

Description

- Driver Air Bag (DAB)

DAB is installed in the steering wheel, and electrically connected to the SRSCM via clock spring. It is deployed during frontal impact to protect the driver.

- Clock Spring

Clock spring delivers actuation signal, generated by the sensors installed in the front and right/left sides of a vehicle, to the inflator (gas generator) of the driver air bag module via internal cable.

It also delivers actuation signal of the steering wheel remote control switch and horn to relevant systems via internal cable.



- Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

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Inspection

Driver Airbag (DAB)

If any improper parts are found during the following inspection, replace the airbag module with a new one.



- Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using a specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

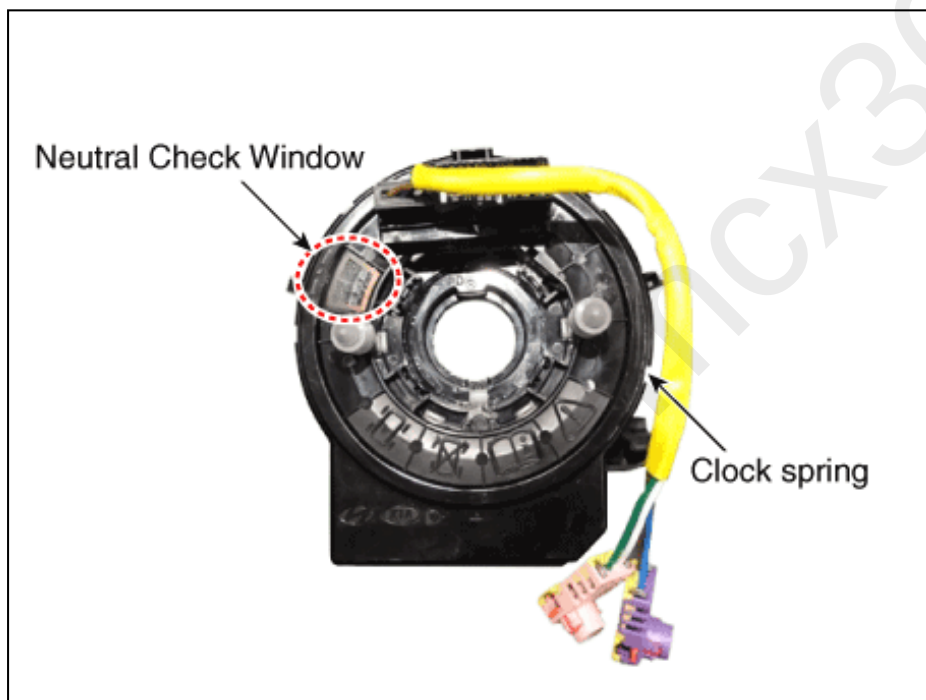
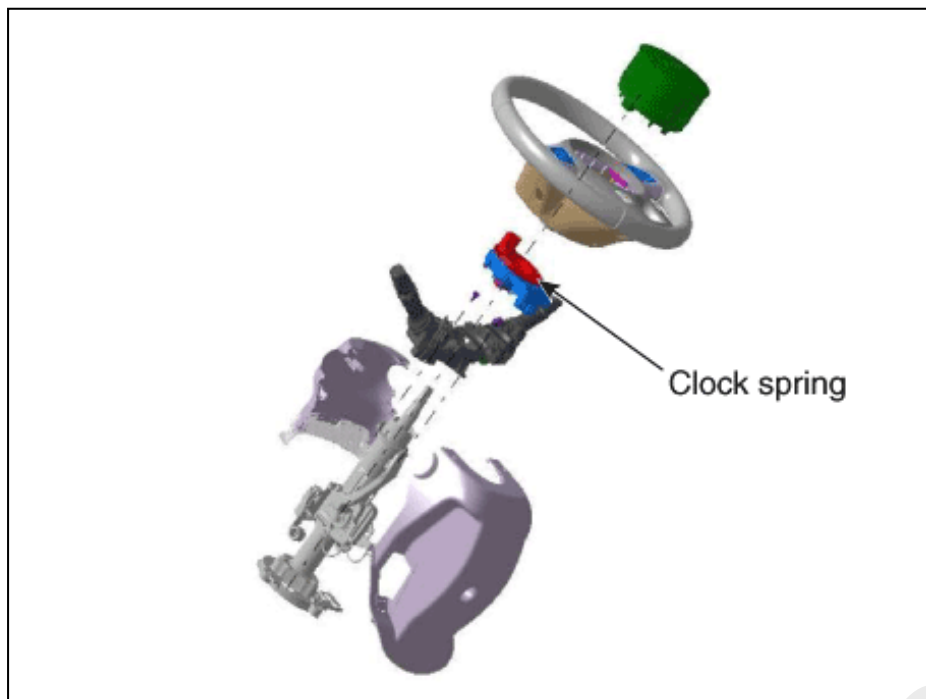
1. Check pad cover for dents, cracks or deformities.
2. Check the airbag module for denting, cracking or deformation.
3. Check hooks and connectors for damage, terminals for deformities, and harness for binds.
4. Check airbag inflator case for dents, cracks or deformities.



