

SOLAR RADIATION SENSOR [FULL-AUTO AIR CONDITIONER]

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Purpose

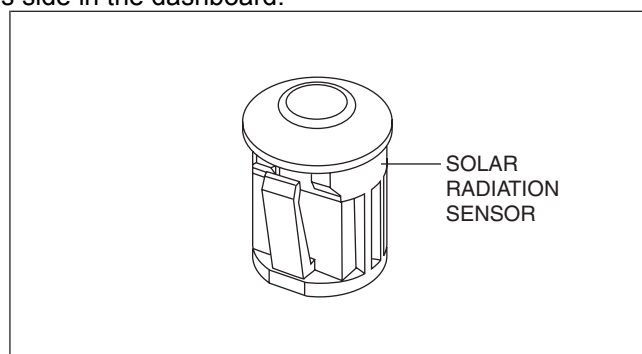
- The solar radiation sensor detects the sunlight intensity emitted to the cabin.

Function

- The solar radiation sensor converts the detected solar radiation amount to an electric signal.

Construction

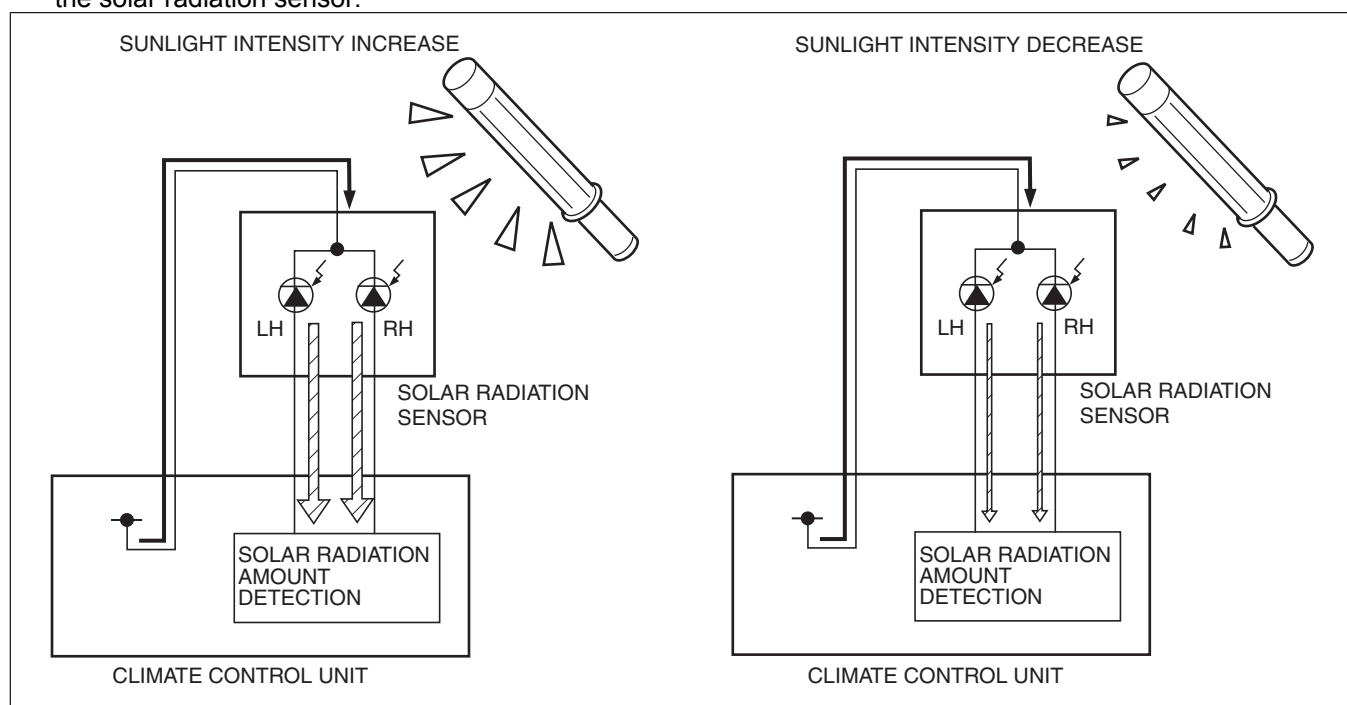
- A photodiode (light receiving diode) has been adopted for the solar radiation sensor.
- The solar radiation sensor is installed to the passenger's side in the dashboard.



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Operation

- The photodiode (light receiving diode) generates electrical current when light shines on the connecting area of the semiconductor. The generated electrical current increases if the sunlight intensity increases, and conversely decreases if the sunlight intensity decreases.
- The climate control unit determines the sunlight intensity according to the amount of electrical current sent from the solar radiation sensor.



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Fail-safe

- Function not equipped.