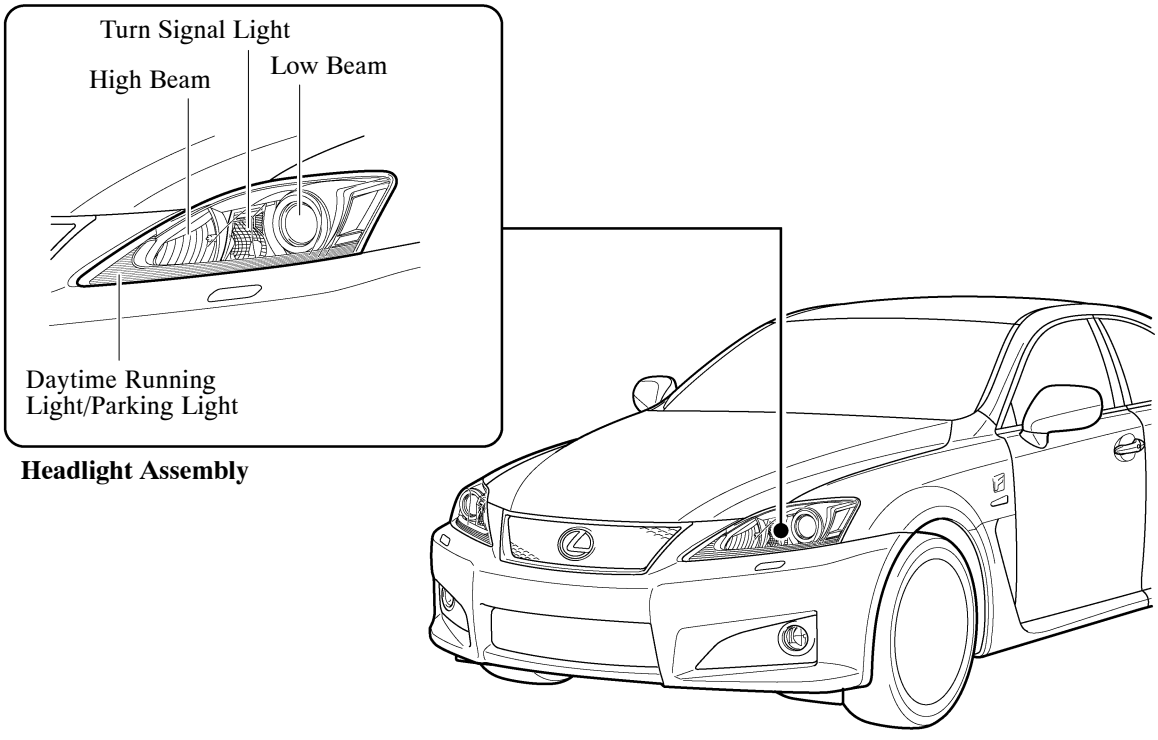
■ LIGHTING

1. Exterior Light

The design of the headlights has been changed.



