

E: INSTALLATION

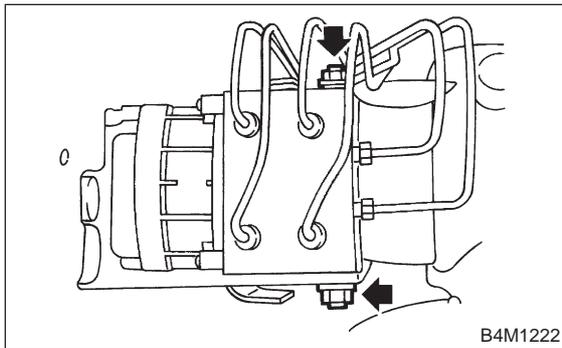
- 1) Install ABSCM&H/U.

CAUTION:

Confirm that the specifications of the ABSCM&H/U conforms to the vehicle specifications.

Tightening torque:

$18 \pm 5 \text{ N}\cdot\text{m}$ ($1.8 \pm 0.5 \text{ kg}\cdot\text{m}$, $13.0 \pm 3.6 \text{ ft}\cdot\text{lb}$)



- 2) Connect brake pipes to their correct ABSCM&H/U connections.

Brake pipe tightening torque:

$15^{+3}_{-2} \text{ N}\cdot\text{m}$ ($1.5^{+0.3}_{-0.2} \text{ kg}\cdot\text{m}$, $10.8^{+2.2}_{-1.4} \text{ ft}\cdot\text{lb}$)

- 3) Using cable clip, secure ABSCM&H/U harness to bracket.
- 4) Connect connector to ABSCM&H/U.

CAUTION:

- Be sure to remove all foreign matter from inside the connector before connecting.
- Ensure that the ABSCM&H/U connector is securely locked.

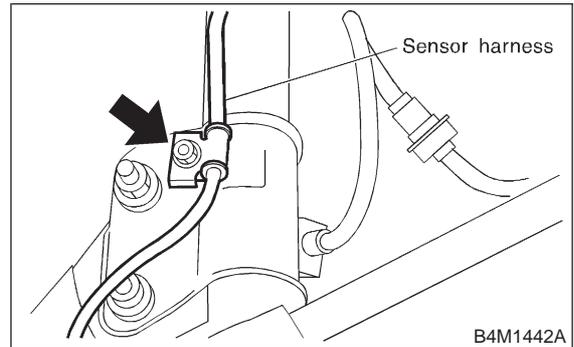
- 5) Install air intake duct.
- 6) Connect ground cable to battery.
- 7) Bleed air from the brake system.

16. G Sensor

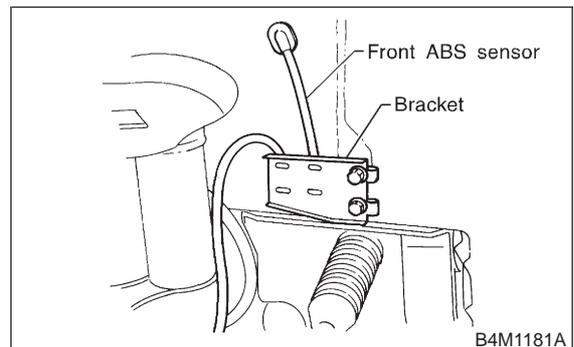
A: REMOVAL

1. FRONT ABS SENSOR

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



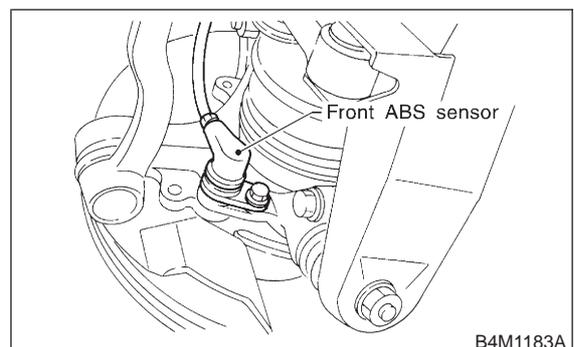
- 3) Remove bolts which secure sensor harness to body.



- 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.



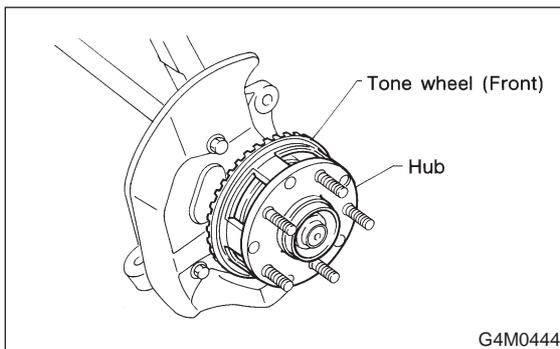
- 5) Remove front disc brake caliper and disc rotor from housing after removing front tire.

6) Remove front drive shaft and housing and hub assembly. <Ref. to 4-2 [W1A0].>

7) Remove tone wheel while removing hub from housing and hub assembly. <Ref. to 4-2 [W1B0].>

CAUTION:

Be careful not to damage teeth faces of tone wheel during removal.

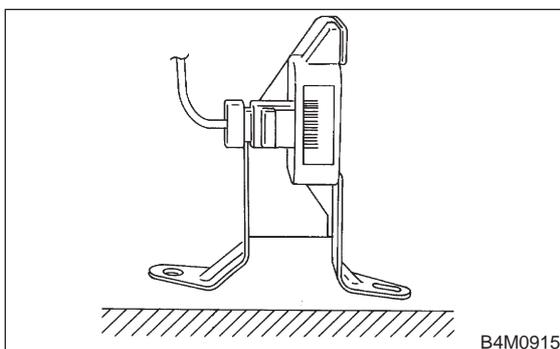


B: INSPECTION WITH CIRCUIT TESTER

16B1 : CHECK G SENSOR.

- 1) Turn ignition switch to OFF.
- 2) Remove G sensor from vehicle.
- 3) Connect connector to G sensor.
- 4) Turn ignition switch to ON.
- 5) Measure voltage between G sensor connector terminals.

Connector & terminal
(P11) No. 2 (+) — No. 3 (-)

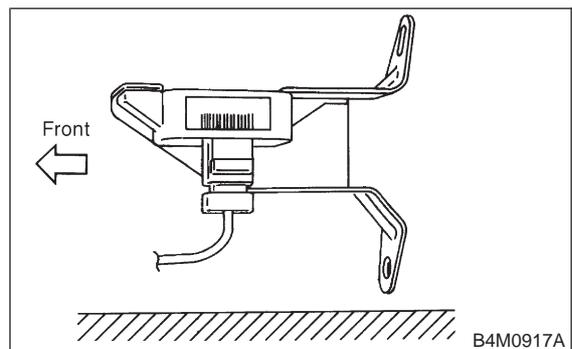


- CHECK** : **Is the voltage 2.3 ± 0.2 V when G sensor is horizontal?**
- YES** : Go to step 16B2.
- NO** : Replace G sensor.

16B2 : CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

Connector & terminal
(P11) No. 2 (+) — No. 3 (-)

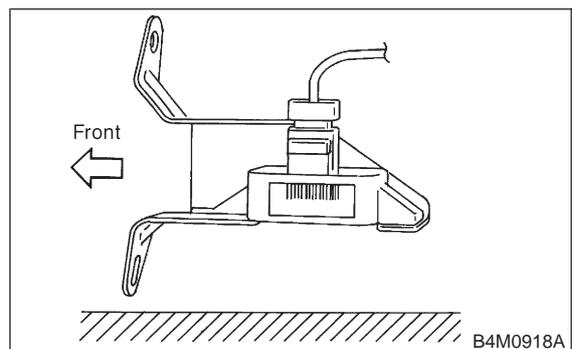


- CHECK** : **Is the voltage 3.9 ± 0.2 V when G sensor is inclined forwards to 90°?**
- YES** : Go to step 16B3.
- NO** : Replace G sensor.

16B3 : CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

Connector & terminal
(P11) No. 2 (+) — No. 3 (-)



- CHECK** : **Is the voltage 0.7 ± 0.2 V when G sensor is inclined backwards to 90°?**
- YES** : G sensor is normal.
- NO** : Replace G sensor.

C: INSPECTION WITH SELECT MONITOR

16C1 : CHECK G SENSOR.

- 1) Turn ignition switch to OFF.
- 2) Connect select monitor connector to data link connector.
- 3) Turn select monitor into {ABS/TCS} mode.
- 4) Set the display in the {Current Data Display & Save} mode.
- 5) Read the G sensor output voltage.

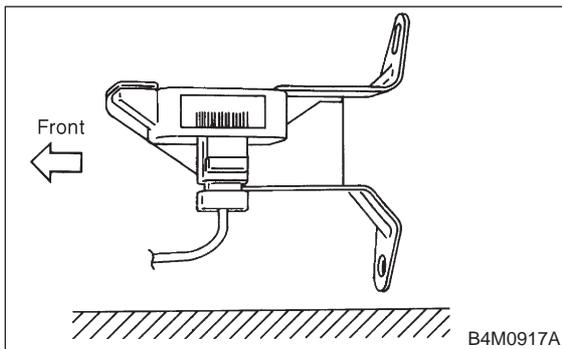
CHECK : *Is the indicated reading 2.3 ± 0.2 V when the vehicle is in horizontal position?*

YES : Go to step 16C2.

