

Corrosion at electrical connecting point between front bumper and interior (X174/1)

Topic number	LI54.18-P-056220
Version	9
Function group	54.18 Cable harnesses
Date	01-22-2019
Validity	Model 166
Reason for change	Text revised and validity adjusted.
Reason for block	

Complaint:

Possible Complaints:

- 1) Various faults in the suspension CAN are logged in the quick test.
- 2) Under certain circumstances it may not be possible to start or switch off the vehicle.
- 3) Interference of Parktronic.

Cause:

Corrosion may have occurred at the connecting point X174/1 from the front bumper to the interior wiring harness.

Attachments	
File	Description
CIMG3906.JPG	Corrosion at connecting point X174/1

Remedy:

1. Replace connecting point X174/1.
2. Reinstall all contacts and replace connector housing on interior wiring harness.
3. If the conductor in the line itself exhibits corrosion, cut it off until there is enough bare (uncorroded) copper for crimping. If the line length is no longer sufficient, lengthen it accordingly.
4. Replace bumper wiring harness. NOTE: Determine part number of bumper wiring harness in EPC in 88.030 under item 250, because this depends on the equipment installed.

To provide additional protection to the connecting point against further water entry:

- The corresponding cap should be adjusted as shown in the picture "cable duct.jpg".
- Due to its situation, the cable duct must be cut off and deburred as shown in the picture.
- After this, the cover can be placed at the appropriate connecting point (see picture: "Installation.jpg")

Attachments	
File	Description
Installation.jpg	Installation of cap

Symptoms

Power generation / Engine management / Engine running / Does not turn off/delay in turning off

XENTRY TIPS

Communication/information / Assistance and warning systems / Parking assist / PARKTRONIC / Malfunction of displays / General
Communication/information / Assistance and warning systems / DISTRONIC / Function / Warning message in instrument cluster
Overall vehicle / Networking / CAN/FlexRay communication / Malfunction
Power generation / Engine management / Engine start/stop / Does not start
Communication/information / Assistance and warning systems / Brake Assist / Warning message in instrument cluster

Control unit/fault code		
Control unit	Fault code	Fault text
A80 - Shift module (ISM) (DSM)	U041587	Implausible data were received from control unit 'ESP®'. The message is missing.
A80 - Shift module (ISM) (DSM)	U04158F	Implausible data were received from control unit 'ESP®'. The signal or message is erratic.
N128 - Electric parking brake (EFB) (EPKB166)	U102700	Chassis CAN bus OFF fault
N62 - Parking system (PTS) (PTS218)	U042300	Implausible data were received from the instrument cluster. _
N128 - Electric parking brake (EFB) (EPKB166)	U014600	CAN signal 'Outside temperature' from control unit 'N10 (SAM control unit)' or CAN signal 'Reverse gear' from control unit 'Engine' is implausible.
N128 - Electric parking brake (EFB) (EPKB166)	U103200	Chassis CAN communication has a malfunction.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 001 545 50 80			ELA MLK 1.2 in yellow	8		X
A 000 545 71 80			ELA SLK 2.8 in blue	4		X
A 000 545 78 80			Blind plug, green	2		X
A 029 545 09 26			Connector housing	1	X174/1 on vehicle side of wiring harness	X
A 000 982 28 26			Female contact MLK 1.2	8	X174/1 on vehicle side of wiring harness for pins: 1, 2, 3, 4, 11, 12, 13, 14	X
A 009 545 80 26			Female contact SLK 2.8	4	X174/1 on vehicle side of wiring harness for pins: 5, 6, 7, 8	X
			Bumper wiring harness	1	Bumper wiring harness depends on optional equipment installed and can be determined in EPC with the relevant VIN	
A 000 150 22 15			Cap	1	The front part of the cable duct must be cut off prior to installation, as shown in the picture.	X

XENTRY TIPS

Attachments	
File	Description
Cable duct.jpg	Modification of cap

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			51B0C 74	K/Z* front bumper inner left radar sensor
			51P0C 74	K/Z* front bumper inner right radar sensor

WIS-References			
Document number	Title	Note	Allocation
AR00.19-P-0100A	Wiring harness general repair methods		Remedy
AR00.19-P-0001A	Repair wiring harness in accordance with specified repair method		Remedy
AR88.10-P-1310GQ	Remove/install front section of fender liner in front fender		Remedy
AR88.20-P-2050GQ	Disassemble/assemble front bumper		Remedy
AR88.20-P-2000GQ	Remove/install front bumper		Remedy

Attachments

XENTRY TIPS

CIMG3906.JPG:



Cable duct.jpg:



XENTRY TIPS

Installation.jpg:

