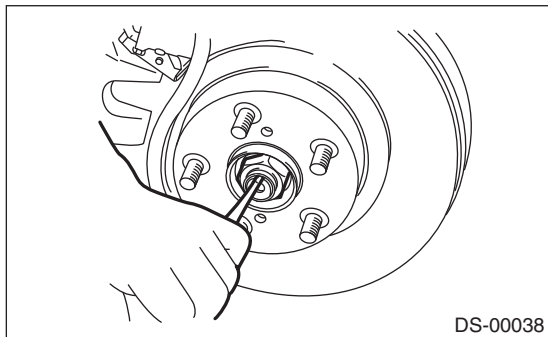


5. Rear Axle

A: REMOVAL

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

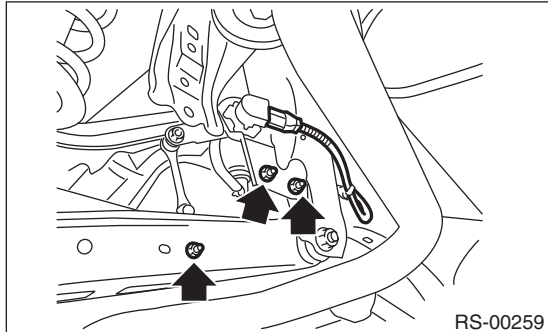


- 4) Remove the axle nut using a socket wrench while depressing the brake pedal.

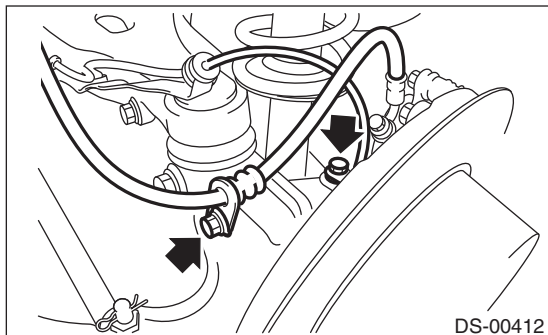
CAUTION:

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

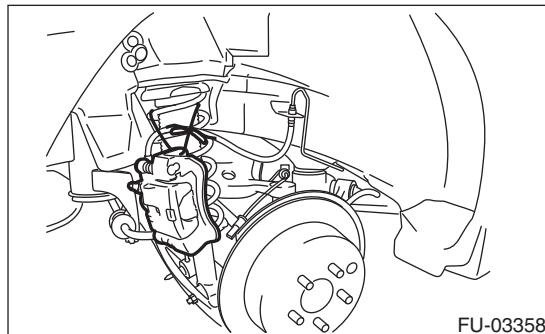
- 5) Disconnect the connector, remove the nut and remove the rear vehicle height sensor. (models with auto headlight beam leveler, left side only)



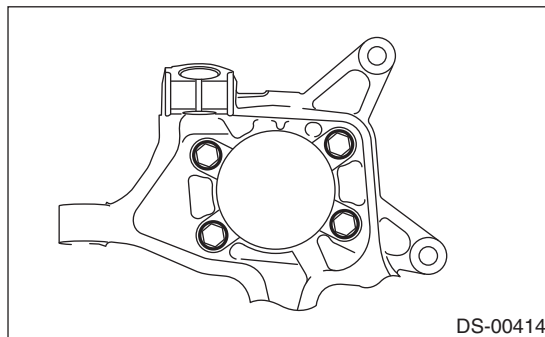
- 6) Remove the brake hose bracket and the rear ABS wheel speed sensor.



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



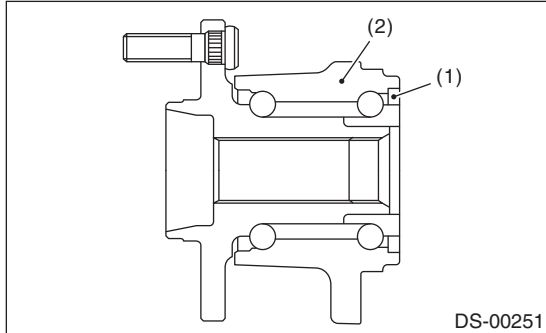
- 8) Remove the rear disc rotor.
- 9) Remove the four bolts from the rear housing.



