

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	17
Function group	20.10 - Coolant pump, coolant thermostat
Date	4/23/24
Validity	All vehicles with any version of M139 engine
Reason for change	Added parts

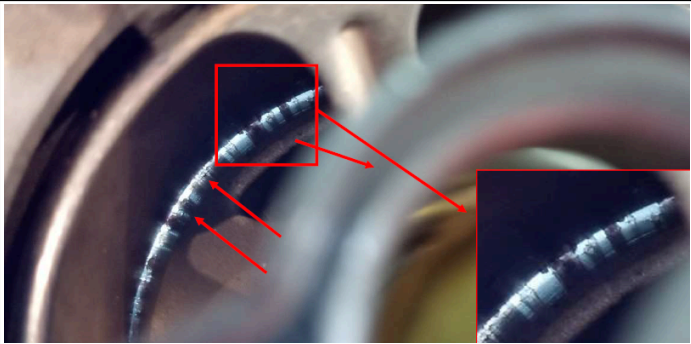
Complaint

Customer states that the CEL is lit in the instrument cluster

Cause

Debris in the coolant system

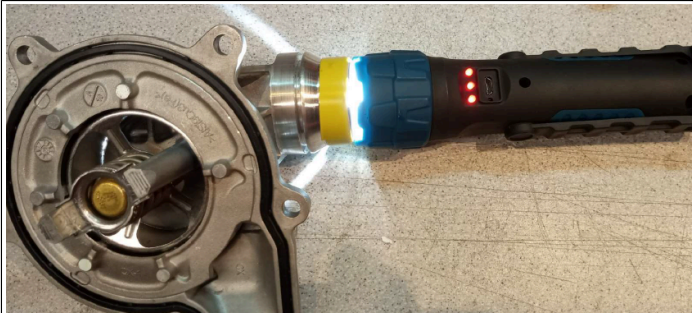
Attachments	
File	Description
Debris Aft of Sealing Surface of Thermostat.png	
	
Result of Using Light Source to Detect Debris.png	



Debris at Interior Sealing Surface of Thermostat.png



Using Light Source to Detect Debris.png



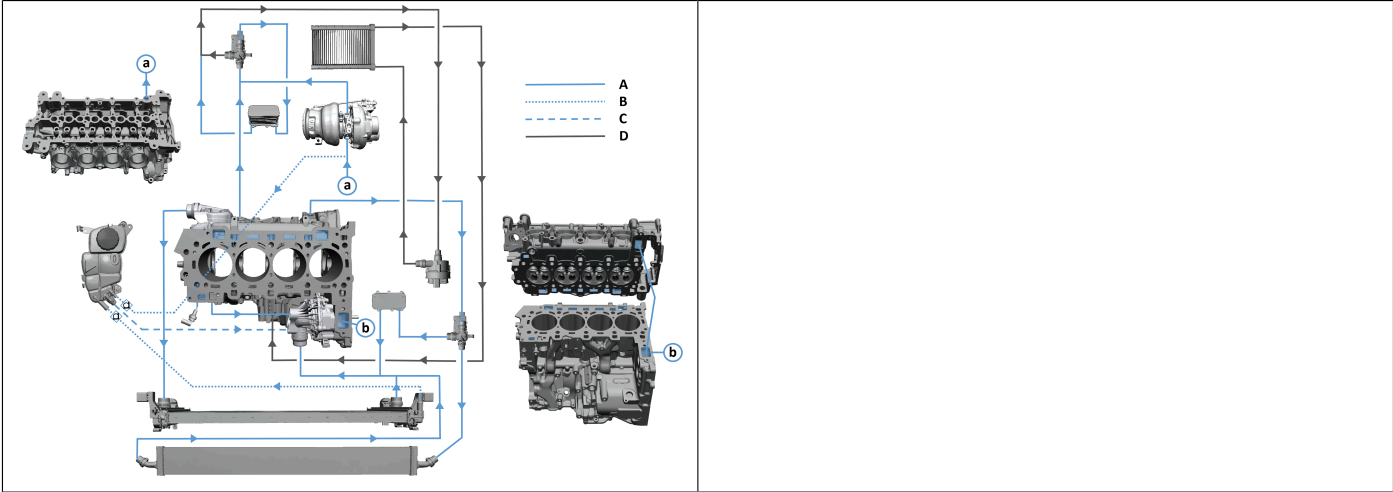
Debris near Mating Surface of Thermostat.png



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
ENG_Work instructions for rinsing routine M139 MFAII Field_Rev_1.3.pdf	MFA2 (CLA45/GLA45) Rinsing Routine Instructions
ENG_Work instructions for rinsing routine M139 BR232_Field_Rev_1.3.pdf	232 (SL43) Rinsing Routine Instructions
ENG_Work instructions for rinsing routine M139 BR206 Entry_Field_Rev_1.3.pdf	206 (C43) Rinsing Routine Instructions
ENG_Work instructions for rinsing routine M139 BR254_Field_Rev_1.4_USA.pdf	254 (GLC43) Rinsing Routine Instructions

Symptoms
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0995004800			ADDITIONAL RADIATOR	1	C43/SL43	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
A0995000202			ADDITIONAL RADIATOR	1	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		
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		