

16. Airbag Module Disposal (Deployment Processing on Vehicle)

A: PROCEDURE

WARNING:

Make sure to follow the instructions below. Otherwise, personal injuries may occur.

- Before discarding an airbag module, always perform an operation process to prevent any false activation.
- Wear protective gloves, safety goggles and earplugs during this operation. Wash your hands afterwards.
- Do not touch the airbag module just after activation because it is very hot. Before handling it for disposal, wait for 40 minutes.

CAUTION:

- Airbag module operation process should be performed on a flat place in safety area. Do not perform the process outdoors when there is rain or strong wind.
- Activating an airbag module causes a high explosive noise, be sure to warn people in the area, and do not allow anyone within 5 m (16 ft) radius of the disposal site.
- After activating the airbag module, smoke may arise. Therefore, it must be activated in a well-ventilated place with no smoke detector nearby.
- Do not expose the activated airbag module to water.
- Wrap the activated airbag module in a sealed vinyl bag when discarding.
- If it is impossible to perform an airbag module operation process due to some situational reasons, consult SUBARU dealership or one of the authorized workshops.

1. DRIVER'S AIRBAG MODULE

1) Turn the ignition switch to OFF.

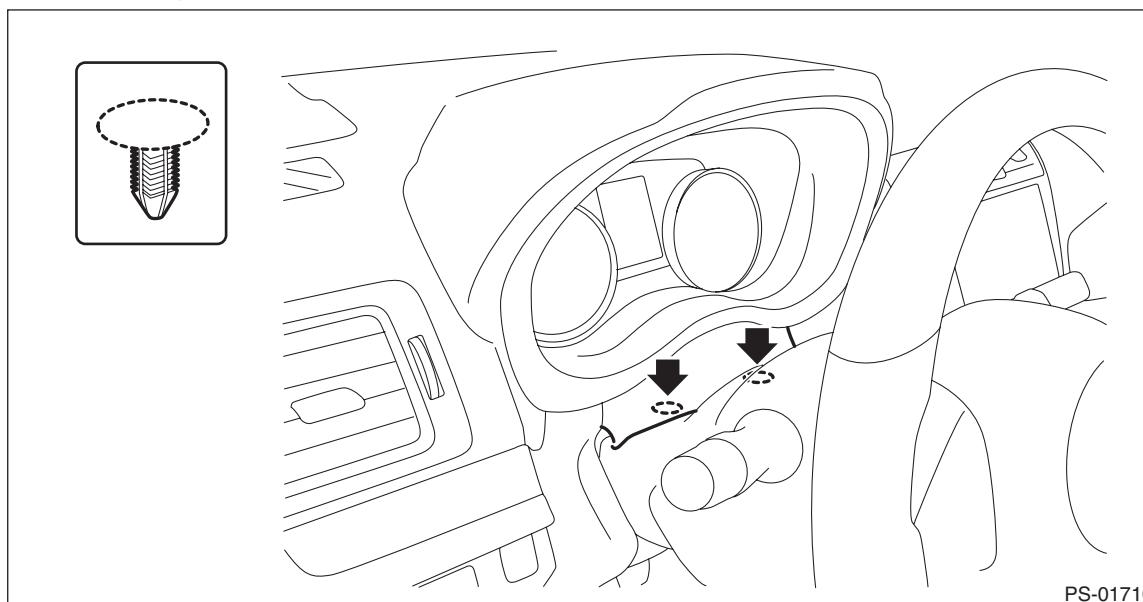
2) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

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

3) Remove the cover assembly - column.

(1) Remove the clips, and remove the cover - column.



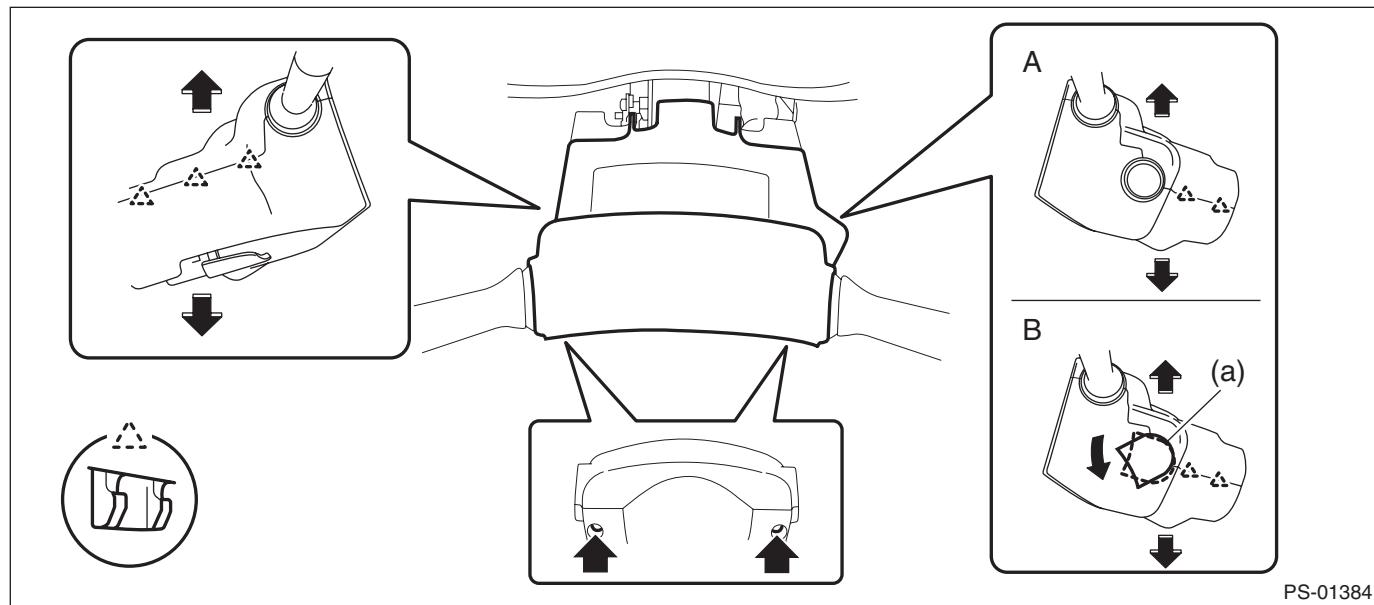
(2) Remove the screws.

