

## 8. Steering Angle Sensor

### A: REPLACEMENT

**CAUTION:**

If the steering wheel and steering angle sensor are removed, perform the 0 point setting for each sensor. <Ref. to VDC-20, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

1) Position the front wheels straight ahead. (After moving a vehicle 5 m (16 ft) or more with front wheels positioned straight ahead, make sure that the vehicle moves straight ahead.)

2) Turn the ignition switch to OFF.

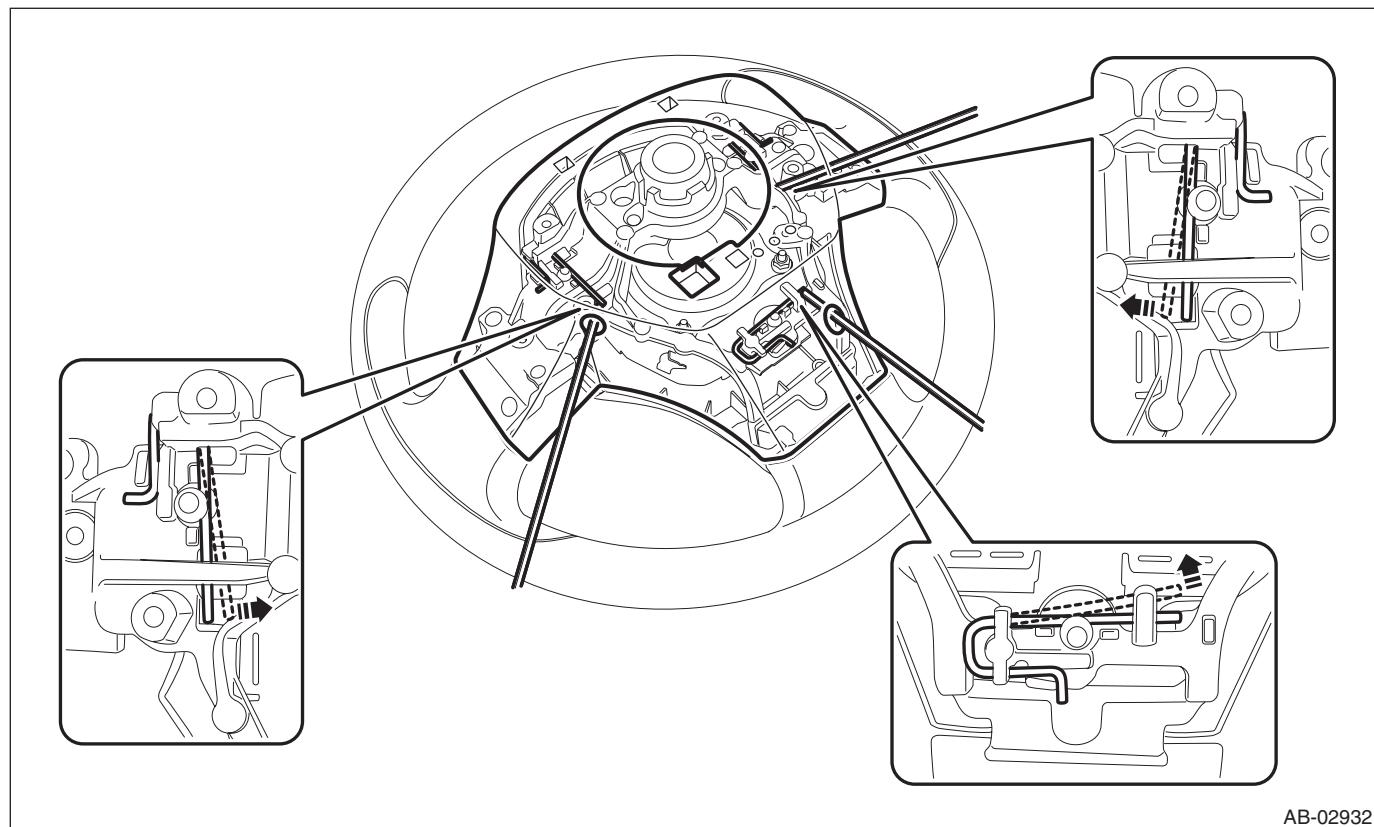
3) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.

