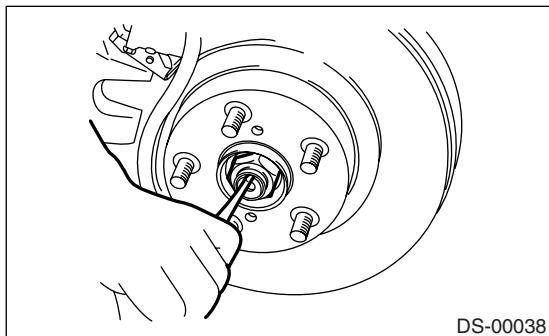


## 6. Rear Hub Unit Bearing

### A: REMOVAL

- 1) Disconnect the ground cable from the battery.
- 2) Lift-up the vehicle, and then remove the rear wheels.
- 3) Lift the crimped section of axle nut.



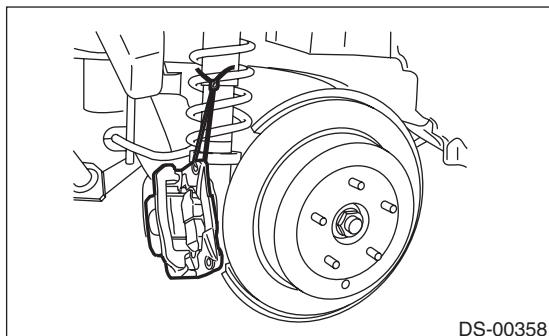
DS-00038

- 4) Remove the axle nut using a socket wrench while depressing the brake pedal.

**CAUTION:**

**Remove the wheel before loosening the axle nut. Failure to follow this rule may damage the wheel bearings.**

- 5) Release the parking brake.
- 6) Remove the disc brake caliper from the rear housing, and suspend it from the vehicle using a piece of rope.



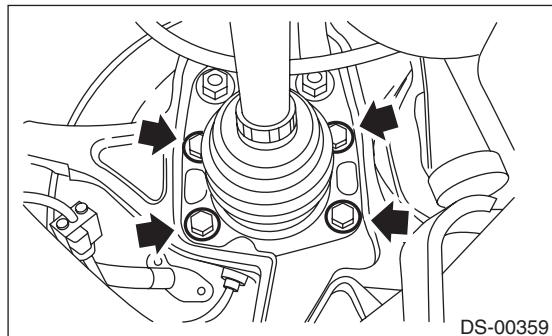
DS-00358

- 7) Remove the disc rotor from the hub.

**NOTE:**

- Mark the mating surface of hub and disc rotor before removing the disc rotor to avoid confusing when installing.
- If it is difficult to remove the disc rotor from the hub, drive the 8 mm of bolt into the threaded end of rotor, then remove the rotor.

- 8) Remove the four bolts from rear arm.

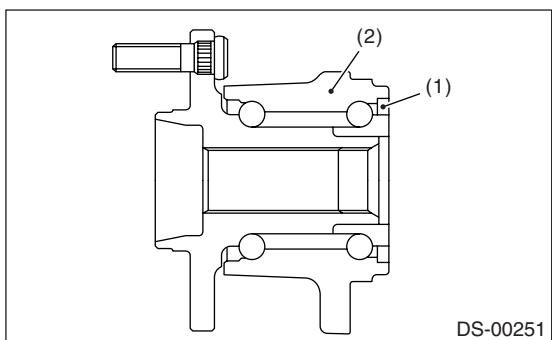


DS-00359

- 9) Remove the hub unit bearing.