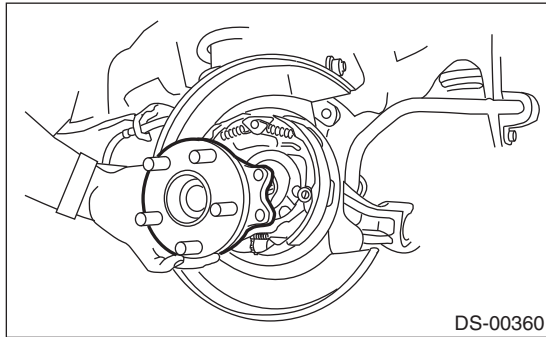
10) Remove the rear hub unit bearing.

CAUTION:

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



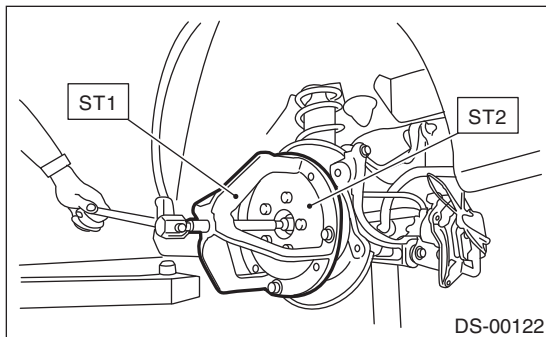
- (1) Magnetic encoder
(2) Rear hub unit bearing



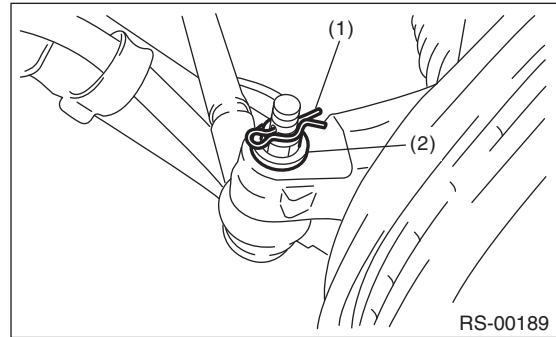
NOTE:

If it is hard to remove, use the ST.

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

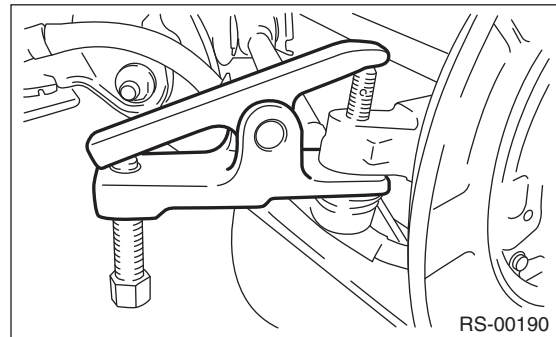


11) Remove the snap pin and nut from the front lateral link.

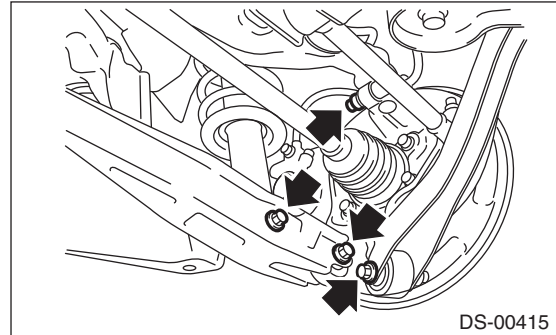


- (1) Snap pin
(2) Nut

12) Using a puller, separate the rear housing and ball joint.