Clock Spring

1. If any improper parts are found during inspection, replace the clock spring with a new one.

2. Check connectors and protective tube for damage, and terminals for deformities.



Removal

1. Set the front tires straight-ahead.

2. Disconnect the battery negative terminal.

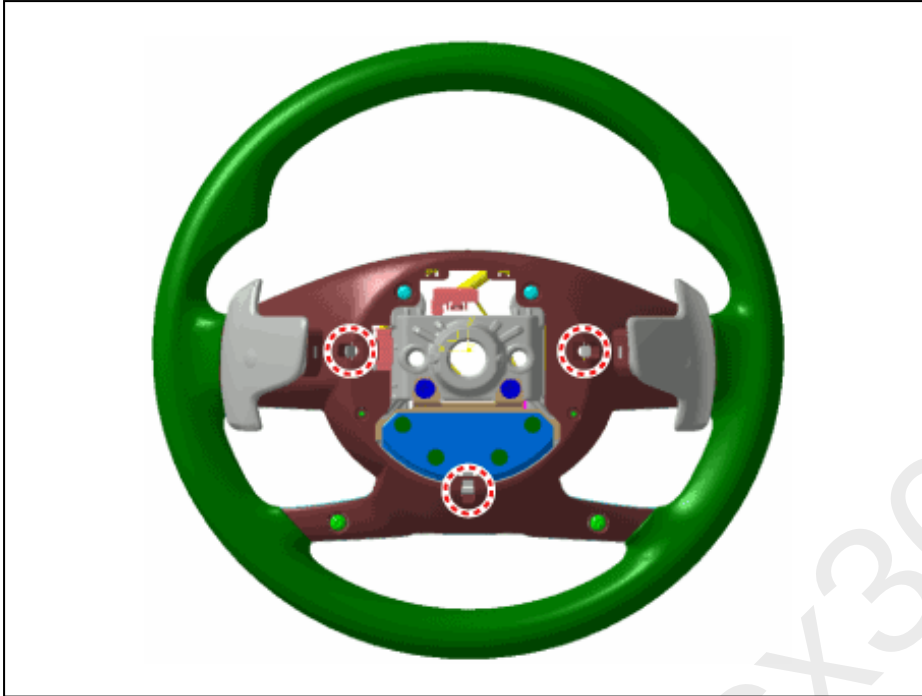


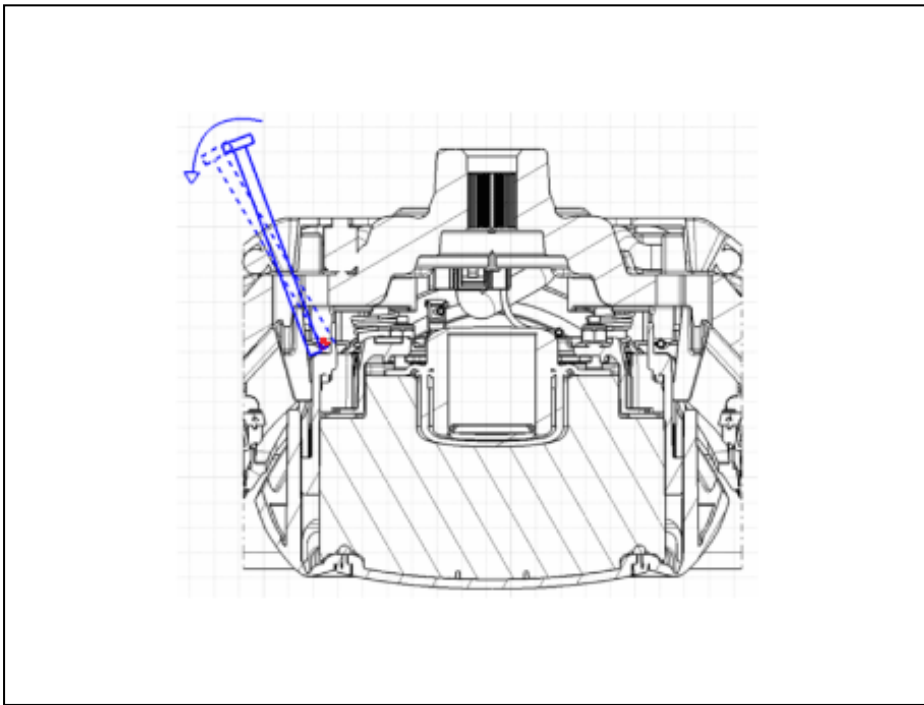
•After disconnecting the cables, wait at least 3 minutes.

3. Put a flat tool (Ø5mm) into a guide hole located in the left/right of steering wheel and press a DAB fastening pin.

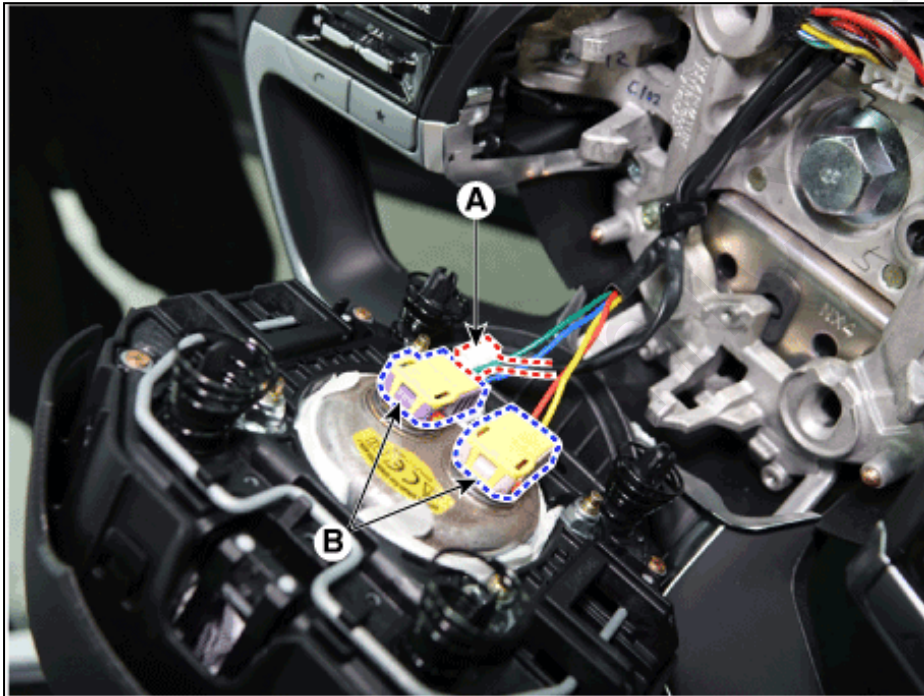
4. Press both sides in hole order (regardless of left/right order)

– If the DAB removal does not go smoothly even after pressing twice, press the opposite hole again.



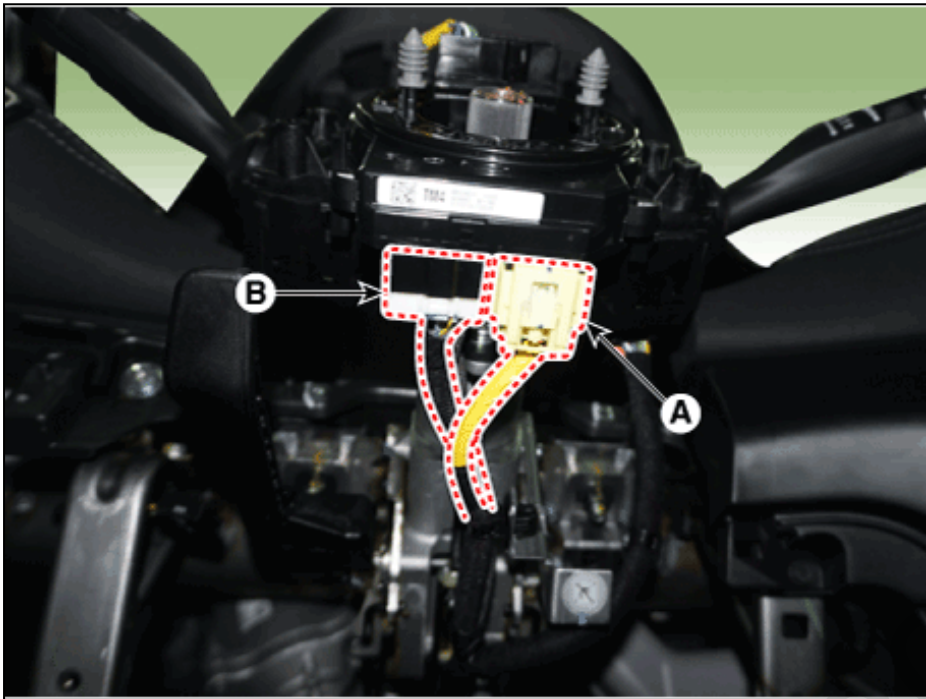


5. Remove the airbag module from the steering wheel by disconnecting the horn connector (A) and airbag module connectors (B).



