

Steering Angle Sensor

VEHICLE DYNAMICS CONTROL (VDC)

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.

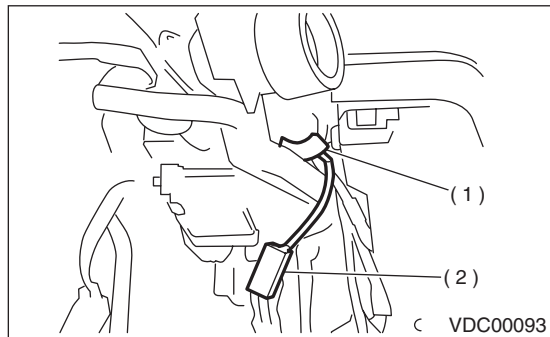
- 1) Set the steering wheel in a straight-ahead position.
- 2) Disconnect the ground cable from the battery.
- 3) Remove the airbag module.
<Ref. to AB-14, REMOVAL, Driver's Airbag Module.>

WARNING:

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

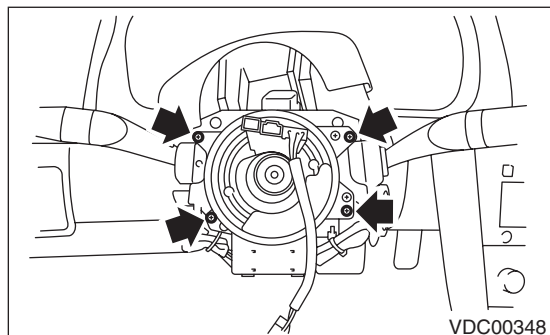
<Ref. to AB-4, CAUTION, General Description.>

- 4) Remove the steering wheel.
<Ref. to PS-13, 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.

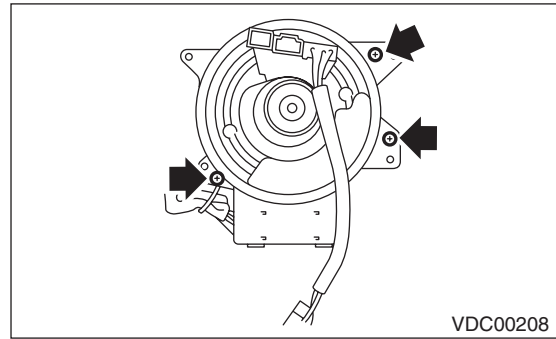


- (1) Harness band
- (2) Connector

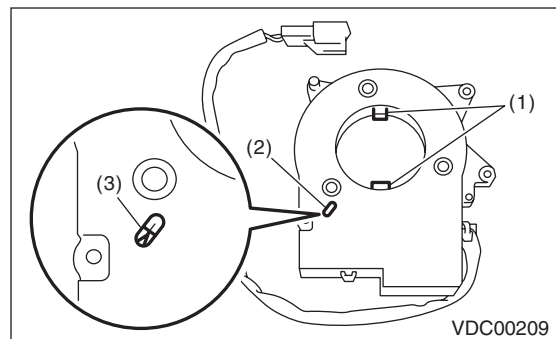
- 8) Remove the screws which secure the roll connector to steering column.



- 9) Remove the steering angle sensor from roll connector.



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

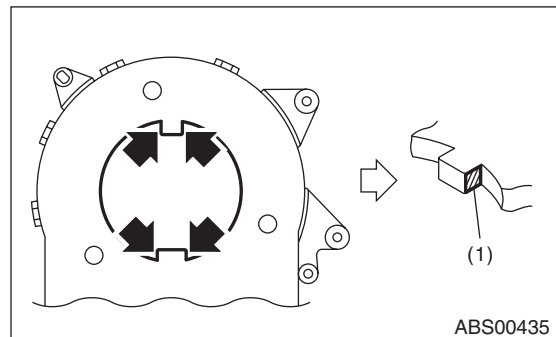


- (1) Protrusion portion
- (2) Inspection hole
- (3) Alignment mark

CAUTION:

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

- 11) Align the center of roll connector.
<Ref. to AB-22, 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.

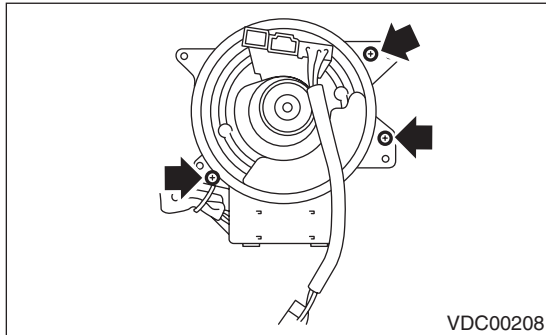


- (1) Apply grease.

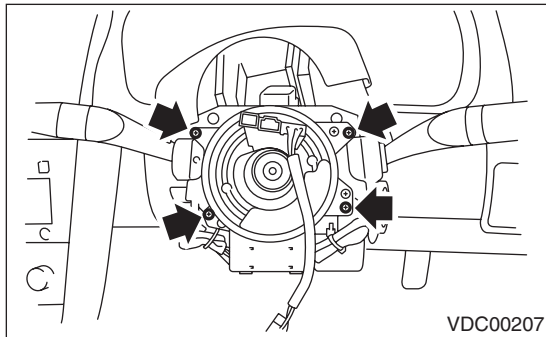
13) Align the position of the protrusion and install roll connector to steering angle sensor.

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-13, 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-12, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>