

Fault in 12 V interlock circuit

Topic number	LI27.00-P-072627
Version	1
Function group	27.00 - General
Date	3/16/21
Validity	MODEL 167.117/154/317/354, MO- DEL 205, MODEL 253, MODEL 213.011/016/050/053/054/153/155/211/216/253, MO- DEL 222 with engine M274/M276 and with transmission 725.017/725.037/725.047 and code ME05 (Hybrid drive 85 kW-94 kW variant (incl. plug-in))
Reason for change	

Complaint

On vehicles with TRANSMISSION 725.017/725.037/725.047 and a TRANSMISSION ID between 7250**03496707 and 7250**03722656, due to loss of contact at the 12 V connector coupling of the interlock circuit it might not be possible to start the vehicle again when an ignition off/on or drive range change is performed after a safe shutdown.

A red message "Visit workshop. Do not change gear" is displayed in the instrument cluster as well as a red HV battery message.

Fault codes relating to the interlock might be stored in the HV battery, OBL and power electronics control units.

Cause

The pins or connector of the interlock's 12 Volt connector coupling

Example pictures in the attachment.

Attachments	
File	Description
PIN-s_en.jpg	
PIN-s_de.jpg	

Remedy

Please check the pins of the 12 Volt interlock wiring harness A 725 540 00 00 for TRANSMISSIONS 725.017/725.037/725.047 and transmission IDs between 7250**03496707 and 7250**03722656,

Please follow AR08.10-P-0028OLC if the harness requires replacement.

Please use the following damage code for the repair!

XENTRY TIPS

WIS-References		
Document number	Title	Note
AR08.10-P-0028OLC	Remove/install interlock line	Observe the safety notes!

Symptoms
Power transmission > Automatic transmission > Function > Malfunction
Power transmission > Automatic transmission > Function > No power flow
Power transmission > Automatic transmission > Function > Electrical fault/Fault code
Power transmission > Function > No power flow
Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Malfunction
Overall vehicle > Power supply > High-voltage on-board electrical system > High-voltage battery > Display message

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A7252713601			Intermediate panel	1		X
A7252723402			Sealing ring	2		X
A7253430200			Cover	1		X
A725540000064			Wiring harness	1		X
A7255450500			Housing gasket	3		X
A002989060309			Transmission oil sheet 236.17	nach Bedarf	Specifications for Operating Fluids	X

Control unit/fault code	
Control unit	Fault text
N129/1 - Power electronics (SG-EM)	
N129/1 - Power electronics (SG-EM)	
N83/11 - Charger (SG-LG)	
N83/11 - Charger (SG-LG)	
N83/11 - Charger (SG-LG)	
N83/11 - Charger (SG-LG)	
N83/11 - Charger (SG-LG)	
N83/5 - Charger (SG-LG)	
N83/5 - Charger (SG-LG)	
N83/5 - Charger (SG-LG)	
N83/5 - Charger (SG-LG)	
N82/2 - Battery management system (BMS)	
N82/2 - Battery management system (BMS)	
N82/2 - Battery management system (BMS)	
N82/2 - Battery management system (BMS)	
N129/1 - Power electronics (SG-EM)	
N129/1 - Power electronics (SG-EM)	

Operation numbers/damage codes

XENTRY TIPS

Op. no.	Operation text	Time	Damage code	Note
			5423F74	Wiring harness, hybrid drive electric motor interlock