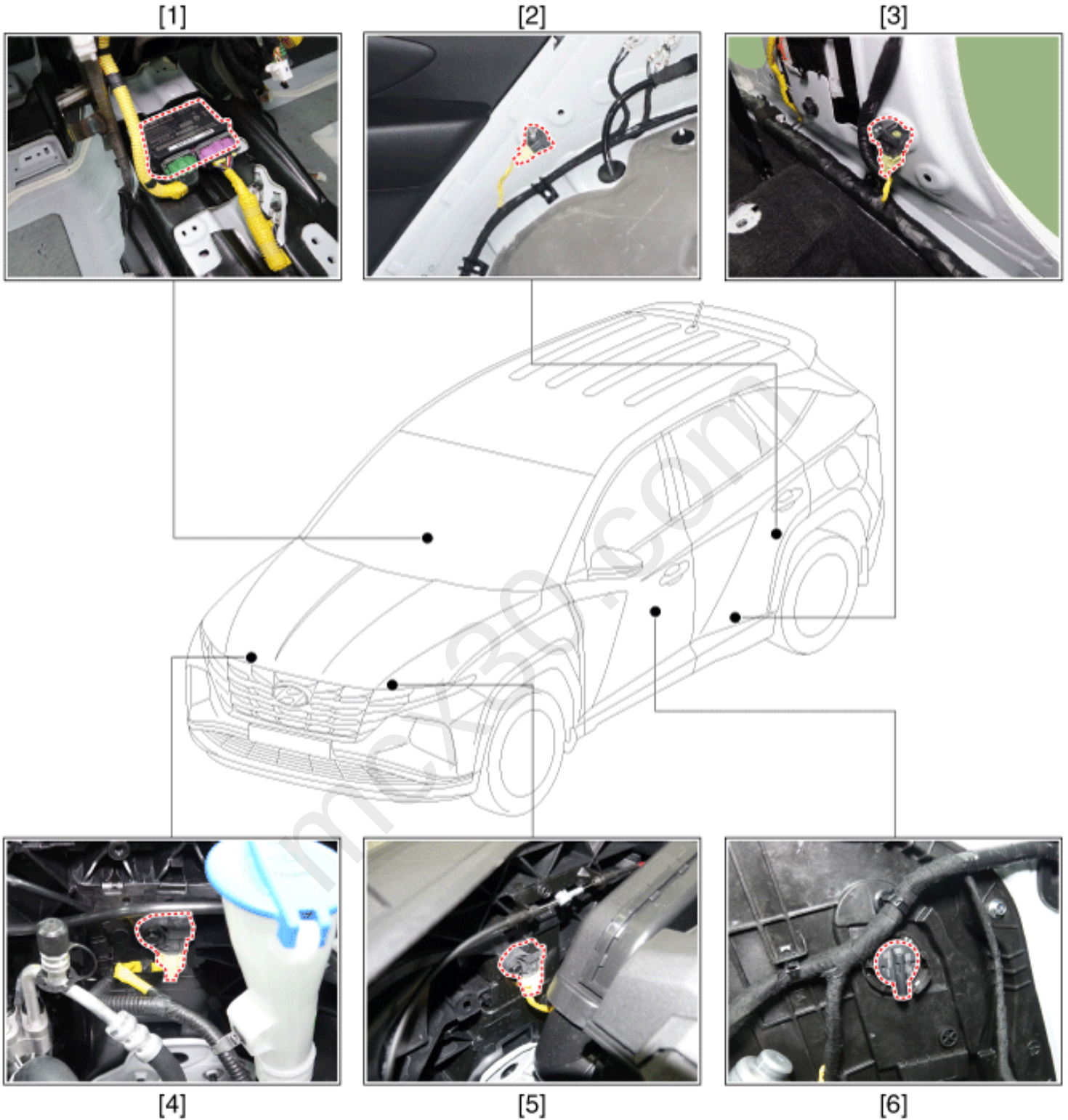


Components
Location



- | | |
|---|--|
| 1. Supplemental Restraint System Control Module (SRSCM) | 4. Front Impact Sensor (FIS) [RH] |
| 2. Gravity Side Impact Sensor (G-SIS) _ C pillar | 5. Front Impact Sensor (FIS) [LH] |
| 3. Gravity Side Impact Sensor (G-SIS) _ B pillar | 6. Pressure Side Impact Sensor (P-SIS) |

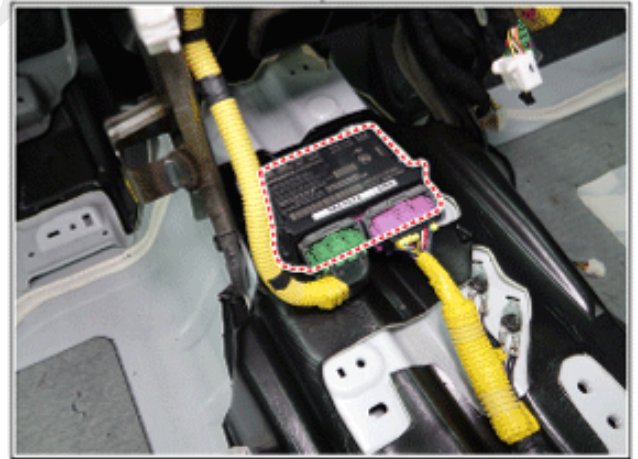
Description

The primary purpose of the SRSCM (Supplemental Restraints System Control Module) is to discriminate between an event that warrants restraint system deployment and an event that does not. The SRSCM must decide whether to deploy the restraint system or not. After determining that pretensioners and/or airbag deployment is required, the SRSCM must supply sufficient power to the pretensioners and airbag igniters to initiate deployment. The SRSCM determines that an impact may require deployment of the pretensioners and airbags from data obtained from impact sensors and other components in conjunction with a safing function.

