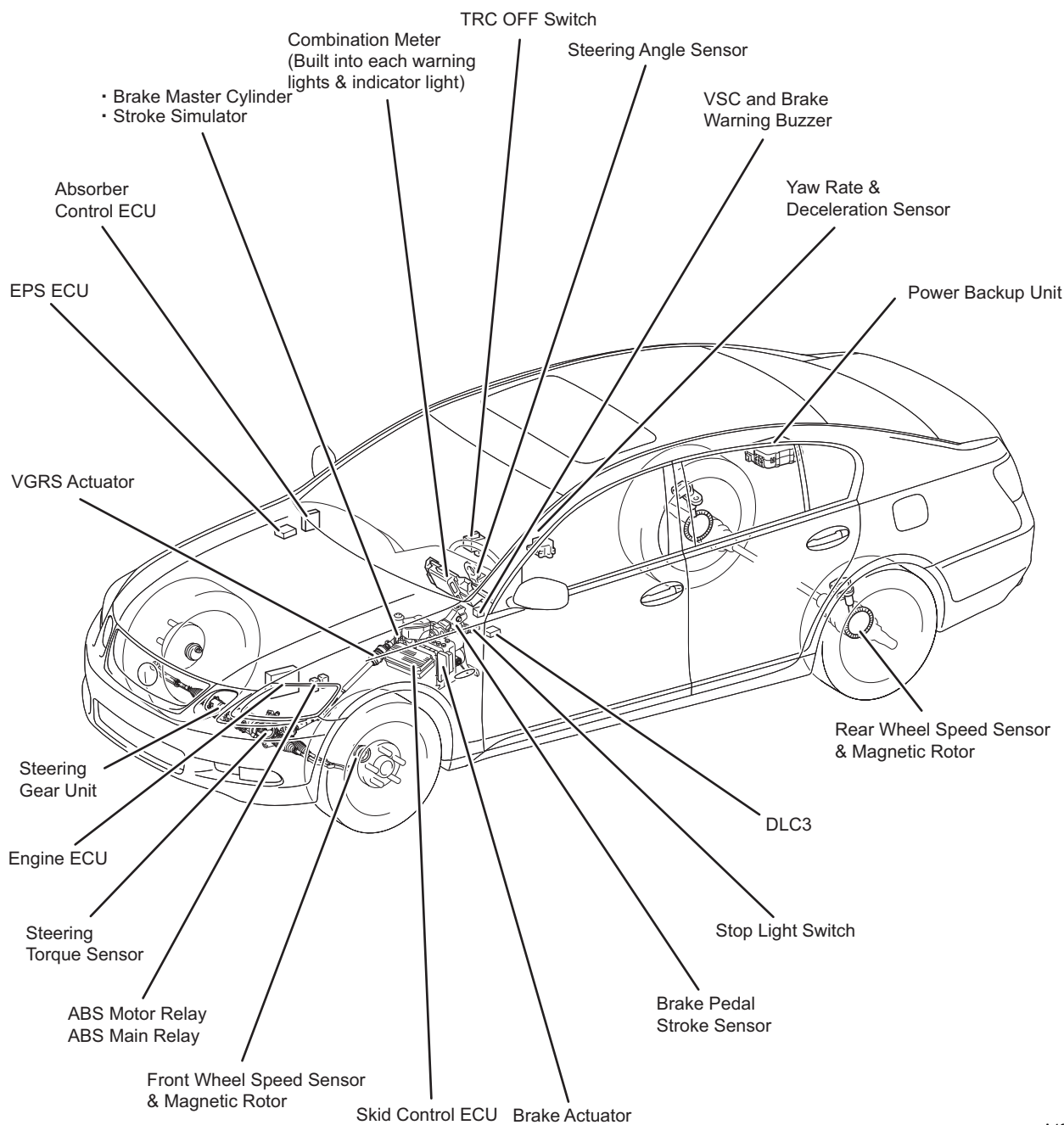


Main Components and Functions

- Components such as the sensors, actuator, and skid control ECU are located as illustrated below.



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Main Components and Functions

Composition parts	Function
Vehicle speed sensor (semiconductor type)	Detects the wheel speed and inputs it into the skid control ECU.
Ignition Switch	Supplies power to the skid control ECU.
Yaw Rate & Deceleration Sensor	Detects the yaw rate (rotational movement) of the vehicle body, as well as its longitudinal and lateral acceleration rates and inputs them into the skid control ECU.
Brake Pedal Stroke Sensor	Detects the amount of brake pedal stroke and inputs it into the skid control ECU.
Stop Light Switch	Detects the state of the brake pedal operation and inputs it into the skid control ECU.
Master Cylinder Pressure Sensor (built into the brake actuator)	Detects the master cylinder pressure and inputs it into the skid control ECU.
Wheel Cylinder Pressure Sensor	Built into the brake actuator, this sensor detects the brake hydraulic pressure of the wheel cylinders.
Accumulator Pressure Sensor	Built into the brake actuator, this sensor detects the accumulator hydraulic pressure.
Steering Angle Sensor	Detects the turning angle and direction of the steering wheel and inputs it into the skid control ECU via the CAN (Controller Area Network).
Combination Meter	The combination meter contains a master warning, slip indicator light, brake warning light, ABS warning light, ECB warning light, and VSC warning (on multi-information display).
VSC Buzzer	Sounds intermittently to inform the driver that the VSC is operating.
Brake Warning Buzzer	Sounds continuously to warn the driver of a drop in the accumulator hydraulic pressure in the brake actuator, a failure in the power supply system, or a drop in the vehicle power voltage (12V).
Brake Actuator	Controls the individual hydraulic pressure of the four wheels in accordance with the signals that are output by the skid control ECU.
Main Relay (built into the relay box)	Operates under the control of the skid control ECU to supply power to the solenoids, as well as to the skid control ECU.
Motor Relay (built into the relay box)	Operates under the control of the skid control ECU to supply power to the pump motor.
Power Backup Unit (located on the right side of the luggage compartment)	Contains a capacitor that accumulates an electrical charge, and discharges it to supply power to the system if there is a drop in the vehicle power voltage (12V).
Skid Control ECU	Processes the signals from the sensors and effects the brake control for the ABS, TRC, VSC, brake assist, and hill assist systems. Also, it maintains communication with the engine ECU and outputs control signals.
Engine ECU	Maintains communication with the skid control ECU in order to control the engine output during the TRC or VSC operation.
DLC3	Enables access to the DTC (Diagnostic Trouble Code) and ECU data when a diagnosis tool (Intelligent Tester II) is connected to this connector and operated.