

AIRBAG SYSTEM

AB

	Page
1. General Description	2
2. Airbag Connector	10
3. Inspection Locations After a Collision	13
4. Driver's Airbag Module	16
5. Passenger's Airbag Module	17
6. Side Airbag Module	18
7. Curtain Airbag Module	20
8. Airbag Control Module	22
9. Side Airbag Sensor	23
10. Curtain Airbag Sensor	24
11. Roll Connector	25
12. Front Sub Sensor	26

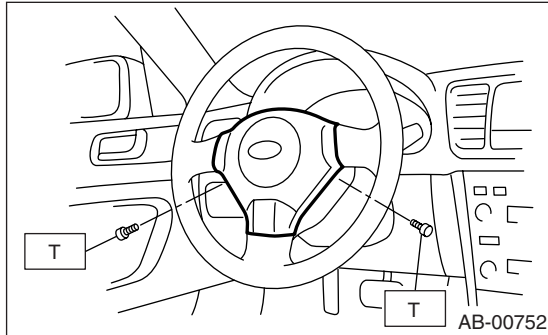
General Description

AIRBAG SYSTEM

1. General Description

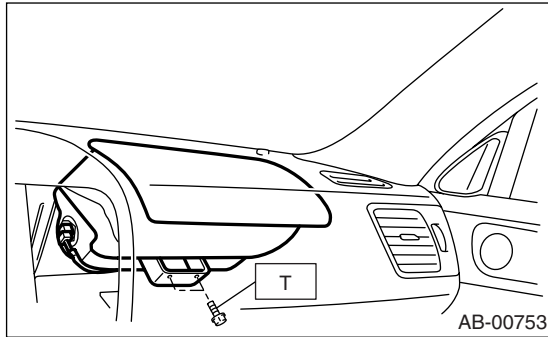
A: COMPONENT

1. DRIVER'S AIRBAG MODULE



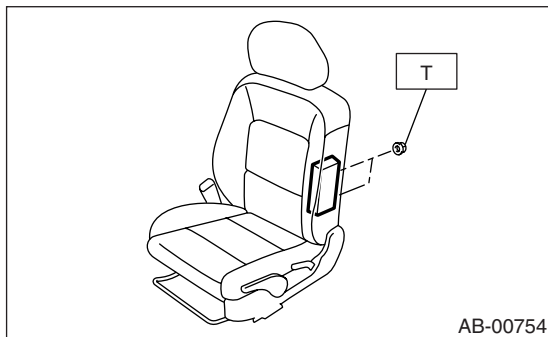
Tightening torque:
10 N·m (1.0 kgf-m, 7.2 ft-lb)

2. PASSENGER'S AIRBAG MODULE



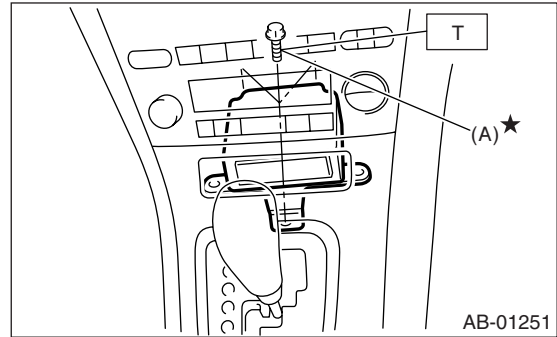
Tightening torque:
7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

3. SIDE AIRBAG MODULE



Tightening torque:
6 N·m (0.61 kgf-m, 4.4 ft-lb)

4. AIRBAG CONTROL MODULE

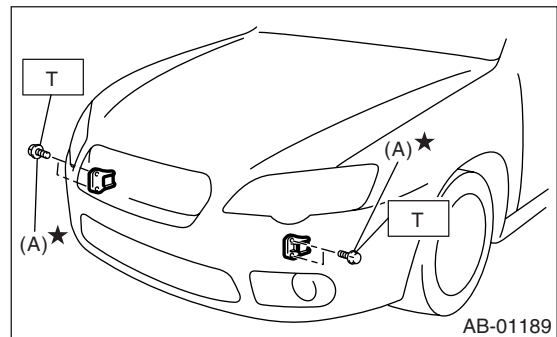


(A) Bolt

Tightening torque:
25 N·m (2.5 kgf-m, 18.1 ft-lb)

CAUTION:
Do not reuse mounting bolts and nuts.

5. FRONT SUB SENSOR

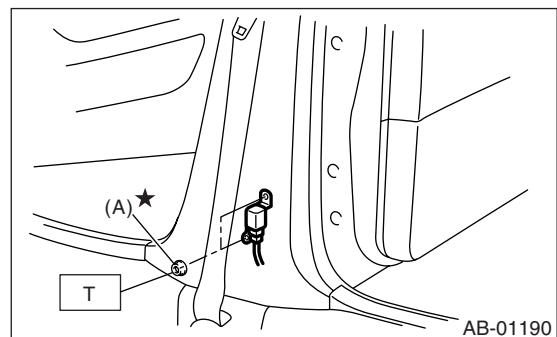


(A) Bolt

Tightening torque:
13 N·m (1.32 kgf-m, 9.6 ft-lb)

CAUTION:
Do not reuse mounting bolts and nuts.

6. SIDE AIRBAG SENSOR

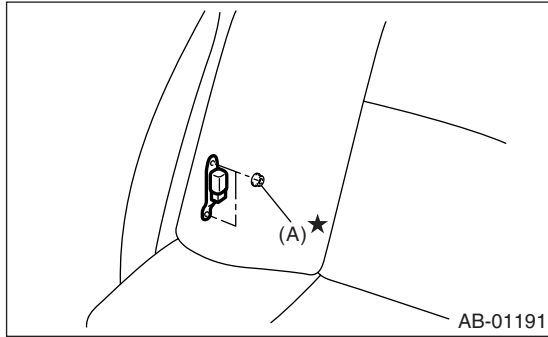


(A) Bolt

Tightening torque:
7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

CAUTION:
Do not reuse mounting bolts and nuts.

7. CURTAIN AIRBAG SENSOR

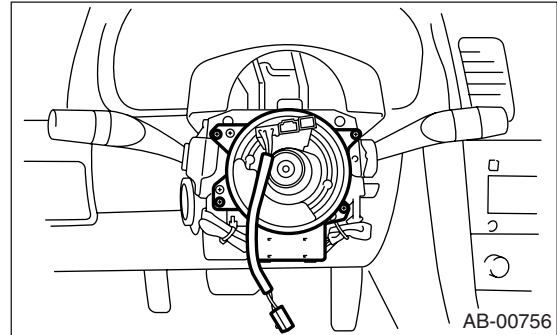


(A) Nut

Tightening torque:
7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

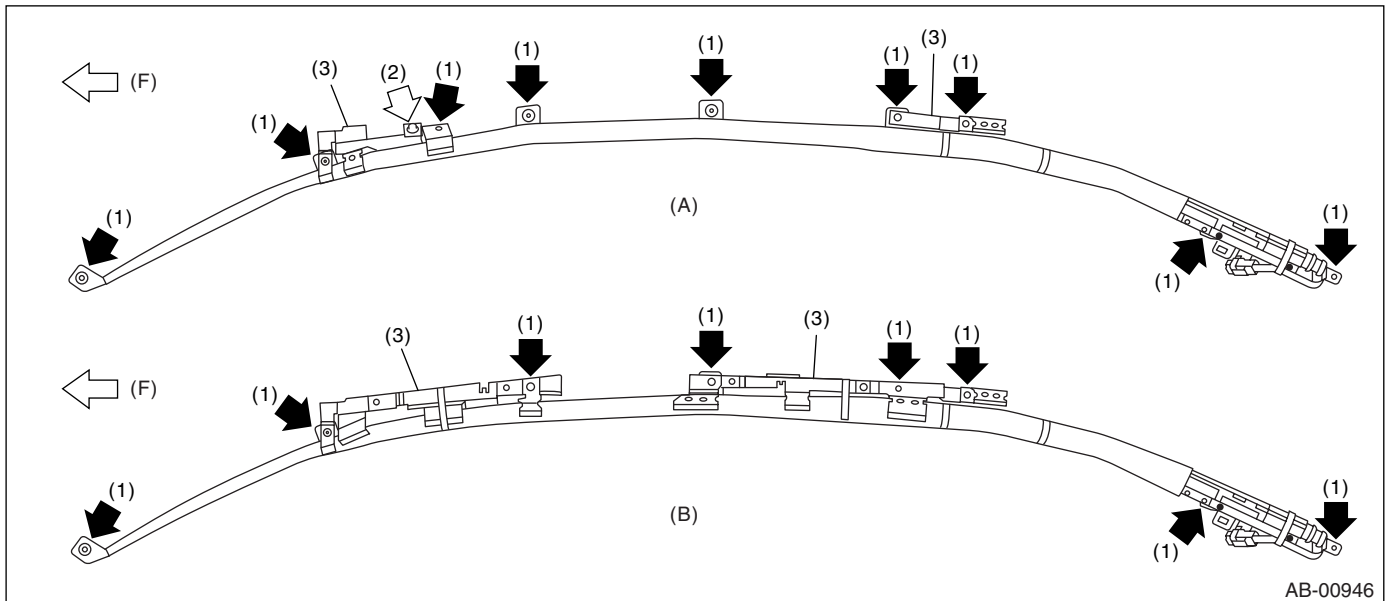
CAUTION:
Do not reuse mounting bolts and nuts.

