

Front turn signal inoperative

Topic number	LI82.10-P-066270
Version	1
Design group	82.10 Exterior lights
Date	05-22-2017
Validity	Model 463 up to VIN end number X226541
Reason for change	
Reason for block	

Complaint:

- The front left or right turn signal is inoperative
- Display in the instrument cluster referring to turn signal operation
- The turn signal flash frequency is increased
- Fault code B163A11 or B163E11 is current or is stored in the front SAM control unit

The complaint is no longer present when the ignition has been switched off and on

Cause:

Due to tolerances in the bulbs of the front turn signals, the front SAM control unit erroneously detects a short circuit to ground. There is no actual short circuit, however.

Remedy:

Note: This procedure only applies to vehicles up to VIN X226541 (without LED side marker lamps). For vehicles as of VIN X226542 (with LED side marker lamps), please see LI82.10-P-066271

1. Disconnect ground line of battery.
2. Convert to LED side marker lamps at right and left front (A, Picture 1).
 - 2.1 To do so, partially release the front wheel arch liner and replace the electrical connector (C, Picture 1) on the vehicle wiring harness including the connector pins. Pay attention to wire colors and connector assignments!
3. Convert to LED side marker lamps at right and left rear (B, Picture 2).
 - 3.1 To do so, replace the electrical connector (C, Picture 2) on the vehicle wiring harness including connector pins (C, Picture 2). Pay attention to wire colors and pin assignments!
4. Replace front SAM control unit (AR54.21-P-1254GW).

Note: Do not assemble vehicle until after successful commissioning of the front signal acquisition and actuation module (SAM-F)

5. Connect XENTRY/DAS.
6. Update SAM-F control unit software. To do so, select menu item "Quick test view – Front signal acquisition and actuation module (SAM-F) – Adaptations – Control unit update – Update of control unit software". Then follow the user guidance in XENTRY Diagnostics/DAS.

XENTRY TIPS

7. Disconnect XENTRY/DAS.

8. Assemble in reverse order.

Attachments	
File	Description
Picture 1.jpg	Front side marker lights
Picture 2.jpg	Rear side marker lights

Symptoms
Overall vehicle / Lighting / Exterior lights / Turn signal/hazard warning lights / Indicator lamp / Turn signal indicator / lit
Overall vehicle / Lighting / Exterior lights / Turn signal/hazard warning lights / Indicator lamp / Turn signal indicator / Flashes rapidly
Communication/information / Information display / Displays / Multifunction display / Multifunction display, error messages / Implausible messages despite properly functioning message systems
Overall vehicle / Lighting / Exterior lights / Turn signal/hazard warning lights / Indicator lamp / Turn signal indicator / Nonfunctional
Overall vehicle / Lighting / Exterior lights / Turn signal/hazard warning lights / Indicator lamp / Turn signal indicator / Flashes irregularly
Overall vehicle / Lighting / Exterior lights / Turn signal/hazard warning lights / Turn signal lights / Nonfunctional
Communication/information / Information display / Displays / Multifunction display / Multifunction display, error messages / Drivetrain - Malfunction (white warning message)

Control unit/fault code		
Control unit	Fault code	Fault text
N10 - Signal acquisition and actuation module (SAM) (CBC)	B163A11	The output for the left front turn signal lamp has a malfunction. There is a short circuit to ground.
N10 - Signal acquisition and actuation module (SAM) (CBC)	B163E11	The output for the right front turn signal lamp has a malfunction. There is a short circuit to ground.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 906 48 04			Marker lamp	2	Front LED side marker lamps	X
A 000 906 49 04			Marker lamp	2	Rear LED side marker lamps	X
A 156 900 77 02			CU COMPL SAM	1	Front SAM (CBC)	X
A 000 545 69 80			Rubber ring	8	Connector seal	X
A 008 545 63 26			Plug	8	Contact socket	X
A 210 540 20 81			Pin bushing housing	4	Receptacle housing - wiring harness connector	X

WIS-References			
Document number	Title	Note	Allocation

XENTRY TIPS

AR54.21-P-1254GW	Remove / install front SAM control unit		Remedy
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Attachments

Picture 1.jpg:



Picture 2.jpg:

