

Steering Column

POWER ASSISTED SYSTEM (POWER STEERING)

5. Steering Column

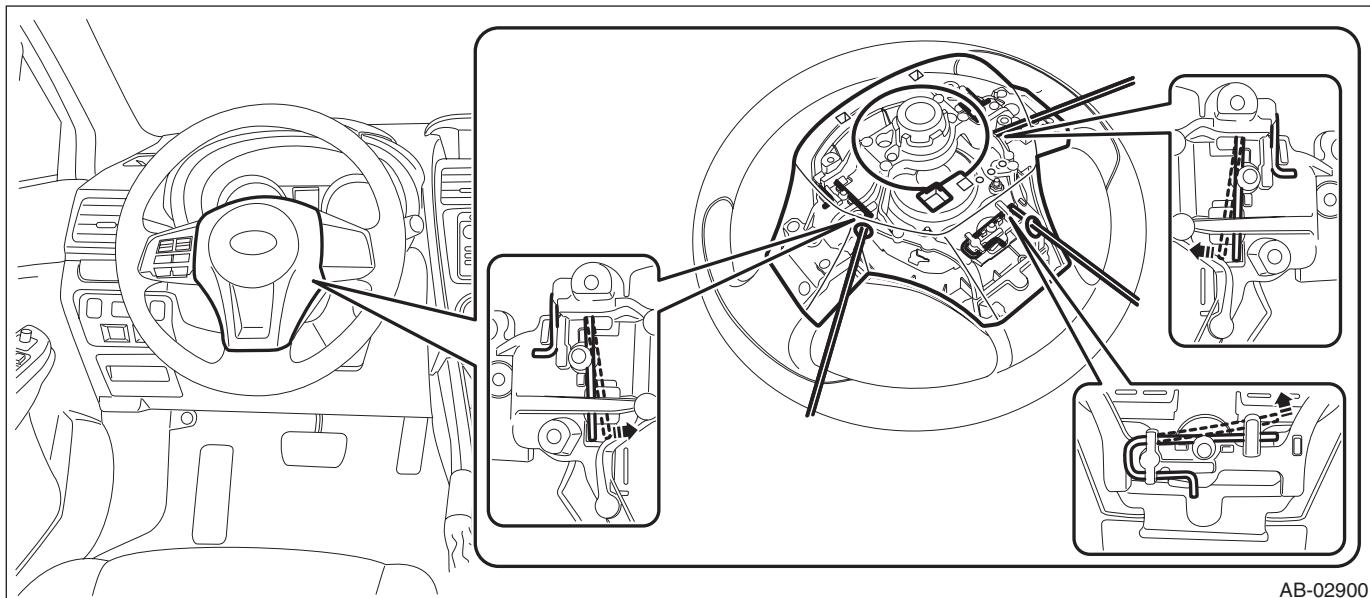
A: REMOVAL

- 1) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.
- 2) Remove the driver's airbag module.

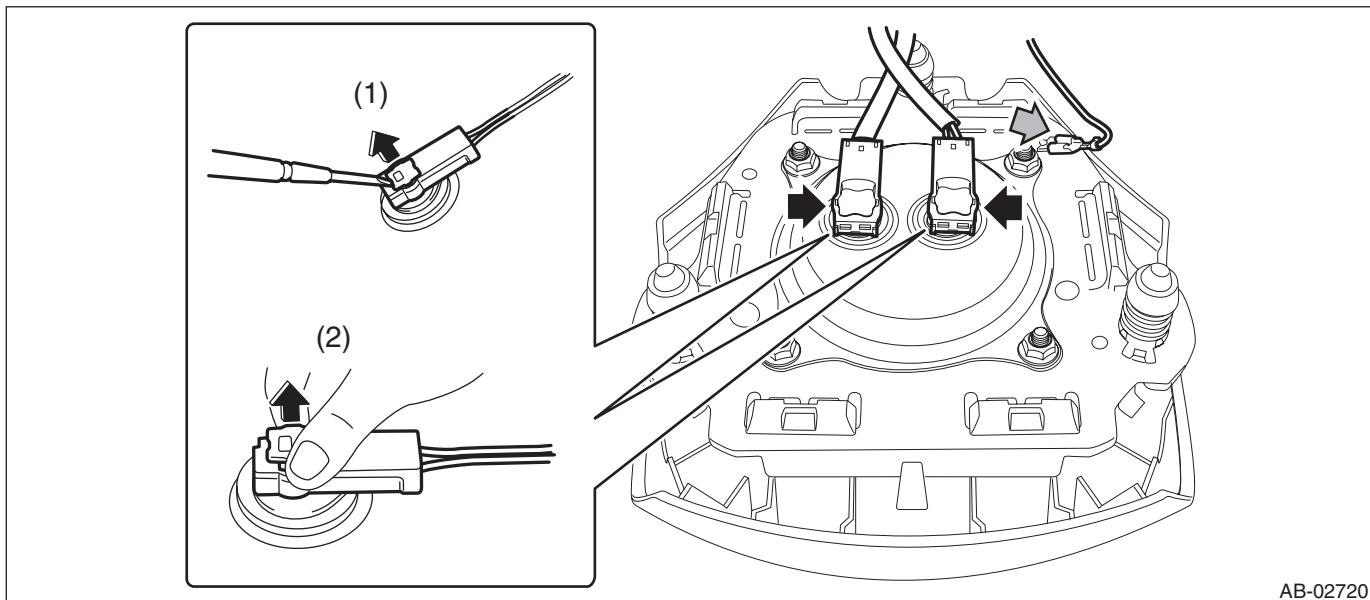
CAUTION:

Before performing service on the airbag module, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-11, CAUTION, General Description.>

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



- (2) Disconnect the horn harness and airbag connector, and remove the airbag module. <Ref. to AB-24, DRIVER'S AIRBAG MODULE, CURTAIN AIRBAG MODULE & PRETENSIONER, PROCEDURE, Airbag Connector.>



3) Remove the steering wheel.

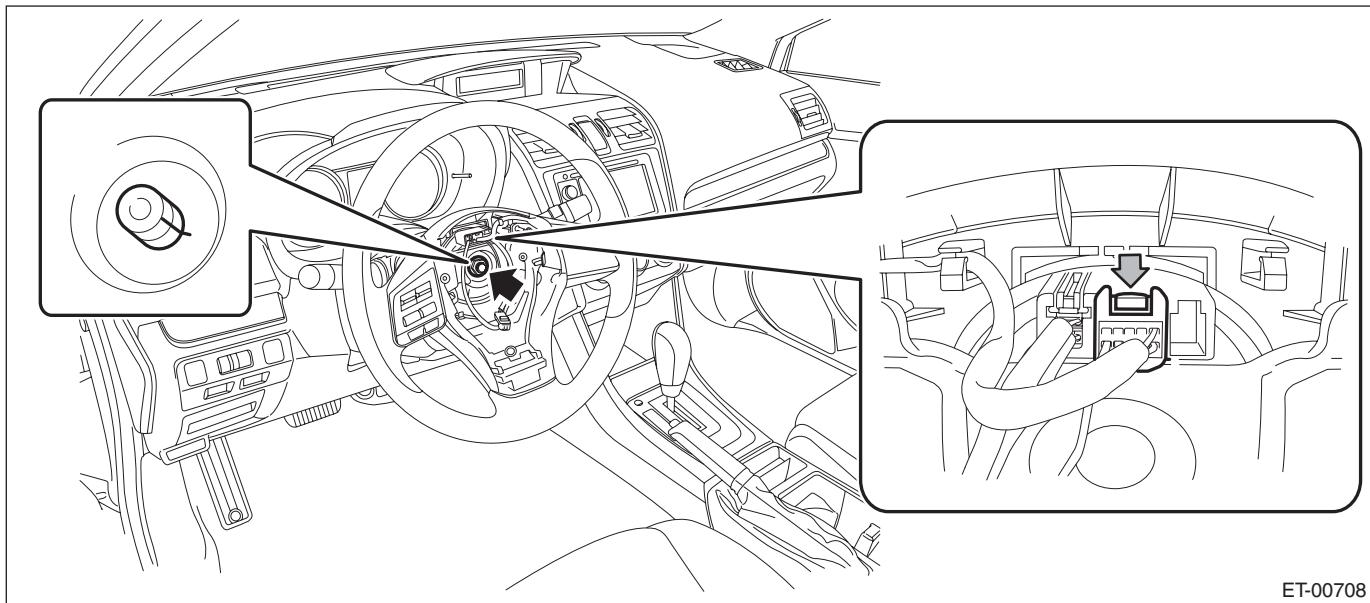
CAUTION:

- 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 steering roll connector is not turned from the original position.

Preparation tool:

Steering wheel puller

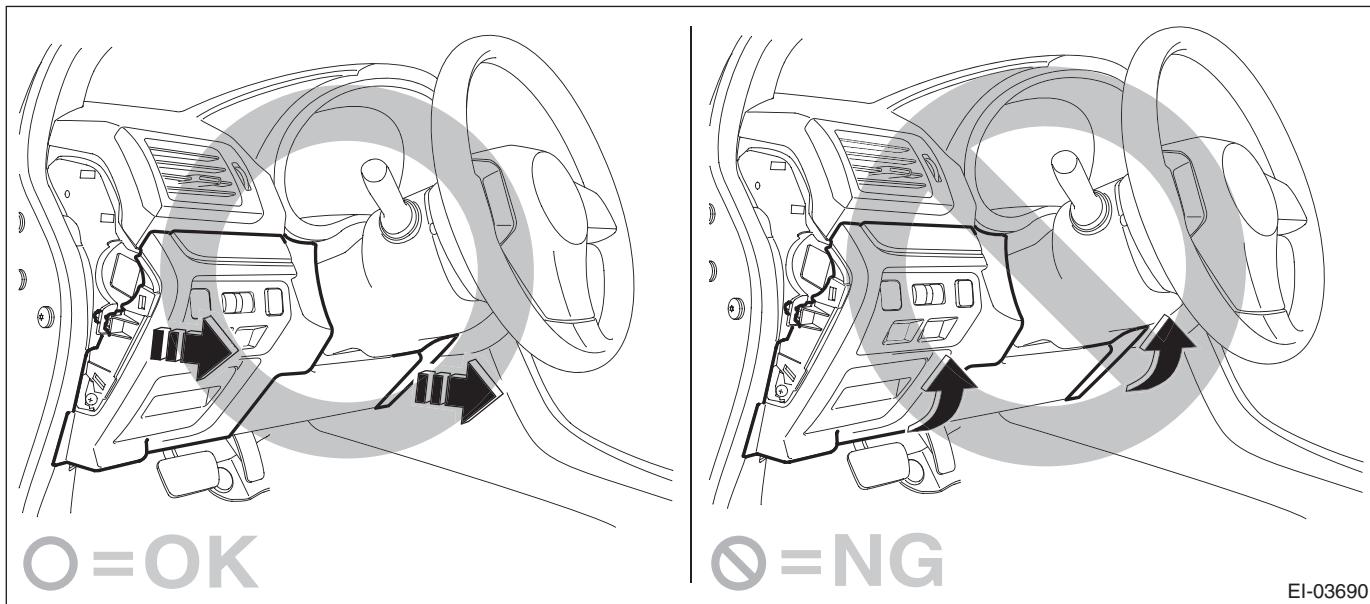
- (1) Disconnect the connector and remove the nut.
- (2) Put alignment marks and remove the steering wheel.