8. STEERING ROLL CONNECTOR



9. CURTAIN AIRBAG MODULE

- Sedan model



(A) Model equipped with sunroof

(B) Model not equipped with sunroof

(F) Forward

(1) Bolt

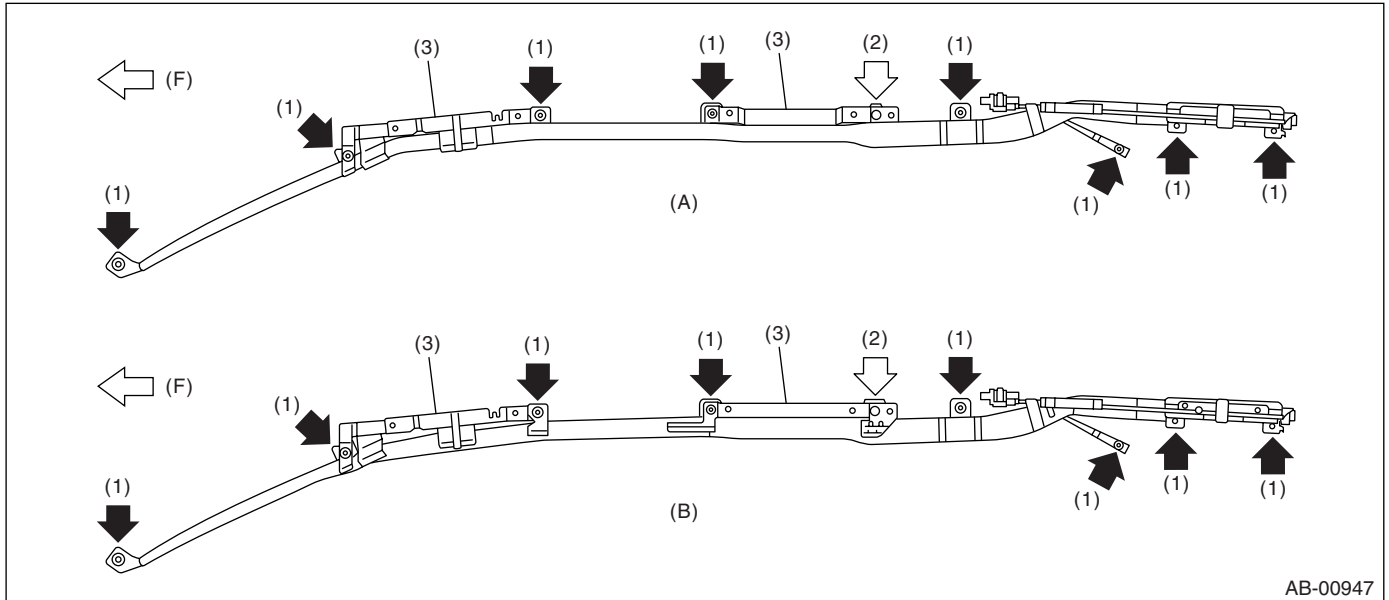
(2) Clip

(2) Plate guard

General Description

AIRBAG SYSTEM

- Wagon model



AB-00947

(A) Model equipped with sunroof

(B) Model not equipped with sunroof

(F) Forward

(1) Bolt

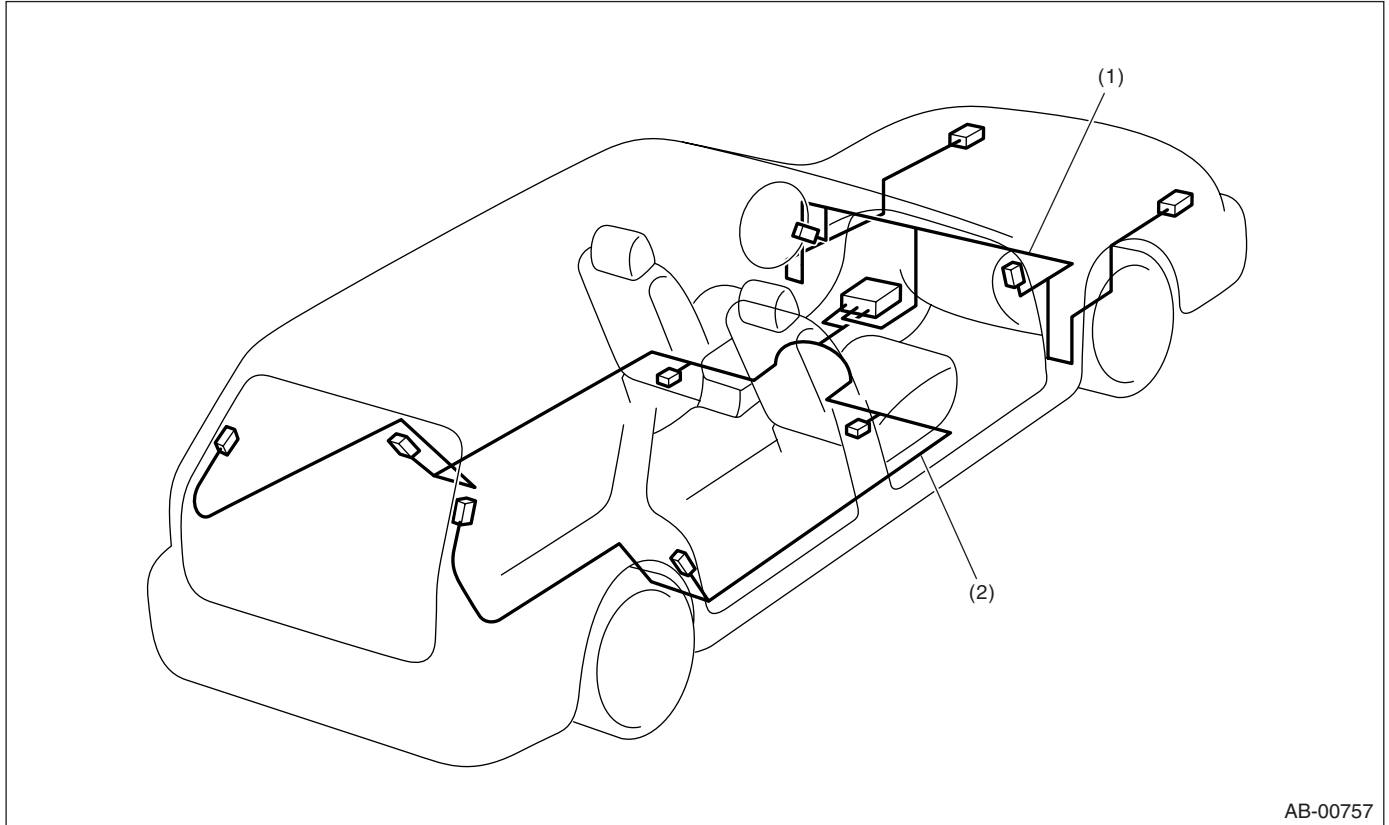
(2) Clip

(2) Plate guard

Tightening torque:

7.5 N·m (0.77 kgf-m, 5.5 ft-lb)

10. AIRBAG HARNESS



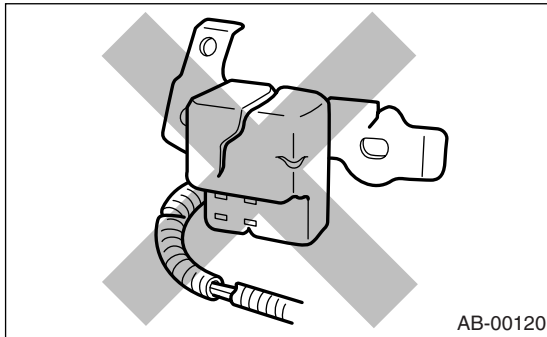
AB-00757

(1) Airbag main harness

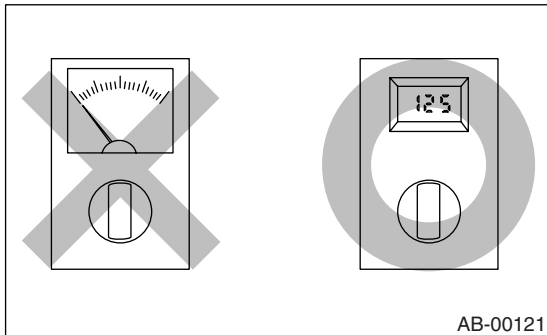
(2) Airbag rear harness

B: CAUTION

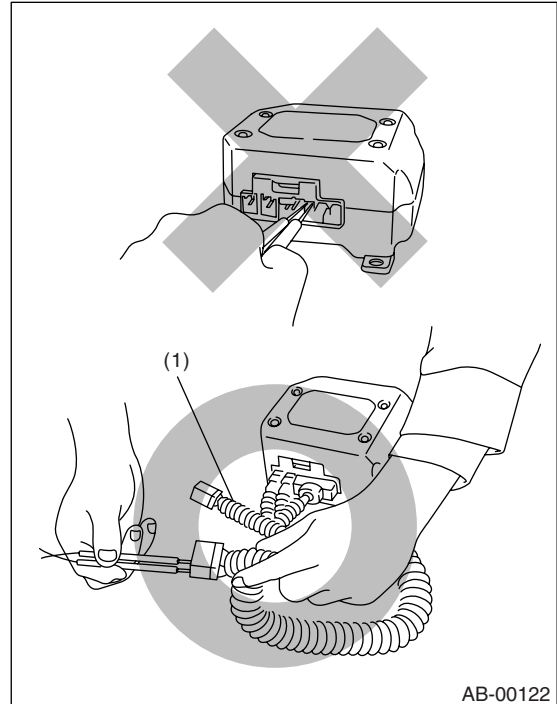
- When servicing a vehicle, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.
- The airbag system is fitted with a backup power source. If the airbag system is serviced within 20 seconds after the ground cable is disconnected, it may inflate.
- If the airbag warning light illuminates, repair the vehicle immediately. Airbag or pretensioner may inflate incorrectly, or not inflate in collision.
- If sensors, airbag module, airbag control module, pretensioner and harness are deformed or damaged, replace them with new parts.



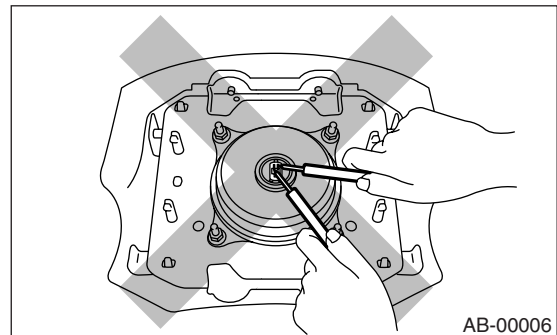
- When checking the airbag system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously.



- When checking, use a test harness (1). Since damage to the connector terminal may cause the airbag to activate erroneously, do not directly apply the tester probe to any connector terminal of the airbag.



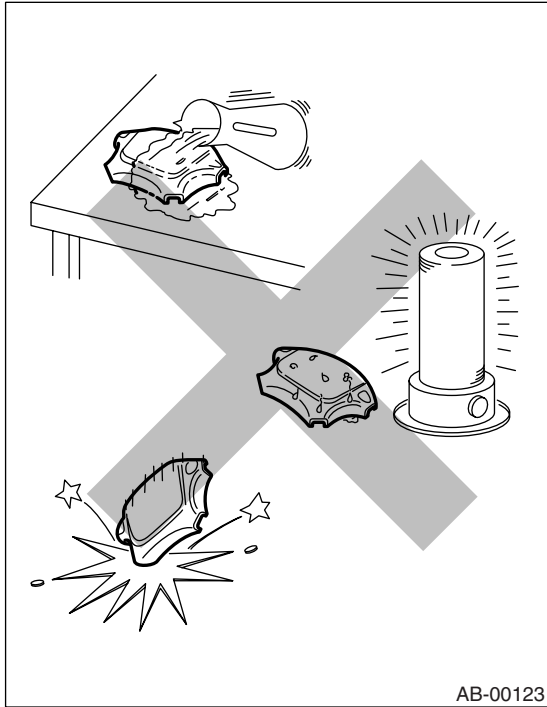
- Do not check continuity of the airbag modules for driver, passenger, side or curtain, or pretensioner.



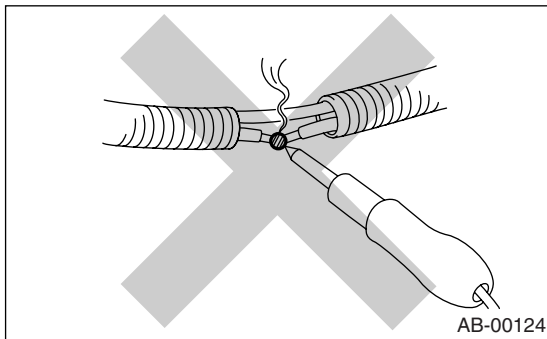
General Description

AIRBAG SYSTEM

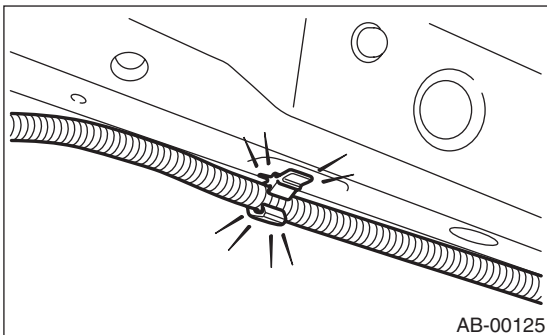
- Do not drop each airbag module, airbag control module and each sensor, subject them to high temperature over 93°C (199°F), or let water, oil or grease get on them; the internal parts may be damaged and reliability greatly lowered.



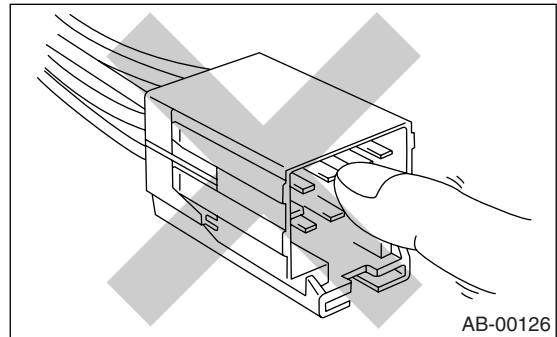
- If any damage, opening or rust is found on the airbag system wire harness, do not attempt to repair using soldering equipment. Be sure to replace the faulty harness with a new genuine part.



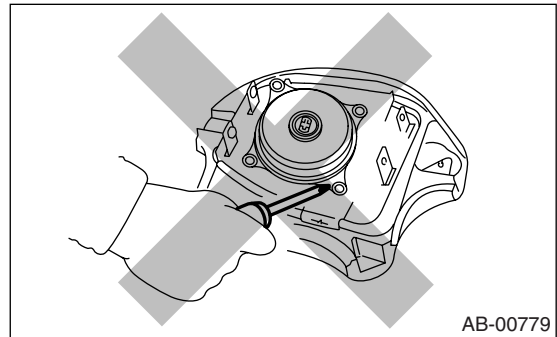
- Install the wire harness securely with the specified clips to avoid interference or tangled up with other parts.



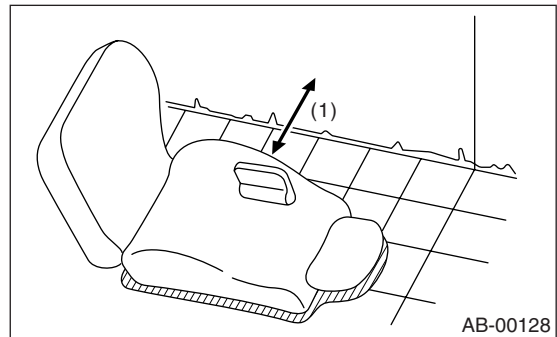
- Do not allow water or oil to come in contact with the connector terminals. Do not touch the connector terminals.



- Either of the airbag modules for driver, passenger, side or curtain, or pretensioner must not be disassembled.



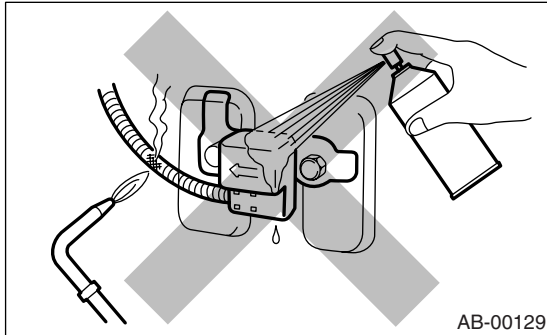
- The removed front seat with airbag module must be kept at least 200 mm (8 in) away from walls and other objects.



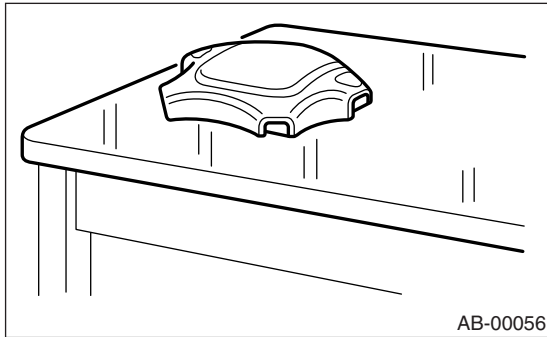
(1) 200 mm (8 in) or more

- Do not use the airbag or pretensioner parts from other vehicles. Always replace the defective parts with new parts.
- Never reuse a deployed airbag module and pretensioner.
- Do not discard the uninflated airbag or pretensioner.
- When painting or performing sheet metal work on the front part of the vehicle, including the front wheel apron front fender, and front side frame, remove the front sub sensors and wire harness of airbag system.

- When painting or performing sheet metal work on the side of the vehicle, including the side sill, center pillar, and front and rear doors, remove the side airbag sensors and wire harness of airbag system.



- After removal, keep each airbag system part with the pad facing upward on a dry, clean and flat surface away from heat, light sources, moisture and dust.



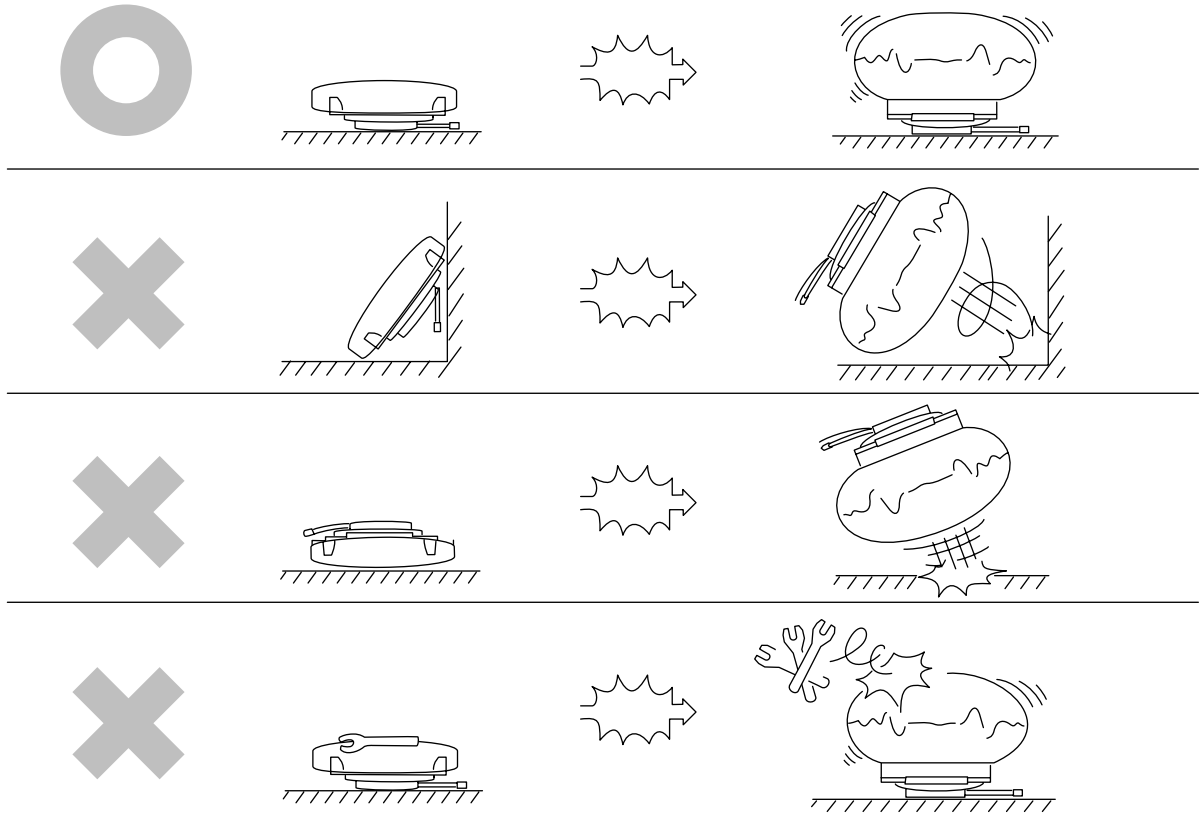
- When airbag control module, front sub sensor, side airbag sensor and curtain airbag sensor are removed, do not reuse the bolts and nuts of them. Always use new bolts and nuts for them.

General Description

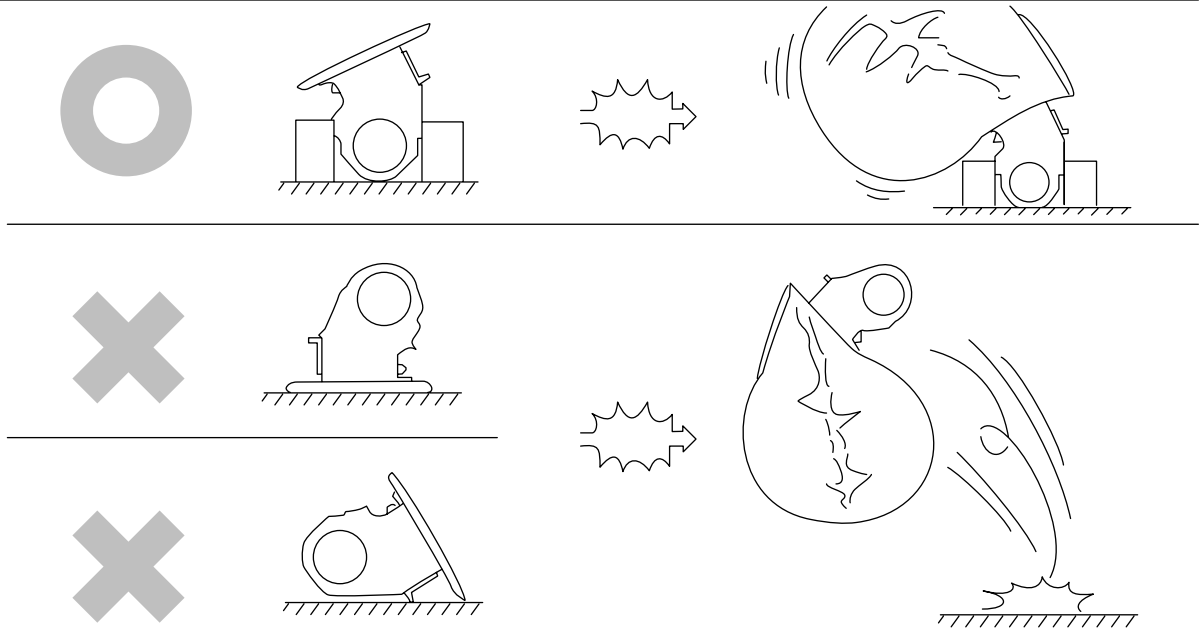
AIRBAG SYSTEM

- When storing a removed airbag module, do not place any objects on it or pile airbag modules on top of each other. If the airbag inflates for some reason when it is placed with its pad side facing downward or under any object, a serious accident may result.

(1)



(2)



AB-00130

(1) Driver's airbag module

(2) Passenger's airbag module

C: PREPARATION TOOL

1. GENERAL TOOL

TOOL NAME	REMARKS
TORX® T30	Used for removing and installing driver's airbag module.

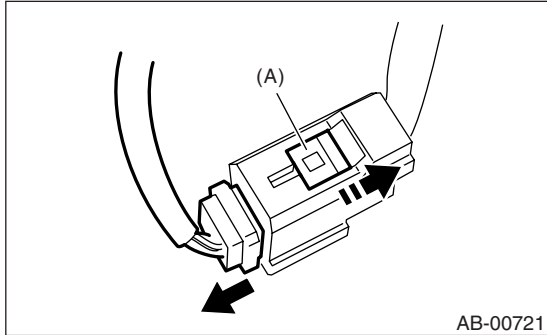
2. Airbag Connector

A: PROCEDURE

1. POWER SUPPLY, BUCKLE SWITCH AND OCCUPANT DETECTION SYSTEM HARNESS

1) How to disconnect:

- (1) Move the slide lock (A) in the direction of arrow.
- (2) With the slide lock (A) moved, separate the connector.

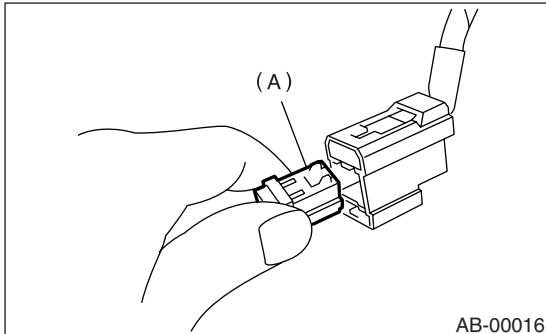


CAUTION:

When pulling the slide lock or disconnecting the connector, be sure to hold onto the connector and not the wire.

2) How to connect:

Holding the connector (A), push it in carefully until a connecting sound is heard.



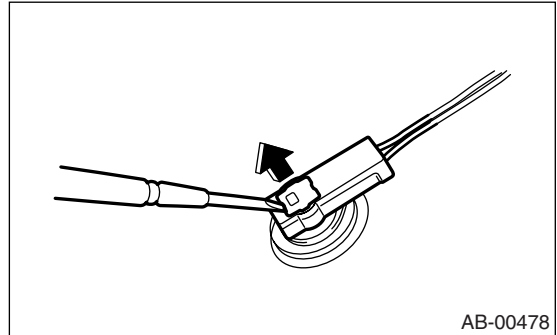
CAUTION:

Be sure to insert the connector in until it is locked. Then pull on it gently to make sure that it is locked.

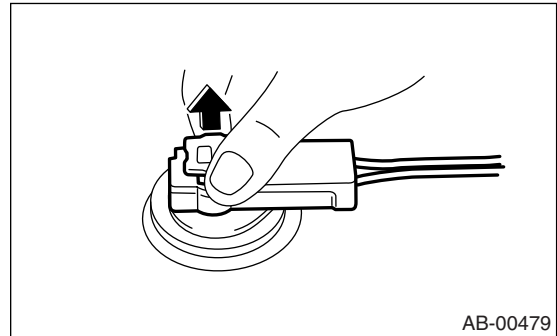
2. DRIVER'S AIRBAG MODULE AND PRE-TENSIONER

1) How to disconnect:

- (1) Using a flat tip screwdriver, pry the push lock upward to unlock.



- (2) Pull the connector to disconnect from the driver's airbag module assembly or retractor assembly.

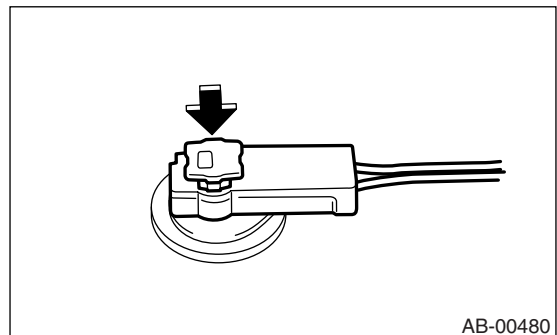


2) How to connect:

Connect the connector in the reverse order of disconnecting. At this time, be sure to insert the push lock until a connecting sound is heard.

CAUTION:

- Be sure to insert the connector in until it is locked. Then pull on it gently to make sure that it is locked.
- Be sure to push the push lock in securely.



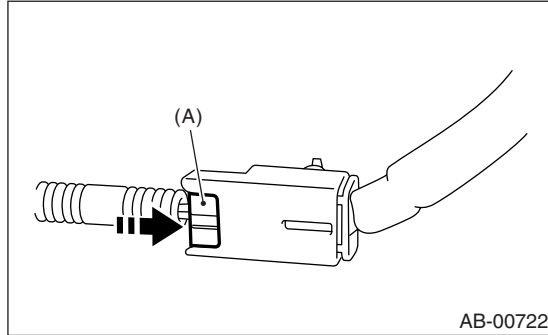
NOTE:

Connector can not be connected when the push lock is in lock position. To connect the connector, set the push lock to unlock position.

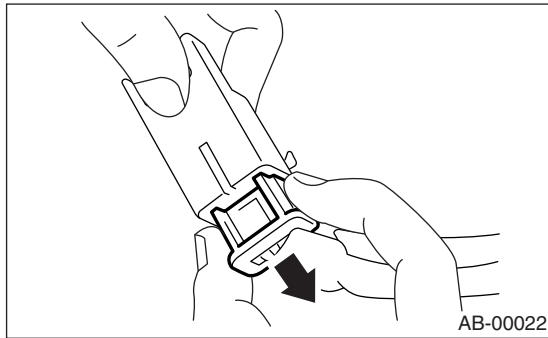
3. DRIVER'S AIRBAG (BETWEEN AIRBAG MAIN HARNESS AND ROLL CONNECTOR), PASSENGER'S AIRBAG

1) How to disconnect:

- (1) Push the slide lock (A) into the direction of arrow.



- (2) With the slide lock pushed, disconnect the connector.



CAUTION:

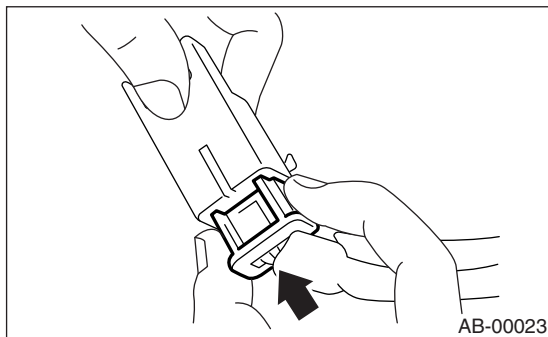
When pulling the side lock or disconnecting the connector, be sure to hold onto the connector and not the wire.

2) How to connect:

Holding the connector, push it in carefully until a connecting sound is heard.

CAUTION:

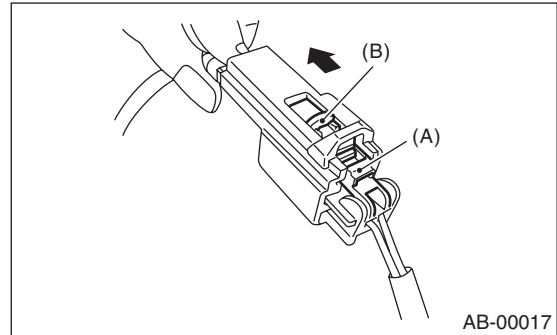
Be sure to insert the connector in until it is locked. Then pull on it gently to make sure that it is locked.



