

M254 Check engine light illuminated - fault code P012867 coolant thermostat

Topic number	LI20.10-P-075052
Version	1
Function group	20.10 - Coolant pump, coolant thermostat
Date	7/11/22
Validity	Model 206 with engine M254 up to production date June 2022
Reason for change	

Complaint

Check engine light is illuminated

Fault code stored P012867- The coolant temperature is below the coolant thermostat specified temperature. The signal is impermissible after an event.

Cause

Coolant thermostat

Remedy

Replace coolant thermostat with part A2542003300. Refill cooling circuit with fresh coolant following WIS procedures.

Clear fault codes and perform below test drive to verify repair:

1-Lock the car and wait at least 8 hours. start the engine (note: coolant and radiator temp should be same as ambient temp)

2-Idle or drive the vehicle until coolant temp reaches 80 C.

3-Stop the engine and switch off ignition, wait 3-5 minutes, then start engine, (coolant temp must be below 70 C). Drive the vehicle until coolant temp reaches 93 C for at least 3 minutes.

4-Stop the engine and check fault codes. If no faults return vehicle can be released to owner.

WIS-References		
Document number	Title	Note
AR20.10-P-2461MRV	Remove/install coolant thermostat	

Symptoms
Power generation > Engine cooling system > Function > Does not reach operating temperature

XENTRY TIPS

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

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A2542003300			Coolant thermostat	1		X

Control unit/fault code

Control unit	Fault text
N3/10 - Motor electronics 'MRG2' for combustion engine 'M254' (ME)	P012867 - The coolant temperature is below the coolant thermostat specified temperature. The signal is impermissible after an event.

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
---------	----------------	------	-------------	------