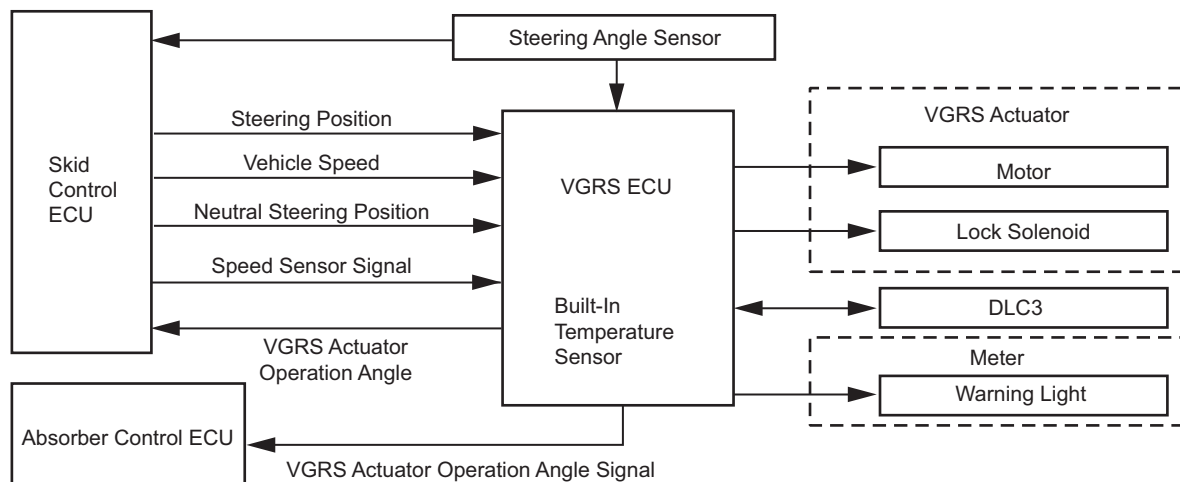


VGRS ECU

- Based on the signals from the steering sensor and the vehicle speed sensor, this ECU calculates the target wheel steering angle in order to control the motor in the VGRS actuator.



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Fail Safe

- If abnormalities occur to a system, Driver will be told by the "CHECK VGRS" display on lighting and the multi information display of master warning. Moreover, VGRS control is suspended and an input axis (motor) is made to lock.

Malfunction and Description of control

Malfunction Item	Description of Control
Steering Angle Sensor Malfunction	Stops the control
DC Motor Malfunction	Stops the control
Motor Drive Circuit	Stops the control
Motor Overheat	The control is stopped; then, the control resumes after the system resumes its normal operation.
Lock Drive Circuit	Stops the control
VGRS ECU Malfunction	Stops the control
Vehicle Speed Signal Malfunction	Stops the control
Skid Control ECU Communication Signal Malfunction	Stops the control
VGRS Actuator Malfunction	The control is stopped; then, the control resumes after the system resumes its normal operation.
VGRS ECU Overheat	The control is stopped; then, the control resumes after the system resumes its normal operation.
PIG Power Source Drop Voltage Malfunction	The control is stopped; then, the control resumes after the system resumes its normal operation.

Diagnosis Function

- In case of a system failure, the warning light illuminates to indicate the items on which control will be stopped. Also, the new diagnostic system features improved serviceability. For details on the diagnostic methods and diagnostic items, refer to the repair manual.