

SYSTEM DESCRIPTION

1. LIGHTING SYSTEM

- (a) Illumination control system (Illuminated entry system):

When the doors are unlocked through a key or transmitter operation, or when a door is opened or closed, the illuminated entry system turns on the room light assembly.

- (1) The main body ECU receives the following signal (A).

- Door courtesy switch signal
- Door detection switch signal
- Ignition switch signal

- (2) The main body ECU controls the following signal based on the signals listed in A.

- Illumination operation signal

- (3) The main body ECU controls the on/off and fade-in/fade-out operation of the following parts.

- Room light assembly

- (b) Battery saver system:

When the ignition switch is turned off and the any of the doors is open continuously for 30 minutes, the main body ECU turns the illumination operation signal off. As a result, the room light assembly, taillights, and the headlights turn off.

- (1) The main body ECU receives the following signals (B).

- Door courtesy switch signal
- Ignition switch signal

- (2) The main body ECU controls the following signal based on the signals listed in B (C).

- Illumination operation signal

- (3) The main body ECU controls the illumination period of the following parts based on the signals listed in C.

- Room light assembly
- Headlight (Low)
- Position light (Front and Rear)

- (c) Manual light control system:

This system functions when lights such as the headlights and taillights are illuminated through manual operation of the light control switch.

- (1) The main body ECU receives the following signals (D).

- Light control switch signal
- Headlight dimmer switch signal

- (2) The main body ECU controls the following signals based on the signals listed in D (E).

- HEAD relay operation signal
- TAIL relay operation signal
- Running light relay assembly operation signal

- (3) The main body ECU controls the on/off operation of the following parts based on the signals listed in E.
- Headlight (Low)
 - Headlight (High)
 - Position light (Front and Rear)
- (d) Light auto turn off system (for U. S. A):
With the light control switch in the TAIL or HEAD position, the headlights and taillights go off 30 seconds after the ignition switch is turned off and all the doors are closed. However, when all the doors are locked using the door lock button, ignition key, or LOCK button on the transmitter, the headlights and taillights go off immediately.
- Light auto turn off system (for Canada):
With the light control switch in the TAIL or HEAD position, the headlights and taillights go off immediately after the ignition switch is turned off and the driver door is opened.
- (1) The main body ECU receives the following signals (F).
- Door courtesy switch signal
 - Ignition switch signal
- (2) The main body ECU controls the following signals based on the signals listed in F (G).
- HEAD relay operation signal
 - TAIL relay operation signal
 - Running light relay assembly operation signal
- (3) The main body ECU controls the illumination period of the following parts based on the signals listed in G.
- Headlight (Low)
 - Headlight (High)
 - Position light (Front and Rear)
- (e) Daytime running light system:
This system is directly connected to the low-beam headlights and is designed to automatically activate the daytime running lights in order to increase the visibility of the vehicle.
- (1) The main body ECU receives the following signals (I).
- Ignition switch signal
 - Generator signal
 - Parking brake switch signal
 - Light control switch signal
- (2) The main body ECU controls the following signal based on the signals listed in I.
- Running light relay assembly operation signal
- (3) The main body ECU controls the on/off operation of the following part.
- Headlight (Low)