

Coolant leak at expansion reservoir level sensor connection

Topic number	LI20.30-P-078666
Version	3
Function group	20.30 - Coolant expansion/overflow tank
Date	9/25/25
Validity	Model year 2025 GLE and GLS-class vehicles
	Production date 09/2024 and later
Reason for change	Remedy modified

Complaint

Coolant level warning in instrument cluster.
Coolant odor or leaking from coolant expansion reservoir.

Cause

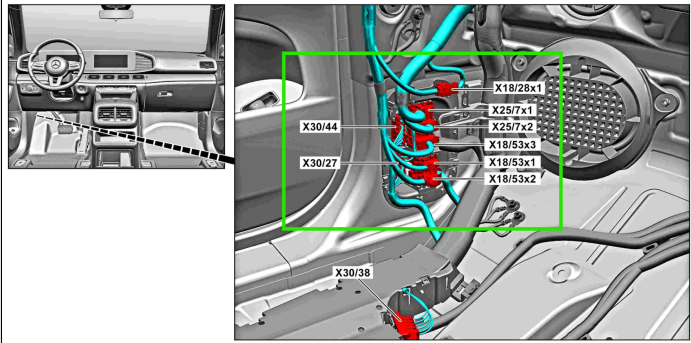
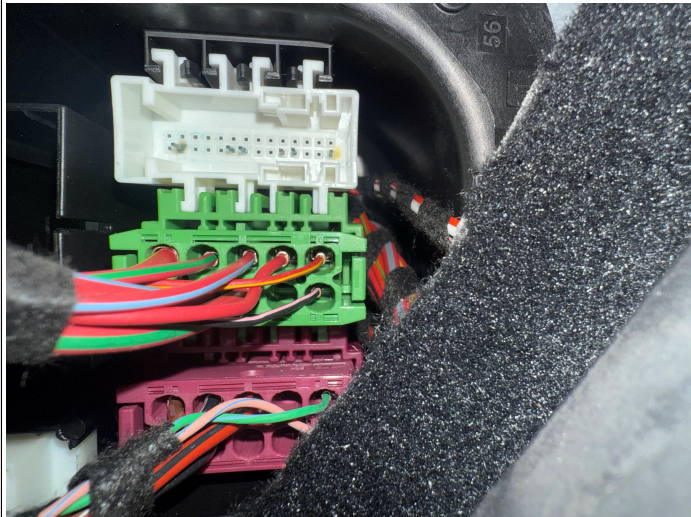
Coolant wicking through electrical contacts, or level sensor electrical connections not present in expansion reservoir.

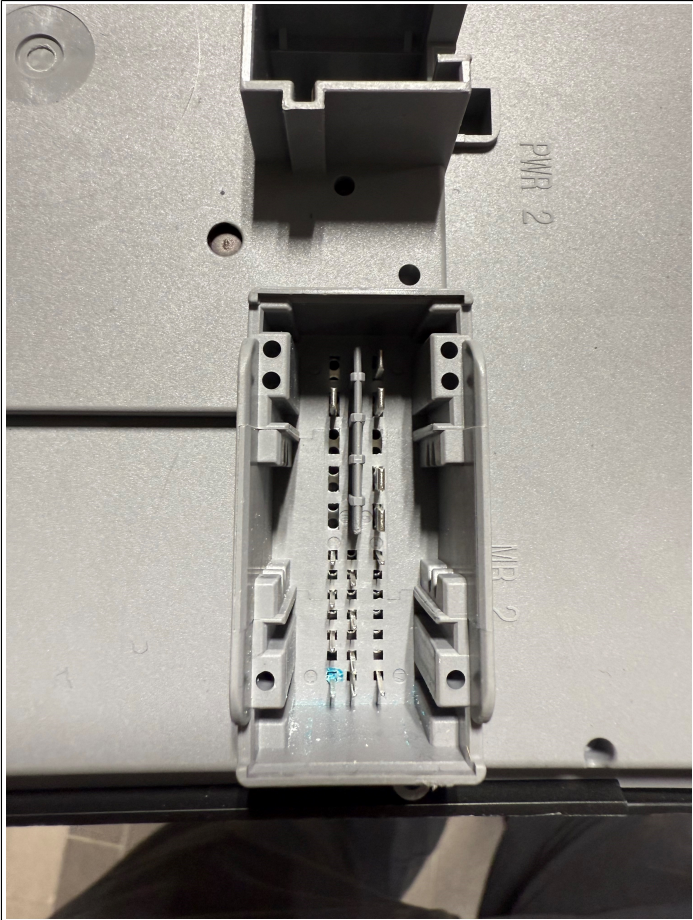
Remedy

**Important: If the coolant expansion tank is replaced due to leak at the level sensor contact area, ensure that the expansion tank is marked as the main damage part in the warranty claim

- 1- Inspect expansion tank level sensor electrical connection for missing contacts. Additionally the triangular sticker may not be present on top of reservoir. See example of OK and NOK part.
- Replace the expansion reservoir if contacts are found to be missing. A TIPS case is not needed.
 - Proceed to step 3.
- 2- With contacts present, inspect coolant level sensor electrical connection for leakage past contact seals. Visible coolant at the connection indicates leakage.
- Capture photos if leakage is identified and create a TIPS case with the Powertrain team.
 - Replace the expansion reservoir.
- 3- Repair any damage to wiring or electrical contacts on wiring harness from S41 to N10/6.
- Check the front SAM N10/6 for coolant contamination and replace if necessary.
 - Inspect electrical connectors at base of A-pillar for contamination and repair/replace as necessary.

Attachments

File	Description
NOK part.jfif	NOK parts with pins and sticker missing
OK part.jfif	OK part with pins and sticker present
A-pillar connectors.png 	
X25_7x1 corrosion example.jpg 	
N10_6 connector MR2 corrosion example.jpg	



Level sensor connection.jpg

Example of coolant at level sensor connection



WIS-References

Document number	Title	Note
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AR20.30-P-4949MNO	Remove/install coolant expansion reservoir	Engines M176 and M177
AR20.30-P-4949MRX	Remove/install coolant expansion reservoir	Engine M254
AR20.30-P-4949MSC	Remove/install coolant expansion reservoir	Engine M256

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Power generation > Engine cooling system > Function > Coolant level too low
Power generation > Engine cooling system > Display message > Coolant - Serviced Required
Power generation > Engine cooling system > Leakage > Has coolant loss

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A1675009900			Coolant expansion reservoir	1		X

Control unit/fault code	
Control unit	Fault text
N10/6 - Front signal acquisition and actuation module (Driver-side SAM) (BC_F213)	P25567B - The sensor 'Coolant level' has an electrical fault. The fluid level is too low.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note