

■ SRS AIRBAG SYSTEM

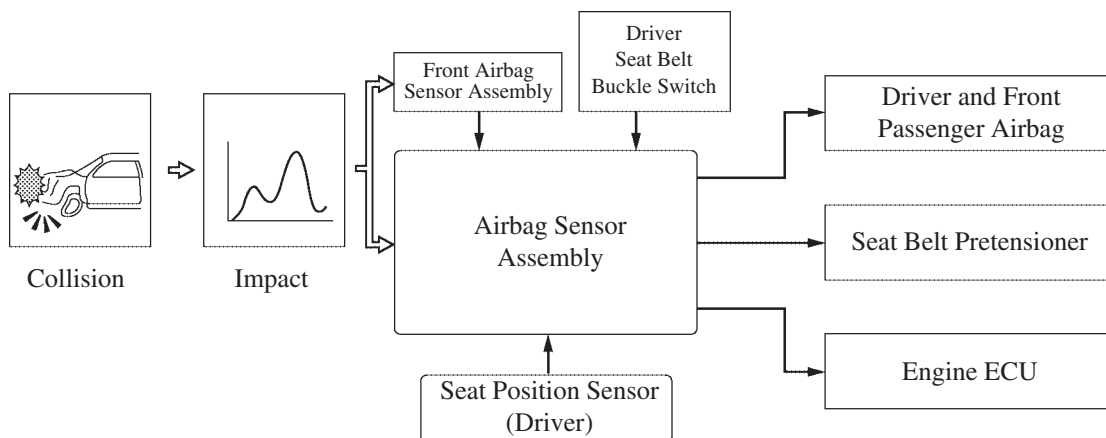
1. General

- On the new Land Cruiser, a curtain shield airbag system that helps reduce the impact applied to the front and rear seat occupants with a single curtain shield airbag has been adopted as optional equipment for Europe.
In conjunction with this system, a side and curtain shield airbag sensor assembly has been provided at the bottom of the center pillar and a curtain shield airbag sensor assembly at the bottom of the rear pillar.
- In this system, a front side collision is detected by the side and curtain shield airbag sensor assembly in order to simultaneously deploy the side and curtain shield airbags. A rear side collision is detected by the curtain shield airbag sensor assembly and the airbag sensor assembly in order to deploy only the curtain shield airbag.
- Roll sensing of curtain shield airbags control has been adopted in order to deploy the curtain shield airbags and the seat belt pretensioners for the driver and front passenger, in the event that the vehicle rolls over. A roll sensing of curtain shield airbags cutoff switch is provided on the driver side of the instrument panel to enable the driver to disable this system.
- Dual-stage SRS airbags system, that controls the airbag inflating output optimum by judging the extent of impact and seat position, has been used for the driver and front passenger airbags on the model for Europe as standard equipment.
- In accordance with the adoption of the dual-stage SRS airbag system, a seat position sensor has been established for the driver seat.
- On the new model, the previous mechanical type front airbag sensor assembly (consisting of movable and stationary contact points) has been changed to an electrical (deceleration sensor) type front airbag sensor assembly.
- Front passenger airbag door is made invisible. This means that without the airbag door, the airbag will be inflated by breaking to open the cleavage line stored in the instrument panel inflating.
- This system has adopted a fuel cut control that stops the fuel pump when the airbag is deployed.
- Along with the aforementioned changes, new DTCs (Diagnostic Trouble Codes) have been added.

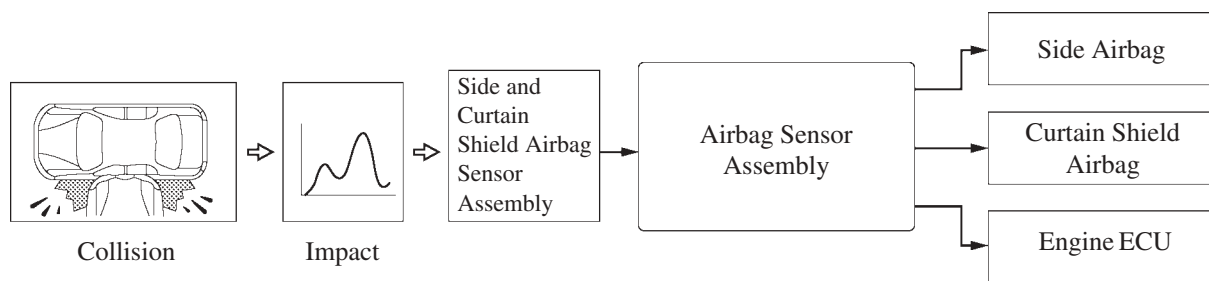
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2. System Diagram

► Front Airbag Operation ◀

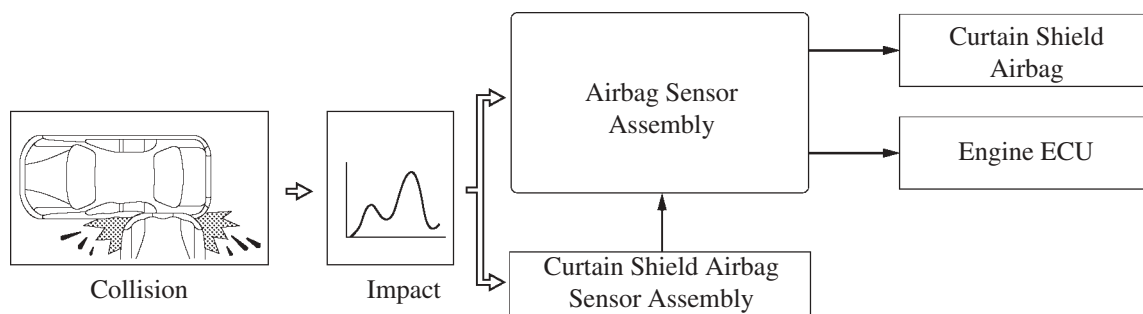


► Side and Curtain Shield Airbag Operation ◀



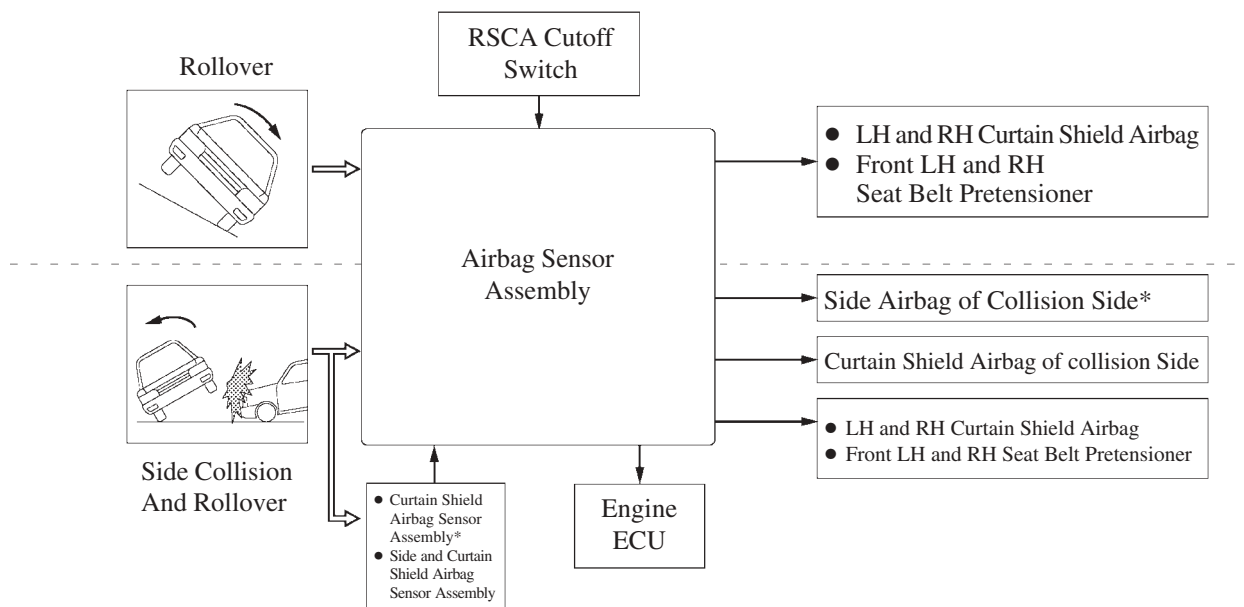
231LX13

► Curtain Shield Airbag Operation ◀



231LX14

► Roll Sensing of Curtain Shield Airbags Operation ◀



231LX15

*: Activates depending on the condition of the collision.