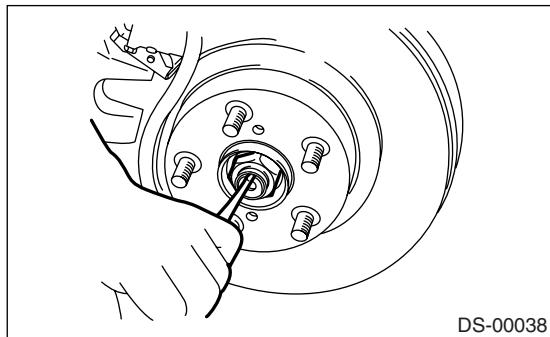


## 5. Front Hub Unit Bearing

### A: REMOVAL

- 1) Disconnect the ground cable from the battery.
- 2) Lift-up the vehicle, and remove the front 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:

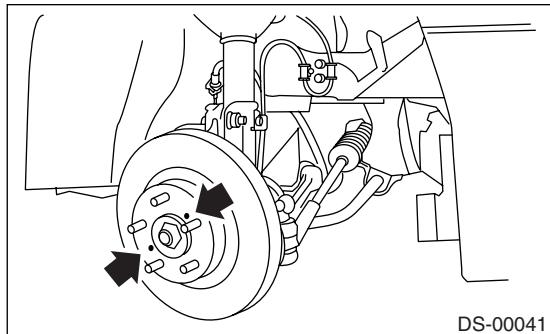
**Remove the wheel before loosening the axle nut. Failure to follow this rule may damage the wheel bearings.**

- 5) Remove the disc brake caliper from the front housing, and suspend it from strut using a piece of wire.

- 6) Remove the disc rotor from the hub.

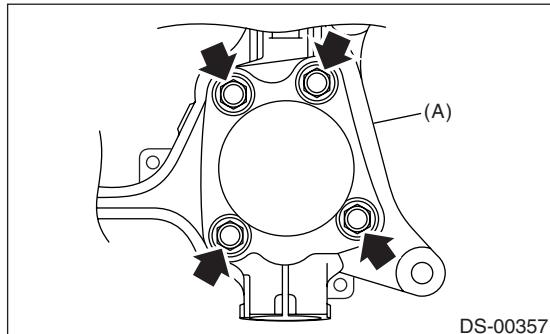
#### NOTE:

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.



DS-00041

- 7) Remove four bolts from the front housing.

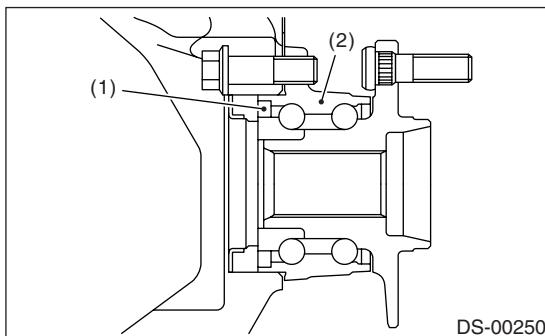


DS-00357

(A) Front housing

#### CAUTION:

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



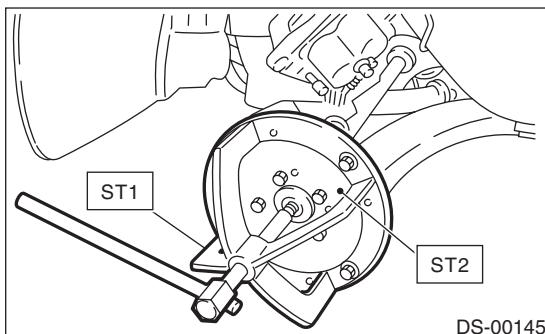
DS-00250

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

- 8) Remove the front hub unit bearing. If it is hard to remove, use the ST.

ST1 926470000 AXLE SHAFT PULLER

ST2 28099PA110 AXLE SHAFT PULLER PLATE



DS-00145

# Front Hub Unit Bearing

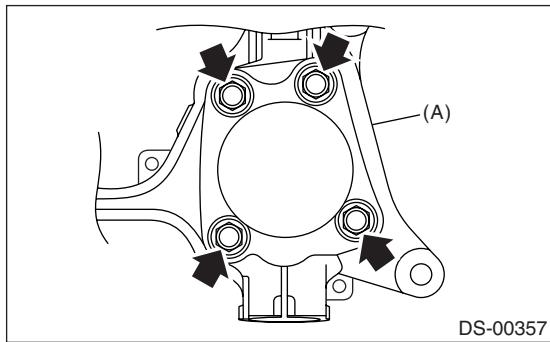
## DRIVE SHAFT SYSTEM

### B: INSTALLATION

1) Place the disc cover between front housing and front hub unit, and tighten the four bolts.

#### Tightening torque:

**65 N·m (6.6 kgf·m, 47.9 ft-lb)**



(A) Front housing

- 2) Install the front drive shaft. <Ref. to DS-24, INSTALLATION, Front Drive Shaft.>
- 3) Tighten the axle nut temporarily.
- 4) Install the disc rotor to hub.
- 5) Install the disc brake caliper to the front housing.

#### Tightening torque:

**120 N·m (12.2 kgf·m, 88.5 ft-lb)**

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

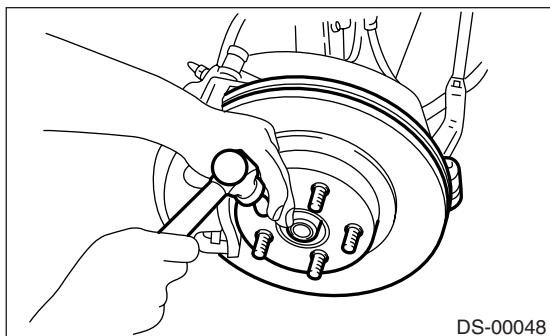
#### Tightening torque:

**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.

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



- 8) 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.

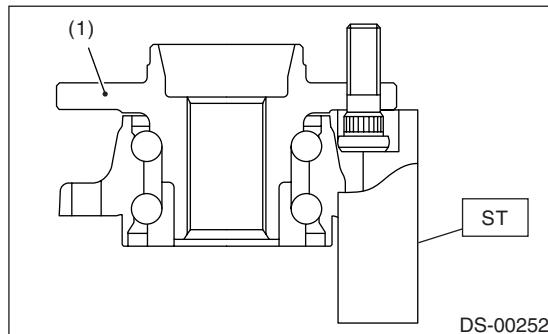
ST 28399AG000 HUB STAND

#### 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.

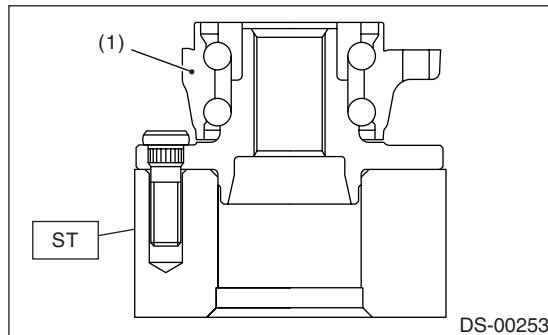


(1) Front hub unit bearing

### D: ASSEMBLY

- 1) Attach the hub to the ST securely.

ST28099PA080 HUB STAND



(1) Front 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

Refer to Front Axle for inspection procedures. <Ref. to DS-16, INSPECTION, Front Axle.>

#### CAUTION:

If there is any fault in the bearing, replace hub unit bearing.