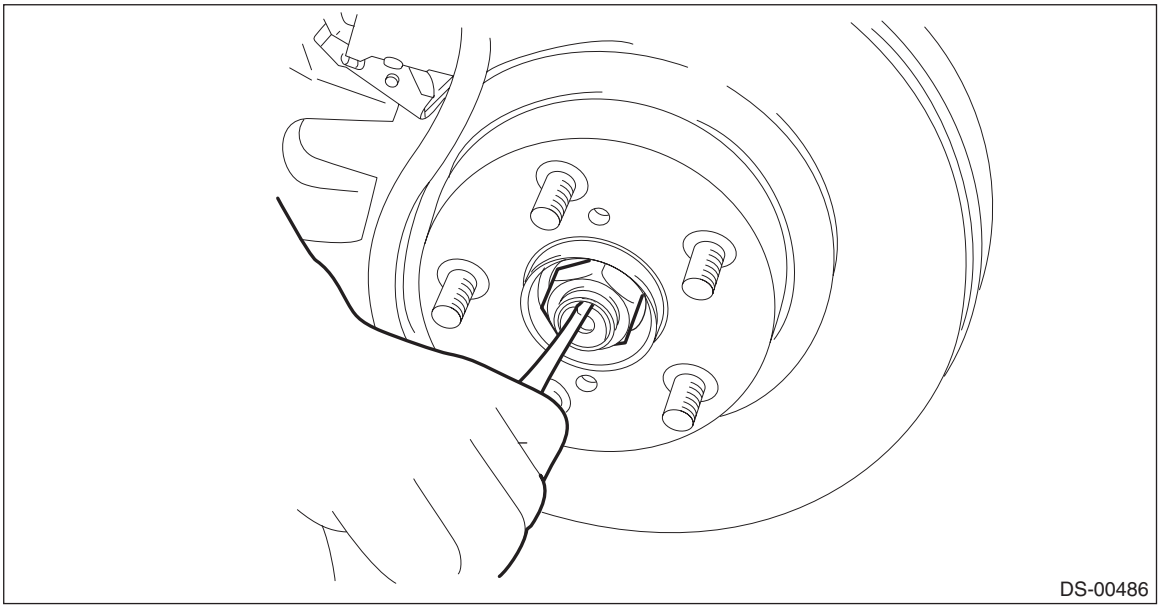
6. Rear Hub Unit Bearing

A: REMOVAL

1) Lift up the vehicle, and then remove the rear wheels.
2) Remove the nut - axle.

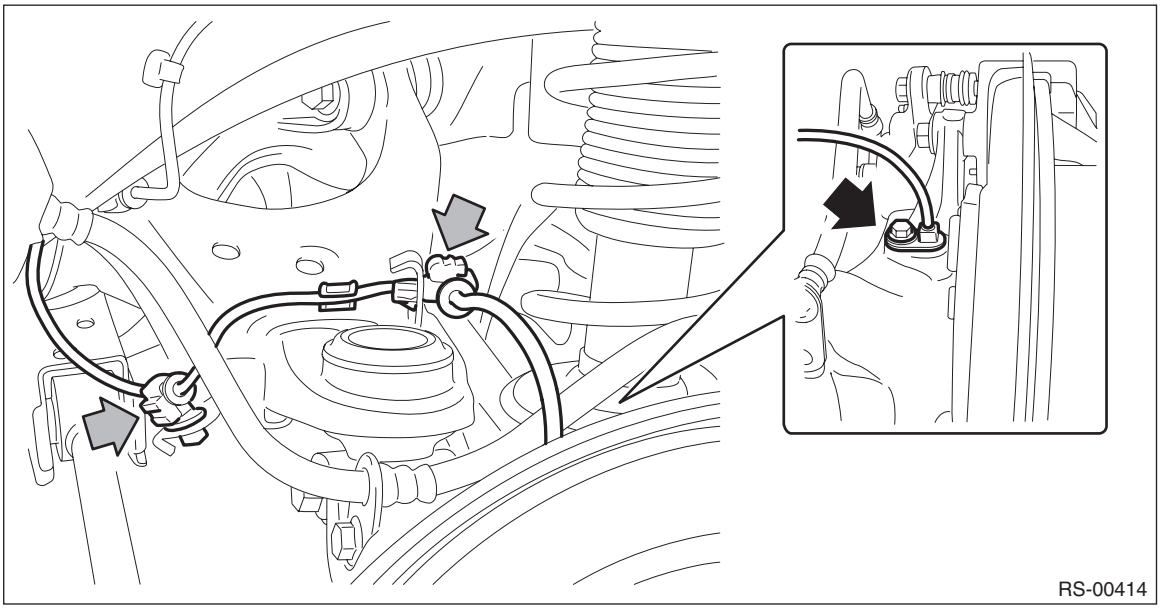
CAUTION:
Do not loosen the nut - axle while the rear axle is loaded. Doing so may damage the hub unit COMPL.

