

Vehicle no longer starts due to malfunctioning 150 A fuse of HV battery

Topic number	LI54.10-P-054713
Version	1
Design group	54.10 Battery, voltage supply, voltage converter
Date	10-11-2012
Validity	Models 221.095 and 221.195 (Hybrid)
Reason for change	

Complaint:

- Combustion engine can no longer be started.
- A battery fault message appears in instrument cluster.
- Fault code "current and stored" in battery management system control unit (SG-BMS) (see control unit fault code).

Cause:

Thermomechanical loads can lead to the failure of the 150 A fuse in the HV battery. In this state when a start attempt is made, activation of the HV contactor in the HV battery is suppressed and it is not possible to start the vehicle.

Remedy:

Replace HV battery..

Symptoms
Overall vehicle / Power supply / High-voltage on-board electrical system battery / Nonfunctional
Overall vehicle / Power supply / High-voltage on-board electrical system battery / Display message

Control unit/fault code		
Control unit	Fault code	Fault text
SG-BMS-Battery management system control unit (BMS221)	0AA700	The ohmmeter for insulation resistance in the high-voltage battery module has an electrical fault.
SG-BMS-Battery management system control unit (BMS221)	0C7800	The precharging time of the high-voltage on-board electrical system is too long.
SG-BMS-Battery management system control unit (BMS221)	0A1F04	There is an internal fault in control unit 'Battery'. There is an internal fault.

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 221 343 03 00			LI-ION BATTERY			X	

A 221 343 04 00			LI-ION BATTERY			X	
A 221 343 05 00			LI-ION BATTERY			X	
A 221 343 09 00			LI-ION BATTERY			X	
A 221 343 11 00			LI-ION BATTERY			X	

WIS-References			
Document number	Title	Note	Allocation
AR54.10-P-1140SXH	Remove/install high-voltage battery		Remedy