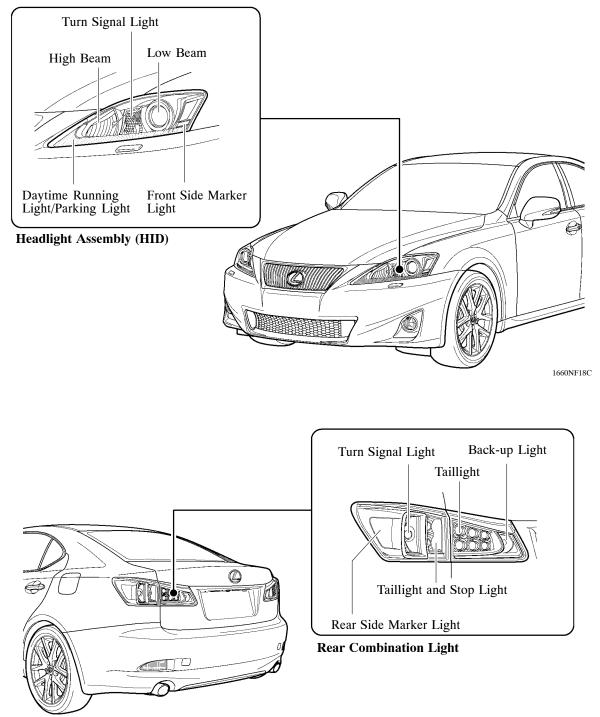
■ LIGHTING

1. Design

The design of the High Intensity Discharge (HID) headlights and rear combination lights has been changed.



1660NF19C

► Specification ◀

Light		Туре	W
Headlight Unit	High Beam	Halogen Bulb	65
	Lever Decer	Halogen Bulb	55
	Low Beam	Discharge Bulb*1	35
	Turn Signal Light	Wedge Base Bulb (Amber)	21
	Parking Light	Wedge Base Bulb (Clear)	5
		LED	11.3*2/0.7*3
	Front Side Marker Light	LED (2)	0.3
Fog Light		Halogen Bulb	51
Rear Combination Light	Taillight and Stop Light	LED (2)	0.3/4.0
	Taillight	LED (18)	0.7
	Turn Signal Light	Wedge Base Bulb (Clear)	21
	Rear Side Marker Light	LED (4)	0.3
	Back-up Light	Wedge Base Bulb (Clear)	16
License Plate Light		LED (1)	0.8

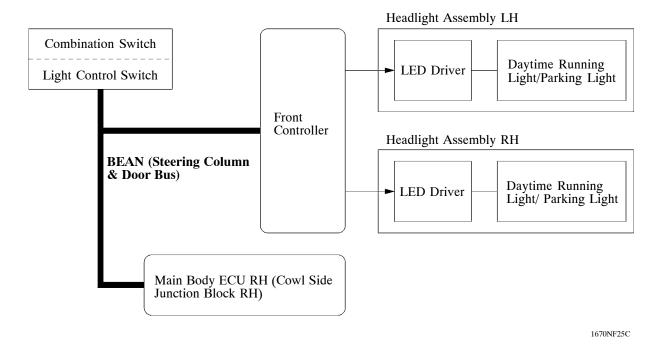
*1: Models with High Intensity Discharge (HID) Headlight System

*2: Models with Daytime Running Lights

*3: Models without Daytime Running Lights

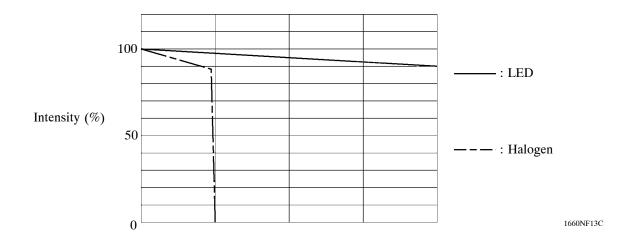
2. Daytime Running Light

System Diagram



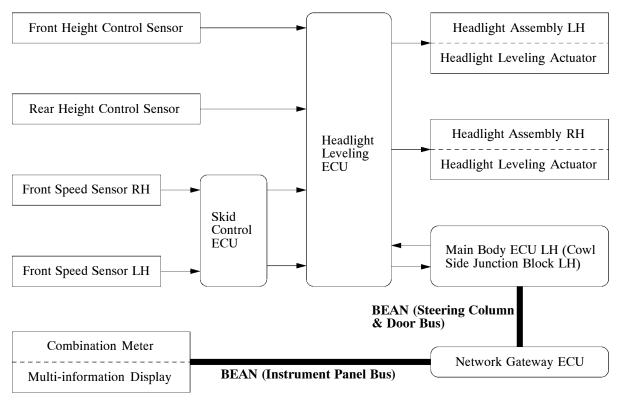
LED Daytime Running Light

- Specially designed Light Emitting Diode (LED) type daytime running lights/parking 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.

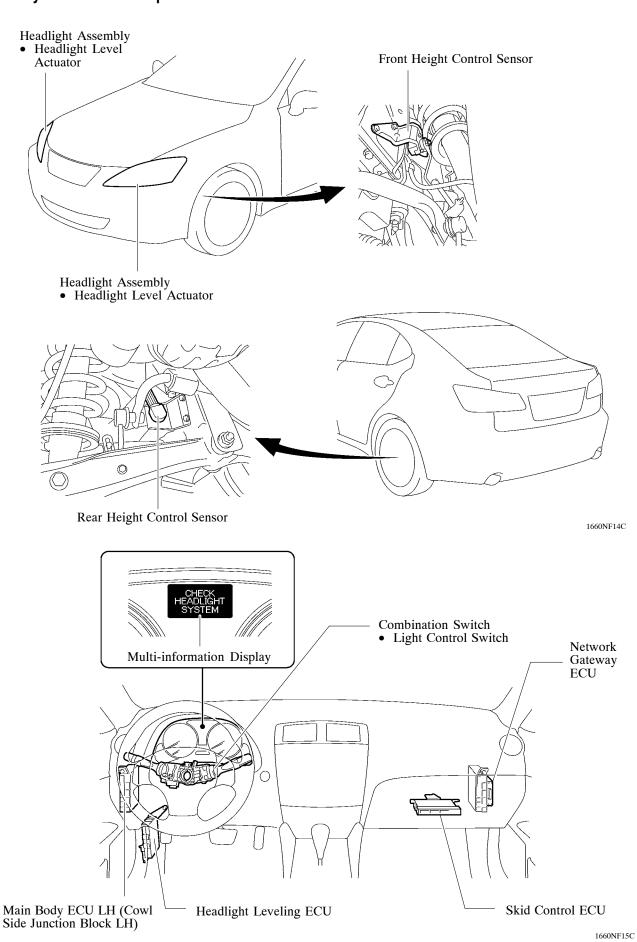


3. Automatic Headlight Beam Level Control System

System Diagram



1660NF11C



Layout of Main Component

Function and Construction of Main Components

Component		Function and Construction	
Headlight Leveling ECU		 Based on the signals (front and rear height control sensors, and front RH and LH speed sensors), 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.	
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)		 The 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 signal to the headlight leveling ECU. 	