(3) Remove the cap - key cylinder (a). (Model with keyless access)

Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

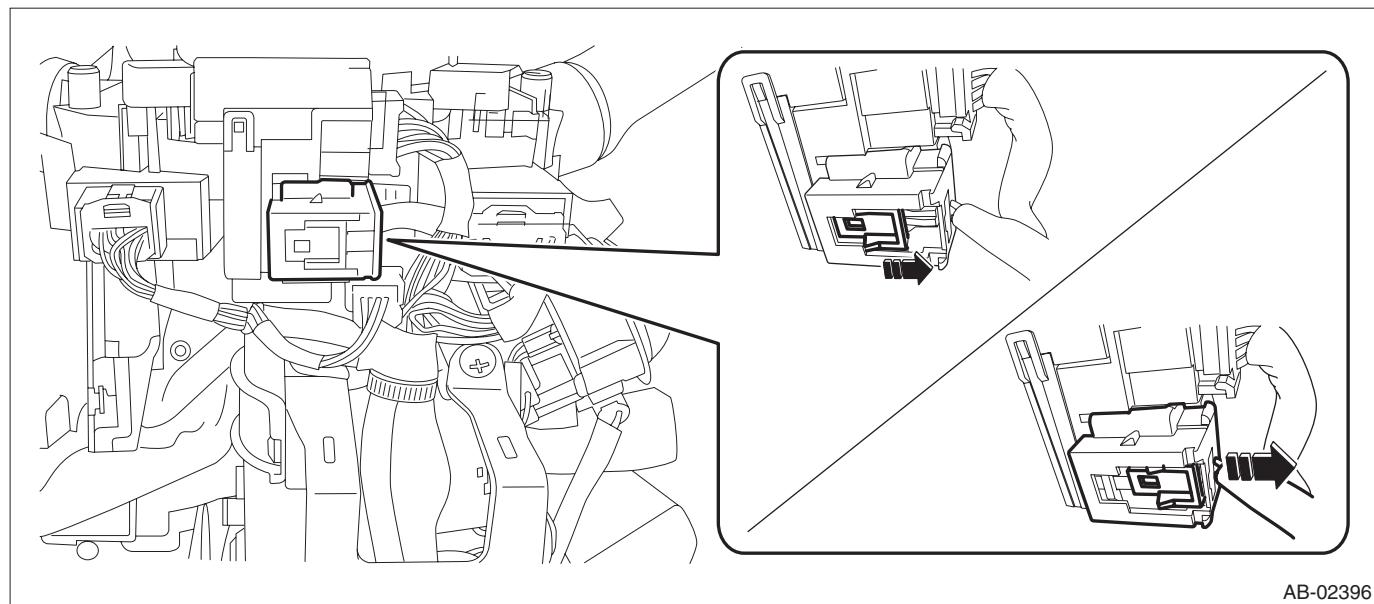
(4) Release the claw, and remove the cover assembly - column UPR and the cover assembly - column LWR.



A Model without keyless access

B Model with keyless access

4) Disconnect the driver's airbag module connector.



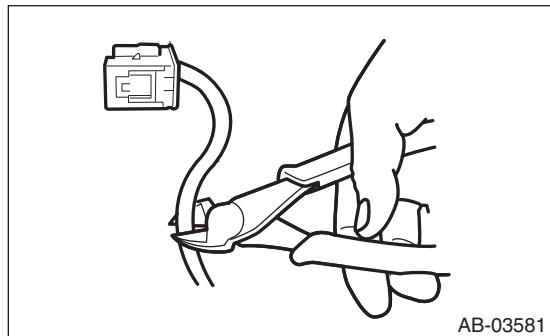
Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

5) Cut off the harness on the body side of the removed connector approx. 70 mm (2.76 in) from the edge of the connector.

Preparation tool:

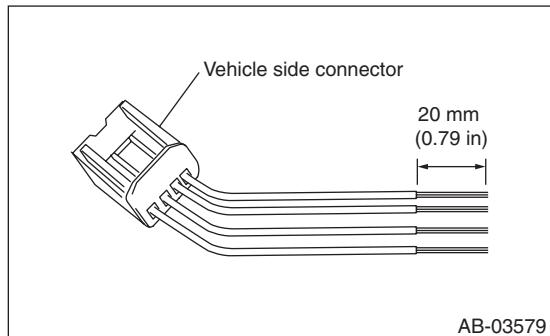
Nippers



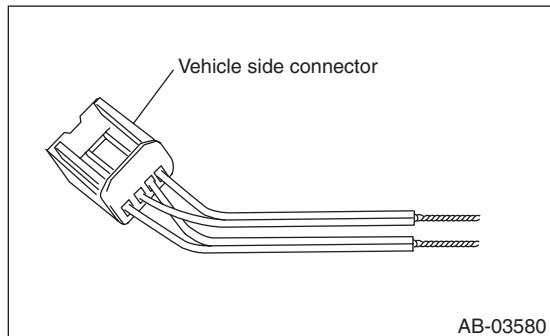
6) Peel off the shield approx. 20 mm (0.79 in) from the four harnesses of the removed body side connector.

Preparation tool:

Wire stripper

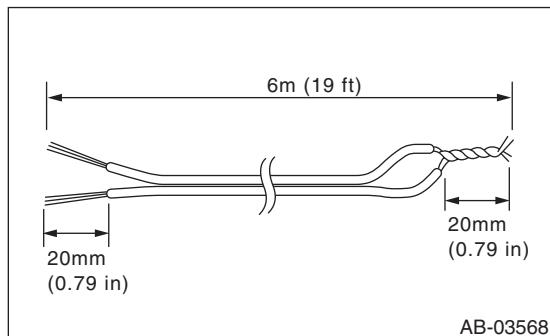


7) Twist the end of harness as shown in the figure.



8) Prepare two vinyl-shielded parallel wires of 6 m (19 ft) long. Peel off the shield of both ends approx. 20 mm (0.79 in) and twist one end together into shorted condition.

9) The other end, not shorted, will be connected to harnesses of repaired body connector as shown in the figure, and insulated with vinyl tape.