4. SIDE AIRBAG AND CURTAIN AIRBAG

1) How to disconnect:

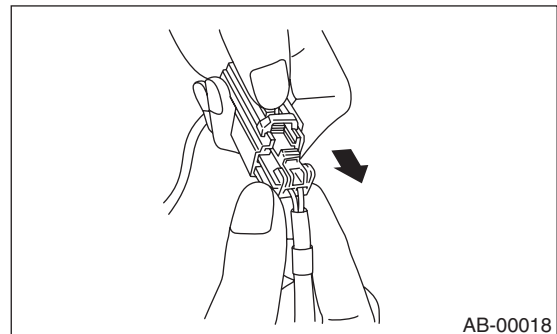
- (1) Push the lock arm (A).
- (2) With the lock arm (A) pushed in, move the slide lock (B) in the direction of arrow.



- (3) With the slide lock moved, release the lock arm (back to its original position), and disconnect the connector.

CAUTION:

When pulling the side lock or disconnecting the connector, be sure to hold onto the connector and not the wire.

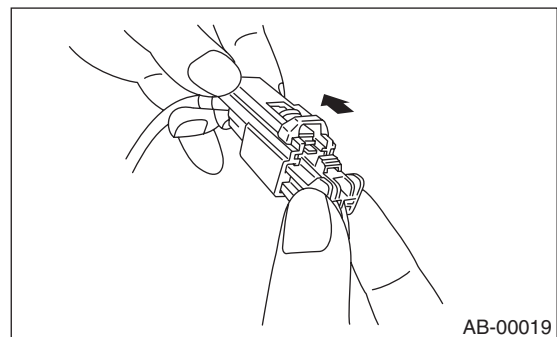


2) How to connect:

Holding the connector, push it in carefully until a connecting sound is heard.

CAUTION:

Be sure to insert the connector in until it is locked. Then pull on it gently to make sure that it is locked.



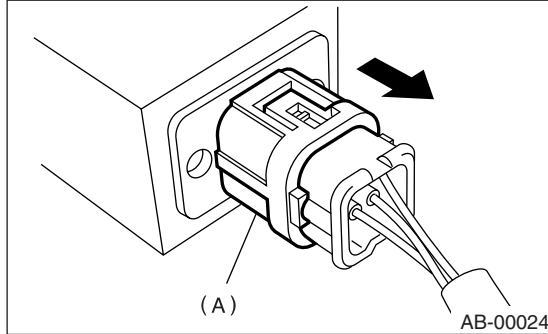
5. FRONT SUB-SENSOR, SIDE AIRBAG SENSOR, CURTAIN AIRBAG SENSOR AND SEAT POSITION SENSOR

1) How to disconnect:

Holding the outer part (A), pull it in the direction of arrow.

CAUTION:

When pulling the side lock or disconnecting the connector, be sure to hold onto the connector and not the wire.

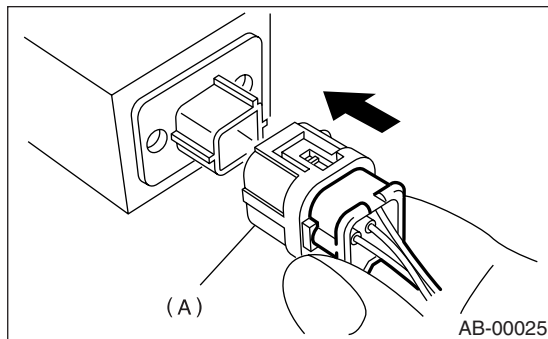


2) How to connect:

Holding the connector, push it in carefully until a connecting sound is heard.

CAUTION:

- The outer side (A) moves back, and so do not put your hand on the outer part.
- Be sure to insert the connector in until it is locked. Then pull on it gently to make sure that it is locked.



3. Inspection Locations After a Collision

A: REPLACEMENT

Replace the following parts when the airbag is deployed.

1. FRONT COLLISION

- 1) Driver's airbag module
- 2) Passenger's airbag module
- 3) Driver's seat belt (Pretensioner)
- 4) Passenger's seat belt (Pretensioner)
- 5) Airbag control module
- 6) Front sub sensor
- 7) Roll connector
- 8) Instrument panel (for integrating with passenger's airbag module)

2. SIDE COLLISION

- 1) Airbag control module
- 2) Side airbag module (operating side seat backrest)
- 3) Side airbag sensor (operating side)
- 4) Curtain airbag module (operating side)
- 5) Curtain airbag sensor (operating side)

3. INSPECTION OF OTHER PARTS

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

- 1) Check the steering shaft for mounting conditions and deflection of front and rear, upward and downward directions, and deflection of front and rear direction with tilt lever released. (After collision, absorbing part of steering shaft may work.)
- 2) Check the connector of airbag module, pretensioner, etc. for damage, and also check each harness for pinch and connector damage. Replace the harness as a unit if damage is found.
- 3) Check the seat cushion frame, backrest, seat rail and headrest for deformation, distortion, crack, installing condition and play.
- 4) For passenger's seat, replace the seat cushion frame assembly with new one if the seat cushion frame or seat rail is deformed or cracked.
- 5) Perform the system calibration of passenger's seat. <Ref. to OD(diag)-12, SYSTEM CALIBRATION, OPERATION, Subaru Select Monitor.>
- 6) Check if the driver's seat position sensor and the driver's and passenger's seatbelt buckle switch operate normally.

B: INSPECTION

If the vehicle is involved in a collision on any side, even if it is a slight collision, be sure to check the following systems.

1. DRIVER'S AIRBAG MODULE

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

- Airbag module is cracked or deformed.
 - Harness and/or connector is cracked, deformed or open. Harness wire is exposed.
 - The module surface is fouled with grease, oil, water or cleaning solvent.
- 2) When installing a new driver's airbag module, check for the following, and replace the damaged parts with new parts.
- The steering wheel is in the way, making it difficult to install the airbag module.
 - The clearance between the driver's airbag module and steering wheel is not constant.
 - When steering wheel deformation in axial, upward and downward directions exceed limits.

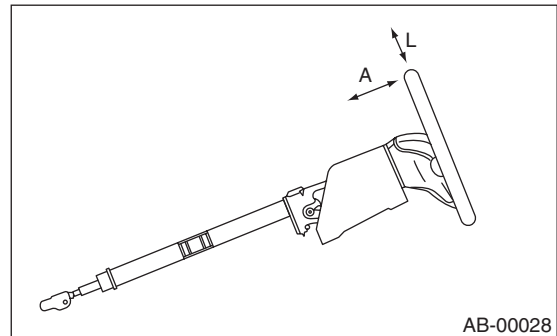
Standard value:

Height deflection A

Less than 6 mm (0.24 in)

O.D. deflection L

Less than 7 mm (0.28 in)



AB-00028

2. PASSENGER'S AIRBAG MODULE

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

- Airbag module and instrument panel are cracked or deformed.
- Harness and/or connector is cracked, deformed or open. Harness wire is exposed.
- Mounting bracket is cracked or deformed.

3. SIDE AIRBAG MODULE

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

- Front seat, airbag module and mounting bracket are damaged or deformed.
- Harness and/or connector is cracked, deformed or open. Harness wire is exposed.

Inspection Locations After a Collision

AIRBAG SYSTEM

4. CURTAIN AIRBAG MODULE

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

- Airbag cover is scratched or broken.
- Harness and/or connector is cracked, deformed or open. Harness wire is exposed.
- Mounting bracket and securing clip are cracked or deformed.

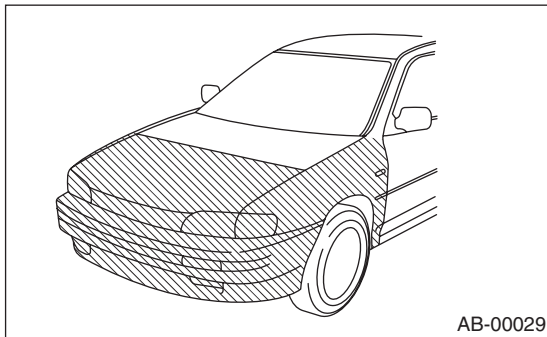
5. AIRBAG CONTROL MODULE

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

- Control module is cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Airbag is deployed.
- Side airbag is deployed.
- Curtain airbag is deployed.

6. FRONT SUB SENSOR

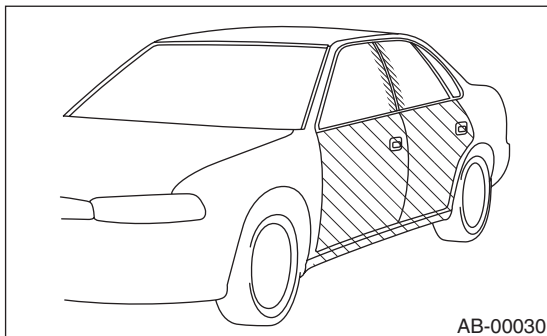
If the section of vehicle as shown in the figure is damaged, check for the following and replace the damaged parts with new parts.



- Front sub sensor is cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Airbag is deployed.

7. SIDE AIRBAG SENSOR AND CURTAIN AIRBAG SENSOR

If the section of vehicle as shown in the figure is damaged, check for the following and replace the damaged parts with new parts.



- Side airbag sensor and curtain airbag sensor are cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Side airbag or curtain airbag is deployed. (operating side)

8. ROLL CONNECTOR

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

- Combination switch or steering roll connector is cracked or deformed.

9. STEERING SHAFT

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

- Overall length of steering column should be within specifications.

