

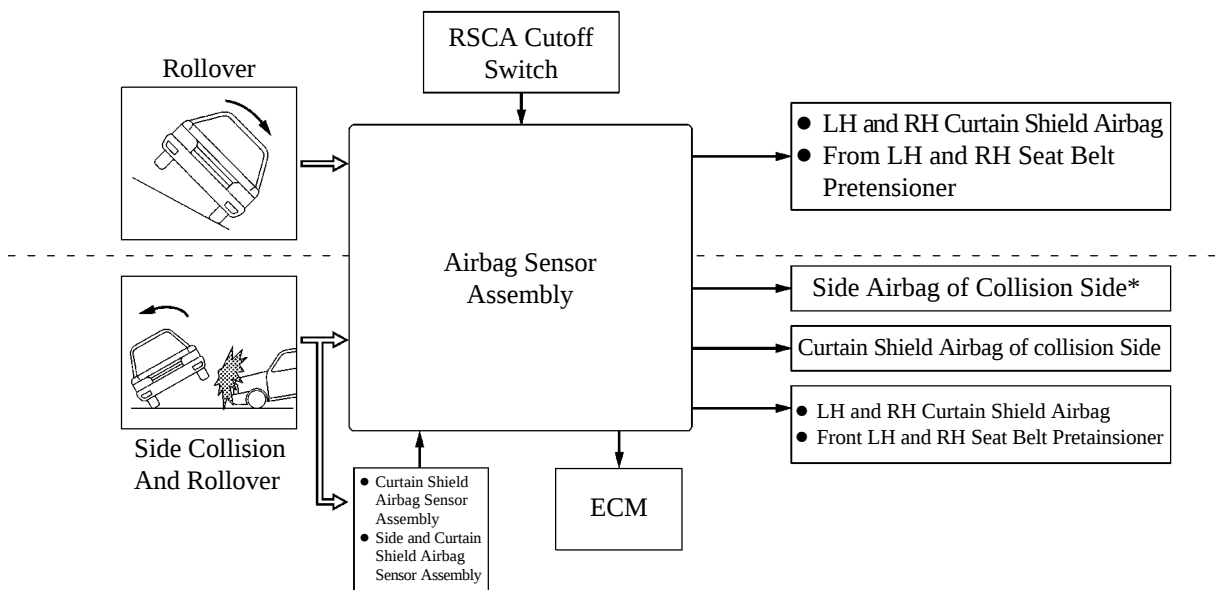
■ SRS AIRBAG SYSTEM

1. General

- Roll sensing of curtain shield airbag control has been adopted in order to deploy the curtain shield airbag 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 airbag cutoff switch is provided on the driver side of the instrument panel to enable the driver to disable this system.
- Along with the aforementioned changes, new DTC (Diagnostic Trouble Code) have been added.

2. System Diagram

► Roll Sensing of Curtain Shield Airbag Operation ◀



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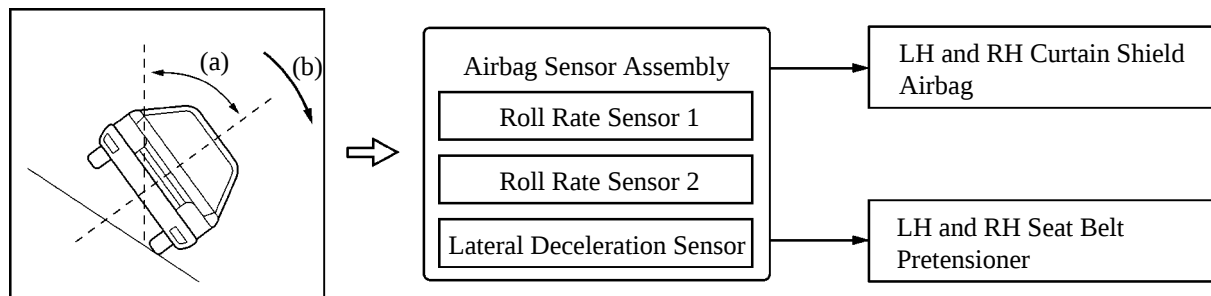
* : Activates depending on the condition of the collision.

Roll Sensing of Curtain Shield Airbag Control

1) General

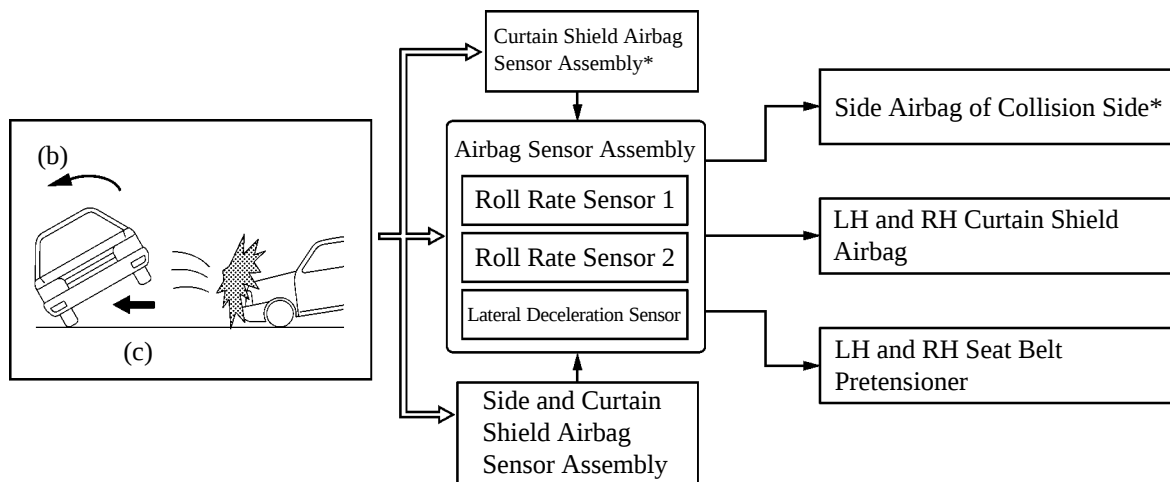
- In this system, the airbag sensor assembly contains a roll rate sensor1 and roll rate sensor2 (that determine the inclination angle the vehicle) and a lateral deceleration sensor (that determine the lateral force that is applied to the vehicle). These sensors detect the vehicle's roll angle (a), rotational speed (b), and lateral acceleration speed. (c).
- Based on the information obtained from sensors, the airbag sensor assembly makes an overall judgment of the vehicle's roll angle (a), rotational speed (b), and lateral acceleration speed (c). If the airbag sensor assembly determines that the vehicle has rolled over due to cause other than the side collision, it deploys the right and left curtain shield airbags and the front right and left seat belt pretensioners.
- This system provides a roll sensing of curtain shield airbags cutoff switch on the driver side of the instrument panel with which the driver can stop the operation of the function.
However, by operating this cutoff switch and while the roll sensing of the curtain shield airbag control is OFF, and when the airbag sensor assembly judges to operate the side and curtain shield airbag system in the event of side collision, it is no need prohibit this operation.

