

**GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Restraint > Airbag Module > Driver Airbag (DAB)
Module and Clock Spring > Description and Operation**

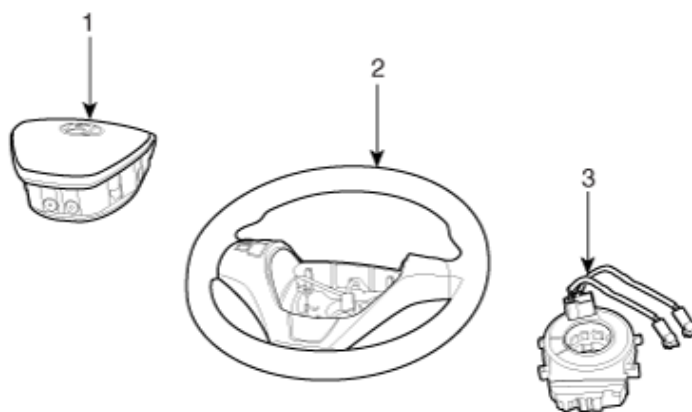
Description

Driver Airbag (DAB) is installed in steering wheel and electrically connected to SRSCM via clock spring. It protects the driver from danger by deploying a bag when frontal crash occurs. The SRSCM determines deployment of Driver Airbag (DAB).

CAUTION

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.

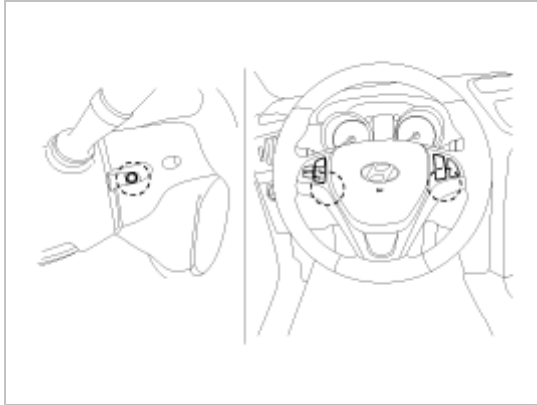
Components



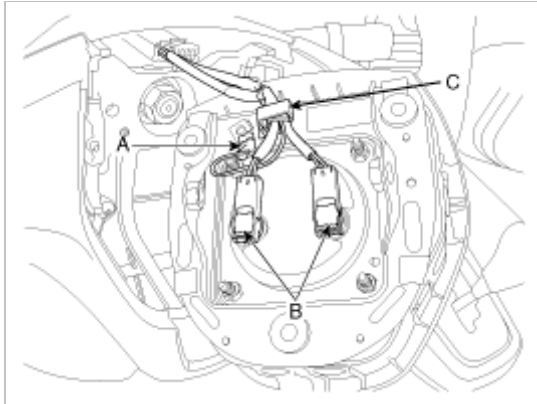
1. Driver Airbag (DAB)
2. Steering Wheel
3. Clock Spring

Removal

1. Disconnect the battery negative cable and wait for at least three minutes before beginning work.
2. Remove the airbag module mounting bolts(2EA).



3. Disconnect the horn connector(A).

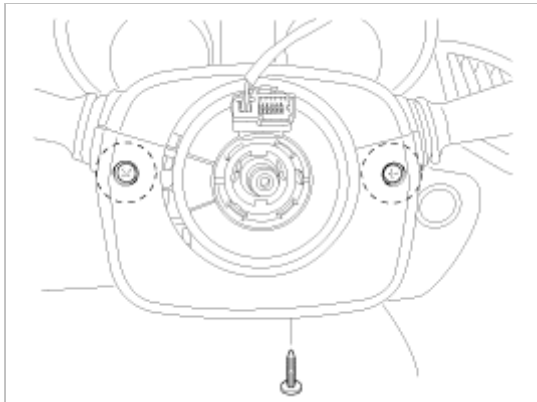


4. Remove the wiring fixing clip(C) and disconnect airbag module connector (B).
5. Separate the airbag module from the steering wheel.

