

Special Service Message



NOTE: A Special Service Message is a formal communication issued by Land Rover and carries the same importance of a Technical Service Bulletin. An SSM is a quick method of communicating "Need To Know" information to the technical service community. SSM's may be issued in advance of a technical bulletin or may be the only communication on a given topic. All information contained in Land Rover technical communications are intended for use by trained, professional technicians with the knowledge, tools, and equipment required to complete the procedure correctly and safely. It informs the Technicians of conditions that may occur on some vehicles, or provides information that could assist in correct vehicle and diagnostic service.

SSM 75004 - Low Coolant Warning Displayed on Instrument Cluster (Coolant on MAX Level)

Models : Defender/L663

Engineer Name : Tristan Hooper

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Category : Engine

Symptom : 402000 Cooling System Concerns

Content : Issue:

Customer reports Low Coolant Level warning message on the Instrument Panel Cluster (IPC). Following a visual check of the coolant expansion tank, it is observed the coolant is on maximum level.

Cause:

The specification is insufficient at ambient temperature for the coolant expansion tank coolant level sensor retainer tabs. Once the coolant expansion tank gets up to a normal operating temperature, the tank retainer tabs are relaxing the force on the sensor. Vibration and shock load from driving is causing the coolant level sensor to drop out of its location and displaying a low coolant level warning, although the expansion tank coolant is at the maximum level.

Action:

- Locally source two cable ties with dimensions of 2.5mm x 100mm x 1mm
- Remove the Coolant Expansion Tank as per TOPIx process 303-03A: Engine Cooling, Coolant Expansion Tank.
- Remove the Coolant Level Sensor from the Coolant Expansion Tank
- Fit a cable tie around the Coolant Level Sensor above the retaining lip and below the head of the sensor making sure the ratchet part of the cable tie is opposite to the connector of the sensor - refer to SSM attachment.
- Fit a second cable tie around the retaining tabs on the tank, can be a little loose at this stage and pulled tight when the sensor is fitted - refer to SSM attachment
- Fit the sensor into the tank and pull the cable tie tight around the tabs. The cable ties should be located as described in the attached pictures.
- Refit the Coolant Expansion Tank as per TOPIx process 303-03A: Engine Cooling, Coolant Expansion Tank.

File : [L663 Coolant Level Sensor.pdf](#)

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