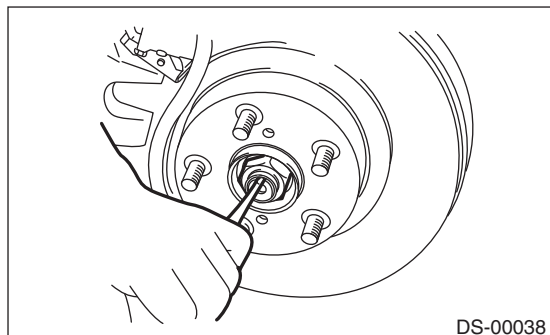


5. Rear Axle

A: REMOVAL

- 1) Lift up the vehicle, and then remove the rear wheels.
- 2) Lift the crimped section of axle nut.

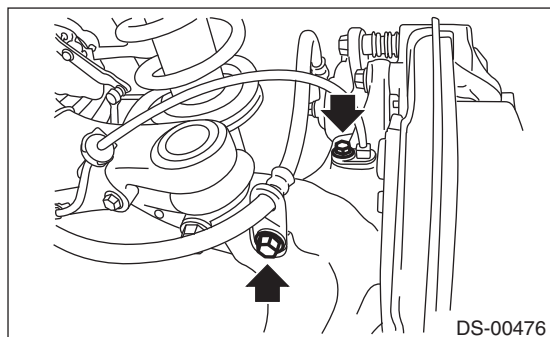


- 3) Remove the axle nut using a socket wrench while depressing the brake pedal.

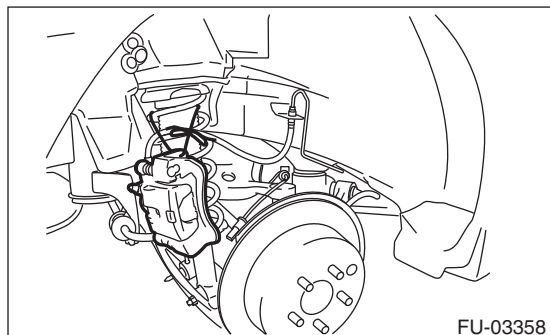
CAUTION:

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

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

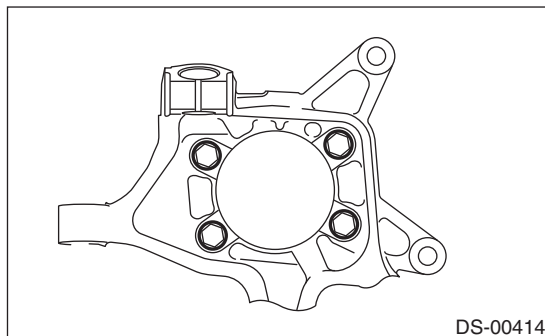


- 5) Remove the disc brake caliper from the rear housing, and suspend it from the vehicle using ropes.



- 6) Remove the rear disc rotor.

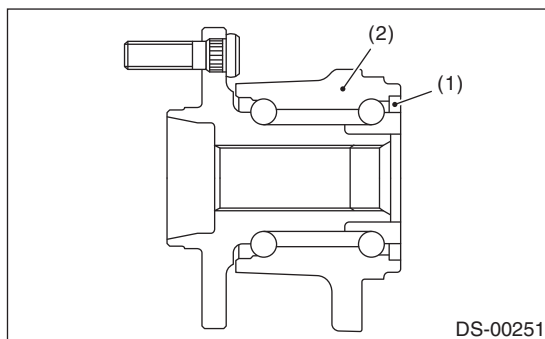
- 7) Remove four bolts from the rear housing.



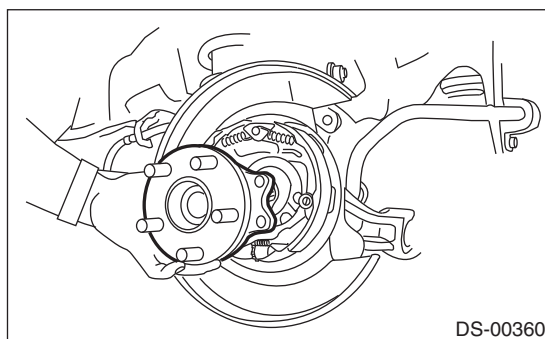
- 8) Remove the rear hub unit bearing.

