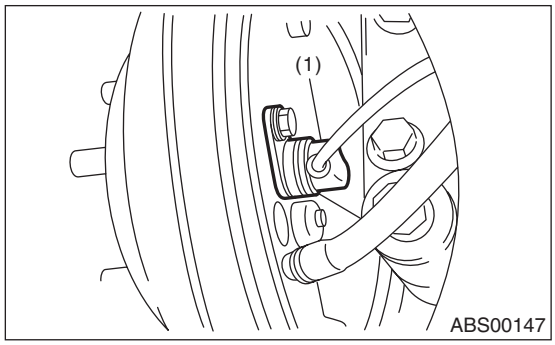
5. Rear ABS Wheel Speed Sensor

A: REMOVAL

1) Disconnect the ground cable from the battery.
2) Lift-up the vehicle.
3) Remove the rear seat and disconnect the rear ABS wheel speed sensor connector.
4) Remove the rear sensor harness bracket from the rear trailing link and bracket.
5) Remove the rear ABS wheel speed sensor from the back plate.

CAUTION:
• Be careful not to damage the pole piece and the face of the teeth located at tip of the sensor during removal.
• Do not pull on the sensor harness during removal.



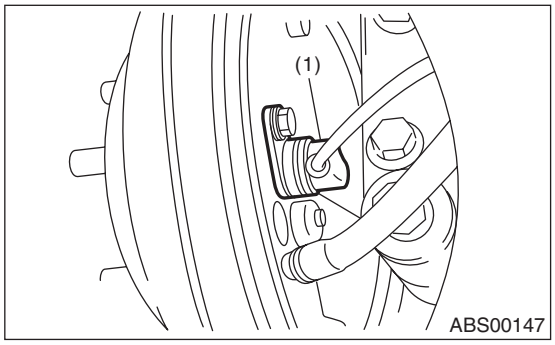
(1) Rear ABS wheel speed sensor

6) Remove the rear tone wheel when removing the hub from the housing and hub assembly. <Ref. to DS-21, REMOVAL, Rear Axle.>

B: INSTALLATION

1) Attach the hub to the rear tone wheel and attach the rear housing. <Ref. to DS-27, ASSEMBLY, Rear Axle.>
2) Temporarily attach the rear ABS wheel speed sensor to the back plate.

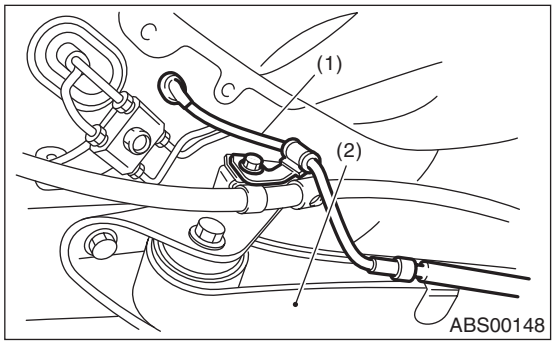
CAUTION:
Be careful not to hit the ABS wheel speed sensor pole piece and tone wheel against adjacent metal parts during installation.



(1) Rear ABS wheel speed sensor

3) Install the rear drive shaft to the rear housing and rear differential spindle. <Ref. to DS-24, INSTALLATION, Rear Axle.>
4) Install the rear sensor harness on the rear trailing link.

Tightening torque:
33 N·m (3.4 kgf-m, 24.6 ft-lb)



(1) Rear sensor harness
(2) Trailing link

5) Check the clearance of the sensor. <Ref. to ABS-18, SENSOR GAP, INSPECTION, Rear ABS Wheel Speed Sensor.> When the clearance is within standard values, tighten the ABS wheel speed sensor to the back plate at the specified torque.
If clearance is outside of the standard value, readjust by using the spacer (Part No. 26755AA000).

ABS wheel speed sensor gap standard value:
0.7 — 1.2 mm (0.028 — 0.047 in)

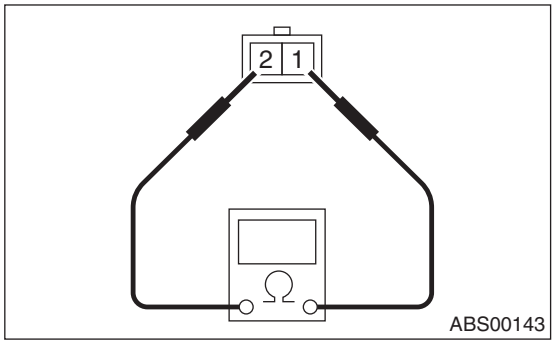
Tightening torque:
33 N·m (3.4 kgf-m, 24.6 ft-lb)

NOTE:
Check the identification (mark) on the harness to make sure there is no warpage. (RH: White, LH: Yellow)
6) After confirmation of the ABS wheel speed sensor clearance, connect the connector to the ABS wheel speed sensor.
7) Connect the ground cable to the battery.

C: INSPECTION

1. ABS WHEEL SPEED SENSOR

1) Check the pole piece of the ABS wheel speed sensor for foreign particles or damage. If necessary, clean the pole piece or replace the ABS wheel speed sensor.
2) Measure the ABS wheel speed sensor resistance.
If resistance is outside the standard value, replace with a new ABS wheel speed sensor.



Terminal No.	Specification
1 and 2	1.15±0.115 kΩ

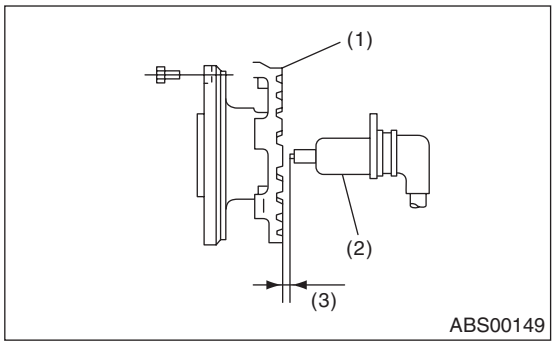
NOTE:
Check the ABS wheel speed sensor cable for discontinuity. If necessary, replace with a new part.

2. SENSOR GAP

Check the gap between the tone wheel and the ABS wheel speed sensor around the entire circumference.

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

ABS wheel speed sensor gap standard value:
0.7 — 1.2 mm (0.028 — 0.047 in)



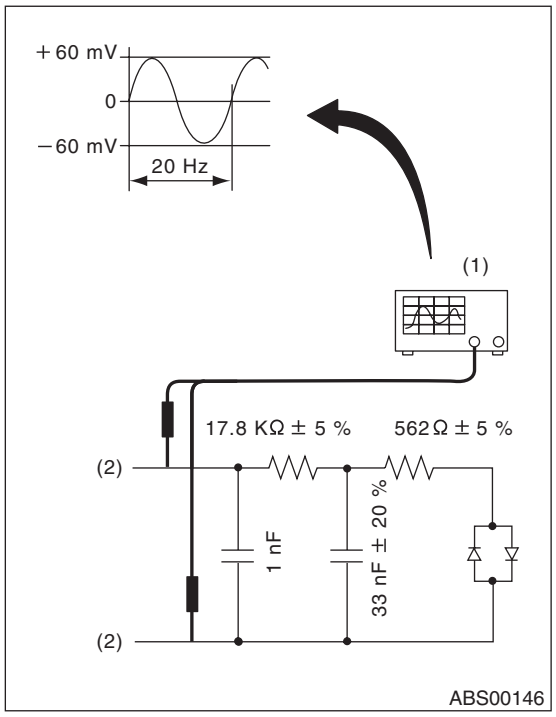
(1) Tone wheel
(2) ABS wheel speed sensor
(3) Sensor gap

3. OUTPUT VOLTAGE

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

Standard value of output voltage:
0.12 — 1 V at (20 Hz)

NOTE:
Regarding terminal numbers, refer to 1. ABS WHEEL SPEED SENSOR. <Ref. to ABS-18, ABS WHEEL SPEED SENSOR, INSPECTION, Rear ABS Wheel Speed Sensor.>



(1) Oscilloscope
(2) Terminals

D: ADJUSTMENT

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