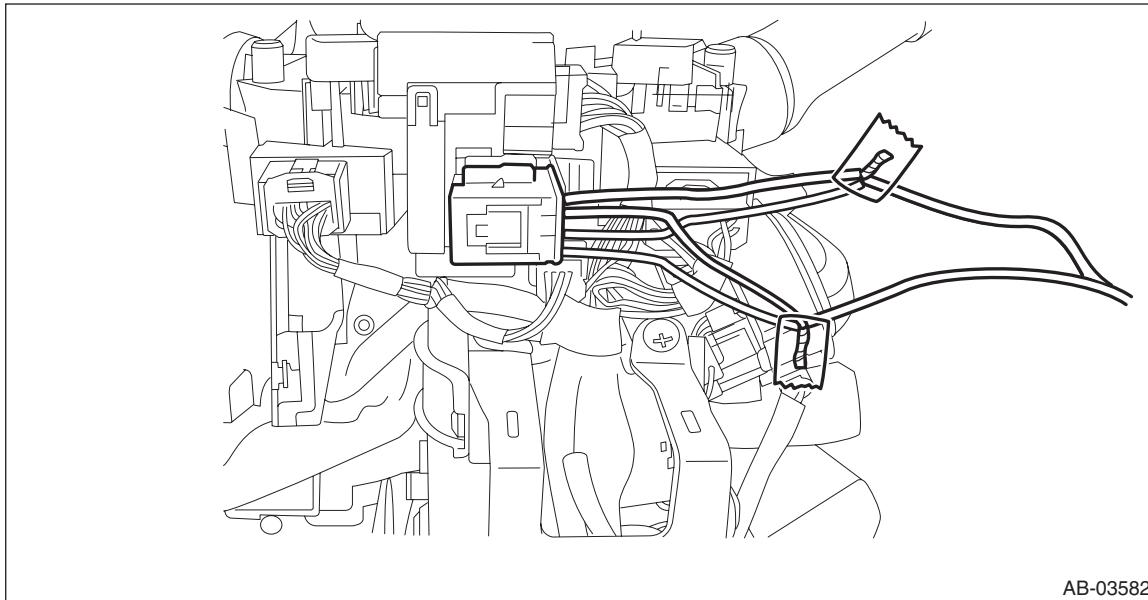
Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

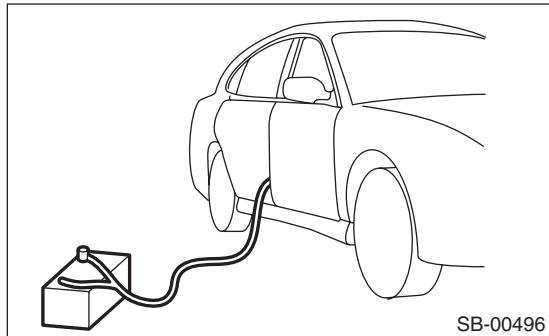
NOTE:

No concern about polarity.

- 10) After completing the connecting work, connect the body side connector to the connector of the airbag connector lower side again.



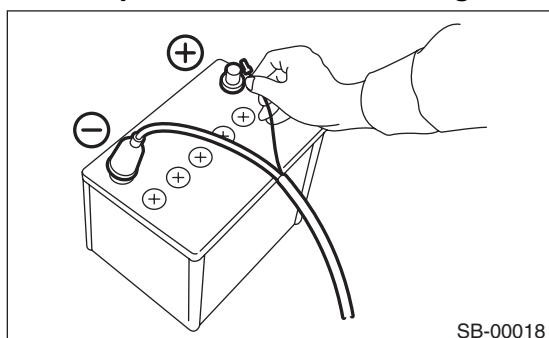
- 11) Bring the vinyl wire for operation out of the vehicle and make sure there is no person in the vehicle.
- 12) Extend the wiring of airbag deployment tool to the limit, and close all the windows and sunroof completely.



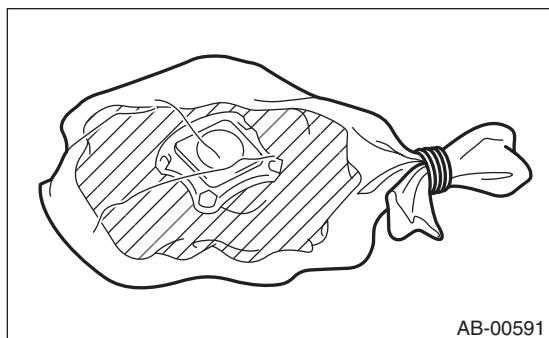
- 13) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.
- 14) Connect the airbag deployment tool alligator clip to the battery negative (-) terminal.
- 15) Connect the other cable of airbag deployment tool to the battery positive (+) terminal, and activate the airbag module.

CAUTION:

- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



- 16) Remove the driver's airbag module. <Ref. to AB-33, REMOVAL, Driver's Airbag Module.>
- 17) Place the activated airbag module in a sealed vinyl bag, then discard.



2. KNEE AIRBAG MODULE

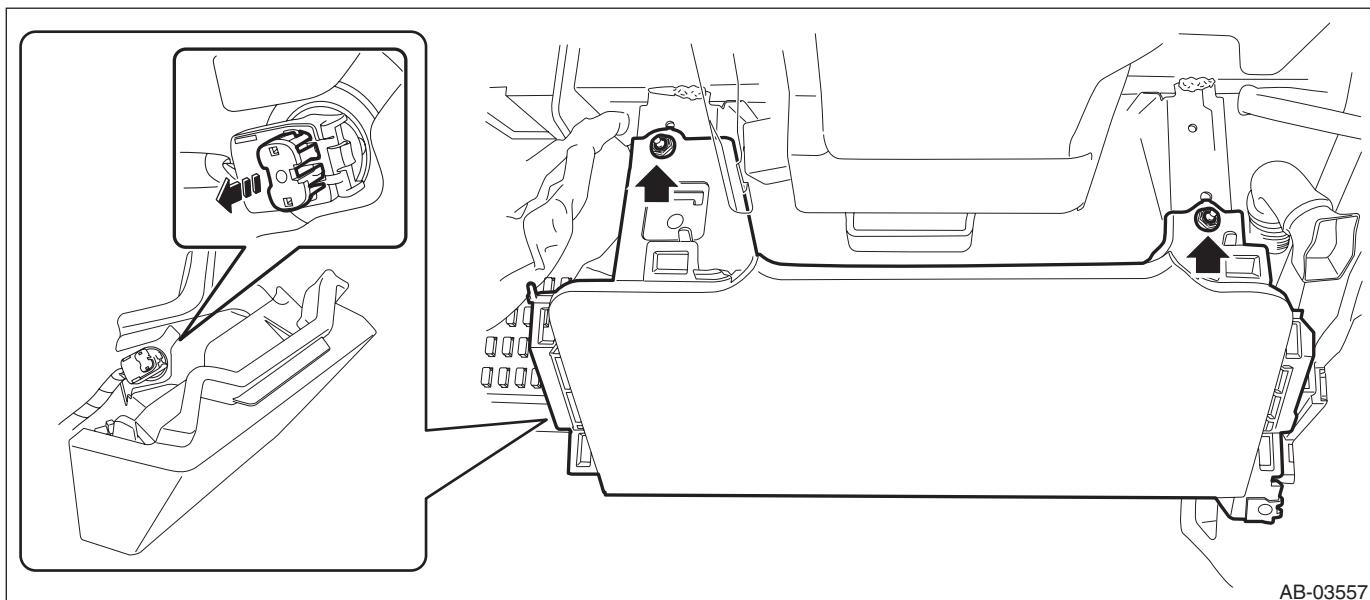
- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