4) Remove the cover assembly - instrument panel LWR driver.

CAUTION:

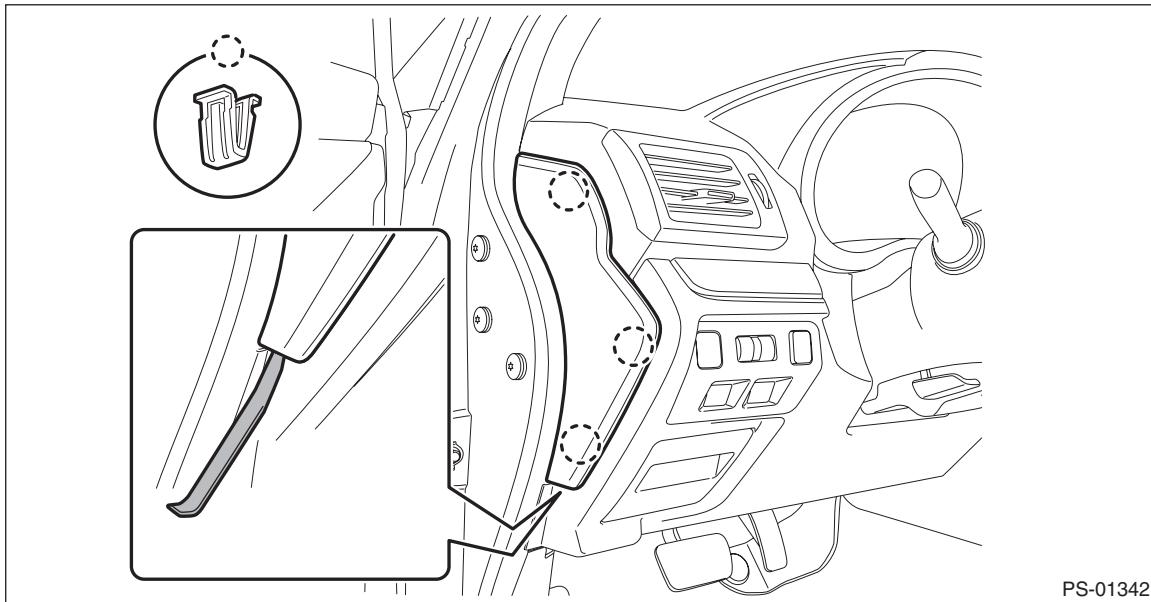
When removing the cover assembly - instrument panel LWR driver, be sure to pull it toward you. If attempting to remove by turning it upward, the claws may be damaged.



Steering Column

POWER ASSISTED SYSTEM (POWER STEERING)

- (1) Remove the clips, and remove the cover - instrument panel side LH.

