

Component Procedures: Impact Sensor

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Component Procedures: Impact Sensor

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Supplemental Restraint System	95930F2000	Front Impact Sensor	160.48	
Supplemental Restraint System	95920F2100	Impact Sensor	190.18	
Supplemental Restraint System	95920F2000	Side Sensor	136.74	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Supplemental Restraint System > Front Sensor, ?	B	1.0	0.0
Remove & Replace	Supplemental Restraint System > Side Sensor, ?	B	0.6	0.0

Front Impact Sensor (FIS) - Description and Operation (Article 44906)

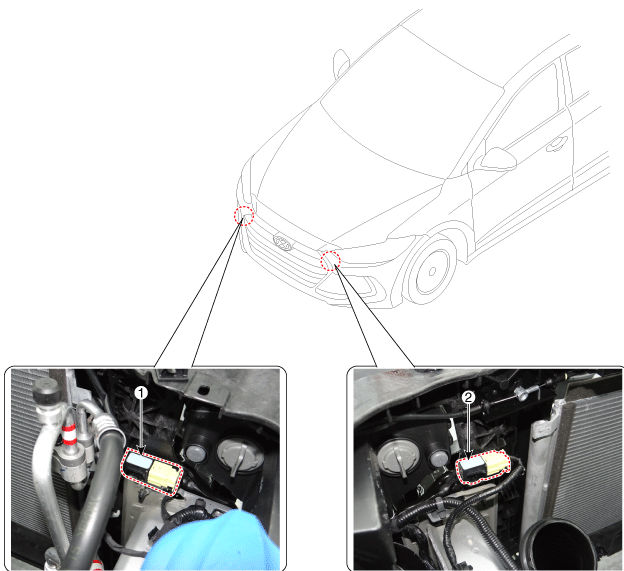
- Description
- The front impact sensor s (FIS) are installed on the upper of the side panel in Front End Module (FEM). They are remote sensors that detect acceleration due to a collision at their mounting locations.
- The primary purpose of the Front Impact Sensor (FIS) is to provide an indication of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

Side Impact Sensor (SIS) - Description and Operation (Article 44909)

- Description
- Side Impact Sensor s (SIS), each installed on the center part of the right and left front door modules and the right and left center pillars, detects side impact during collision.
- The SRSCM uses the signals from SIS during side collision to determine whether and when to deploy the side air bag .

Front Impact Sensor (FIS) - Components and Components Location (Article 44905)

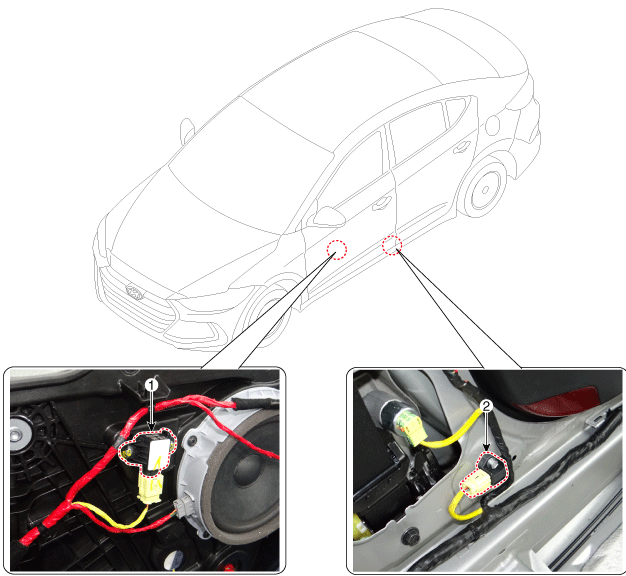
- Components



1. Front right Impact Sensor (FIS)
2. Front left Impact Sensor (FIS)

Side Impact Sensor (SIS) - Components and Components Location (Article 44908)

- Components



1. Front Pressure Side Impact Sensor (P- SIS) 2. Front Gravity Side Impact Sensor (G-SIS)

Front Impact Sensor (FIS) - Repair Procedures (Article 44907)