**CAUTION:**

Always refer to "CAUTION" of "General Description" in the Airbag System before performing service on the airbag modules. <Ref. to AB-10, CAUTION, General Description.>

4) Remove the driver's airbag module assembly.

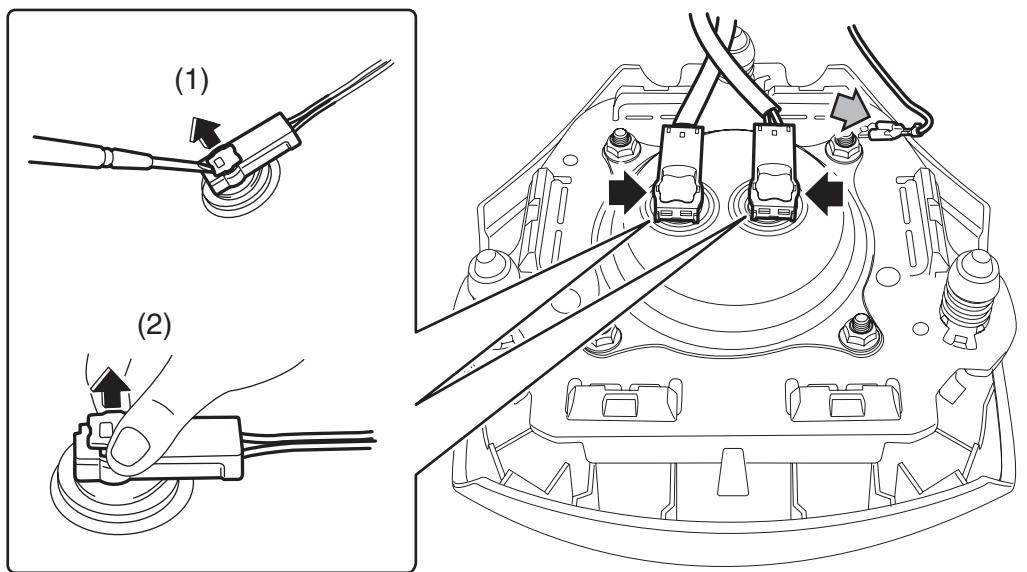
(1) Using a hexagon wrench etc. wrapped by protective tape, insert the snap pins and release the locks (3 locations).



# Steering Angle Sensor

VEHICLE DYNAMICS CONTROL (VDC)

(2) Disconnect the horn harness and airbag connector and remove the airbag module assembly. <Ref. to AB-22, DRIVER' AIRBAG MODULE, CURTAIN AIRBAG MODULE, PRETENSIONER & LAP SEAT BELT PRETENSIONER, PROCEDURE, Airbag Connector.>



AB-02720

5) Remove the steering wheel.

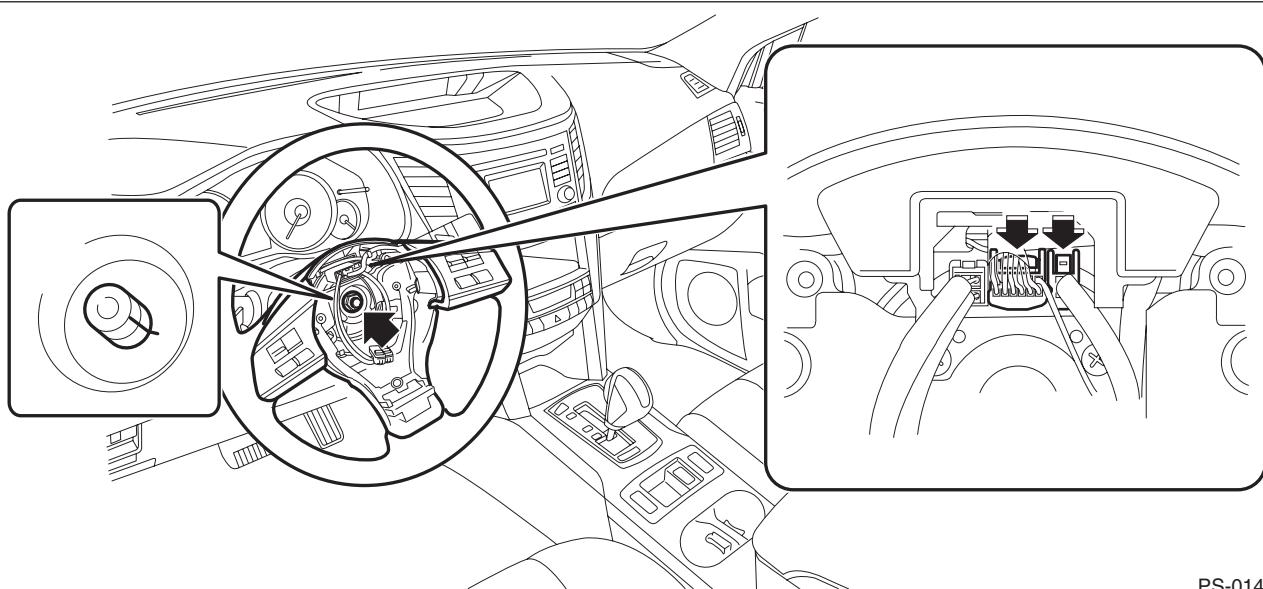
**CAUTION:**

- Always use the steering wheel puller for removal to avoid deforming the steering wheel.
- If the steering wheel has been removed, make sure that the roll connector is not turned from the original position.

- (1) Disconnect the connector and remove the nut.
- (2) Put alignment marks and remove the steering wheel.

