

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

Topic number	LI20.00-P-076708
Version	1
Function group	20.00 - General
Date	7/18/23
Validity	254 GLC-class
Reason for change	

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

Create a TIPS case with findings of below checks.

Include:

- Initial quick test showing fault codes.
- Details from owner on events leading up to symptoms

Inspect wiring and connections (pins/sockets) for damage or corrosion at below components.

-N127

-X25/7x1

-M4/7 Engine cooling fan

-Y73/1 coolant directional control valve

-M43/7 circulation pump 2 low-temperature circuit

-M43/8 circulation pump 3 low-temperature circuit

XENTRY TIPS

-M16/91 Exhaust flap actuator

Attach photos of any irregularities found to the TIPS case.

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 'Powertrain' (PTCU) (CPC3)	U063B87 - Communication with regulation valve 'High temperature circuit' has a malfunction. The message is missing. U063B00 - Communication with regulation valve 'High temperature circuit' has a malfunction. _ U02C887 - Communication with the component 'Exhaust flap 2' has a malfunction. _ U02C800 - Communication with the component 'Exhaust flap 2' has a malfunction. _ U0698E5 - Communication with coolant pump 2 of the low-temperature circuit has a malfunction. _ U0698E4 - Communication with coolant pump 2 of the low-temperature circuit has a malfunction. _ U02A987 - Communication with coolant pump 1 of the charge air cooler has a malfunction. The message is missing. U02A900 - Communication with coolant pump 1 of the charge air cooler has a malfunction. _ U063287 - Communication with electric fan 1 has a malfunction. The message is missing. U063200 - Communication with electric fan 1 has a malfunction. _

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