

## 6. Function of Main Components

Components		Function
Brake Actuator		Charges the fluid path based on the signals from the skid control ECU during the operation of the ABS with EBD & Brake Assist & TRC & VSC system, in order to control the fluid pressure that is applied to the wheel cylinders.
	Master Cylinder Pressure Sensor	Assembled in the brake actuator and detects the brake master cylinder pressure.
	Skid Control ECU	Judges the vehicle driving condition based on signals from each sensor, and sends brake control signals to the brake actuator.
	Solenoid Relay	Supply or cut off power to the solenoid valves in the brake actuator.
Combination Meter	Brake System Warning Light	<ul style="list-style-type: none"> <li>Lights up to alert the driver when a malfunction occurs in the EBD control or skid control ECU.</li> <li>Lights up to inform the driver when the parking brake pedal depressed.</li> <li>Light up to alert the driver when the brake fluid level decreased.</li> </ul>
	ABS Warning Light	Lights up to alert the driver when the skid control ECU detects a malfunction in the ABS, EBD, or Brake Assist system.
	VSC Warning Light	Lights up to alert the driver when the skid control ECU detects a malfunction in the TRC or VSC.
	TRC OFF Indicator Light	<ul style="list-style-type: none"> <li>Lights up to inform the driver when the TRC system is turned OFF by the TRC OFF switch.</li> <li>Lights up to alert the driver when the skid control ECU detects a malfunction in the TRC or VSC.</li> </ul>
	Slip Indicator Light	Blinks to inform the driver when the TRC or VSC is operated.
Speed Sensor (FL, FR, RL, RR)		Detects the wheel speed of each wheels.
Steering Angle Sensor		Detects the steering direction and angle of the steering wheel.
Yaw Rate & Deceleration Sensor		<ul style="list-style-type: none"> <li>Detects the vehicle's yaw rate.</li> <li>Detects the vehicle's acceleration in the forward, rearward, and lateral.</li> </ul>
Pump Motor Relay		Supply or cut off power to the pump motor in the brake actuator.
Stop Light Switch		Detects the brake pedal depressing signal.
TRC OFF Switch		Cancels the TRC operation only: it does not apply to other systems.
Neutral Start Switch		Detects the shift position.
VSC Warning Buzzer		<ul style="list-style-type: none"> <li>Sounds intermittently to inform the driver that the VSC is actives.</li> <li>Sounds the buzzer as requested by the Dynamic Laser Cruise Control System.</li> </ul>
Engine ECU		Controls the throttle valve opening angle based on the signals receives from the skid control ECU, in order to control the engine output. Also, sends the throttle valve opening angle signal, accelerator pedal position signal, and engine speed signal to the skid control ECU.
Crankshaft Position Sensor		Detects the engine speed, and sends it via the Engine ECU to the skid control ECU.