

# Steering Angle Sensor

VEHICLE DYNAMICS CONTROL (VDC)

## 7. Steering Angle Sensor

### A: REPLACEMENT

#### CAUTION:

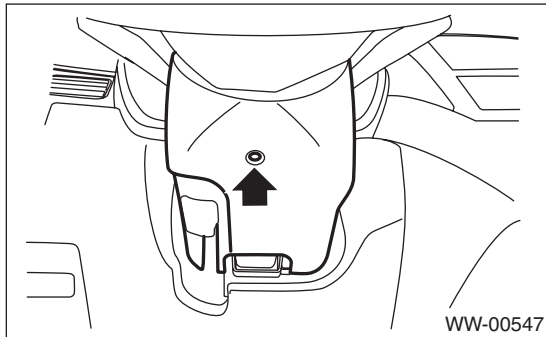
- Do not perform the removal except unless replacing.
- If the sensor needs replacement, replace along with the combination switch assembly once every three times for the protection of the threaded portion.

- 1) Set the steering wheel in a straight-ahead position.
- 2) Disconnect the ground cable from battery.
- 3) Remove the driver's airbag module. <Ref. to AB-15, REMOVAL, Driver's Airbag Module.>

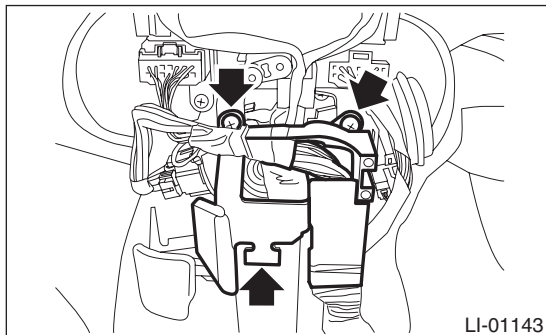
#### WARNING:

**Always refer to "Airbag System" when performing the airbag module repair service. <Ref. to AB-5, CAUTION, General Description.>**

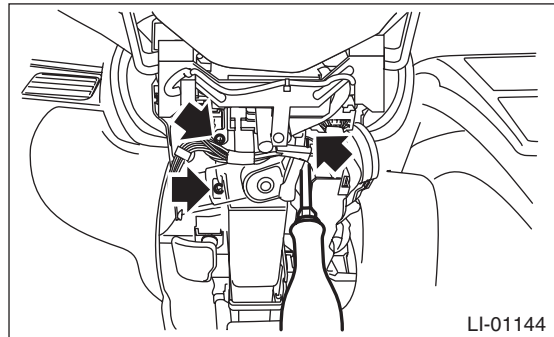
- 4) Remove the steering wheel. <Ref. to PS-13, REMOVAL, Steering Wheel.>
- 5) Remove the screws and remove the steering column cover lower.



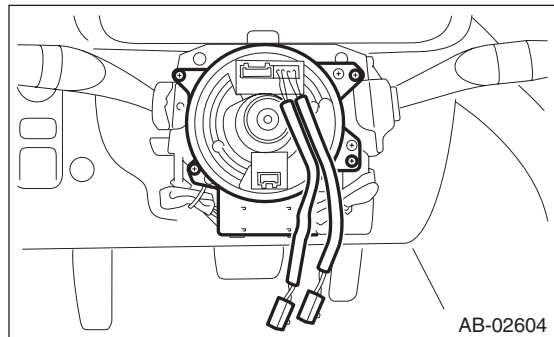
- 6) Remove the harness cover lock.
- 7) Remove the screws and detach the knee protector.