Headlight Assembly

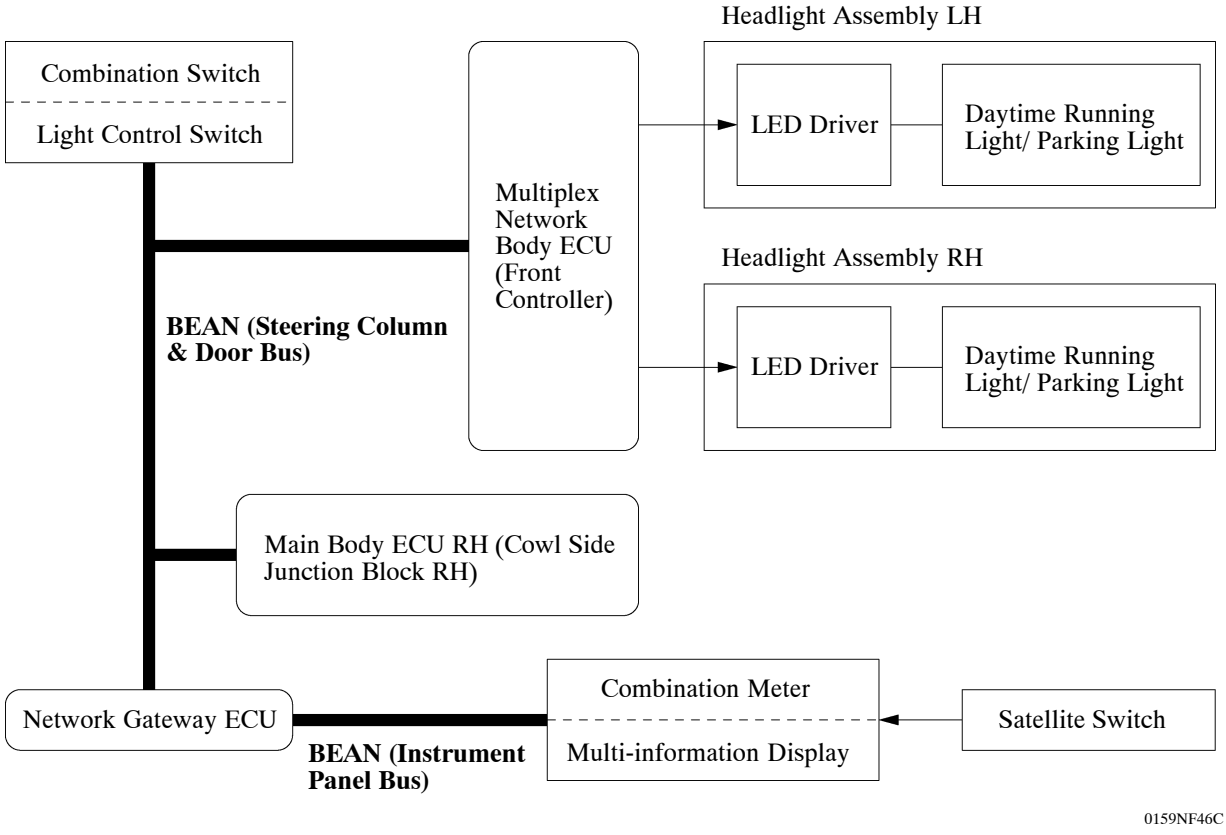
▶ Specification ◀

Light		Type	W
Headlight Unit	High Beam	Halogen Bulb	60
	Low Beam	Discharge Bulb	35
	Turn Signal Light	Wedge Base Bulb (Amber)	21
	Position Light	LED	11.3*1/0.7*2
Side Turn Signal Light		Wedge Base Bulb (Amber)	5
Fog Light		Halogen Bulb	55

