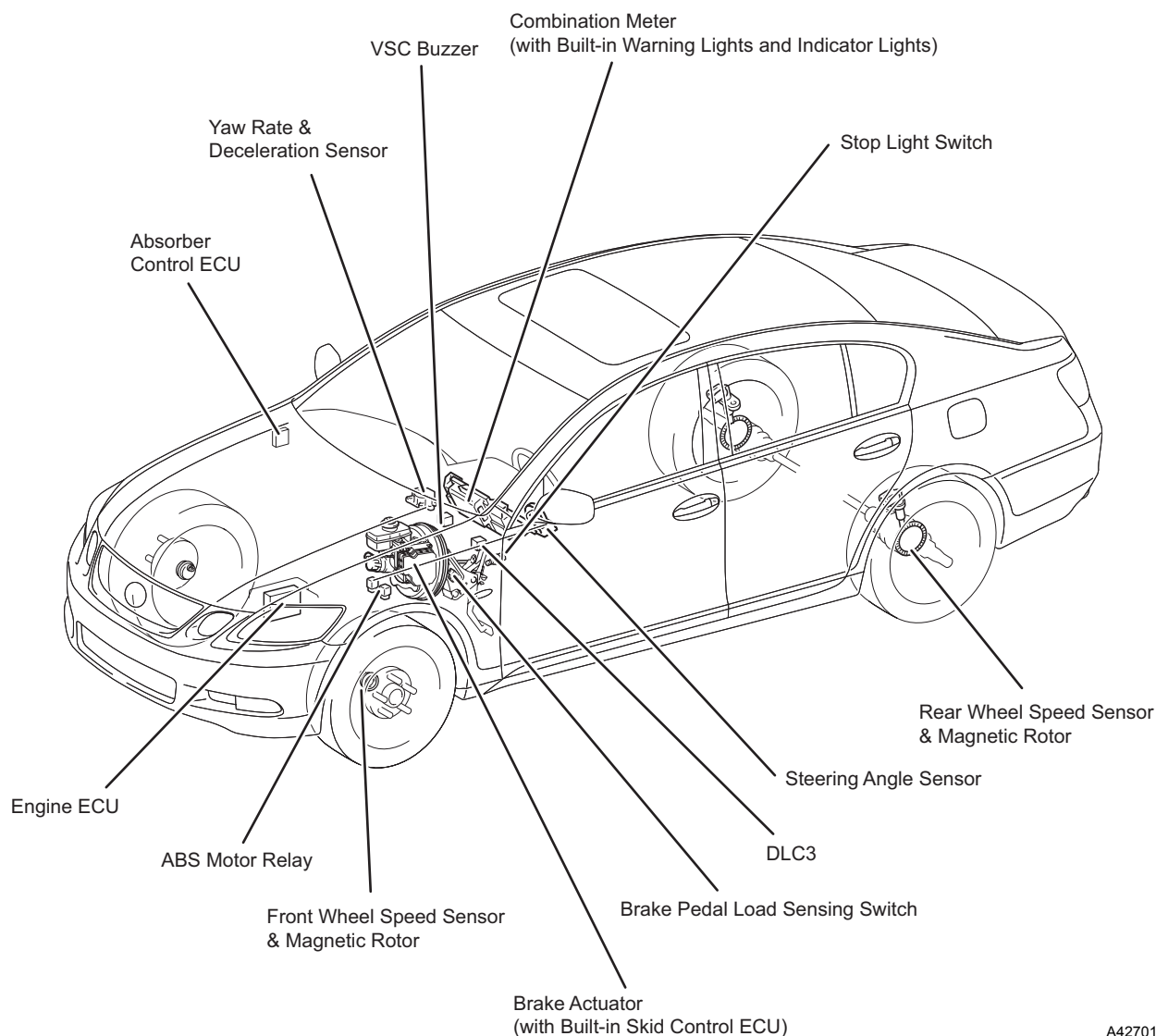


ABS with EBD & BRAKE ASSIST & TRC & VSC BRAKE CONTROL

ABS with EBD & Brake Assist & TRC & VSC

- The skid control ECU processes the signals from the sensors in order to effect the brake control of the ABS, TRC, VSC, and the electronically controlled brake assist. Also, the skid control ECU maintains communication with the engine ECU by outputting control signals.
- The skid control ECU forms a part of the CAN (Controller Area Network) system. Similarly, the steering sensor, yaw rate & acceleration sensor, and the DLC3 connector maintain communication with the skid control ECU via the CAN (Controller Area Network).



Main Components and Functions

Composition parts	Function
Vehicle Speed Sensor (semiconductor)	Detects the wheel speed and inputs the results to the skid control ECU.
Ignition Switch	Supplies power to the skid control ECU.
Yaw Rate & Deceleration Sensor	Detects the yaw rate (axial rotation) and the forward, rearward and lateral acceleration, and inputs the results to the skid control ECU.
Stop Light Switch	Detects the brake operating conditions and inputs the results to the skid control ECU.
Brake Pedal Load Sensing Switch	Brake pedal depression force is detected and it inputs into a skid control ECU.
Steering Angle Sensor	Detects the steering angle and direction, and outputs the results to the skid control ECU via a CAN communication.
Master Cylinder Pressure Sensor	Detects the pressure of the master cylinder and inputs the results to the skid control ECU.
Combination Meter	A slip indicator light, brake warning light, ABS warning light, and VSC warning(displayed on the multi-information display) are included in the combination meter.
Brake Actuator	Controls the hydraulic pressure of each of the four wheel cylinders using the output signal of the skid control ECU.
ABS Motor Relay	Controlled by the skid control ECU. Supplies power to the pump motor.
ABS Motor Breaker Relay	The power supply to the pump motor of an actuator is intercepted at the time of the abnormalities in a motor relay.
ABS Solenoid Relay(Built-in Brake Actuator)	Supplies power to the solenoid valves in the brake actuator.
VSC Buzzer	Sounds intermittently to inform the driver that the VSC is active.
Skid Control ECU	Processes the signals from each sensor to perform brake control for ABS, TRC, VSC, brake assist and hill assist. In addition, it communicates with the engine control ECU to output a control signal.
Engine ECU	Controls the engine output during the operation of TRC and VSC by communicating with the skid control ECU.
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.