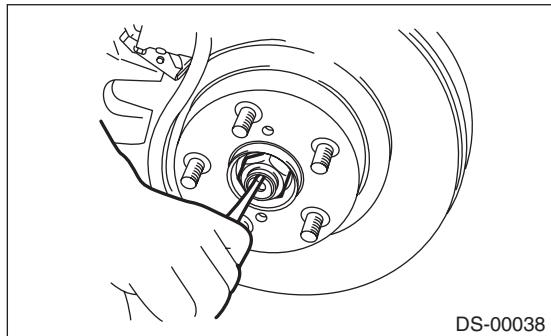


5. Rear Axle

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

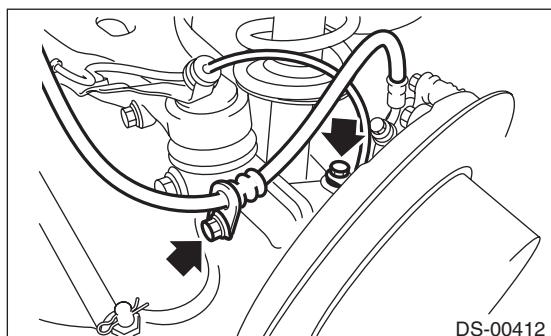
- 4) Remove the axle nut using a socket wrench while depressing the brake pedal.

CAUTION:

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

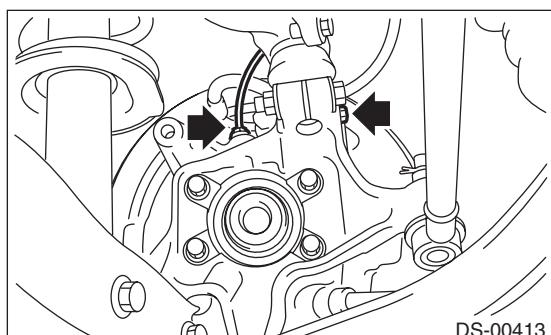
- 5) Remove the brake hose bracket and the rear ABS wheel speed sensor.

- Disc brake model



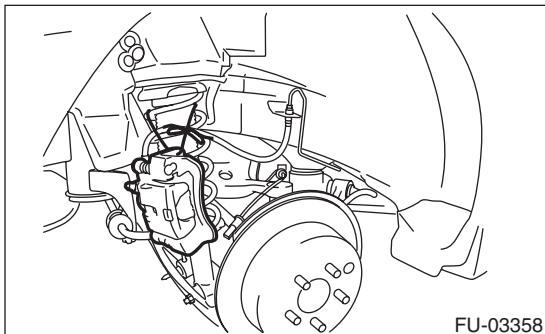
DS-00412

- Drum brake model



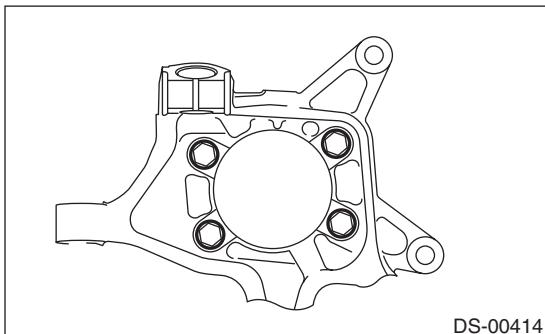
DS-00413

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



FU-03358

- 7) Remove the rear disc rotor. (Disc brake model)
- 8) Remove the brake drum. (Drum brake model)
- 9) Remove the four bolts from the rear housing.



DS-00414

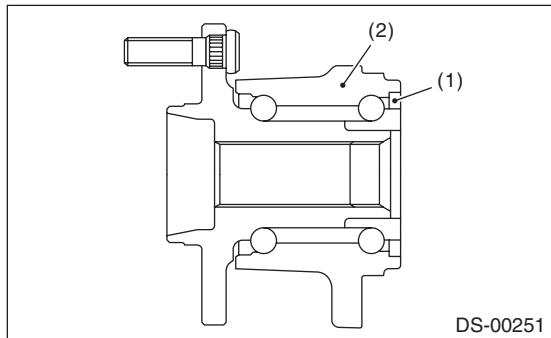
Rear Axle

DRIVE SHAFT SYSTEM

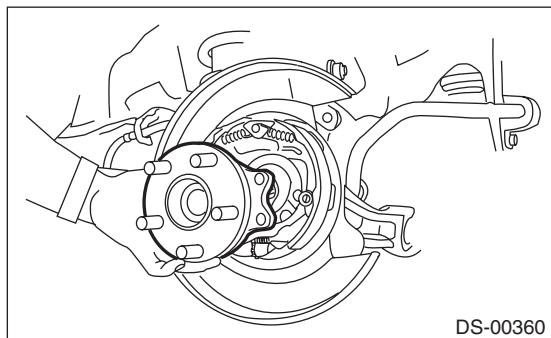
10) Remove the rear hub unit bearing.