- Removal

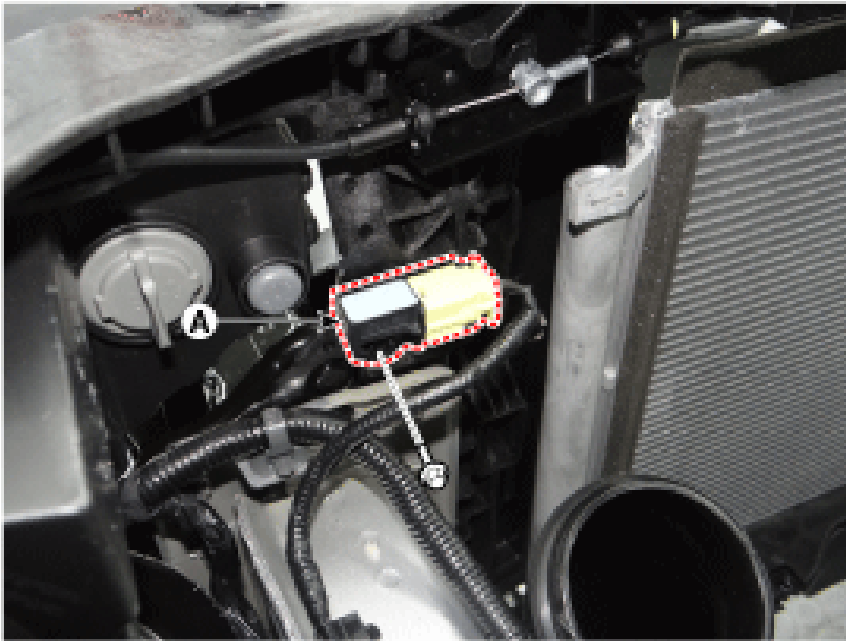
Removal of the airbag must be performed according to the precautions/ procedures described previously. Before disconnecting the front impact sensor connector, disconnect the front airbag connector(s). Do not turn the ignition switch ON and do not connect the battery cable while replacing the front impact sensor .



- Removal of the airbag must be performed according to the precautions/ procedures described previously.
- Before disconnecting the front impact sensor connector, disconnect the front airbag connector(s).
- Do not turn the ignition switch ON and do not connect the battery cable while replacing the front impact sensor .
- Disconnect the battery negative cable, and wait for at least three minutes before beginning work.
- Disconnect the front impact sensor connector (A).



- Remove the front impact sensor (A) after loosening the mounting bolt.



- Installation

Do not turn the ignition switch ON and do not contact the battery cable while replacing the front impact sensor.

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

- Install the new front impact sensor.

- Connect the front impact sensor connector.

- Install the front impact sensor mounting bolt. Tightening torque : 7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.8 - 7.2 lb-ft)

- Reconnect the battery negative cable.

- After installing the Front Impact Sensor, 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.

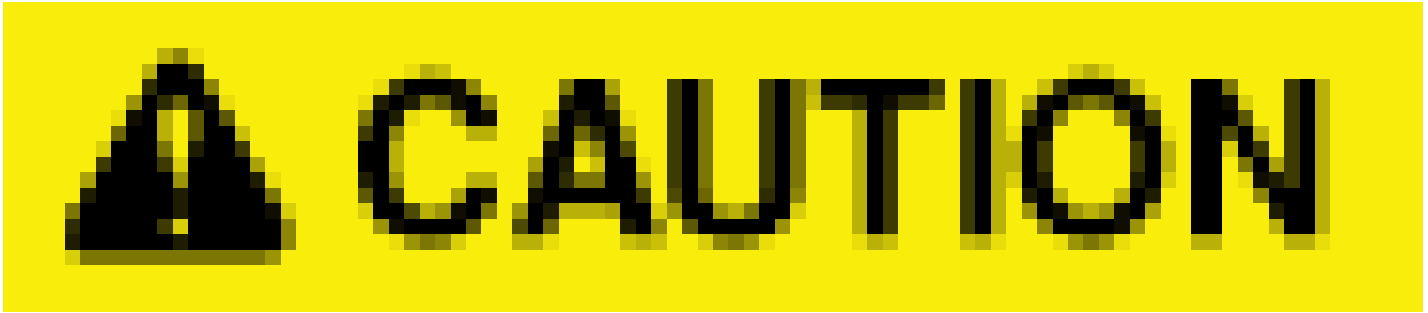
- Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

Side Impact Sensor (SIS) - Repair Procedures (Article 44910)

