

## ■ FRONT COMBINATION LIGHT [(E)]

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### Purpose

- The front combination light groups and houses together the parts related to the front exterior lights such as the headlight, daytime running light (DRL), headlight leveling actuator, wiring harnesses, and connectors.
- Energy consumption reduction and maintenance-free design has been achieved with the adoption of LEDs on the headlights LO, HI, and daytime running light (DRL).
- Visibility of road signs positioned higher up has been improved by blurring the cut lines of the headlights between light and dark to the greatest extent possible.
- Long distance visibility of pedestrians and roadside zones and short distance visibility during poor weather conditions such as rain and fog have been improved by expanding the light distribution of the headlights.

### Function

- Each light illuminates or flashes when the light switch, turn switch, or hazard warning switch is operated.

### Structure/Construction

- The front combination light is integrated with the following parts:
  - Headlight HI/LO/daytime running light (DRL) (LED)
  - Headlight leveling actuator
- A projector type headlight has been adopted for the headlight HI/LO/daytime running light (DRL).

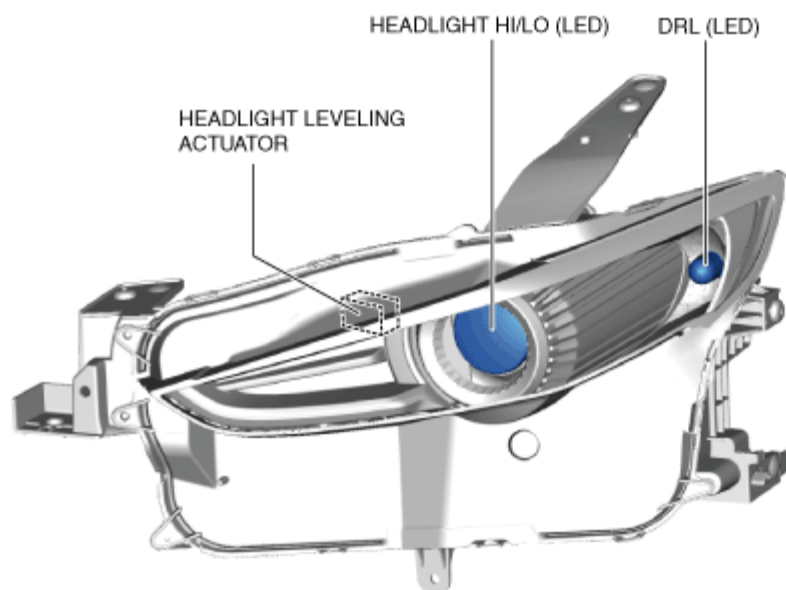
### Note

- Fogging or condensation on the inside of the front combination lights may occur, however, it is a natural phenomenon occurring as a result of a temperature difference between the interior and exterior of the front combination lights and has no effect on the light performance.
- Fogging or condensation occurring as a natural phenomenon will dissipate when the temperature inside the front combination lights rises after the headlights are illuminated and a period of time has elapsed.
- Heat generated by the illumination of the LEDs is absorbed and dispersed by the heat radiation plates installed to the back of the headlight HI/LO reflectors.

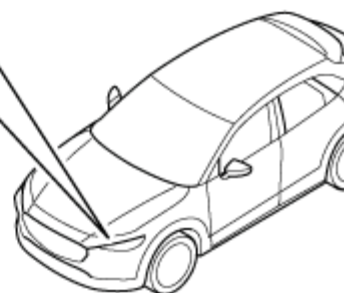
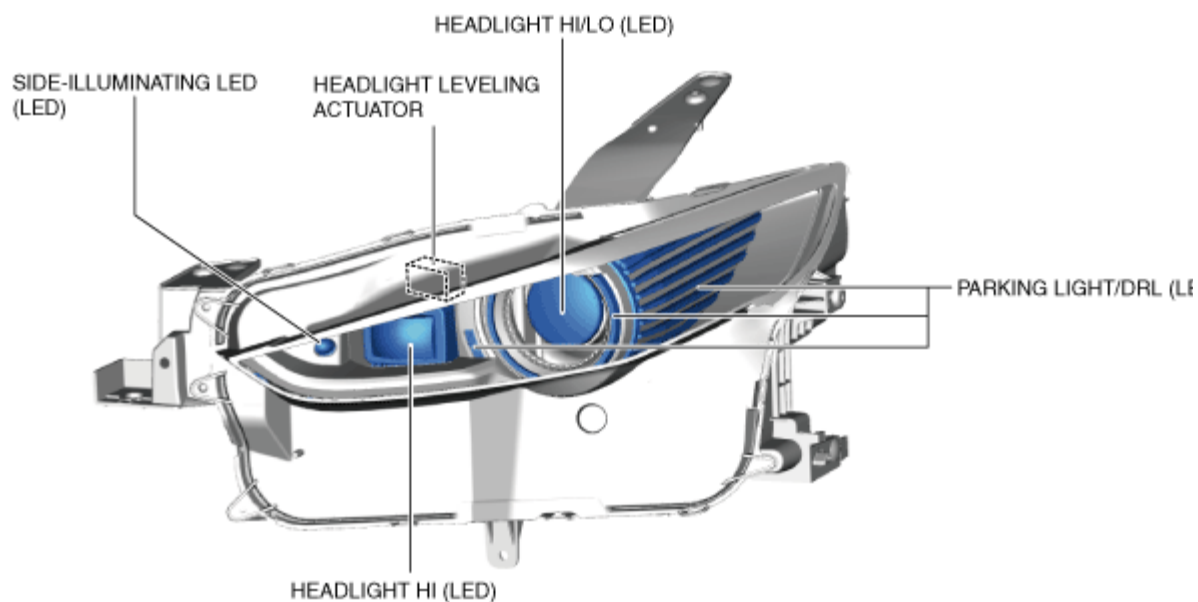
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**FRONT COMBINATION LIGHT (WITH PARKING LIGHT (BULB TYPE))**



**FRONT COMBINATION LIGHT (WITH PARKING LIGHT (LED TYPE))**



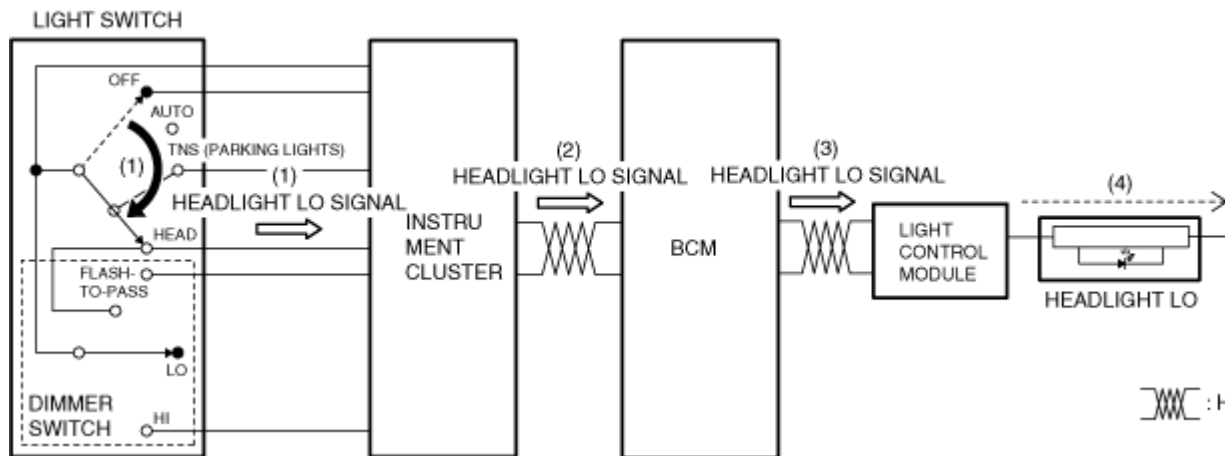
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- The optimized shape of the headlight LO and HI reflectors emits light over a wide area.

## Operation

### Headlight LO

1. When the light switch is in the HEAD position and the dimmer switch is in the LO position, the instrument cluster detects (1) a headlight LO signal.
2. The instrument cluster sends (2) the headlight LO signal to the body control module (BCM) via CAN communication.
3. When the body control module (BCM) receives the headlight LO signal with the ignition switched ON (engine off or on), it sends (3) a headlight LO on request signal to the light control module via CAN communication.
4. When the light control module receives the headlight LO on request signal, it turns the headlights LO on (4).



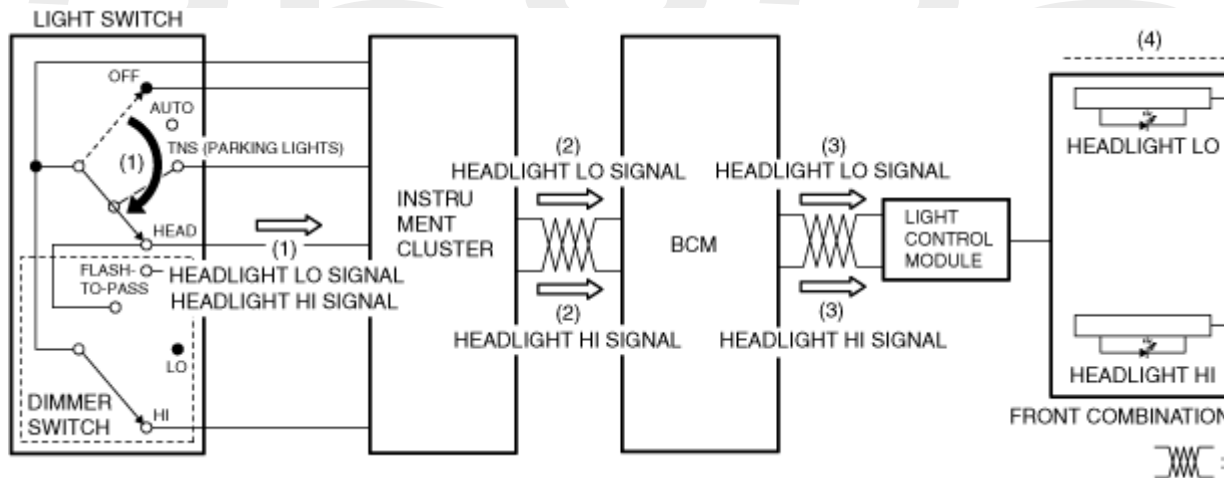
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### Headlight HI

1. When the light switch is in the HEAD position and the dimmer switch is in the HI position, the instrument cluster detects (1) a headlight LO signal and headlight HI signal.
2. The instrument cluster sends (2) the headlight LO signal and headlight HI signal to the body control module (BCM) via CAN communication.

3. When the body control module (BCM) receives the headlight LO signal and headlight HI signal with the ignition switched ON (engine off or on), it sends (3) a headlight LO on request signal and headlight HI on request signal to the light control module via CAN communication.

4. When the light control module receives the headlight LO on request signal and headlight HI on request signal, it turns the headlights LO and headlights HI on (4).



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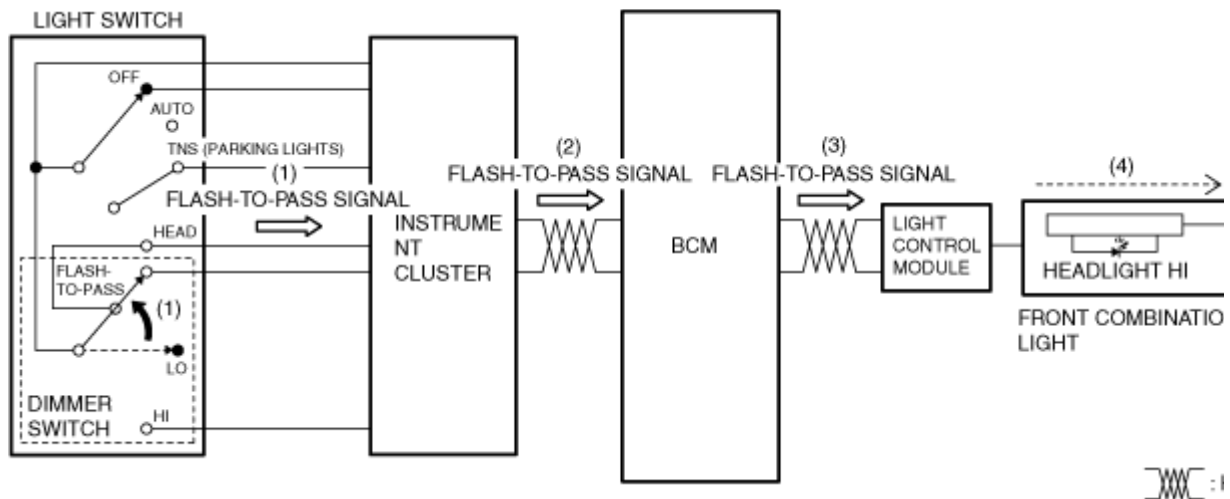
#### Flash-to-pass

1. When the dimmer switch is in the passing position, the instrument cluster detects (1) a passing signal.

2. The instrument cluster sends (2) the passing signal to the body control module (BCM) via CAN communication.

3. When the body control module (BCM) receives the passing signal with the ignition switched ON (engine off or on), it sends (3) a headlight LO on request signal and headlight HI on request signal to the light control module.

4. When the light control module receives the headlight LO on request signal and headlight HI on request signal, it turns the headlights LO and headlights HI on (4).



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Headlight leveling actuator

- Refer to the [HEADLIGHT LEVELING ACTUATOR]. (See HEADLIGHT LEVELING ACTUATOR.)

Daytime running light (DRL) system

- Refer to the [DAYTIME RUNNING LIGHT (DRL) SYSTEM]. (See DAYTIME RUNNING LIGHT (DRL) SYSTEM.)