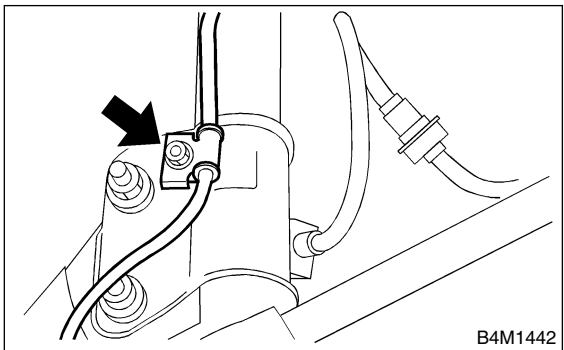


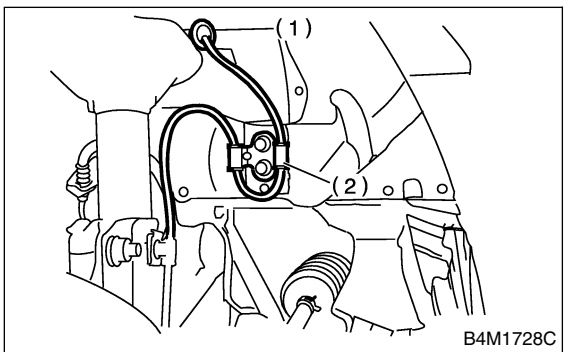
4. Front ABS Sensor S401190

A: REMOVAL S401190A18

- 1) Disconnect battery ground cable.
- 2) Disconnect front ABS sensor connector located next to front strut mounting house in engine compartment.
- 3) Remove bolts which secure sensor harness to strut.



- 4) Remove bolts which secure sensor harness to body.

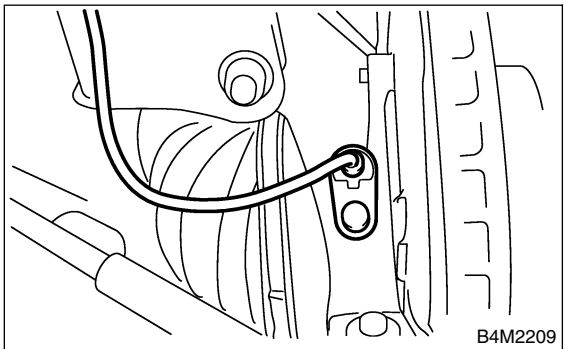


- (1) To front ABS sensor connector
- (2) Bracket

- 5) Remove bolts which secure front ABS sensor to housing, and remove front ABS sensor.

CAUTION:

- Be careful not to damage pole piece located at tip of the sensor and teeth faces during removal.
- Do not pull sensor harness during removal.

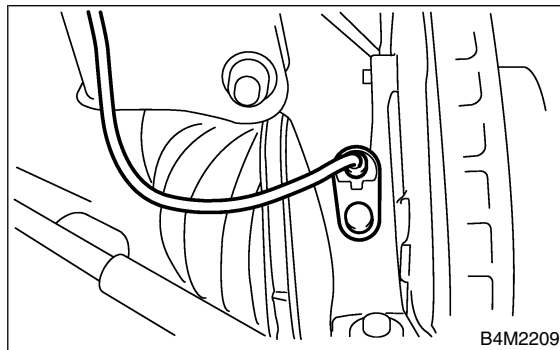


B: INSTALLATION S401190A11

- 1) Temporarily install front ABS sensor on housing.

CAUTION:

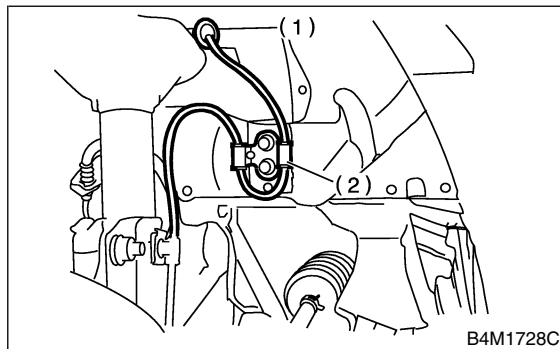
Be careful not to strike ABS sensor's pole piece and tone wheel's teeth against adjacent metal parts during installation.



- 2) Install front ABS sensor on strut and wheel apron bracket.

Tightening torque:

32 N·m (3.3 kgf·m, 24 ft·lb)



- (1) To front ABS sensor connector
- (2) Bracket

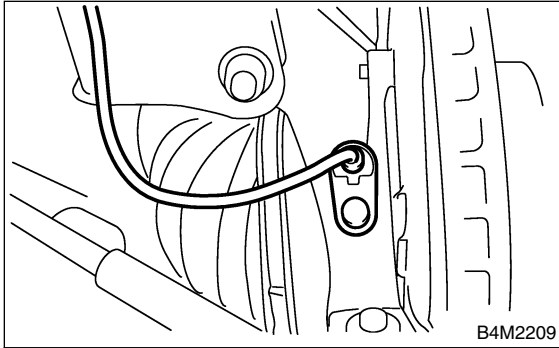
FRONT ABS SENSOR

ABS

3) Place a thickness gauge between ABS sensor's and tone wheel's tooth face. After standard clearance is obtained over the entire perimeter, tighten ABS sensor on housing to specified torque.