Standard value:

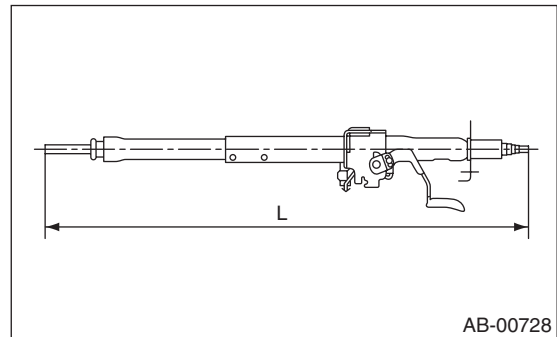
Overall length L

Except for OUTBACK model

$833.6^{+1.3}_{-0.3} \text{ mm } (32.82^{+0.051}_{-0.012} \text{ in})$

OUTBACK model

$825.4^{+1.3}_{-0.3} \text{ mm } (32.50^{+0.051}_{-0.012} \text{ in})$



10. DRIVER'S SEAT

Check the following items and replace the faulty parts with new one.

- Seatbelt buckle switch or seat position sensor body/bracket is cracked or deformed.
- Harness and/or connector is cracked, deformed or open. Harness wire is exposed.

11. PASSENGER'S SEAT

1) Check the following items and replace the faulty parts with new one.

- Seatbelt buckle switch body/bracket for scratch, crack or deformation
- Backrest frame for crack or deformation
- Headrest for deformation or play

CAUTION:

Never disassemble the following items. Always check with seat cushion frame assembly.

- **Seat cushion frame and seat rail for crack or deformation**
- **Occupant detection system unit or each load sensor for scratch, crack or deformation**
- **Harness and/or connector is cracked, deformed or open. Harness wire is exposed.**

2) After checking the installing condition of passenger's seat, perform the system calibration of occupant detection system. <Ref. to OD(diag)-12, SYSTEM CALIBRATION, OPERATION, Subaru Select Monitor.>

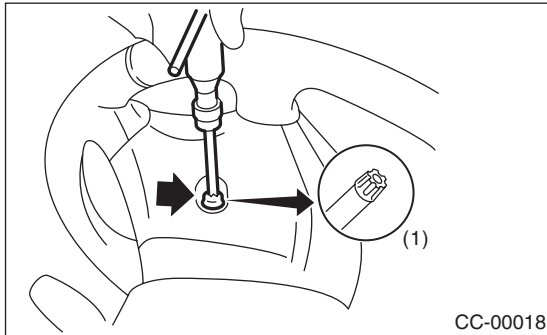
4. Driver's Airbag Module

A: REMOVAL

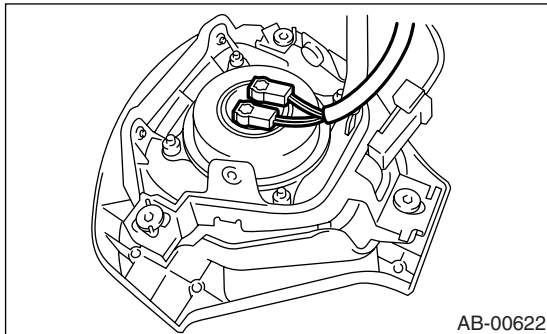
CAUTION:

Refer to "CAUTION" of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

- 1) Position the front wheels straight ahead. (After moving a vehicle more than 5 m (16 ft) with front wheels positioned straight ahead, make sure the vehicle moves straight ahead.)
- 2) Turn the ignition switch to OFF.
- 3) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 4) Using TORX® BIT T30 (1), remove the two TORX® bolts on the side of steering wheel.



- 5) Disconnect the horn harness.
- 6) Disconnect the airbag connector on the back of airbag module, and then remove the airbag module. <Ref. to AB-10, PROCEDURE, Airbag Connector.>



- 7) Refer to "CAUTION" for handling of a removed airbag module. <Ref. to AB-5, CAUTION, General Description.>

B: INSTALLATION

CAUTION:

- Refer to "CAUTION" of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>
- To prevent the misconnection, the connector is colored. Connect the harness side connector to the same color of module side connector.

Install in the reverse order of removal.

Tightening torque:

10 N·m (1.0 kgf-m, 7.2 ft-lb)

C: INSPECTION

CAUTION:

Refer to "CAUTION" of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

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

- Airbag module, harness, connector and mounting bracket are damaged. <Ref. to AB-13, DRIVER'S AIRBAG MODULE, INSPECTION, Inspection Locations After a Collision.>

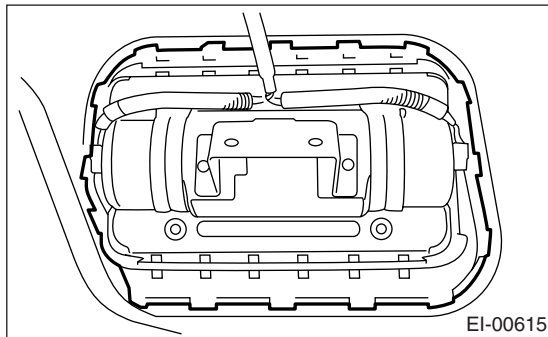
5. Passenger's Airbag Module

A: REMOVAL

CAUTION:

Refer to “CAUTION” of “General Description” before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the instrument panel. <Ref. to EI-56, INSTRUMENT PANEL (EXCLUDING STEERING SUPPORT BEAM), REMOVAL, Instrument Panel Assembly.>
- 4) Remove the pawl and remove the passenger's airbag module.



- 5) Refer to “CAUTION” for handling of a removed airbag module. <Ref. to AB-5, CAUTION, General Description.>

B: INSTALLATION

CAUTION:

Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

Install in the reverse order of removal.

Tightening torque:

7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

C: INSPECTION

CAUTION:

Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

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

- Airbag module, harness, connector, and mounting bracket are damaged. <Ref. to AB-13, PASSENGER'S AIRBAG MODULE, INSPECTION, Inspection Locations After a Collision.>

6. Side Airbag Module

A: REMOVAL

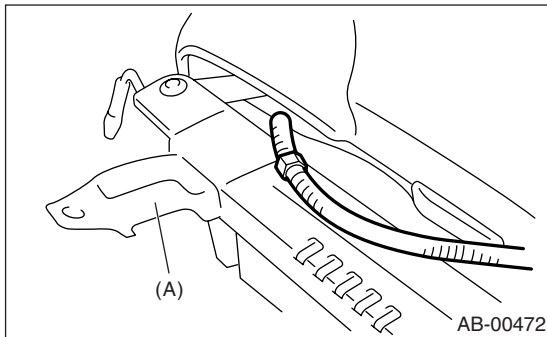
CAUTION:

Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

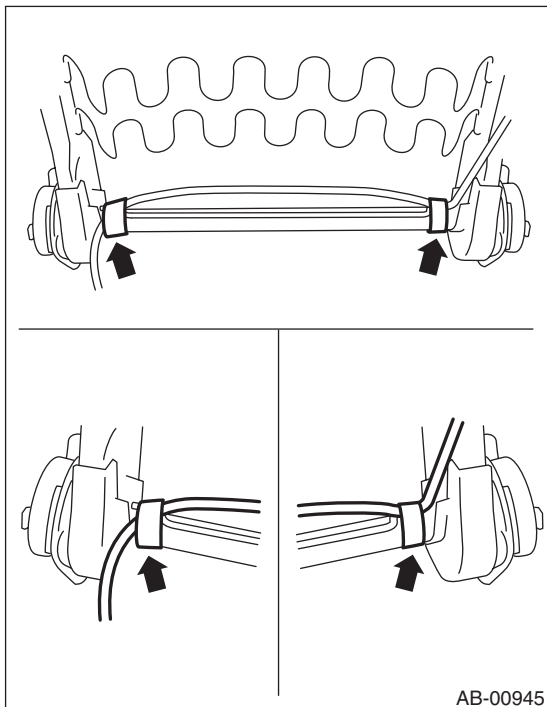
NOTE:

Remove the passenger's side by referring to driver's side.

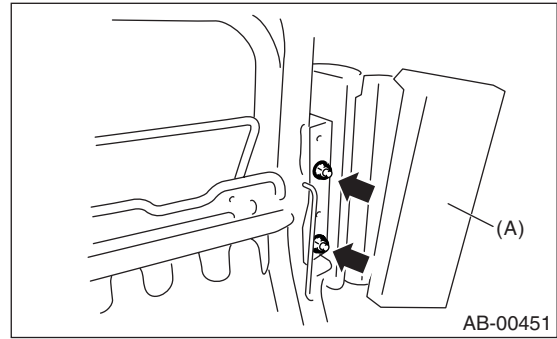
- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the front seats. <Ref. to SE-9, REMOVAL, Front Seat.>
- 4) Remove the clip from reverse side of seat cushion assembly and slide rail IN (A), and then remove the side airbag harness.



- 5) Remove the backrest cover. <Ref. to SE-10, DISASSEMBLY, Front Seat.>
- 6) Remove the side airbag harness from backrest frame assembly.



- 7) Remove the side airbag module (A) from backrest frame assembly.



B: INSTALLATION

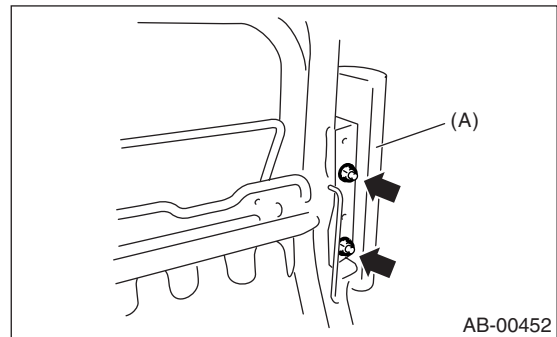
CAUTION:

- Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>
- Be sure to perform the system calibration for occupant detection system after passenger's seat installation. <Ref. to OD(diag)-12, SYSTEM CALIBRATION, OPERATION, Subaru Select Monitor.>

- 1) Ensure that there are no foreign articles on side airbag module.
- 2) Install the side airbag module (A) to backrest frame assembly.

