

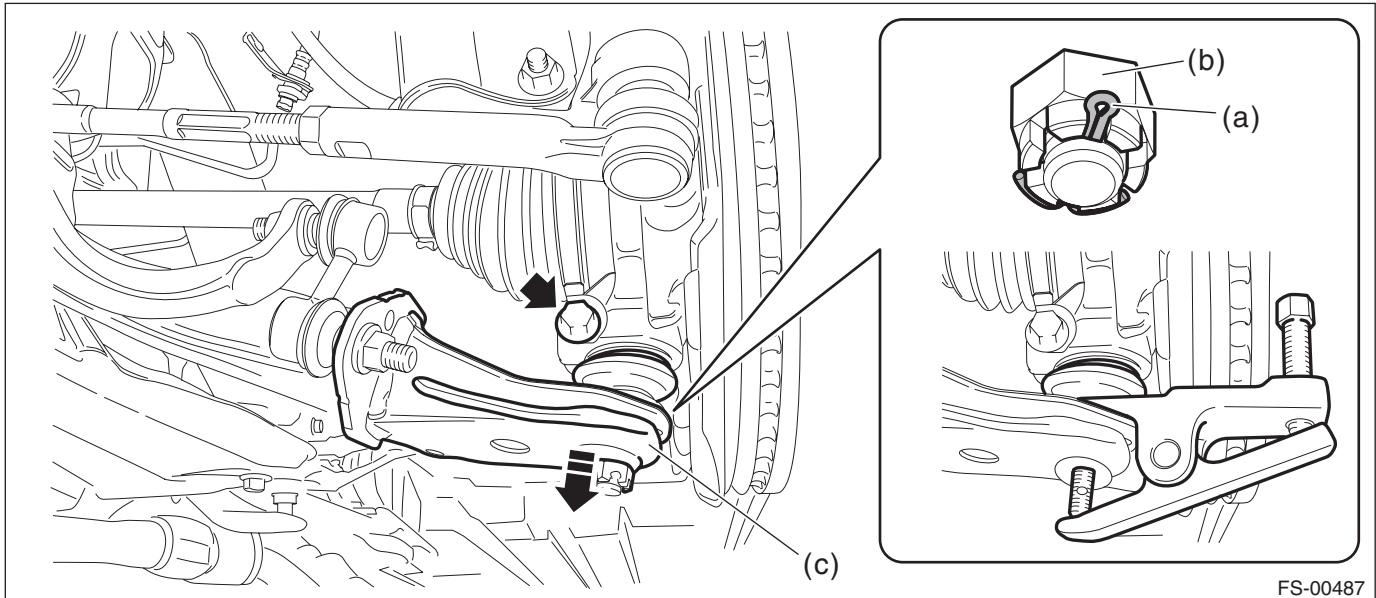
6. Front Arm

A: REMOVAL

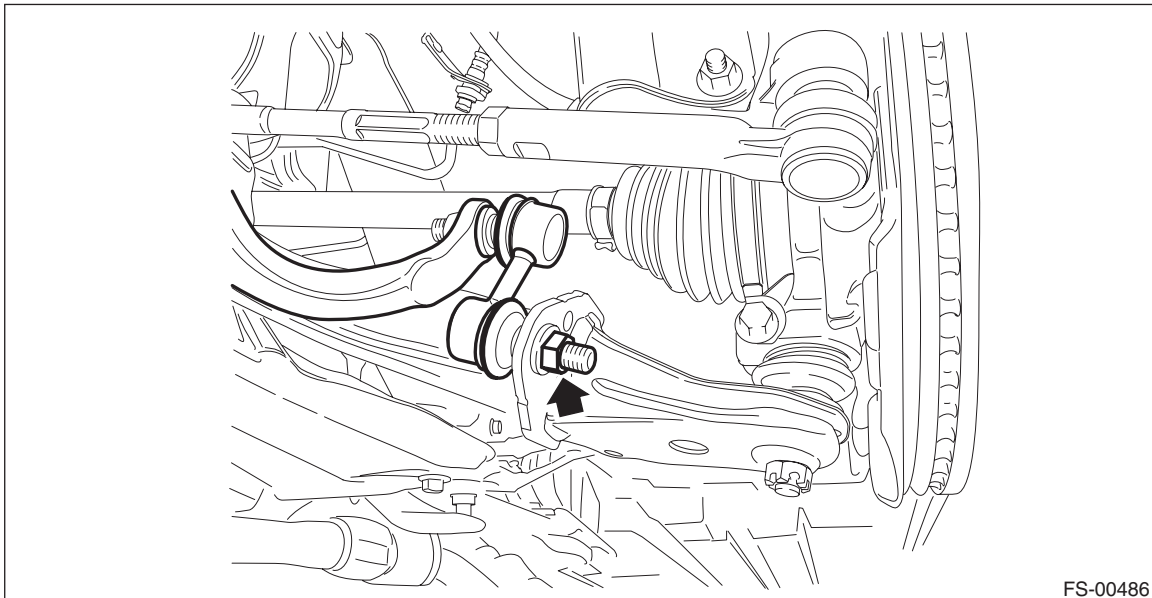
- 1) Lift up the vehicle, and then remove the front wheels.
- 2) Remove the front arm.
 - (1) Pull out the cotter pin (a).
 - (2) Remove the castle nut (b) and bolt.
 - (3) Extract the front arm (c) from the front axle housing.

