

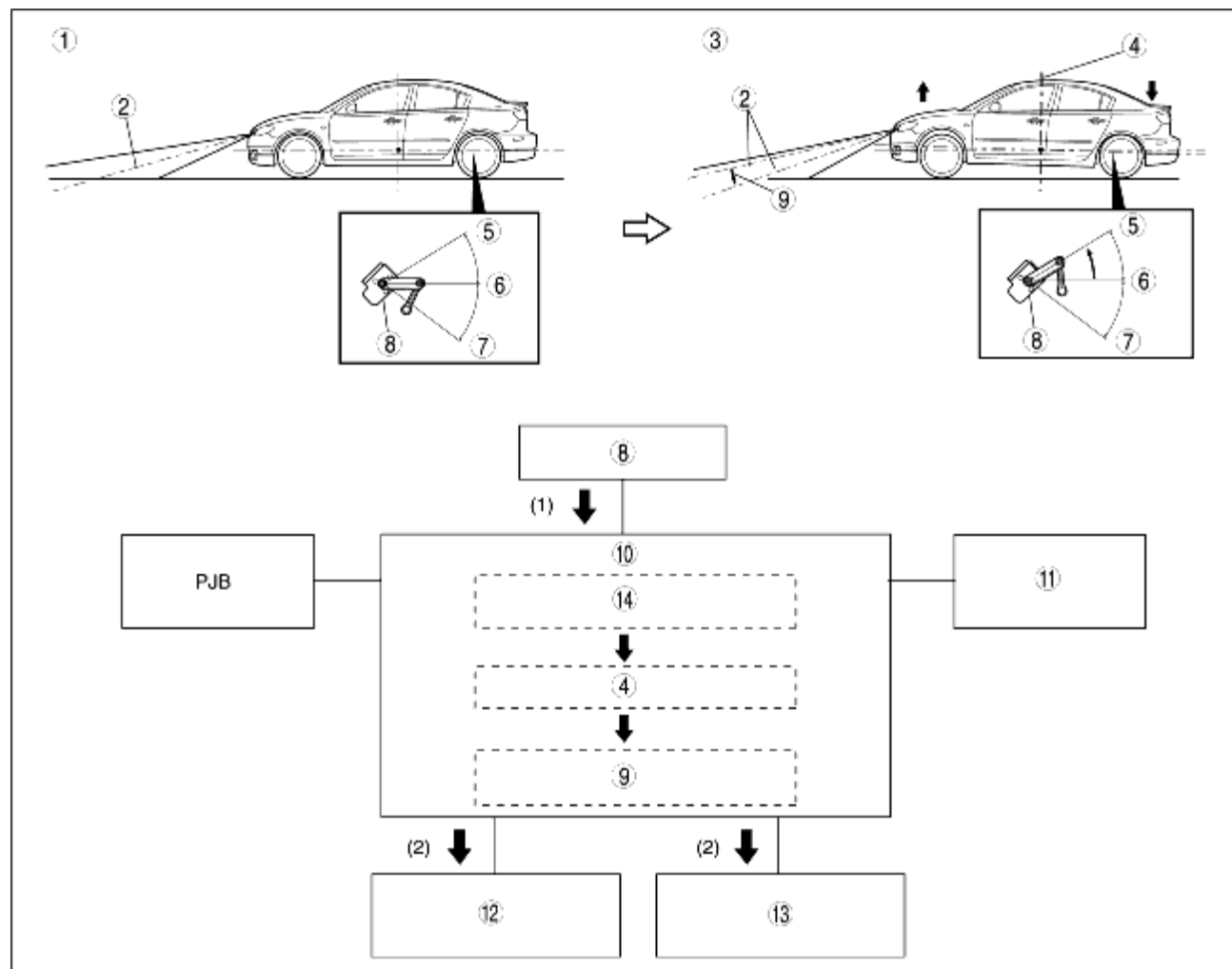
HEADLIGHT AUTO LEVELING SYSTEM OPERATION

B3E000001052T20

Varying Passenger and Cargo Conditions Operation

1. According to the fluctuation of the suspension, the auto leveling sensor installed in the rear of the vehicle send a signal to the auto leveling control module.

2. When the signal input from the auto leveling sensor is detected, the auto leveling control module verifies the vehicle attitude, then calculates the amount of optical axis adjustment. The auto leveling control module compares the actual and required positions of the reflector, then inputs a command signal to the headlight leveling actuator.



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1	Zero setting
2	Optical axis
3	Large passenger or cargo weight
4	Vehicle attitude
5	Low

6	Zero reference
7	High
8	Auto leveling sensor
9	Optical axis adjustment amount
10	Auto leveling control module
11	Instrument cluster
12	Headlight leveling actuator (LH)
13	Headlight leveling actuator (RH)
14	Voltage signals

Operation When Driving

1. When the auto leveling control module detects the vehicle is moving at a constant vehicle speed between **30-180 km/h** for **3 s** continuously while the headlights are on, the average value of the vehicle attitude during the period is calculated and the optical axis is adjusted. (The adjustment control is operated only once per each period of driving.)

Note

- When the ignition switch is turned to the ON position, it is normal to hear the headlight leveling actuator operating for a few seconds, as it verifies system operating conditions.