Tightening torque:

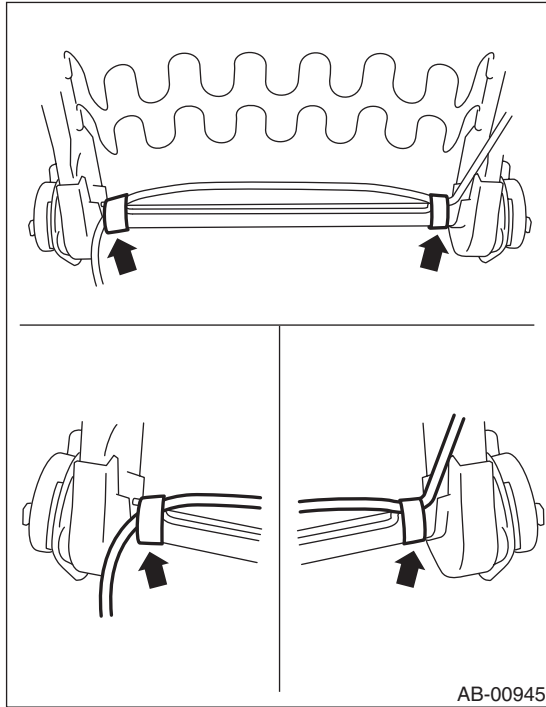
6.0 N·m (0.61 kgf-m, 4.4 ft-lb)



- 3) Install the side airbag harness to backrest frame assembly.

NOTE:

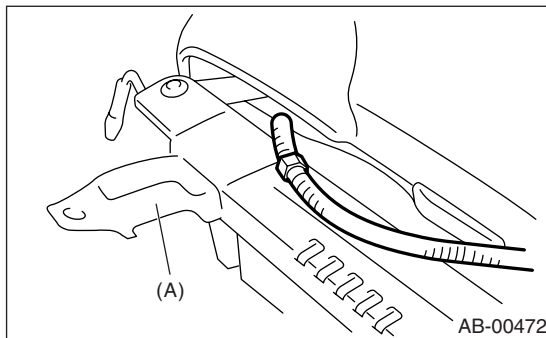
Secure the harness to its original position of seat.



AB-00945

4) Install the backrest cover. <Ref. to SE-18, ASSEMBLY, Front Seat.>

5) Install the side airbag harness to slide rail IN (A), and then secure the connector to the bracket on back side of seat cushion assembly.



AB-00472

6) Recline the seat or slide it backward and forward, and check there is no contact between the seat backrest assembly, cushion cover assembly and side airbag harness.

C: INSPECTION

CAUTION:

Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

Perform the inspection of following items, and replace the damaged parts with new ones. <Ref. to AB-13, SIDE AIRBAG MODULE, INSPECTION, Inspection Locations After a Collision.>

1) With side collision (when side airbag is deployed)

- Side airbag module assembly
- Backrest pad assembly
- Backrest frame assembly
- Backrest cover assembly

2) Other replacement parts, which found to be damaged by visual check

- Headrest assembly
- Bushing
- Slide rail OUT (Driver's side)
- Slide rail IN (Driver's side)
- Seat cushion frame ASSY (Passenger's side)
- Seat hinge cover
- Seat lifter lever
- Reclining lever
- Side airbag harness and connector on body side.

3) With side collision (when side airbag is not deployed)

Check the seat and airbag module visually, and then replace them with new ones if damaged or cracked.

Specially inspect the damage of airbag module body, mounting bracket, and harness connector.

4) Without side collision (dirt and damage of cover)
Replace the corresponding part with a new one.

7. Curtain Airbag Module

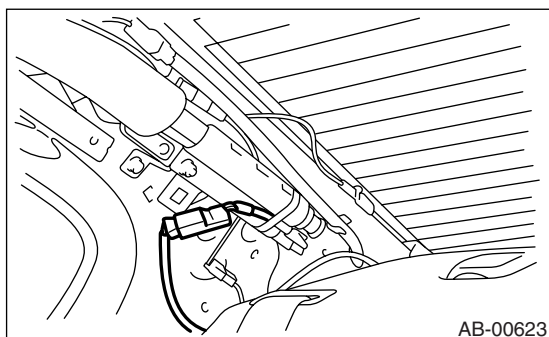
A: REMOVAL

CAUTION:

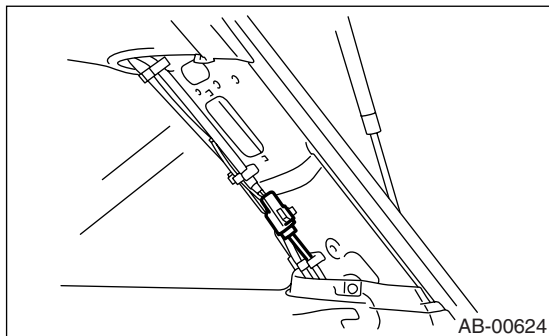
Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the rear quarter trim. (Sedan model) <Ref. to EI-62, SEDAN MODEL, REMOVAL, Rear Quarter Trim.>
- 4) Remove the quarter rear pillar trim. (Wagon model) <Ref. to EI-62, WAGON MODEL, REMOVAL, Rear Quarter Trim.>
- 5) Disconnect the curtain airbag module connector.

- Sedan model



- Wagon model

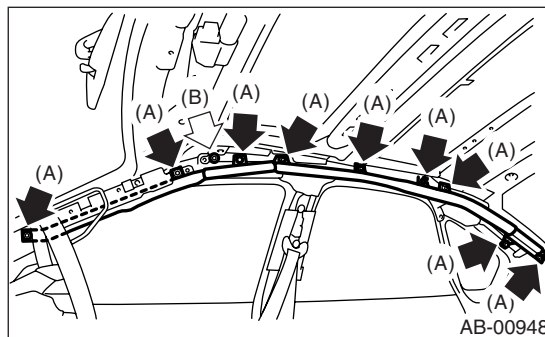


- 6) Remove the roof trim. <Ref. to EI-66, REMOVAL, Roof Trim.>
- 7) Remove the bolts (A) and clips (B), and then remove the curtain airbag module.

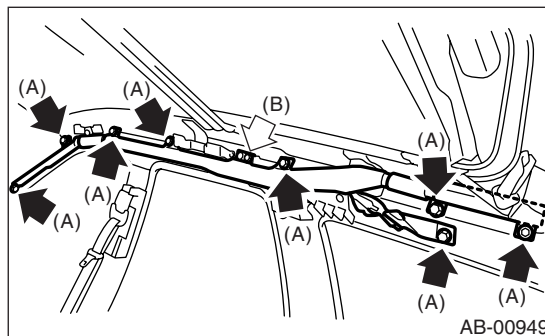
CAUTION:

- Be careful not to damage the curtain airbag module during removal.
- Never open the curtain airbag module before deploying it. Never reuse the opened curtain airbag module.

- Sedan model



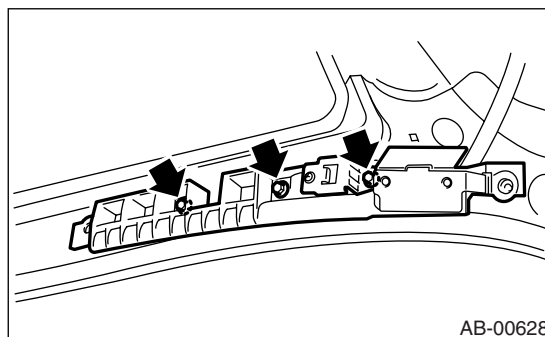
- Wagon model



NOTE:

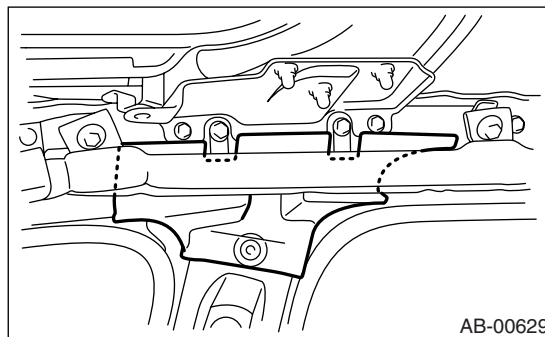
Remove the rear center seat belt retractor on the RH side before servicing.

- 8) Remove the airbag guide A from front pillar.

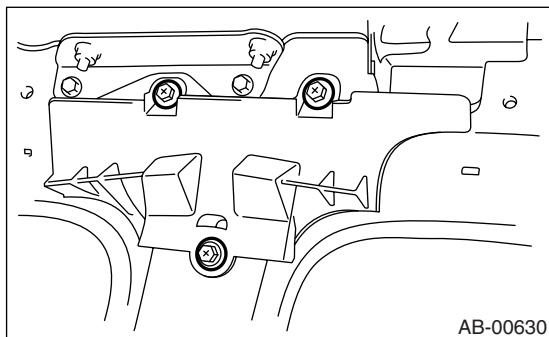


- 9) Remove the airbag guide B from center pillar.

- Sedan model

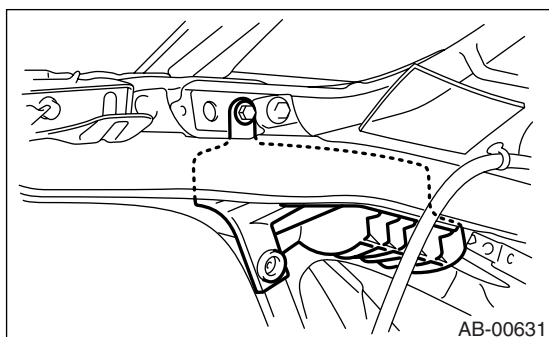


- Wagon model

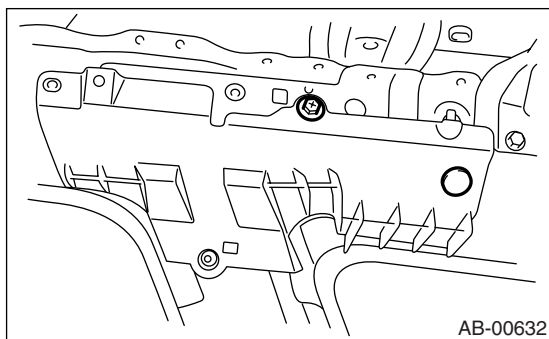


10) Remove the airbag guide C from quarter pillar.

- Sedan model



- Wagon model



B: INSTALLATION

CAUTION:

- Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>
- When installing the curtain airbag module, install a specified part at specified place.
- Be careful not to damage the curtain airbag module during installation.
- Never open the curtain airbag module before deploying it. Never reuse the deployed curtain airbag module.
- Ensure that there are no foreign articles on airbag module.

Install in the reverse order of removal.

