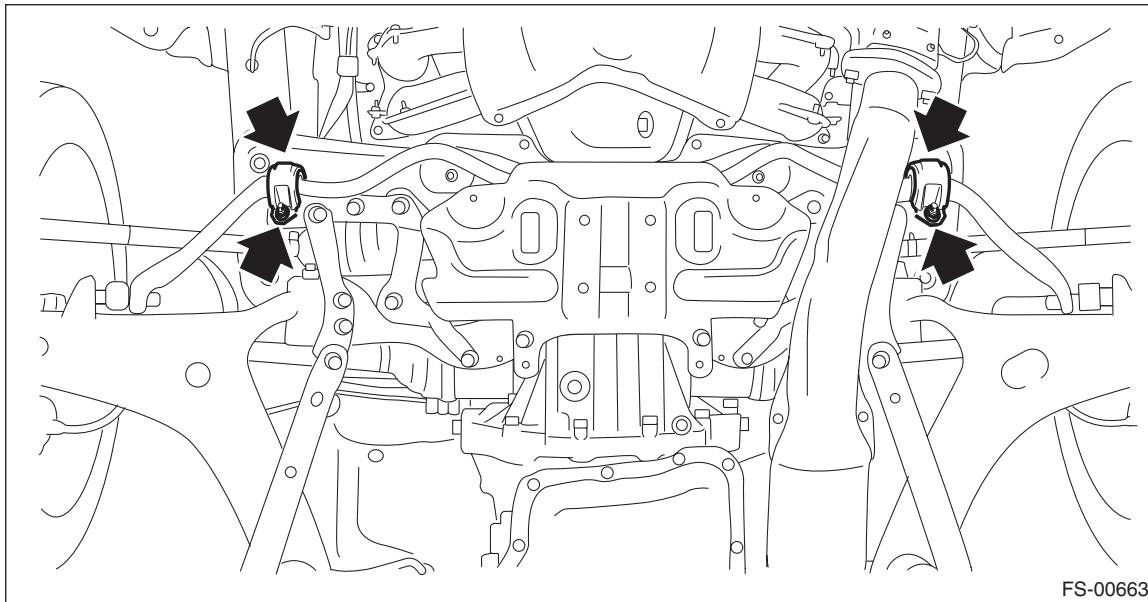


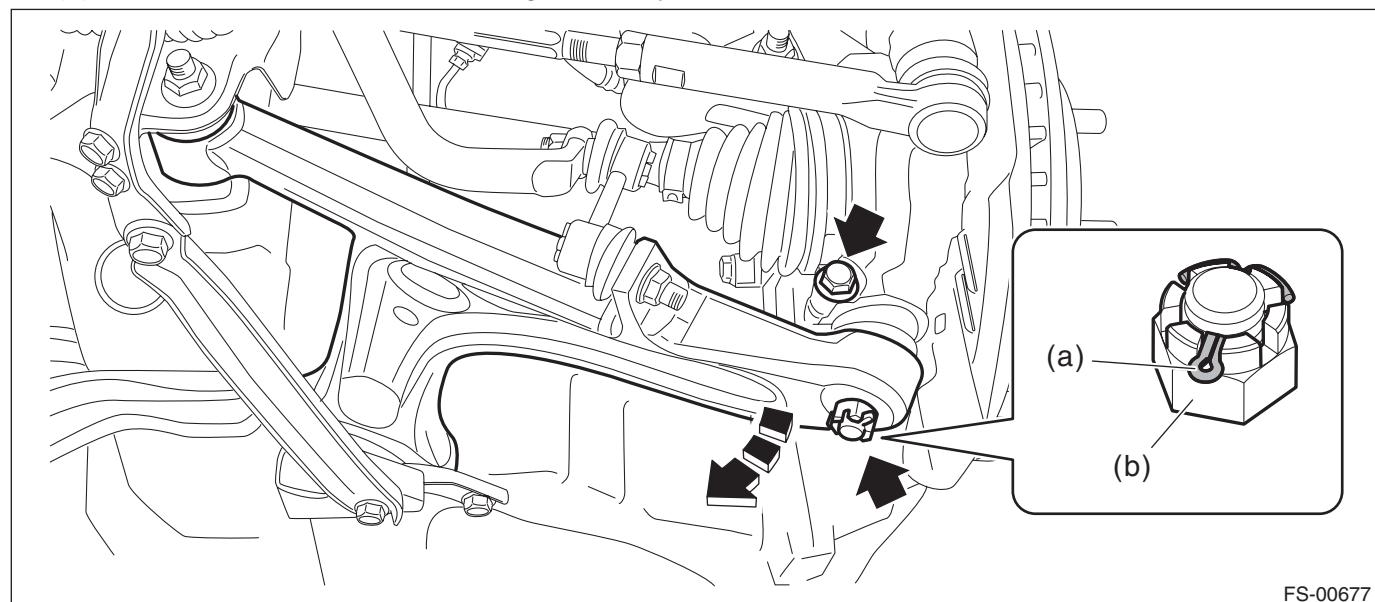
6. Front Ball Joint

A: REMOVAL

- 1) Lift up the vehicle, and then remove the front wheels.
- 2) Remove the under cover - front. <Ref. to EI-21, REMOVAL, Front Under Cover.>
- 3) Remove the clamp - stabilizer bushing on the left and right sides.



- 4) Remove the ball joint assembly.
 - (1) Pull out the cotter pin (a), and remove the castle nut (b).
 - (2) Pull down the front arm assembly, and remove the ball stud.
