

## 15.Roll Connector

### A: REMOVAL

- 1) Position the front wheels 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. <Ref. to NT-5, BATTERY, NOTE, Note.>

#### NOTE:

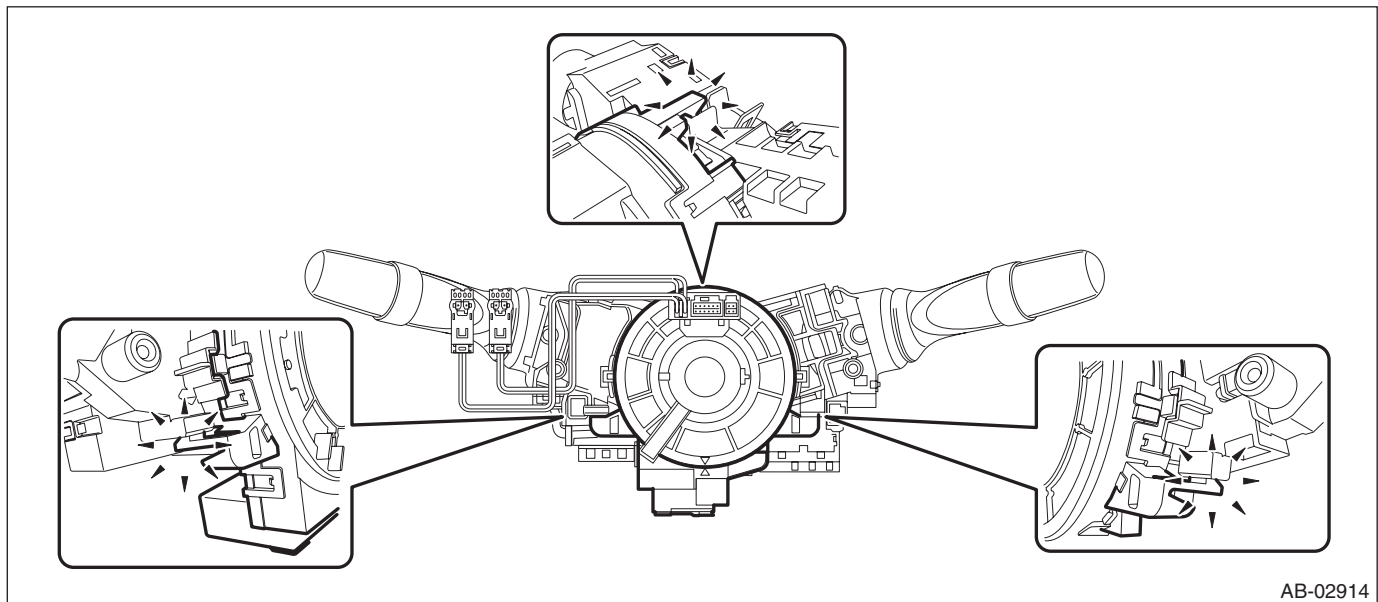
For models other than STI model, disconnect the ground terminal from battery sensor.

- 4) Remove the driver's airbag module. <Ref. to AB-33, REMOVAL, Driver's Airbag Module.>
- 5) Remove the steering wheel. <Ref. to PS-16, REMOVAL, Steering Wheel.>
- 6) Remove the cover assembly - column. <Ref. to PS-25, REMOVAL, Steering Column.>
- 7) Remove the roll connector.