(1) Lift the crimped section of the nut - axle.
(2) Remove the nut - axle using a socket wrench while depressing the brake pedal.


DS-00486

3) Remove the rear ABS wheel speed sensor.
(1) Remove the bolts, and remove the rear ABS wheel speed sensor.
(2) Remove the rear ABS wheel speed sensor harness from the upper arm.

CAUTION:
- **Be careful not to damage the sensor.**
- **Do not apply excessive force to the sensor harness.**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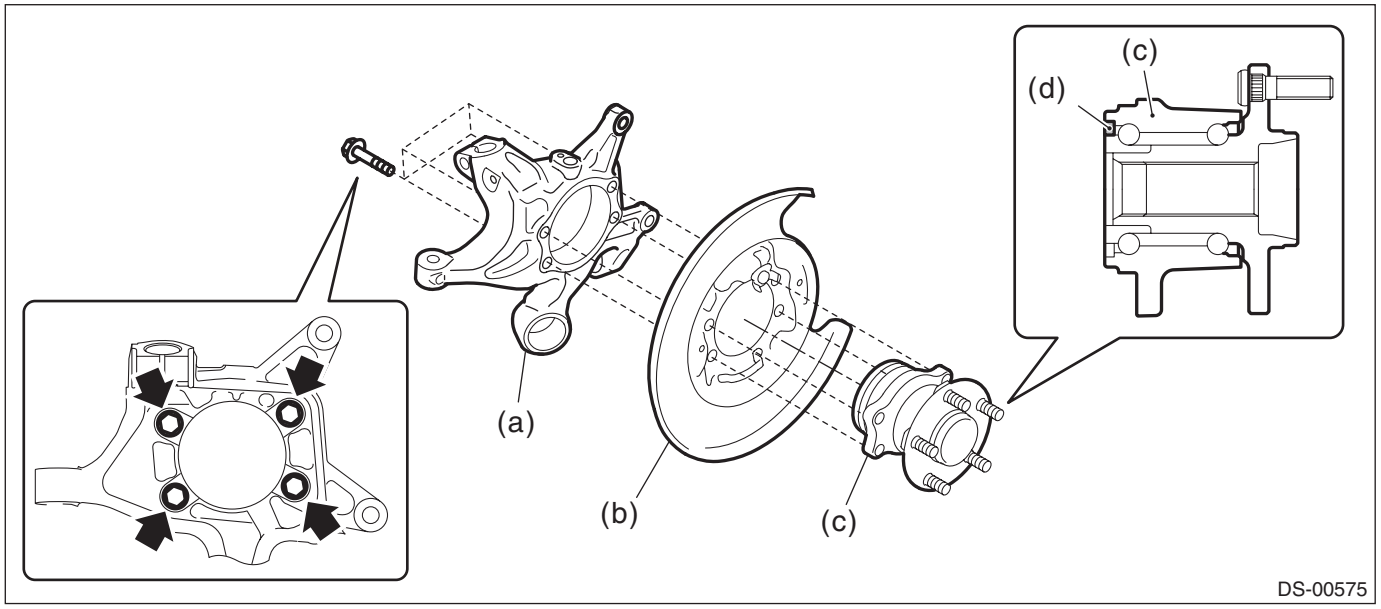
4) Remove the disc brake assembly. <Ref. to BR-43, REMOVAL, Rear Disc Brake Assembly.>
5) Remove the rear disc rotor. <Ref. to BR-39, REMOVAL, Rear Disc Rotor.>
6) Remove the hub unit COMPL - rear axle.

