

eSprinter model series 907: Intermittent no-start condition

Topic number	LI47.70-N-080294
Version	1
Function group	47.70 - Powertrain energy supply
Date	3/3/26
Validity	eSprinter model series 907
Reason for change	

Complaint

Intermittent no-start condition; partial restart without "Ready" status in display. Concern may be rectified after bus idle and/or circuit 30 deep reset.

Cause

As a result of inaccuracies in Battery Management System measurements, the BMS may record the following fault codes:

P0ABD00 - Battery voltage sensor A in the hybrid/high-voltage battery module has a short circuit to positive.

P0B171C - Battery voltage sensor B in the hybrid/high-voltage battery module has a short circuit to positive. The voltage value is outside the permissible range

P181D12 - The reference voltage at output A has exceeded the limit value. There is a short circuit to positive

Remedy

Perform a software update of control unit G1/9 - battery management system (BMS) (BMS907)

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 > Electric drive > Electric machine > Malfunction

Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Malfunction

Control unit/fault code

Control unit	Fault text
G1/9 - Battery management system (BMS) (BMS907)	<p>P181D12 - The limit value for reference voltage at output A has been exceeded. There is a short circuit to positive.</p> <p>P0ABD00 - Sensor A for the battery voltage in the hybrid/high-voltage battery module has a short circuit to positive. _</p> <p>P0B171C - Sensor B for the battery voltage in the hybrid/high-voltage battery module has a short circuit to positive. The voltage value is outside the permissible range.</p>

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
081470	Update the software for the high-voltage battery	0.4 H	5471990	