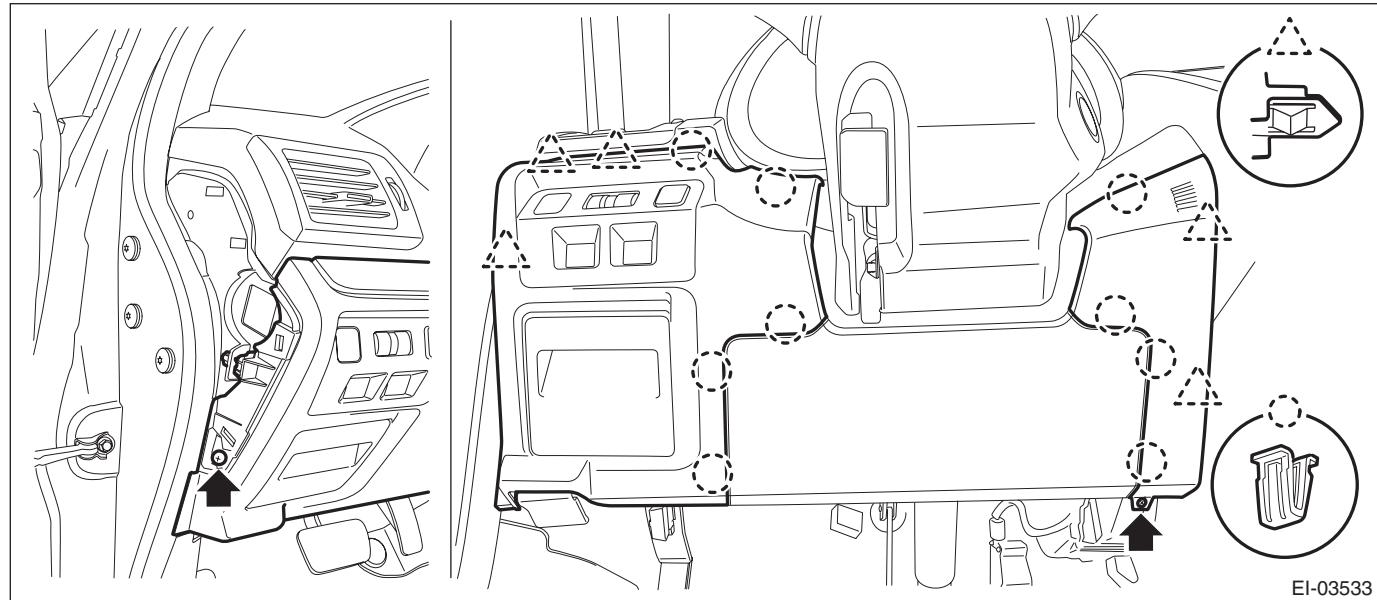


NOTE:

Using a plastic remover, open the cover - instrument panel side LH.

- (2) Remove the screws and release the clips and claws.

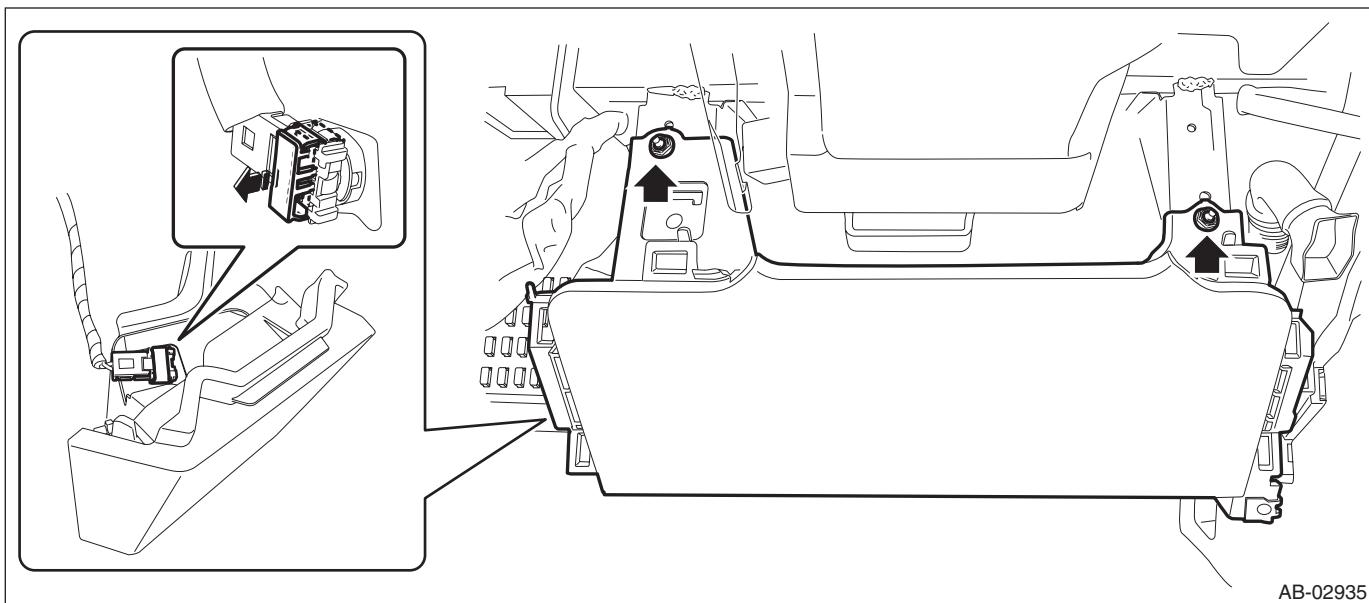
- (3) Disconnect the harness connectors, and remove the cover assembly - instrument panel LWR driver INN and the cover assembly - instrument panel LWR driver OUT.