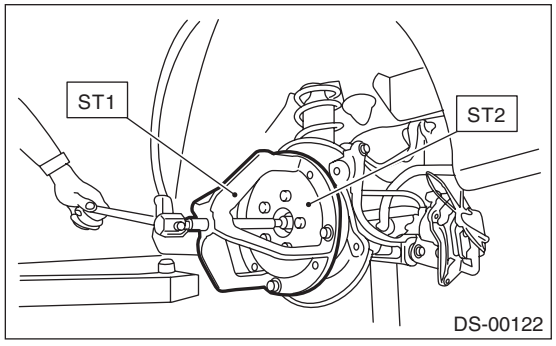
CAUTION:
- **Be careful not to damage the magnetic encoder.**
- **Do not get closer the tool which charged magnetism to magnetic encoder.**



(a) Housing ASSY - rear axle
(b) Back plate - rear brake
(c) Hub unit COMPL - rear axle
(d) Magnetic encoder

NOTE:
If it is hard to remove, use the ST.

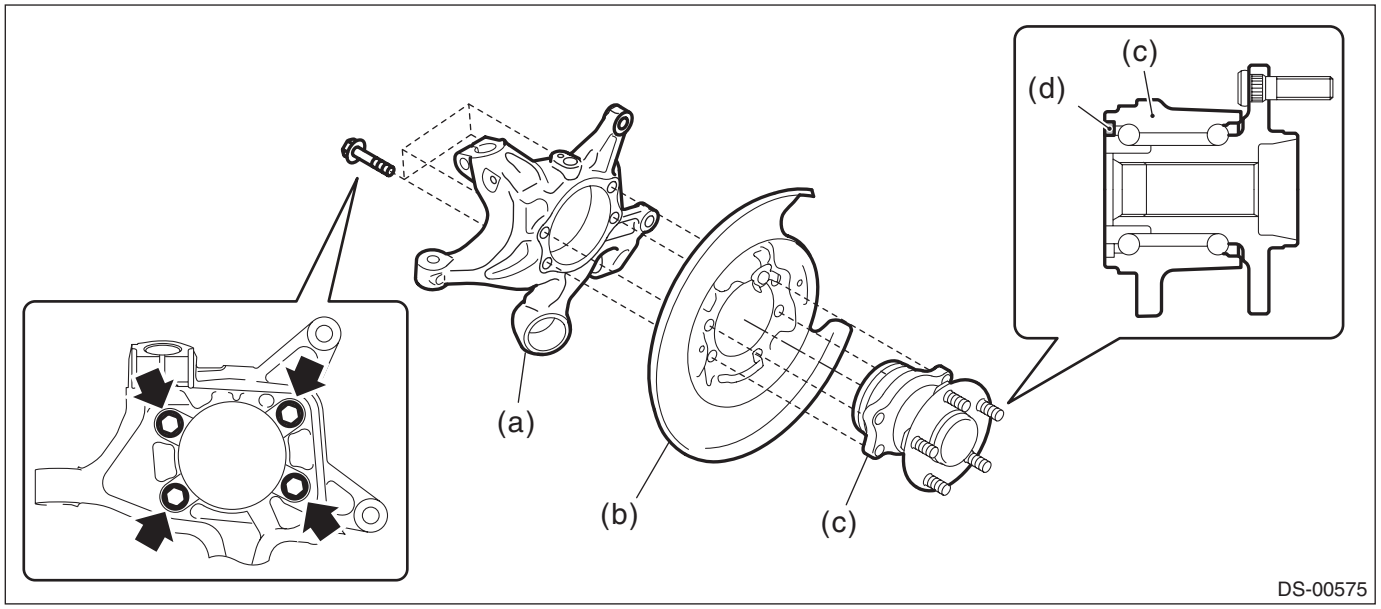
Preparation tool:
ST1: AXLE SHAFT PULLER (926470000)
ST2: AXLE SHAFT PULLER PLATE (28099PA110)



B: INSTALLATION

1) Place the back plate - rear brake between the housing assembly - rear axle and the hub unit COMPL - rear axle, and tighten the bolt.