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

- 3) Remove the cover assembly - instrument panel LWR driver. <Ref. to EI-61, REMOVAL, Instrument Panel Lower Cover.>

- 4) Remove the nuts to remove the knee airbag module and disconnect the harness connector. <Ref. to AB-19, DRIVER'S AIRBAG MODULE, CURTAIN AIRBAG MODULE & PRETENSIONER, PROCEDURE, Airbag Connector.>



- 5) Short the terminal to the alligator clip furnished as airbag deployment tool.

CAUTION:

The airbag deployment tool should be kept shorted on the terminals until just before activation of airbag module.

Preparation tool:

ST: AIRBAG DEPLOYMENT TOOL (98299PA030)

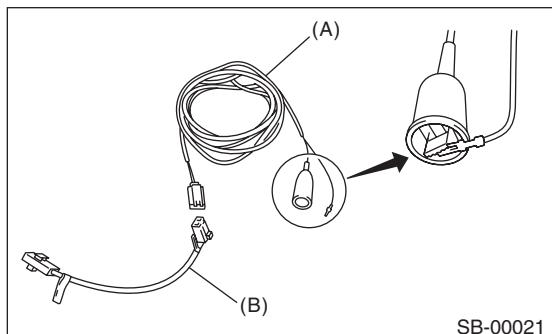
Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

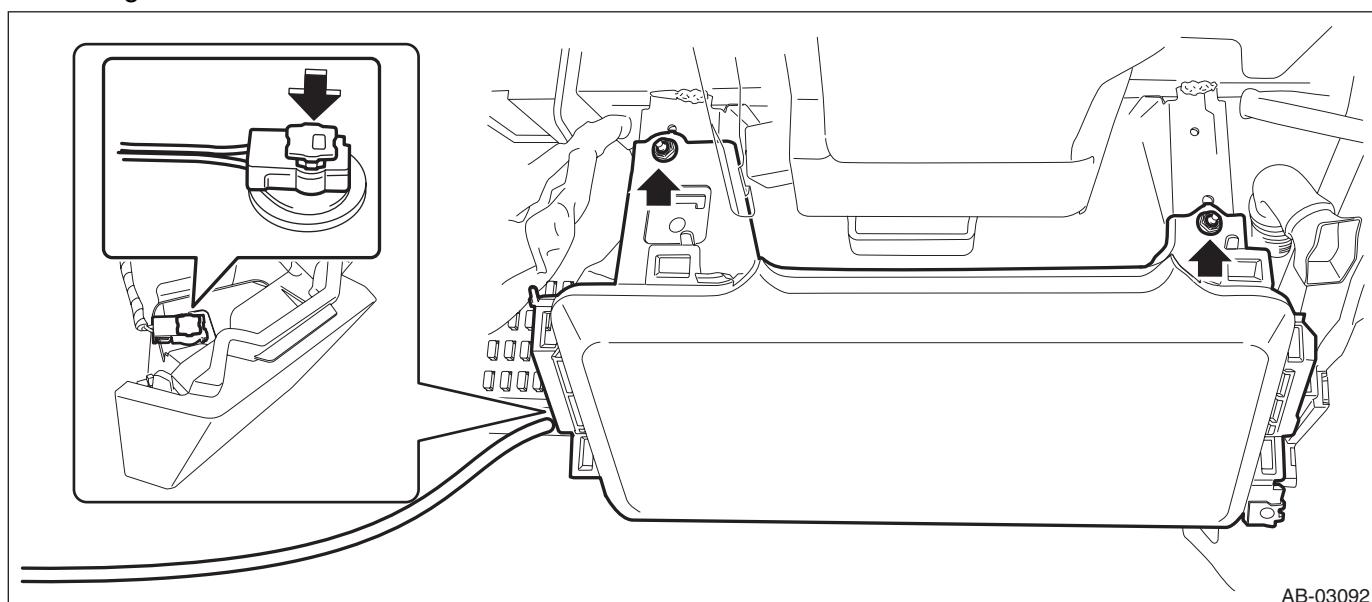
- 6) Connect the airbag deployment tool (A) and test harness adapter D (B).

Preparation tool:

ST: TEST HARNESS ADAPTER D (98299SA010)



- 7) Connect the test harness adapter D to the knee airbag module and install the knee airbag module to the vehicle again.

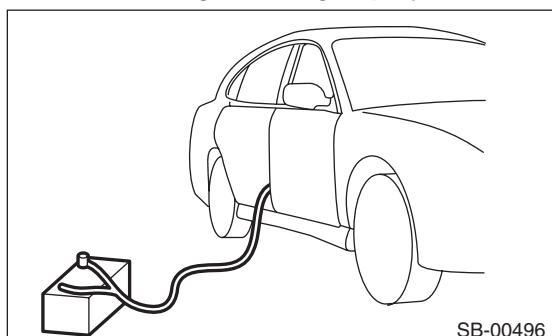


Tightening torque:

7.5 N·m (0.8 kgf·m, 5.5 ft-lb)

- 8) Make sure there is no one inside the vehicle.

- 9) Extend the wiring of airbag deployment tool to the limit, and close all the windows and sunroof completely.



- 10) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.

- 11) Connect the airbag deployment tool alligator clip to the battery negative (-) terminal.

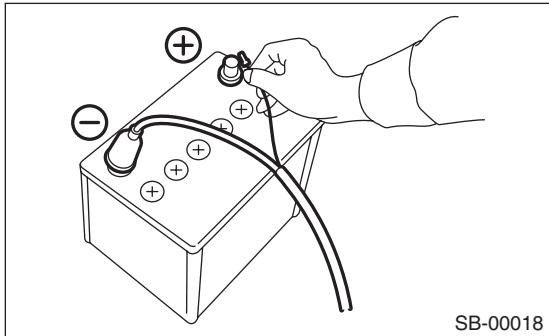
Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

12) Connect the other cable of airbag deployment tool to the battery positive (+) terminal, and activate the airbag module.