The SRSCM will not be ready to detect a crash or to activate the restraint system devices until the signals in the SRSCM circuitry is stabilized. It is possible that the SRSCM could activate the safety restraint devices in approximately 2 seconds but is guaranteed to fully function after prove-out is completed.

The SRSCM must perform a diagnostic routine and light a system readiness indicator when the ignition switch is in the ON position. The system must perform a continuous diagnostic routine and provide fault notice through a warning lamp indicator in the event of fault detection. A serial diagnostic communication interface will be used to facilitate servicing of the restraint control system.

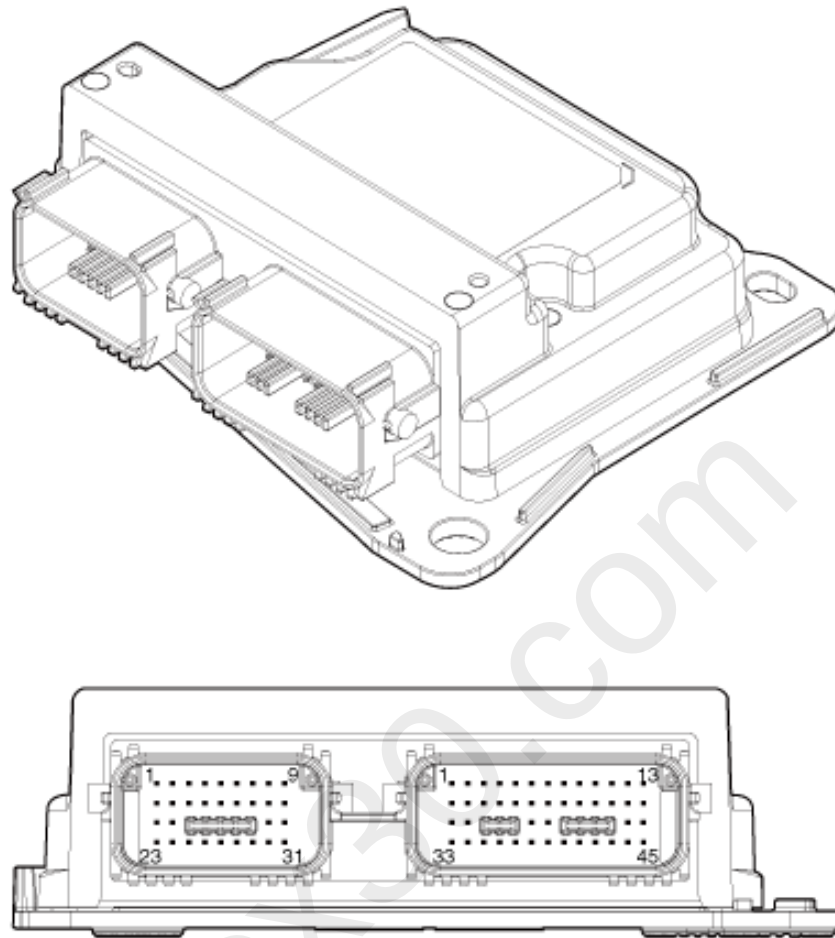
Components
Location



[1]

1. Supplemental Restraint System Control Module (SRSCM)

Supplemental Restraint System Control Module
(SRSCM)



No	Connector A	Connector B
1	Driver airbag #2 (High)	Rear driver seat belt pretensioner (High)
2	Driver airbag #2 (Low)	-
3	Passenger airbag #2 (Low)	-
4	Passenger airbag #2 (High)	-
5	Passenger airbag #3 (High)	-
6	Passenger airbag #3 (Low)	-
7	Passenger airbag active vent (Low)	-
8	Passenger airbag active vent (High)	Driver curtain airbag (High)
9	Driver airbag tether (High)	Driver curtain airbag (Low)
10	B+	Passenger curtain airbag (High)
11	Crash output	Passenger curtain airbag (Low)

12	Passenger airbag #1 (Low)	-
13	Passenger airbag #1 (High)	-
14	-	Rear driver seat belt pretensioner (Low)
15	-	-
16	Passenger airbag OFF Lamp (Telltale)	-
17	Passenger airbag on lamp	Front center side airbag (Low)
18	-	Front center side airbag (High)
19	Driver airbag #1 (High)	-
20	Driver airbag #1 (Low)	-
21	-	Front passenger side airbag (Low)
22	-	Front passenger side airbag (High)
23	-	Front driver side airbag (High)
24	-	Front driver side airbag (Low)
25	-	-
26	C-CAN (Low)	-
27	C-CAN (High)	Front driver retractor pretensioner (Low)
28	IGN 1	Front driver retractor pretensioner (High)
29	Driver front impact sensor (High)	-
30	Driver front impact sensor (Low)	-
31	Passenger front impact sensor (Low)	-
32	Passenger front impact sensor (High)	Front passenger retractor pretensioner (High)
33	Passenger airbag on / off switch (High)	Front passenger retractor pretensioner (Low)
34	Passenger airbag on / off switch (Low)	-
35	-	-
36	-	-
37		-
38		Rear passenger retractor pretensioner (Low)
39		Rear passenger retractor pretensioner (High)
40		Ground
41		Rear driver impact sensor (Low)
42		Rear driver impact sensor (High)
43		Driver pressure side impact sensor (High)
44		Driver pressure side impact sensor (Low)
45		Passenger pressure side impact sensor (Low)
46		Passenger pressure side impact sensor (High)

47	Front driver side impact sensor (High)
48	Front driver side impact sensor (Low)
49	Front passenger side impact sensor (Low)
50	Front passenger side impact sensor (High)
51	Rear passenger side impact sensor (High)
52	Rear passenger side impact sensor (Low)

Removal

1. Disconnect the battery negative terminal.



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

2. Remove the floor console assembly.
(Refer to Body - "Floor Console Assembly")
3. Remove the rear air duct (A) by removing the mounting bolt.



4. Pull up the lock of the SRSCM connector to disconnect the connectors (A).

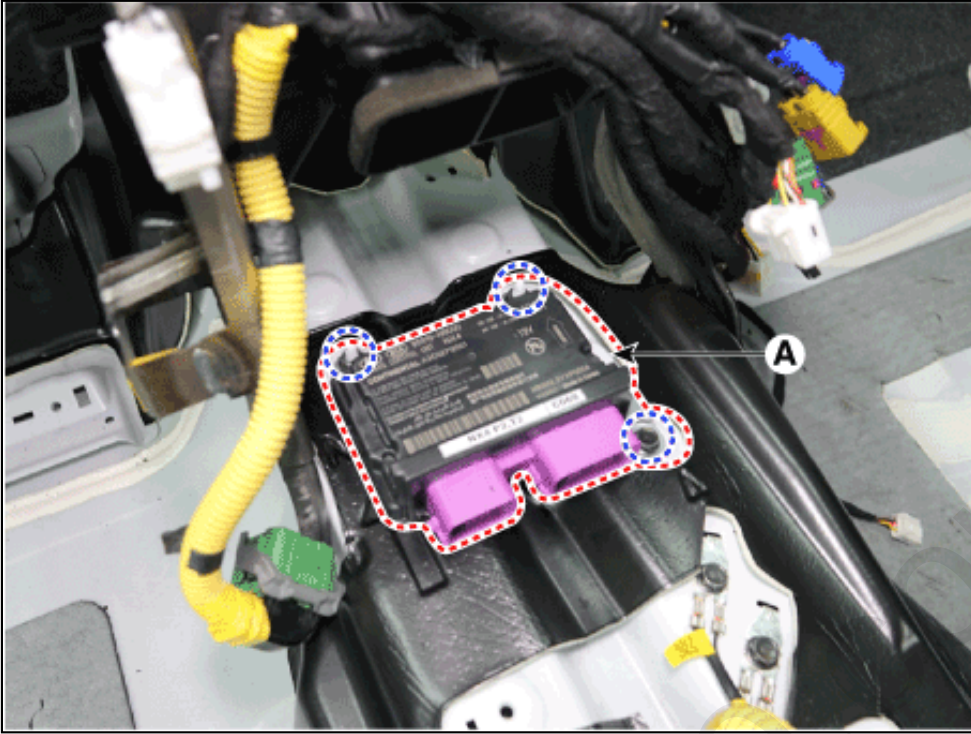


5. Remove the SRSCM mounting bolt and nuts, remove the SRSCM (A).

Tightening torque :

Bolt : 10.8 - 13.7 N·m (1.1 - 1.4 kgf·m, 7.9 - 10.1 lbf·ft)

Nut : 7.8 - 9.8 N·m (0.8 - 1.0 kgf·m, 5.8 - 7.2 lb·ft)

**Installation**

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



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

**Variant
Coding**

1. Connect the cable of self-diagnosis to the data link connector in driver side crash pad lower panel, and turn on the self-diagnosis.
2. Select "Airbag" and "ACU Variant Coding".



■ Engine Control	
■ Automatic Transaxle	
■ Brake	
■ Airbag(Event #1)	
■ System Identification	
■ ACU Variant Coding	
■ Airbag(Event #2)	
■ Air Conditioner	
■ Motor Driven Power Steering	
■ Amplifier	
■ Audio Video Navigation	
■ Cluster Module	
■ IBU-BCM	
■ IBU-IMMO	
■ IBU-SMK(ESCL)	
■ IBU-SMK(Non ESCL)	



Do not touch any system buttons while performing this function.

3. Perform the "ACU/SRSCM Variant Coding" procedure according to the self-diagnosis screen message.

S/W Management

■ ACU Variant Coding

● [Variant Coding]

This function is to alter the setting of ECU according to it's specification when an ACU/SRSCM is replaced.

● [Condition]

1. IG.ON

Press **OK** button to continue.

OK

Cancel



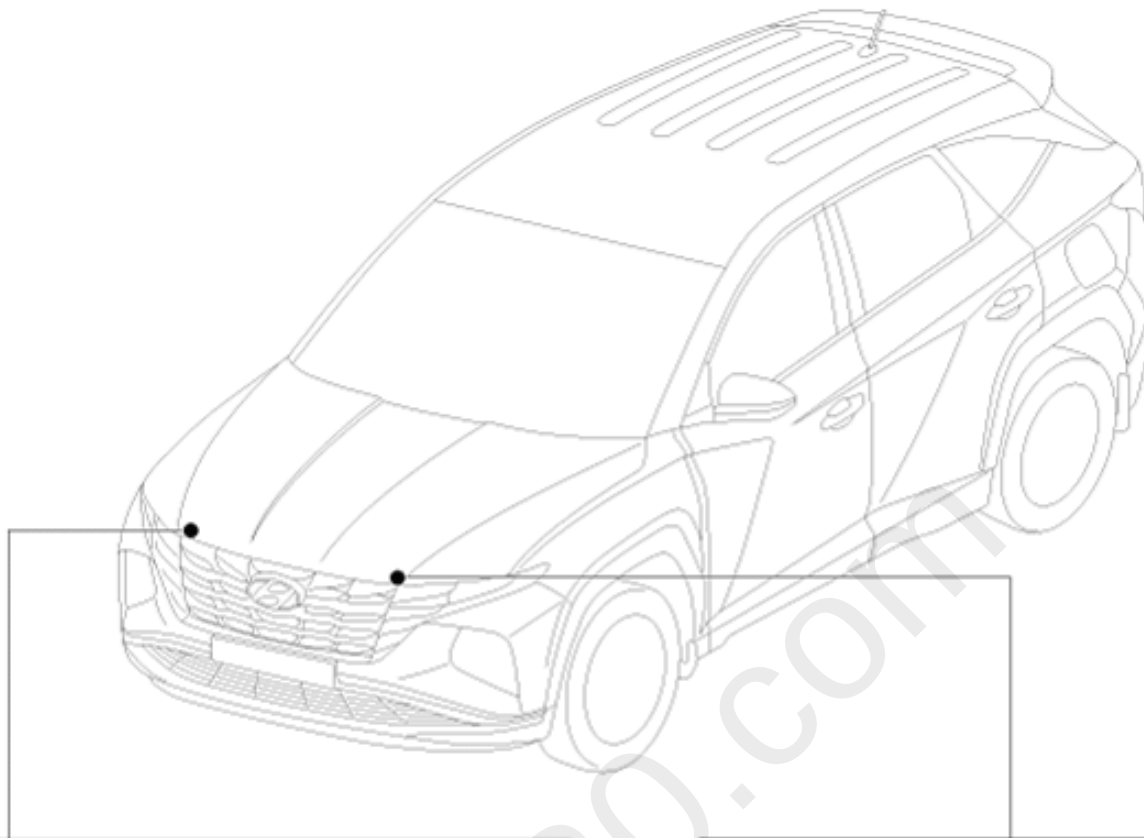
Do not touch any system buttons while performing this function.

Description

- The front impact sensors (FIS) are installed on the upper of the side panel in Front End Module (FEM). They are remote sensors that detect acceleration due to a collision at their mounting locations.
- The primary purpose of the Front Impact Sensor (FIS) is to provide an indication of a collision. The Front Impact Sensor(FIS) sends acceleration data to the SRSCM.

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Components
Location



[1]

1. Front Impact Sensor (FIS) [RH]



[2]

2. Front Impact Sensor (FIS) [LH]

Removal

1. Disconnect the battery negative terminal.

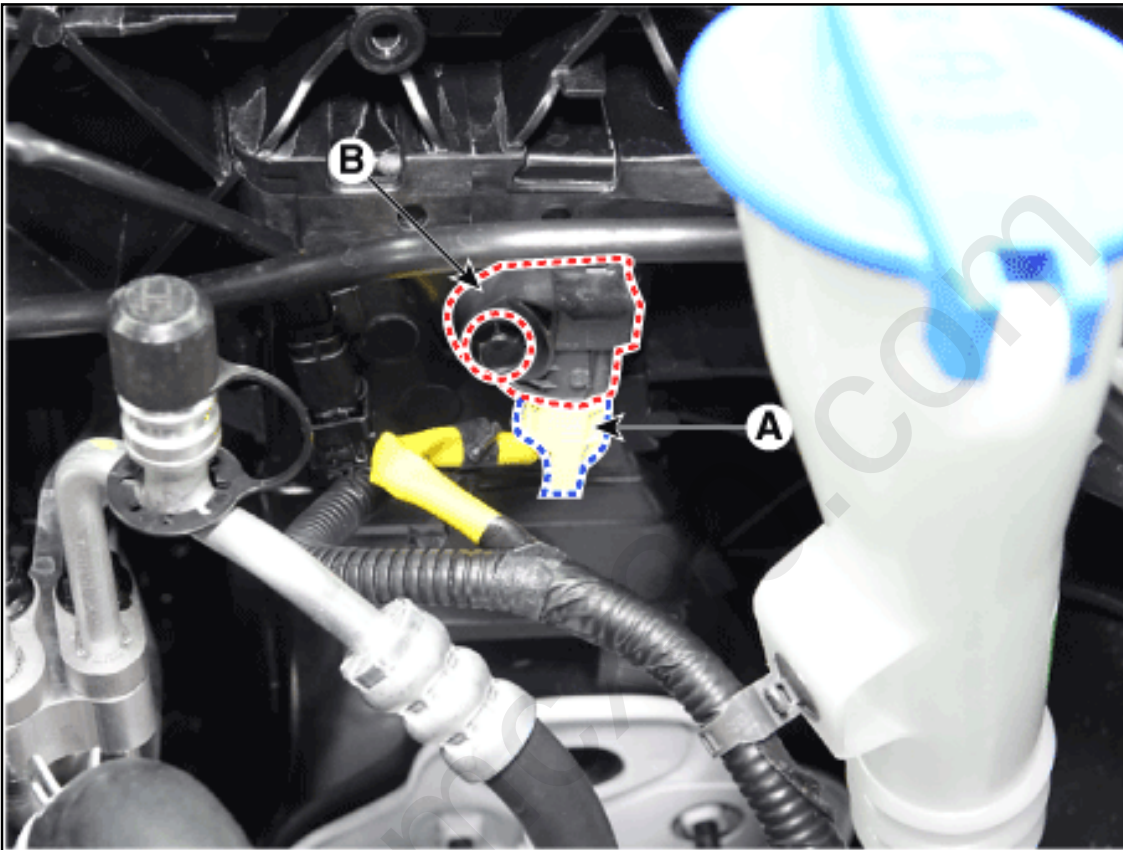


- After disconnecting the cables, wait at least 3 minutes.

2. Remove the front impact sensor assembly (B) by loosening the bolt after disconnecting the connector (A).

Tightening torque :

10.8 - 12.8 N·m (1.1 - 1.3 kgf·m, 8.0 - 9.4 lbf·ft)



Installation

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



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

Description

1. The Side Impact Sensor (SIS) system consists of two kinds of side impact sensor which are installed at each center of the front door module (left and right) and two rear sensors which are installed in the rear pillar (left and right).
 - The Front Side Impact Sensor is also called P-SIS because it detects pressure due to collision at its mounting location.
 - The Rear Side Impact Sensor is also called A-SIS because it detects acceleration due to collision at its mounting location.SRSCM decides deployment of the airbag and the time of deployment through the collision signal of the SIS when collision occurs.

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Components
Location



1. Gravity Side Impact Sensor (G-SIS) _ C pillar
2. Pressure Side Impact Sensor (P-SIS)

3. Gravity Side Impact Sensor (G-SIS) _ B pillar

Removal

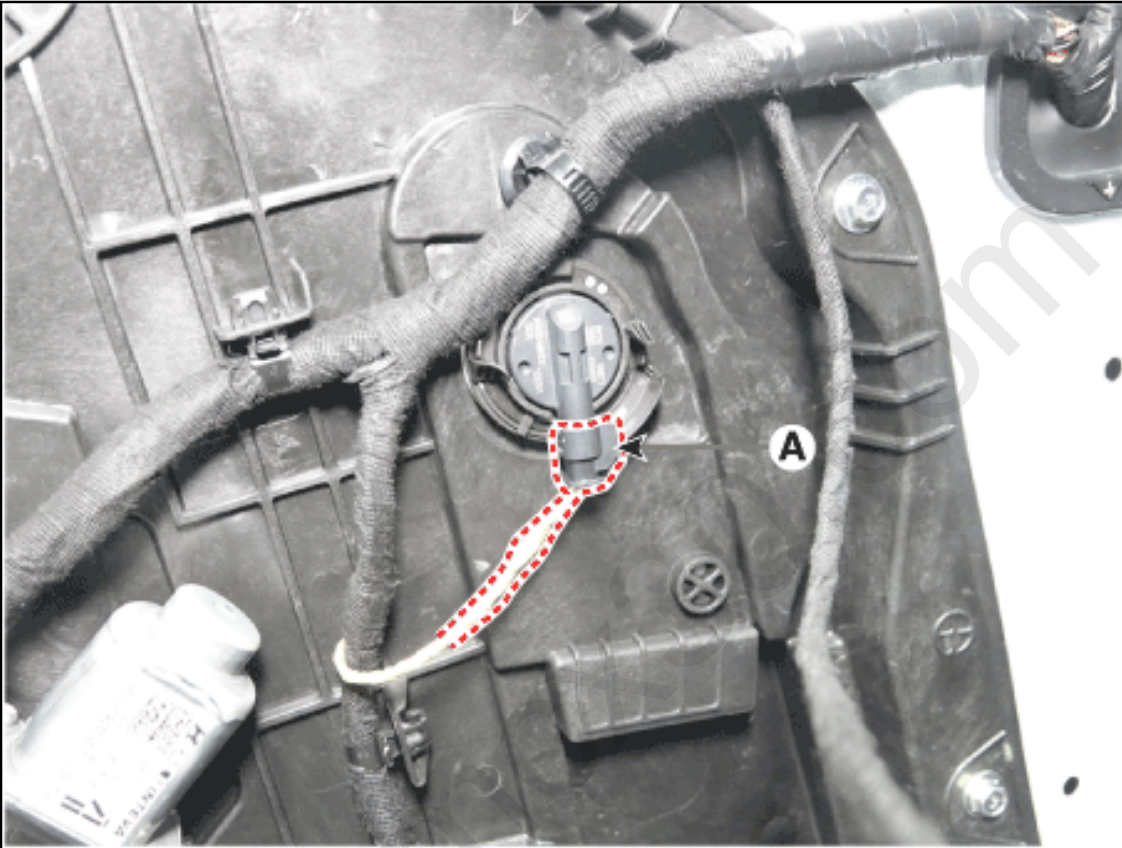
Pressure Side Impact Sensor (P-SIS)

