Supplemental restraint system (SRS) lamp in instrument cluster lights up; fault code B000213 and/or B000113 is logged in the SRS control unit

Topic number	LI91.60-P-058226
Version	1
Design group	91.60 Airbag, pedestrian protection
Date	01-13-2014
Validity	Model series 176 A-Class Model series 242/246 B-Class Model series 117 CLA Production up to end of 09/2013
Reason for change	Repair method revised again, links added
Reason for block	

Complaint:

SRS lamp in instrument cluster lights up
Fault code B000113 "The squib for the driver airbag (stage 1) has a malfunction. There is an open circuit."
and/or
Fault code B000213 "The squib for the driver airbag (stage 2) has a malfunction. There is an open circuit."
are stored in the SRS control unit.

Cause:

Contact between interior wiring harness and steering column tube switch module (steering column tube switch module connector no.1), see attachment 1, item "1"
The exact cause is still being analyzed.

Remedy:

Check resistance of ignition circuit using XENTRY Diagnostics:
SRS control unit -> Ignition circuits -> Airbags for driver and front passenger -> Actual values
If one of the actual values is in the upper specified value range -> Further tests as described in Xentry DAS.
Even If the actual values are OK -> Replace the contacts between the interior wiring harness and the steering column tube switch module (attachment 1, item "1"):
1.) Replace contacts
- Create access to connector and separate from steering column tube switch module - See AR54.25-P-2802NKB Remove/install steering column tube module
- Cut cable tie directly at guide of connector (see attachment 2, item "3").
- Open secondary lock of connector (see attachment 2, item "4").
Important: Repair each line individually in order to avoid mixing up the lines.
- Unpin and replace contacts at steering column tube switch module connector 1, pins 8; 9; 10 and 11.
Note: These contacts are MLK1.2S contacts. Please use the appropriate unpinning tool from the wiring harness repair kit
Removal tool: W 220 589 01 99 25
Wire stripper: W 220 589 01 99 40
Crimper: W 220 589 01 99 10

© Copyright Daimler AG

Crimping die: W 220 589 01 99 83

Replacement contacts are supplied with a cable tail.

Connect these contacts to vehicle wiring harness using solder connectors (see AR00.19-P-0100A "Wiring harness - General repair methods" and AR00.19-P-0100-09A "Repairing wiring harness using solder connectors").

- Assemble the connector in the reverse order.

When doing so, makes sure that the secondary lock (see attachment 2, item "4") is fitted and the cables are fixed in place with the cable tie (see attachment 2, item "3").

2.) Check that the edge clip is correctly positioned and firmly locked (see attachment 1, item "2").

3.) Engage plug connection and attach lead seal

Note: When connecting the plug connection to the steering column tube switch module, make sure that the plug connection can be felt and heard to lock.

If the fault reoccurs, please report this via PTSS case.

Attachments	
File	Designation
Anhang 1.pdf	Position of connector and edge clip
Anhang 2.pdf	Position of cable tie and secondary lock

Symptoms
Body / Safety system / Airbag/Supplemental restraint system SRS / Indicator lamp / SRS indicator lamp / lit
Body / Safety system / Airbag/Supplemental restraint system SRS / SRS and AKSE / Shows malfunction
Body / Safety system / Airbag/Supplemental restraint system SRS / Indicator lamp / Airbag / lit

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 001 545 93 73			Lock	1	Lock on plug coupling on steering column tube switch module	X	
A 000 823 02 45			Lead seal	1	Lead seal on plug coupling on steering column tube switch module	X	
A 001 540 87 05			RS crimp contact	4	MLK1.2S contact, silver with gel	X	
A 002 546 13 41			Line connector	4	Solder connector for 0.5 mm²	X	

Work units

Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST		51600 74	Connector/line*, steering column tube switch module, contact fault/open circuit
54-0765	CHECK WIRING HARNESS FOR .... (AFTER QUICK TEST)		51600 74	Connector/line*, steering column tube switch module, contact fault/open circuit

© Copyright Daimler AG

54-7989	DETACH/ATTACH GROUND CABLE OF ON-BOARD ELECTRICAL SYSTEM BATTERY (FOR REPAIR WORK)		51600 74	Connector/line*, steering column tube switch module, contact fault/open circuit
54-9204	REPAIR ELECTRICAL LINE FOR		51600 74	Connector/line*, steering column tube switch module, contact fault/open circuit
46-7681	REPLACE STEERING COLUMN TUBE SWITCH MODULE		51600 74	Connector/line*, steering column tube switch module, contact fault/open circuit

WIS-References

Document number	Title	Note	Allocation
AR00.19-P-0100A	Wiring harness general repair methods		Remedy
AR00.19-P-0100-09A	Repair wiring harness using solder connectors		Remedy
AR54.25-P-2802NKB	Remove/install steering column module	MODEL 117, 156, 176, 242, 246	Remedy

