Reference	SSM76361
Models	New Range Rover / L460 New Range Rover Sport / L461
Title	Intermittent Low Coolant Warning Displayed But Coolant Level OK
Category	Engine
Last modified	11-Jul-2025 00:00:00
Symptom	402000 Cooling System Concerns
Attachments	Attachment 15.PNG (Attachment 15.PNG) Attachment 25.PNG (Attachment 25.PNG)

Content

Model / Model Year / Derivative
Range Rover / 22MY Onwards / All Engine Derivatives
Range Rover Sport / 23MY Onwards / All Engine Derivatives

Situation:
JLR Engineering investigations have identified that some vehicles may intermittently display a low coolant level warning on the instrument cluster, even though the coolant level is confirmed to be within the correct range and no cooling system leaks are evident.

Cause:
The cause is currently under investigation with the relevant Engineering teams and actions completed within this SSM will help identify the root cause.

Action:

1. **Connector Inspection – C1MC21A**

- Locate the coolant level sensor connector C1MC21A (refer to Attachment 1).
- Visually inspect the connector for signs of water ingress and/or corrosion.
- Take a clear, in-focus photograph of the connector to document its condition.

2. **Pin Retention Check – C1MC21A**

- Perform a pin retention (pin tension) check on both cavities of connector C1MC21A.
- Record the results, noting any signs of loose, damaged, or misaligned terminals.

3. Wiring Harness Inspection

- Inspect the wiring harness leading from connector C1MC21A for any signs of physical damage, such as chafing, abrasion, or incorrect routing.
- If damage is found, take a clear, in-focus photograph for evidence.

4. **Ground Point Inspection – G1D830A**

- Locate ground point G1D830A (refer to Attachment 2).
- Confirm that the ground point is clean, secure, and free from corrosion.
- Take a clear, in-focus photograph of the ground point to document its condition.

5. **Continuity Test – Sensor to Ground**

- Using suitable calibrated measuring equipment, measure the resistance between Pin 1 of connector C1MC21A and ground point G1D830A.
- Record the measured resistance. The expected value should be less than 0.5 ohms to confirm good continuity.

6. **Coolant Level Sensor Function Test**

- Using suitable calibrated measuring equipment, measure the resistance across the terminals of the coolant level sensor with the coolant expansion tank both full and empty.
- Record the resistance values for both conditions to confirm correct sensor function.

Raise a Technical Assistance (TA). The TA must include the following information:

- Reference the following engineering department: ‘PTS_500’
- Reference to this SSM number (SSM76361)
- Reference to P374537
- Photographic evidence where requested
- Recorded measurements taken during the previous steps
- Reported observations from the customer detailing the timing and conditions of the low coolant level warning illumination (frequency of warning activation, drive cycle information, engine temperature).

A JLR Engineer will review the TA case and provide further guidance.
(REF:000374537/5864)

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