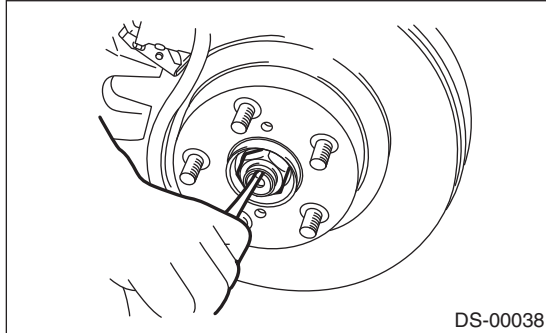


4. Front Hub Unit Bearing

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.



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

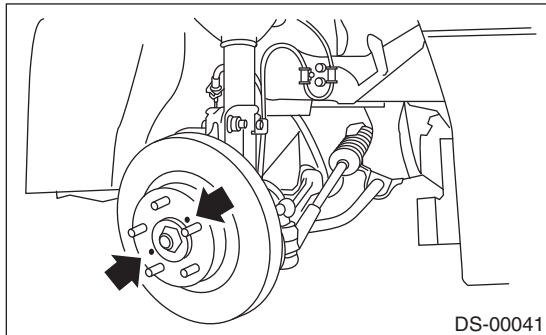
CAUTION:

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

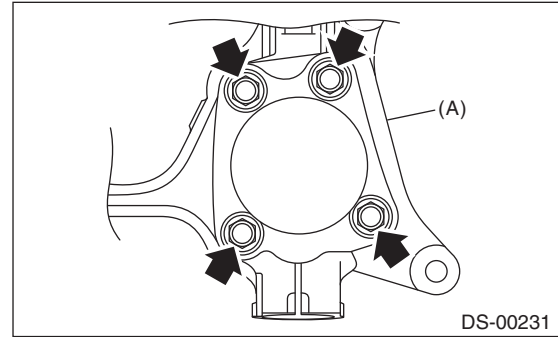
- 5) Remove the disc brake caliper from the housing, and suspend it from strut using a wire.
- 6) Remove the disc rotor from the hub.

NOTE:

If it is difficult to remove the disc rotor from the hub, drive the 8 mm bolt into the threaded end of rotor, and then remove the rotor.



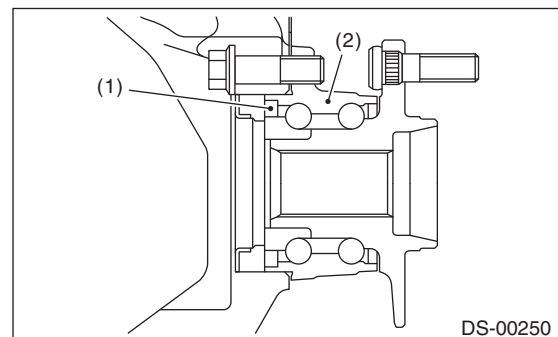
- 7) Remove the four bolts from the housing.



(A) Housing

CAUTION:

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



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

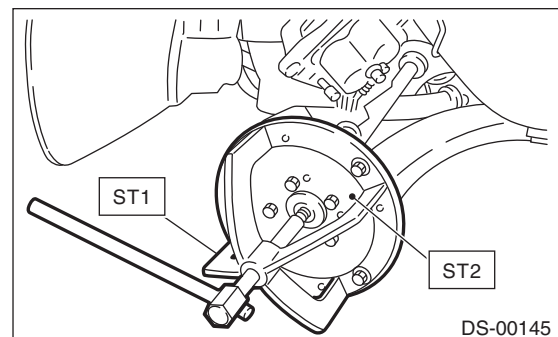
- 8) Remove the front hub unit bearing. If it is hard to remove, use the ST.

ST1 926470000

AXLE SHAFT PULLER

ST2 28099PA110

AXLE SHAFT PULLER
PLATE

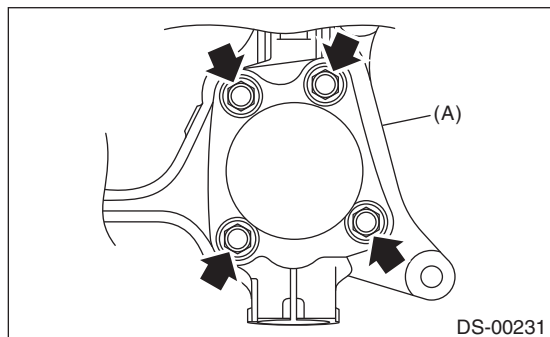


B: INSTALLATION

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

Tightening torque:

65 N·m (6.6 kgf-m, 47.9 ft-lb)



(A) Housing

2) Install the front drive shaft. <Ref. to DS-28, INSTALLATION, Front Drive Shaft.>

3) Tighten the axle nut temporarily.

4) Install the disc rotor to hub.

5) Install the disc brake caliper on the housing.

Tightening torque:

80 N·m (8.2 kgf-m, 59 ft-lb)

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

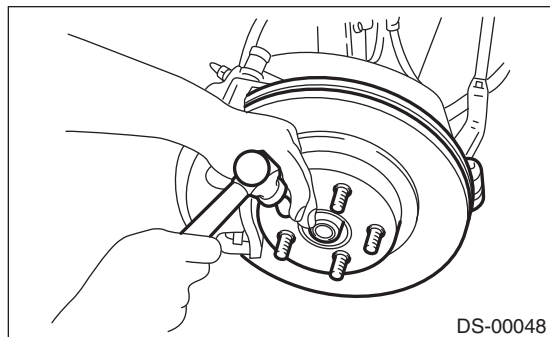
Tightening torque:

220 N·m (22.4 kgf-m, 162 ft-lb)

CAUTION:

- Do not install wheel and let it touch the ground before tightening the axle nut. Failure to follow this rule may damage the axle bearing.
- Do not overtighten the nuts as this may damage the axle bearing.

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



8) Install the wheel.

Tightening torque:

100 N·m (10.2 kgf-m, 73.8 ft-lb)

C: DISASSEMBLY

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

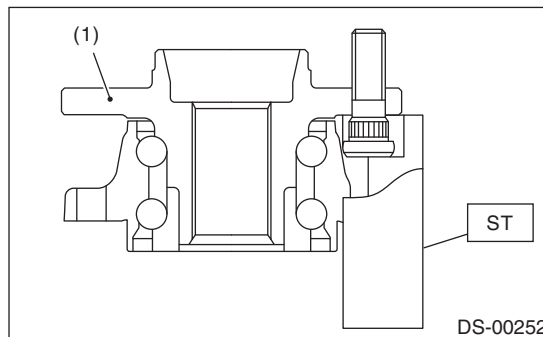
ST 28399AG000 HUB STAND

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.

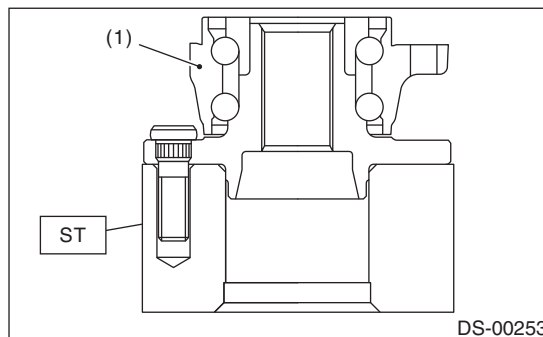


(1) Front hub unit bearing

D: ASSEMBLY

1) Attach the hub to the ST securely.

ST 927080000 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-17, INSPECTION, Front Axle.>

CAUTION:

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