

All Vehicles Equipped with M139: CEL for P012800 - The coolant temperature is below the coolant thermostat specified temperature.

|                   |                                              |
|-------------------|----------------------------------------------|
| Topic number      | LI20.10-P-076206                             |
| Version           | 19                                           |
| Function group    | 20.10 - Coolant pump, coolant thermostat     |
| Date              | 6/20/24                                      |
| Validity          | All vehicles with any version of M139 engine |
| Reason for change | note                                         |

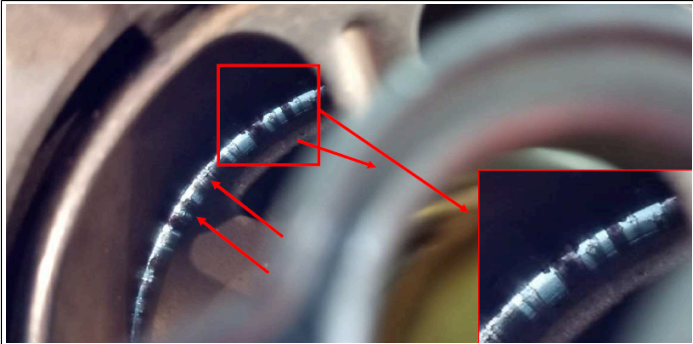
Complaint

Customer states that the CEL is lit in the instrument cluster

Cause

Debris in the coolant system

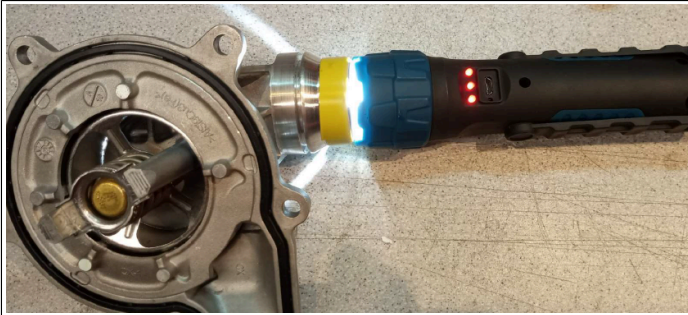
| Attachments                                                                         |             |
|-------------------------------------------------------------------------------------|-------------|
| File                                                                                | Description |
| <a href="#">Debris Aft of Sealing Surface of Thermostat.png</a>                     |             |
|  |             |
| <a href="#">Result of Using Light Source to Detect Debris.png</a>                   |             |



Debris at Interior Sealing Surface of Thermostat.png



Using Light Source to Detect Debris.png



Debris near Mating Surface of Thermostat.png

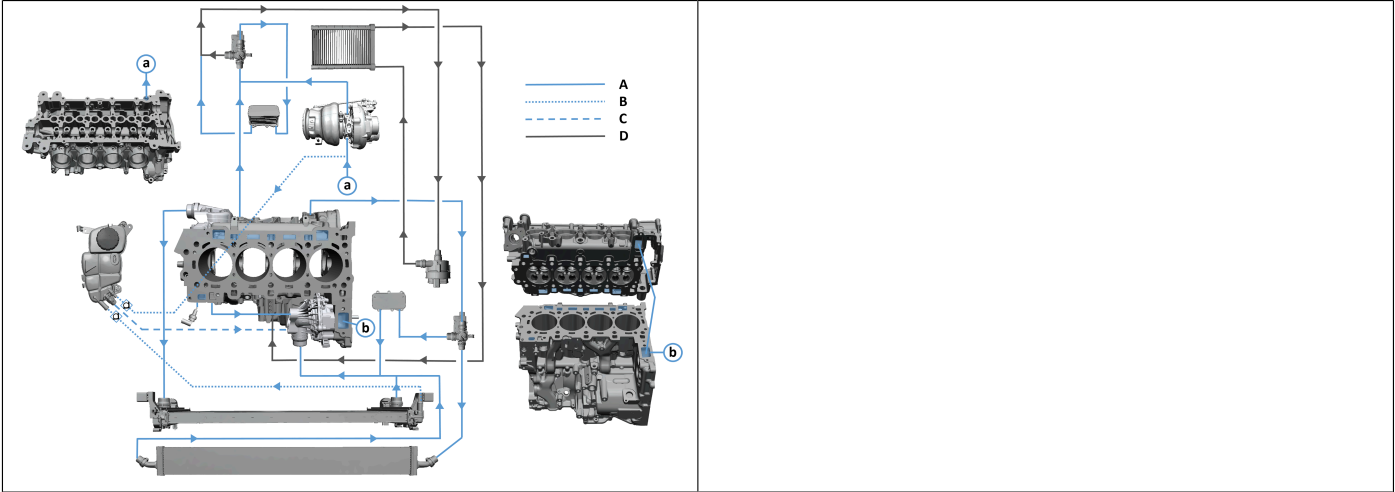


Heavy Debris in Thermostat.png





[CLA\\_GLA M139 Coolant Diagram.png](#)



Remedy

Please refer to the specific repair instructions for the vehicle you are working on in the attachments section of this LI. Before beginning work on the vehicle open a TIPS case and request the tool you will need.