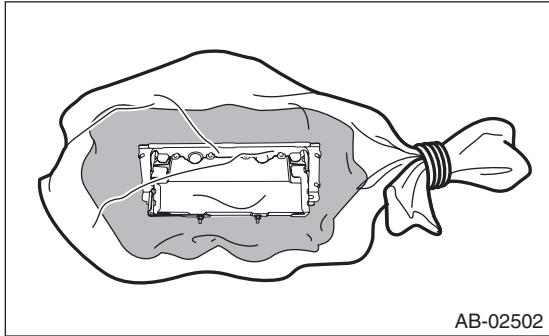
CAUTION:

- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



13) Remove the bolts and remove knee airbag module.

14) Place the activated airbag module in a sealed vinyl bag, then discard.



NOTE:

When necessary, fold the fabric part of airbag into three or four sections, rope and seal in a vinyl bag.

Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

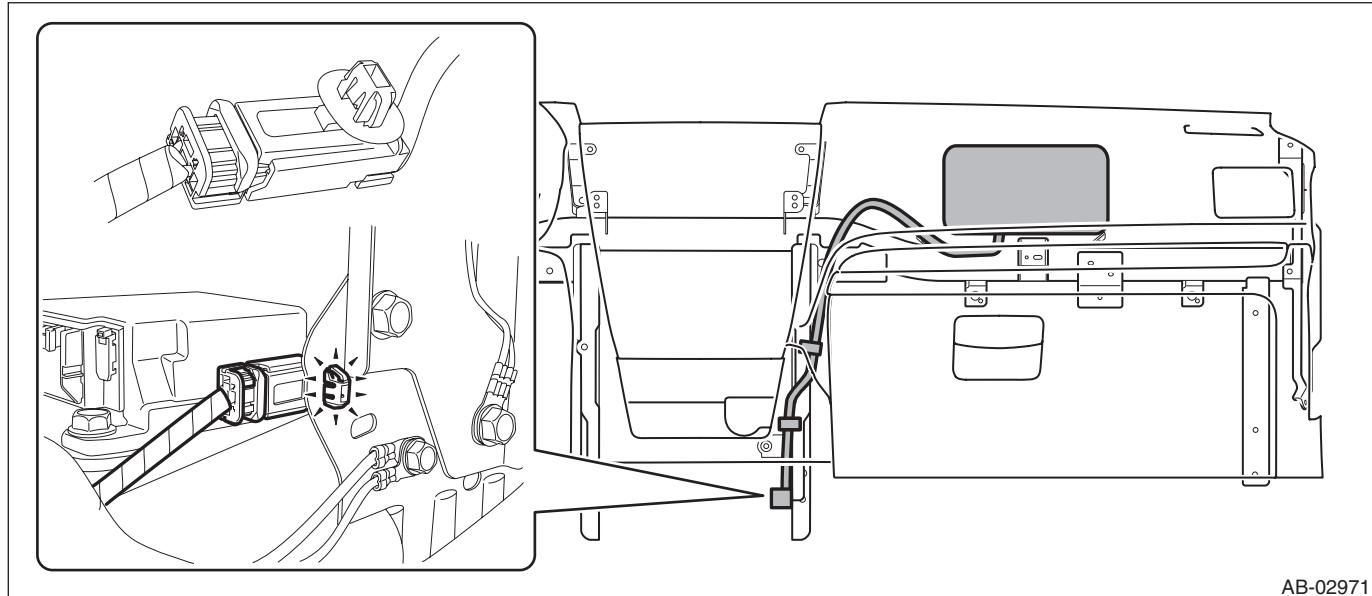
3. PASSENGER'S AIRBAG MODULE

- 1) Turn the ignition switch to OFF.
- 2) 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.

- 3) Remove the cover - shift lever, the panel center LWR RH, and the console box assembly. <Ref. to EI-67, REMOVAL, Console Box.>
- 4) Disconnect the passenger's airbag module connector.



- 5) Short the terminal to the alligator clip furnished as airbag deployment tool.

CAUTION:

The airbag deployment tool should be kept shorted on the terminals until just before activation of airbag module.

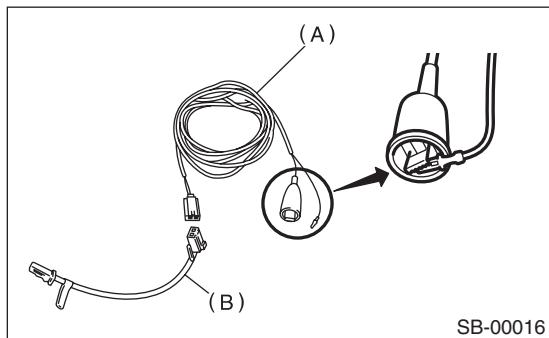
Preparation tool:

ST: AIRBAG DEPLOYMENT TOOL (98299PA030)

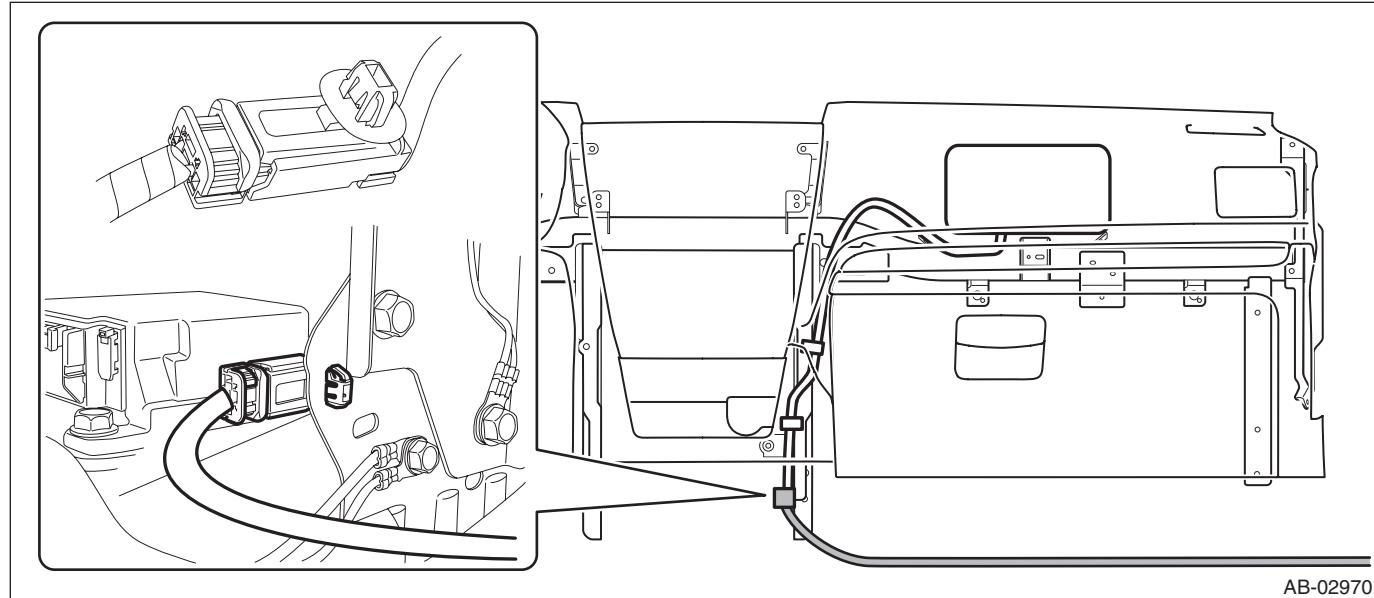
- 6) Connect airbag deployment tool (A) and test harness adapter AM (B).

