

## SEAT BELT WARNING LIGHT

id092200022900

### Purpose

- The seat belt warning light warns the driver that a seat belt is not fastened.

### Function

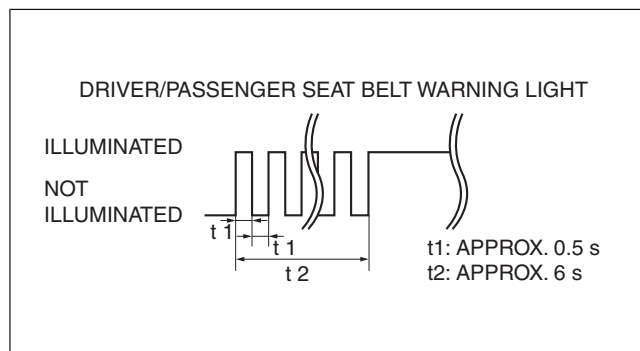
- The instrument cluster flashes/illuminates the seat belt warning light based on the following CAN signals:
  - Vehicle speed signal sent from PCM
  - Driver/passenger buckle switch signal, occupancy detection sensor signal sent from SAS control module
  - Rear seat buckle switch signal sent from rear body control module (RBCM)

### Driver/passenger seat belt warning light display function

- The driver/passenger seat belt warning light has a warning for when the vehicle is stopped, while the vehicle is being driven, and subsequent warnings while the vehicle is being driven.

#### Warning when vehicle is stopped

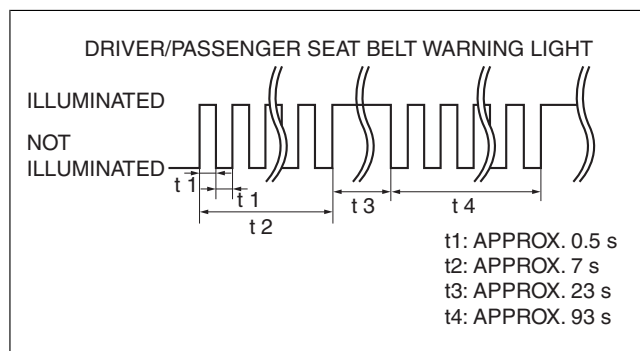
- When all of the following conditions are met, it illuminates
  - Ignition switch ON (engine off or on)
  - Driver/passenger buckle switch on signal (seat belt unfastened) is detected
  - Occupancy sensor on signal (occupant in passenger seat) is detected (passenger seat belt warning light only)
- The driver/passenger seat belt warning flash/illumination pattern is as shown in the figure.



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#### Warning while vehicle is driven

- When all of the following conditions are met, it flashes/illuminates
  - Vehicle speed is approx. 20 km/h {12 mph} or more
  - Driver/passenger buckle switch on signal (seat belt unfastened) is detected
  - Occupancy sensor on signal (occupant in passenger seat) is detected (passenger seat belt warning light only)
- The driver/passenger seat belt warning flash/illumination pattern is as shown in the figure.

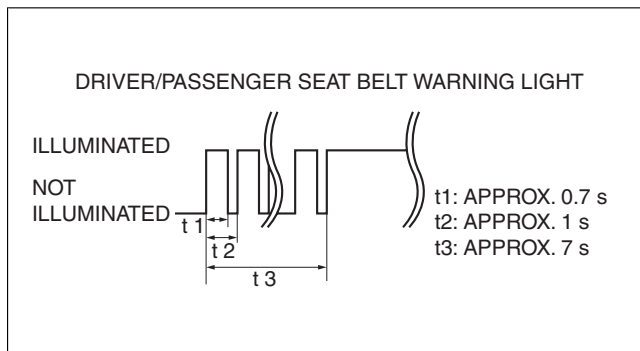


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#### Subsequent warning while vehicle is driven

- When all of the following conditions are met, it flashes/illuminates
  - Vehicle speed is approx. 20 km/h {12 mph} or more
  - Occupancy sensor on signal (occupant in passenger seat) is detected (passenger seat belt warning light only)
  - After warning while vehicle is being driven operates, buckle switch off signal (seat belt fastened) to on signal (seat belt unfastened) is detected

- The driver/passenger seat belt warning flash/illumination pattern is as shown in the figure.



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### Rear seat belt warning light display function

- The rear seat belt warning light illuminates in green to indicate seat belts are fastened, and it illuminates in red to indicate a seat belt is not fastened.
- The rear seat belt warning light has an initial warning and a subsequent warnings.

#### Initial warning

- When the ignition is switched ON (engine off or on), it illuminates for approx. 33 s.

#### Subsequent warning

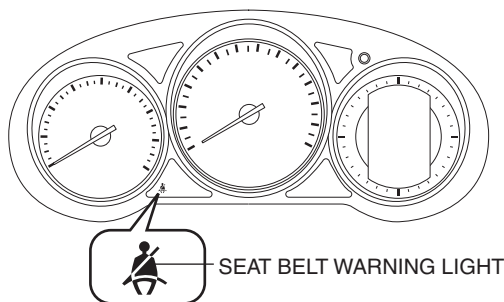
- After the initial warning operates, if a buckle switch signal change (on to off, or off to on), illuminates for approx. 33 s.

