Roof-mounted air conditioning system HK4 does not cool /cools poorly

Topic number	LI83.30-N-081008
Version	1
Function group	83.30 - Air conditioning
Date	10/12/26
Validity	Model series 907 with code HK4 as of production date: Plant 065 Düsseldorf --> 24.03.2026 Plant 155 Buenos Aires --> 31.05.2026 Plant 566 Charleston --> 13.04.2026
Reason for change	

Complaint

Roof-mounted air conditioning system HK4 does not cool/cools poorly.

Fault code in HVAC177:

B106F87 The left rear blower regulator has a malfunction. Message missing.

B107087 The right rear blower regulator has a malfunction. Message missing.

Cause

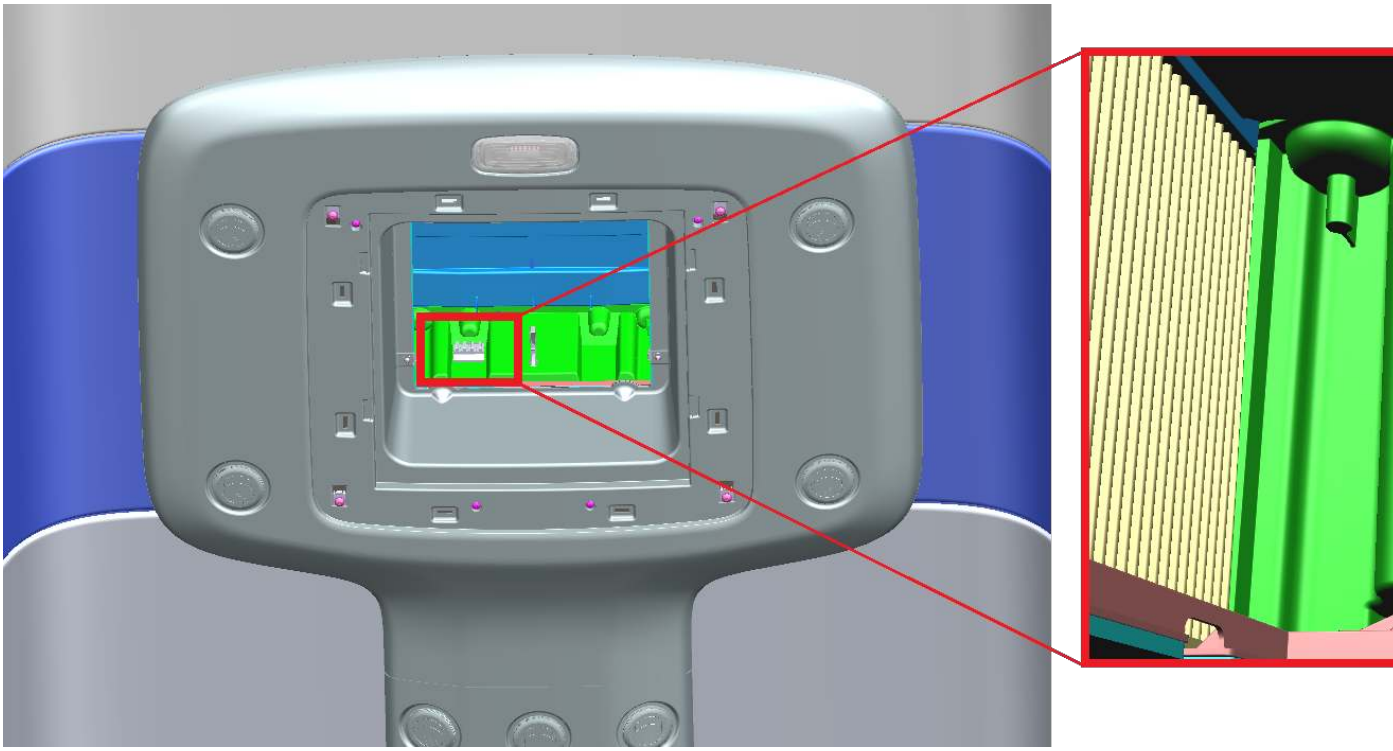
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Condenser fans of roof-mounted air conditioning system HK4 are not functioning.