Preparation tool:

Tie-rod ball joint puller



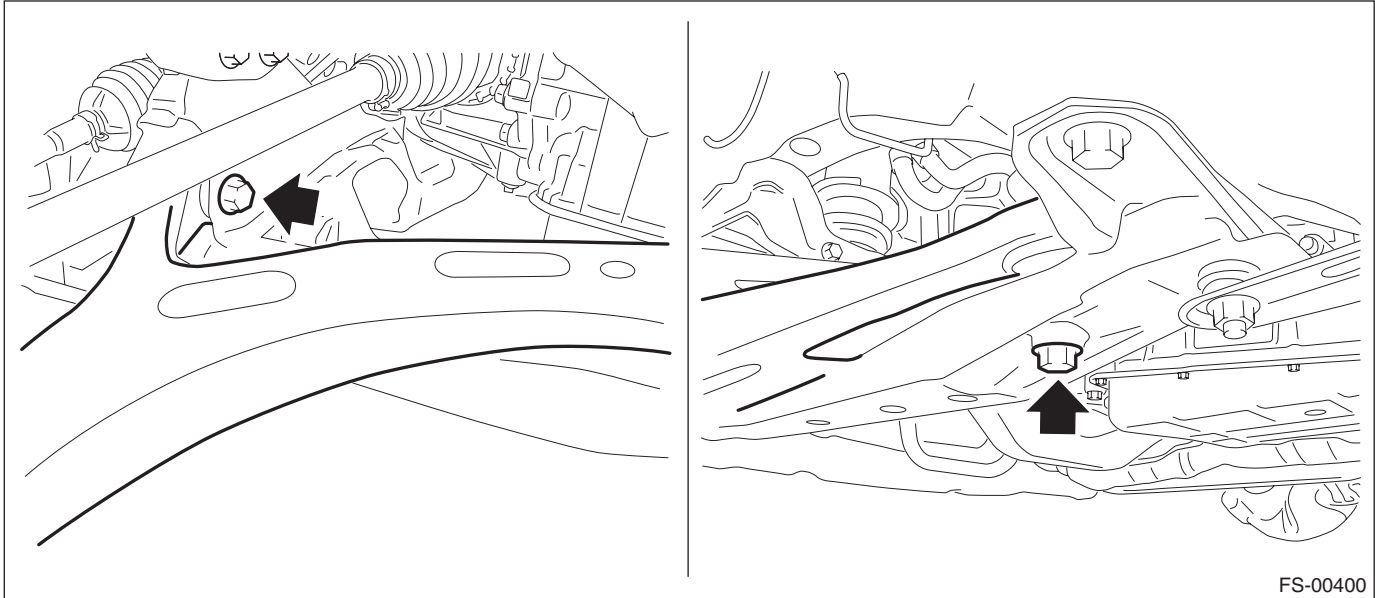
- (4) Remove the nut and disconnect the front stabilizer link.



Front Arm

FRONT SUSPENSION

(5) Remove the bolts, then remove the front arm.



B: INSTALLATION

1) Before installation, inspect the following items and replace any faulty part with a new one.

