

## RVM INDICATOR LIGHT (GREEN)/RVM WARNING INDICATOR LIGHT DOES NOT ILLUMINATE WHEN IGNITION IS SWITCHED ON [REAR VEHICLE MONITORING SYSTEM]

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### Note

- If there is any vehicle malfunction complaint lodged by a customer, perform FOREWORD [REAR VEHICLE MONITORING SYSTEM] malfunction diagnosis according to the troubleshooting procedure.

### Description

- The RVM indicator light (green) does not illuminate when the ignition is switched ON.
- RVM warning indicator light does not illuminate when ignition is switched ON.

### Possible malfunction

- Rear vehicle monitoring control module (RH) does not initiate.
  - Open circuit in wiring harness between IG1 relay and rear vehicle monitoring control module (RH) terminal F
  - C/U IG1 15 A fuse damage, burnt out
  - Open circuit in wiring harness between rear vehicle monitoring control module (RH) terminal H and ground
  - Poor ground (looseness, disengagement)
  - Rear vehicle monitoring control module malfunction (internal malfunction)
- Rear vehicle monitoring control module (LH) does not initiate.
  - Open circuit in wiring harness between IG1 relay and rear vehicle monitoring control module (LH) terminal F
  - C/U IG1 15 A fuse damage, burnt out
  - Open circuit in wiring harness between rear vehicle monitoring control module (LH) terminal H and ground
  - Poor ground (looseness, disengagement)
  - Rear vehicle monitoring control module malfunction (internal malfunction)
- RVM warning indicator light illumination circuit disabled.
  - RVM warning indicator light malfunction
  - Open or short circuit in wiring harness between rear vehicle monitoring control module (LH) and RVM warning indicator light
  - Rear vehicle monitoring control module (LH) internal malfunction (RVM warning indicator light illumination circuit disabled)
- Instrument cluster does not illuminate RVM indicator light (green).
  - Instrument cluster internal malfunction (RVM indicator light (green) illumination circuit disabled)

### Diagnostic Procedure

Step	Inspection		Action
1	<b>DETERMINE IF MALFUNCTION CAUSE IS RVM INDICATOR LIGHT (GREEN) OR RVM WARNING INDICATOR LIGHT ILLUMINATION CIRCUIT</b> <ul style="list-style-type: none"><li>• Switch the ignition ON (engine off or on).</li><li>• Verify RVM indicator light (green) condition.</li><li>• Does the RVM indicator light (green) illuminate?</li></ul>	Yes	Go to Step 3.
		No	Go to the next step.
2	<b>DETERMINE IF MALFUNCTION CAUSE IS REAR VEHICLE MONITORING CONTROL MODULE OR INSTRUMENT CLUSTER RELATED</b> <ul style="list-style-type: none"><li>• Illuminate all the indicator lights and warning lights in the instrument cluster using the simulation function WL+IL in the M-MDS instrument cluster. (See ACTIVE COMMAND MODES INSPECTION [INSTRUMENT CLUSTER].)</li><li>• Does the RVM indicator light (green) illuminate?</li></ul>	Yes	Replace the rear vehicle monitoring control module (RH). (See REAR VEHICLE MONITORING CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)

Step	Inspection	Action	
3*	<b>DETERMINE IF MALFUNCTION CAUSE IS REAR VEHICLE MONITORING CONTROL MODULES OR RVM WARNING INDICATOR LIGHTS</b> • Inspect the following: <b>RVM warning indicator light (RH) related:</b> — RVM warning indicator light (RH) — Wiring harness between RVM warning indicator light (RH) terminal G and rear vehicle monitoring control module (LH) terminal D — Wiring harness between RVM warning indicator light (RH) terminal H and rear vehicle monitoring control module (LH) terminal C <b>RVM warning indicator light (LH) related:</b> — RVM warning indicator light (LH) — Wiring harness between RVM warning indicator light (LH) terminal G and rear vehicle monitoring control module (LH) terminal K — Wiring harness between RVM warning indicator light (LH) terminal H and rear vehicle monitoring control module (LH) terminal G • Is any malfunction verified?	Yes	Repair or replace the malfunctioning location.
		No	Replace the rear vehicle monitoring control module (LH). (See REAR VEHICLE MONITORING CONTROL MODULE REMOVAL/INSTALLATION.)
4*	<b>INSPECT REAR VEHICLE MONITORING CONTROL MODULE (RH) POWER SUPPLY SYSTEM</b> • Switch the ignition ON (engine off or on). • Measure the voltage at rear vehicle monitoring control module (RH) terminal F. • Is the voltage B+?	Yes	Go to the next step.
		No	Inspect the C/U IG1 15 A fuse. <b>If the fuse is burned out:</b> • Inspect and repair the wiring harness between the C/U IG1 15 A fuse and rear vehicle monitoring control modules (RH/LH) terminal F for a short circuit to the ground system. <b>If the fuse is not damaged or burned out:</b> • Inspect and repair the following wiring harness for an open circuit: — Between IG relay terminal 1B (IG1 relay) and rear vehicle monitoring control modules (RH/LH) terminal F
5*	<b>INSPECT REAR VEHICLE MONITORING CONTROL MODULE (RH) GROUND SYSTEM</b> • Switch the ignition off (LOCK). • Disconnect the rear vehicle monitoring control module (RH) connector. • Verify continuity between rear vehicle monitoring control module (RH) vehicle wiring harness-side connector terminal H and ground. • Is there continuity?	Yes	Replace the rear vehicle monitoring control module (RH). (See REAR VEHICLE MONITORING CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Inspect and repair the ground point for looseness, disengagement, or lifting. Inspect and repair the wiring harness for an open circuit.