Steering Column

POWER ASSISTED SYSTEM (POWER STEERING)

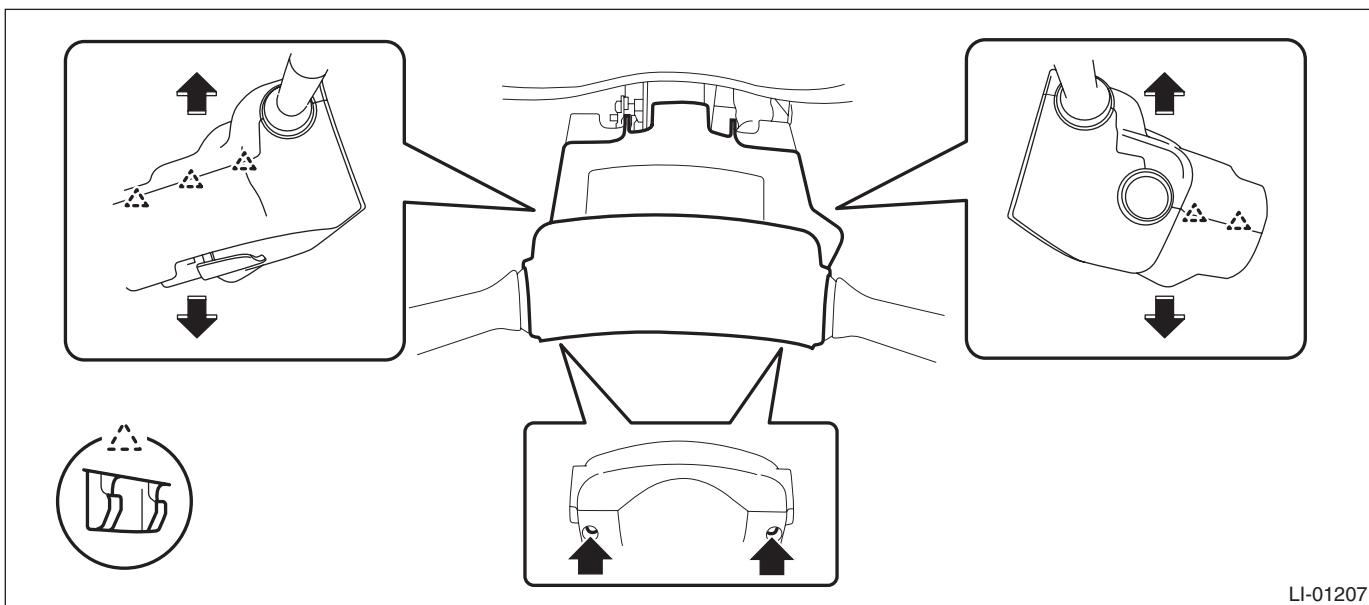
- 5) Remove the nuts to remove the knee airbag module and disconnect the harness connector. <Ref. to AB-33, KNEE AIRBAG MODULE, PROCEDURE, Airbag Connector.>



- 6) Remove the cover assembly - column.

(1) Remove the screws.

(2) Release the claw, and remove the cover assembly - column UPR and the cover assembly - column LWR.



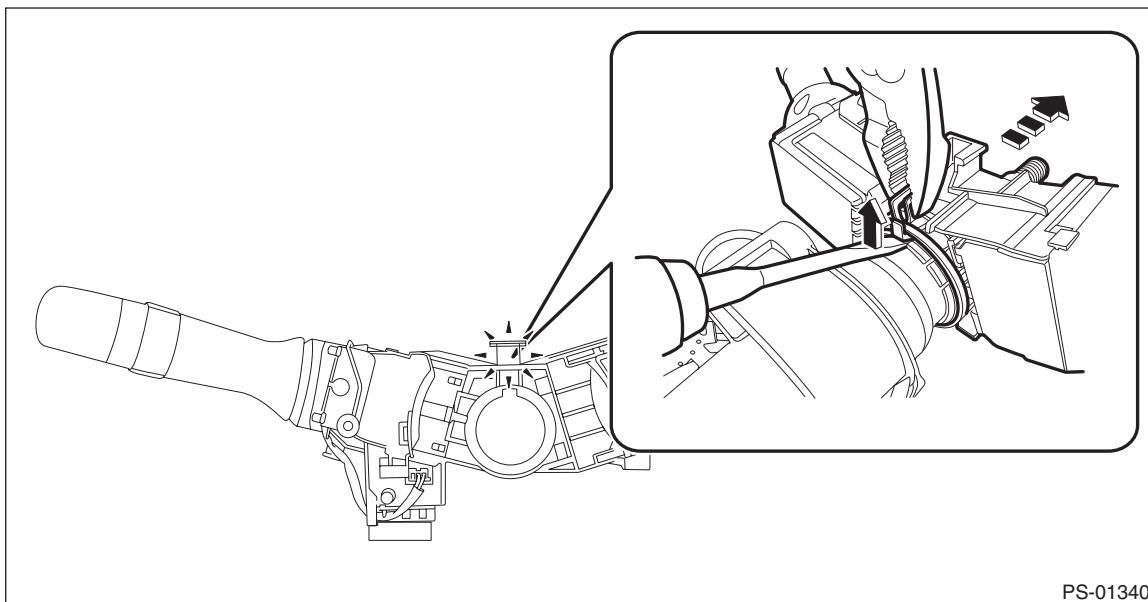
Steering Column

POWER ASSISTED SYSTEM (POWER STEERING)

7) Remove the switch assembly - combination.

(1) Disconnect the connector, and loosen the clamp to release the claws.

(2) Pull out the switch assembly - combination from the column assembly - steering.



8) Remove all connectors from the column assembly - steering.

9) Remove the universal joint assembly - steering.

CAUTION:

To prevent damage to the universal joint assembly - steering and error of handling force, make sure to remove the universal joint assembly - steering.

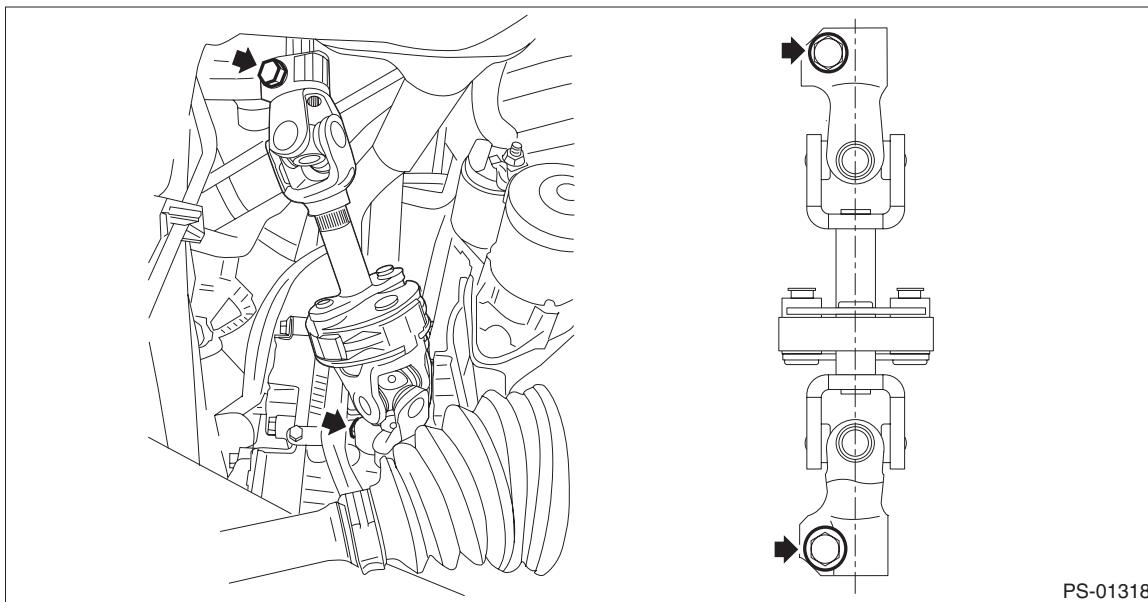
(1) Place alignment marks on the universal joint assembly - steering.

NOTE:

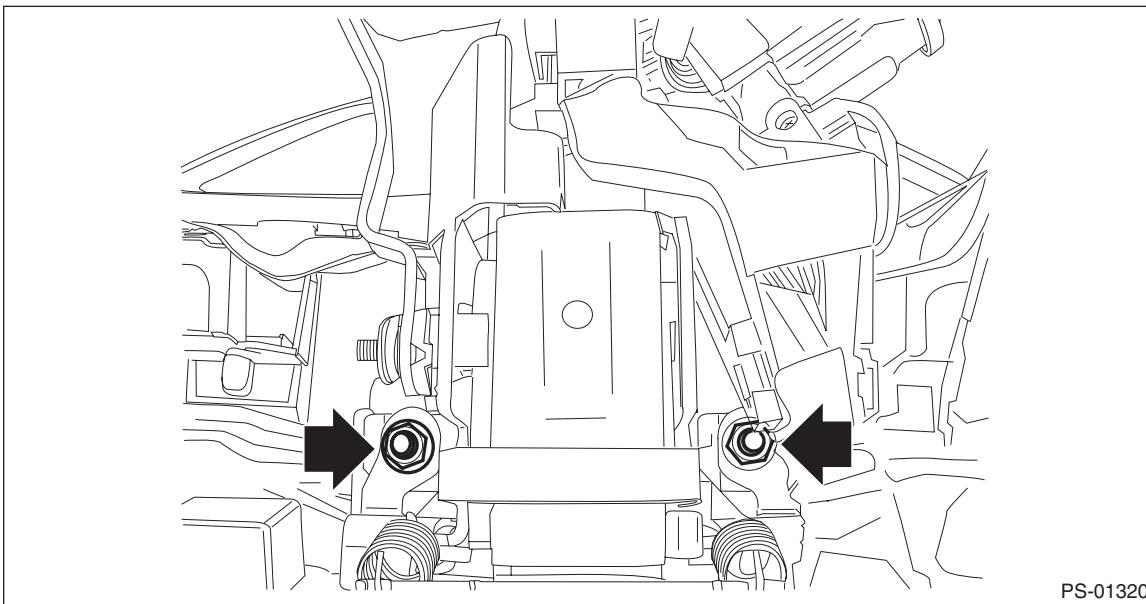
Place alignment marks on the following positions.

- Between the column assembly - steering and the universal joint assembly - steering
- Between the steering gearbox assembly and the universal joint assembly - steering

(2) Remove the bolt, and remove the universal joint assembly - steering.



- 10) Remove the two nuts under the beam COMPL - steering securing the column assembly - steering.



- 11) Pull out the column assembly - steering from the hole on toe board.

CAUTION:

Do not loosen the tilt lever when the column assembly - steering is not secured to the vehicle.