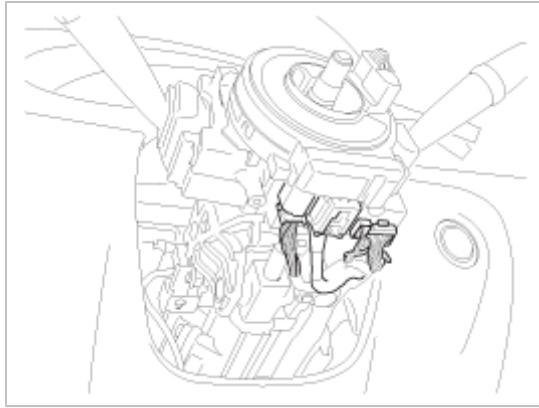
CAUTION

The removed airbag module should be stored in a clean, dry place with the pad cover face up.

6. Remove the steering wheel and steering wheel column cover. (Refer to the Steering System group- Steering Column and Shaft)



7. Disconnect the clock spring and horn connector, then remove the clock spring.



Inspection

Driver Airbag (DAB)

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

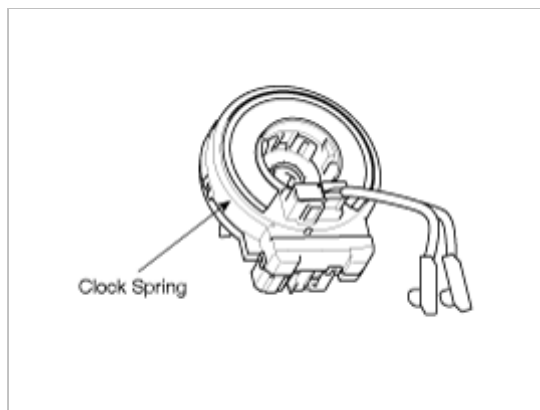
CAUTION

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.

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.
5. Install the airbag module to the steering wheel to check for fit or alignment with the wheel.

Clock Spring

1. If, as a result of the following checks, even one abnormal point is discovered, replace the clock spring with a new one.
2. Check connectors and protective tube for damage, and terminals for deformities.



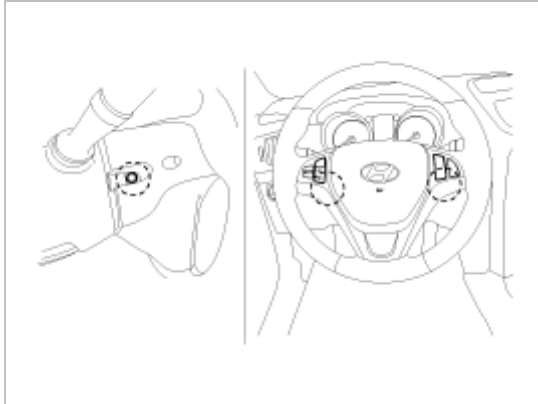
Installation

1. Remove the ignition key from the vehicle.
2. Disconnect the battery negative cable from battery and wait for at least three minutes before beginning work.
3. Connect the clock spring harness connector and horn harness connector to the clock spring.
4. Set the center position by getting marks between the clock spring and the cover into line. Make an array the mark (►◄) by turning the clock spring clockwise to the stop and then 3 revolutions counterclockwise.

5. Install the steering wheel column cover and the steering wheel. (Refer to the Steering System group- Steering Column and Shaft)
6. Connect the Driver Airbag (DAB) module connector and horn connector, and then install the Driver Airbag (DAB) module on the steering wheel.
7. Secure the Driver Airbag (DAB) with the new mounting bolts.

Tightening torque

: 7.8 ~ 10.8 Nm (0.8 ~ 1.1 kgf.m, 5.8 ~ 8.0 lb.ft)



8. Connect the battery negative cable.
9. After installing the airbag, confirm proper system operation:
 - A. Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.
 - B. Make sure horn button works.