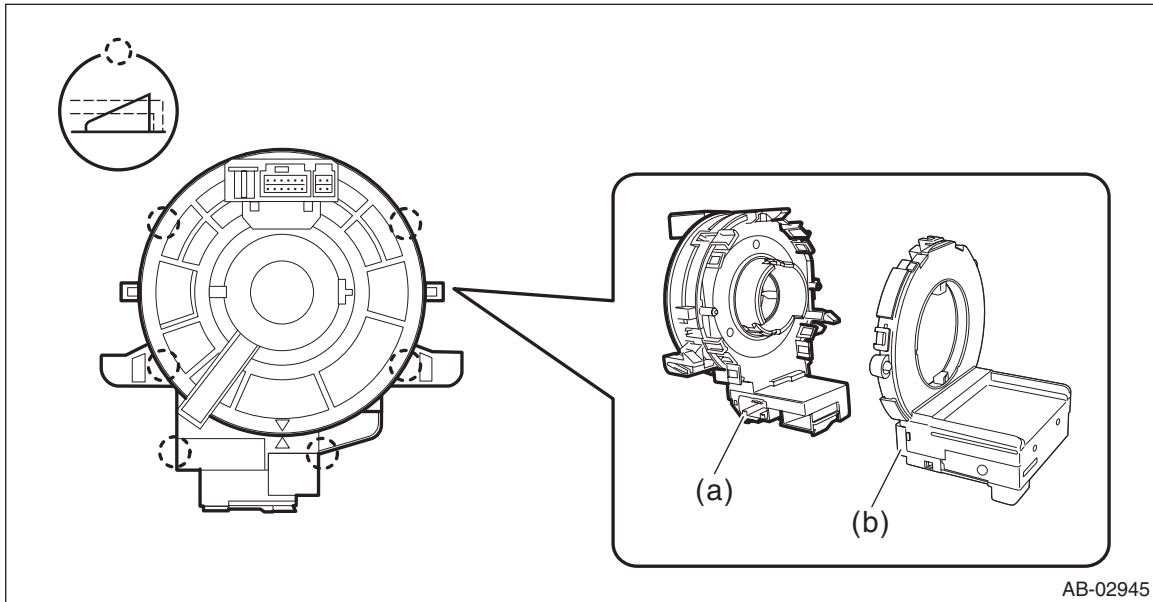
#### CAUTION:

**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.



- (3) Release the claws and separate the roll connector (a) and steering angle sensor (b).

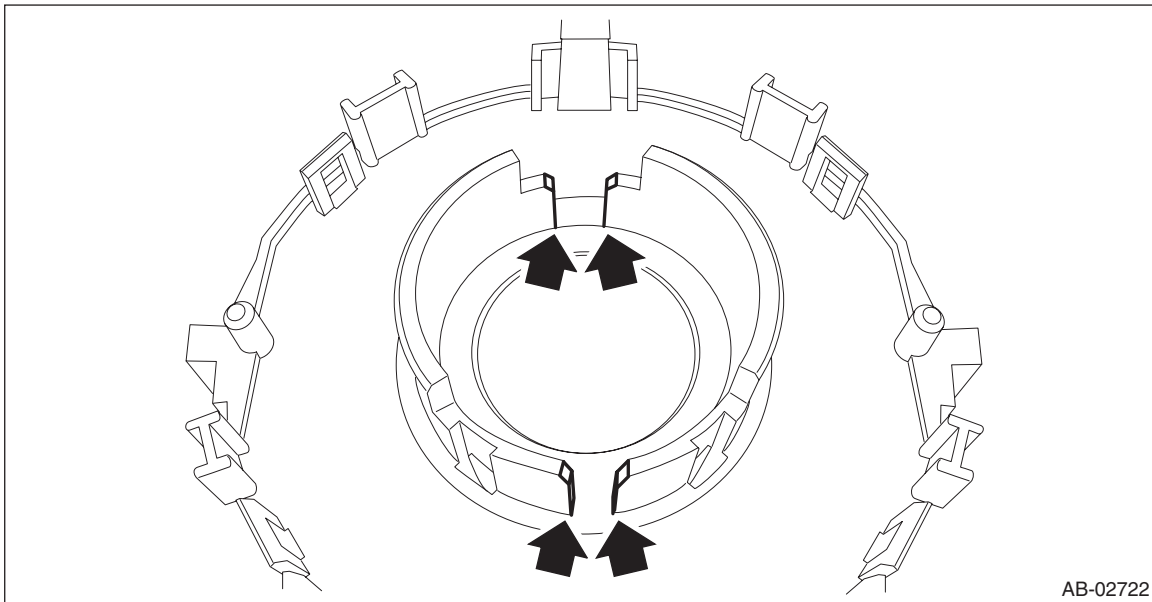


## B: INSTALLATION

### CAUTION:

If the steering wheel and steering angle sensor are removed, perform “VDC sensor midpoint setting mode” of the VDC.

- 1) Before attaching a new roll connector, apply a thin coat of grease contained in the connector onto the areas shown by the arrows.



- 2) Install the cover assembly - column.
- 3) Install the roll connector.
- 4) Align the center position of the steering roll connector. <Ref. to AB-64, ADJUSTMENT, Roll Connector.>
- 5) Install the steering wheel.

