

HBC INDICATOR LIGHT (GREEN)/HBC WARNING LIGHT (AMBER)

id091800005200

Purpose

HBC indicator light (green)

- The HBC indicator light (green) notifies the driver that the High Beam Control (HBC) system is operating.

HBC warning light (amber)

- The HBC warning light (amber) warns the driver that a malfunction is occurring in the HBC system.

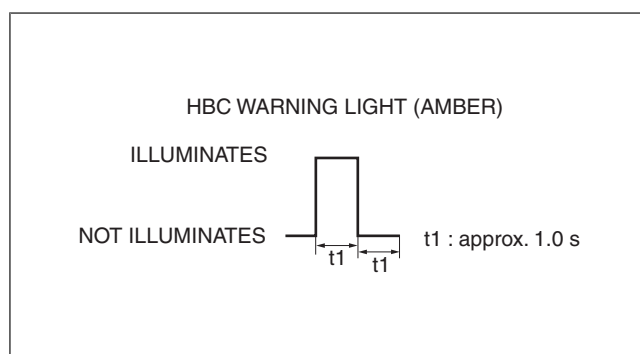
Function

HBC indicator light (green)

- The instrument cluster illuminates the HBC indicator light (green) based on the system conditions display request signal sent via a CAN signal from the FSC.

HBC warning light (amber)

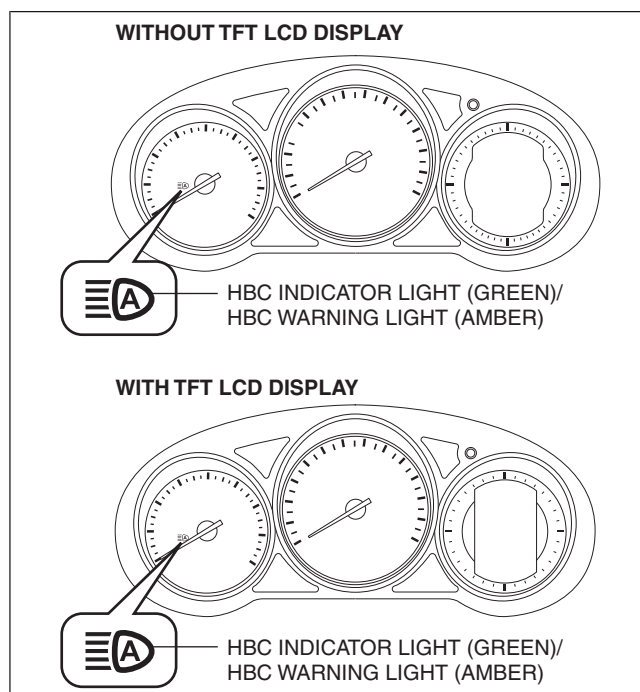
- The instrument cluster illuminates the HBC warning light (amber) based on the system conditions display request signal sent via a CAN signal from the FSC.
- The instrument cluster flashes the HBC warning light (amber) based on the system malfunction display request signal sent via a CAN signal from the FSC.
- The flash pattern of the HBC warning light (amber) is as shown in the table.



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Construction

- The HBC indicator light (green) and HBC warning light (amber) are equipped in the instrument cluster.