► Rollover Detection ◀



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► Side Collision and Rollover Detection ◀

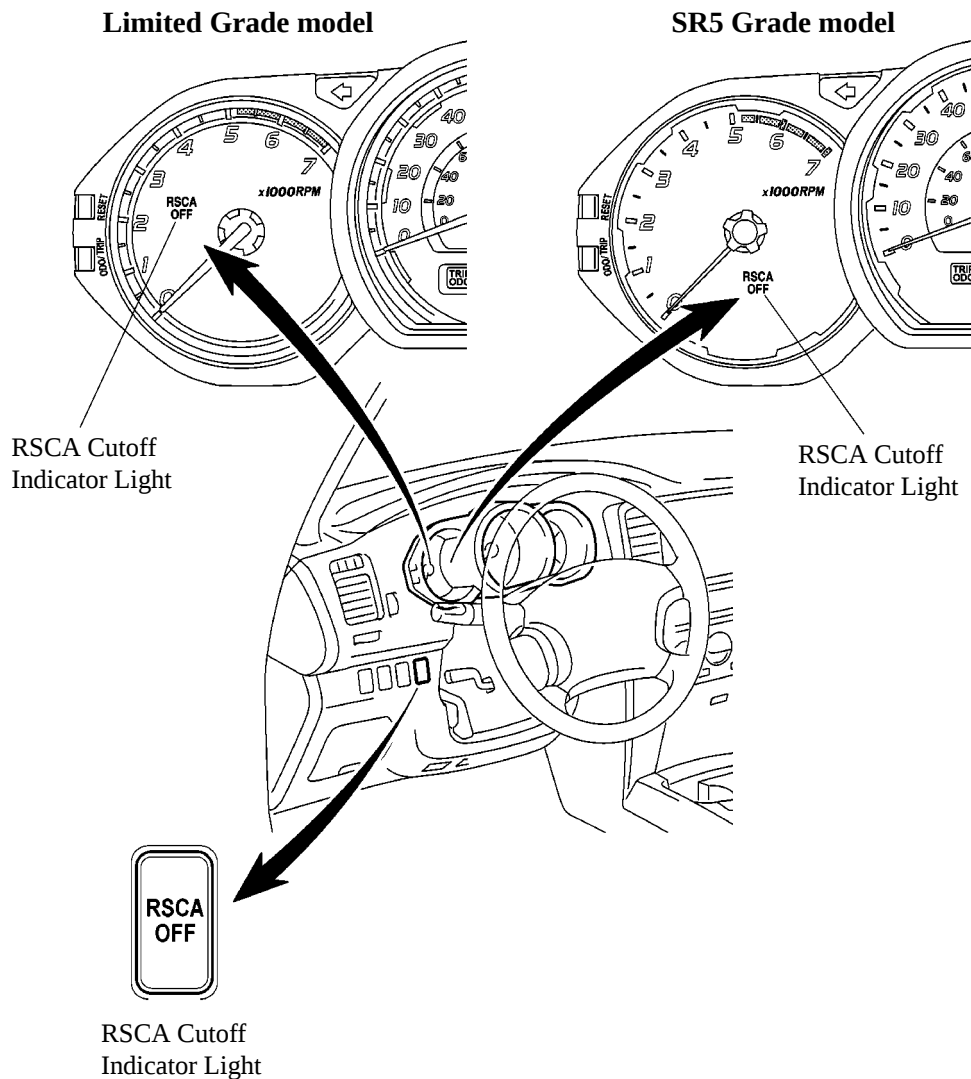


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* : Activates depending on the condition of the collision.

2) Roll Sensing of Curtain Shield Airbag Cutoff Switch

- The roll sensing of curtain shield airbag cutoff switch is mounted on the driver side of the instrument panel.
- Pressing this switch longer than 2 seconds, it enables to cutoff the operation of the roll sensing of the curtain shield airbags control.
- This switch is momentary type. Each time when the ignition switch is turned ON, in spite of the condition selected previously, roll sensing of the curtain shield airbags control will return to ON condition.
- When this switch is turned ON, an indicator light in the combination meter illuminates to inform the driver that the operation of the roll sensing shield airbags control has been disabled.



Diagnosis Function

The following DTC new added.

DTC No.	Detection Item
B1628/29	RSCA (Roll Sensing of Curtain shield Airbag) cutoff indicator light malfunction