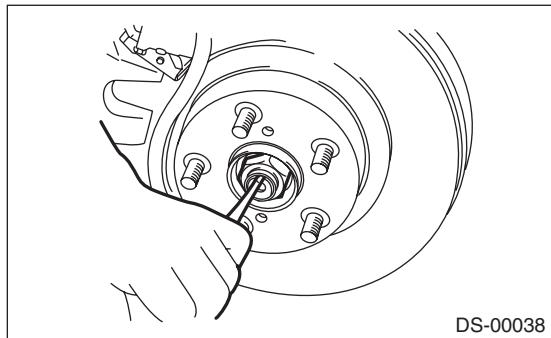


5. Rear Axle

A: REMOVAL

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



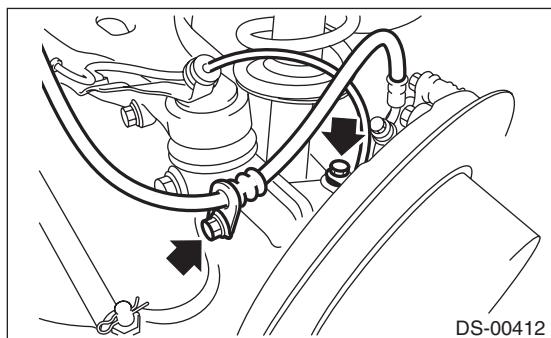
DS-00038

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

CAUTION:

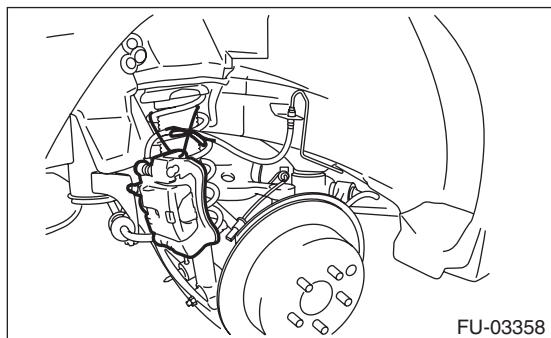
Do not loosen the axle nut while the rear axle is loaded. Doing so may damage the hub bearing.

- 5) Remove the brake hose bracket and the rear ABS wheel speed sensor.



DS-00412

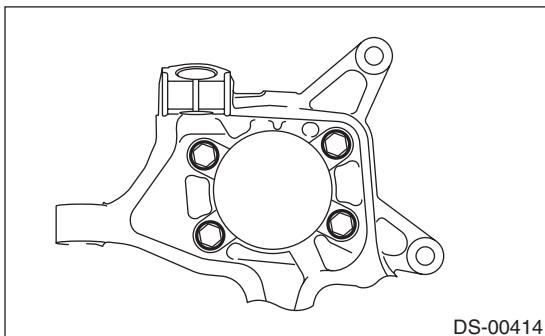
- 6) Remove the disc brake caliper from the rear housing, and suspend it from vehicle using a string.



FU-03358

- 7) Remove the rear disc rotor.

- 8) Remove the four bolts from the rear housing.

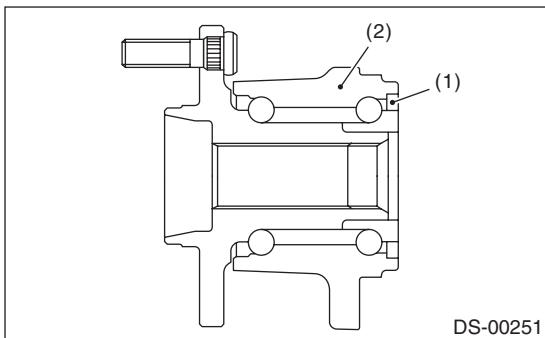


DS-00414

- 9) Remove the rear hub unit bearing.

CAUTION:

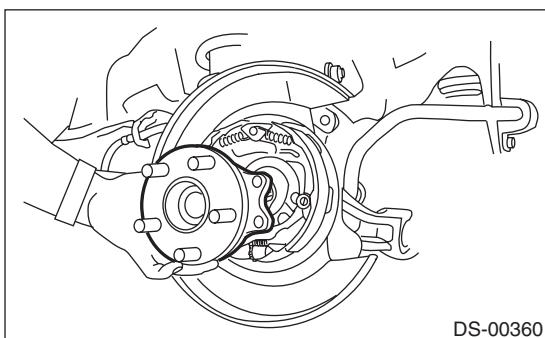
- Be careful not to damage the magnetic encoder.
- Do not get closer the tool which charged magnetism to magnetic encoder.