6. Remove the steering wheel.
(Refer to Steering System - "Steering Wheel")

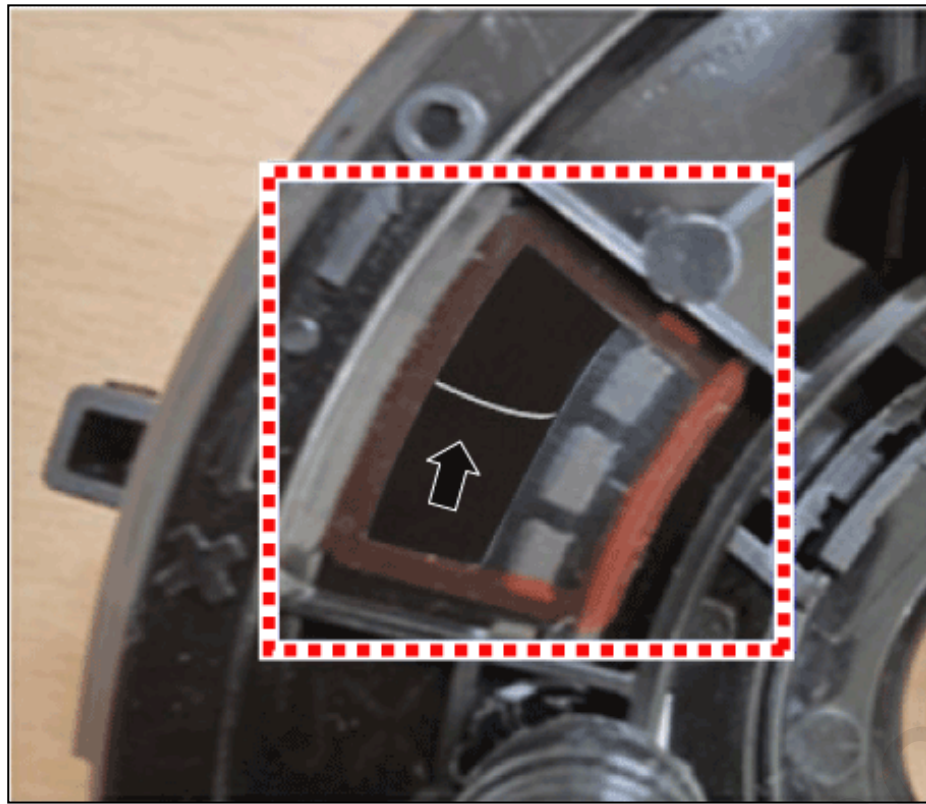
- 7. Remove the steering column shroud lower panel.
(Refer to Body - "Steering Column Shroud Panel")
- 8. Remove the clock spring after disconnecting the clock spring connector (A) and horn connector (B).



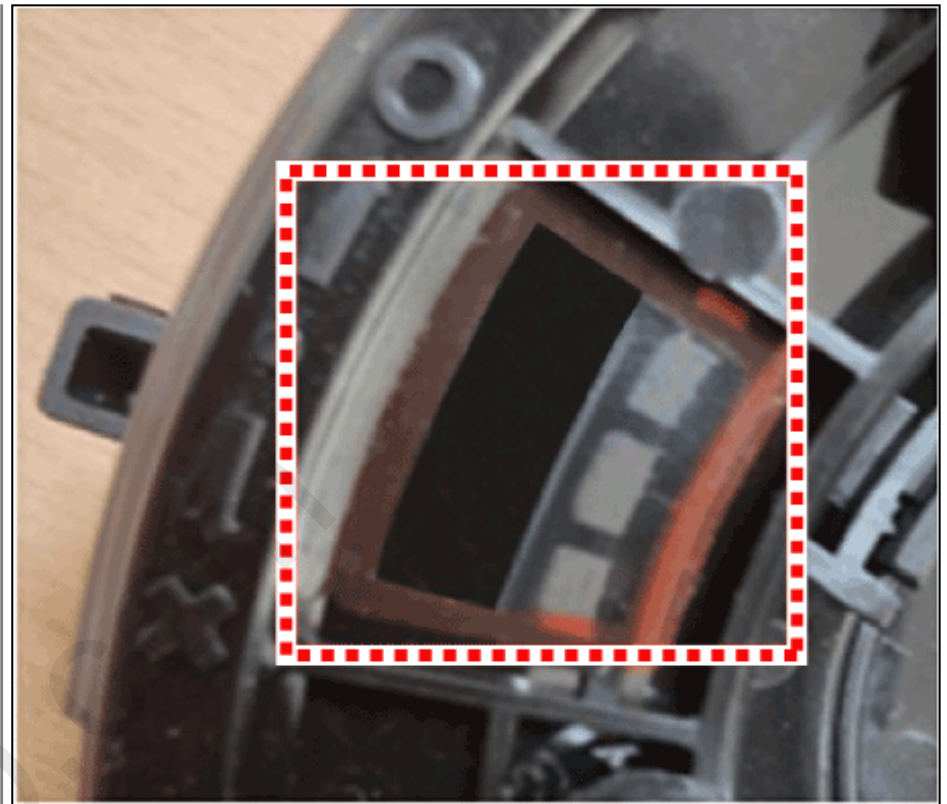
Installation

- 1. Set the front tires straight-ahead.
- 2. Turn the ignition switch OFF.
- 3. Disconnect the battery negative cable from the battery and wait for at least three minutes before beginning the work.
- 4. Connect the clock spring harness connector and horn harness connector to the clock spring.
- 5. Factory setting for the clock spring is neutral.
 - 1)If white cable is visible through the product's 10 O' Clock Neutral Check Window, then the spring is at neutral.
 - 2)If white cable is not visible through the product's 10 O' Clock Neutral Check Window, then manually adjust the setting to neutral.

Neutral Check Window : Normal	Neutral Check Window : Fault



White cable is visible through 10 O' Clock Neutral Check Window



White cable is not visible through 10 O' Clock Neutral Check Window

6. Clock spring manual neutral setting procedure.

- (1) Press the Auto Lock at 6 O' Clock and turn clockwise 3 rotations.



(2) Press the Auto Lock at 6 O' Clock and turn counter-clockwise 3 rotations.

(3) If white cable is visible through the 10 O' Clock Neutral Check Window, then the spring is set to neutral.



7. Install the steering wheel column shroud and the steering wheel.
(Refer to Body - "Steering Column Shroud Panel")
8. Install the steering wheel.
(Refer to Steering System - "Steering Wheel")
9. Connect the Driver Airbag (DAB) module connector and horn connector, and then install the Driver Airbag (DAB) module on the steering wheel.
10. Connect the battery negative cable.
11. After installing the airbag, confirm proper system operation :
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.
 - Make sure horn button works.

Description

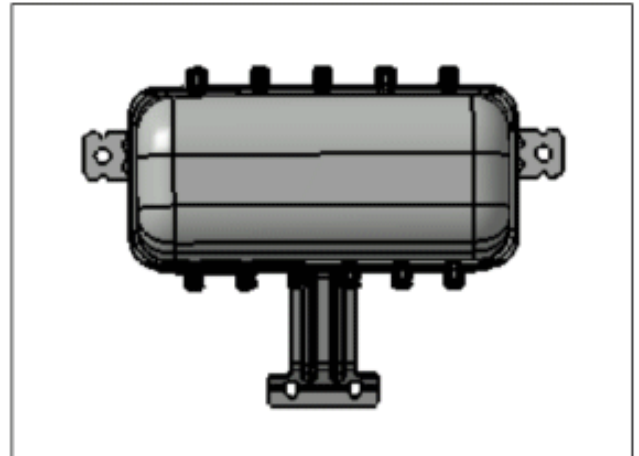
The passenger airbag (PAB) is installed inside the crash pad and protects the front passenger in the event of a frontal crash. The SRSCM determines if and when to deploy the PAB.



- Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using a specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

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1. Passenger Air Bag (PAB)

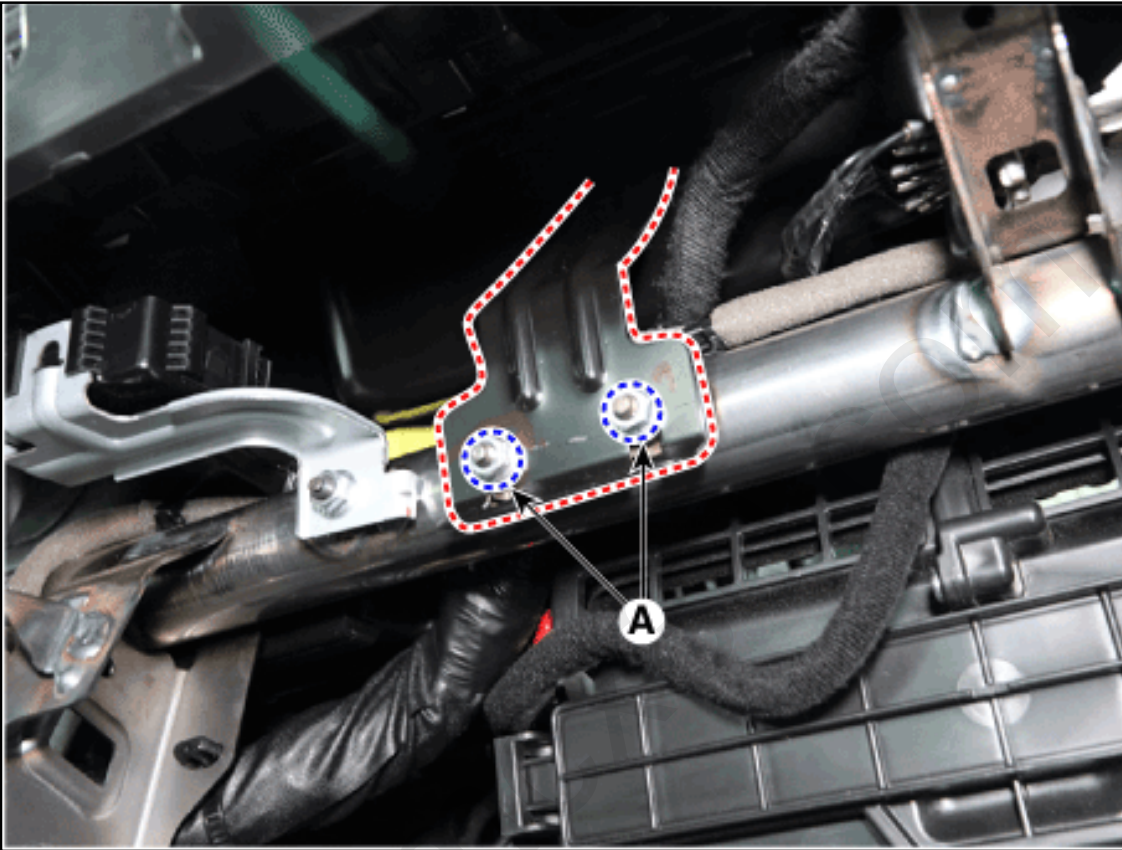
Removal

1. Set the front tires straight-ahead.
2. Disconnect the battery negative terminal.



- After disconnecting the cables, wait at least 3 minutes.

3. Remove the glove box.
(Refer to Body (Interior and Exterior) - "Glove Box")
4. Remove the passenger airbag mounting nuts (A).



5. Disconnect the passenger airbag connectors (A).

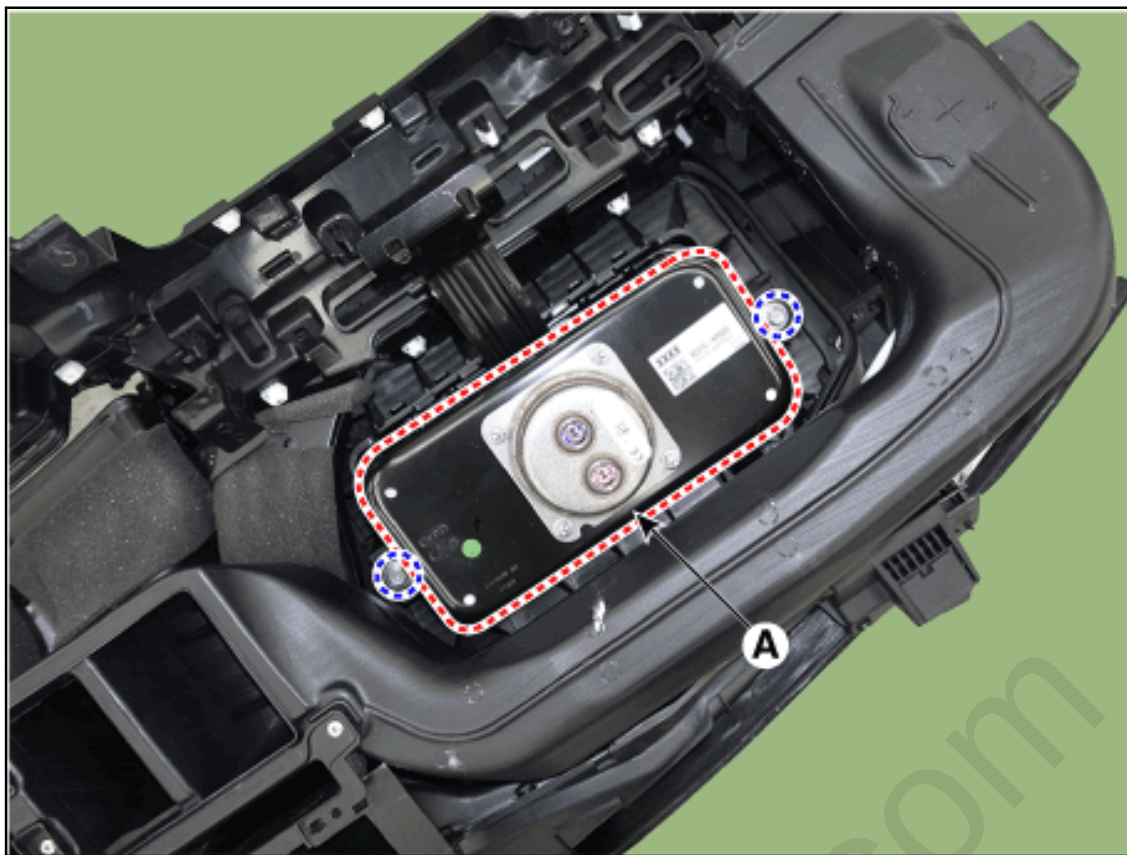


6. Remove the main crash pad assembly.
(Refer to Body - "Main Crash Pad Assembly")



- Replace the crash pad which is damaged while PAB is deployed.

