

6. Steering Angle Sensor

A: REPLACEMENT

CAUTION:

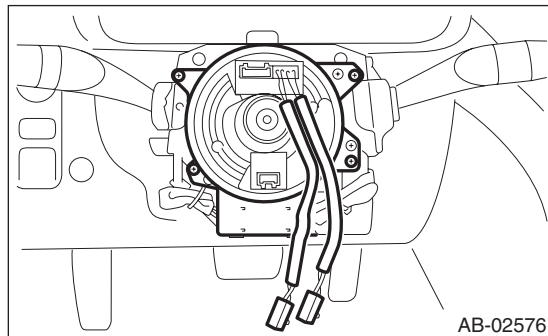
- Do not perform the removal except unless replacing.
- If the sensor needs replacement, replace along with the combination switch assembly once every three times for the protection of the threaded portion.

- 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-16, REMOVAL, Driver's Airbag Module.>

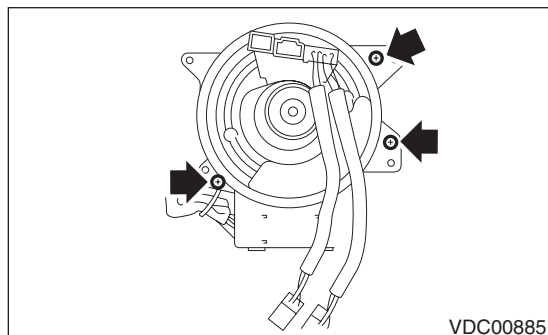
WARNING:

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.



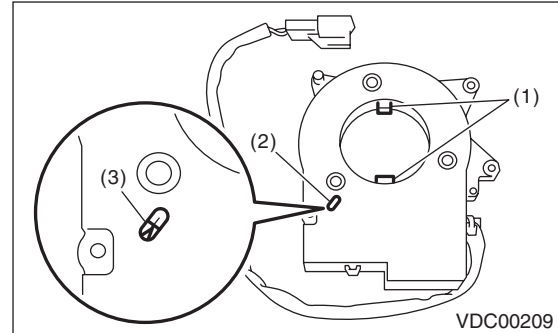
- 9) Remove the vinyl tape binding the harness, and remove the steering angle sensor from roll connector.



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

CAUTION:

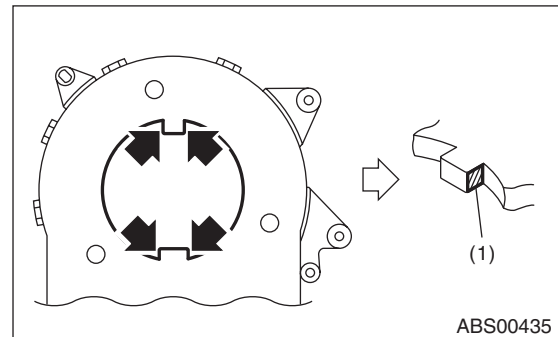
Be careful not to allow foreign matter to enter into inspection hole.



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

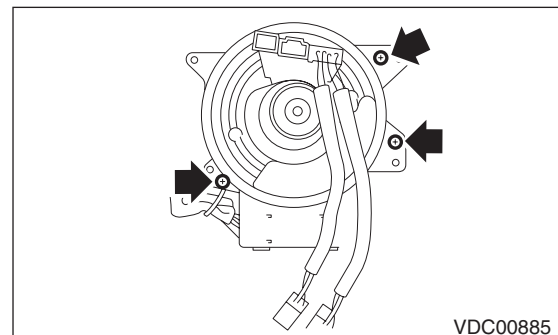
- 11) Align the center of roll connector. <Ref. to AB-27, INSTALLATION, Roll Connector.>

- 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.



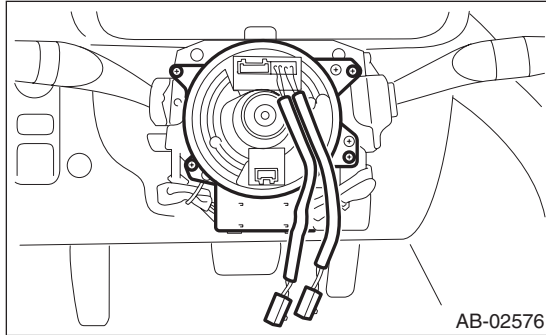
Tightening torque:

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-16, 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).>