DS-00251

(1) Magnetic encoder

(2) Rear hub unit bearing

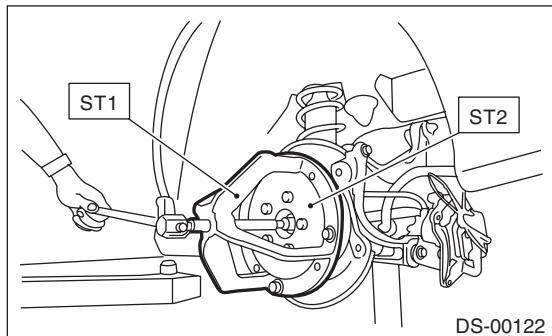


DS-00360

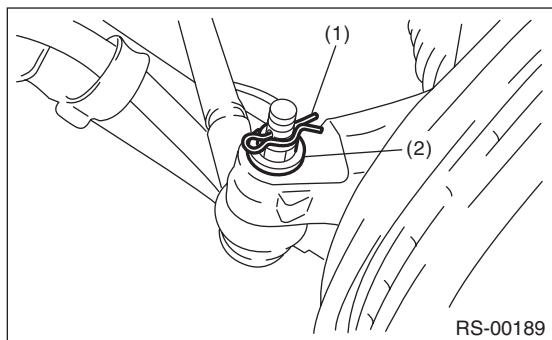
NOTE:

If it is hard to remove, use the ST.

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

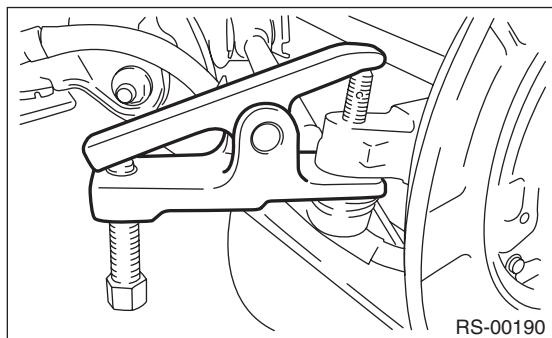


10) Remove the snap pin and nut from the front lateral link.

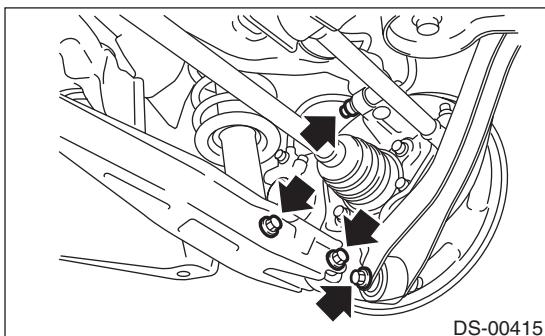


(1) Snap pin
(2) Nut

11) Separate the rear housing and the ball joint using the puller.



12) Separate the upper arm, trailing link and rear lateral link from the rear housing.



13) Remove the rear axle.

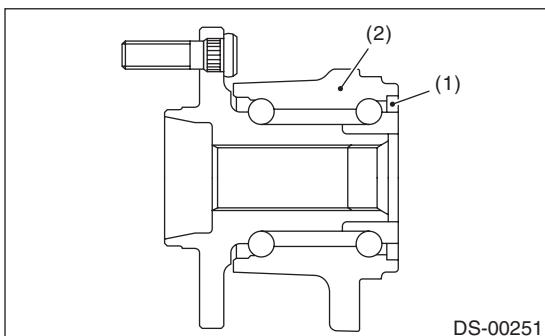
B: INSTALLATION

1) Temporarily tighten the rear housing to the upper arm.

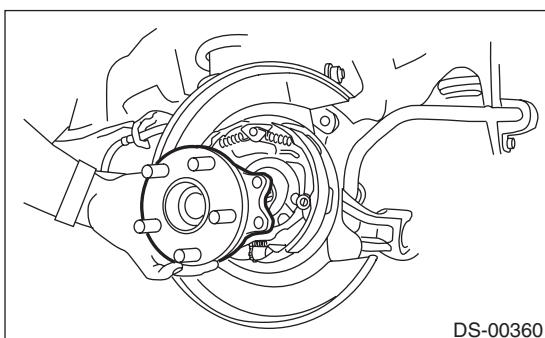
2) Aligning with the mounting hole of the rear brake back plate, temporarily tighten the rear hub unit bearing to the rear housing.

CAUTION:

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



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



3) Attach the rear drive shaft to the rear hub unit bearing.

4) Tighten the new axle nut temporarily.

CAUTION:

Use new axle nuts.

Rear Axle

DRIVE SHAFT SYSTEM

5) Attach the links to the rear housing and tighten them to the specified torque.

CAUTION:

For parts which are not reusable, refer to COMPONENT. <Ref. to RS-3, COMPONENT, General Description.>

Tightening torque:

Upper arm

80 N·m (8.16 kgf-m, 59 ft-lb)

Front lateral link

60 N·m (6.12 kgf-m, 44.3 ft-lb)

Rear lateral link

80 N·m (8.16 kgf-m, 59 ft-lb)

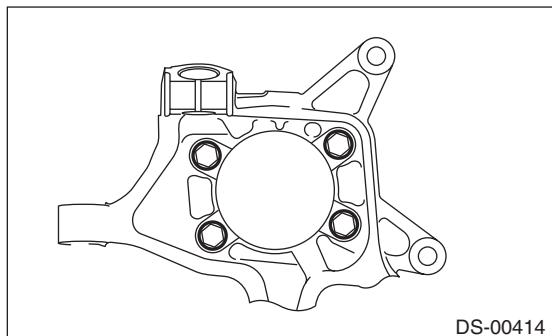
Trailing link

90 N·m (9.18 kgf-m, 66.4 ft-lb)

6) Tighten the four bolts of the rear housing.