CAUTION:
- **Do not get closer the tool which charged magnetism to magnetic encoder.**
- **Be careful not to damage the magnetic encoder.**



(a) Housing ASSY - rear axle
(b) Back plate - rear brake
(c) Hub unit COMPL - rear axle
(d) Magnetic encoder

Tightening torque:
65 N·m (6.6 kgf-m, 47.9 ft-lb)

2) Install the rear drive shaft assembly.

CAUTION:
Do not hammer the drive shaft assembly when installing.
(1) Insert the drive shaft assembly into the hub spline, and pull it into the specified position.
(2) Tighten the new nut - axle temporarily.

3) Install the disc rotor to the hub unit COMPL - rear axle.
4) Install the caliper body assembly to the housing assembly - rear axle.

Tightening torque:
STI model: 65 N·m (6.6 kgf-m, 47.9 ft-lb)
Except for STI model: 66 N·m (6.7 kgf-m, 48.7 ft-lb)

5) Install the brake hose bracket.

Tightening torque:
33 N·m (3.4 kgf-m, 24.3 ft-lb)

6) Install the rear ABS wheel speed sensor.

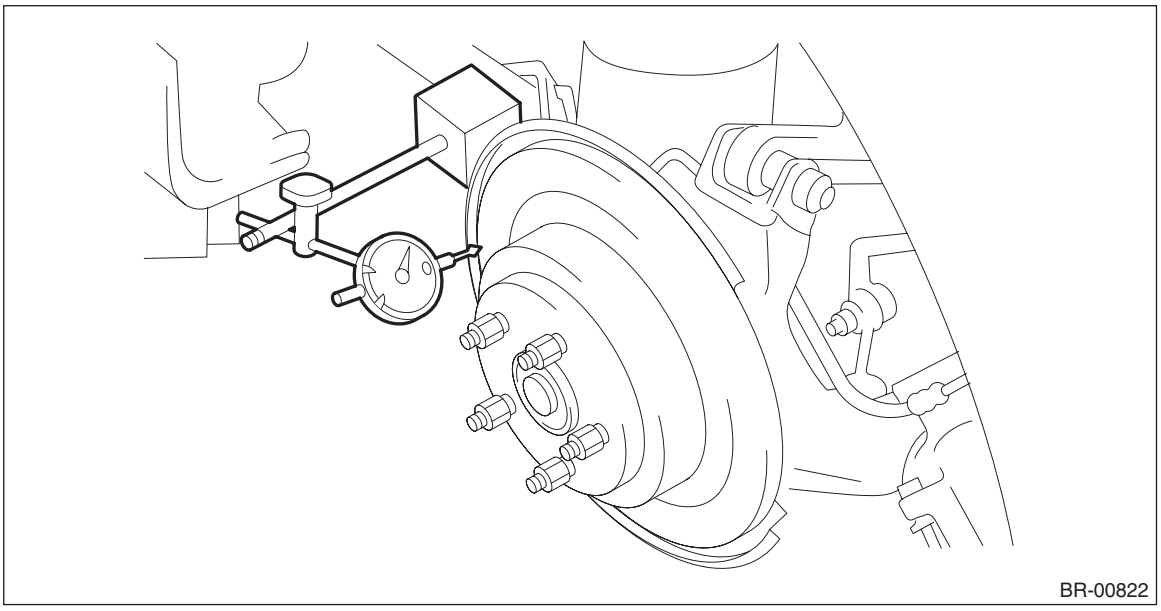
Tightening torque:
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

7) While depressing the brake pedal, tighten new nuts - axle to the specified torque.

CAUTION:
Do not load the rear axle before tightening the nut - axle. Doing so may damage the hub unit COMPL.