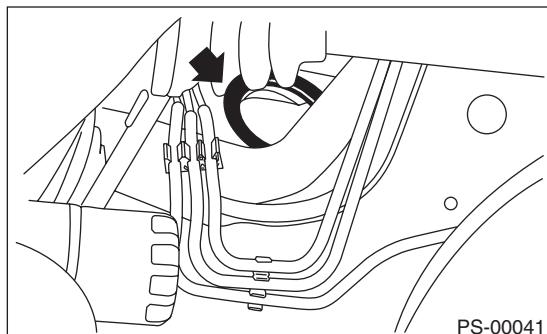
- 12) Remove the ignition key lock from the column assembly - steering. <Ref. to SL-61, REPLACEMENT, Ignition Key Lock.>

B: INSTALLATION

CAUTION:

If the steering wheel and steering angle sensor are removed, perform "VDC sensor midpoint setting mode" of the VDC. <Ref. to VDC-19, VDC SENSOR MIDPOINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

- 1) Install the grommet to the toe board.



- 2) Insert the end of the column assembly - steering into the toe board grommet.

- 3) Tighten the column assembly - steering installation bolt located under the beam COMPL - steering with the tilt lever fixed.

Tightening torque:

20 N·m (2.04 kgf·m, 14.8 ft-lb)

- 4) Connect all connectors located under the beam COMPL - steering.
- 5) Connect the horn harness and airbag connector, and install the airbag module.
- 6) Install the knee airbag module.
- 7) Install the cover assembly - instrument panel LWR driver INN and OUT.

Steering Column

POWER ASSISTED SYSTEM (POWER STEERING)

8) Install the universal joint assembly - steering. <Ref. to PS-14, INSTALLATION, Universal Joint.>

CAUTION:

- Always install the universal joint assembly - steering after installing the steering column to avoid damage to the universal joint assembly - steering.
- Be sure to follow the tightening order and tightening torque of the universal joint assembly - steering to avoid the steering effort from becoming heavy.

9) Align the center position of the steering roll connector. <Ref. to AB-109, ADJUSTMENT, Roll Connector.>

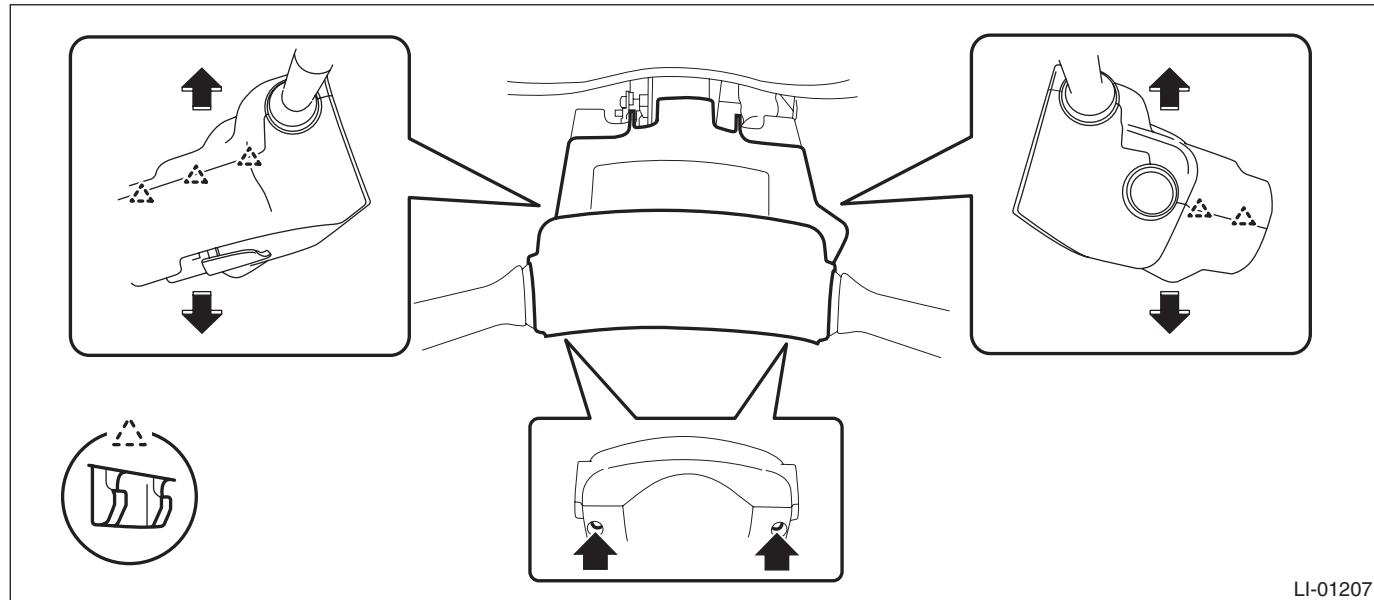
10) Install the steering wheel. <Ref. to PS-10, INSTALLATION, Steering Wheel.>

C: DISASSEMBLY

1) Remove the cover assembly - column.

(1) Lower the lever of the steering column.