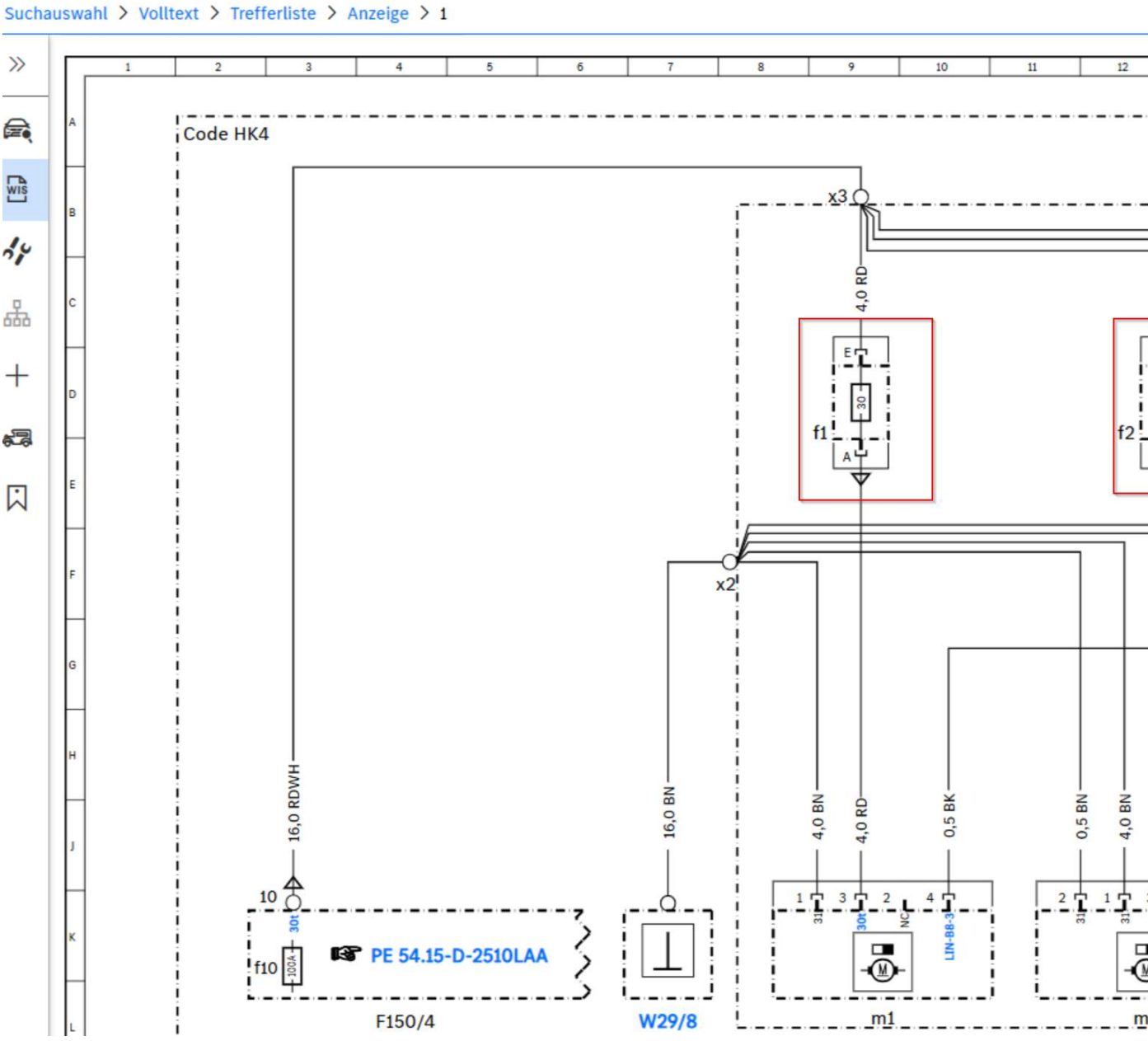
The fans themselves have a fault on the circuit board. As a result, an extremely rare interaction of various processes can lead to failure of the fans (software enters an undefined state).

Remedy

1. Remove and reinsert the fuse for the condenser fans.



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2. Activate the condenser fans via Xentry and check that they are operating correctly.

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IMPORTANT

At present, replacing parts does not resolve the complaint.

Condenser fans with new software are in progress, but not yet available! As soon as they are available, this GI will be updated.

Attachments

File	Description
Dachklima innen Sicherungen Kondluefter.png	
Schaltplan mit Markierung.png	

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or

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Symptoms

Body > Air conditioning > Air conditioning > Insufficient cooling output
Body > Air conditioning > Air conditioning > Temperature differences
Body > Air conditioning > Air conditioning > Temperature control not sensitive enough

Control unit/fault code

Control unit	Fault text
N10*1 - Signal acquisition and actuation module - Automatic climate control (SAM) / (HVAC177)	**B107087** - The right rear blower regulator has a malfunction. The message is missing. **B106F87** - The left rear blower regulator has a malfunction. The message is missing.

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
		H	83746	

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