*1: Models with Daytime Running Lights
*2: Models without Daytime Running Lights

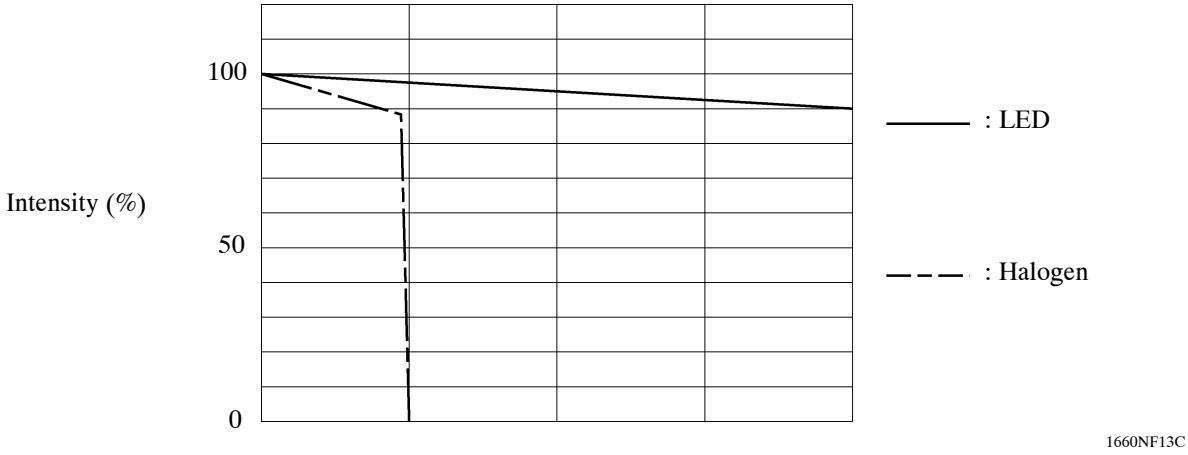
2. Daytime Running Light

System Diagram



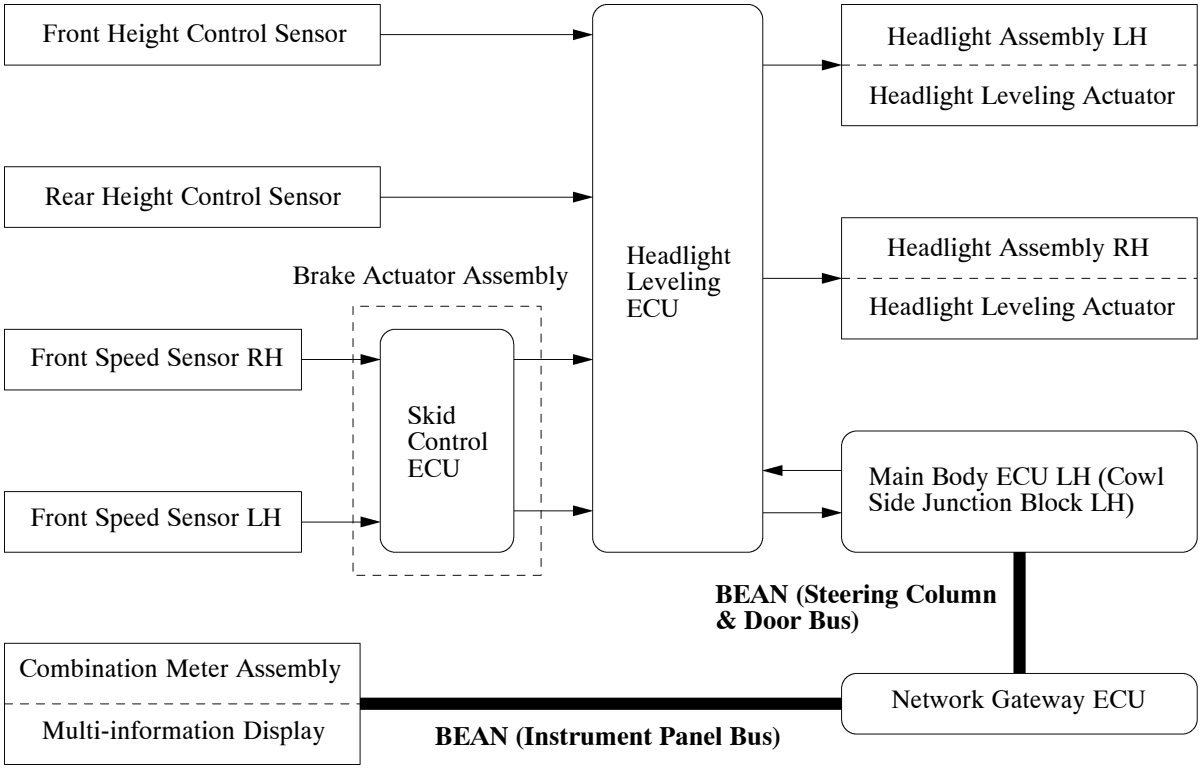
LED Daytime Running Light

- Specially designed Light Emitting Diode (LED) type daytime running lights/position lights are used.
- In addition, the use of LED lights enables reduced power consumption compared to halogen lights.
- Compared to a halogen light, even if an LED light is used for a long time, the reduction of brightness over its lifetime is less. In addition, there is almost no possibility of an LED having an open circuit because of vibration. Together, these attributes realize maintenance-free lighting.
- The daytime running lights can be disabled or re-enabled using the satellite switches.



