

CURTAIN AIR BAG MODULE

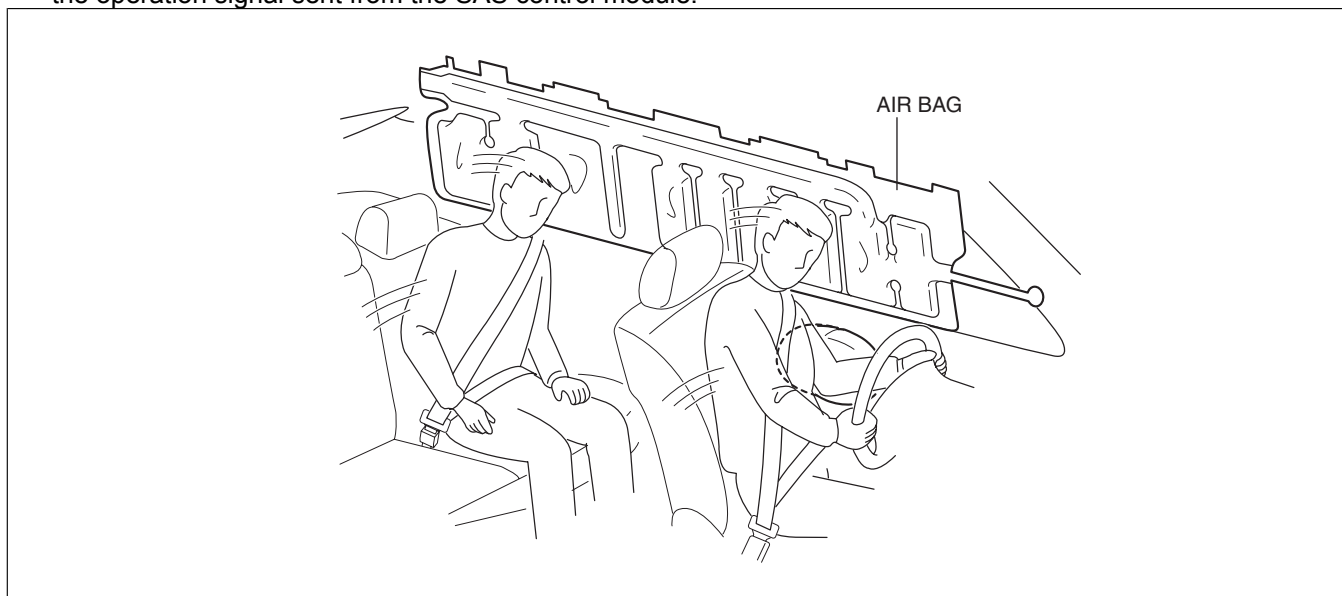
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Purpose

- When a curtain air bag module receives an impact from a lateral collision, the operation (deployment) of the air bag mediates the impact to the head of the driver and front passenger.

Function

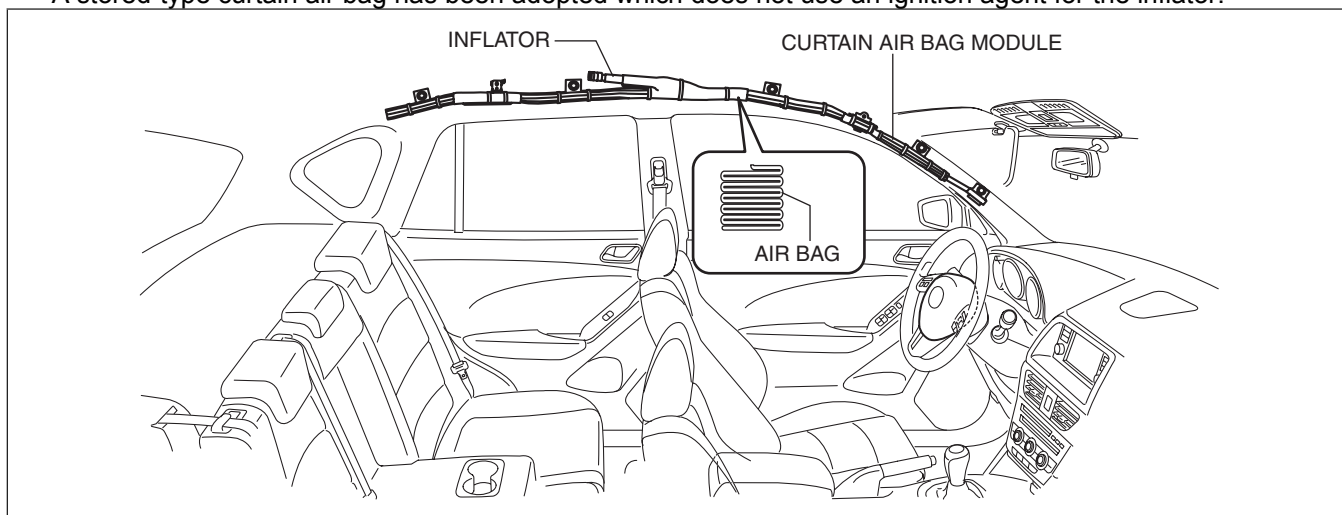
- When a curtain air bag module receives an impact from a lateral collision, the air bag is operated (deployed) by the operation signal sent from the SAS control module.



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Construction

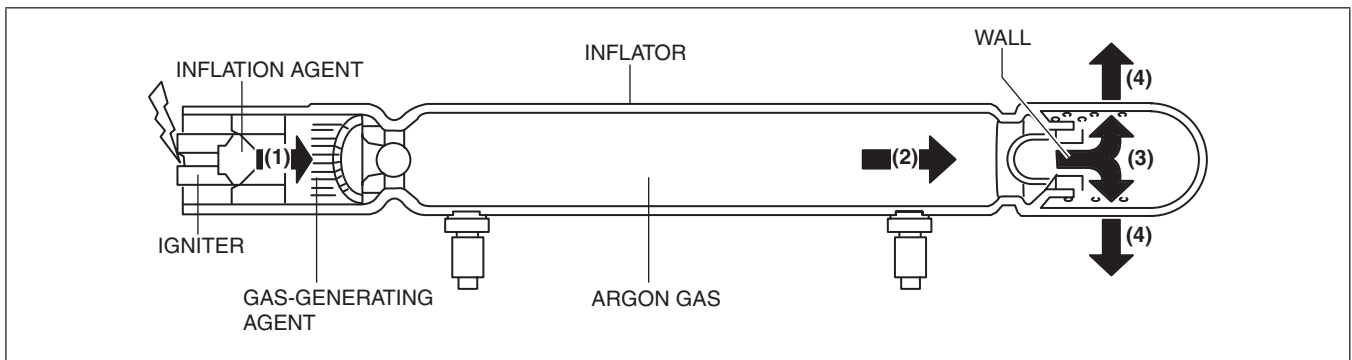
- The curtain air bag module is installed along the roof edge between the A and C pillars.
- The curtain air bag module consists of the inflator and air bag.
- A stored-type curtain air bag has been adopted which does not use an ignition agent for the inflator.



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Operation

- The curtain air bag module operates (deploys) the air bag by activating the internal inflator.
 - The inflator operates (deploys) in the following order:
1. When an operation (deployment) signal is received from the SAS control module, the igniter built into the inflator generates heat and ignites the ignition agent.



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2. The combustion of the ignition agent causes the ignition of a gas agent. The section of the wall from which the air bag deploys is broken by this impact wave.
3. The gas generated by the sealed argon gas and gas-generating agent is cooled at the filter and the filtrate is injected into the air bag.
4. When a curtain air bag operates (deploys), the A-pillar trim and headliner are spread apart by the compressed gas generated from the inflator, inflating the air bag.

Fail-safe

- Function not equipped.