

SEAT VENTILATION SYSTEM

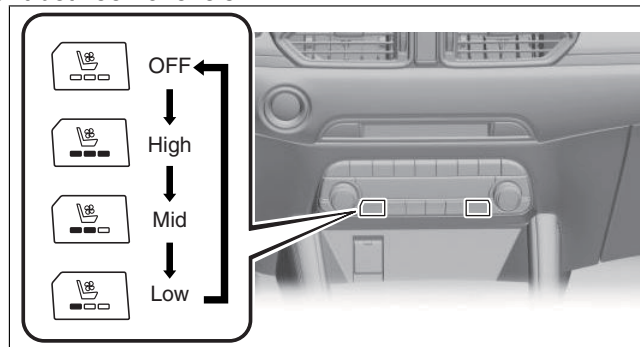
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Purpose

- The seat ventilation system provides a comfortable driving environment by drawing out the hot air from the seat cushion and seat back with the seat ventilation units.

Function

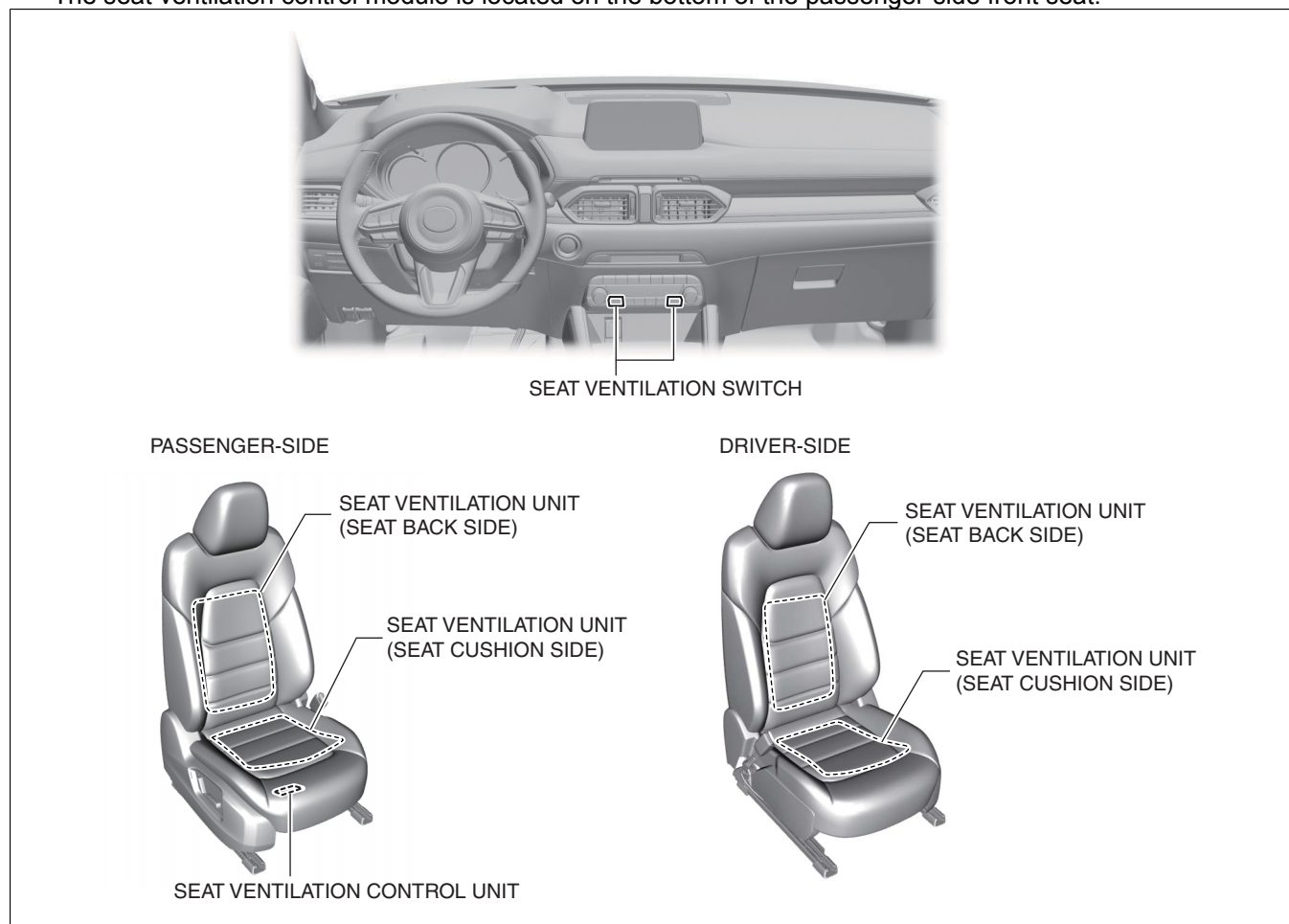
- The seat ventilation control module supplies power to the seat ventilation units built into the seat to draw out the hot air in the seat cushion and seat back.
- The seat ventilation units can adjust the intake air amount between 3 levels.
- The adjustment level for the intake air amount of the seat ventilation units can be switched each time the seat ventilation switch is pressed.



