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## REAR VEHICLE MONITORING CONTROL MODULE

id092200029900

### Purpose

- The rear vehicle monitoring control module detects vehicles approaching from behind and controls the rear vehicle monitoring system.

### Function

- The rear vehicle monitoring control module emits microwaves from the radar integrated with the rear vehicle monitoring control module to detect an oncoming vehicle's position and speed via the reflected microwaves.
- The rear vehicle monitoring control module controls the rear vehicle monitoring system based on the information from the detected approaching vehicle and following CAN signals:

CAN signal sending module	Signal name
DSC HU/CM	Yaw rate signal
Start stop unit	Turn switch signal
Instrument cluster	<ul style="list-style-type: none"><li>• RVM switch operation signal</li><li>• Panel light signal</li></ul>
TCM (ATX)	Shift lever position signal
PCM	<ul style="list-style-type: none"><li>• Vehicle speed signal</li><li>• Gear position signal (MTX)</li></ul>

### RVM warning indicator light brightness level change function

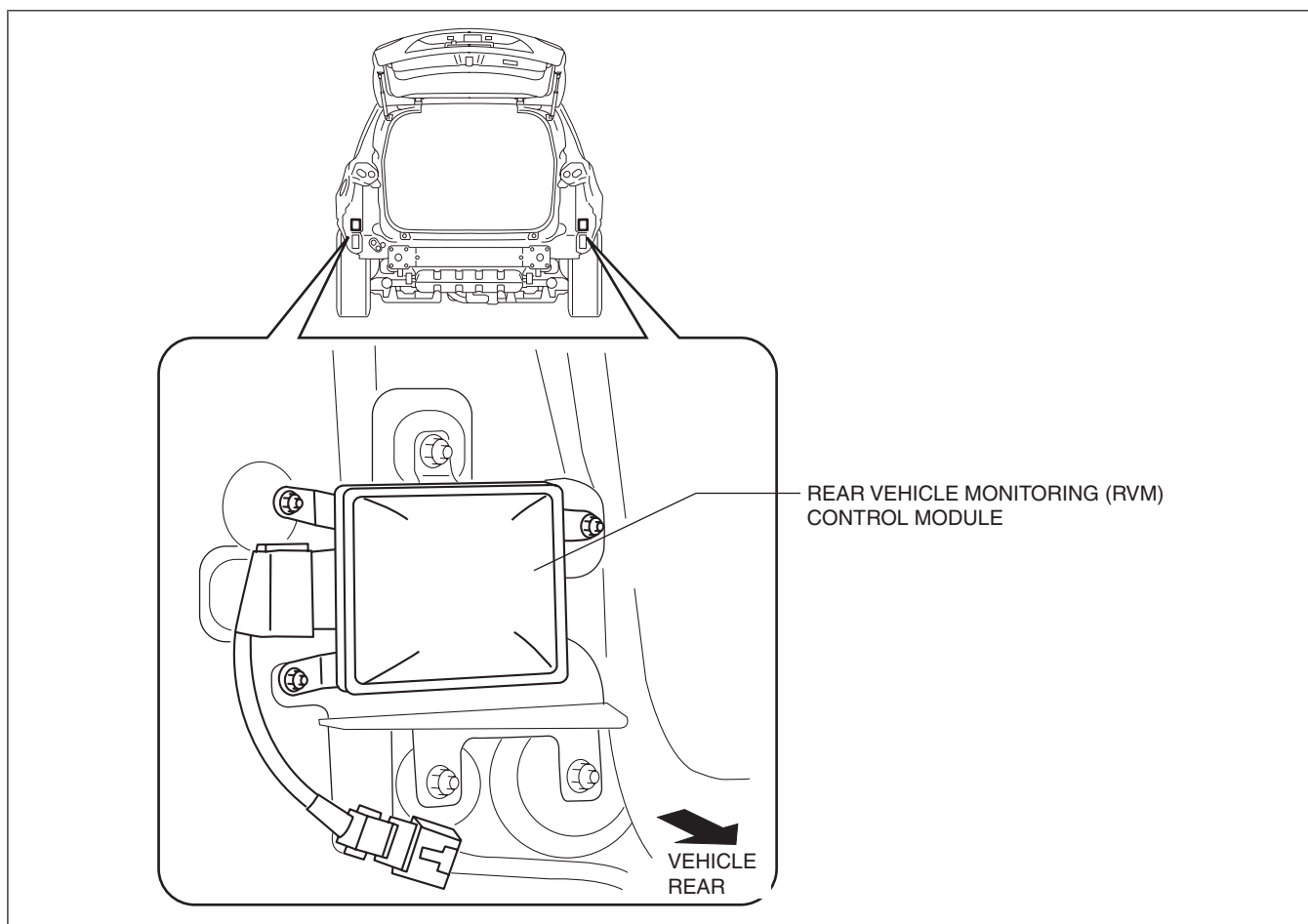
- When the rear vehicle monitoring control module receives the panel light signal from the instrument cluster, it determines that the vehicle is being driven at night or in a dark place and changes the brightness of the RVM warning indicator light.

### On-board diagnostic function

- The rear vehicle monitoring control module detects a system communication error and control module internal malfunction and outputs DTCs. For DTC details, refer to On-board Diagnostic System [rear vehicle monitoring system].

### Construction

- The control module is integrated with the radar which emits microwaves and receives the reflected waves.
- Two control modules are positioned on the left and right sides of the body inside the rear bumper.