 - (3) Remove the bolt from the housing assembly - front axle.



- (4) Pull out the ball joint assembly.

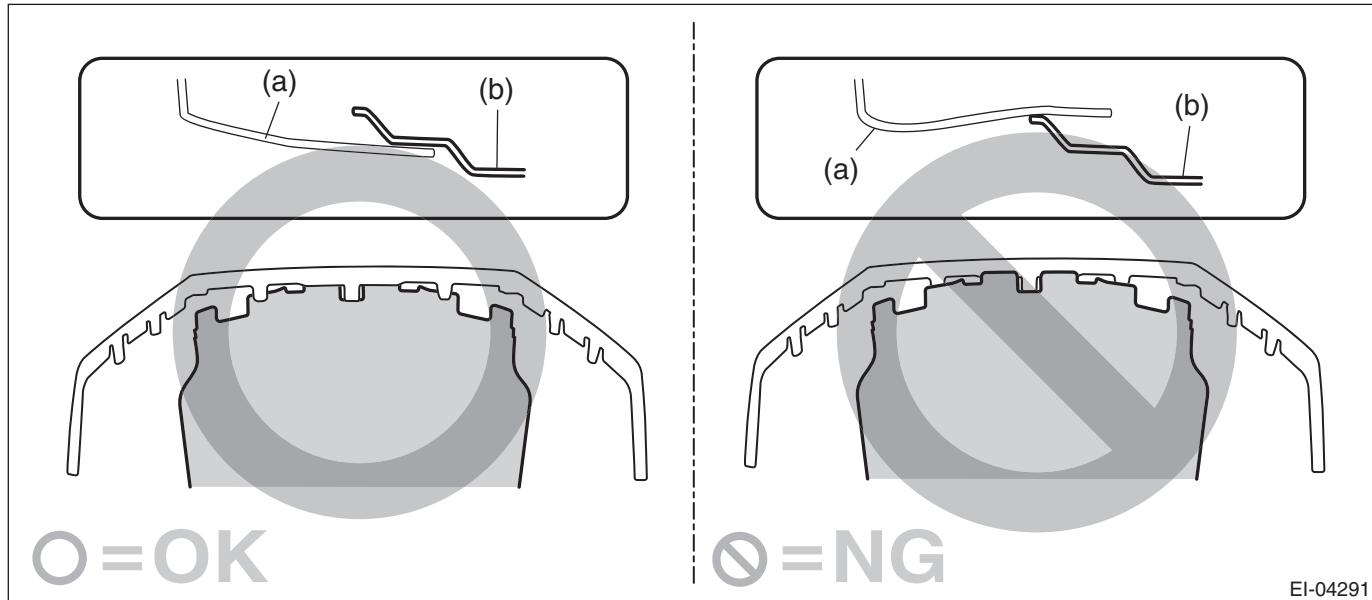
Front Ball Joint

FRONT SUSPENSION

B: INSTALLATION

CAUTION:

- For parts which are not reusable, always use new parts.
- Do not apply grease to the tapered portion of ball stud.
- Install the under cover - front so that the front end of the under cover (b) comes inside the bumper face - front (a).