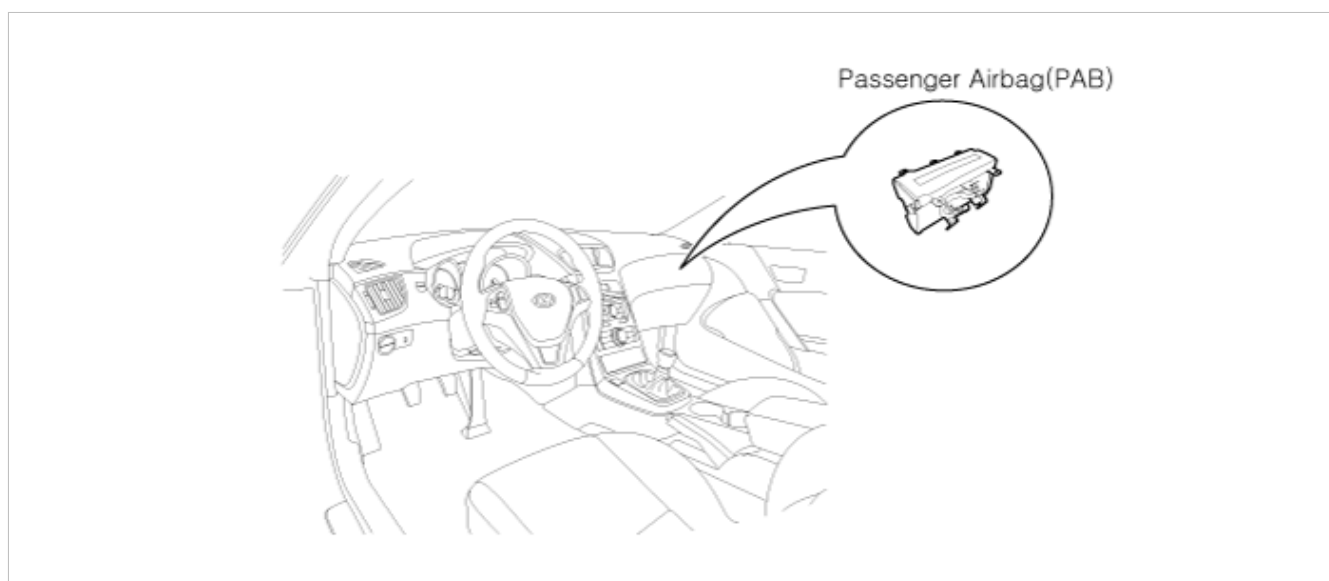
Description

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.

CAUTION

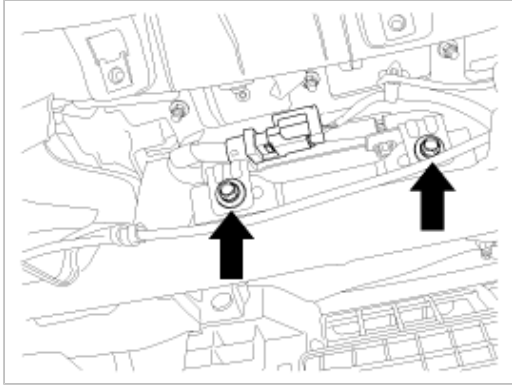
Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

Components



Removal

1. Disconnect the battery negative cable and wait for at least three minutes before beginning work.
2. Remove the glove box assembly. (Refer to the Body group- crash pad).
3. Disconnect the PAB connector and remove the PAB mounting bolt.



4. Remove the crash pad. (Refer to the Body group- crash pad).

NOTE

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

5. Remove the heater duct from the crash pad.
6. Remove the mounting nuts(6EA) from the crash pad. Then remove the passenger airbag.

CAUTION

The removed airbag module should be stored in a clean, dry place with the airbag cushion up.

Installation

1. Remove the ignition key from the vehicle.
2. Disconnect the battery negative cable from battery and wait for at least three minutes before beginning work.
3. Place a Passenger Airbag (PAB) on the crash pad and tighten the Passenger Airbag (PAB) mounting nuts.

Tightening torque

: 3.9 ~ 6.9 Nm (0.4 ~ 0.7 kgf.m, 2.9 ~ 5.0 lb.ft)

4. Install the heater duct to the crash pad.
5. Install the crash pad. (Refer to the Body group- crash pad)
6. Tighten the PAB mounting bolt.

