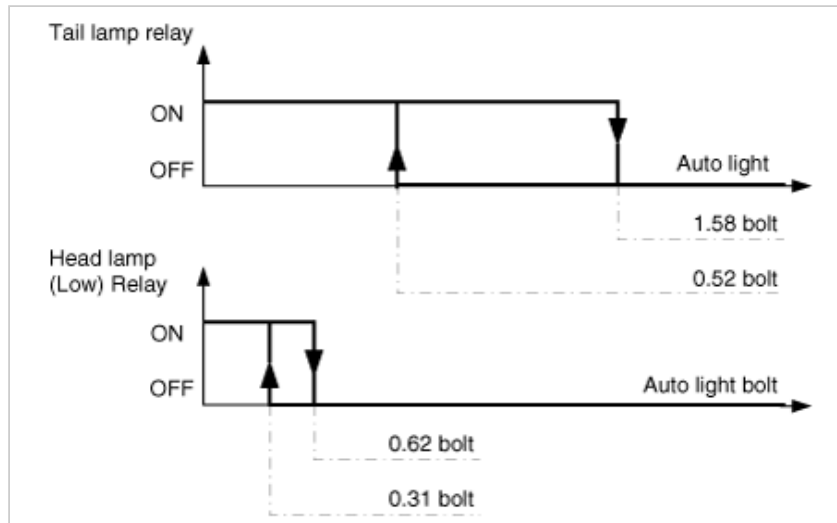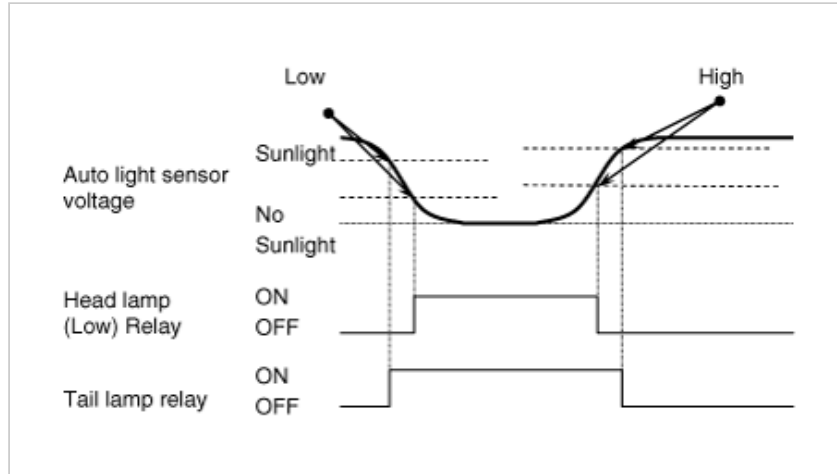## Inspection

Check if the auto light control operates like a timing chart shown below. Tail lamp output and head lamp (Low) output is controlled based on the auto light sensor"s input (illumination intensity) when the Auto Light Switch in Multi-Function Switch is turned ON, and the vehicle is in IGN1 or IGN2 ON Mode. If IGN1 = ON, BCM detects this voltage, and if the voltage exceeds rated voltage, then auto light failure occurs. (below 4V or above 6V)