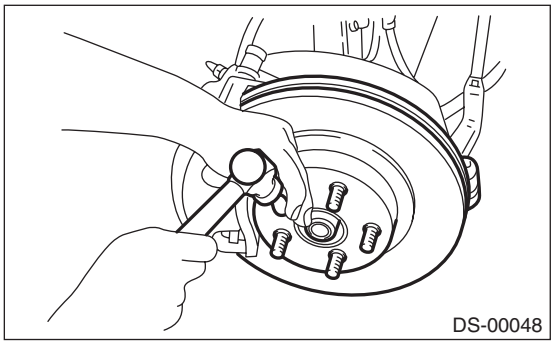
Tightening torque:
190 N·m (19.4 kgf-m, 140.1 ft-lb)

8) Inspect the lean of axis direction using a dial gauge. Replace the hub unit COMPL - rear axle if the play exceeds the limit.



Service limit:
Maximum: 0.05 mm (0.0020 in)

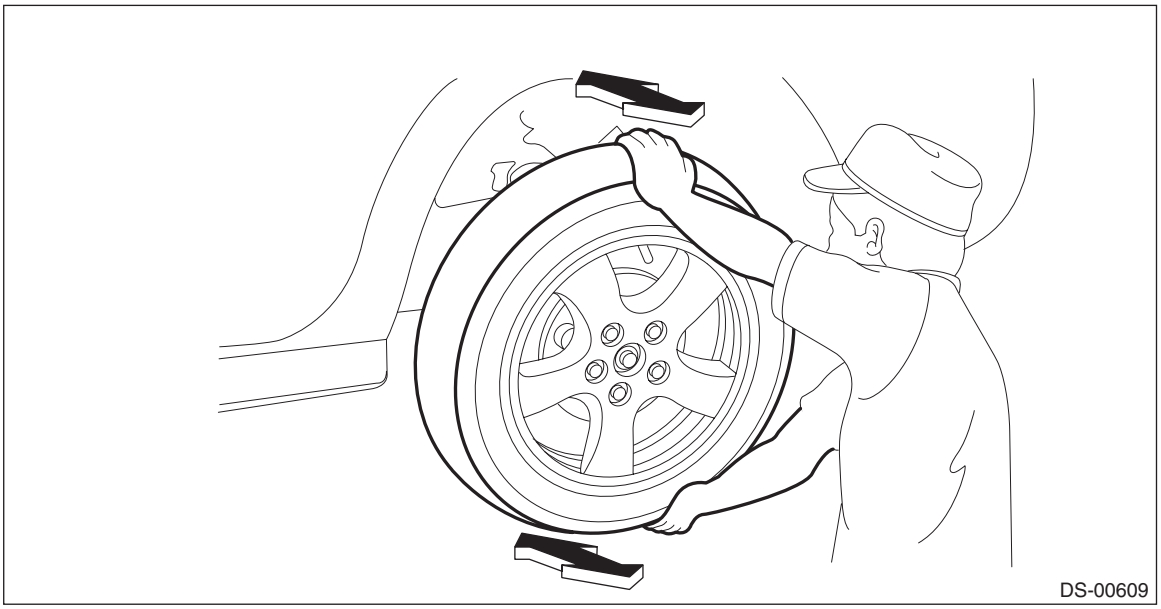
9) After tightening the nut - axle, lock it securely.



10) Install the rear wheels, and perform the following inspections.

Tightening torque:
120 N·m (12.2 kgf-m, 88.5 ft-lb)

1. Check the wheels for smooth rotation.
2. Check that there is no play by moving the upper and lower portions of rear tire in an axial direction with the brake pedal released.



