

Electrical fault in coolant pump

Topic number	LI54.18-P-068180
Version	1
Function group	54.18 Cable harnesses
Date	06-01-2018
Validity	Model 205, 213, 253 with engine M274 except 180 kW variant
Reason for change	
Reason for block	

Complaint:

A coolant temperature warning message is displayed in the instrument cluster.

The engine does not have full power.

Faults referring to the electric coolant pump (M75/11) could be logged in the control unit. For the faults, see "Control unit / fault code".

Cause:

The wiring harness of the electric coolant pump (M75/11) could break at the cable lug of the connecting point (X244/16), see picture 1.

Attachments	
File	Description
Mögliche Bruchstelle.jpg	Picture 1

Remedy:

If all the test steps stored in XENTRY Diagnostics have been performed and no component faults were found, the following work must be carried out:

- Check line at connecting point X244/16.
- Check ground point (W46/1) of electric coolant pump.

If damage is found on the line to connecting point X244/1 just before the cable lug (picture 1), install the repair wiring harness (see "Parts") according to the specifications, see attachment.

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

XENTRY TIPS

Power generation / Engine management / Engine performance / No/poor output

Control unit/fault code

Control unit	Fault code	Fault text
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P260000	The output for the circulation pump 'Coolant' has an electrical fault or an open circuit. _
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P260200	The output for the circulation pump 'Coolant' has a short circuit to ground. _
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P021700	The coolant temperature of the engine is too high. _

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 274 150 39 02			Wiring harness	1	Repair of wiring harness of electric coolant pump	X
A 002 546 11 41			End sleeve - terminal connector	1	Yellow 7.5-12 mm ²	X
A 002 997 24 90			Cable tie	6		X

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
			590C2 74	K/Z* combustion engine electric coolant pump

Attachments

Mögliche Bruchstelle.jpg:

