

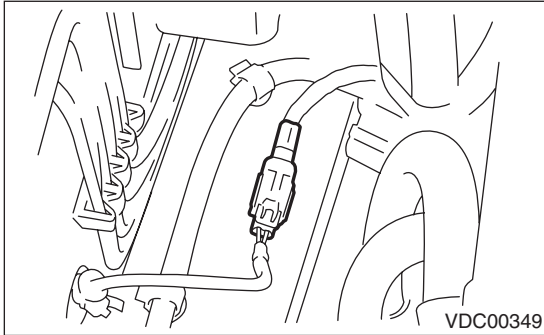
# Front ABS Wheel Speed Sensor

VEHICLE DYNAMICS CONTROL (VDC)

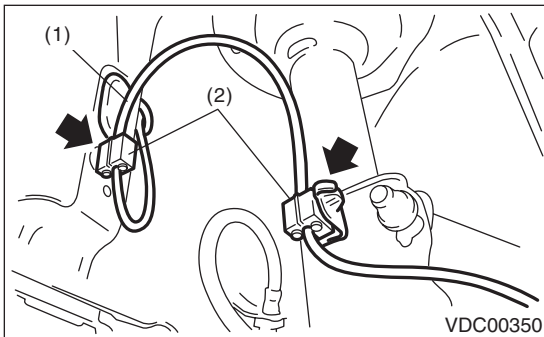
## 7. Front ABS Wheel Speed Sensor

### A: REMOVAL

- 1) Disconnect the ground cable from the battery.
- 2) Disconnect the ABS wheel speed sensor connector in the engine compartment.



- 3) Remove the sensor harness from the clip.

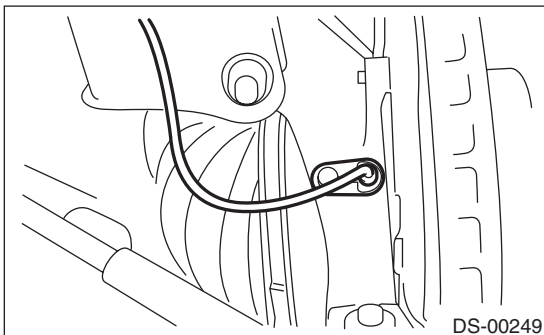


- (1) To the front ABS wheel speed sensor connector
- (2) Clip

- 4) Remove the clip which secures the sensor harness to the front strut.
- 5) Remove the front ABS wheel speed sensor from housing.

### CAUTION:

- Be careful not to damage the sensor.
- Do not apply excessive force to the sensor harness.



### B: INSTALLATION

Install in the reverse order of removal.

#### Tightening torque:

**7.5 N·m (0.76 kgf-m, 5.53 ft-lb)**

### CAUTION:

**Be careful not to damage the sensor.**

### NOTE:

- Check the identification (mark) on the harness to make sure there is no warpage. (W1 (White))
- Check if the harness is not pulled and does not come in contact with the suspension or body during steering wheel effort.

## C: INSPECTION

### 1. CHECK WITH SUBARU SELECT MONITOR

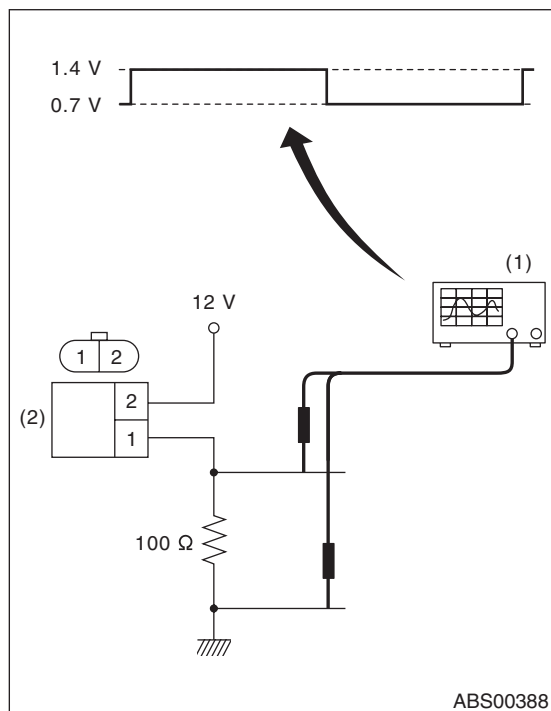
- 1) Connect the Subaru Select Monitor to the data link connector.
- 2) Select {Current Data Display & Save}. Check if the speed indicated on the display changes in the same manner as the speedometer reading during acceleration/deceleration when the steering wheel is in the straight-ahead position.
- 3) If the speed indicated on the display does not change, check the ABS wheel speed sensor. <Ref. to VDC-23, ABS WHEEL SPEED SENSOR, INSPECTION, Front ABS Wheel Speed Sensor.>

### 2. ABS WHEEL SPEED SENSOR

- 1) Check the tip of the ABS wheel speed sensor for foreign particles or damage. If necessary, clean the tip or replace the ABS wheel speed sensor.
- 2) Connect a 12 V power supply to No. 2 terminal of sensor connector as shown in the figure, then attach resistance to the No. 1 terminal. Rotate the wheel at about 2.75 km/h (2 MPH), and measure the voltage using an oscilloscope.

**Standard value of output voltage:**

**0.7 — 1.4 V**



- (1) Oscilloscope
- (2) ABS wheel speed sensor