

In the instrument cluster, the symbol for "12 V battery" and the message "Switch on vehicle" sporadically appears

Topic number	LI54.10-P-076820
Version	6
Function group	54.10 - Battery, power supply, voltage converter
Date	5/16/24
Validity	MODEL 206 up to production 12/15/23 MODEL 254 up to production 12/15/23
Reason for change	Validity change

Complaint

In the instrument cluster, the symbol for "12 V battery" and the message "Switch on vehicle" may sporadically be displayed.

As a consequence of this, the fault codes B1FCB97 (=> N73/3) and U116000 (=> N73/3*1) are stored in the fault memory.

In the subsequent analysis of the 12 V on-board electrical system data, the following parameters are noteworthy (see picture 1 in the attachment):

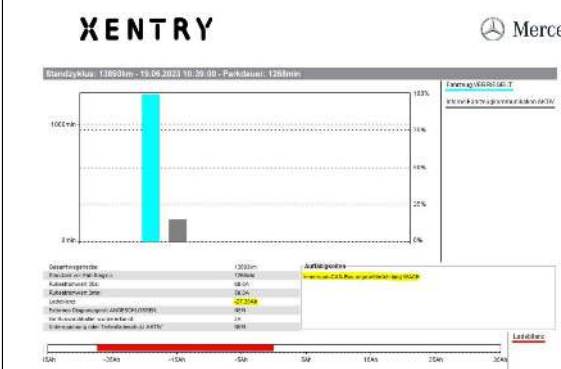
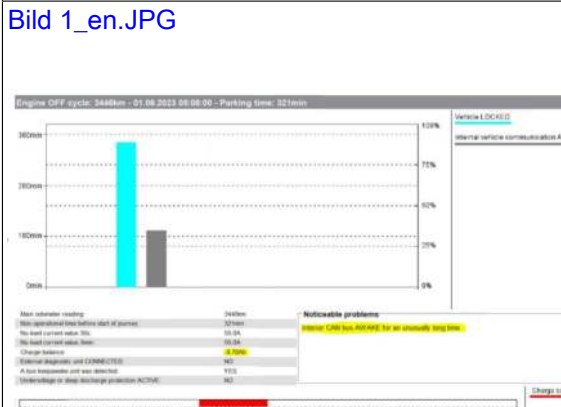
- Charge balance negative when stationary.
- Interior CAN bus is awake for an unusually long time while the vehicle was locked.
- 12 V battery SOC (state of charge) during subsequent engine start is 45% or less.

NOTE:

This LI does not apply if the CEL was reported as being on without a 12V message.

Once the 12 V battery SOC has exceeded 50% for the first time, the symbol and the message in the instrument cluster disappear again.

Attachments	
File	Description
Bild 1_de.JPG	12 V on-board electrical system data (German)

 XENTRY Mercedes-Benz Standby/Misc: 13000km - 15.09.2023 10:30:00 - Parkdauer: 120min Engine OFF cycle: 3448km - 01.09.2023 08:00:00 - Parking time: 321min Variables: DCU-XX interior CAN bus activation ACTIVE Noticeable problems: interior CAN bus activated for an unusually long time	
Bild 1_en.JPG  Engine OFF cycle: 3448km - 01.09.2023 08:00:00 - Parking time: 321min Variables: DCU-XX interior CAN bus activation ACTIVE Noticeable problems: interior CAN bus activated for an unusually long time	12 V on-board electrical system data (English)

Cause

The door control unit (N69/x) may sporadically keep the interior CAN bus awake.

NOTE: Exclusively door control units with the HW item numbers A2239019917, A2239010018, A2239010118 and A2239010218 can be affected.

Remedy

Update the software on all 4 door control units (N69/1, N69/2, N69/3 and N69/4).

For this, a commissioning of the door control units must be carried out on all 4 doors (N69/1, N69/2, N69/3 and N69/4).

(Path: XENTRY Scope; Control units view; DCU-XX (N69/x); Adaptations; Commissioning)

The repair software is available with add-on 28462 for XD DVD 09/23, with add-on 28463 for XD DVD 12/23 and/or as of XD DVD 03/24.

SW item numbers of the repair software:

- A2069020310 for the door control units at the front doors (N69/1 and N69/2)
- A2069020410 for the door control units at the rear doors (N69/3 and N69/4)

NOTE:

All work that accrues as a result of the door control unit (including battery charging process, etc.) must be invoiced via the damage code for the door control unit (7222053, 7223053, 73A3054 and/or 73N3054).

Symptoms
Overall vehicle > Power supply > Battery/On-board electrical system > Battery/on-board electrical system display message > Low voltage Charge battery

Control unit/fault code	
Control unit	Fault text
N73/3 - Electronic ignition lock (EVS) (EVS223)	B1FCB97 - The starter battery has a malfunction. The system function is restricted.
N73/3*1 - Electronic ignition lock - Central gateway (EVS) (GW223)	U116000 - A bus keepawake unit was detected. _

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			7222054	
			7223054	
			73A3054	
			73N3054	