

Coolant leak at expansion reservoir level sensor connection

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Topic number      | LI20.30-P-078666                                       |
| Version           | 2                                                      |
| Function group    | 20.30 - Coolant expansion/overflow tank                |
| Date              | 7/29/25                                                |
| Validity          | Model year 2025 GLE and GLS-class vehicles             |
|                   | Production date 09/2024 and later                      |
| Reason for change | Additional symptom of coolant wicking through contacts |

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

1. Inspect expansion tank level sensor electrical connection for wicking coolant or missing contacts. Additionally the triangular sticker may not be present on top of reservoir. See example of OK and NOK part.
2. Replace expansion reservoir if level sensor contacts are confirmed to be missing or wicking coolant.
3. Repair any damage to wiring or electrical contacts on wiring harness.
4. Create a TIPS case with supporting photos and submit to the IFQ inbox for information. Vehicle can be released after repair is complete.

| Attachments                   |                                         |
|-------------------------------|-----------------------------------------|
| File                          | Description                             |
| <a href="#">NOK part.jfif</a> | NOK parts with pins and sticker missing |
| <a href="#">OK part.jfif</a>  | OK part with pins and sticker present   |

| WIS-References    |                                                 |                       |
|-------------------|-------------------------------------------------|-----------------------|
| Document number   | Title                                           | Note                  |
| AR20.30-P-4949MRX | Remove/install coolant expansion re-<br>servoir | Engine M254           |
| AR20.30-P-4949MSC | Remove/install coolant expansion re-<br>servoir | Engine M256           |
| AR20.30-P-4949MNO | Remove/install coolant expansion re-<br>servoir | Engines M176 and M177 |

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 |
|---------|----------------|------|-------------|------|
|         |                |      |             |      |