In your request include a contact name, phone number, and shipping address for the tool to be sent.

Before the tool arrives:

- Remove and replace the coolant expansion tank (reservoir) and the main radiator.
- Without removing the components: flush the heater core and changeover valve (located in the right front wheel arch) in the opposite direction of flow until no debris remains.

Once the tool arrives, proceed with flushing the vehicle per the instructions attached in this LI. A picture of the filter after each flush must be taken.

If after the prescribed number of flushing attempts debris is still being collected in the filter, upload all the pictures to the TIPS case and wait for next steps.

| Attachments                                            |              |
|--------------------------------------------------------|--------------|
| File                                                   | Description  |
| <a href="#">254 GLC63 Flushing Tool Use.pdf</a>        | GLC63        |
| <a href="#">254 GLC43 Flushing Tool Use.pdf</a>        | GLC43        |
| <a href="#">206 C43 Flushing Tool Use.pdf</a>          | C43          |
| <a href="#">206 C63 Flushing Tool Use.pdf</a>          | C63          |
| <a href="#">232 SL43 Flushing Tool Use.pdf</a>         | SL43         |
| <a href="#">MFA2 CLA45_GLA45 Flushing Tool Use.pdf</a> | CLA45, GLA45 |

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 management > Indicator lamp > Engine diagnosis > lit

## Parts

| Part number | ES1 | ES2 | Designation                 | Quantity | Note                                            | EPC |
|-------------|-----|-----|-----------------------------|----------|-------------------------------------------------|-----|
| A0995000202 |     |     | ADDITIONAL RADIATOR         | 1        | GLC43                                           | X   |
| A0995004800 |     |     | ADDITIONAL RADIATOR         | 1        | C43/SL43 (only if equipped)                     | X   |
| A0995005901 |     |     | COOLANT RADIATOR            | 1        | CLA45/GLA45                                     | X   |
| A0995008501 |     |     | COOLANT RADIATOR            | 1        | C43/SL43                                        | X   |
| A1390104104 |     |     | M139Q ENGINE                | 1        | CLA45/GLA45 (Only order if instructed via TIPS) | X   |
| A1390104202 |     |     | M139L (SL43 ENGINE)         | 1        | SL43 (Only order if instructed via TIPS)        | X   |
| A1390107004 |     |     | M139L (C43 ENGINE)          | 1        | C43 (Only order if instructed via TIPS)         | X   |
| A1392002202 |     |     | THERMOSTAT                  | 1        | All Models                                      | X   |
| A1775008600 |     |     | COOLANT EXPANSION RESERVOIR | 1        | CLA45/GLA45                                     | X   |
| A2065003400 |     |     | COOLANT EXPANSION RESERVOIR | 1        | C43/SL43/GLC43                                  | X   |
| A2545003700 |     |     | COOLANT RADIATOR            | 1        | GLC43                                           | X   |

## Control unit/fault code

| Control unit                                                                    | Fault text                                                                                 |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| N3/10 - Motor electronics 'MRG2AMG' for combustion engine 'M139' (ME) (MRG2AMG) | P012800 - The coolant temperature is below the coolant thermostat specified temperature. _ |

## Operation numbers/damage codes

| Op. no. | Operation text   | Time | Damage code | Note |
|---------|------------------|------|-------------|------|
| 540650  | Maintain Voltage | 0.1  |             |      |
| 541011  | Quick Test       | 0.2  |             |      |
| 202470  | Thermostat       | 3.5  |             |      |
| 547989  | Ground Line      | 0.1  |             |      |
| 611075  | Belly pan center | 0.3  |             |      |
| 611071  | Belly Pan front  | 0.4  |             |      |
| 401580  | Wheel R&R        | 0.3  |             |      |

## XENTRY Tips

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|        |                                                    |         |  |  |
|--------|----------------------------------------------------|---------|--|--|
| 201145 | Coolant Drain/Fill                                 | 0.3     |  |  |
| 831762 | A/C Extract/Fill                                   | 0.6     |  |  |
| 82112- | Adjust Headlamp                                    | 0.6     |  |  |
| 20-000 | Gut Thermostat                                     | NONTime |  |  |
| 203865 | Radiator                                           | 3.9     |  |  |
| 203820 | Additional Radiator                                | 0.6     |  |  |
| 881319 | Parktronic                                         | 0.1     |  |  |
| 881934 | 360 Camera                                         | 0.3     |  |  |
| 201030 | Install Filter Device and Perform Flushing Routine | ZM      |  |  |