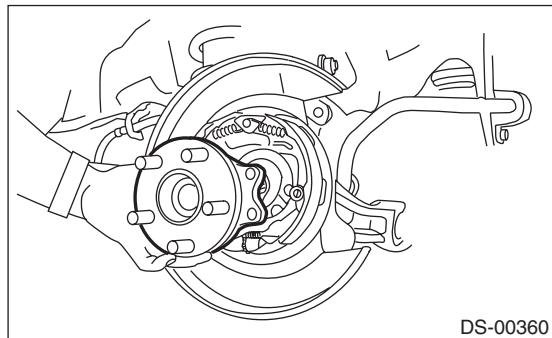
**CAUTION:**

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



DS-00251

(1) Magnetic encoder  
(2) Rear hub unit bearing



DS-00360

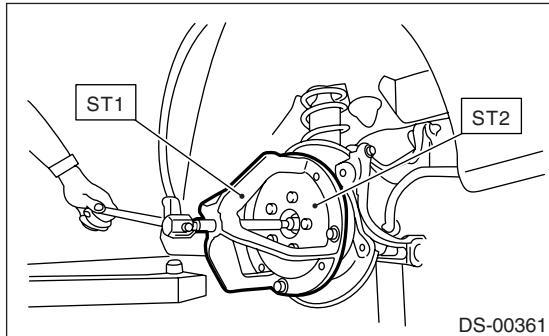
# Rear Hub Unit Bearing

## DRIVE SHAFT SYSTEM

### NOTE:

If it is hard to remove, use the ST.

ST1 926470000 AXLE SHAFT PULLER  
ST2 28099PA110 AXLE SHAFT PULLER PLATE



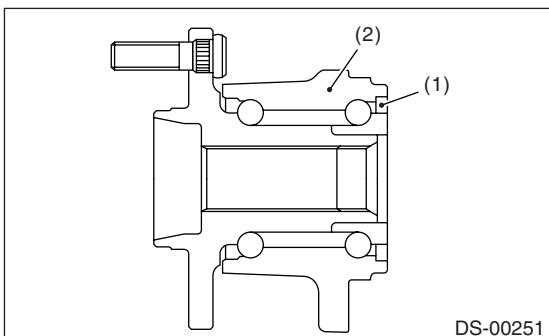
DS-00361

## B: INSTALLATION

1) Aligning the hub unit bearing to the mounting hole of the back plate, install the hub unit assembly and back plate. Tighten the axle nut temporarily.

### CAUTION:

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



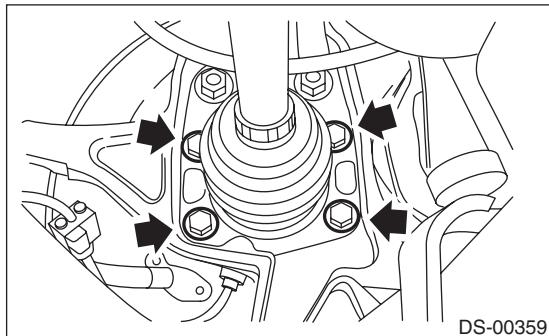
DS-00251

- (1) Magnetic encoder
- (2) Rear hub unit bearing

2) Tighten the four bolts to the back plate.

### Tightening torque:

65 N·m (6.6 kgf·m, 47.9 ft·lb)



DS-00359

3) Remove the axle nut.

- 4) Draw the rear drive shaft into specified position.
- 5) Tighten the new axle nut temporarily.

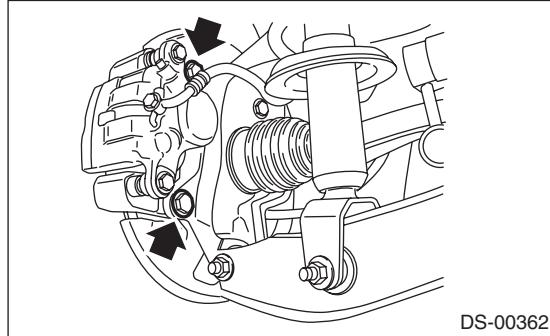
### CAUTION:

Use a new axle nut (olive color).

- 6) Install the disc rotor to hub.
- 7) Install the disc brake caliper on the rear housing.

### Tightening torque:

60 N·m (6.1 kgf·m, 44.3 ft·lb)



DS-00362

8) Adjust the parking brake lever stroke by turning the adjuster. <Ref. to PB-4, ADJUSTMENT, Parking Brake Pedal. >

9) While applying the parking brake and depressing the brake pedal, tighten a new axle nut (olive color) to the specified torque and lock it securely.