Tightening torque:

65 N·m (6.63 kgf-m, 47.9 ft-lb)



7) Install the rear disc rotor.

8) Install the rear disc brake caliper on the rear housing.

Tightening torque:

17-inch type

65 N·m (6.63 kgf-m, 47.9 ft-lb)

15-inch type

66 N·m (6.73 kgf-m, 48.7 ft-lb)

9) Install the brake hose bracket and rear ABS wheel speed sensor.

Tightening torque:

Brake hose bracket

33 N·m (3.36 kgf-m, 24.3 ft-lb)

Rear ABS wheel speed sensor

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

10) While pressing the brake pedal, tighten the new axle nuts to the specified torque.

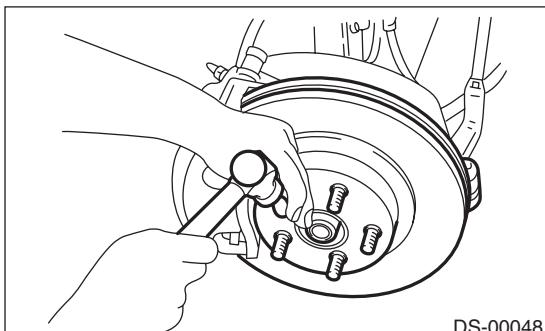
CAUTION:

Do not apply weight to the rear axle before tightening the axle nut. Doing so may damage the hub bearing.

Tightening torque:

190 N·m (19.37 kgf-m, 140.1 ft-lb)

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



12) Install the rear wheels.

Tightening torque:

100 N·m (10.20 kgf-m, 73.8 ft-lb)

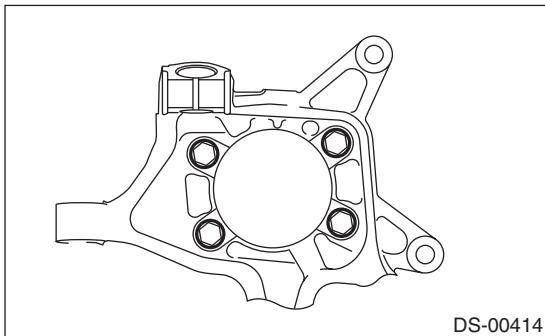
13) Connect the battery ground terminal.

14) Inspect the wheel alignment and adjust if necessary.

C: DISASSEMBLY

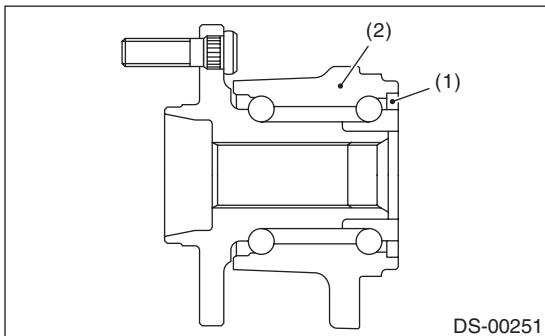
1. REAR HUB UNIT BEARING

1) Remove the four bolts from the rear housing, and remove the rear hub unit bearing and back plate.



CAUTION:

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



(1) Magnetic encoder

(2) Rear hub unit bearing

2) Disassemble the rear hub unit bearing. <Ref. to DS-25, DISASSEMBLY, Rear Hub Unit Bearing.>

2. BUSHING

For the removal procedure of bushing, refer to “Rear Trailing Link” in “REAR SUSPENSION”. <Ref. to RS-11, REAR HOUSING BUSHING, DISASSEMBLY, Rear Trailing Link.>

D: ASSEMBLY

1. REAR HUB UNIT BEARING

Assemble each part in the reverse order of disassembly.

Tightening torque:

Rear hub unit bearing

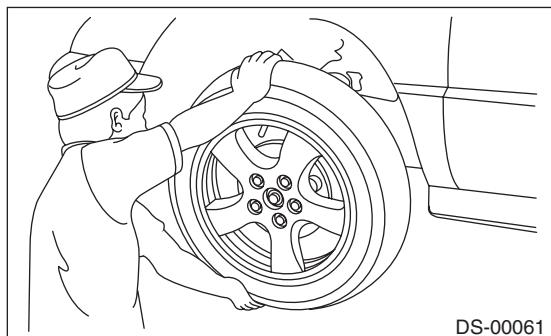
65 N·m (6.63 kgf-m, 47.9 ft-lb)

2. BUSHING

For the installation procedure of bushing, refer to “Rear Trailing Link” in “REAR SUSPENSION”. <Ref. to RS-12, REAR HOUSING BUSHING, ASSEMBLY, Rear Trailing Link.>

E: INSPECTION

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



2) Inspect the lean of axis direction using a dial gauge. Replace the bearing if the load range exceeds the limitation.

Service limit:

Maximum: 0.05 mm (0.0020 in)