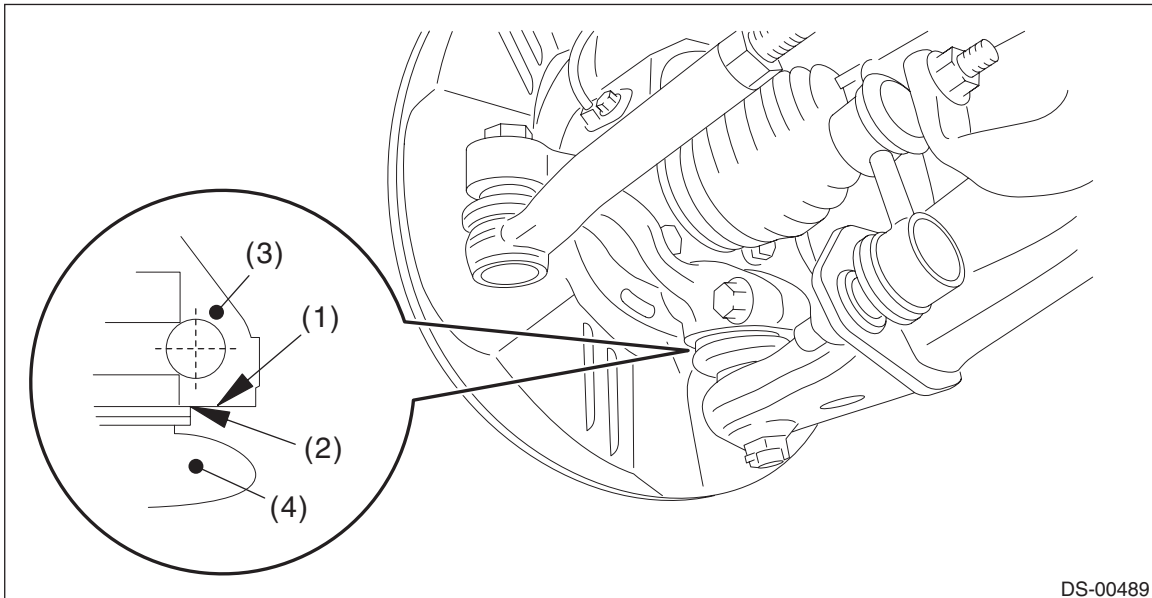
- Check the front arm for damage or cracks, and replace if defective.
- Visually check the bushing for abnormal cracks, fatigue or damage.
- Visually check the boot on the ball joint for damage.

2) Using new self-locking nuts, temporary tighten the front arm.

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

CAUTION:

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
(2) Raised section of ball joint

(3) Front axle housing

(4) Ball joint boot

Tightening torque:

50 N·m (5.1 kgf-m, 36.9 ft-lb)

4) Install the stabilizer link.

Tightening torque:

60 N·m (6.1 kgf-m, 44.3 ft-lb)

5) Install the front wheels.

Tightening torque:

120 N·m (12.24 kgf-m, 88.5 ft-lb)

6) Unload the vehicle from lift, and tighten the bolt which secures the front arm to cradle with wheels in full contact with the ground and the vehicle at curb weight.

Tightening torque:

Front bushing side: 95 N·m (9.7 kgf-m, 70.1 ft-lb)

Rear bushing side: 140 N·m (14.3 kgf-m, 103.3 ft-lb)

7) Inspect the wheel alignment and adjust if necessary. <Ref. to FS-13, ADJUSTMENT, Wheel Alignment.>

CAUTION:

When the wheel alignment has been adjusted, perform the 0 point setting mode for each sensor in the VDCCM&H/U. <Ref. to VDC-20, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

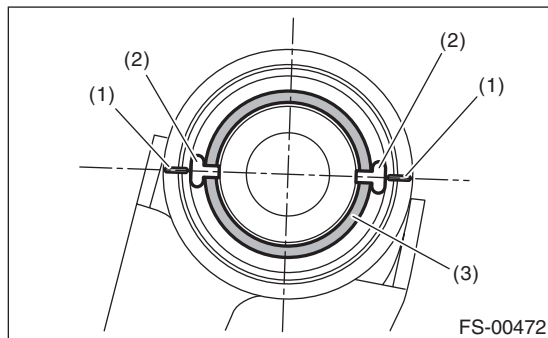
C: DISASSEMBLY

1. FRONT BUSHING

1) Put an alignment mark on the front arm based on the gap of bushing intermediate plate for front bushing.

CAUTION:

Always put an alignment mark for aligning the position on bushing installation.



