

All Vehicles Equipped with M139: Various CEL's Related to Coolant Temperature

Topic number	LI20.10-P-076206
Version	33
Function group	20.10 - Coolant pump, coolant thermostat
Date	10/13/25
Validity	All vehicles with any version of M139 engine
Reason for change	Fault code addition

Complaint

Customer states that the CEL is lit in the instrument cluster. Various codes may be active/stored:

Stored in N3/10 in model series 206, 254 or 232:

P012800 - The coolant temperature is below the coolant thermostat specified temperature.

and/or

P01169D - Malfunction in coolant temperature sensor 1. Under temperature in the component or system.

For model series 177, 118, 247 in n3/10 (only valid for M139.980 facelift (code 9U8)):

P2CEF00 - Electrical fault or open circuit in coolant thermostat.

and/or

P011685 - Malfunction in coolant temperature sensor 1. There is a signal above the permissible limit.

Cause

Debris in the coolant system

Remedy

An updated thermostat must be installed.

Order the correct thermostat part number for your application:

CLA45/GLA45 with SA Code 9U8: A 139 200 66 02

CLA45/GLA45 WITHOUT SA Code 9U8: A 139 200 27 02

All other M139 equipped vehicles: A 139 200 64 02

New screws must also be ordered and used when installing thermostat A 139 200 66 02 or A 139 200 64 02

PN N000000006341 (qty 2) will be used in place of the existing M8 screws. on the face of the thermostat.

The new screws must be torqued to 8 Nm.

Follow the instructions in WIS for removal and installation with the exception of the thermostat screw torque value mentioned previously.

After replacement, fill and bleed the coolant system per the instructions in WIS for the model that is being worked on.

QC the car on a test drive. If the complaint is remedied, release the vehicle.

WIS-References		
Document number	Title	Note
AR20.10-P-2460MTA	Remove/install coolant thermostat MFA2	Exchange thermostat as per AR20.10-P-2460MTA
AR20.10-P-2461SLX	Remove/install coolant thermostat BR232	Exchange thermostat as per AR20.10-P-2461SLX
AR20.10-P-2461WTF	Remove/install coolant thermostat BR206, BR254	Exchange thermostat as per AR20.10-P-2461WTF

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 > Does not reach operating temperature
Power generation > Engine cooling system > Function > Has a high coolant temperature
Power generation > Engine cooling system > Indicator lamp > Illuminates yellow
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Power generation > Engine cooling system > Display message > Coolant - Serviced Required
Power generation > Engine management > Function > Malfunction

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC

A 139 200 27 02			Thermostat for CLA45/GLA45 vehicles WITHOUT SA Code 9U8	1	CLA45/GLA45 vehicles WITHOUT SA Code 9U8	X
A1392006402			Thermostat for M139L vehicles	1	All M139 vehicles except CLA45/GLA45	X
A1392006602			Thermostat for CLA45/GLA45 vehicles with SA Code 9U8	1	CLA45/GLA45 vehicles with SA Code 9U8	X
N000000006341			screw	2	New screws for thermostat installation. DO NOT USE WITH PN A 139 200 27 02	X

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MRG1AMGR4' for combustion engine 'M139' (ME) (MRG1AMGR4)	P2CEF00 - The coolant thermostat is stuck open. □ Circuit Cylinder head P011685 - Coolant temperature sensor 1 has a malfunction. There is a signal above the permissible limit value.
N3/10 - Motor electronics 'MRG2AMG' for combustion engine 'M139' (ME) (MRG2AMG)	P01169D - Coolant temperature sensor 1 has a malfunction. The component or the system has undertemperature. P012800 - The coolant temperature is below the coolant thermostat specified temperature. _

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
		H	2010252	Please quote LI number in dealership text