Tightening torque

: 6.9 ~ 10.8 Nm (0.7 ~ 1.1 kgf.m, 5.1 ~ 8.0 lb.ft)

7. Connect the Passenger Airbag (PAB) harness connector to the SRS main harness connector.
8. Reinstall the glove box assembly. (Refer to the Body group- crash pad)
9. Reconnect the battery negative cable.
10. After installing the Passenger Airbag (PAB), confirm proper system operation:
 - A. Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

**GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Restraint > Airbag Module > Side Airbag (SAB)
Module > Description and Operation**

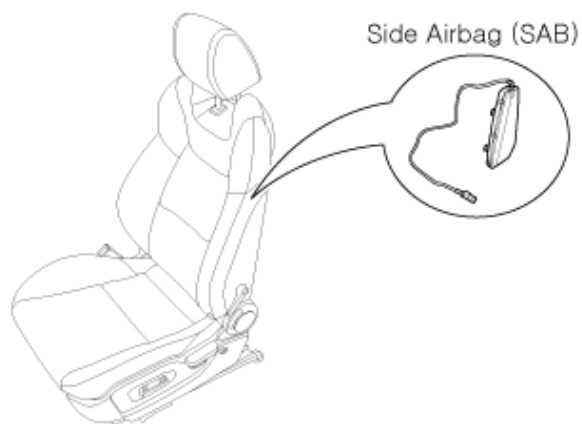
Description

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

CAUTION

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.

Components



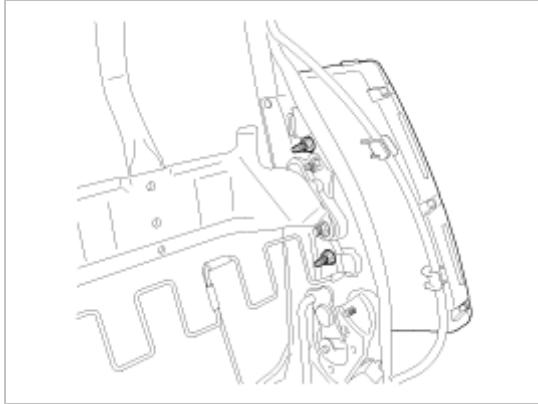
Removal

1. Disconnect the battery negative cable and wait for at least 3 minutes before beginning work.
2. Remove the front seat assembly. (Refer to the Body group- Seat)
3. Remove the seat back cover. (Refer to the Body group- Seat)

NOTE

When the front side airbag deployed after a collision, replace the seat back as an assembly.

4. Loosen the SAB mounting nuts and remove the SAB module.



WARNING

The removed airbag module should be stored in a clean and dry place with the cushion side up.

Installation

CAUTION

Be sure to install the harness wires not to be pinched or interfered with other parts.

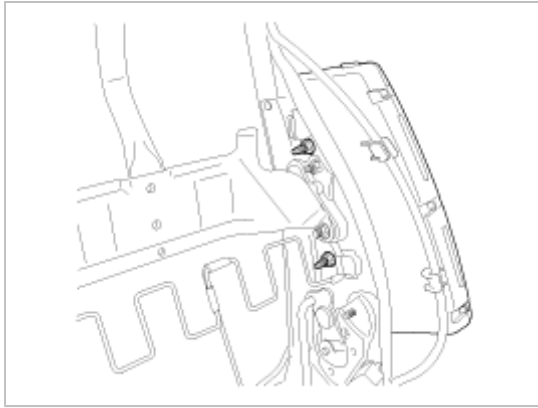
NOTE

- Do not open the lid of the side airbag cover.
- Use a new mounting nuts when you replace a side airbag.
- Make sure that the airbag assembly cover is installed properly. Improper installation may prevent the proper deployment.

1. Remove the ignition key from the vehicle.
2. Disconnect the battery negative cable and wait for at least three minutes.
3. Place a Side Airbag (SAB) on the side airbag frame and tighten the side airbag mounting nuts (2EA).

Tightening torque

: 5.9 ~ 7.8 Nm (0.6 ~ 0.8 kgf.m , 4.3 ~ 5.8 lb.ft)



4. Install the new seat back cover. (Refer to the Body group- Seat)
5. Install the front seat assembly, and then connect the Side Airbag (SAB) harness connector.
6. Recline and slide the front seat forward fully, make sure the harness wires are not pinched or interfering with other parts.
7. Reconnect the battery negative cable.
8. After installing the Side Airbag (SAB), confirm proper system operation:
 - A. Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