7. Remove the passenger airbag (A) from the crash pad after loosening the mounting bolts.

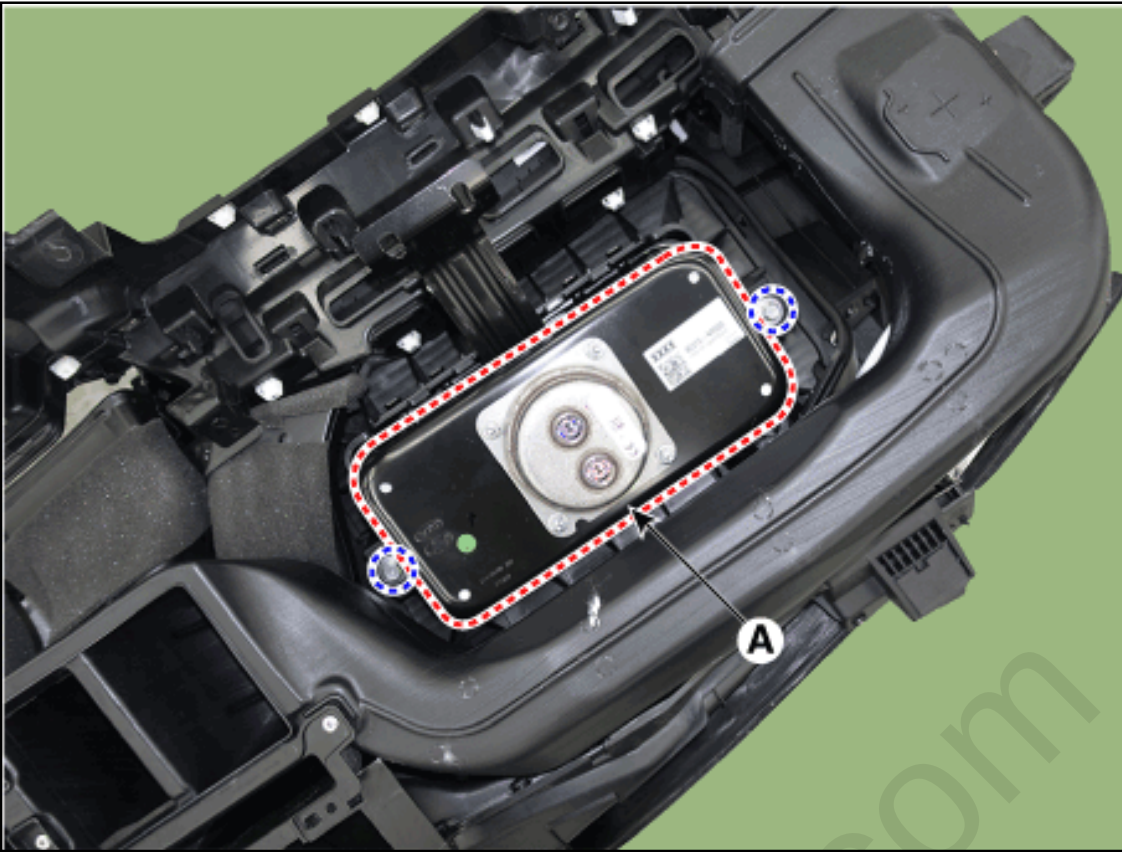


Installation

1. Disconnect the battery negative cable from battery and wait for at least three minutes before beginning work.
2. Place a passenger airbag on the crash pad and tighten the passenger airbag mounting bolts (A).

Tightening torque :

3.9 - 5.9 N.m (0.4 - 0.6 kgf.m, 2.9 - 4.4 lb-ft)



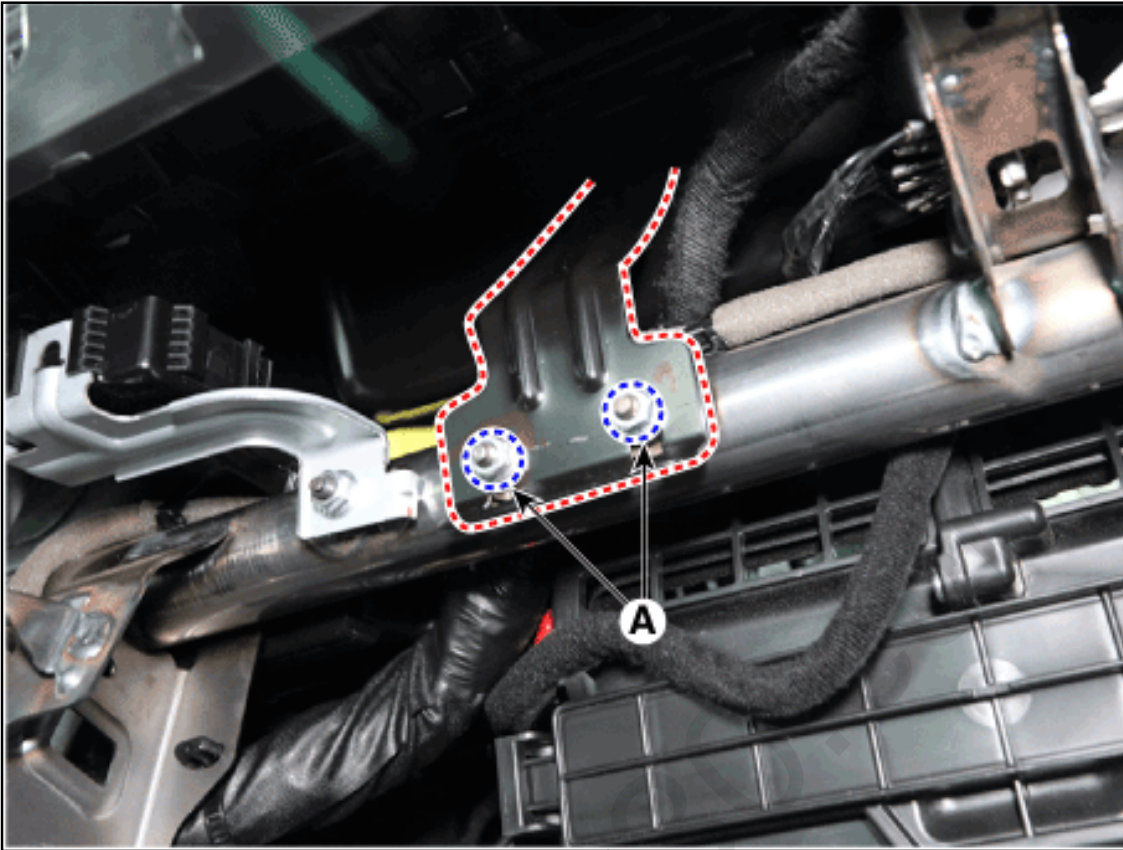
3. Install the main crash pad assembly.
(Refer to Body - "Main Crash Pad Assembly")
4. Connect the passenger airbag connectors (A).



5. Tighten the passenger airbag mounting nuts (A).

Tightening torque :

3.9 - 5.9 N.m (0.4 - 0.6 kgf.m, 2.9 - 4.4 lb-ft)



6. Install the glove box.
(Refer to Body (Interior and Exterior) - "Glove Box")
7. Reconnect the battery cable (-).
8. After installing the airbag module, confirm proper system operation.



- Switch ON the ignition. The SRS indicator light should turn on for about three-six seconds and then off.

Description

The Side Airbags (SAB) are installed inside the front seat and protects the driver and passenger from danger when side crash occurs. The SRSCM determines deployment of side airbag by using Side Impact Sensor (SIS) signal.



- Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

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Components
Location



1. Side airbag (SAB)

Removal

1. Disconnect the battery negative terminal.



- After disconnecting the cables, wait at least 3 minutes.

2. Remove the front seat back cover.
(Refer to Body - "Front Seat Back Cover")
3. Remove the side airbag (A) by loosening the nuts.

Tightening torque :

5.9 - 7.8 N.m (0.6 - 0.8 kgf.m, 4.3 - 5.8 lb-ft)



Installation

1. Install in the reverse order of removal.
2. After installing the airbag module, confirm proper system operation.



- Switch ON the ignition. The SRS indicator light should turn on for about three-six seconds and then off.