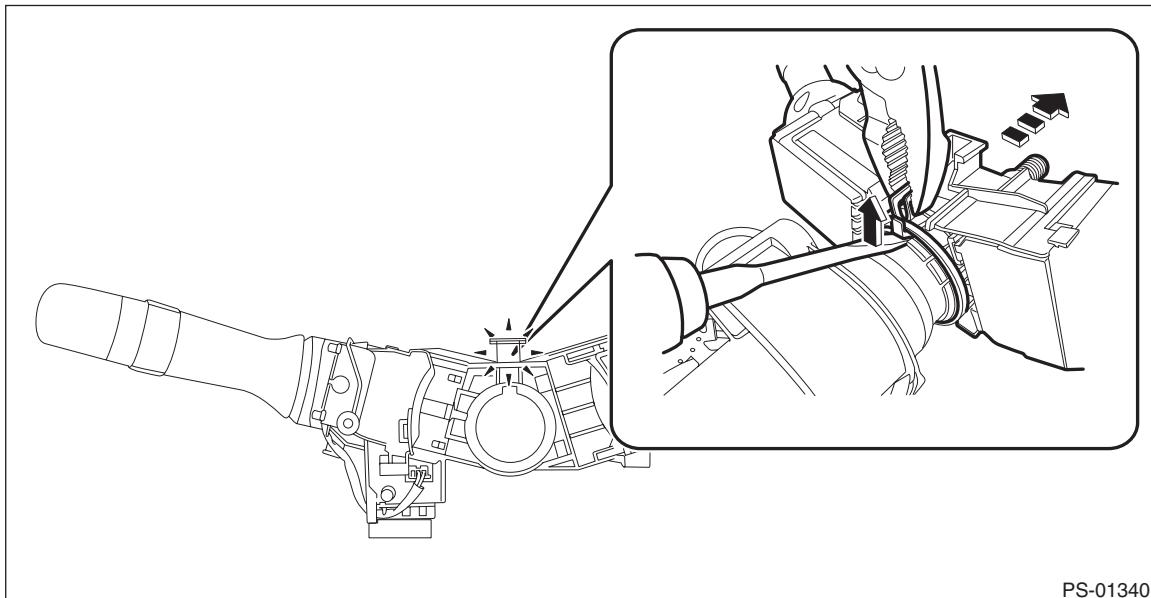
(2) Release the screw and claw, and remove the cover assembly - column UPR and the cover assembly - column LWR.



2) Remove the switch assembly - combination.

(1) Disconnect the connector, and loosen the clamp to release the claws.

(2) Pull out the switch assembly - combination from the column assembly - steering.



D: ASSEMBLY

Assemble each part in the reverse order of disassembly.

E: INSPECTION

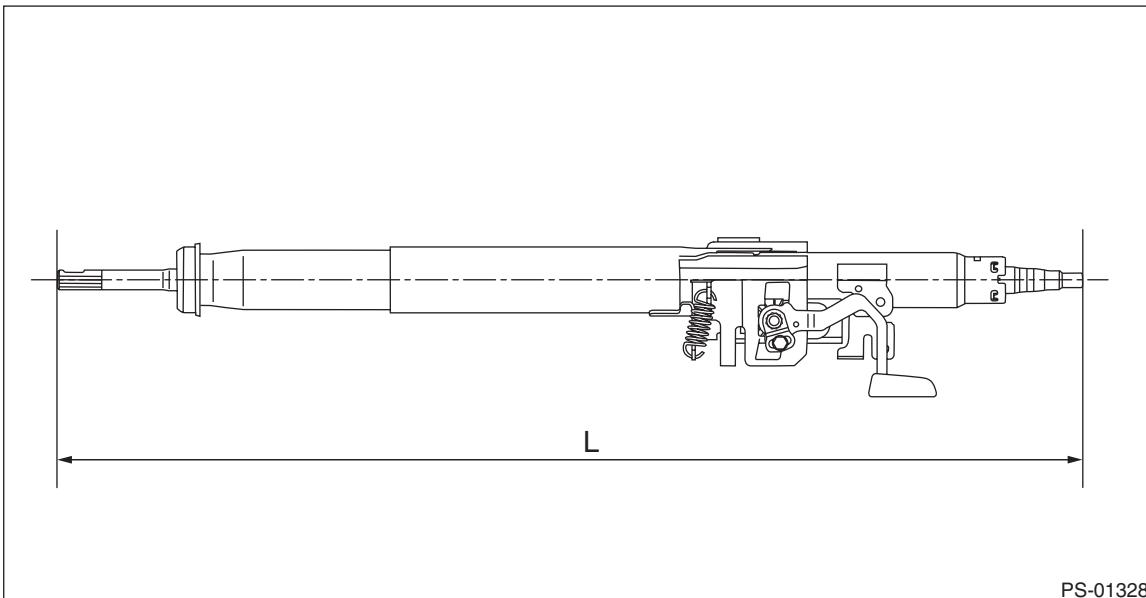
1. UNIT INSPECTION

Measure the overall length of the column assembly - steering. If not within specification, replace it.

Standard: Overall length L

Tilt and telescopic column (measure while minimized):

$819.7^{+1.5}_{-1.5}$ mm (32.3 $^{+0.059}_{-0.059}$ in)



2. INSPECTION OF AIRBAG SYSTEM

Refer to "Airbag System" for airbag inspection procedure. <Ref. to AB-43, INSTALLATION, Driver's Airbag Module.>