

## HV battery is not charging to its full capacity with restricted maximum SoC

Topic number	LI47.70-N-079422
Version	1
Function group	47.70 - Powertrain energy supply
Date	6/12/25
Validity	Applies to models 907, 910, and 447 with engine 780
Reason for change	

### Complaint

The vehicle's HV battery is not charging to its full capacity, with the maximum State of Charge (SoC) being restricted to a specific percentage (e.g., 50% as illustrated in the picture).



Attachments	
File	Description
Maximum_SoC.jpg	



## Cause

The State of Charge (SoC) percentage limitation might be influenced by the Onboard Logic Unit (OLU), MBUX Headunit, or the Powertrain Control Unit (PTCU).

## Remedy

If the Onboard Logic Unit (OLU) and MBUX Headunit do not impose a SoC percentage limitation, then proceed with the SCN coding of the Powertrain Control Unit (PTCU).

Note: During the SCN coding, the Energy Management System in the PTCU will be initialized, followed by a Soft Reset of PTCU.

## 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 > High-voltage on-board electrical system > Charging > Wallbox (Mode3/Level2) > Aborts

### Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note