

6. Steering Angle Sensor

A: REPLACEMENT

CAUTION:

- Do not perform the removal except when the replacement.
- When replacing three times or more, replace the combination switch as assembly to protect the threads.

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

2) Disconnect the ground cable from the battery.

3) Remove the airbag module.

<Ref. to AB-14, REMOVAL, Driver's Airbag Module. >

WARNING:

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

<Ref. to AB-4, CAUTION, General Description. >

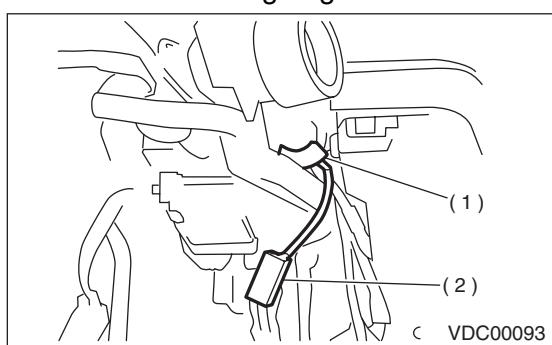
4) Remove the steering wheel.

<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.

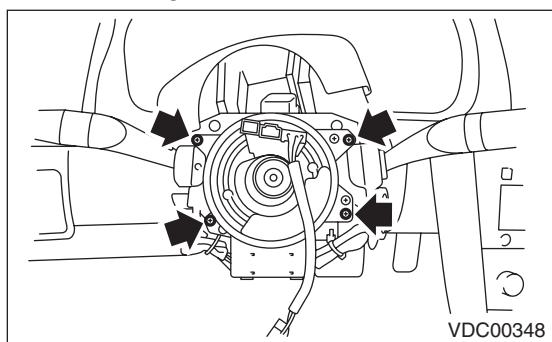
7) Unlock the harness band and disconnect the connector of the steering angle sensor.



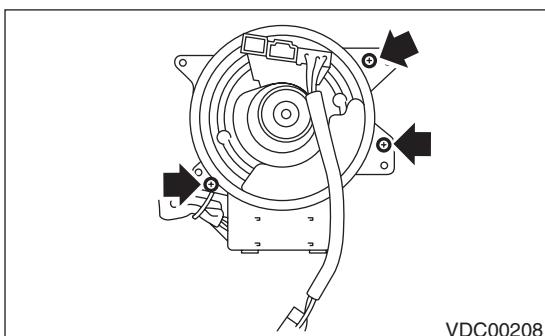
(1) Harness band

(2) Connector

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

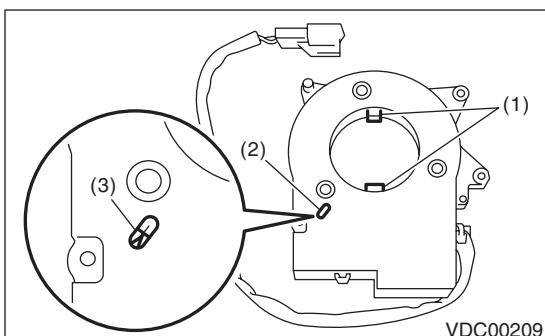


9) Remove the steering angle sensor from roll connector.



VDC00208

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



VDC00209

(1) Protrusion portion

(2) Inspection hole

(3) Alignment mark

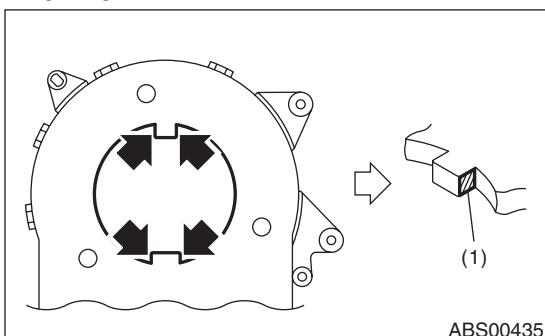
CAUTION:

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

11) Align the center of roll connector.

<Ref. to AB-24, ADJUSTMENT, Roll Connector. >

12) Apply a thin coat of grease that is supplied with the new part, to the 4 protruding sections of the steering angle sensor.



ABS00435

(1) Apply grease.

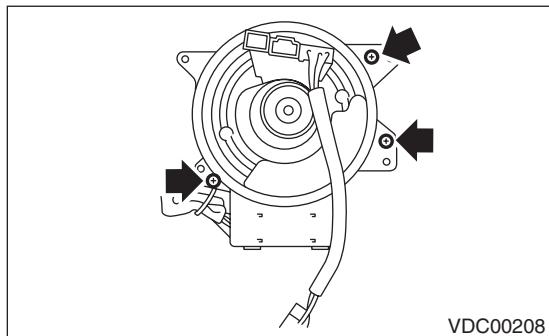
Steering Angle Sensor

VEHICLE DYNAMICS CONTROL (VDC)

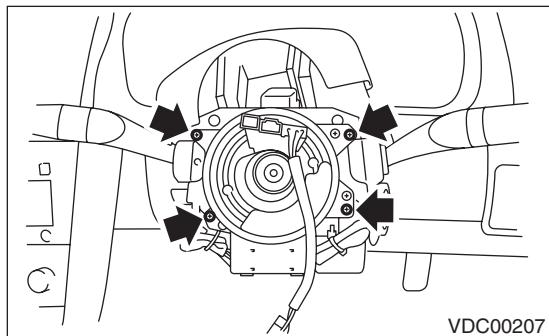
13) Align the position of the protrusion and install roll connector to steering angle sensor.

Tightening torque:

0.5 N·m (0.05 kgf·m, 0.36 ft-lb)



14) Install the roll connector to combination switch.



15) Install the steering wheel.

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

Tightening torque:

45 N·m (4.6 kgf·m, 33.2 ft-lb)

16) Install the airbag module to the steering wheel.

<Ref. to AB-14, INSTALLATION, Driver's Airbag Module.>

WARNING:

Always refer to "Airbag System" before performing the service operation.

<Ref. to AB-4, 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-11, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>