

Engine diagnosis warning lamp activated - Fault code P012800

Topic number	LI20.10-P-060902
Version	7
Function group	20.10 Coolant pump, coolant thermostat
Date	08-03-2020
Validity	Engine 270 and engine 274
Reason for change	Reference to Service Information added
Reason for block	

Complaint:

Engine diagnosis warning lamp activated - The fault code P012800 "The coolant temperature is below the coolant thermostat specified temperature" is stored in the engine control unit.

Cause:

After engine start, the engine coolant warms up more slowly than specified in the curve stored in the engine control unit.

Remedy:

NOTE: For all vehicles, check the engine control unit for a software update and update this if necessary.

REMEDY:

- Perform guided test "Check component R48 (coolant thermostat heating element)" and process according to the XENTRY instructions.
- Observe SI20.10-P-0005A if thermostat replacement is required. Remove filter screen on new thermostat if installed.

NOTE: Whenever work is performed to the cooling system, it is always necessary to refill the system with new coolant.

- When the work is complete, warm up the vehicle completely, erase the fault memory, leave the vehicle to cool down (at least 8 hours) and then perform a test drive; a coolant temperature of at least 70 °C must be reached during the test drive.

Symptoms
Power generation / Engine cooling system / Function / Does not reach operating temperature
Body / Air conditioning / Heater / Insufficient heat output
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit

Control unit/fault code		
Control unit	Fault code	Fault text

XENTRY TIPS

N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P012800	The coolant temperature is below the coolant thermostat specified temperature. _
N3/10 - Motor electronics 'ME-D40CNG' for combustion engine 'M274' (ME) (B (242, 246), E (212))	P012800	The coolant temperature is below the coolant thermostat specified temperature. _

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST		54575 90	
54-0991	PROGRAM CONTROL UNIT (AFTER QUICK TEST)		54575 90	As required, if necessary
20-2470	REMOVE/INSTALL COOLANT THERMOSTAT, REPLACE IF NECESSARY		20103 73	As required, if necessary
54-0650	ON-BOARD POWER SUPPLY VOLTAGE MAINTAIN			

WIS-References			
Document number	Title	Note	Allocation
SI20.10-P-0005A	Service Information: Coolant thermostat with filter screen		Remedy

Validity		
Vehicle	Engine	Transmission
*	274	*
*	270	*