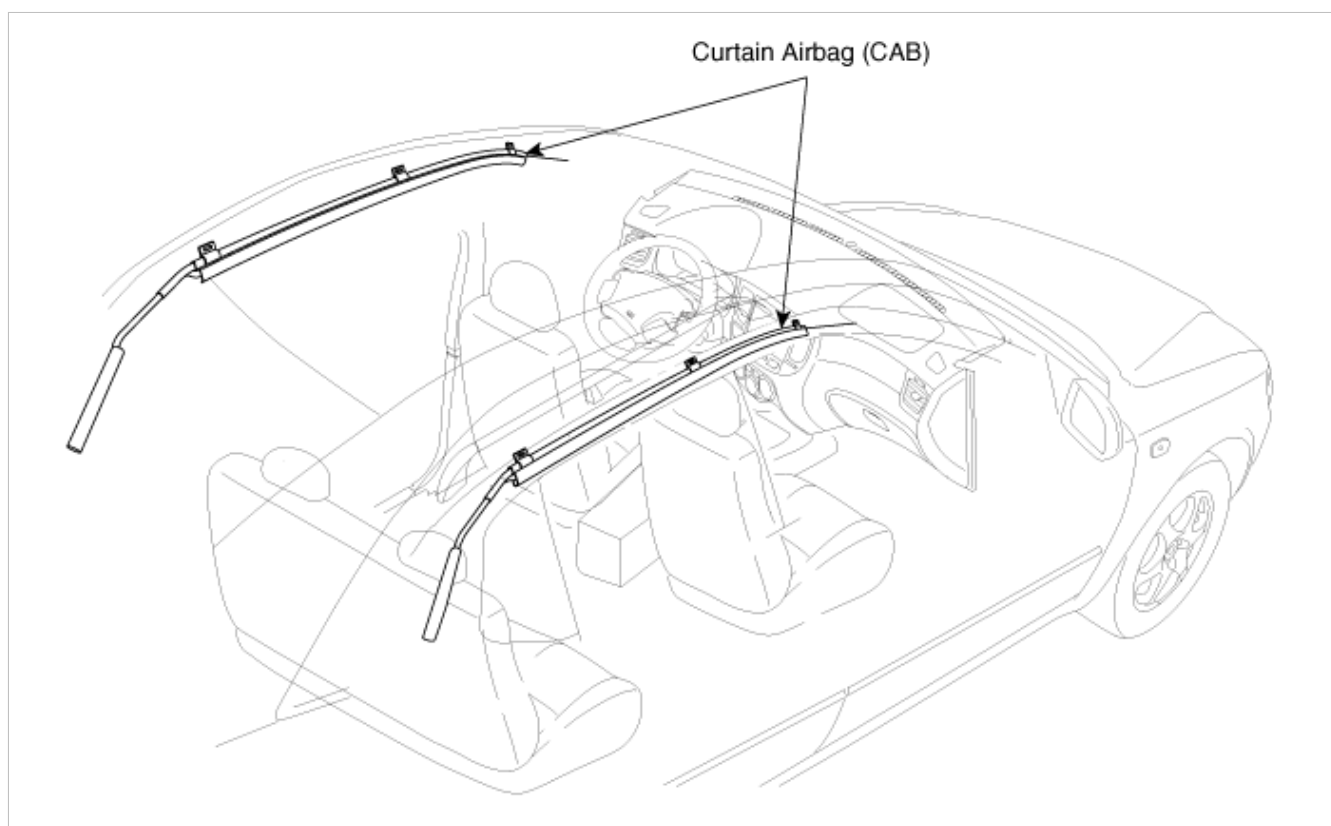
Description

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

CAUTION

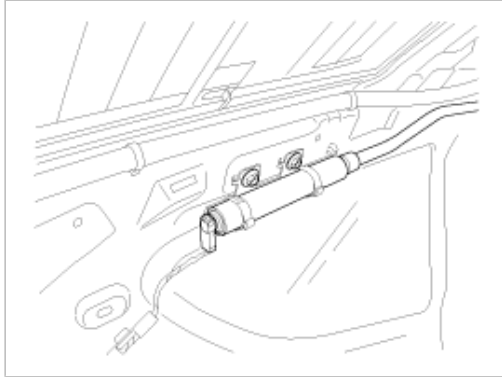
Never attempt to measure the circuit resistance of the airbag module even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