3. Automatic Headlight Beam Level Control System

System Diagram



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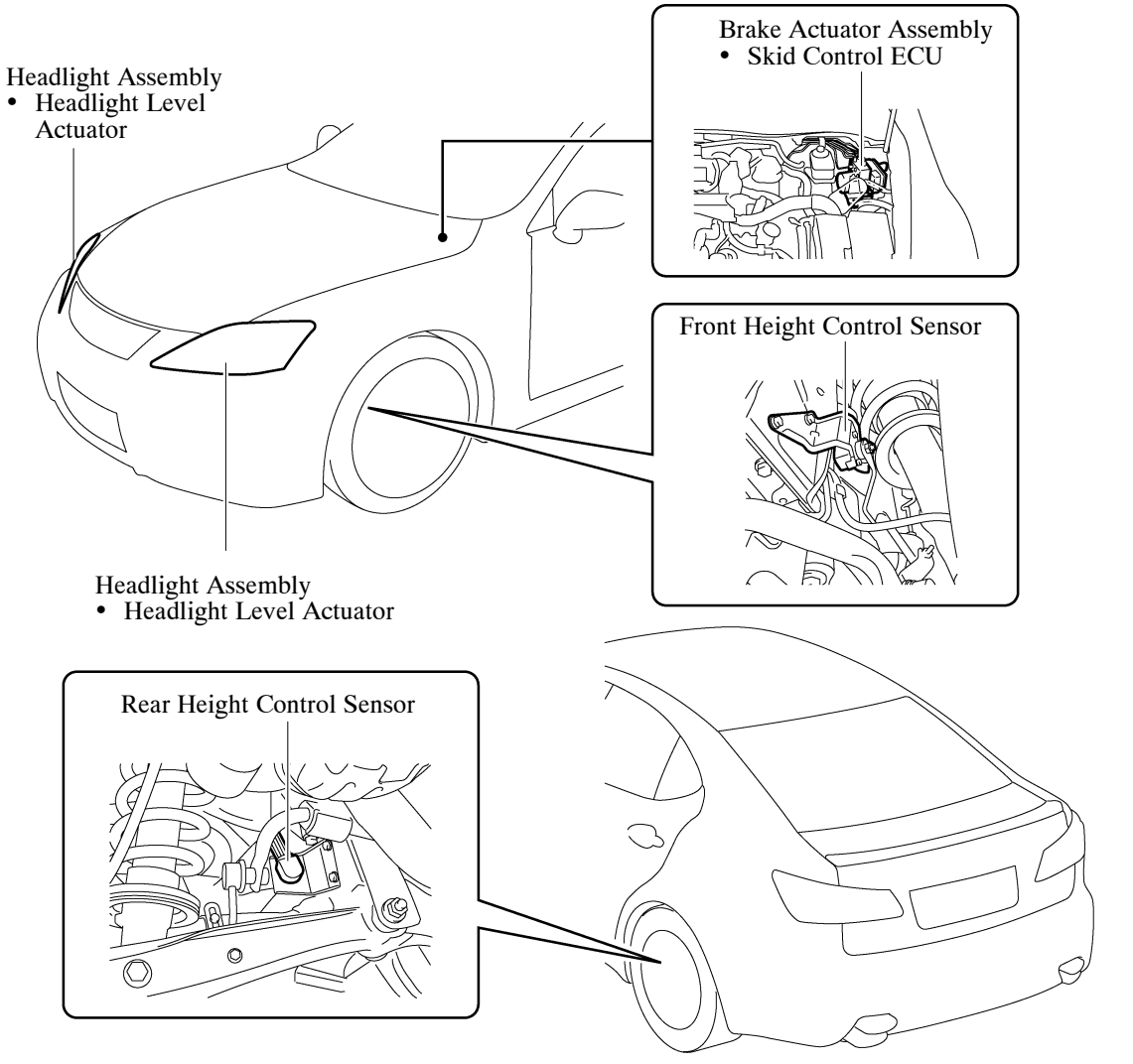
Layout of Main Component