1. Disconnect the battery negative terminal.

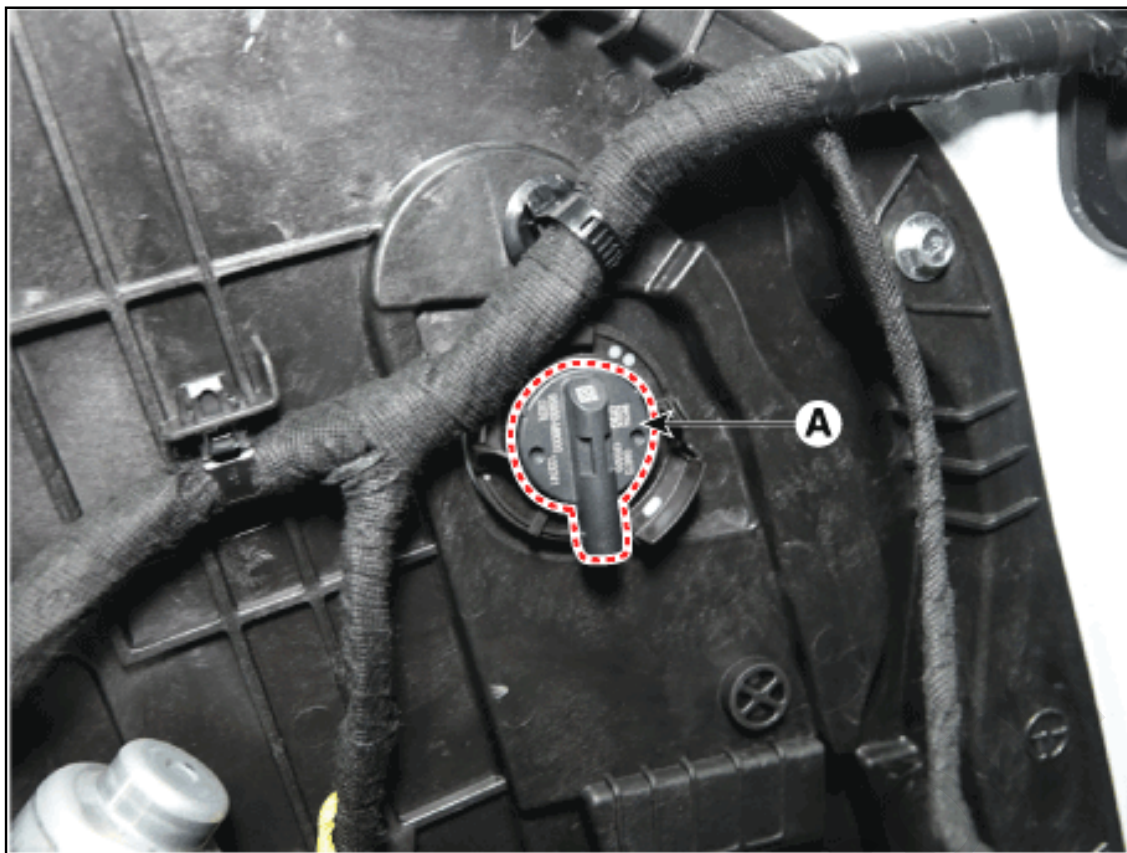


- After disconnecting the cables, wait at least 3 minutes.

2. Remove the front door trim.
(Refer to Body - "Front Door Trim")
3. Disconnect the connector (A) from the pressure side impact sensor.



