

Malfunction Indicator Lamp Lights Up With Fault Code P2E9873 in N116/5 - DC Charge-Connection Unit (DCCU)

Topic number	LI47.70-P-078563
Version	4
Function group	47.70 - Powertrain energy supply
Date	7/10/25
Validity	PHEV variants of 167, 254, 206, 214, 223
Reason for change	Updating Remedy

Complaint

- Engine diagnosis indicator lamp (MIL) lights up.

- Current and saved fault code in DCCU and powertrain control unit (PTCU):

P2E9873 The position sensor of the external socket flap of the vehicle socket (direct current) indicates an electrical fault. The actuator does not open.

- The vehicle starts or charges normally and without any problems.

Cause

Software in the control unit "N116/5 - DC charge-connection unit (DCCU)".

Remedy

For model series 167, 254 (Only for USA):

- Remedy is available:
- Update software for N116/5 (DC charging control unit box) and perform SCN coding of N116/5.
- Once the SCN coding has been updated, the engine diagnosis indicator lamp (MIL) is no longer actuated with this fault code.

For model series 214:

- Perform SCN coding of the Powertrain Control Unit (PTCU)
- If the MIL does not clear after coding, please open a TIPS case and send to the Body/Chassis/Entertainment in-box.

For other model series:

- Work on the SW remedy for N116/5 (DC charging control unit box) is in progress.

- Once the software is available, update the software for N116/5 and perform SCN coding of N116/5.
- If this problem occurs, the vehicle start or charging functions are normally not affected; therefore do not replace any parts.
- Replacing parts does not solve this problem.

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
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Overall vehicle > Cleaning system > Cleaning system indicator lamp > Washer fluid level > lit

Control unit/fault code	
Control unit	Fault text
N127 - Control unit "Drivetrain" (PTCU) (CPC3)	P2E9873 - Direct current charge connection unit : The position sensor of the exterior socket flap of the vehicle socket (direct current) has an electrical fault. The actuator does not open.
N116/5 - Direct current charge connection unit (DCCU) (DCB223)	P2E9873 - The position sensor of the exterior socket flap of the vehicle socket (direct current) has an electrical fault. The actuator does not open.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			540RK	Direct current relay box