

Check engine lamp activated, coolant warning message, and engine fan running at full speed

Topic number	LI20.00-P-076708
Version	3
Function group	20.00 - General
Date	4/15/24
Validity	254 GLC-class
Reason for change	Validity updated, 254.347 GLC coupe added

Complaint

Check engine lamp activated, coolant warning message, and engine fan running at full speed.

Below fault codes stored in N127 PTCU related to LIN network components.

U063200, U063287, U02A900, U02A987, U0698E4, U0698E5, U02C800, U02C887, U063B00, U063B87

Cause

Under analysis.

Remedy

Disconnect 12V battery and leave for 20 minutes. Reconnect battery and clear fault codes. Perform 2 test drives, with at least 5 minutes in between with ignition off.

If vehicle operates normally, it can be released to the owner.

If symptom reoccurs create a TIPS case with below information:

- Initial quick test showing fault codes.
- Details on events/scenario leading up to symptoms

WIS-References		
Document number	Title	Note
AR54.10-P-0051WTC	Disconnect/connect ground line of battery for 12 V on-board electrical system	

Symptoms

Power generation > Engine cooling system > Engine fan > Runs permanently
Power generation > Engine cooling system > Engine fan > Noise
Power generation > Engine cooling system > Indicator lamp > Illuminates yellow
Power generation > Engine cooling system > Display message > Coolant - Serviced Required
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Control unit/fault code	
Control unit	Fault text
N127 - Control unit "Drivetrain" (PTCU) (CPC3)	<p>U063B87 - Communication with regulation valve 'High temperature circuit' has a malfunction. The message is missing.</p> <p>U063B00 - Communication with regulation valve 'High temperature circuit' has a malfunction. _</p> <p>U02C887 - Communication with the component 'Exhaust flap 2' has a malfunction. _</p> <p>U02C800 - Communication with the component 'Exhaust flap 2' has a malfunction. _</p> <p>U0698E5 - Communication with coolant pump 2 of the low-temperature circuit has a malfunction. _</p> <p>U0698E4 - Communication with coolant pump 2 of the low-temperature circuit has a malfunction. _</p> <p>U02A987 - Communication with coolant pump 1 of the charge air cooler has a malfunction. The message is missing.</p> <p>U02A900 - Communication with coolant pump 1 of the charge air cooler has a malfunction. _</p> <p>U063287 - Communication with electric fan 1 has a malfunction. The message is missing.</p> <p>U063200 - Communication with electric fan 1 has a malfunction. _</p>

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