Components

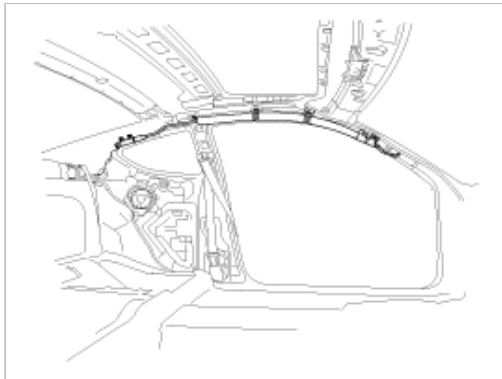


Removal

1. Disconnect the battery negative cable and wait for at least 3 minutes before beginning work.
2. Remove the following parts. (Refer to the Body group- Interior trim)
 - A. Front pillar trim, Rear seat assembly, Door scuff trim
 - B. Rear pillar trim, Headliner, luggage side trim
3. Disconnect the Curtain Airbag harness connector.



4. After loosening the mounting bolts and nuts remove the curtain airbag.



Installation

1. Remove the ignition key from the vehicle.
2. Disconnect the battery negative cable and wait for at least three minutes.
3. Tighten the Curtain Airbag (CAB) mounting bolts.

Tightening torque

: 18.6 ~ 26.5 Nm (1.9 ~ 2.7 kgf.m, 13.7 ~ 19.5 lb.ft)

CAUTION

- Never twist the airbag module when installing it. If the module is twisted, airbag module may operate abnormally.

4. Connect the CAB connector.
5. Install the following parts. (Refer to the Body group- Interior trim)
 - A. Headliner, Front pillar trim, Rear seat assembly
 - B. Door scuff trim, luggage side trim, Rear pillar trim
6. Reconnect the battery negative cable.
7. After installing the Curtain Airbag (CAB), confirm proper system operation:
 - A. Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

Airbag Disposal

Special tool required

Deployment tool 0957A-34100A

Before scrapping any airbags or side airbags (including those in a whole vehicle to be scrapped), the airbags or side airbags must be deployed. If the vehicle is still within the warranty period, before deploying the airbags or side airbags, the Technical Manager must give approval and/or special instruction. Only after the airbags or side airbags have been deployed (as the result of vehicle collision, for example), can they be scrapped. If the airbags or side airbags appear intact (not deployed), treat them with extreme caution. Follow this procedure.

Deploying airbags in the vehicle

If an SRS equipped vehicle is to be entirely scrapped, its airbags or side airbags should be deployed while still in the vehicle. The airbags or side airbags should not be considered as salvageable parts and should never be installed in another 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) Driver's Airbag :
 - A. Remove the driver's airbag and install the SST (0957A-38500).
 - B. Install the driver's airbag on the steering wheel.
 - (2) Front Passenger's Airbag :
 - A. Remove the glove box, and then disconnect the 2P connector between the front passenger's airbag and SRS main harness.
 - B. Install the SST(0957A-3F100).
 - (3) Side Airbag :
 - A. Disconnect the 2P connector between the side airbag and side wire harness.
 - B. Install the SST (0957A-3F100).
 - (4) Curtain Airbag :
 - A. Disconnect the 2P connector between the curtain airbag and wire harness.
 - B. Install the SST (0957A-38500).
 - (5) Seat Belt Pretensioner :
 - A. Disconnect the 2P connector from the seat belt pretensioner.
 - B. Install the SST (0957A-38500).
4. Place the deployment tool at least thirty feet (10meters) away from the airbag.
5. Connect a 12 volt battery to the tool.
6. Push the tool's deployment switch. The airbag should deploy (deployment is both highly audible and visible: a loud noise and rapid inflation of the bag, followed by slow deflection)
7. Dispose of the complete airbag. No part of it can be reused. Place it in a sturdy plastic bag and seal it securely.

Deploying the airbag out of the vehicle

If an intact airbag has been removed from a scrapped vehicle, or has been found defective or damaged during transit, storage or service, it should be deployed as follows:

1. Confirm that the special tool is functioning properly by following the check procedure on this page.
2. Position the airbag face up, outdoors on flat ground at least thirty feet (10meters) from any obstacles or people.

Disposal Of Damaged Airbag

1. If installed in a vehicle, follow the removal procedure of driver's airbag front passenger's and side airbag.
2. In all cases, make a short circuit by twisting together the two airbag inflator wires.
3. Package the airbag in exactly the same packing that the new replacement part came in.