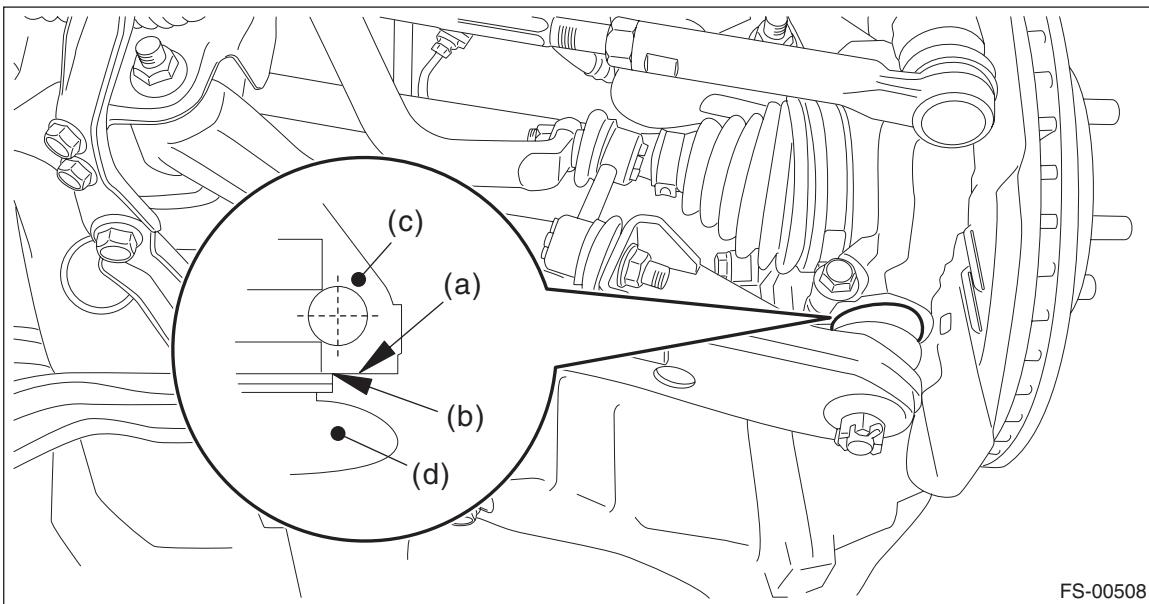


EI-04291

- 1) Install the ball joint assembly.

CAUTION:

Before tightening, make sure the bottom surface of the housing assembly - front axle and the stepped section of ball joint are in contact.



FS-00508

(a) Bottom surface of housing ASSY - front axle (c) Housing ASSY - front axle (d) Ball joint ASSY

(b) Raised section of ball joint

Tightening torque:

50 N·m (5.1 kgf·m, 36.9 ft-lb)

- 2) Connect the ball joint assembly to the front arm assembly.

NOTE:

When tightening the castle nut, tighten the castle nut to the specified torque first, then tighten it further but within 60° until the hole in the ball stud is aligned with a slot in castle nut.

Tightening torque:

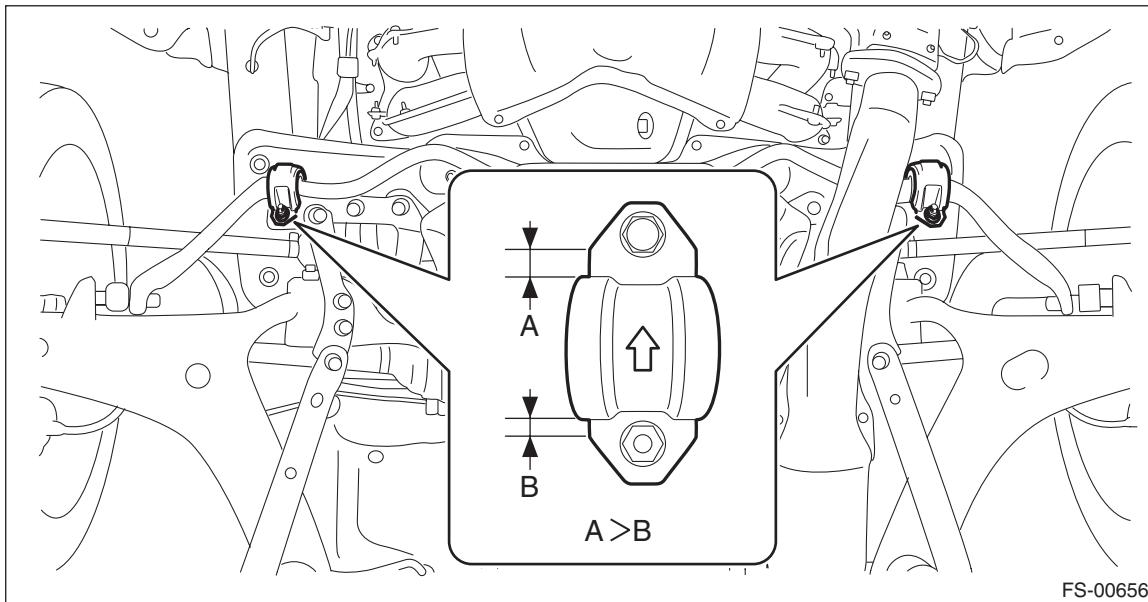
39 N·m (4.0 kgf·m, 28.8 ft-lb)

- 3) Insert a new cotter pin and secure the castle nut.

- 4) Install the clamp - stabilizer bushing.

CAUTION:

Install the clamp - stabilizer bushing with the arrow mark facing the front of the vehicle.



Tightening torque:

25 N·m (2.5 kgf·m, 18.4 ft-lb)

- 5) Install the under cover - front. <Ref. to EI-22, INSTALLATION, Front Under Cover.>

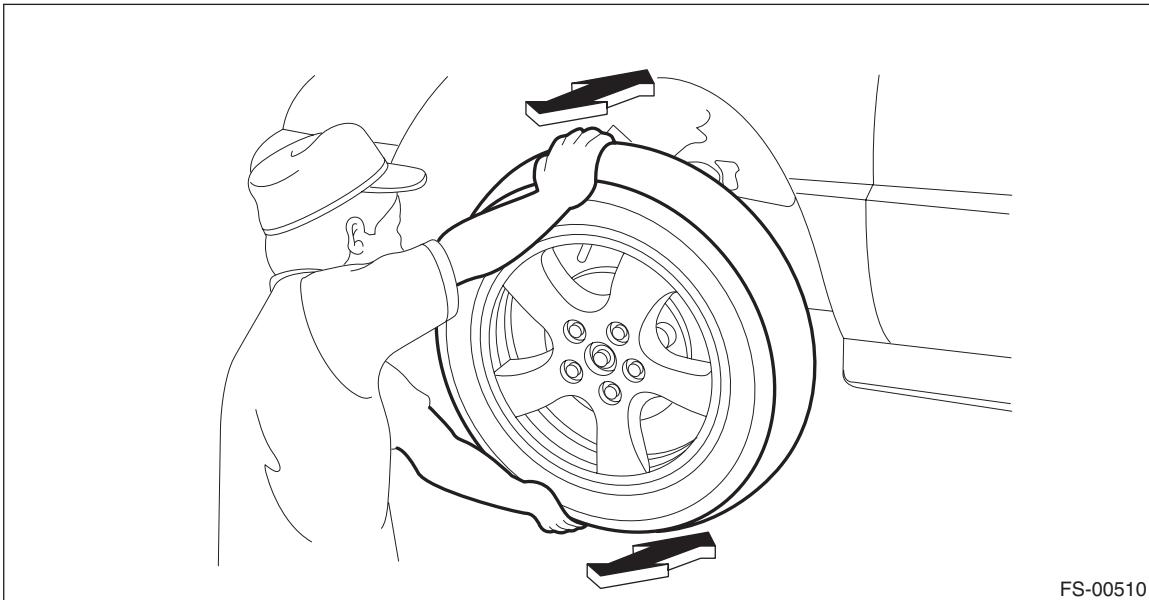
- 6) Install the front wheels.

Tightening torque:

120 N·m (12.2 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 assembly. <Ref. to FS-33, 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 COMPL - front axle. <Ref. to DS-31, INSPECTION, Front Hub Unit Bearing.>
- 3) Replace the ball joint assembly if the dust cover is damaged when visually inspecting the dust cover.