### Construction

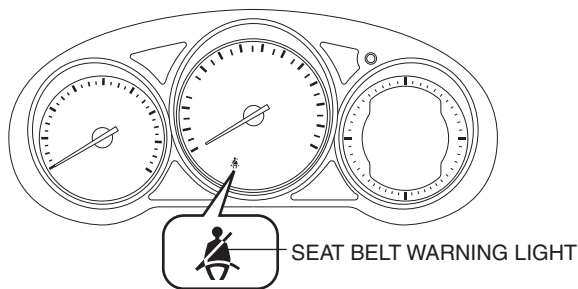
- The microcomputer in the instrument cluster controls the illumination/flashing/turning off of the seat belt warning light based on the driver/passenger buckle switch signal and occupancy sensor signal from the SAS control module, the rear seat buckle switch signal from the rear body control module (RBCM), and the vehicle speed signal from the PCM.
- The driver seat belt warning light is set in the instrument cluster.
- The passenger seat belt warning light and rear seat belt warning light are set in the clock (with manual A/C)/climate control unit (with auto A/C). For details on the passenger seat belt warning light and rear seat belt warning light, refer to CLIMATE CONTROL UNIT [FULL-AUTO AIR CONDITIONER] (with auto A/C)/CLOCK (with manual A/C).

#### DRIVER SEAT BELT WARNING LIGHT

##### WITH TFT LCD DISPLAY

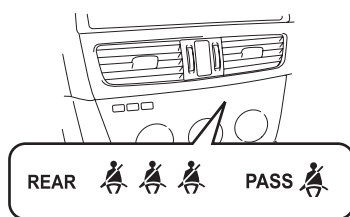


##### WITHOUT TFT LCD DISPLAY

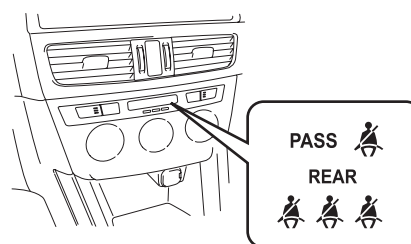


#### PASSENGER SEAT BELT WARNING LIGHT/REAR SEAT BELT WARNING LIGHT

##### WITH FULL AUTO A/C



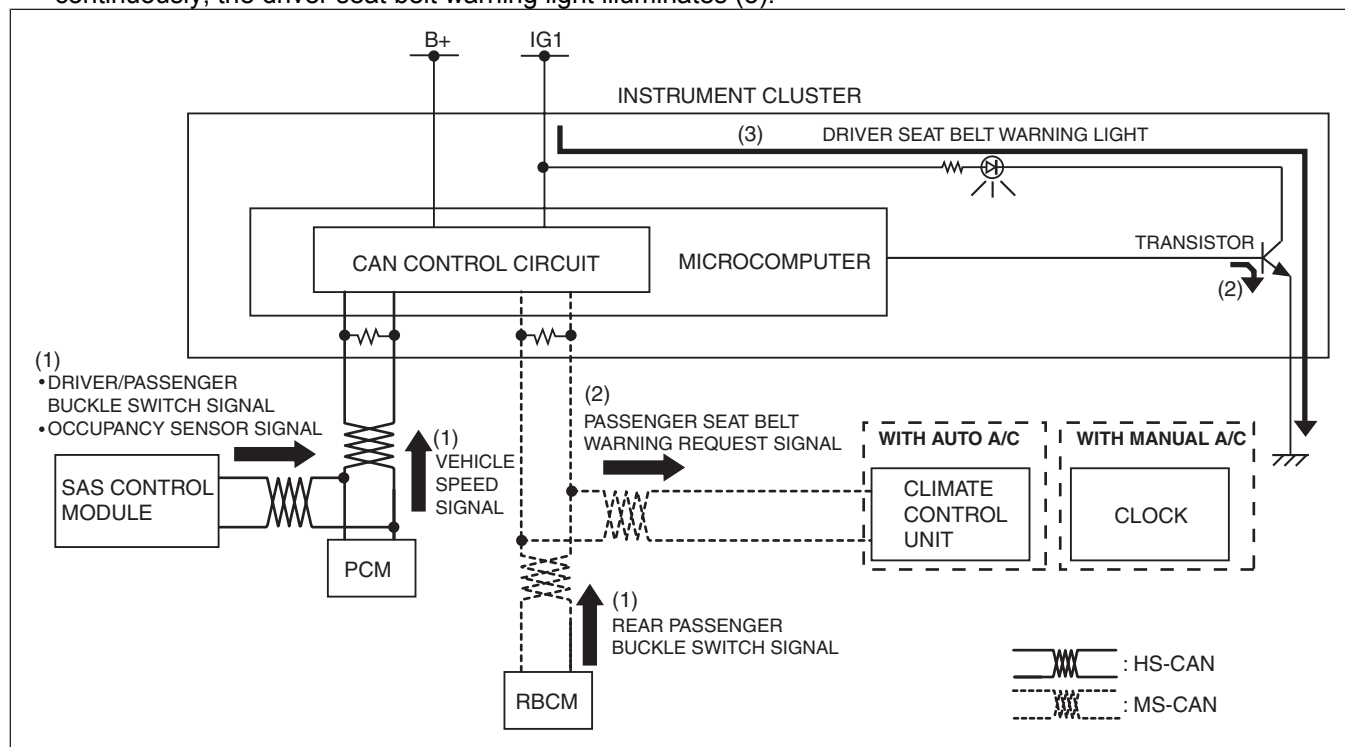
##### WITH MANUAL A/C



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## Operation

1. The instrument cluster receives (1) a vehicle speed signal from the PCM, a driver/passenger seat buckle switch signal and occupancy sensor signal from the SAS control module, and a rear passenger buckle switch signal from the rear body control module (RBCM).
2. The instrument cluster microcomputer turns the transistor on (2) intermittently for flashing and continuously for illumination based on the each signal. In addition, it sends a driver/passenger seat belt warning request signal to the clock (with manual A/C)/climate control unit (with auto A/C).
3. When the transistor turns on intermittently, the driver seat belt warning light flashes (3), when it turns on continuously, the driver seat belt warning light illuminates (3).



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## Fail-safe

- Function not equipped.