### Tightening torque:

**Steering wheel: 39 N·m (4.0 kgf-m, 28.8 ft-lb)**

### Clearance:

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

- 6) Install the driver's airbag module. <Ref. to AB-34, INSTALLATION, Driver's Airbag Module.>

# Roll Connector

## AIRBAG SYSTEM

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7) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

### NOTE:

For models other than STI model, connect the ground terminal to battery sensor.

8) Perform the neutral position setting of the steering angle sensor. <Ref. to VDC-16, VDC SENSOR MID-POINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

## C: INSPECTION

### 1. VISUAL INSPECTION

Check for the following, and replace the damaged parts with new parts.

- Combination switch is cracked or deformed.
- Roll connector is cracked or deformed.

### 2. UNIT INSPECTION OF ROLL CONNECTOR

#### CAUTION:

- **Do not rotate the roll connector to more than the specified number of turns. Otherwise, the roll connector internal wire may be broken.**
- **When determining the end stop, rotate the connector slowly without applying excessive force. Applying excessive force at the end stop may break the internal wire.**

1) Adjust the roll connector. <Ref. to AB-64, ADJUSTMENT, Roll Connector.>

2) Set the roll connector to the central position.

3) Connect the test harness to the connector E and connector F.

#### **Preparation tool:**

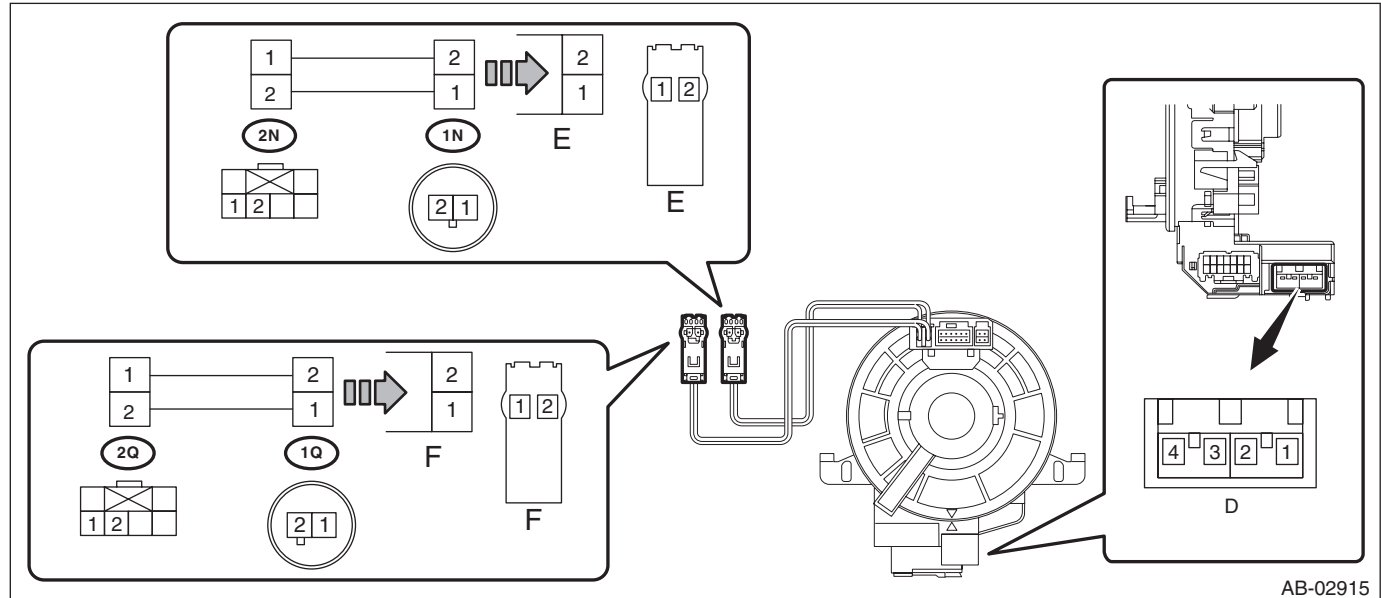
**Test harness N (98299SA000)**

**Test harness Q (98299SA040)**

- Connector E - Test harness N (1N)
- Connector F - Test harness Q (1Q)

- 4) With the following conditions, check the resistance between the test harness connector terminals.
- Perform the check with the roll connector centered (front wheels direct straightforward).
  - Rotate the roll connector counterclockwise from the center (front wheels direct straightforward) to an end stop. Then, perform the check while rotating it clockwise to approximately 4.5 turns.