ABS sensor standard clearance:
0.3 — 0.8 mm (0.012 — 0.031 in)

Tightening torque:
32 N·m (3.3 kgf-m, 24 ft-lb)



CAUTION:
Check the marks on the harness to make sure that no distortion exists.

| Model | LH | RH |
|----------------|--------|------------|
| Except OUTBACK | Yellow | White |
| OUTBACK | Brown | Light blue |

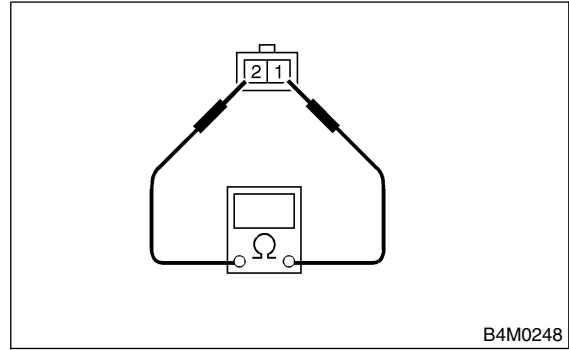
NOTE:
 If the clearance is outside specifications, adjust the gap using spacer (Part No. 26755AA000).

- 4) After confirmation of the ABS sensor clearance, connect connector to ABS sensor.
- 5) Connect connector to battery ground cable.

C: INSPECTION S401190A10

1. ABS SENSOR S401190A1001

- 1) Check pole piece of ABS sensor for foreign particles or damage. If necessary, clean pole piece or replace ABS sensor.
- 2) Measure ABS sensor resistance.



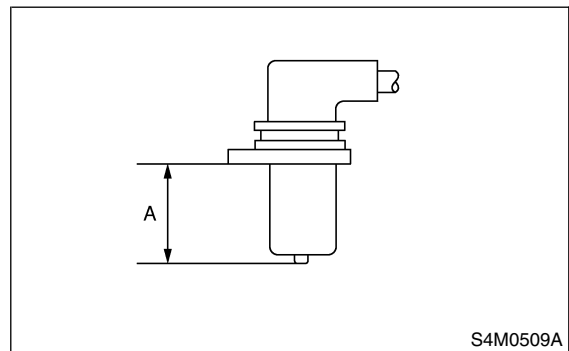
| Terminal No. | Standard |
|--------------|--------------|
| 1 and 2 | 1.25±0.25 kΩ |

CAUTION:
If resistance is outside the standard value, replace ABS sensor with a new one.

NOTE:
 Check ABS sensor cable for discontinuity. If necessary, replace with a new one.

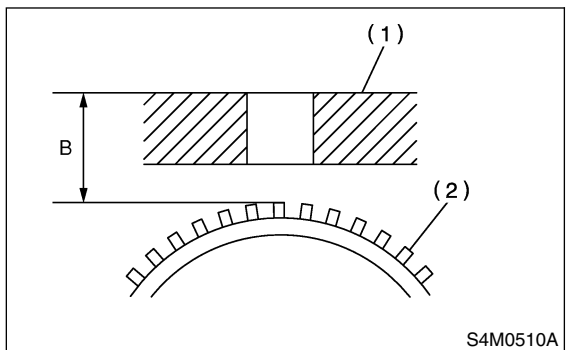
2. SENSOR GAP S401190A1002

- 1) Measure the distance "A" between ABS sensor surface and sensor pole face.



- 2) Measure the distance "B" between surface where the front axle housing meets the ABS sensor, and the tone wheel.

NOTE:
 Measure so that the gauge touches the tone wheel teeth top.



D: ADJUSTMENT S401190A01

Adjust the gap using spacer (Part No. 26755AA000).

- (1) Axle housing
- (2) Tone wheel

3) Find the gap between the ABS sensor pole face and the surface of the tone wheel teeth by putting the measured values in the formula below and calculating.

ABS sensor clearance = B - A

ABS sensor standard clearance:
0.3 — 0.8 mm (0.012 — 0.031 in)

NOTE:

If the clearance is outside specifications, adjust the gap using spacer (Part No. 26755AA000).

3. OUTPUT VOLTAGE S401190A1003

Output voltage can be checked by the following method. Install resistor and condenser, then rotate wheel about 2.75 km/h (2 MPH) or equivalent.

NOTE:

Regarding terminal No., please refer to item 1. ABS SENSOR.

