

48 V battery G1/3 with P0A7F00 - The age limit of the hybrid/high-voltage battery module has been reached

Topic number	LI54.10-P-078888
Version	9
Function group	54.10 - Battery, power supply, voltage converter
Date	12/2/25
Validity	Model series 177, 118, 247 with equipment code B01
Reason for change	Remedy

Complaint

The check engine light illuminates or the 48 V message is displayed in the instrument cluster

Cause

Fault code "P0A7F00" stored in the 48 V battery G1/3 and/or is current.

Remedy

1. Perform software update:

In the given problem case, update the software for the control unit G1/3 - 48 V on-board electrical system battery (48 V LIB) :

--> Remedy SW A0019020424 25/12

2. Carry out SOH reset routine:

- Switch on ignition
- Read actual value 209 in XENTRY Diagnostics at G1/3 (48 V battery) "State of Health Capacity-SOHC"

Valid for OBD markets

- If the value is > 80%, no restoration process required
- If the value is < 81%, continue with the following steps

Valid for non-OBD markets

- If the value is > 75%, no restoration process required
- If the value is < 76%, continue with the following steps

Perform capacity restoration procedure:

XENTRY Tips

- Discharge 48 V battery in vehicle with ignition "On" and check SOC of 48 V battery in the instrument cluster's workshop menu
- For SOC < 25%: Stop unloading and lock the vehicle with the key out of range; (bus idle)
- After 1.5 h of bus idle: Charging the 48V battery
- When SOC reaches or exceeds 65%, stop charging and lock the vehicle with the key out of range; (bus idle)
- After 1.5 h of bus idle: Switch on ignition

Read actual value 209 in XENTRY Diagnostics at G1/3 (48 V battery) "State of Health Capacity-SOHC"

Valid for OBD markets

- SOH > 82%: Process is complete and clear fault memory
- SOH < 83%: Repeat the steps once more.

If the value is still too low after 5 repetitions: Cancel healing process and provide feedback in TIPS case.

Attachments	
File	Description
si8285p0046a.pdf	

WIS-References		
Document number	Title	Note
SI82.85-P-0046A	Service Information: Restricting Remote Functions for maintenance and repair work	

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 groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Overall vehicle > Power supply > Battery/On-board electrical system > Battery/on-board electrical system display message > Battery/Alternator - Serviced Required
Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Display message

Control unit/fault code	
Control unit	Fault text

G1/3 - 48-V on-board electrical system battery (48 V LIB) (LIB48_177PT4)	P0A7F00 - The state of health limit of the hybrid/high-voltage battery module has been reached. _
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Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			540HY	