Description

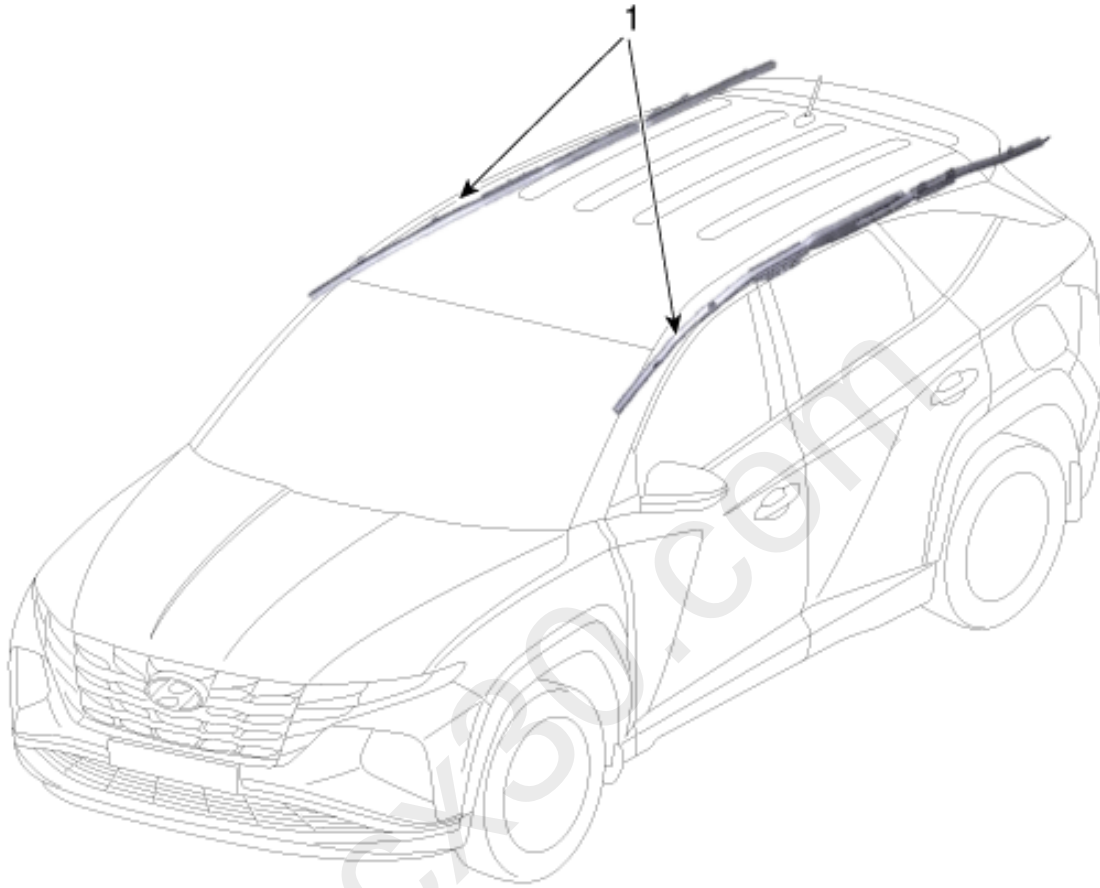
Curtain airbags are installed inside the headliner (LH and RH) and protect the the heads of the front seat occupants and the rear outboard seat occupants from danger when side crash occurs. The SRSCM determines deployment of curtain airbag by using side impact sensor (SIS) signal.



- Never attempt to measure the circuit resistance of the airbag module even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

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Components
Location



1. Curtain Air Bag (CAB)

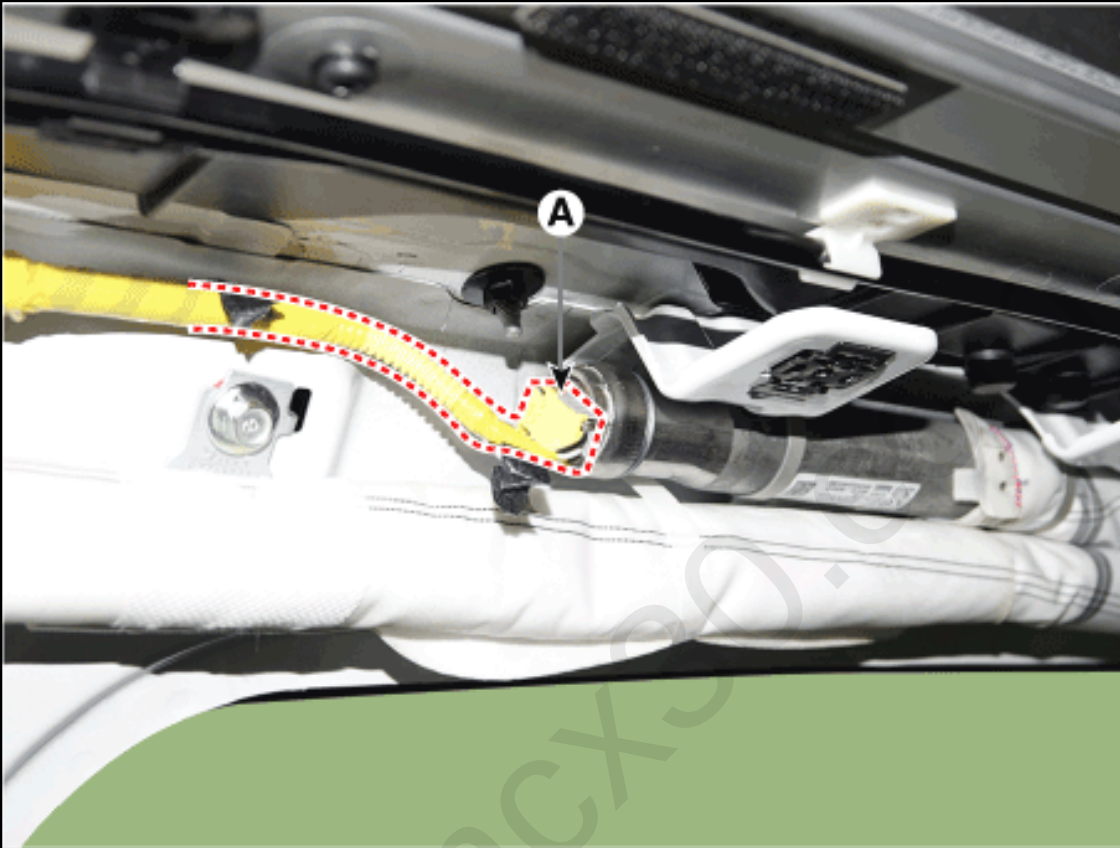
Removal

1. isconnect the battery negative terminal.



•After disconnecting the cables, wait at least 3 minutes.

2. Remove the roof trim.
(Refer to Body - "Roof Trim Assembly")
3. Disconnect the connector (A) from the curtain Airbag module.