4. Remove the pressure side impact sensor (A) after rotating it 90° in a counterclockwise direction.



Gravity Side Impact Sensor (G-SIS) _ B pillar

1. Disconnect the battery negative terminal.

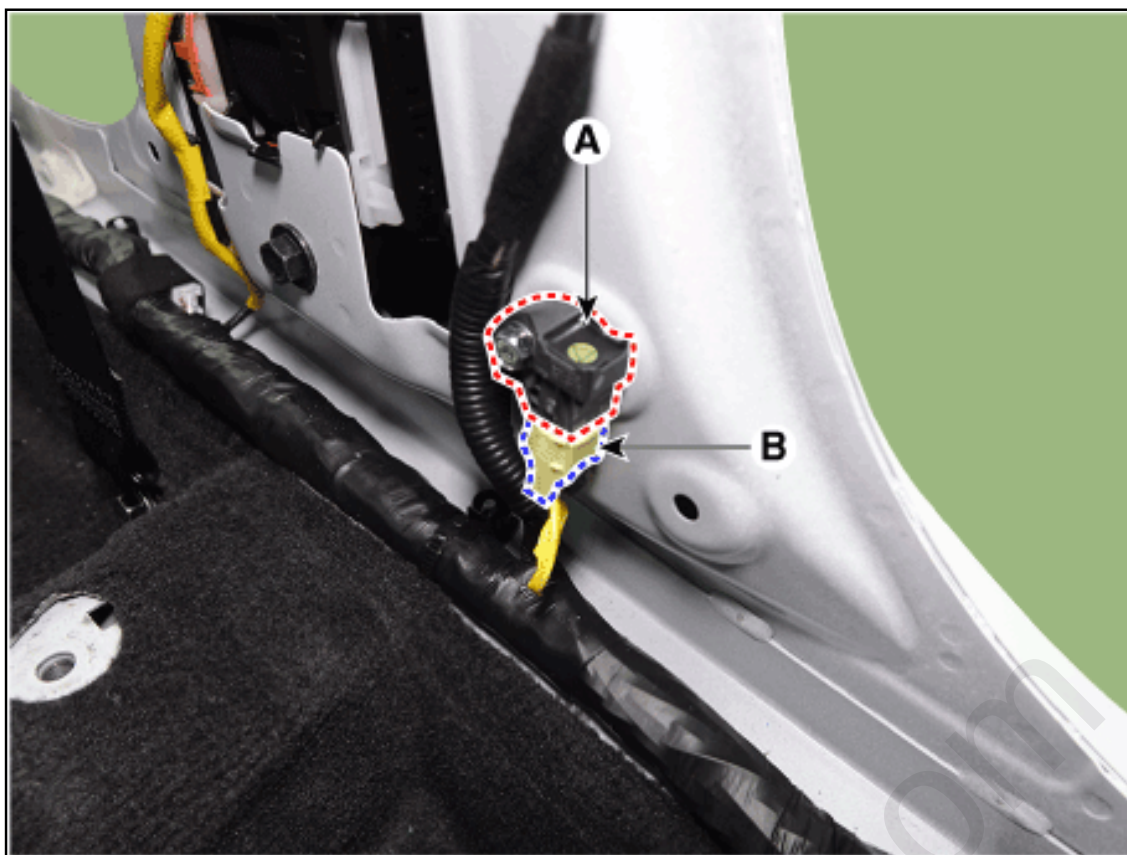


- After disconnecting the cables, wait at least 3 minutes.

2. Remove the center pillar lower trim.
(Refer to Body - "Center Pillar Trim")
3. Remove the gravity side impact sensor (A) by removing the mounting bolt and then disconnecting the connector (B).

Tightening torque :

10.8 - 12.8 N·m (1.1 - 1.3 kgf·m, 8.0 - 9.4 lbf·ft)



Gravity Side Impact Sensor (G-SIS) _ C pillar

1. Disconnect the battery negative terminal.

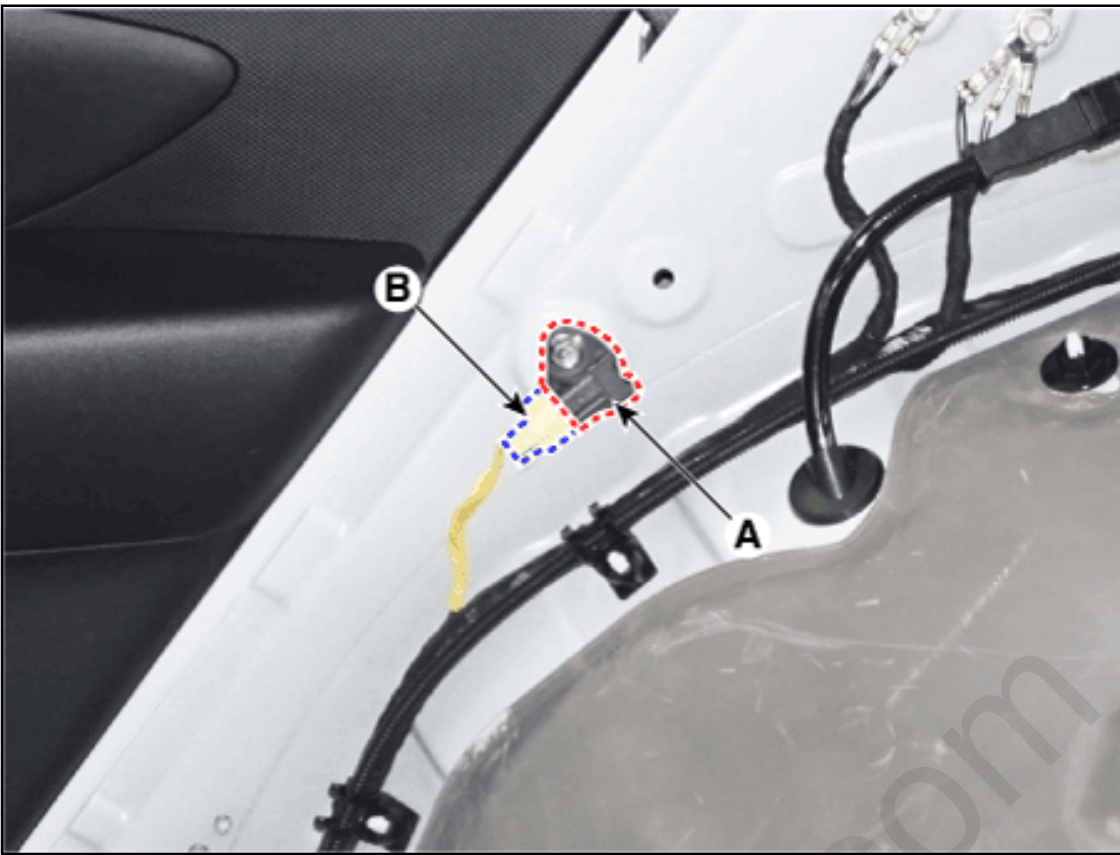


- After disconnecting the cables, wait at least 3 minutes.

