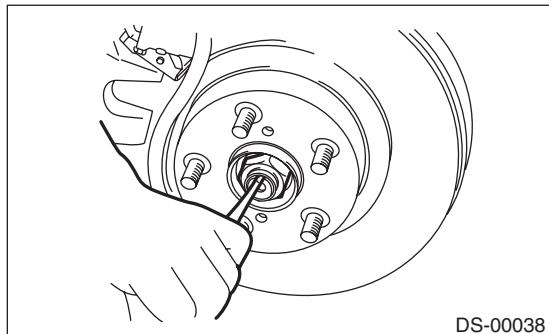


4. Front Hub Unit Bearing

A: REMOVAL

- 1) Disconnect the ground cable from 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.

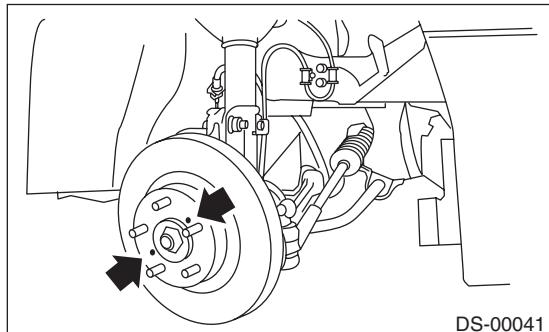
CAUTION:

Do not loosen the axle nut with a load applied to the front axle. Otherwise the hub bearing may become damaged.

- 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.

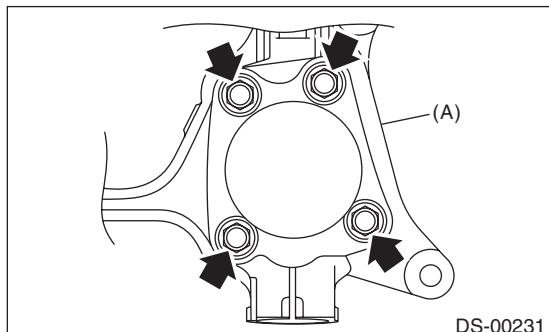
NOTE:

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.



DS-00041

- 7) Remove the four bolts from the housing.

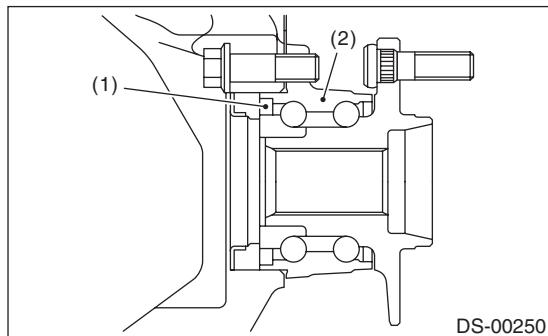


DS-0231

(A) Housing

CAUTION:

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

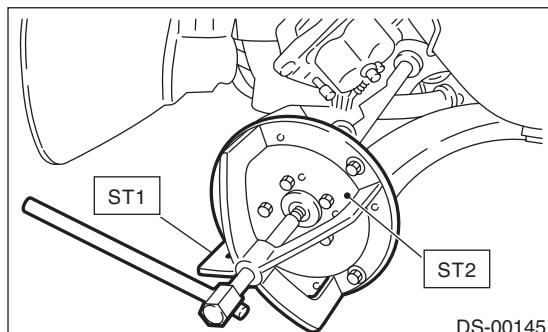


DS-00250

(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



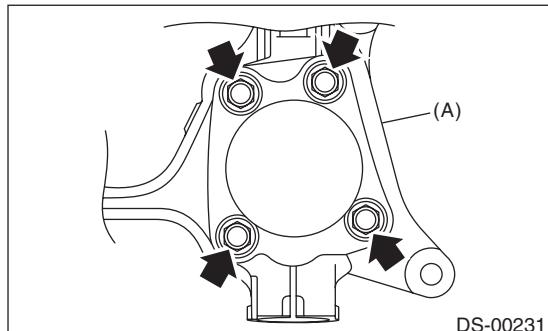
DS-00145

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)



DS-00231

(A) Housing

- 2) Install the front drive shaft. <Ref. to DS-26, INSTALLATION, Front Drive Shaft.>

Front Hub Unit Bearing

DRIVE SHAFT SYSTEM

- 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.

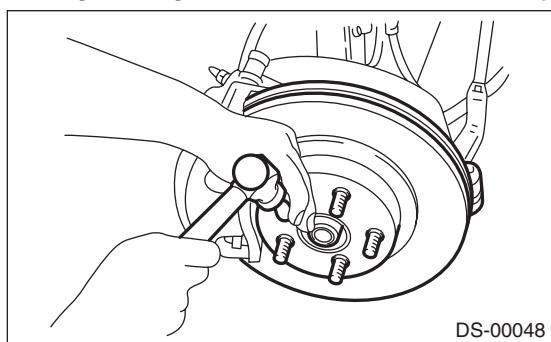
Tightening torque:

220 N·m (22.4 kgf-m, 162.3 ft-lb)

CAUTION:

Do not apply a load to the front axle before tightening the axle nut. Otherwise the hub bearing may become damaged.

- 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.

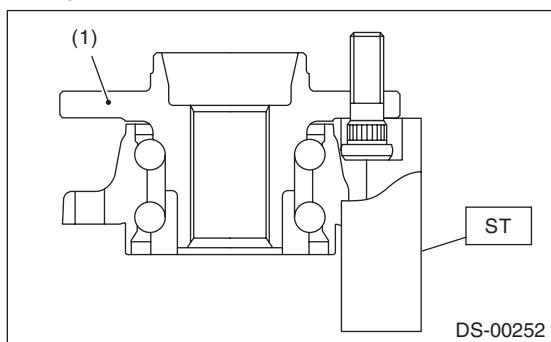
ST 28399AG000 HUB STAND

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.

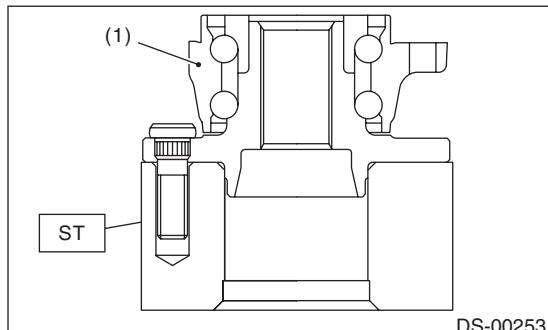


(1) Front hub unit bearing

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-16, INSPECTION, Front Axle.>

CAUTION:

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