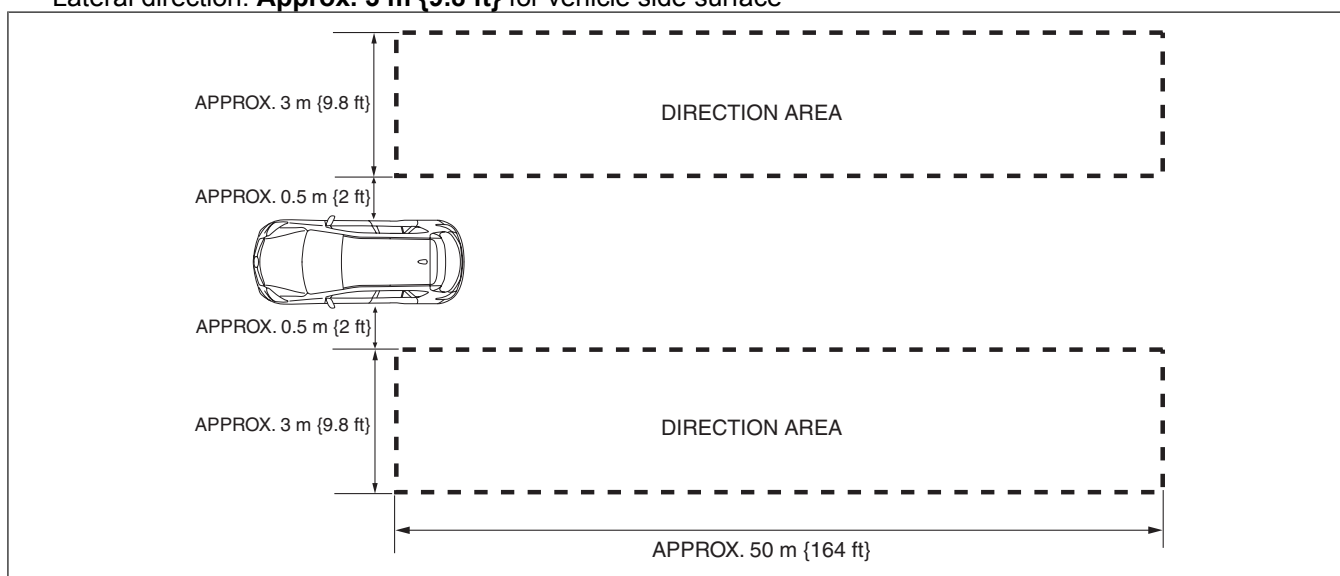
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### Operation

- When the ignition is switched ON (engine on) and vehicle speed is 30 km/h or more, the rear vehicle monitoring control module emits microwaves from the radar and starts detection of approaching vehicles.

### Detection area

- Forward and rear directions: From B-pillar towards vehicle rear at distance of **approx. 50 m {164 ft}**
- Lateral direction: **Approx. 3 m {9.8 ft}** for vehicle side surface



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**Fail-safe**

<b>DTC No.</b>	<b>Rear vehicle monitoring (RVM) system warning light (amber)</b>
B11CB:11	Inhibits the rear vehicle monitoring system.
B11CB:15	Inhibits the rear vehicle monitoring system.
B11D3:11	Inhibits the rear vehicle monitoring system.
B11D3:15	Inhibits the rear vehicle monitoring system.
B11F2:23	Inhibits the rear vehicle monitoring system.
U0001:88	Inhibits the rear vehicle monitoring system.
U0028:87	Inhibits the rear vehicle monitoring system.
U0100:00	Inhibits the rear vehicle monitoring system.
U0121:00	Inhibits the rear vehicle monitoring system.
U0155:00	Inhibits the rear vehicle monitoring system.
U0214:00	Inhibits the rear vehicle monitoring system.
U0401:68	Inhibits the rear vehicle monitoring system.
U0415:68	Inhibits the rear vehicle monitoring system.
U0423:68	Inhibits the rear vehicle monitoring system.
U0515:68	Inhibits the rear vehicle monitoring system.
U1A4B:16	Inhibits the rear vehicle monitoring system.
U1A4B:17	Inhibits the rear vehicle monitoring system.
U1A4B:43	Inhibits the rear vehicle monitoring system.
U1A4B:44	Inhibits the rear vehicle monitoring system.
U1A4B:45	Inhibits the rear vehicle monitoring system.
U1A4B:46	Inhibits the rear vehicle monitoring system.
U1A4B:47	Inhibits the rear vehicle monitoring system.
U1A4B:48	Inhibits the rear vehicle monitoring system.
U1A4B:49	Inhibits the rear vehicle monitoring system.
U1A4B:54	Inhibits the rear vehicle monitoring system.
U1A4B:96	Inhibits the rear vehicle monitoring system.
U2100:00	Inhibits the rear vehicle monitoring system.
U3000:43	Inhibits the rear vehicle monitoring system.
U3000:44	Inhibits the rear vehicle monitoring system.
U3000:45	Inhibits the rear vehicle monitoring system.
U3000:46	Inhibits the rear vehicle monitoring system.
U3000:47	Inhibits the rear vehicle monitoring system.
U3000:48	Inhibits the rear vehicle monitoring system.
U3000:49	Inhibits the rear vehicle monitoring system.
U3000:4B	Inhibits the rear vehicle monitoring system.
U3000:54	Inhibits the rear vehicle monitoring system.
U3000:96	Inhibits the rear vehicle monitoring system.
U3000:97	Inhibits the rear vehicle monitoring system.
U3003:16	Inhibits the rear vehicle monitoring system.
U3003:17	Inhibits the rear vehicle monitoring system.