CAUTION:

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



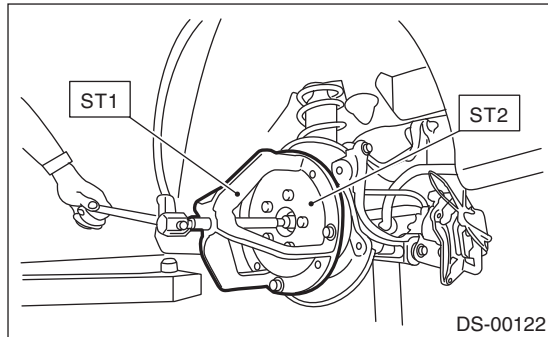
- (1) Magnetic encoder
- (2) Rear hub unit bearing



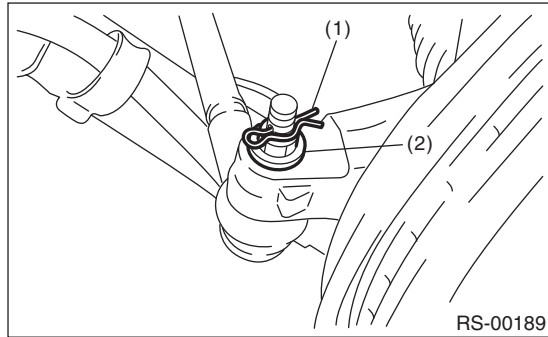
NOTE:

If it is hard to remove, use the ST.

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

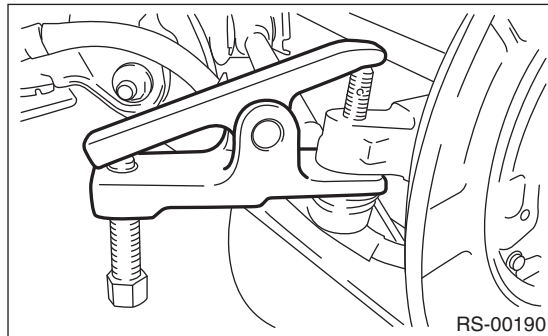


9) Remove the snap pin and nut from the front lateral link.

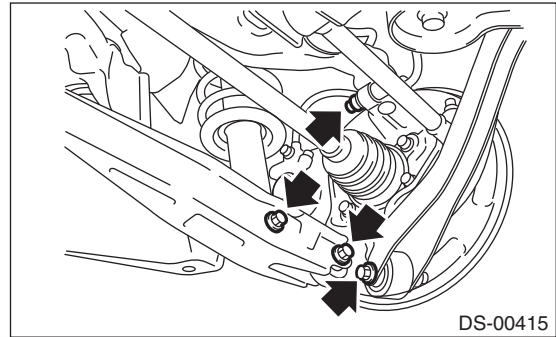


- (1) Snap pin
- (2) Nut

10) Separate the rear housing and ball joint using a puller.



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



12) Remove the rear axle.

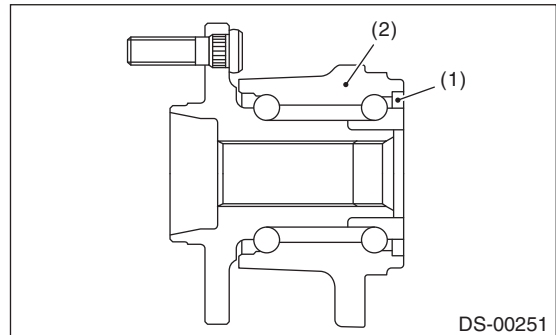
B: INSTALLATION

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

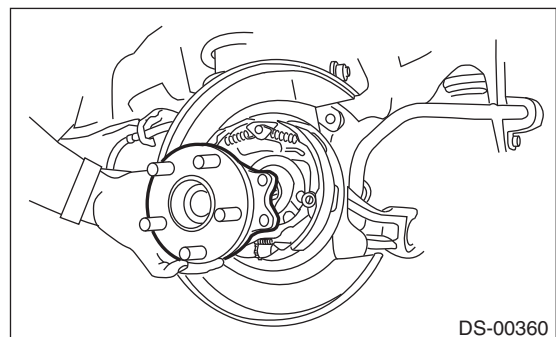
2) Align the hole of rear brake back plate, and temporarily tighten the rear hub unit bearing to the rear housing.