**Preparation tool:**

**Steering wheel puller**



PS-01452

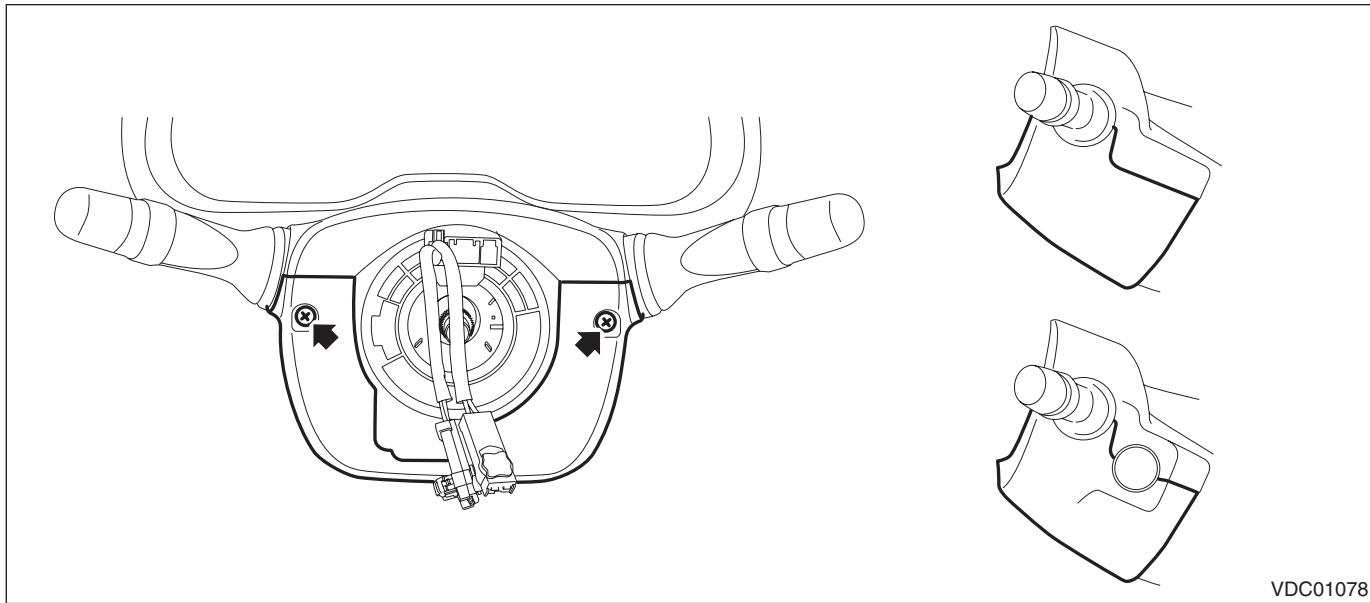
## Steering Angle Sensor

### VEHICLE DYNAMICS CONTROL (VDC)

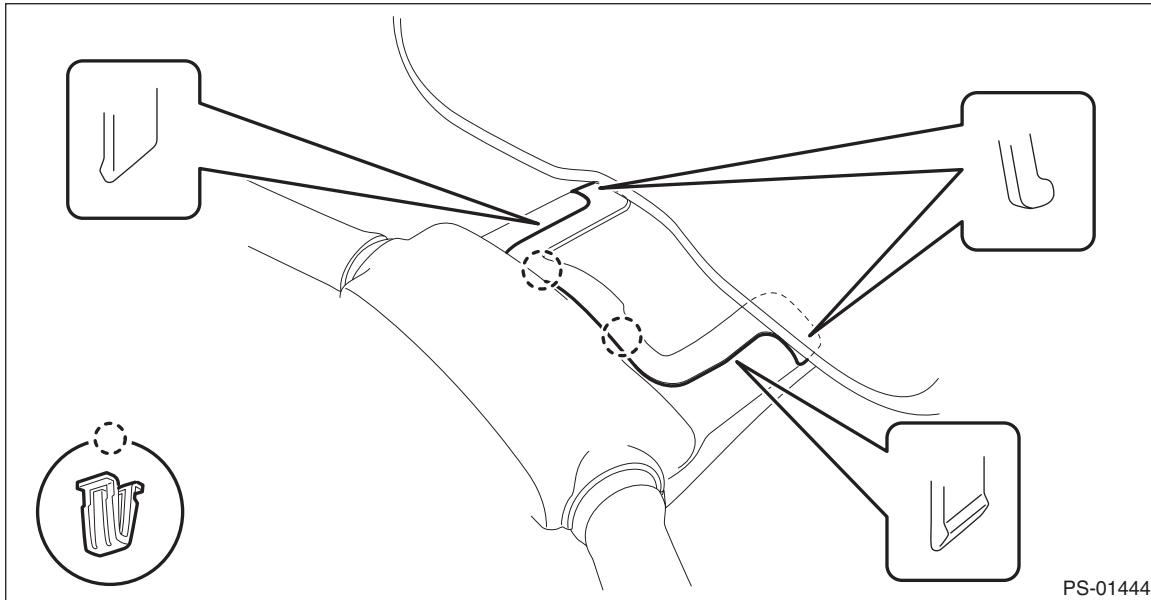
6) Remove the steering column cover.

(1) Lower the lever of the steering column.

(2) Release the claws and remove the screws, then detach the steering column lower cover.



(3) Separate the steering column upper cover and steering upper cover, and remove the steering column upper cover.