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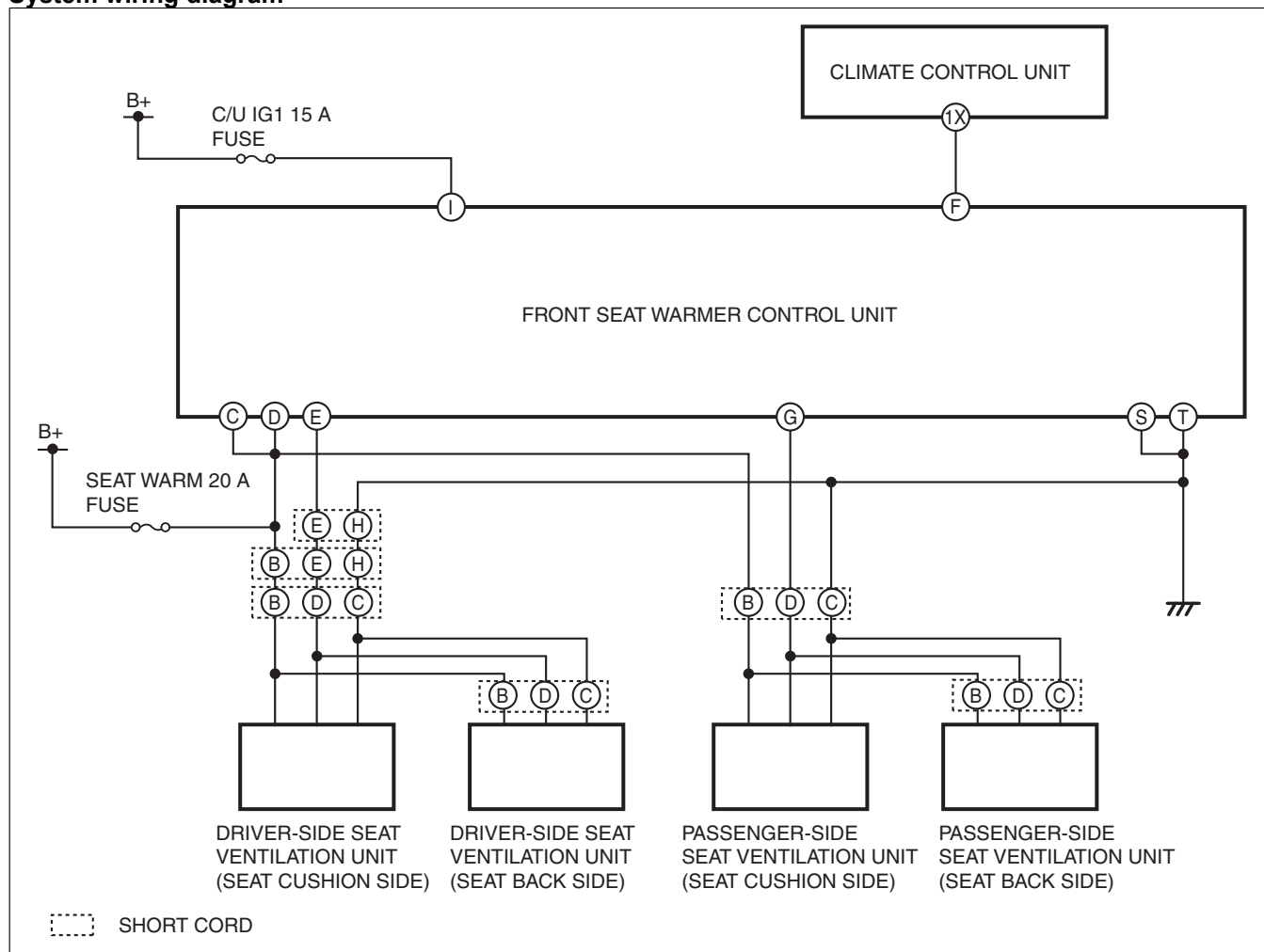
Structural view

- The seat ventilation switch is built into the climate control unit.
- The seat ventilation units are built into the front seat cushion and front seat back.
- The seat ventilation control module is located on the bottom of the passenger-side front seat.



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System wiring diagram



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Operation

Ex.) Driver's seat intake air amount level of ventilation units is set to [HIGH]

1. The climate control unit sends (1) a switch operation signal (intake air amount level [HIGH]) to the seat ventilation control module CPU when the seat ventilation switch (driver's side) operation is detected.
2. When the seat ventilation control module CPU receives the switch operation signal (intake air amount level [HIGH]) from the climate control unit, it sends current to the transistor to turn it on (2).
3. Current flows (3) to the FET by turning the transistor on.
4. The current flows (4) to the relay coil to turn the relay switch on (5).
5. When the relay switch is turned on, a ground circuit is established and the current flows (6) to the driver's seat ventilation units in the driver's seat cushion and seat back.
6. The seat ventilation units start to ventilate (7) by the current sent to the seat ventilation units in the driver's seat cushion and seat back.

Note

- The climate control unit records the intake air amount level (number of indicators turned on) when the ignition is switched from ON (engine off or on) to OFF, and operates at the recorded intake air amount level (number of indicators turned on) when the ignition is switched ON (engine off or on) again.
- If the battery power supply is disconnected, the intake air amount level (number of indicators turned on) recorded by the indicator unit is eliminated.

Fail-safe

- Function not equipped.