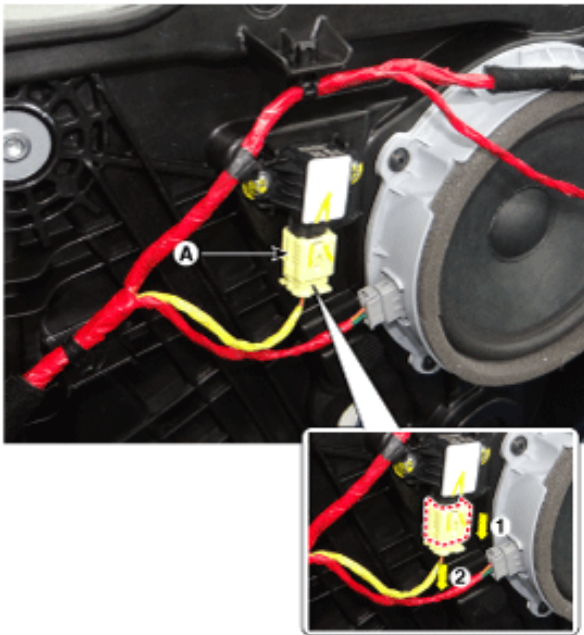
- Removal

Pressure Side Impact Sensor

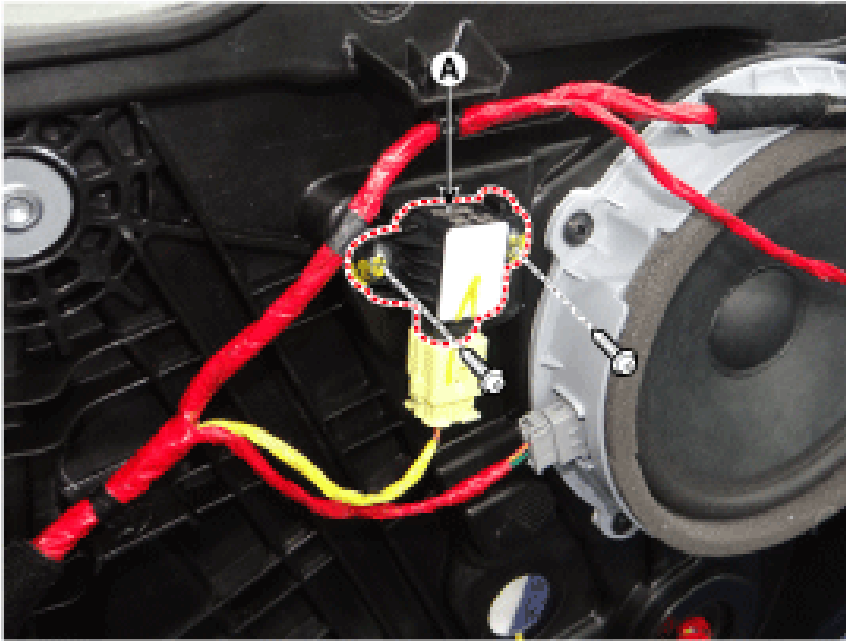
Removal of the airbag must be performed according to the precautions/procedures described previously. Before disconnecting the side impact sensor connector(s), disconnect the side airbag connector(s). Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.



- Removal of the airbag must be performed according to the precautions/procedures described previously.
- Before disconnecting the side impact sensor connector(s), disconnect the side airbag connector(s).
- Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.
- Disconnect the battery negative cable, and wait for at least three minutes before beginning work.
- Remove the front door trim.
- Disconnect the pressure side impact sensor connector (A).



- Remove the side impact sensor (A) after loosening the side impact sensor mounting screws.



Gravity Side Impact Sensor

- Disconnect the battery negative cable and wait for at least three minutes before beginning work.
- Remove the door scuff trim. (Refer to Body - "Interior Trim")
- Remove the center pillar trim. (Refer to Body - "Interior Trim")
- Disconnect the side impact sensor connector (A).



- Remove the side impact sensor (A) after loosening the side impact sensor mounting bolt.



- Installation

- Install the pressure side impact sensor with the screw then connect the pressure side impact sensor connector. Tightening torque : 2.0 - 2.9 N.m (0.2 - 0.3 kgf.m, 1.4 - 2.2 lb-ft)

- Install the front door trim.

- Reconnect the battery negative cable.

- After installing the pressure side impact sensor, confirm proper system operation: Turn the ignition sw itch ON; the SRS indicator light should be turned on for about six seconds and then go off. You must comply with the specified tightening torques with the tool specified because Pressure – Side Impact Sensors (P- SIS) may be broken or POP-NUT may be rotated. Problems may be occurred in the durability of P-SIS or impact sensing performance may be depreciated if POP-NUT is rotated. The door module must not be transformed because SRSCM judges a impact through the pressure sensor in the door module.

- Turn the ignition sw itch ON; the SRS indicator light should be turned on for about six seconds and then go off.

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- The door module must not be transformed because SRSCM judges a impact through the pressure sensor in the door module.

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

- Install the side impact sensor with the bolt then connect the side impact sensor connector. Tightening torque : 7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.8 - 7.2 lb-ft)

- Install the center pillar trim. (Refer to Body - "Interior Trim")

- Install the door scuff trim. (Refer to Body - "Interior Trim")

- After installing the Side Impact Sensor, 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.

- Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.