# Steering Angle Sensor

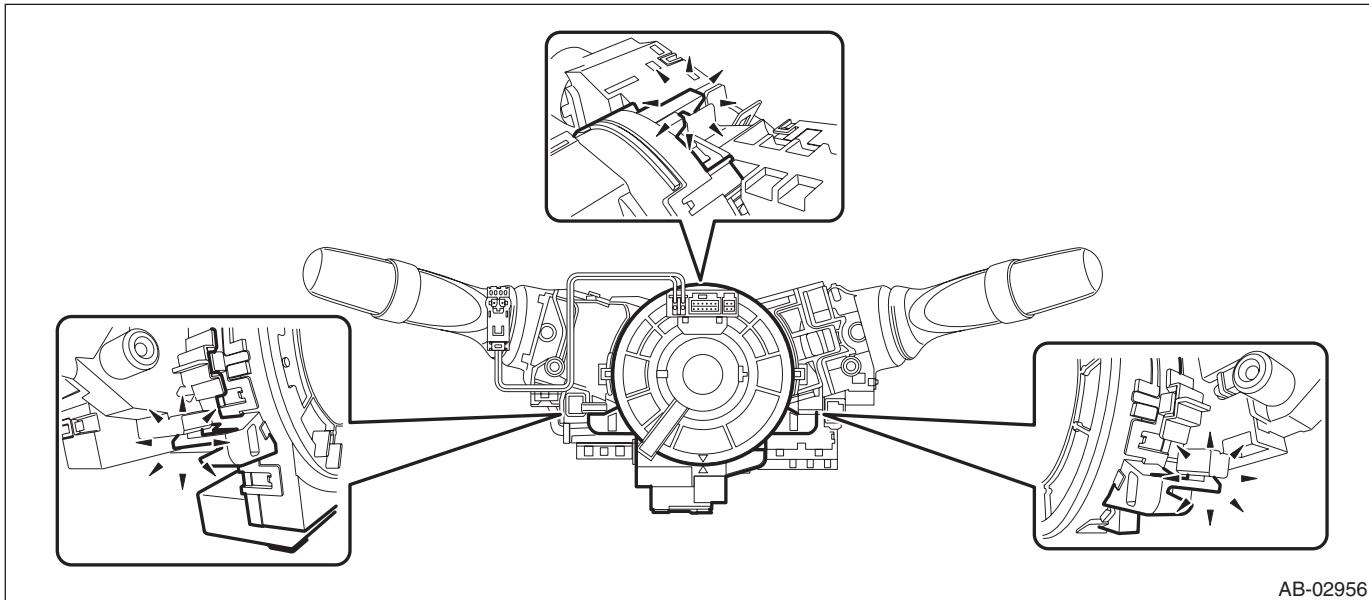
VEHICLE DYNAMICS CONTROL (VDC)

7) Remove the roll connector.

**CAUTION:**

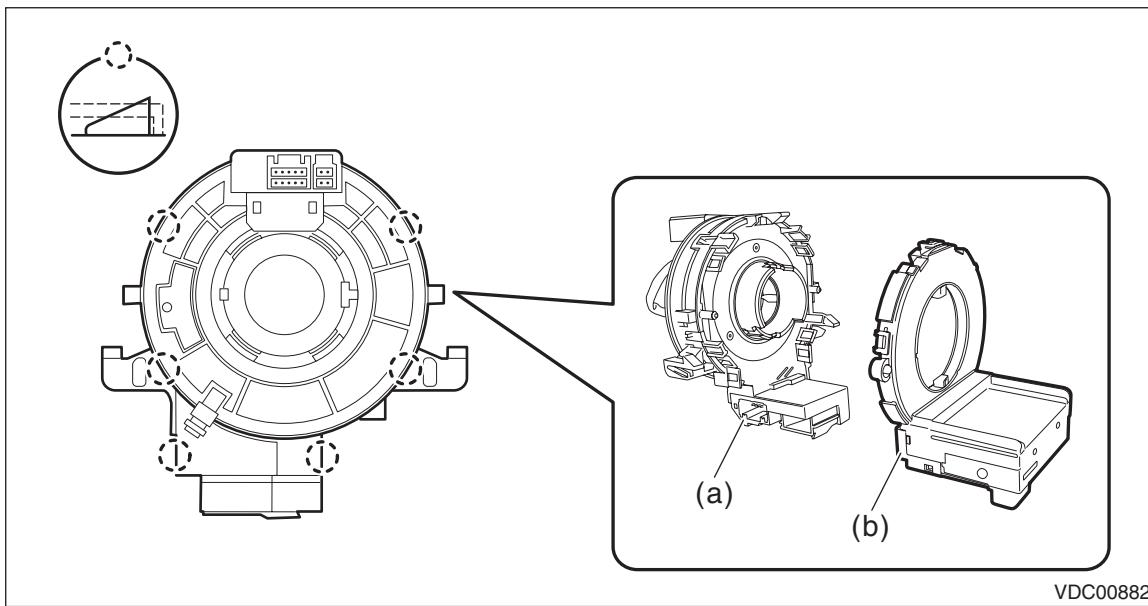
**Make sure that the roll connector is not turned from the original position.**