NO : Replace G sensor.

16C2 : CHECK G SENSOR.

- 1) Remove console box.
- 2) Remove G sensor from vehicle. (Do not disconnect connector.)
- 3) Read the select monitor display.



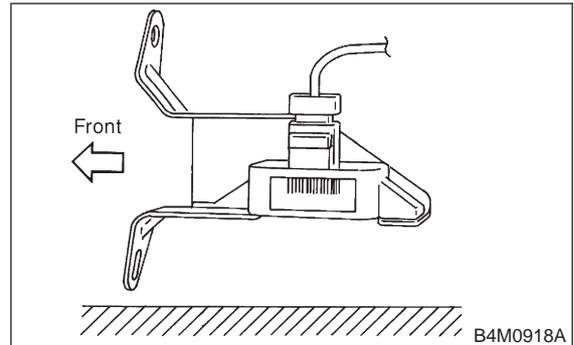
CHECK : *Is the indicated reading 3.9 ± 0.2 V when G sensor is inclined forwards to 90°?*

YES : Go to step 16C3.

NO : Replace G sensor.

16C3 : CHECK G SENSOR.

Read the select monitor display.



CHECK : *Is the indicated reading 0.7 ± 0.2 V when G sensor is inclined backwards to 90°?*

YES : G sensor is normal.

NO : Replace G sensor.

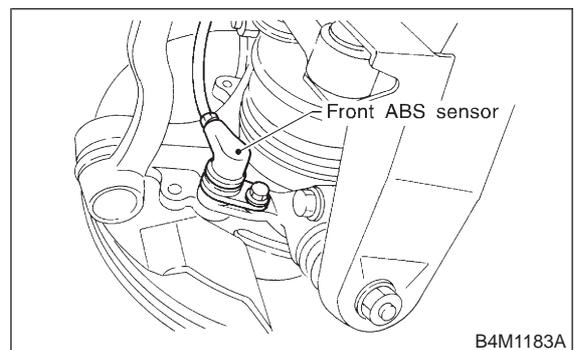
D: INSTALLATION

1. FRONT ABS SENSOR

- 1) Install tone wheel on hub, then install housing on hub assembly. <Ref. to 4-2 [W1D0].>
- 2) 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.

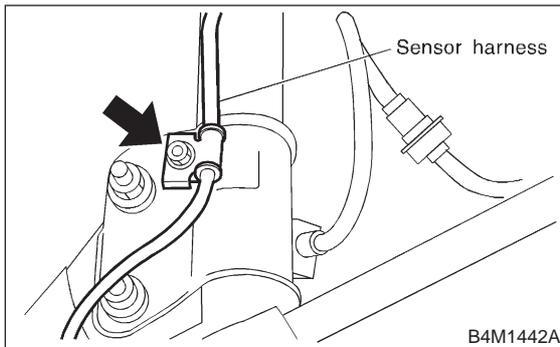


- 3) Install front drive shaft to hub spline. <Ref. to 4-2 [W1E0].>

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

Tightening torque:

$32 \pm 10 \text{ N}\cdot\text{m}$ ($3.3 \pm 1.0 \text{ kg}\cdot\text{m}$, $24 \pm 7 \text{ ft}\cdot\text{lb}$)



5) 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:

$0.9 - 1.4 \text{ mm}$ ($0.035 - 0.055 \text{ in}$)

Tightening torque:

$32 \pm 10 \text{ N}\cdot\text{m}$ ($3.3 \pm 1.0 \text{ kg}\cdot\text{m}$, $24 \pm 7 \text{ ft}\cdot\text{lb}$)

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.

17. Brake Pipe AIRBAG

A: SUPPLEMENTAL RESTRAINT SYSTEM "AIRBAG"

Airbag system wiring harness is routed near the center brake pipe.

CAUTION:

- All Airbag system wiring harness and connectors are colored yellow. Do not use electrical test equipment on these circuit.
- Be careful not to damage Airbag system wiring harness when servicing the center brake pipe.

B: REMOVAL AND INSTALLATION

CAUTION:

- When removing and installing the brake pipe, make sure that it is not bent.
- After installing the brake pipe and hose, bleed the air.
- After installing the brake hose, make sure that it does not touch the tire or suspension assembly, etc.

Brake pipe tightening torque:

$15^{+3}_{-2} \text{ N}\cdot\text{m}$ ($1.5^{+0.3}_{-0.2} \text{ kg}\cdot\text{m}$, $10.8^{+2.2}_{-1.4} \text{ ft}\cdot\text{lb}$)