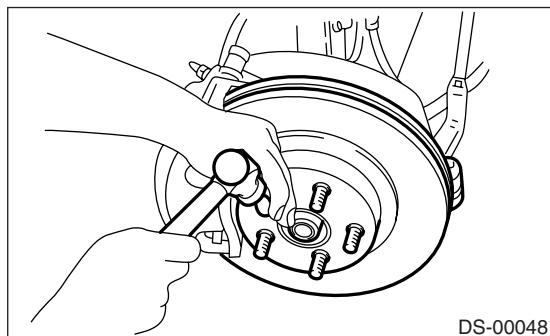
### Tightening torque:

240 N·m (24.5 kgf·m, 177 ft·lb)

### CAUTION:

- Install the wheel after installation of axle nut. Failure to follow this rule may damage the wheel bearing.
- Be sure to tighten the axle nut to specified torque. Do not overtighten it as this may damage the wheel bearing.

10) After tightening the axle nut, lock it securely.



DS-00048

11) Install the wheel and tighten the wheel nuts to specified torque.

### Tightening torque:

110 N·m (11.2 kgf·m, 81.1 ft·lb)

### C: DISASSEMBLY

Using the ST and a hydraulic press, push out the hub bolts.

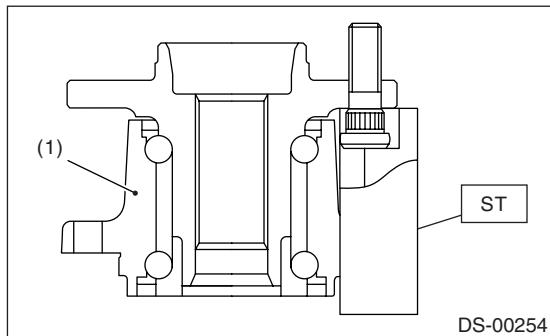
ST 28399AG000 HUB STAND

#### CAUTION:

- Be careful not to hammer the hub bolts. This may deform the hub.
- Do not reuse the hub bolt.

#### NOTE:

Since the hub unit bearing can not be disassembled, only hub bolts can be removed.

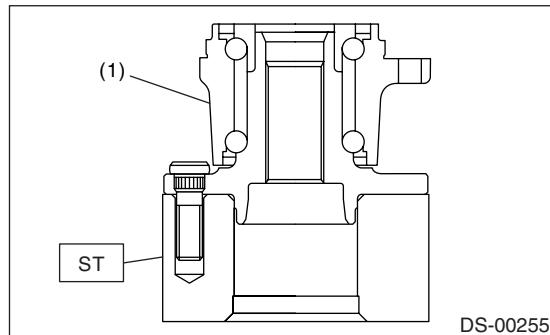


(1) Rear hub unit bearing

### D: ASSEMBLY

- 1) Attach the hub to the ST securely.

ST28099PA080 HUB STAND



(1) Rear hub unit bearing

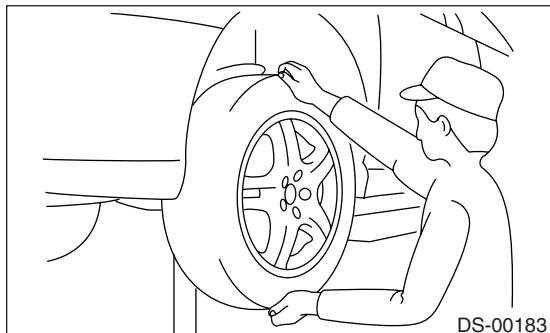
- 2) Using a press, press the new hub bolts until their seating surfaces contact the hub.

#### 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.



- 2) Inspect the lean of axis direction using a dial gauge. Replace the hub bearing if the play exceeds the limit value.

#### Service limit:

**Maximum: 0.05 mm (0.0020 in)**