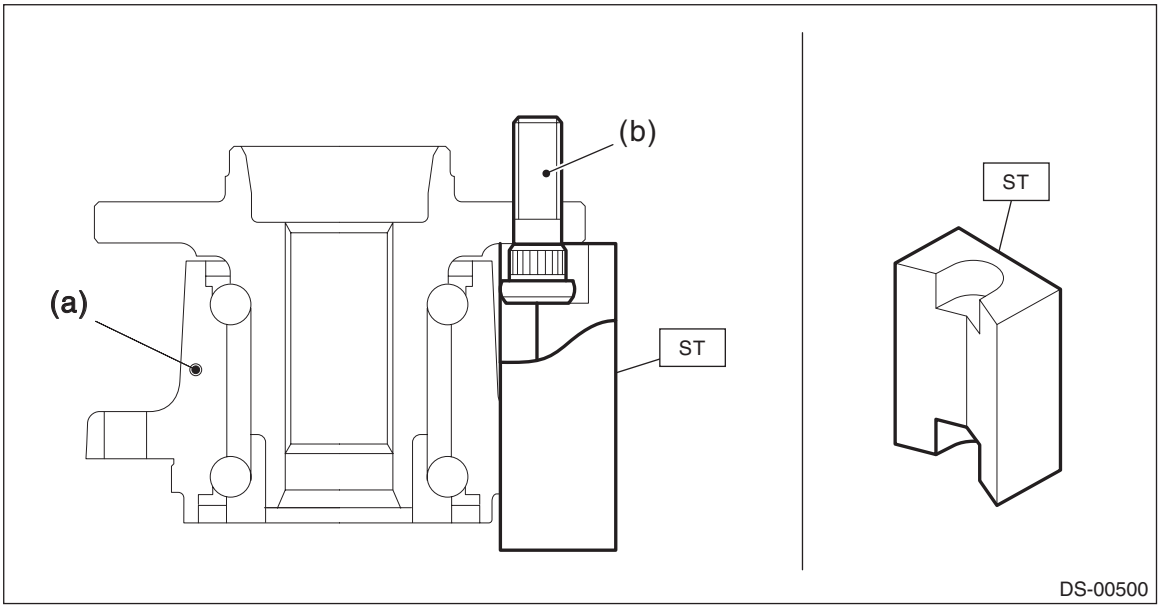
- **Play exists** → Check the hub unit COMPL - rear axle. <Ref. to DS-47, INSPECTION, Rear Hub Unit Bearing.>

C: DISASSEMBLY

Using the ST or a hydraulic press, push out the bolt - hub (b) from the hub unit COMPL - rear axle (a).

CAUTION:
- **Be careful not to hammer the bolts - hub. This may deform the hub unit COMPL.**
- **Do not reuse the bolt - hub.**

Preparation tool:
ST: HUB STAND (28399AG000)

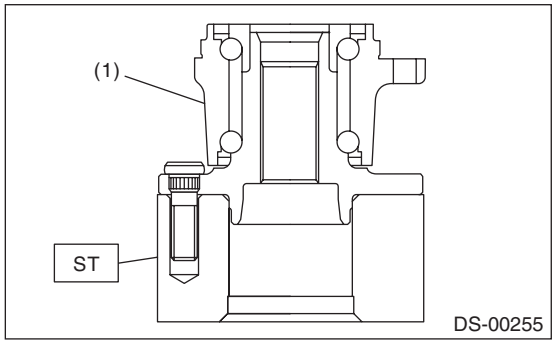


NOTE:
Since the hub unit COMPL - rear axle cannot be disassembled, only bolts - hub can be removed.

D: ASSEMBLY

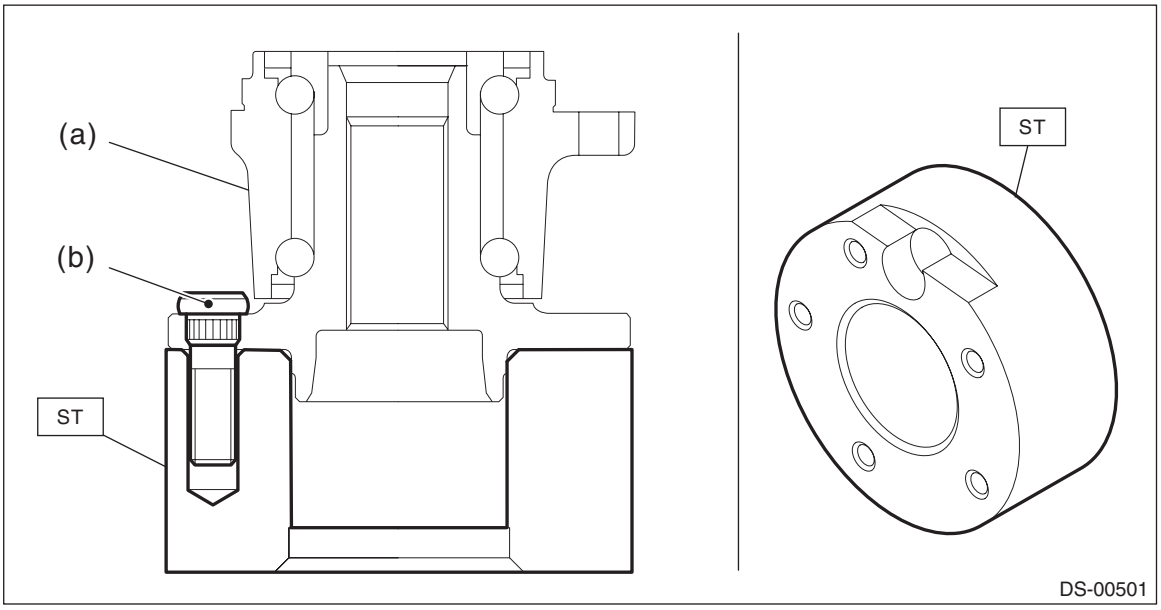
1) Install the hub unit COMPL - rear axle to the ST securely.

