

## HV contactors of HV battery open while driving and no hybrid functions active until next ignition cycle.

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Topic number	LI08.30-P-064799
Version	1
Design group	08.30 Hybrid drive system
Date	09-01-2016
Validity	MODEL 212.098/298 with ENGINE 651.9 (E300 Hybrid) and code A18 MODEL 212.095/195 with ENGINE 276.9 (E400 Hybrid) and code A18 MODEL 222.004/104 with ENGINE 651.9 (S300 Hybrid) MODEL 222.057/157 with ENGINE 276.9 (S400 Hybrid) MODEL 205.012/212 with ENGINE 651.9 (C300 Hybrid)
Reason for change	Damage code changed to 54719 TQ.

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### Complaint:

Interior air conditioning inoperative.

No hybrid functions active until next ignition cycle.

### Cause:

Internal resistance of one or more cells too high.

In isolated cases, the internal resistance of one or more cells can rise under load so that the specified limits are exceeded. This opens the HV contactors of the HV battery.

### Remedy:

Adaptation of limits in energy management system (EMM).

The engine control unit (model 212) or powertrain control unit N127 (models 222 and 205) must be updated with the latest software.

- Model 212 => Software update of engine control unit - Production OK since: 31.05.2015 (WDD2122981B214096)

- Model 222 => Software update of N127 - powertrain control unit (PTCU) - Production OK since: 14.05.2016 (WDD2220571A277932)

- Model 205 => Software update of N127 - powertrain control unit (PTCU) - Production OK since: 14.05.2016 (WDD2052121F400240)

The software is available in Xentry as of DVD 07/2016.

Important: Replacing the HV battery does not remedy the problem.

# XENTRY TIPS

Control unit/fault code		
Control unit	Fault code	Fault text
N82/2 - Battery management system (BMS) (BMS222MH)	P0DE6FA	The cell voltages of the high-voltage battery module are too low. –
N82/2 - Battery management system (BMS) (BMS222MH)	P0DE6FB	The cell voltages of the high-voltage battery module are too low. –
N82/2 - Battery management system (BMS) (BMS222MH)	P0DE7FA	The cell voltages of the high-voltage battery module are too high. –
N82/2 - Battery management system (BMS) (BMS222MH)	P0DE7FB	The cell voltages of the high-voltage battery module are too high. –
N82/2 - Battery management system (BMS) (BMS222MH)	P0CA600	The charging current of the high-voltage battery is too high. _
N82/2 - Battery management system (BMS) (BMS222MH)	P0CA700	The discharge current of the high-voltage battery is too high. _

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			54719 TQ	
54-0650	12V			
54-1011	QUICK TEST			
54-0991	SOFTWARE			