

AUTO LIGHT SYSTEM OPERATION

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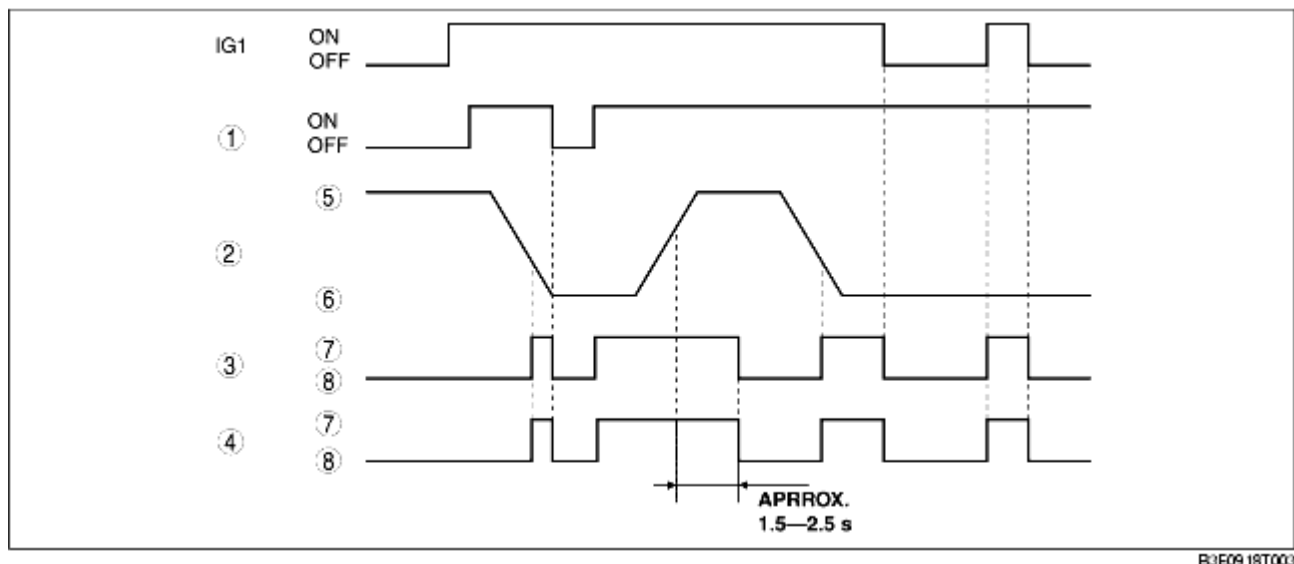
Operation

Illumination condition

- When the ignition switch is turned to the ACC or ON position and the light switch is in the AUTO position, the headlight and tail number side lights (TNS) illuminate under the following condition:
 - The forward and upward illumination level sensors detect **approx. 2000 lux or less**.

Lights off condition

- When the light switch is in the AUTO position, the headlights and TNS turn off under the following conditions:
 - The forward and upward illumination level sensors detect **approx. 4000 lux or more for approx. 1.5-2.5 s**.
 - The ignition switch is off.
 - The light switch is in the OFF position.