2. Remove the luggage side trim.
(Refer to Body - "Luggage Side Trim")
3. Remove the rear side impact sensor (A) by removing the mounting bolt and then disconnecting the connector (B).

Tightening torque :

10.8 - 12.8 N·m (1.1 - 1.3 kgf·m, 8.0 - 9.4 lbf·ft)



Installation



- Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.

1. Install in the reverse of the removal.
2. After installing the SIS, confirm proper system operation:



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

Description

- Driver can control the passenger airbag operating Condition (Enable or Disable) by using this PAB ON/OFF switch.
- Passenger Airbag (PAB) ON/OFF Switch is installed in the crash pad side cover.

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[1]

1. PAB ON/OFF Switch

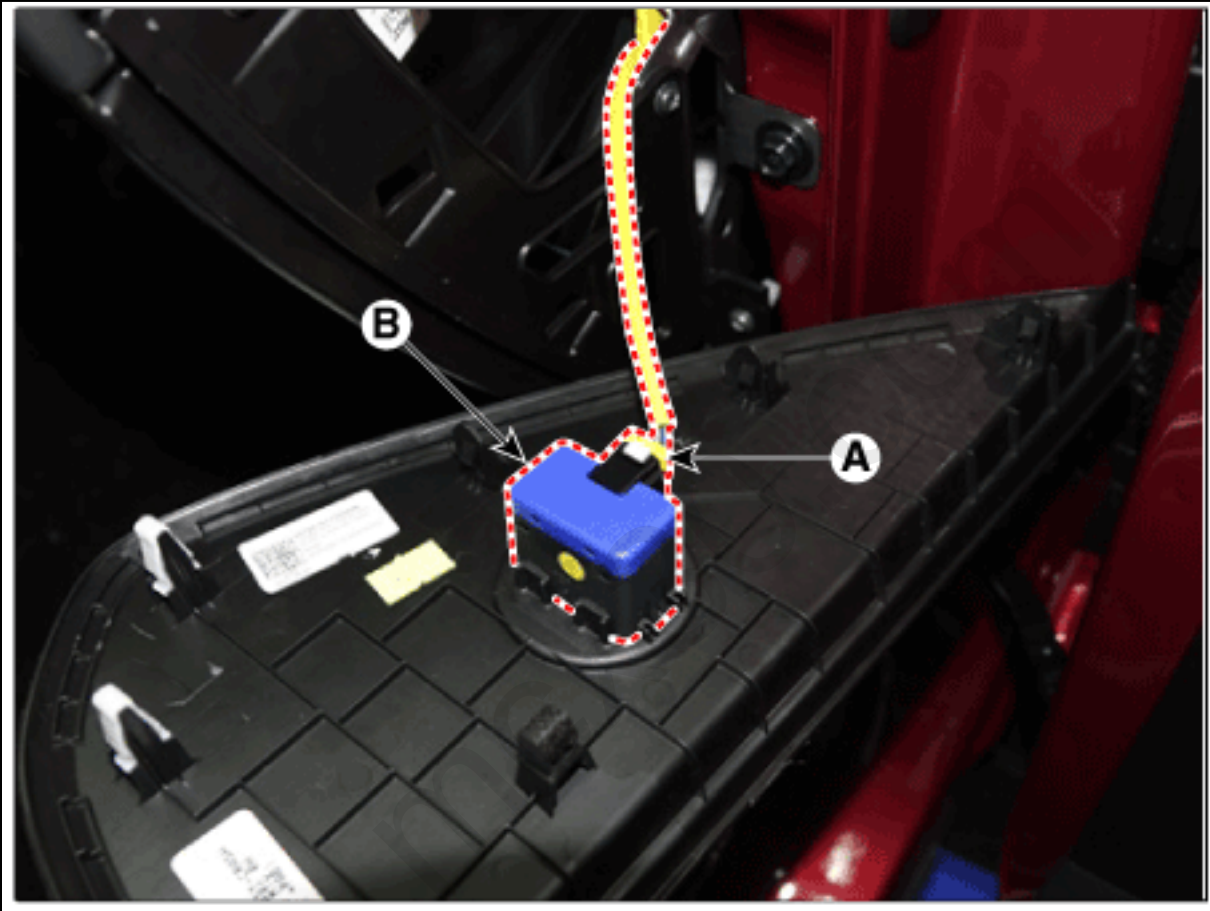
Removal

1. Disconnect the battery negative terminal.



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

2. Remove the crash pad side cover.
(Refer to Body - "Crash Pad Side Cover")
3. Press the lock pin, separate the passenger air bag ON/OFF switch connector (A).
4. Remove the PAB ON/OFF switch (B).



Installation



- Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.

1. Install in the reverse of the removal.
2. After installing the PAB ON/OFF Switch, confirm proper system operation:



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