- (1) Put an alignment mark.
- (2) Gap of bushing intermediate plate
- (3) Bushing intermediate plate

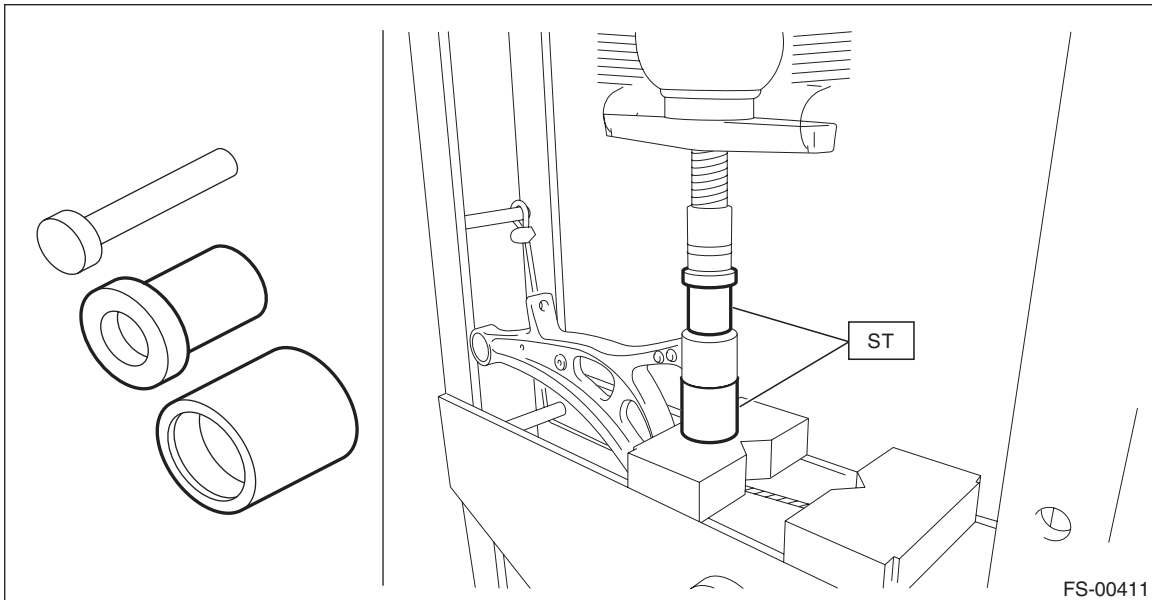
Front Arm

FRONT SUSPENSION

2) Using the ST and a press, remove the front bushing.

PREPARATION TOOL:

ST: INSTALLER & REMOVER SET (927680000)

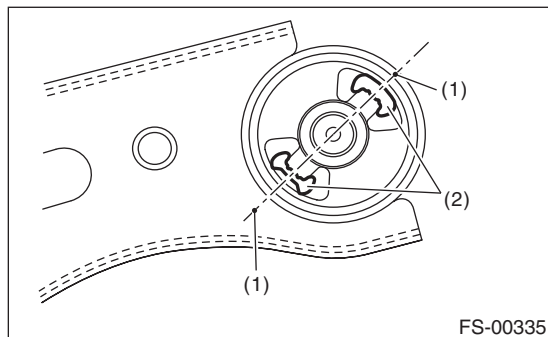


2. REAR BUSHING

1) Put an alignment mark on the front arm based on the center of rear bushing recess portion.

CAUTION:

Always put an alignment mark for aligning the position on bushing installation.