NOTICE

Failure Occurrence: If auto light failure occurs, the head lamp must be turned ON regardless of sun light level. This is to prevent the head lamp from being turned OFF in case of auto light failure during night time.
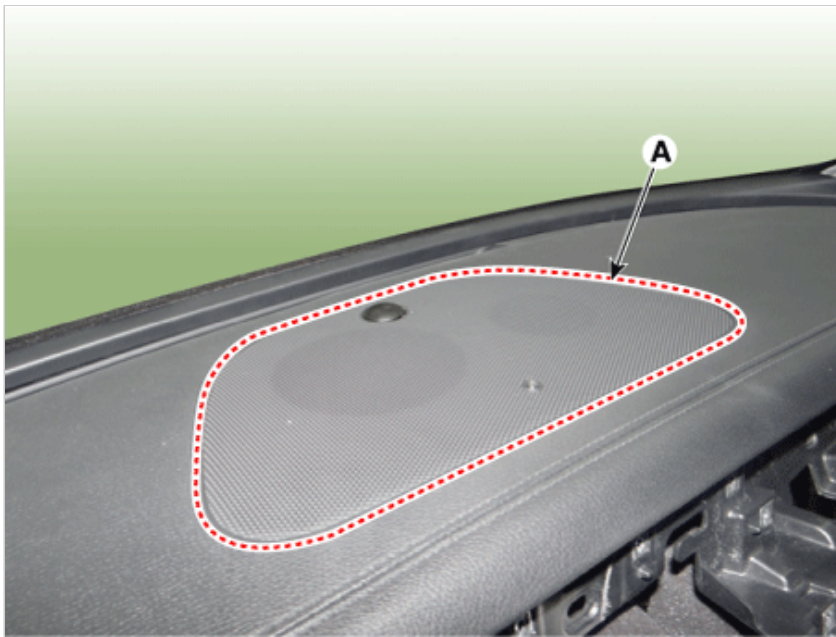

In the state of IGN1 ON, when multi function switch module detects auto light switch on, tail lamp relay output and head lamp low relay output are controlled according to auto light sensor"s input.The auto light control doesn"t work if the pin sunlight supply (5V regulated power from Ignition 1 power to sunlight sensor) is in short circuit with the ground.If IGN1 ON, The BCM monitors the range of this supply and raises up a failure as soon as the supply's voltage is out of range. Then this failure occurs and as long as this is present, the head lamp must be turned on without taking care about the sunlight level provided by the sensor.This is designed to prevent any head lamp cut off when the failure occurs during the night.
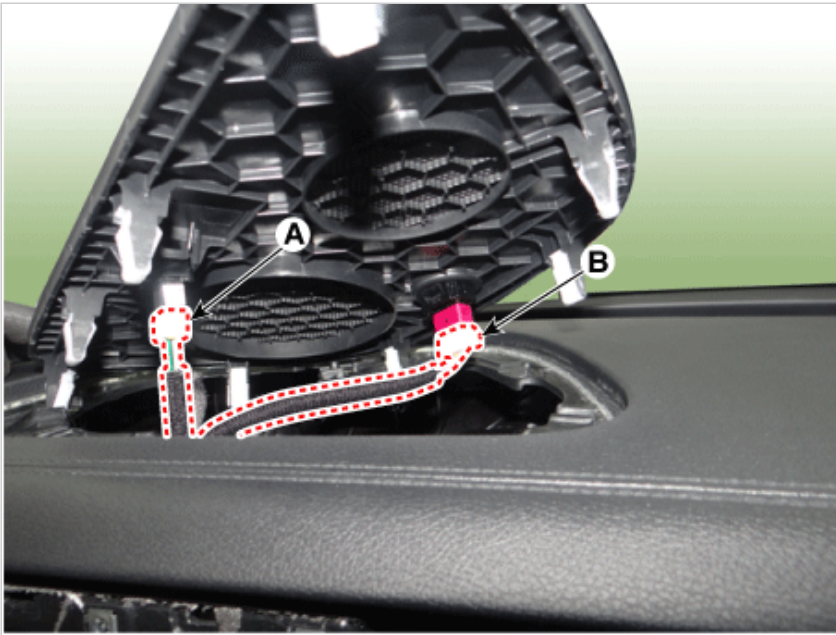
Removal

1. Disconnect the negative (-) battery terminal.

2. Using a scraper or remover, remove the crash pad center speaker grille (A).

3. Disconnect the security connector (A) and auto light & Photo sensor connector (B).

4. Remove the auto light sensor (A) after releasing the fixed hooks.

Installation

1. Install the auto light sensor.

2. Connect the security connector and auto light & photo sensor connector.

3. Install the center speaker grille.

4. Connect the negative (-) battery terminal.

> **NOTICE**
>
> Make sure the connector is plugged in properly.