Preparation tool:

ST: TEST HARNESS ADAPTER AM (98299FJ000)

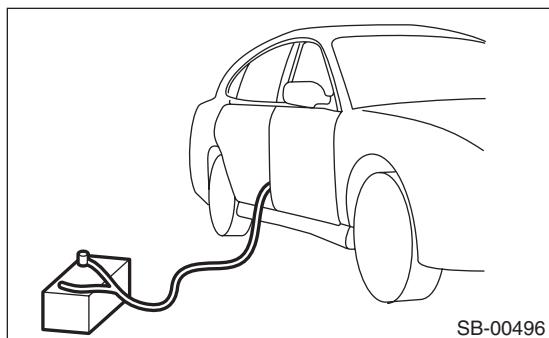


7) Connect test harness adapter AM to airbag connector.



8) Make sure there is no one inside the vehicle.

9) Extend the wiring of airbag deployment tool to the limit, and close all the windows and sunroof completely.



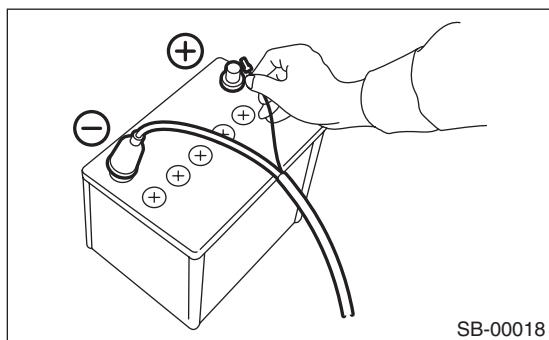
10) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.

11) Connect the airbag deployment tool alligator clip to the battery negative (-) terminal.

12) Connect the other cable of airbag deployment tool to the battery positive (+) terminal, and activate the airbag module.

CAUTION:

- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.

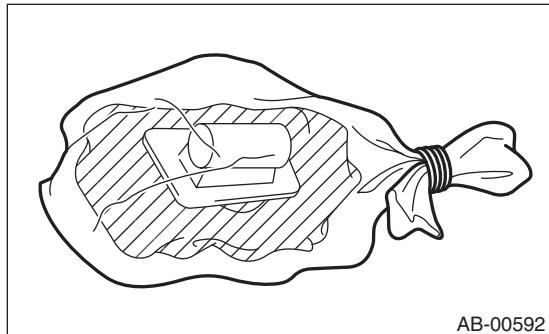


13) Remove the passenger's airbag module. <Ref. to AB-36, REMOVAL, Passenger's Airbag Module.>

Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

- 14) Place the activated airbag module in a sealed vinyl bag, then discard.



4. SIDE AIRBAG MODULE

- 1) Turn the ignition switch to OFF.
- 2) 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.

- 3) Disconnect the side airbag module connector under the front seat cushion. <Ref. to AB-23, SIDE AIRBAG MODULE, PROCEDURE, Airbag Connector.>

- 4) Adjust both the front seat and front seat backrest to the center positions.

- 5) Short the terminal to the alligator clip furnished as airbag deployment tool.

CAUTION:

The airbag deployment tool should be kept shorted on the terminals until just before activation of airbag module.

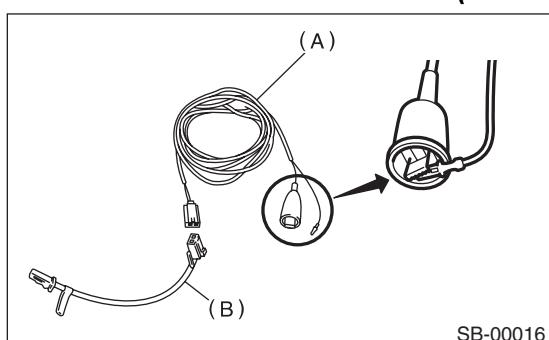
Preparation tool:

ST: AIRBAG DEPLOYMENT TOOL (98299PA030)

- 6) Connect the airbag deployment tool (A) and test harness adapter K (B).

Preparation tool:

ST: TEST HARNESS ADAPTER K (98299FG010)



- 7) Connect the test harness adapter K to side airbag module connector (yellow).

CAUTION:

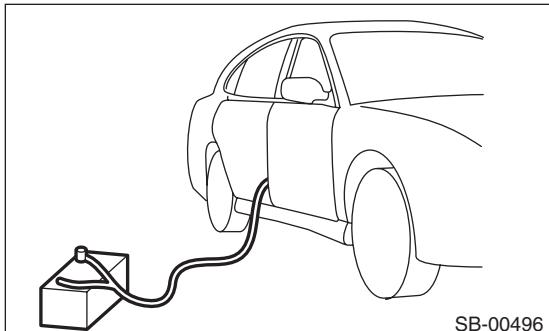
Do not place any object on front seat.

- 8) Make sure there is no one inside the vehicle.

Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

9) Extend the wiring of airbag deployment tool to the limit, and close all the windows and sunroof completely.



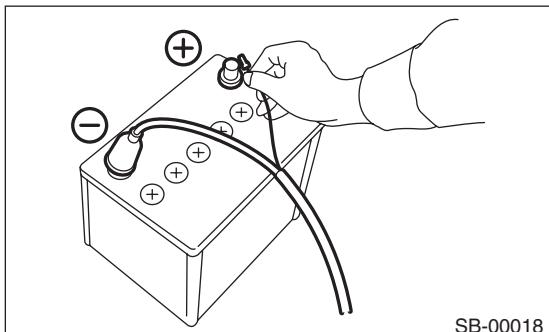
10) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.

11) Connect the airbag deployment tool alligator clip to the battery negative (-) terminal.

12) Connect the other cable of airbag deployment tool to the battery positive (+) terminal, and activate the airbag module.

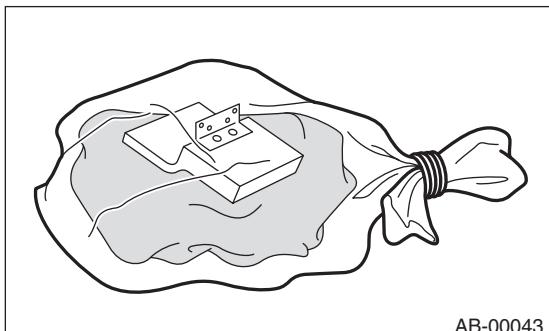
CAUTION:

- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



13) Remove the side airbag module. <Ref. to AB-43, REMOVAL, Side Airbag Module.>

14) Place the activated airbag module in a sealed vinyl bag, then discard.



Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

5. CURTAIN AIRBAG MODULE

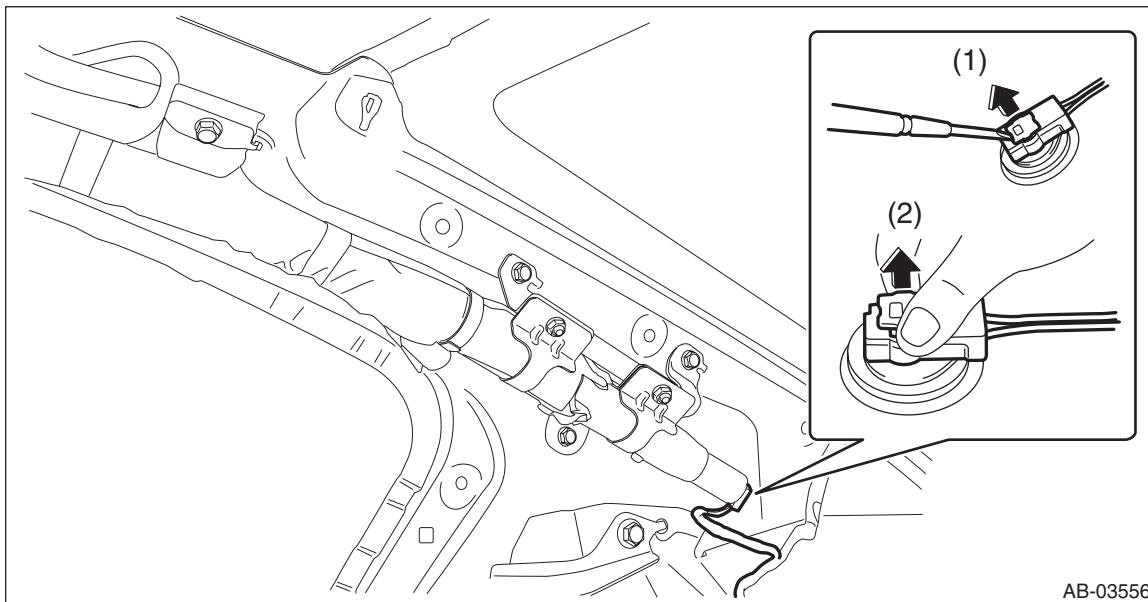
- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

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

- 3) Remove the roof trim. <Ref. to EI-99, REMOVAL, Roof Trim.>

- 4) Disconnect the curtain airbag harness. <Ref. to AB-17, PROCEDURE, Airbag Connector.>



- 5) Short the terminal to the alligator clip furnished as airbag deployment tool.

CAUTION:

The airbag deployment tool should be kept shorted on the terminals until just before activation of airbag module.

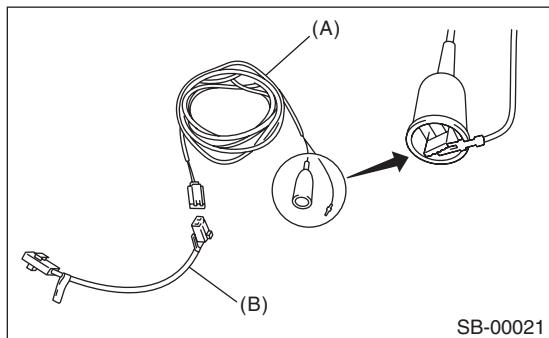
Preparation tool:

ST: AIRBAG DEPLOYMENT TOOL (98299PA030)

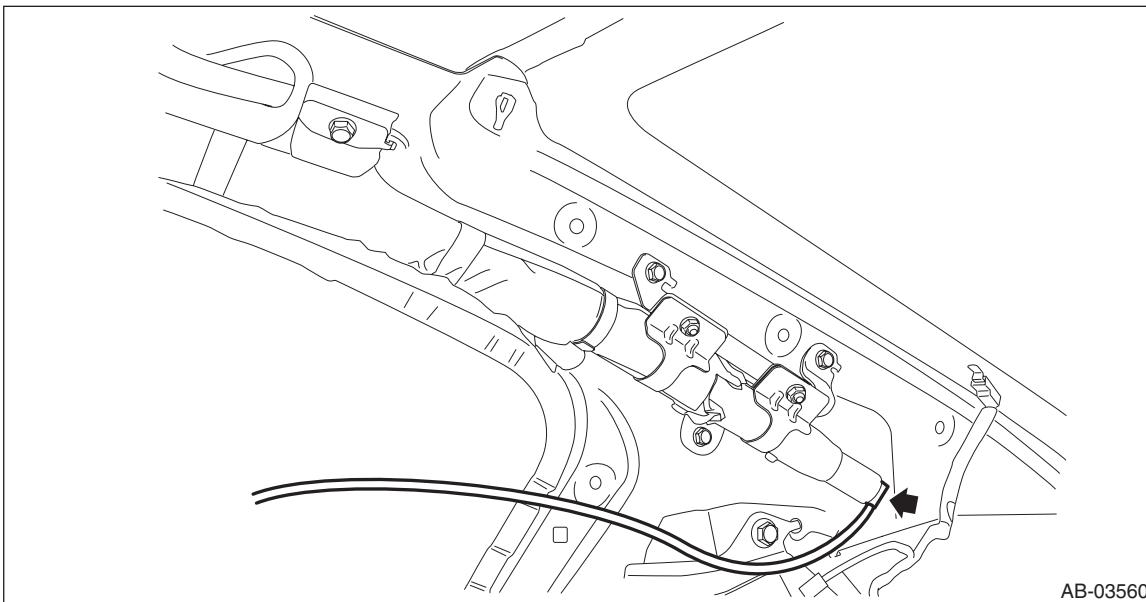
- 6) Connect the airbag deployment tool (A) and test harness adapter D (B).