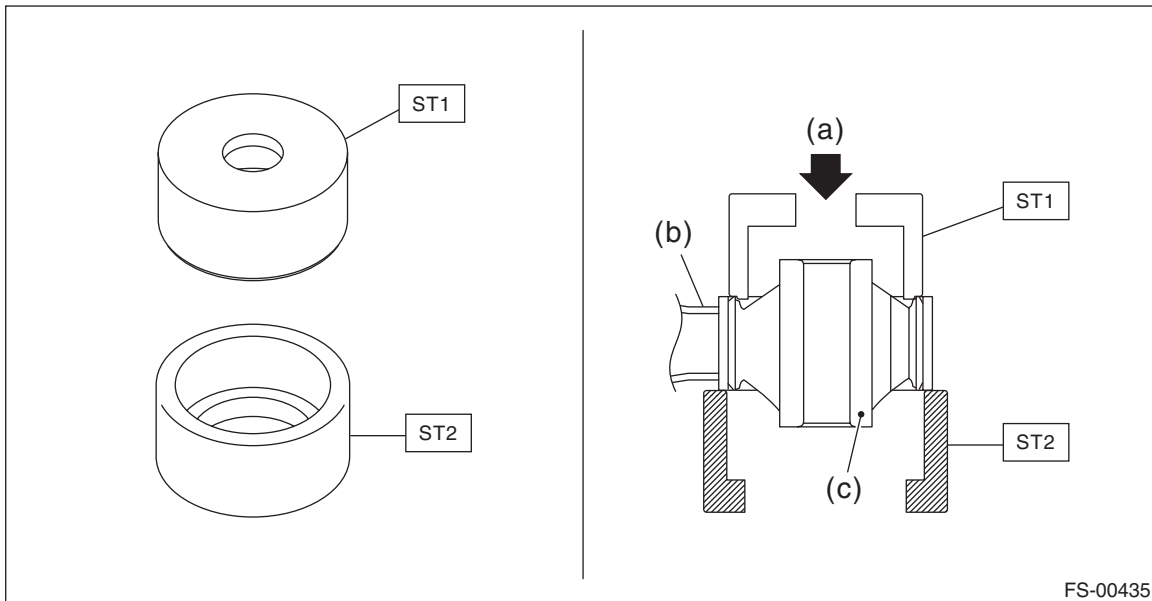
- (1) Put an alignment mark.
- (2) Recess section

2) Using the ST and a press, remove the rear bushing.

PREPARATION TOOL:

ST1: REMOVER (20299AG000)

ST2: BASE (20299AG010)



FS-00435

(a) Press

(b) Front arm

(c) Rear bushing

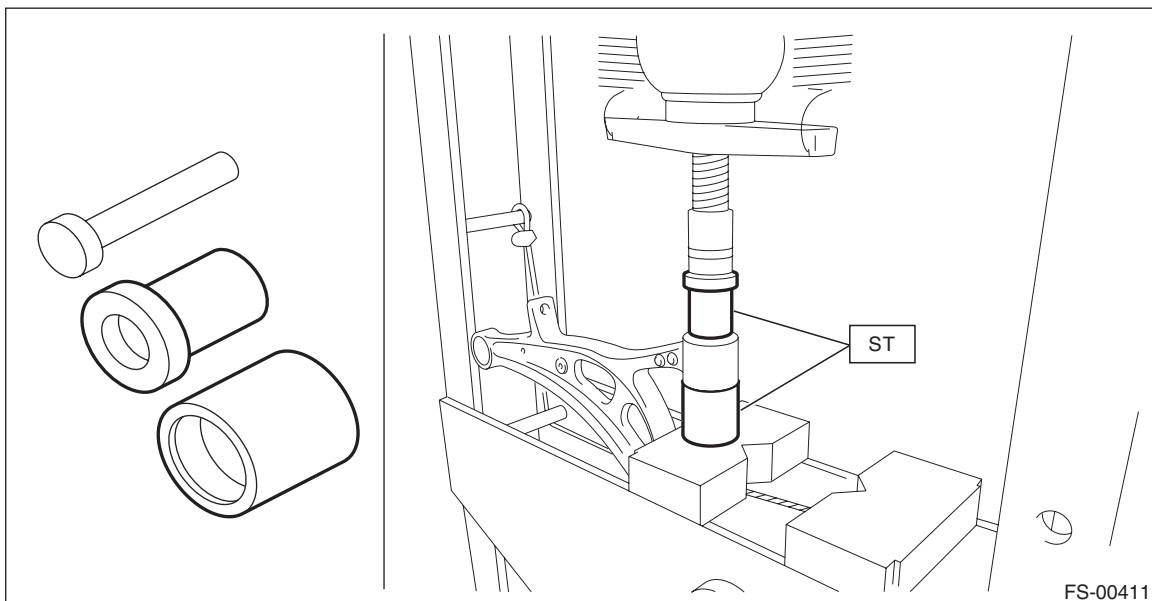
D: ASSEMBLY

1. FRONT BUSHING

- 1) Before assembly, inspect the following items and replace any faulty part with a new one.
 - Check the front arm for damage or cracks, and replace if defective.
 - Visually check the bushing for abnormal cracks, fatigue or damage.
 - Visually check the boot on the ball joint for damage.
- 2) Align the gap of bushing intermediate plate for front bushing with the alignment mark of the front arm.
- 3) Using the ST and a press, install the front bushing.