Tightening torque:

7.5 N·m (0.77 kgf-m, 5.5 ft-lb)

C: INSPECTION

CAUTION:

Refer to “CAUTION” of General Description before handling the airbag module. <Ref. to AB-5, CAUTION, General Description.>

Perform the inspection of following items, and replace the damaged parts with new ones. <Ref. to AB-14, CURTAIN AIRBAG MODULE, INSPECTION, Inspection Locations After a Collision.>

1) With side collision (when curtain airbag is deployed)

- Curtain airbag module assembly
 - Roof trim
 - Front pillar upper trim
 - Center pillar upper trim
 - Rear quarter pillar trim
 - Airbag guide A, B, C
- 2) Other replacement parts, which found to be damaged by visual check
- Assist grip
 - Assist grip bracket
 - Curtain airbag harness and connector on body side.

3) With side collision (when curtain airbag is not deployed)

Check the roof trim, pillar trim and airbag module visually, and then replace them with new ones if damaged or cracked.

Specially inspect the damage of airbag module body, mounting bracket, harness connector.

4) Without side collision (dirt and damage of cover)
Replace the corresponding part with a new one.

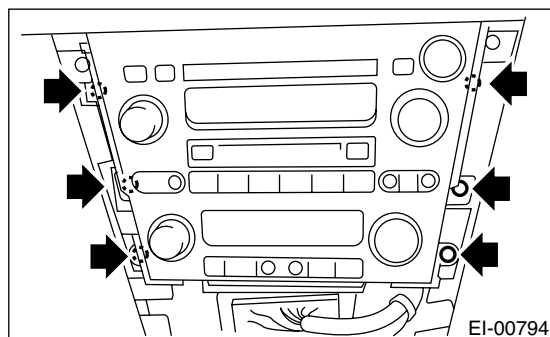
8. Airbag Control Module

A: REMOVAL

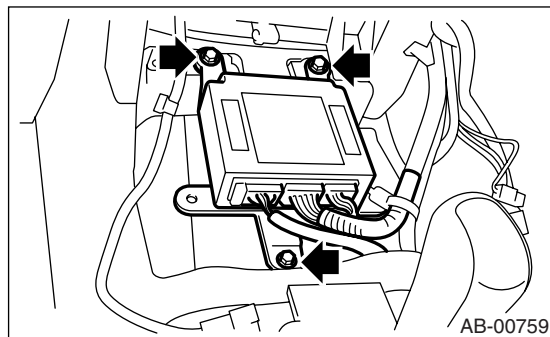
CAUTION:

- Do not disassemble the airbag control module.
- If the airbag control module is deformed or if water damage is suspected, replace the airbag control module with a new one.
- Do not drop the airbag control module.
- After removal, keep the airbag control module on a dry, clean surface away from moisture, heat and dust.

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the console front panel and console side garnish. <Ref. to EI-54, REMOVAL, Center Console.>
- 4) Remove the screws and pull out the audio unit assembly to disconnect the connector for removal.



- 5) Disconnect the connector from airbag control module.
- 6) Remove the bolts and remove airbag control module.



B: INSTALLATION

CAUTION:

- Do not reuse the bolt and nut.
- Always use new bolts and nuts for them.
- Be sure to put the water protection cover over the connector.

Install in the reverse order of removal.

Tightening torque:

25 N·m (2.5 kgf-m, 18.1 ft-lb)

C: INSPECTION

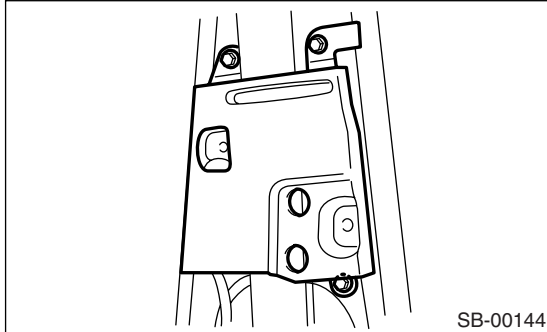
Check for the following, and replace the damaged parts with new parts.

- Control module, connector, and mounting bracket are damaged.
- Airbag is deployed.
- Side airbag is deployed.
- Curtain airbag is deployed.

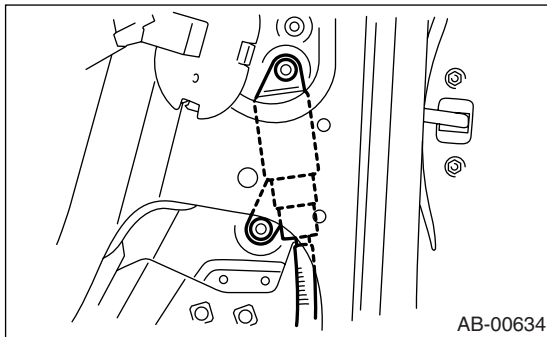
9. Side Airbag Sensor

A: REMOVAL

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the center pillar lower trim. <Ref. to EI-60, REMOVAL, Lower Inner Trim.>
- 4) Remove the center pillar inner protector lower.



- 5) Remove the front outer seat belt retractor. <Ref. to SB-10, OUTER SEAT BELT ASSEMBLY, REMOVAL, Front Seat Belt.>
- 6) Remove the nut and disconnect the airbag connector to remove side airbag sensor.



B: INSTALLATION

CAUTION:

- Do not reuse the bolt and nut.
- Always use new bolts and nuts for them.

Install in the reverse order of removal.

Tightening torque:

7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

C: INSPECTION

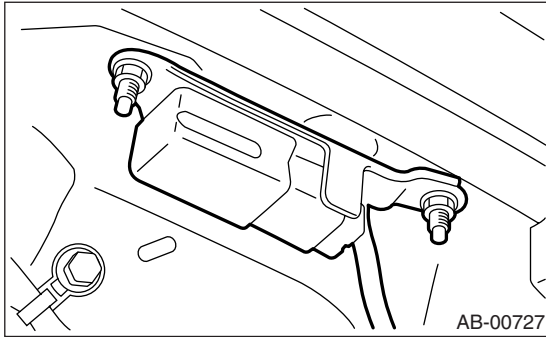
Check for the following, and replace the damaged parts with new parts.

- Mounting bracket of airbag sensor or connector is damaged.
- Side airbag is deployed.

10.Curtain Airbag Sensor

A: REMOVAL

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the rear seat. <Ref. to SE-20, REMOVAL, Rear Seat.>
- 4) Detach the nuts and disconnect the airbag connector to remove the curtain airbag sensor.



B: INSTALLATION

CAUTION:

- Do not reuse the bolt and nut.
- Always use new bolts and nuts for them.

Install in the reverse order of removal.

Tightening torque:

7.4 N·m (0.75 kgf-m, 5.5 ft-lb)

C: INSPECTION

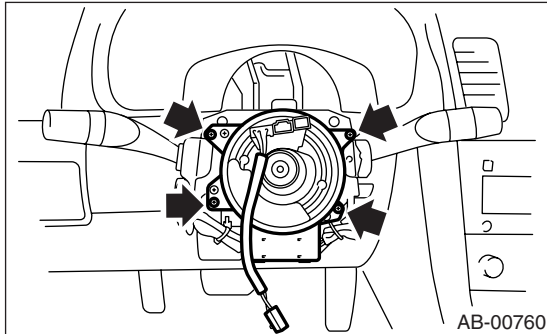
Check for the following, and replace the damaged parts with new parts.

- Mounting bracket of curtain airbag sensor or connector is damaged.
- Curtain airbag is deployed.

11.Roll Connector

A: REMOVAL

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the driver's airbag module. <Ref. to AB-16, REMOVAL, Driver's Airbag Module.>
- 4) Remove the steering wheel. <Ref. to PS-14, REMOVAL, Steering Wheel.>
- 5) Remove the steering column cover.
- 6) Remove the screws, and then remove the roll connector.



B: INSTALLATION

- 1) Install in the reverse order of removal.
- 2) Before installing steering wheel, be sure to adjust the direction of roll connector with steering. <Ref. to AB-25, ADJUSTMENT, Roll Connector.>

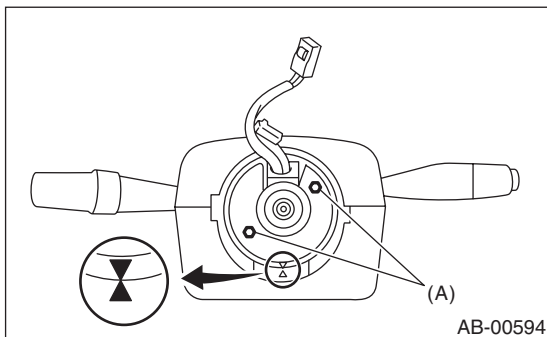
C: INSPECTION

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

- Combination switch and roll connector are cracked or deformed.

D: ADJUSTMENT

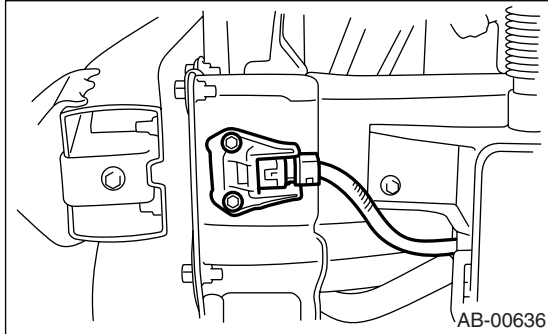
- 1) Check that front wheels are positioned in straight ahead direction.
- 2) Turn the roll connector pins (A) clockwise until it stops.
- 3) Turn the roll connector pins (A) approx. 3.25 turns until "▲" marks are aligned.



12.Front Sub Sensor

A: REMOVAL

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove the front bumper face. <Ref. to EI-30, FRONT BUMPER FACE, REMOVAL, Front Bumper.>
- 4) Remove the bolts, and then detach the front sub sensor.



- 5) Disconnect the connector from front sub sensor.

B: INSTALLATION

CAUTION:

- Do not reuse the bolt and nut.
- Always use new bolts and nuts for them.

Install in the reverse order of removal.

Tightening torque:

13 N·m (1.32 kgf-m, 9.6 ft-lb)

C: INSPECTION

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

- Front sub sensor, mounting bracket and connector are damaged.
- Airbag is deployed.