Preparation tool:

ST: TEST HARNESS ADAPTER D (98299SA010)

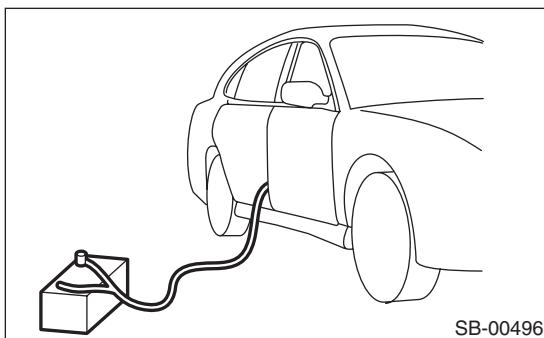


7) Connect the test harness adapter D to the curtain airbag module.



8) Make sure there is no one inside the vehicle.

9) Extend the wiring of airbag deployment tool to the limit, and close all the windows and sunroof completely.



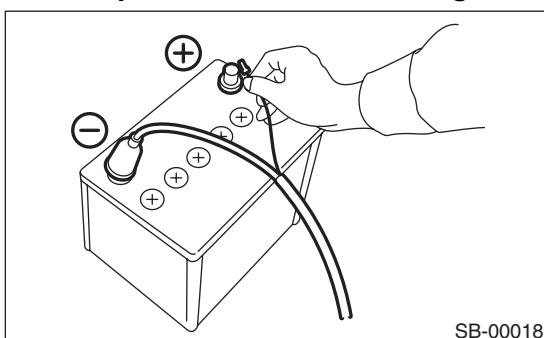
10) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.

11) Connect the airbag deployment tool alligator clip to the battery negative (-) terminal.

12) Connect the other cable of airbag deployment tool to the battery positive (+) terminal, and activate the airbag module.

CAUTION:

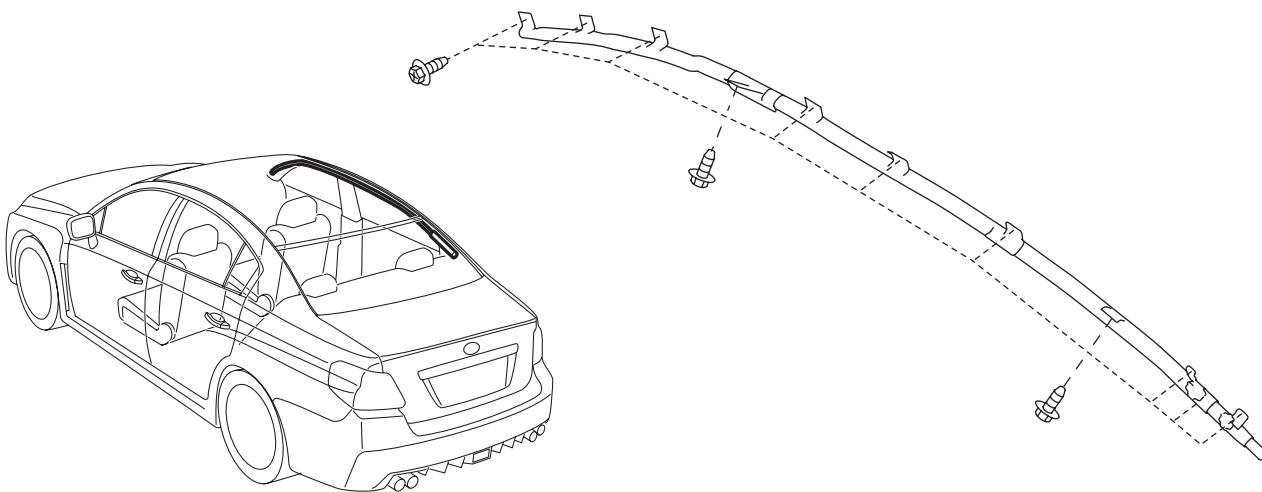
- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



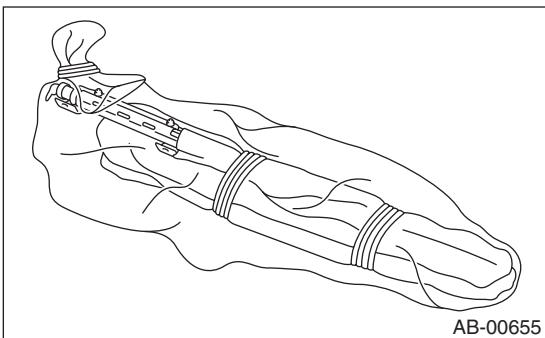
Airbag Module Disposal (Deployment Processing on Vehicle)

AIRBAG SYSTEM

- 13) Remove the bolts and clips, and remove the curtain airbag module.



- 14) Place the activated airbag module in a sealed vinyl bag, then discard.



NOTE:

When necessary, fold the fabric part of airbag into three or four sections, rope and seal in a vinyl bag.

AIRBAG SYSTEM (DIAGNOSTICS)

AB(diag)

	Page
1. Basic Diagnostic Procedure	2
2. Check List for Interview	3
3. General Description	4
4. Electrical Component Location	17
5. Airbag Connector	19
6. Airbag Control Module I/O Signal	20
7. Subaru Select Monitor	22
8. Read Diagnostic Trouble Code (DTC)	25
9. Inspection Mode	26
10. Clear Memory Mode	27
11. Read Current Data	28
12. Event Record Data	29
13. Batch save of Event record data	30
14. Airbag Warning Light Illumination Pattern	31
15. Airbag Warning Light Failure	32
16. List of Diagnostic Trouble Code (DTC)	33
17. Diagnostic Chart with Trouble Code	42