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

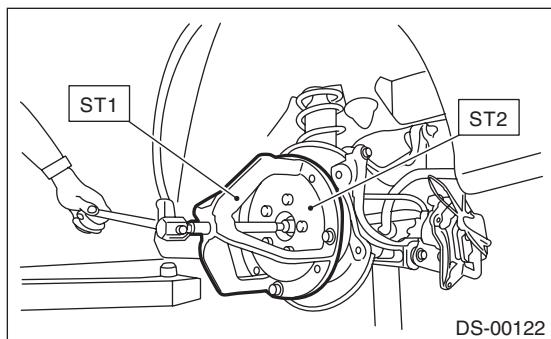


DS-00360

NOTE:

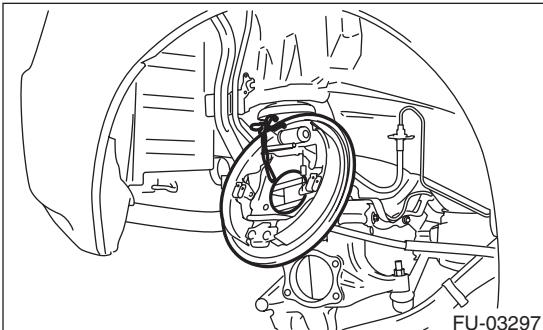
If it is hard to remove, use the ST.

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



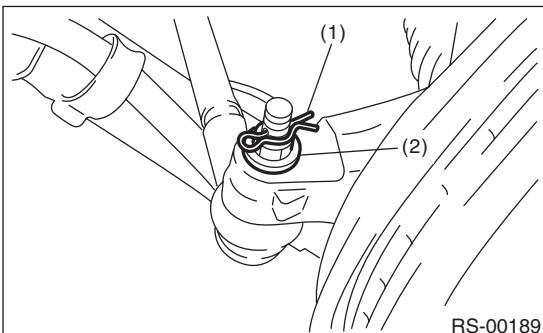
DS-00122

11) Suspend the rear brake from the shock absorber. (Drum brake model)



FU-03297

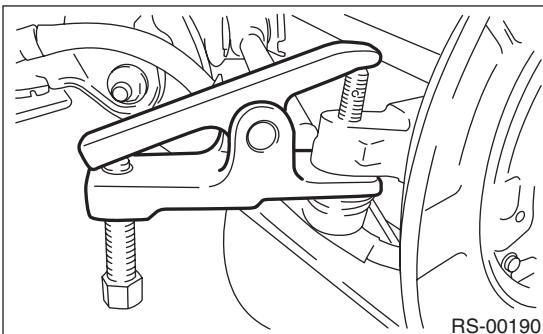
12) Remove the snap pin and nut from the front lateral link.



RS-00189

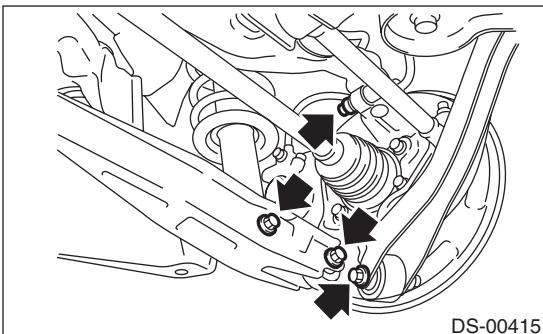
(1) Snap pin
(2) Nut

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



RS-00190

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



DS-00415

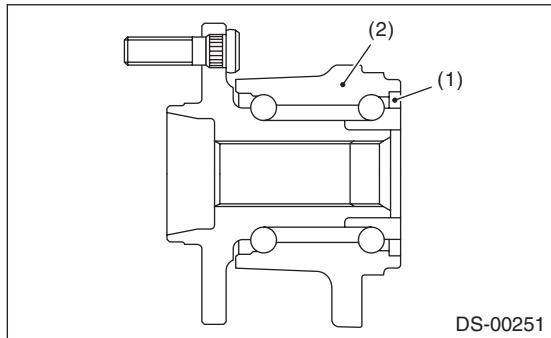
15) Remove the rear axle.

