

6. Steering Angle Sensor

A: REPLACEMENT

CAUTION:

- Do not perform the removal except unless replacing.
- If the sensor needs replacement, replace along with the combination switch assembly once every three times for the protection of the threaded portion.

1) Set the steering wheel in a straight-ahead position.

2) Disconnect the ground cable from battery.

3) Remove the airbag module.

<Ref. to AB-15, REMOVAL, Driver's Airbag Module.>

WARNING:

Always refer to "Airbag System" when performing the airbag module repair service.

<Ref. to AB-5, CAUTION, General Description.>

4) Remove the steering wheel.

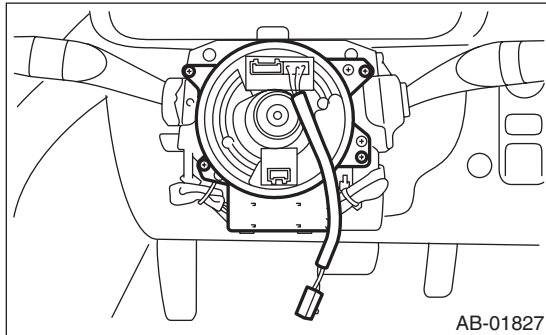
<Ref. to PS-12, REMOVAL, Steering Wheel.>

5) Remove the screws and remove the steering column lower cover.

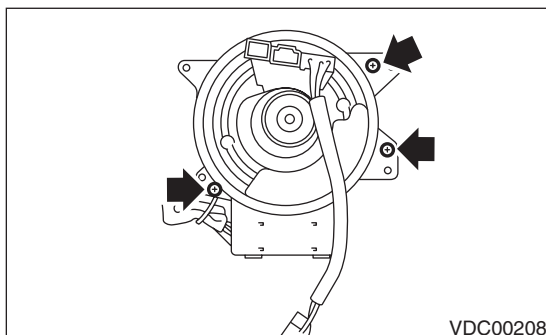
6) Remove the two screws securing the steering column upper cover.

7) Disconnect the connector of roll connector and steering angle sensor.

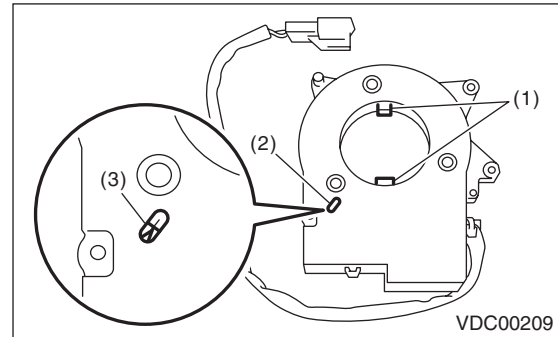
8) Remove the screws which secure the roll connector to steering column.



9) Remove the vinyl tape binding the harness, and remove the steering angle sensor from roll connector.



10) Turn the protrusion portion of new steering angle sensor to match the alignment mark of inspection hole.



(1) Protrusion portion

(2) Inspection hole

(3) Alignment mark

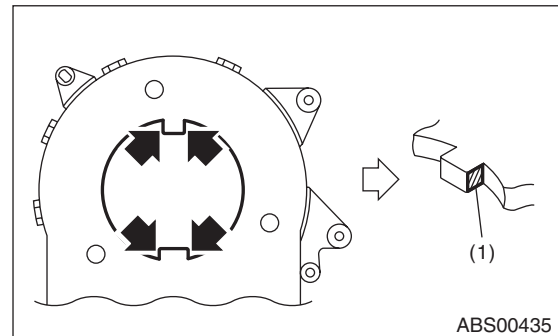
CAUTION:

Be careful not to allow foreign matter to enter into inspection hole.

11) Align the center of roll connector.

<Ref. to AB-26, INSTALLATION, Roll Connector.>

12) Apply the grease provided with the new part on the 4 locations of the protrusion on the steering angle sensor.

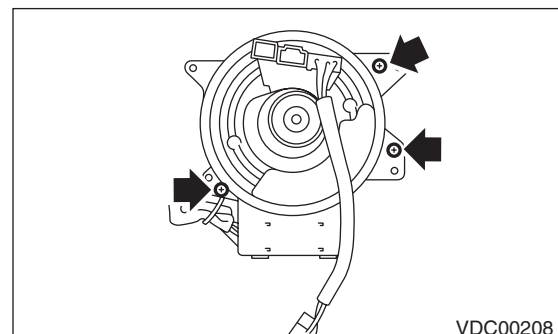


(1) Grease application location

13) Align the position of the protrusion and install roll connector to steering angle sensor.

Tightening torque:

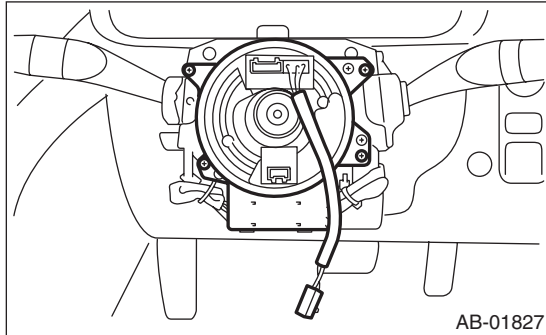
0.5 N·m (0.05 kgf-m, 0.36 ft-lb)



Steering Angle Sensor

VEHICLE DYNAMICS CONTROL (VDC)

14) Install the roll connector to combination switch and bind the harness with vinyl tape as originally bound.



15) Install the steering wheel.
<Ref. to PS-12, INSTALLATION, Steering Wheel.>

Tightening torque:

39 N·m (4.0 kgf-m, 28.8 ft-lb)

16) Install the airbag module to the steering wheel.
<Ref. to AB-15, INSTALLATION, Driver's Airbag Module.>

WARNING:

Always refer to “Airbag System” before performing the service operation.

<Ref. to AB-5, CAUTION, General Description.>

17) Connect the ground cable to battery.

CAUTION:

After completion of installation, adjust the following two positions.

- Positioning to the center of steering angle sensor

- Positioning the yaw rate & G sensors to zero

The above procedure is required for the VDC-CM to identify vehicle position afterward. For the setting procedures of the 2 steps above, refer to “VDC Control Module and Hydraulic Control Unit (VDCCM&H/U)”. <Ref. to VDC-12, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>