

8. Function of Main Components

Component		Function
Combination Meter	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 ABS, EBD, Brake Assist, TRC or VSC system.
	Slip Indicator Light	Blinks to inform the driver when the TRC system or the VSC system is operated.
	TRC OFF Indicator Light	• Lights up to inform the drive when the TRC system is turned OFF by the TRC OFF switch. • Lights up to inform the driver when the skid control ECU detects a malfunction in the ABS, EBD, Brake Assist, TRC or VSC system.
	Brake System Warning Light	Light up to alert the driver when a malfunction occurs in the EBD or skid control ECU.
Engine ECU		• Sends the throttle position sensor, crankshaft position sensor, intake air temp. sensor, etc. to the skid control ECU. • Receives the signal of fuel cut request from the skid control ECU.
Speed Sensors (4)		Detects the wheel speed of each four wheels.
Brake Actuator		Changes the fluid path based on the signals from the skid control ECU during the operation of the ABS with EBD, Brake Assist, TRC and 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 detect the master cylinder pressure.
Skid Control ECU		Judges the vehicle driving condition based on signals from each sensor, and sends brake control signal to the brake actuator.
Brake Fluid Level Warning Switch		Detects the brake fluid level.
Stop Light Switch		Detects the brake pedal depressing signal.
TRC OFF Switch		Cancels the TRC operation only; it does not apply to other systems.
VSC Warning Buzzer		Emits an intermittent sound to inform the driver that the skid control ECU detects a strong front wheel skid tendency or strong rear wheel skid tendency.
Yaw Rate Sensor		Detects the vehicle's yaw rate.
Deceleration Sensor		Detects the vehicle's acceleration in the forward, rearward, and lateral.
Steering Angle Sensor		Detects the steering direction and angle of the steering wheel.
Motor Relay		Supply or cut off power to motor in the brake actuator.
Motor Cut Off Relay		Cut off power to the pump motor in the brake actuator.
Solenoid Relay		Supply or cut off power to solenoid valves in the brake actuator.
Crankshaft Position Sensor		Detects the engine speed and inputs it into the skid control ECU via the engine ECU.
Throttle Position Sensor		Detects the throttle valve opening angle and inputs it into the engine ECU.
Intake Air Temp. Sensor		Detects the intake air temperature in order to estimate the brake actuator temperature and inputs it into the engine ECU.