B: INSTALLATION

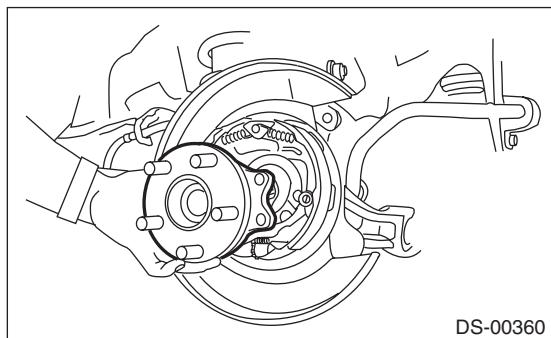
- 1) Temporarily tighten the rear housing to the upper arm.
- 2) Aligning with the mounting hole of the rear brake back plate, temporarily tighten the rear hub unit bearing to the rear housing.

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.

- 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

120 N·m (12.2 kgf-m, 88.5 ft-lb)

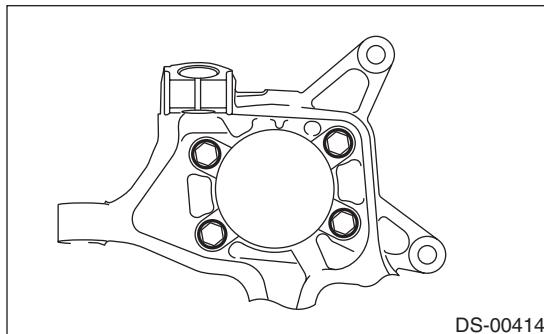
Trailing link

90 N·m (9.2 kgf-m, 66.4 ft-lb)

- 6) Tighten the four bolts of the rear housing.

Tightening torque:

65 N·m (6.6 kgf-m, 47.9 ft-lb)



DS-00414

- 7) Install the rear disc rotor. (Disc brake model)
- 8) Install the brake drum. (Drum brake model)
- 9) Install the rear disc brake caliper on the rear housing. (Disc brake model)

Tightening torque:

66 N·m (6.7 kgf-m, 48.7 ft-lb)

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

Tightening torque:

Brake 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)

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

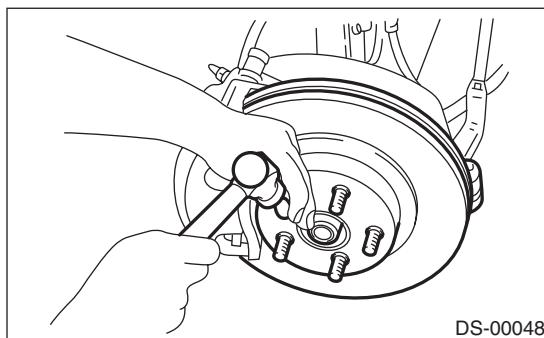
CAUTION:

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 (19.4 kgf-m, 140.1 ft-lb)

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



DS-00048

- 13) Install the rear wheels.

Tightening torque:

100 N·m (10.2 kgf-m, 73.8 ft-lb)

- 14) Connect the battery ground terminal.

- 15) Inspect the wheel alignment and adjust if necessary.

C: DISASSEMBLY

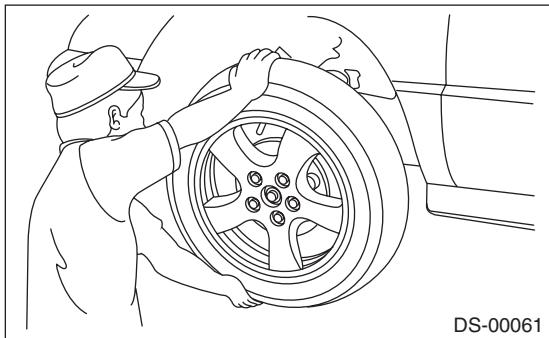
For the removal procedure of bushing, refer to "Rear Trailing Link" in "REAR SUSPENSION".
<Ref. to RS-11, REAR HOUSING BUSHING, DIS-ASSEMBLY, Rear Trailing Link.>

D: ASSEMBLY

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

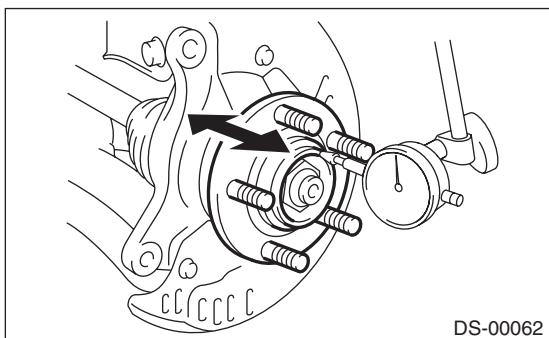
- 1) Moving the rear tire up and down by hand, check that there is no backlash in bearing, and check that the wheel rotates smoothly.



- 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)



DS-00062