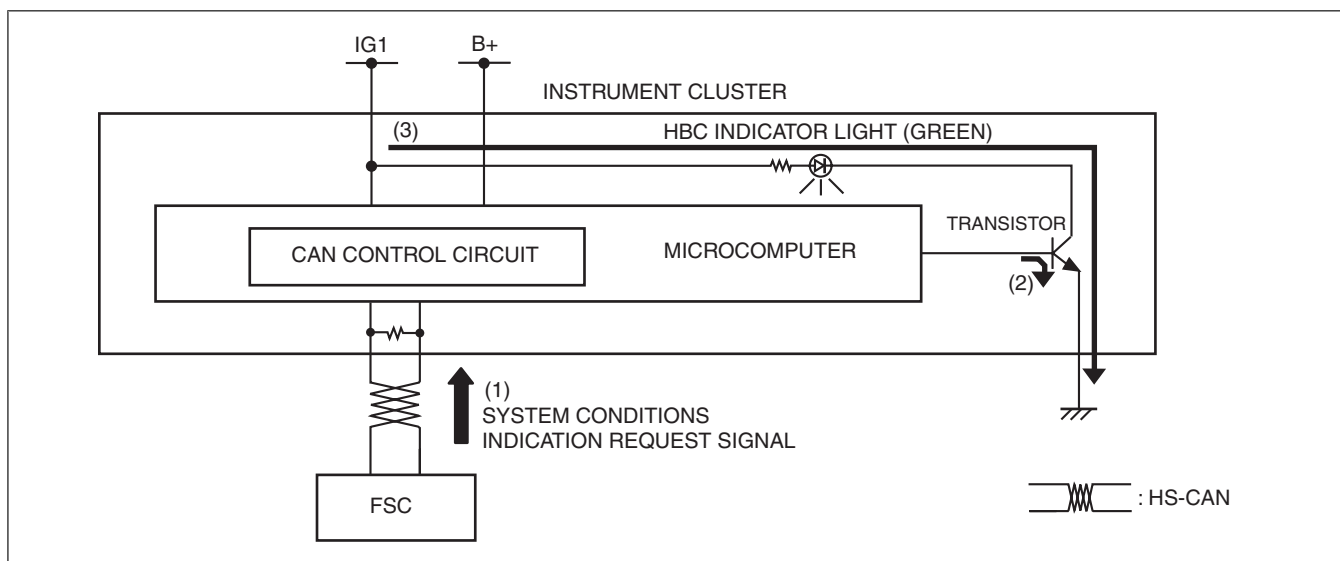


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Operation

HBC indicator light (green)

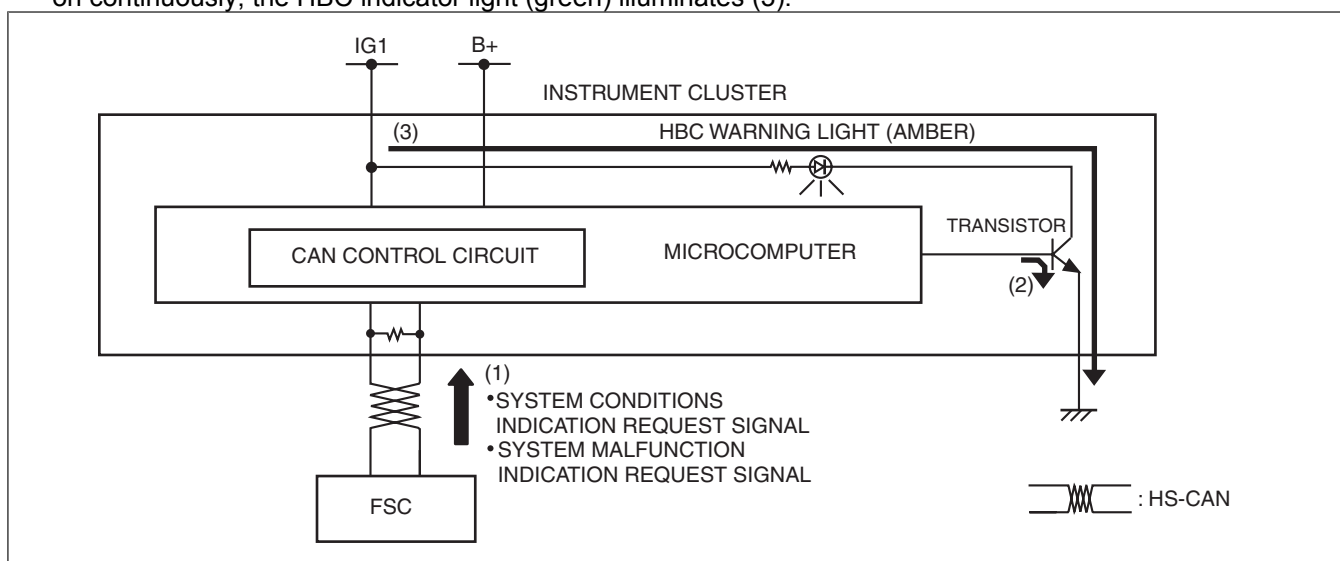
- The instrument cluster receives (1) the system conditions display request signal from the FSC via the CAN signal.
- The instrument cluster turns the transistor on (2) based on the system conditions display request signal.
- When the transistor turns on, a ground circuit with the HBC indicator light (green) is established, and the HBC indicator light (green) illuminates (3).



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HBC warning light (amber)

1. The instrument cluster receives (1) the system conditions display request signal from the FSC or a system malfunction display request signal via a CAN signal.
2. The instrument cluster turns the transistor (2) on intermittently for a system malfunction display request signal, and continuously for a system conditions display request signal.
3. When the transistor is turned on intermittently, the HBC warning light (amber) flashes (3), and when it is turned on continuously, the HBC indicator light (green) illuminates (3).



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Fail-safe

- Function not equipped.