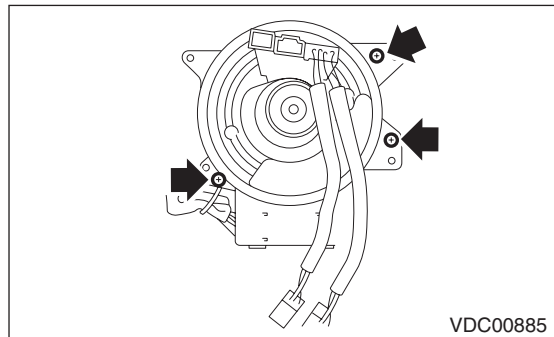
- 8) Remove the screws and remove the steering column cover upper.



- 9) Disconnect the connector of roll connector and steering angle sensor.
- 10) Remove the screws which secure the roll connector to steering column.



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



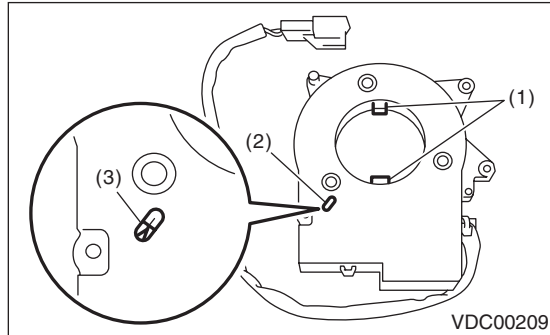
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12) Turn the protrusion portion of new steering angle sensor to match the alignment mark of inspection hole.

## CAUTION:

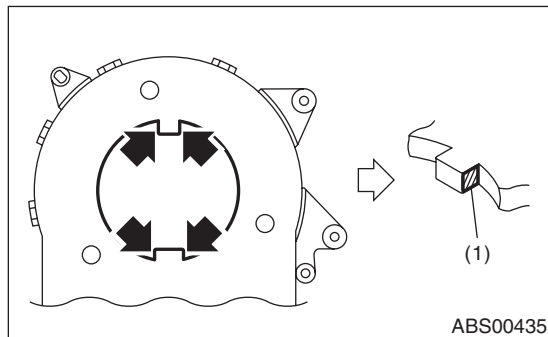
Be careful not to allow foreign matter to enter into inspection hole.



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

13) Align the center of roll connector. <Ref. to AB-26, INSTALLATION, Roll Connector.>

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

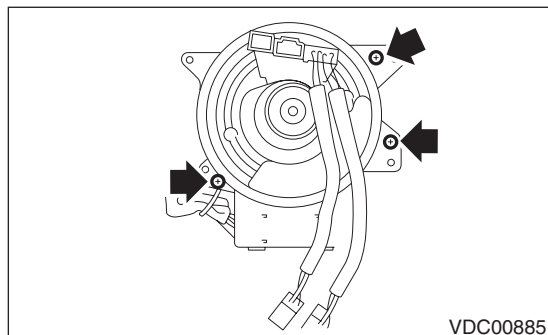


- (1) Grease application location

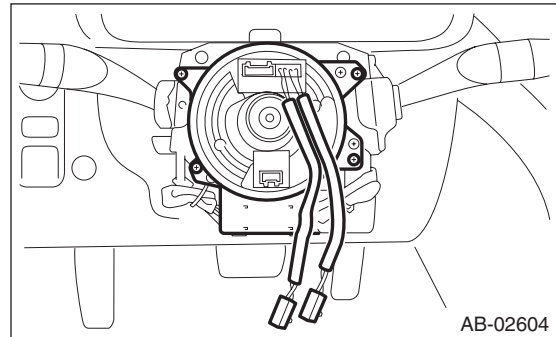
15) Align the position of the protrusion and install roll connector to steering angle sensor.

## Tightening torque:

**0.5 N·m (0.05 kgf-m, 0.36 ft-lb)**



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



17) Install the steering wheel. <Ref. to PS-13, INSTALLATION, Steering Wheel.>

## Tightening torque:

**39 N·m (3.98 kgf-m, 28.8 ft-lb)**

18) 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.>

19) 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 "Adjustment" in "VDC Control Module & Hydraulic Control Unit (VDCCM&H/U)". <Ref. to VDC-13, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>