

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

Topic number	LI54.10-P-080288
Version	1
Function group	54.10 - Battery, power supply, voltage converter
Date	2/18/26
Validity	206 214 223 254
Reason for change	

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. Check the SOHc of A66 48V battery. (For SOHr, see LI54.10-P-080199)
2. Carry out SOHc 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
 - Discharge Powerpack in vehicle
 - At SOC < 25%: Stop discharge and bring vehicle to sleep
 - >1.5h after vehicle sleep: Start engine and charge Powerpack to SOC >65%
 - At SOC > 65%: Stop operation and bring vehicle to sleep
 - >1.5h after vehicle sleep: Turn ignition on
 - Read Diagnostic Service C0C3 (State of Health Capacity - SOHC): if

XENTRY Tips

- Capacity > 74%: You can clear fault memory. Procedure finished.
- Capacity < 74%: Repeat step 7 again. If after 2 repetitions value is still too high: Read diagnostic service FEE0 - FEE7 (Battery Analysis Protocol Part 1-8) and replace 48V Powerpack. Perform capacity restoration procedure:

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 to the HV/LV team inbox labeled "SOHc cannot be reset"

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

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note