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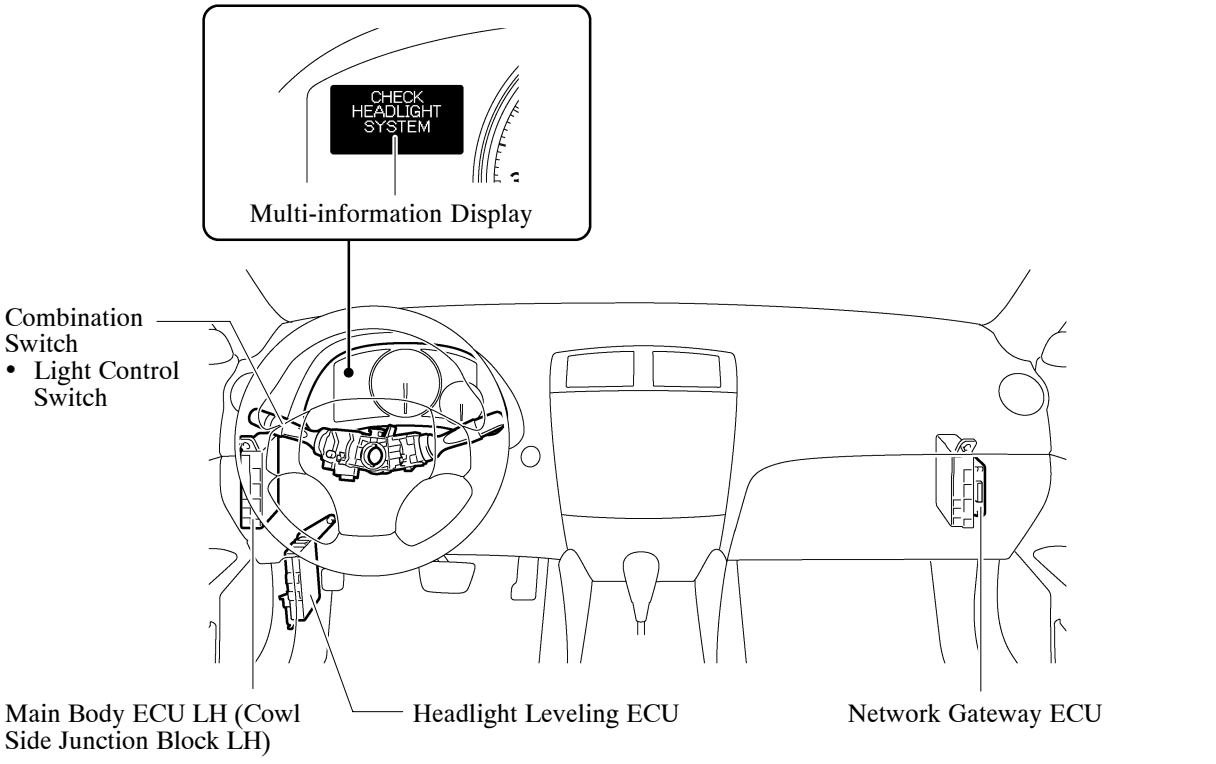

Function and Construction of Main Components

Component		Function and Construction
Headlight Leveling ECU		• Based on the signals (front and rear height control sensors, front RH and LH speed sensors and generator), the headlight leveling ECU detects the changes of the movement of the vehicle. • Based on the detected value, the headlight leveling ECU sends an output control signal to the headlight level actuators.
Headlight Assembly	Headlight Level Actuator	• Based on the signals received from the headlight leveling ECU, each actuator moves the reflector in the headlight to vary the angle of its low beam. • This actuator uses a stepper motor to precisely regulate the angle of the projector.
Height Control Sensors (Front and Rear LH)		Detects the movement of the vehicle.
Brake Actuator Assembly	Skid Control ECU	Transmits the vehicle speed sensor signal to the headlight leveling ECU.
Speed Sensors (Front RH and LH)		Detects the wheel speed and outputs signals.
Combination Meter	Multi-information Display	The multi-information display displays a warning message to inform the driver when the headlight leveling ECU detects a malfunction in this system.
Main Body ECU LH (Cowl Side Junction Block LH)		• Receives a malfunction signal from the headlight leveling ECU and transmits it to the combination meter assembly. • Transmits the generator rotation signal to the headlight leveling ECU.