

4. Function of Main Component

Item		Function
Combination Meter	Master Warning Light	Turns on to warn the driver in accordance with the signal from seat belt control ECU.
	Multi-information Display	Displays a warning message to inform or warn the driver of the system condition in accordance with the signal from the seat belt control ECU.
Millimeter Wave Radar Sensor		Radiates millimeter radio wave radar to forward, uses the reflected millimeter radio wave for detecting the presence of a vehicle being driven ahead, the vehicle-to-vehicle distance, and the relative speed, and transmits these pieces of information to the distance control ECU.
Front Seat Outer Belt	Seat Belt Motor	Retracts the seat belt in accordance with the signals received from the seat belt control ECU.
Front Seat Inner Belt	Seat Belt Buckle Switch	Detects the condition of the driver or front passenger seat belt and transmits its signal to the airbag sensor assembly.
Airbag Sensor Assembly		Transmits the equip condition of the seat belt to the seat belt control ECU.
Distance Control ECU		Makes an unavoidable collision judgment based on the information received from the millimeter wave radar sensor, vehicle speed sensor, steering angle sensor, and yaw rate & deceleration sensor, and outputs a seat belt, brake assist, and suspension control standby request signal.
Seat Belt Control ECU		<ul style="list-style-type: none"> ● Receives a seat belt operation request signal from the distance control ECU or skid control ECU and operates the seat belts. ● If the seat belt control ECU detects a malfunction in the pre-crash safety system, it will output DTCs (Diagnostic Trouble Codes).
Suspension Control ECU		Receives a request signal from the distance control ECU and controls the damping force of each shock absorber.
Suspension Control Actuator		In accordance with the signal from the suspension control ECU, changes the damping force of each shock absorber.
Brake Actuator	Skid Control ECU	<ul style="list-style-type: none"> ● Receives a brake assist standby request signal from the distance control ECU and switches the brake assist to the standby mode. When a stop light switch signal is input, it operates the brake assist. ● Determines the brakes have been applied suddenly through a signal received from the master pressure sensor, and outputs a seat belt operation signal to the seat belt control ECU. ● Transmits a vehicle speed signal to the distance control ECU.
	Master Cylinder Pressure Sensor	Detects the master cylinder pressure and transmits the signal to the skid control ECU.
Stop Light Switch		Detects the pressing of the brake pedal and transmits the signal to the skid control ECU.
Vehicle Speed Sensor		Detects the wheel speed signal and transmits the signal to the skid control ECU.
Yaw Rate & Deceleration Sensor		Detects the yaw rate and lateral/ longitude deceleration of the vehicle and transmits the signal to the skid control ECU and the distance control ECU.
Steering Angle Sensor		Detects the angle and direction of steering and transmits the signal to the skid control ECU and the distance control ECU.