

# AUTO LEVELING CONTROL MODULE FUNCTION

B3E000001052T21

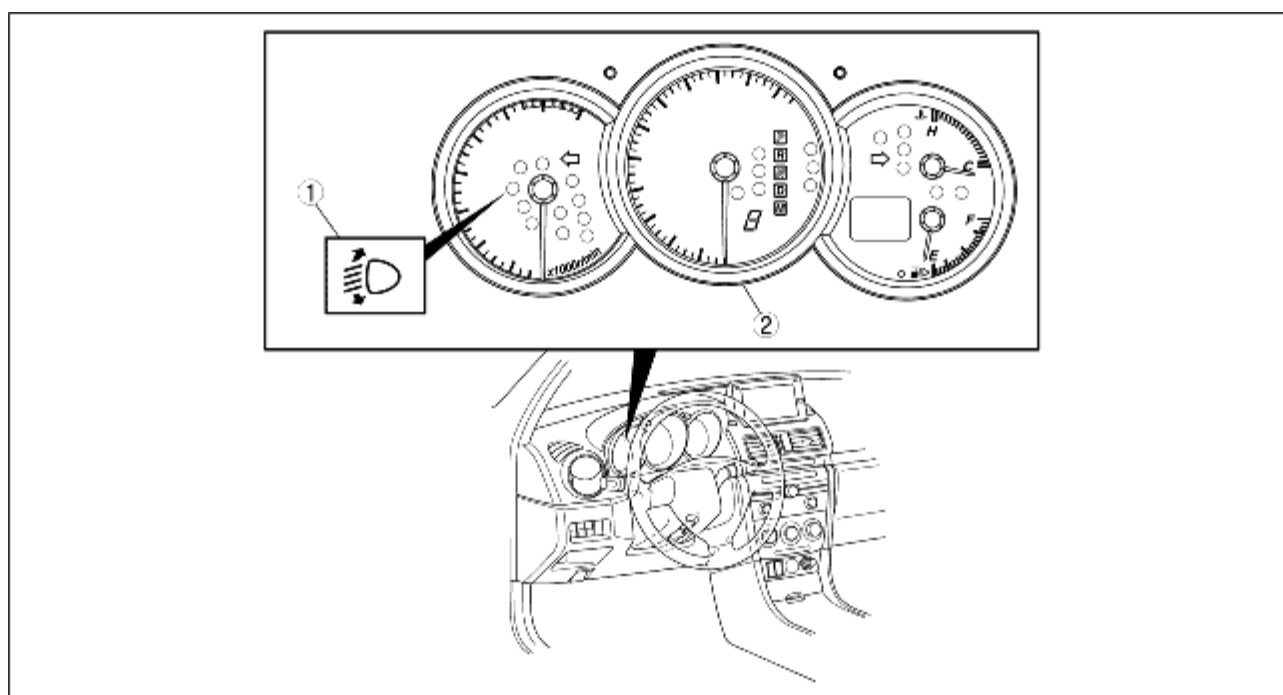
- In order to prevent blinding from oncoming traffic and to improve visibility, the auto leveling control module automatically controls the optical axis direction for optimal illumination based on signals input from the PJB and the auto leveling sensor.
- If an error signal from the auto leveling sensor or excessive power supply voltage is detected, the auto leveling warning light is illuminated to warn the driver of a malfunction.

## Fail-safe Function

- The fail-safe function operates when the auto leveling control module detects a malfunction. It also warns the driver of a malfunction by illuminating the indicator light as shown in the fail-safe function table.
- The fail-safe function controls each part as shown on the fail-safe function table.

### Note

- When the ignition switch is turned to the ON position, the auto leveling control module checks the auto leveling warning light bulb and illuminates the bulb for **3 s** to indicate that there is no malfunction.



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1	Auto leveling warning light
2	Instrument cluster

## Fail-safe Function Table

Item	Test condition	Fail-safe function	Indicator light	Cancel condition
	Signal voltage			

Auto leveling sensor	Signal malfunction	of <b>4.0 V or less</b> detected <b>10 times or more</b> within <b>5 s</b>	Returns headlights to the initial set position if they are pointing higher than initial set position. Fixes them in position where the malfunction is determined if pointing lower than the initial set position.	Illuminated*1	Continuous normal operation for <b>5 s</b> or ignition switch is turned off and then to the ON position again.
	Power supply malfunction	Power supply voltage of <b>0.25 V or less</b> , or <b>4.75 V or more</b> detected <b>10 times or more</b> within <b>5 s</b>			
Auto leveling control module	Malfunction detected by auto leveling control module		Resets microcomputer in auto leveling control module.	Illuminated	Ignition switch is turned off and then to the ON position again.
PJB	Vehicle speed of <b>180 km/h or more</b> detected		Fixes the optical axis angle at the position where vehicle speed of <b>180 km/h or more</b> detected.	Not illuminated	Vehicle speed of less than <b>180 km/h</b> detected
Battery voltage	Excessive power supply voltage	Battery voltage of <b>18.5 V or more</b> detected	Fixes headlights in position where excessive power supply voltage was determined.	Illuminated	When battery voltage of <b>17.5 V or less</b> is detected, or ignition switch is turned off and then to the ON position again.

\*1 : Indicator light illuminates only when either malfunction condition is detected two consecutive times.