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) Install the rear drive shaft to the rear hub unit bearing.

4) Tighten the new axle nut temporarily.

CAUTION:

Use a new axle nut.

Rear Axle

DRIVE SHAFT SYSTEM

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

Tightening torque:

Upper arm

80 N·m (8.2 kgf-m, 59 ft-lb)

Front lateral link

60 N·m (6.1 kgf-m, 44.3 ft-lb)

Rear lateral link

80 N·m (8.2 kgf-m, 59 ft-lb)

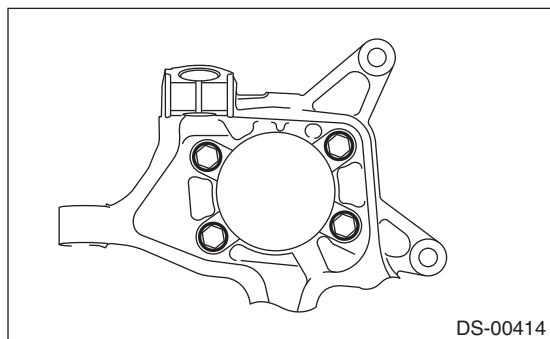
Trailing link

80 N·m (8.2 kgf-m, 59 ft-lb)

6) Tighten the rear hub unit bearing.

Tightening torque:

65 N·m (6.6 kgf-m, 47.9 ft-lb)



7) Install the rear disc rotor.

8) Install the rear disc brake.

Tightening torque:

66 N·m (6.7 kgf-m, 48.7 ft-lb)

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

Tightening torque:

Frame hose bracket

33 N·m (3.4 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.

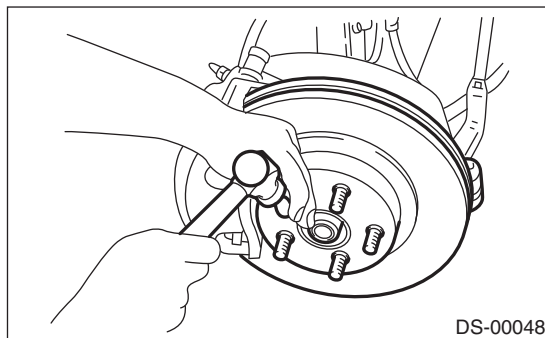
Tightening torque:

240 N·m (24.5 kgf-m, 177 ft-lb)

CAUTION:

Do not load the rear axle before tightening the axle nut. Doing so may damage the hub bearing.

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



12) Install the rear wheels.

Tightening torque:

120 N·m (12.2 kgf-m, 88.5 ft-lb)

13) Inspect the wheel alignment and adjust if necessary.

C: DISASSEMBLY

Refer to "Rear Trailing Link" of "REAR SUSPENSION" for removal procedures of bushing.

<Ref. to RS-10, REAR HOUSING BUSHING, DISASSEMBLY, Rear Trailing Link.>

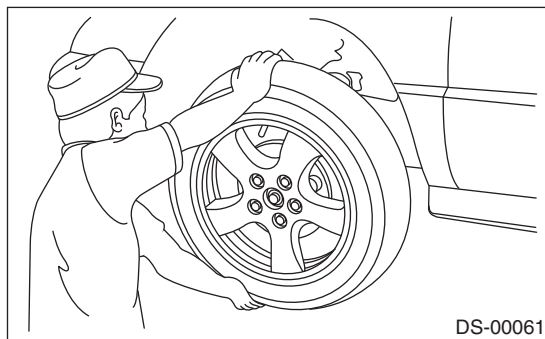
D: ASSEMBLY

Refer to "Rear Trailing Link" of "REAR SUSPENSION" for installation procedures of bushing.

<Ref. to RS-11, REAR HOUSING BUSHING, ASSEMBLY, Rear Trailing Link.>

E: INSPECTION

1) While moving the rear tire up and down by hand, check if there is no backlash in the bearing, and make sure 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)