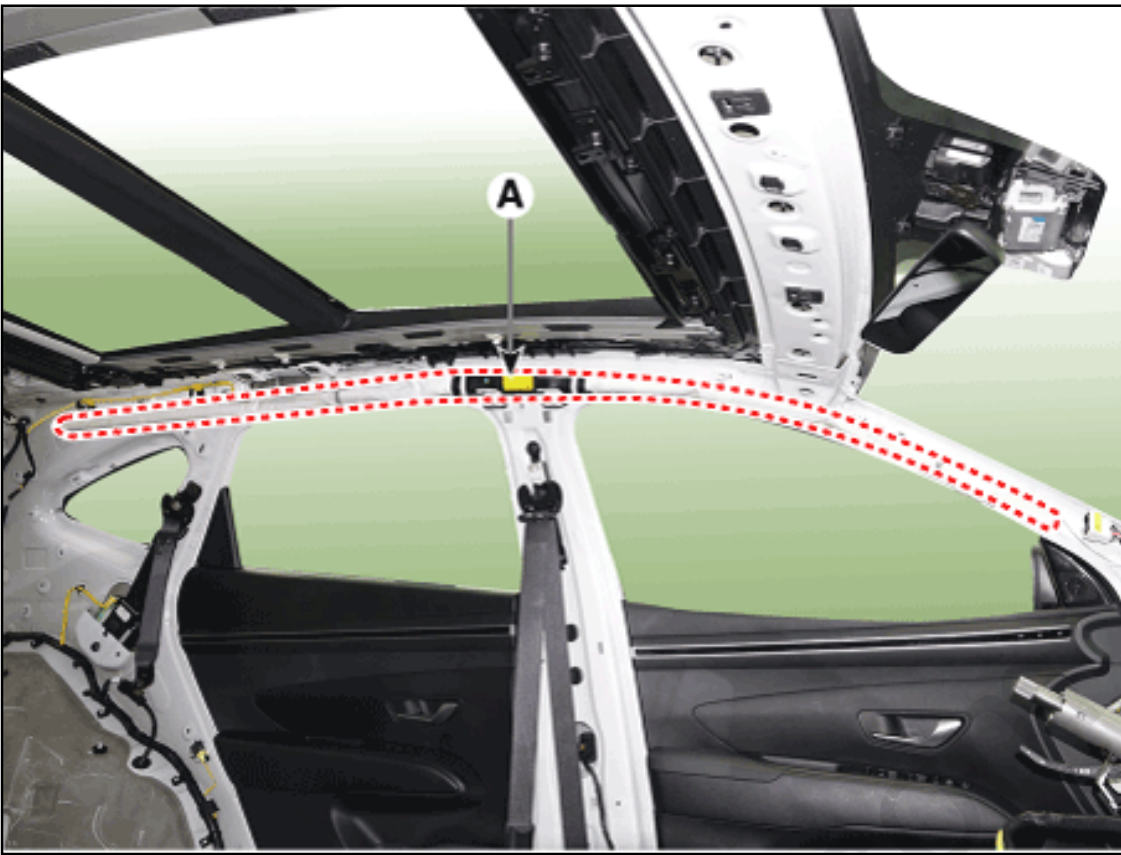


4. Remove the curtain airbag module (A) after loosening the bolt and nut.

Tightening torque :

Bolt : 7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb-ft)

Nut : 3.9 - 5.9 N.m (0.4 - 0.6 kgf.m, 2.9 - 4.4 lb-ft)



Installation

1. Install in the reverse order of removal.
2. After installing the airbag module, confirm proper system operation.



- Switch ON the ignition. The SRS indicator light should turn on for about three-six seconds and then off.

Components
Location



1.Center side airbag (CSAB)

Removal

1. Disconnect the battery negative terminal.



- After disconnecting the cables, wait at least 3 minutes.

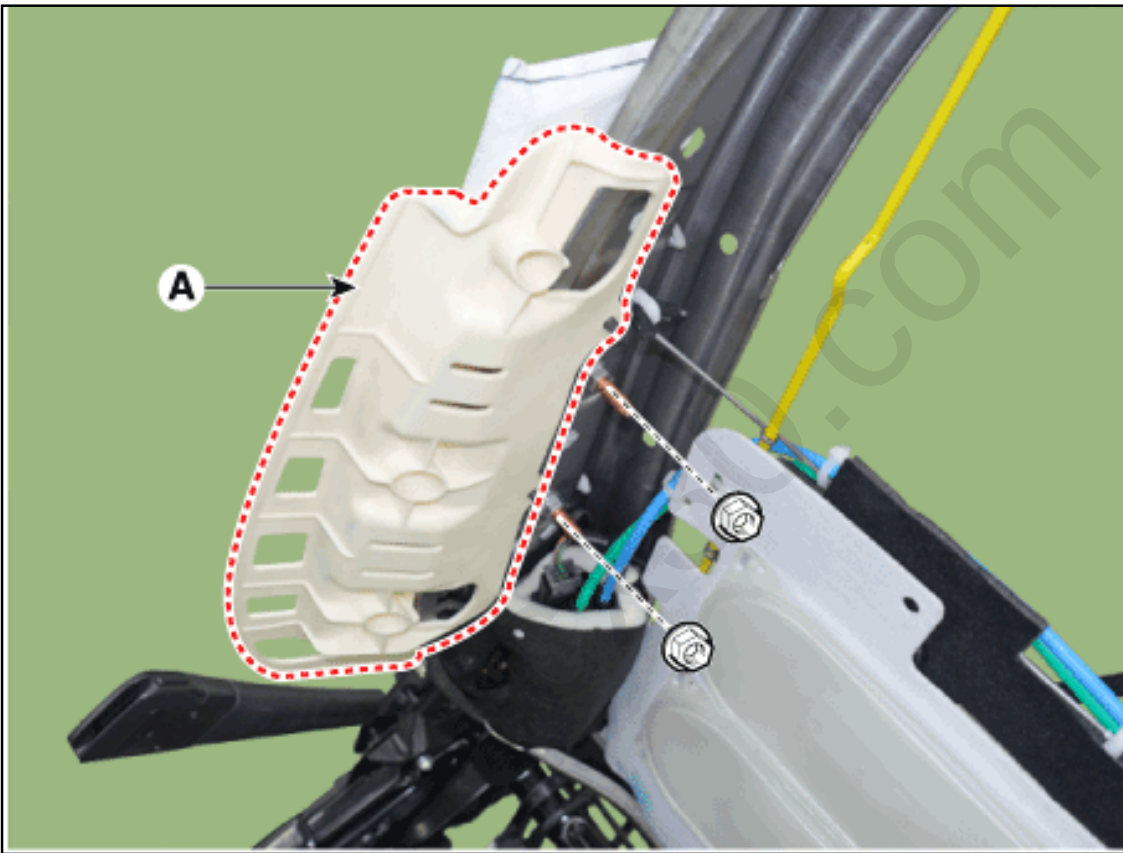
2. Remove the front seat back cover.

(Refer to Body - "Front Seat Back Cover")

3. Loosen the CSAB mounting nuts and remove the CSAB module (A).

Tightening torque :

5.9 - 7.8 N.m (0.6 - 0.8 kgf.m, 4.3 - 5.8 lb-ft)



Installation

1. Install in the reverse order of removal.
2. After installing the airbag module, confirm proper system operation.



- Switch ON the ignition. The SRS indicator light should turn on for about three-six seconds and then off.

Airbag Disposal

When you scrap a vehicle equipped with an airbag, you must deploy it first.

When you deploy an airbag, you need to have a skilled mechanic do the work. The used airbag should not be reinstalled in another vehicle for reuse.



