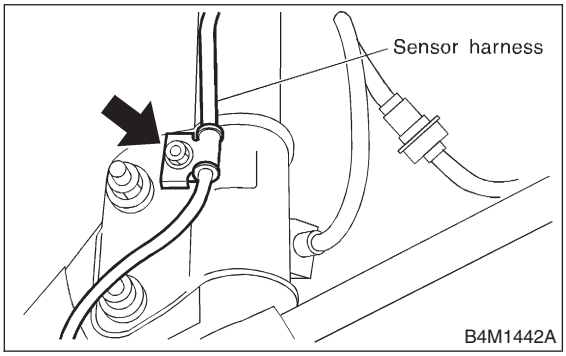
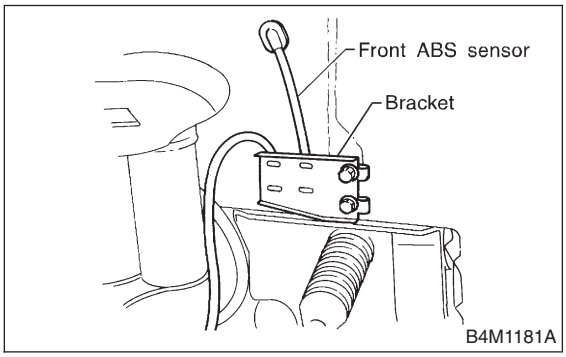
4. Front ABS Sensor S401190

A: REMOVAL S401190A18

1) Disconnect front ABS sensor connector located in engine compartment.
2) Remove bolts which secure sensor harness to strut.

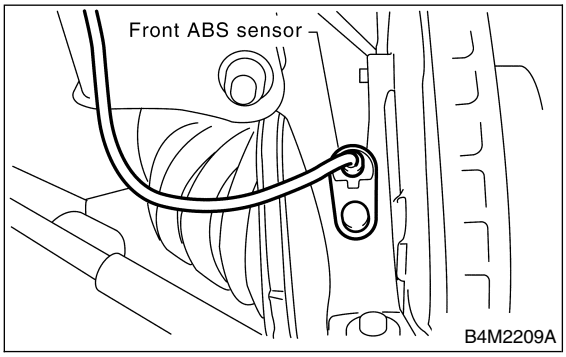


3) Remove bolts which secure sensor harness to body.



4) 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.**

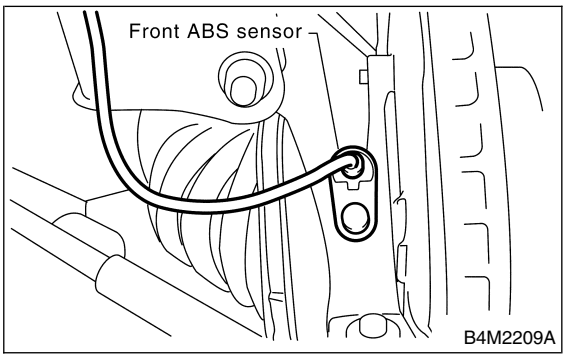


5) Remove front disc brake caliper and disc rotor from housing after removing front tire.

B: INSTALLATION S401190A11

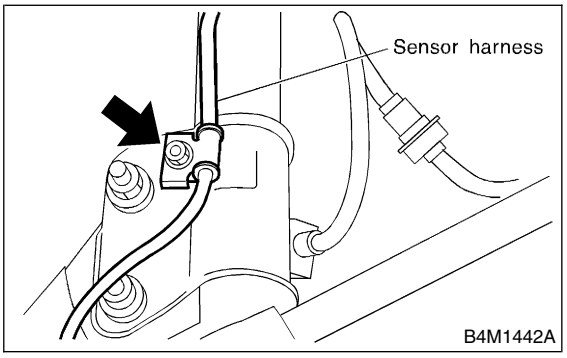
1) Temporarily install front ABS sensor on housing.

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)



3) Place a thickness gauge between ABS sensor's pole piece 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. (RH: white, LH: yellow)

NOTE:
If the clearance is outside specifications, readjust.

C: INSPECTION S401190A10

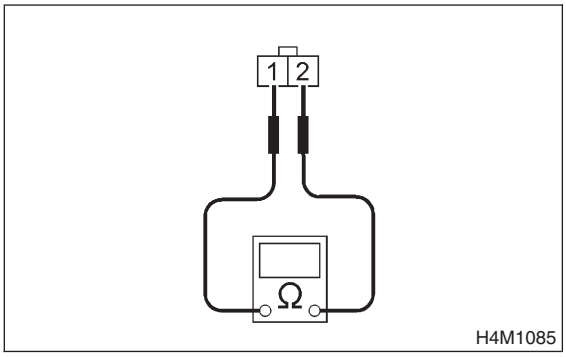
1. ABS SENSOR S401190A1001

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.

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

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

ABS sensor	Terminal No.	Standard
Front - LH	1 and 2	1.0±1.5 kΩ
Front - RH	1 and 2	
Rear - LH	1 and 2	1.0±0.2 kΩ
Rear - RH	1 and 2	

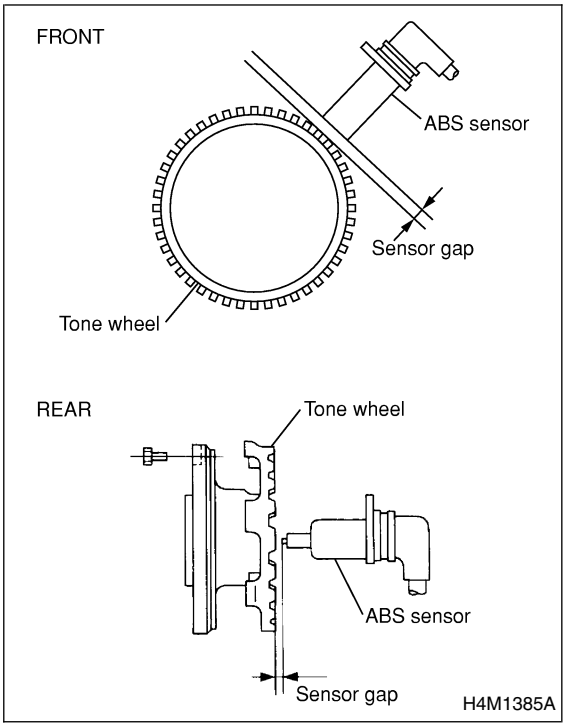


2. SENSOR GAP S401190A1002

1) Check tone wheel's teeth (44 pieces) for cracks or dents. If necessary, replace tone wheel with a new one.
2) Clearances (sensor gaps) should be measured one by one to ensure tone wheel and speed sensor are installed correctly.

NOTE:
● If clearance is narrow, adjust by using spacer (Part No. 26755AA000).
● If clearance is wide, check the outputted voltage then replace ABS sensor or tone wheel if the outputted voltage is outside the specification.

ABS sensor clearance:
Front
0.3 — 0.8 mm (0.012 — 0.031 in)
Rear
0.7 — 1.2 mm (0.028 — 0.047 in)



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.