Preparation tool:

ST: INSTALLER & REMOVER SET (927680000)



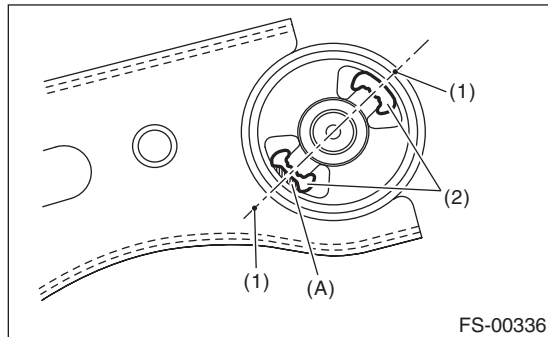
FS-00411

2. REAR BUSHING

1) Before installation, inspect the following items and replace any faulty part with a new one.

- Check the front arm for damage or cracks, and replace if defective.
- Visually check the bushing for abnormal cracks, fatigue or damage.
- Visually check the dust cover on the ball joint for damage.

2) Align the center of recess portion with the alignment mark on the front arm, with the protrusion (A) of recess portion facing the front side of vehicle.



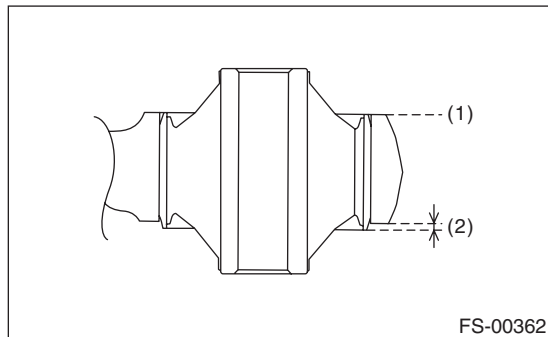
(1) Alignment mark

(2) Recess section

3) Using the ST and a press, install the rear bushing.

CAUTION:

Align the upper face of front arm and the end of bushing during installation.



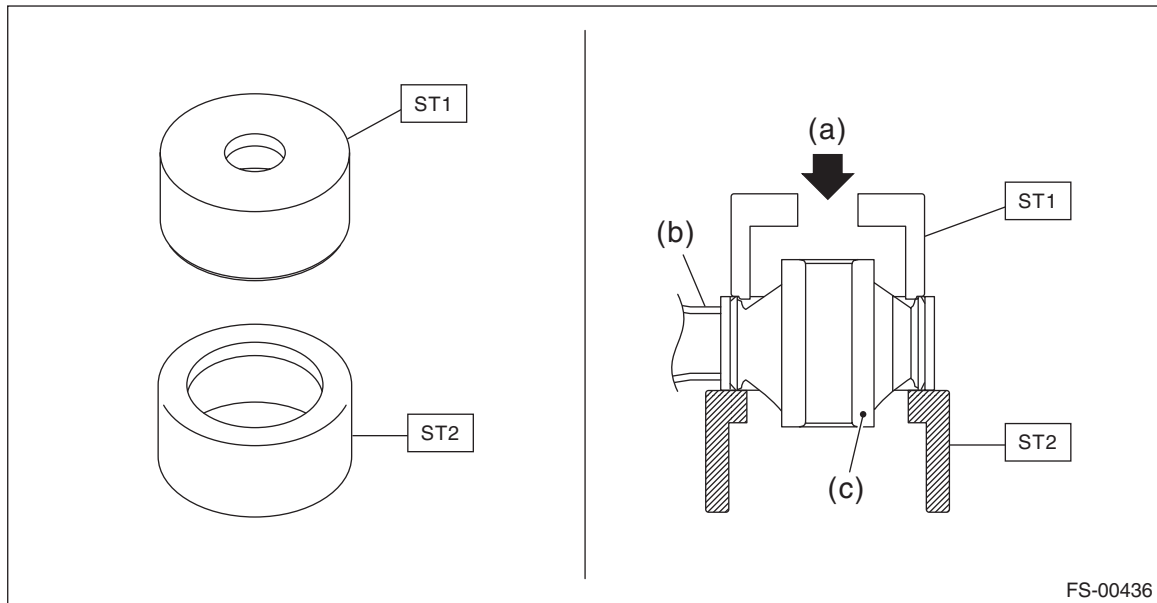
(1) Aligned

(2) Not aligned

PREPARATION TOOL:

ST1: REMOVER (20299AG000)

ST2: BASE (20299AG010)



(a) Press

(b) Front arm

(c) Rear bushing