- (1) Disconnect the connector under the roll connector.
- (2) Release the claws and remove the roll connector.



8) Remove the steering angle sensor.

- (1) Release the claws and remove the steering angle sensor (b) from the roll connector (a).



# Steering Angle Sensor

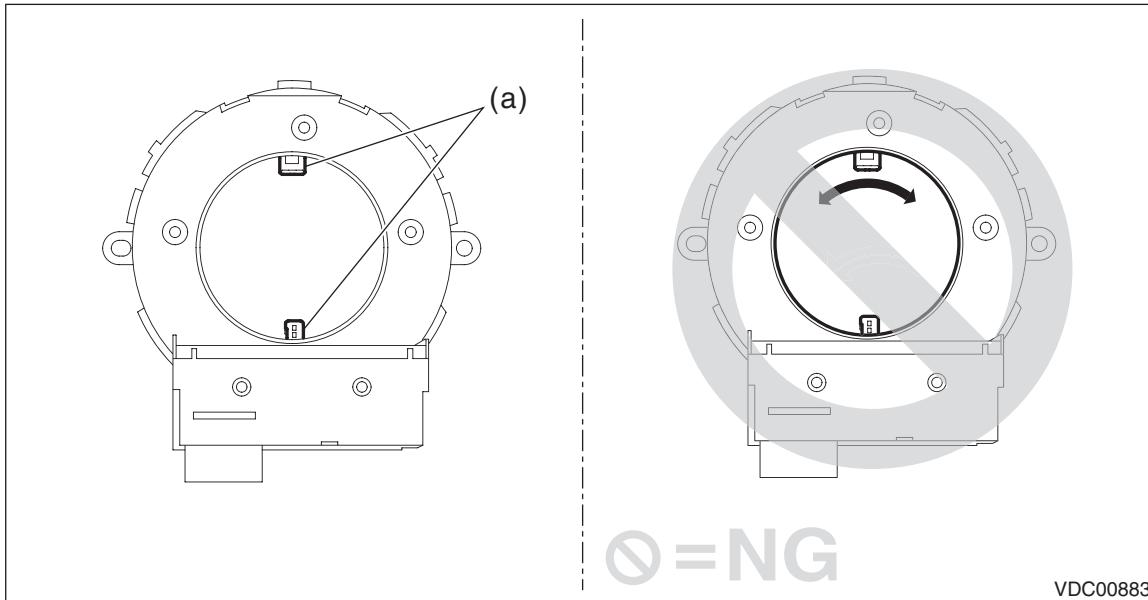
## VEHICLE DYNAMICS CONTROL (VDC)

9) Install the steering angle sensor.

(1) Apply grease to the protrusion (a) of the new steering angle sensor.

### CAUTION:

**Do not rotate the steering angle sensor protrusion.**



(2) Align the center of roll connector. <Ref. to AB-106, INSTALLATION, Roll Connector.>

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

10) Install each part in the reverse order of removal.

### Tightening torque:

**Steering wheel: 39 N·m (3.98 kgf·m, 28.8 ft-lb)**

### Clearance:

**Between column cover and steering wheel: 4 — 6 mm (0.16 — 0.24 in)**

11) After installation, perform the neutral position setting of the steering angle sensor. <Ref. to VDC-20, SET UP MODE FOR NEUTRAL OF STEERING ANGLE SENSOR & LATERAL G SENSOR 0 POINT, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>