

243 DCCU contactors stuck after charging

Topic number	LI54.10-P-079340
Version	1
Function group	54.10 - Battery, power supply, voltage converter
Date	5/27/25
Validity	243
Reason for change	

Complaint

Vehicle will not start after charging, HV warning in IC

Cause

Due to charging error from the charging EVSE the contactors for the DCCU are jammed closed and must be reset via Xentry.

Short test found fault code P154B00 in PTCU warning for stuck contactor.

Remedy

Check for new DCCU (N116/5) SW.

Perform SW update to DCCU (N116/5) via XENTRY.

Reset contactors through special procedures through N116/5.

If no new SW is available - Open TIPS case.

Please provide HV CUL and QT in TIPS case.

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 indicator lamp > Battery charge indicator/consumer shutoff > Illuminates red
Overall vehicle > Power supply > Battery/On-board electrical system > Battery/on-board electrical system display message > Battery/Alternator - Serviced Required
Power generation > Engine management > Engine start/stop > Does not start
Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Malfunction
Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Display message

Control unit/fault code	
Control unit	Fault text
N116/5 - Direct current charge connection unit (DCCU) (DCB223)	<p>P2E8B64 - The sensor for contact detection between the contact socket (direct current) and the charging cable has a sporadic malfunction. There is an implausible signal.</p> <p>P2BCC00 - The contact 'Negative terminal' of the contactor in the on-board DC current charge-connection unit is jammed closed. _</p> <p>P2BC500 - The contact 'Positive terminal' of the contactor in the on-board DC current charge-connection unit is jammed closed. _</p> <p>P0E8929 - The input current of the on-board DC charging connection unit is too high. There is an invalid signal.</p>

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