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



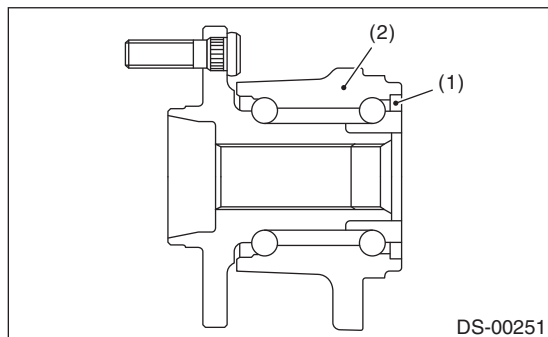
14) Remove the rear axle.

B: INSTALLATION

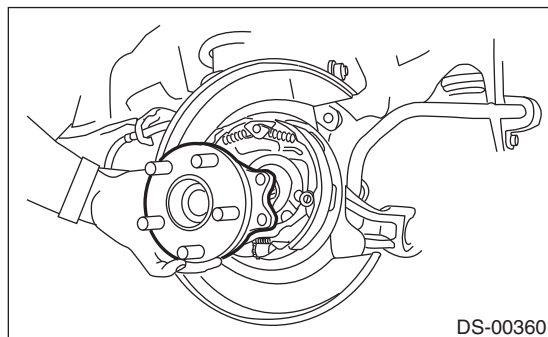
- 1) Temporarily tighten the rear housing to the upper arm.
- 2) Aligning with the mounting hole of the rear brake back plate, temporarily tighten the rear hub unit bearing to the rear housing.

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

90 N·m (9.2 kgf-m, 66.4 ft-lb)

Front lateral link

60 N·m (6.1 kgf-m, 44 ft-lb)

Rear lateral link

120 N·m (12.2 kgf-m, 89 ft-lb)

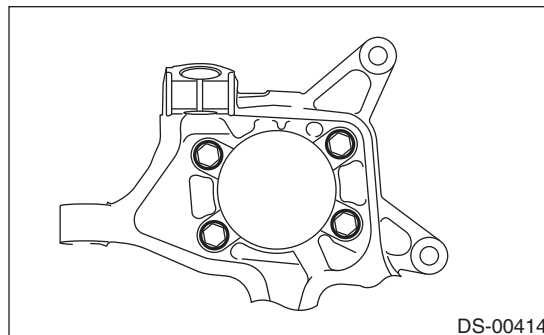
Trailing link

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)



- 7) Install the rear disc rotor.
- 8) Install the rear disc brake caliper to the rear housing.

Tightening torque:

66 N·m (6.7 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 (3.4 kgf-m, 24.3 ft-lb)

Rear ABS wheel speed sensor

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

- 10) Attach the rear vehicle height sensor. (models with auto headlight beam leveler, left side only)

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

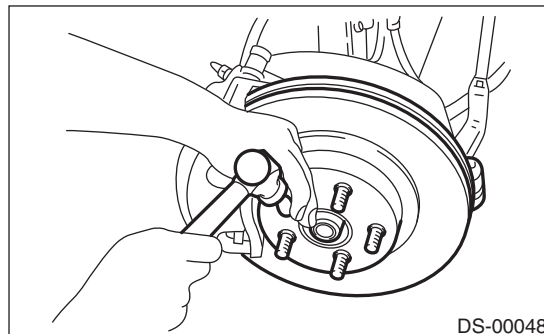
- 11) While pressing the brake pedal, tighten the new axle nuts to the specified torque.

Tightening torque:

190 N·m (19.4 kgf-m, 140 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.
- 12) After tightening the axle nut, lock it securely.



13) Install the rear wheels.

Tightening torque:

100 N·m (10.2 kgf-m, 73.8 ft-lb)

14) Connect the ground cable to the battery.

15) Inspect the wheel alignment and adjust if necessary.

16) Perform reinitialization of the auto headlight beam leveler system. <Ref. to LI-15, PROCEDURE, Auto Headlight Beam Leveler System.>