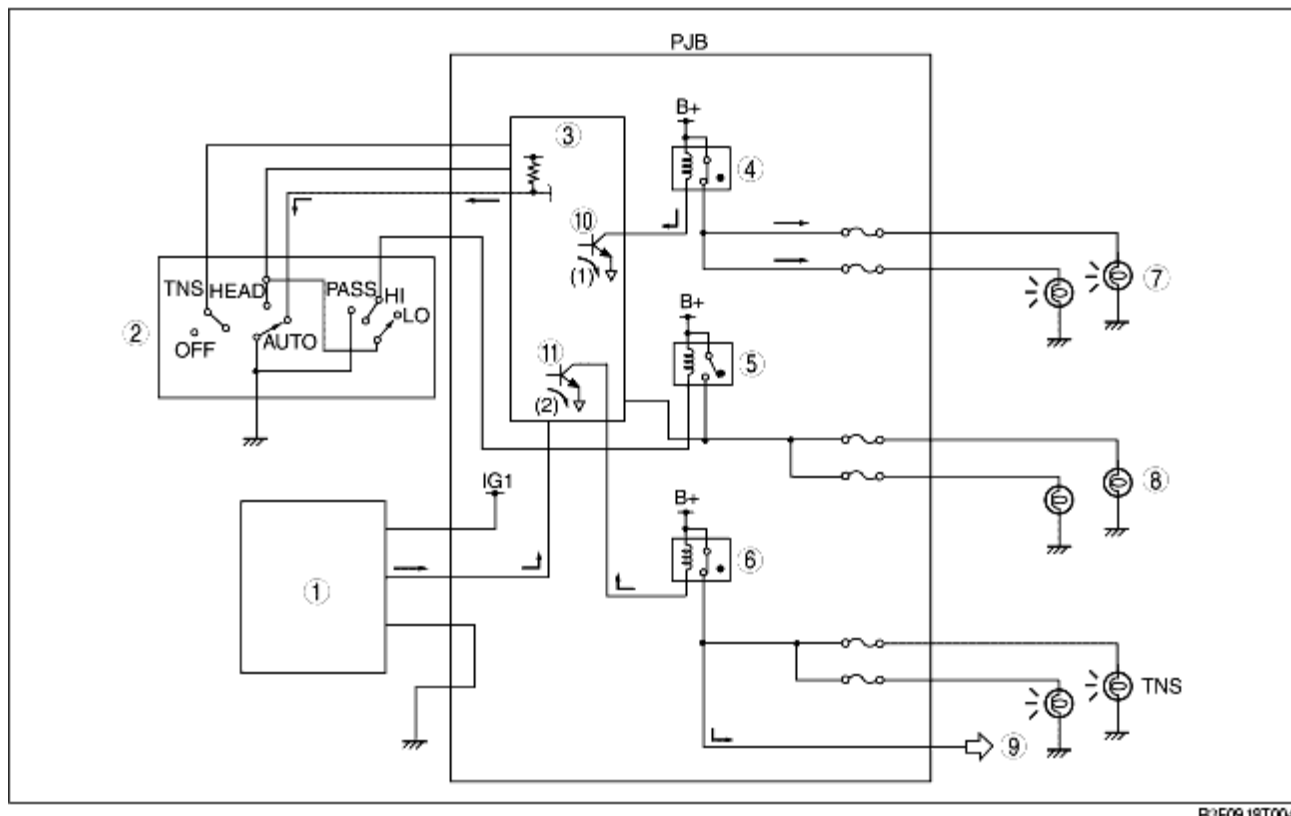


B3E09 18T003

1	Light switch (AUTO position)
2	Illumination level
3	Headlight
4	TNS and illumination lights
5	Bright
6	Dark
7	Illuminated
8	Not illuminated

Illumination operation

1. When the light switch is in the AUTO position the illumination sensors in the auto light sensor (installed in the windshield) detect the illumination level above and in front of the vehicle.
2. If the upward or forward illumination sensors detect **approx. 2000 lux or less** in front of and above the vehicle, a headlight illumination control signal is sent to the PJB.
3. The microcomputer in the PJB receives the control signal and sends currents (1) and (2) to transistors A and B respectively, causing the transistors to turn on.
4. When transistors A and B turn on, the headlight LO and TNS relays also turn on. At the same time, the headlights (low-beam) and TNS illuminate.