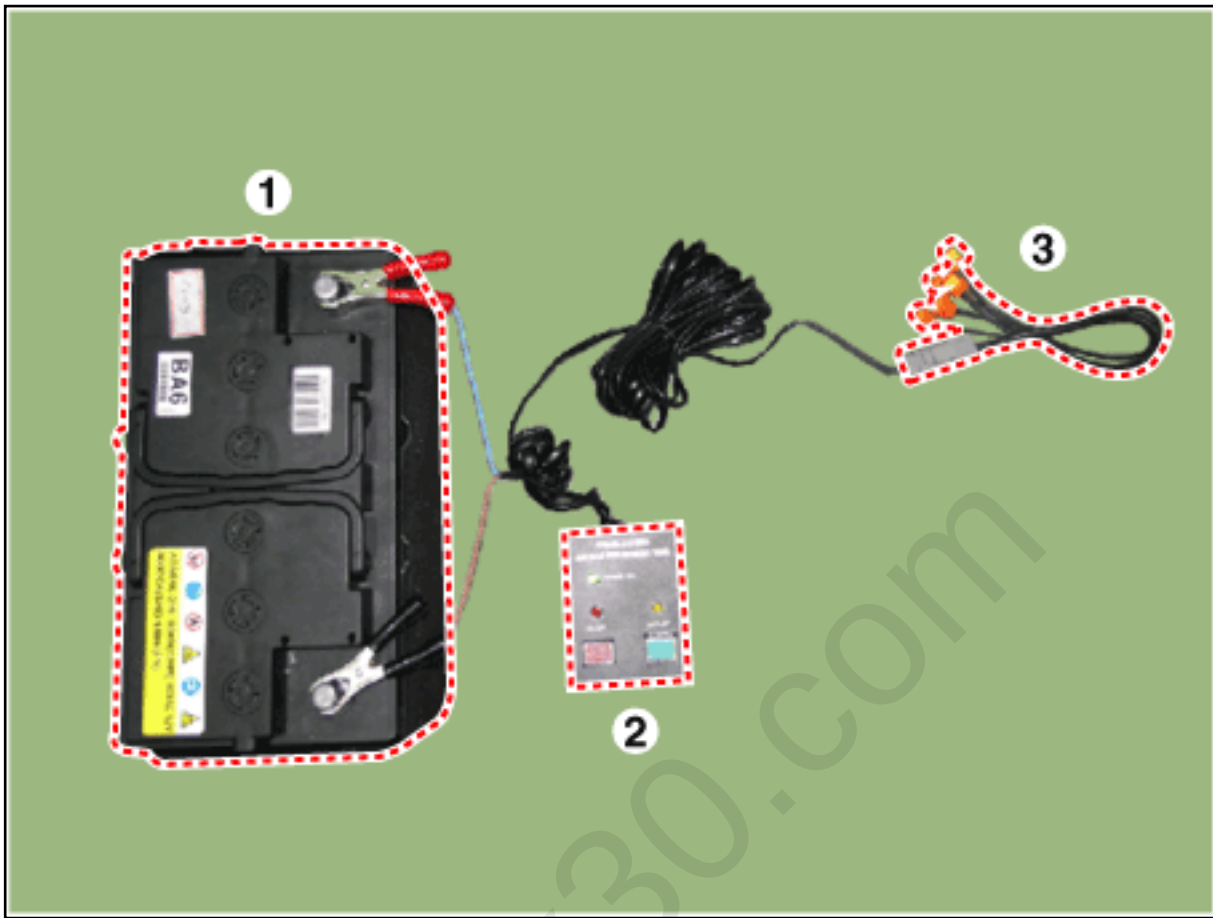
- Upon deployment, the explosion will create a loud noise, so you have to do it in a proper place not to disturb others.
- When you deploy an airbag, use a specially designated tool and select a place where there is no electric noise.
- When operating the airbag deployment tool, you must be at least 5 meters away from the airbag.
- Upon deployment, the airbag gives off an intense heat. So wait for 30 minutes or so before touching it.
- Make sure to use gloves and safety goggles when you deal with the deployed airbag.
- Do not spread water over the deployed airbag.
- Always wash your hands after the deployment work is completed.

Deploying Airbags in the Vehicle

1. Turn the ignition switch OFF, and disconnect the battery negative cable and wait at least three minutes.
2. Confirm that each airbag or side airbag is securely mounted.
3. Confirm that the special tool is functioning properly by following the check procedure.
 - (1) Disconnect the 2P connector between the airbag and wire harness.
 - (2) Install the SST
 - For the driver airbag, separate the 2-pin connector from it and connect the deployment adapter to reattach it on the steering wheel.
4. Locate the airbag deployment tool at a place at least 5 meters away from the airbag.
5. After connecting the deployment adapter with the deployment tool (0957A-34100A), connect it to the external battery for deployment.
 - (1) Battery (12V)
 - (2) Deployment tool (0957A-34100A)

(3) Deployment adapter

- DAB, PAB, CAB, BPT, KAB (0957A-AL140)
- RSAB (0957A-AL160)



6. Switch on the deployment tool to proceed with deployment.

(1) If the battery is connected, the POWER ON(1) light will be on.

(2) Press and hold READY (2) until it is on, and then press DEPLOY (3) to deploy the airbag.



- Upon deployment, the airbag will create a loud noise and you can see it suddenly expand and contract slowly.

7. Dispose of the complete airbag. No parts can be reused. Place it in a sturdy plastic bag and seal it securely.



Deploying the Airbag Out of the Vehicle

In case the airbag is separated from a scrapped car, or when you find defects or damages on it, you have to deploy it as follows :

1. Place the airbag deployment module face upward on a flat surface outdoor.



- If the airbag deployment module were face downward, the airbag will pop up and cause damage to people around it.

2. Get ready to deploy the airbag as follows :

- (1) Separate the 2-pin connector of the airbag from the vehicle.
- (2) Connect the deployment adapter.

- For the driver airbag, separate the 2-pin connector from it and connect the deployment adapter to reattach it on the steering wheel.

3. Locate the airbag deployment tool at a place at least 5 meters away from the airbag.

4. After connecting the deployment adapter (0957A-AL140, 0957A-AL150, 0957A-3T200) with the deployment tool (0957A-34100A), connect it to the external battery (12V) for deployment.

(1) Battery (12V)

(2) Airbag Deploy (0957A-34100A)

(3) Deployment adapter

–DAB, PAB, CAB, BPT, KAB (0957A-AL140)

–RSAB (0957A-AL160)



- When EFD are deployed, broken parts are exploded and scattered.
- EFD (Emergency Fastening Device) must be placed in the piled up 5 tires to avoid exploded broken parts.
- Technicians should wear an eye protector and extremely be cautions of exploded broken parts.

5. Switch on the deployment tool to proceed with deployment.
- (1) If the battery is connected, the POWER ON (1) light will be on.
 - (2) Press and hold READY (2) until it is on, and then press DEPLOY (3) to deploy the airbag.



6. Dispose of the complete airbag. No parts can be reused. Place it in a sturdy plastic bag and seal it securely.



Disposal of Damaged Airbag (Not Deployed Airbag)

1. Turn the ignition switch OFF, and disconnect the battery negative cable and wait at least three minutes.
2. If installed airbags in a vehicle, follow the removal procedure of damaged airbag.
3. If the removed parts have a lead wire, make a short circuit by twisting together the two airbag inflator wires.
4. Package the airbag in exactly the same packing that the new replacement part come in.
5. Mark the outside of the box "DAMAGED AIRBAG NOT DEPLOYED" so it does not get confused with your parts stock.