Preparation tool:
ST: HUB STAND (28099PA080)



(1) Hub unit COMPL - rear axle

2) Using a press, press new bolts - hub (b) until their seating surfaces contact the hub unit COMPL - rear axle (a).

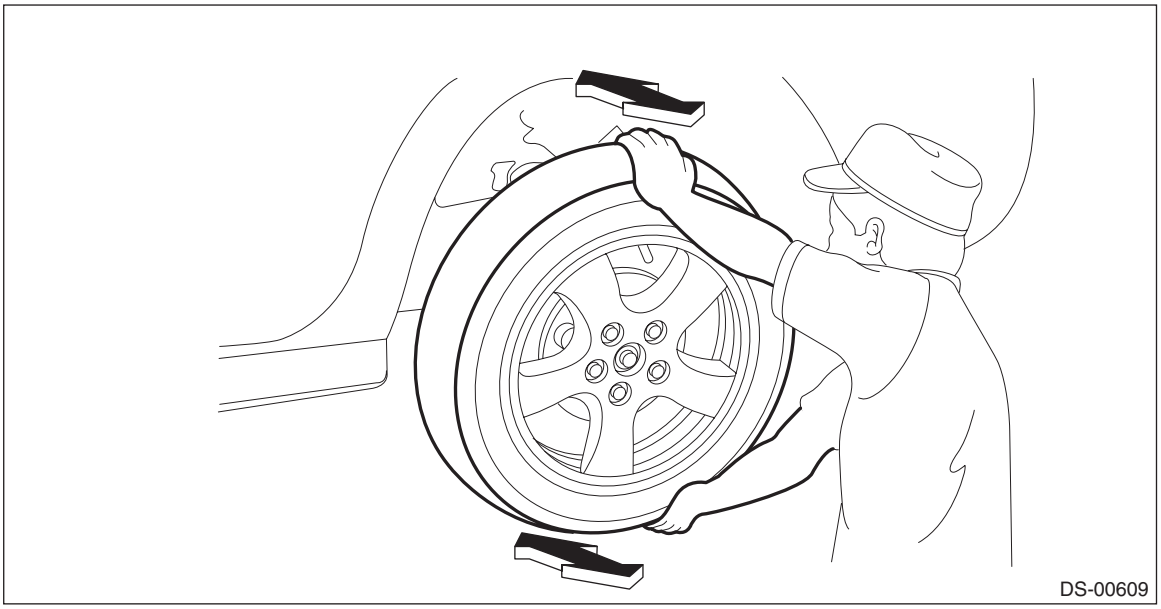


NOTE:
Use the 12 mm (0.47 in) dia. holes in the HUB STAND to prevent bolts from tilting.

E: INSPECTION

1) Moving the rear tire up and down by hand, check there is no backlash in bearing, and check the wheel rotates smoothly.

CAUTION:
If there is any fault in the bearing, replace the hub unit COMPL - rear axle.



2) Inspect the lean of axis direction using a dial gauge. Replace the hub unit COMPL - rear axle if the play exceeds the limit.

Service limit:
Maximum: 0.05 mm (0.0020 in)