1	Auto light sensor
2	Light switch
3	Microcomputer
4	Headlight LO relay
5	Headlight HI relay
6	TNS relay
7	Headlight (low-beam)
8	Headlight (high-beam)
9	To illumination light
10	Transistor A
11	Transistor B

Lights off operation

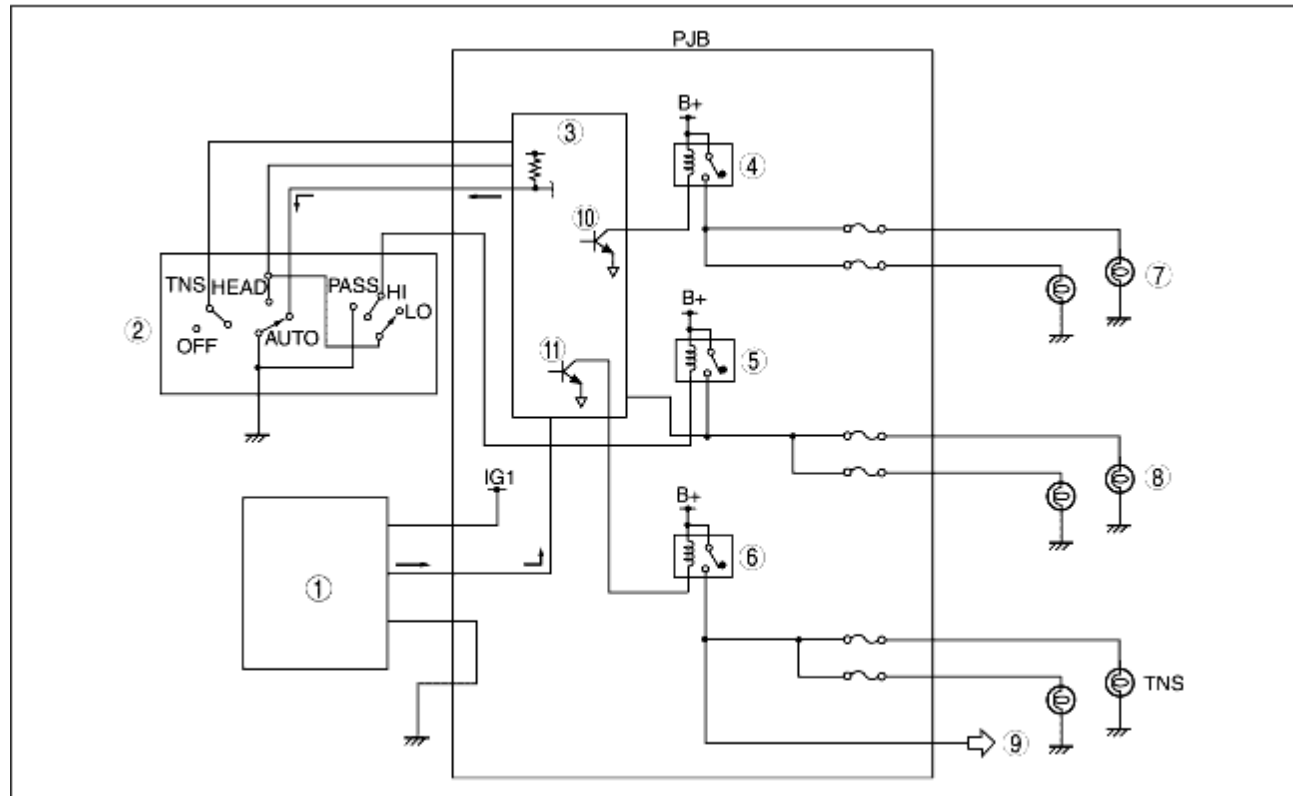
1. When the light switch is in the AUTO position the illumination level sensors in the auto light sensor

(installed in the windshield) detect the illumination level above and in front of the vehicle.

2. If the upward and forward illumination level sensor detect **approx. 4000 lux or more for 1.5-2.5 s** in front of and above the vehicle, a headlight off control signal is sent to the PJB.

3. The microcomputer in the PJB receives the control signal and turns off the currents to transistors A and B, causing the headlight (low-beam) and TNS relays to also turn off.

4. When the headlight LO and TNS relays turn off, the headlights (low-beam) and TNS also turn off.



B3E09 18T005

1	Auto light sensor
2	Light switch
3	Microcomputer
4	Headlight LO relay
5	Headlight HI relay
6	TNS relay
7	Headlight (low-beam)
8	Headlight (high-beam)
9	To illumination light
10	Transistor A
11	Transistor B