**Preparation tool:**  
**Circuit tester**



AB-02915

Terminal No.	Inspection conditions	Standard
(2N) No. 1 — (2N) No. 2	Always	Less than 1 $\Omega$
(2Q) No. 1 — (2Q) No. 2	Always	Less than 1 $\Omega$

**NOTE:**

The connector D is designed to short the terminals D1/D2 and D3/D4 when disconnected.

- 5) Replace the roll connector with a new part if the inspection result is not within the standard.

# Roll Connector

AIRBAG SYSTEM

## D: ADJUSTMENT

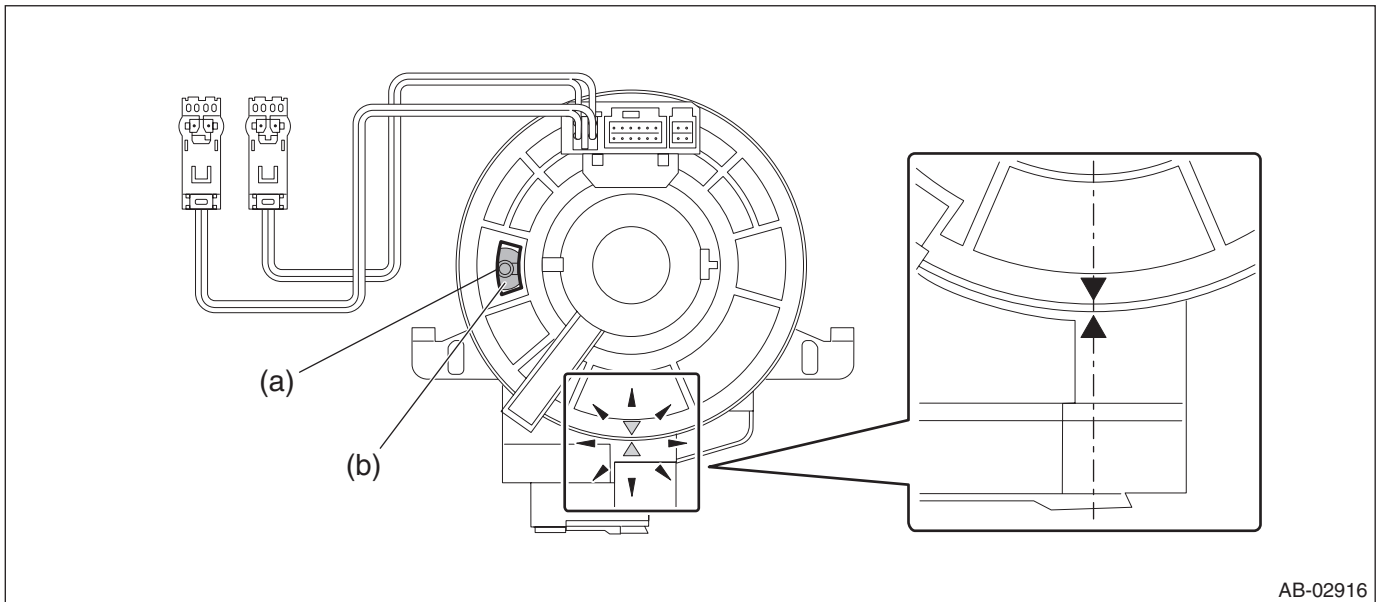
### CAUTION:

- Do not rotate the roll connector to more than the specified number of turns. Otherwise, the roll connector internal wire may be broken.
- When determining the end stop, rotate the connector slowly without applying excessive force. Applying excessive force at the end stop may break the internal wire.

- 1) Check that front wheels are positioned in straight ahead direction.
- 2) Rotate the roll connector counterclockwise until it stops.
- 3) Rotate the roll connector clockwise approx. 2.5 turns until “▲” marks are aligned.

### NOTE:

When the roll connector comes to the center position, the orange roller (b) can be seen from the sight glass (a).



AB-02916