Validity

Vehicle	Engine	Transmission
A (176) <176.*>	*	*
B (242, 246) <242.*>	*	*
B (242, 246) <246.*>	*	*
CLA (117) <117.*>	*	*

Full model designation breakdown

Vehicle	Engine	Transmission
117.301	651.901	711.642
117.301	651.901	724.003
117.303	651.930	724.003
117.312	607.951	711.632
117.312	607.951	724.020
117.342	270.910	711.632
117.342	270.910	711.643
117.342	270.910	724.002
117.343	270.910	711.643
117.343	270.910	724.002
117.344	270.920	724.003
117.345	270.920	724.003
117.346	270.920	724.011
117.352	133.980	724.015
176.000	651.901	711.642

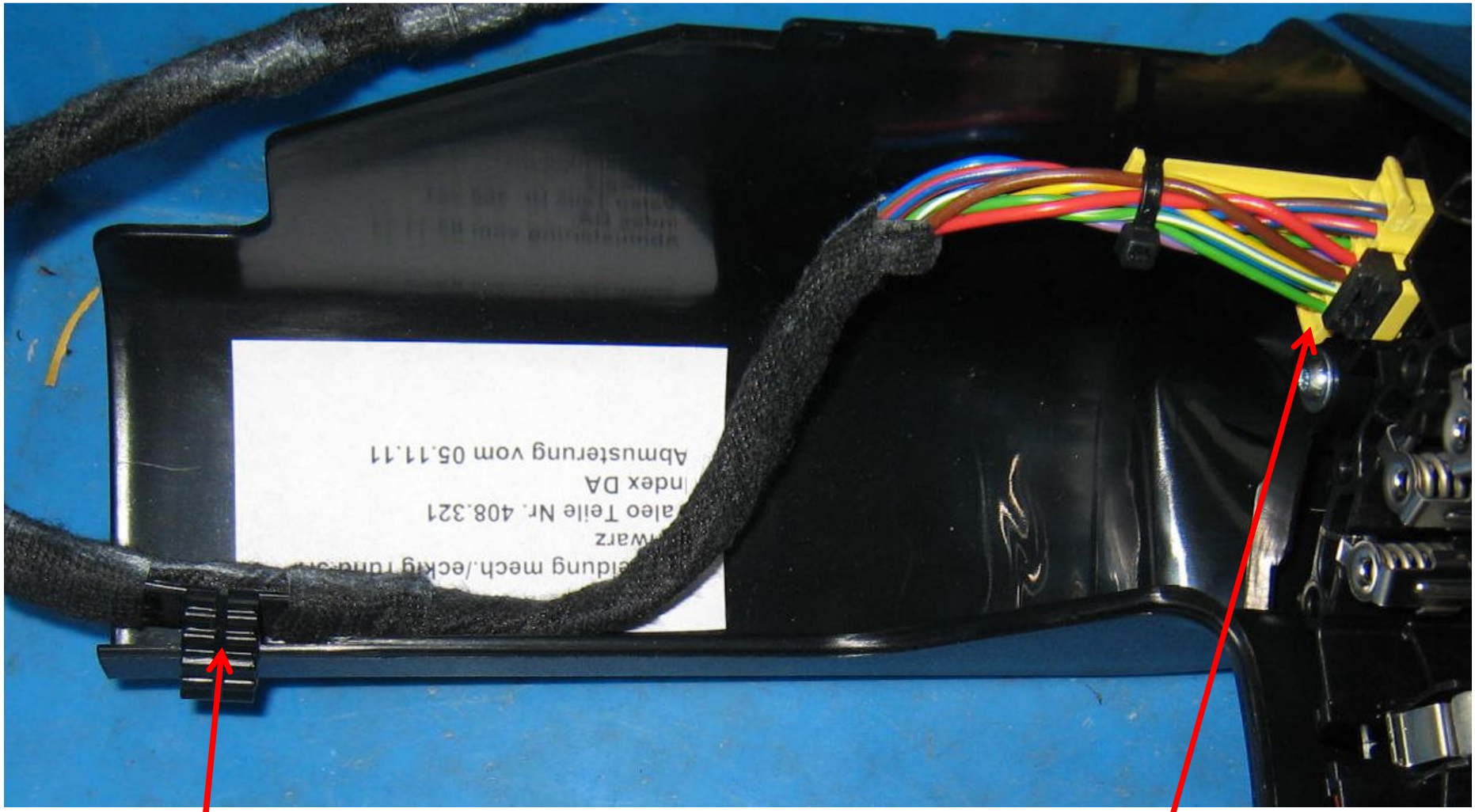
© Copyright Daimler AG

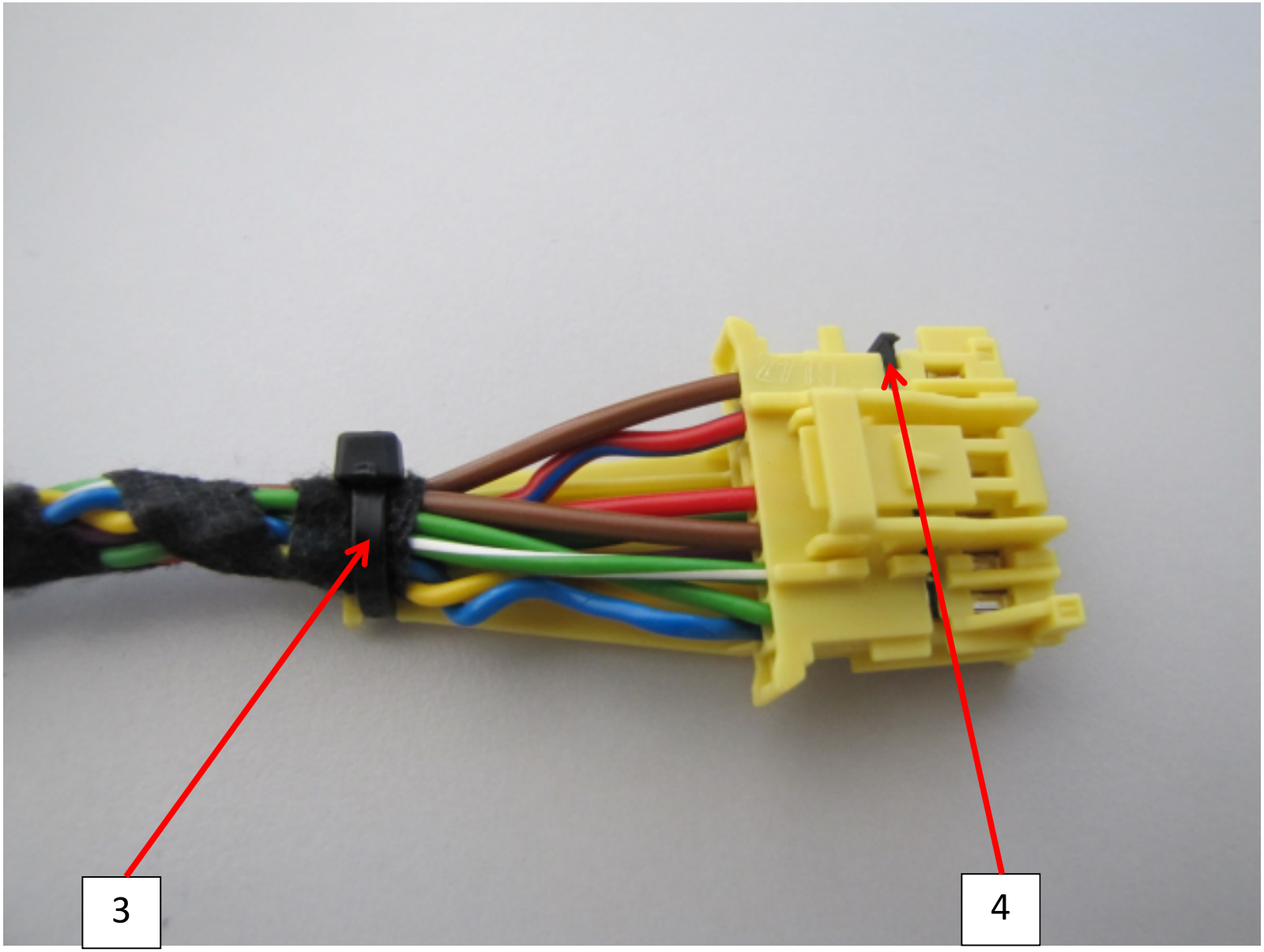
176.000	651.901	724.003
176.001	651.901	711.642
176.001	651.901	724.003
176.002	651.930	724.011
176.003	651.930	724.003
176.005	651.930	724.011
176.007	651.930	711.645
176.007	651.930	724.003
176.008	651.930	711.645
176.008	651.930	724.003
176.011	607.951	711.632
176.011	607.951	711.645
176.011	607.951	724.020
176.012	607.951	711.632
176.012	607.951	711.645
176.012	607.951	724.020
176.042	270.910	711.632
176.042	270.910	711.643
176.042	270.910	724.002
176.043	270.910	711.643
176.043	270.910	724.002
176.044	270.920	724.003
176.046	270.920	724.011
176.052	133.980	724.015
242.848	270.920	711.632
242.848	270.920	724.003
246.200	651.901	711.642
246.200	651.901	724.003
246.201	651.901	711.642
246.201	651.901	724.003
246.203	651.930	724.003
246.207	651.930	711.645
246.207	651.930	724.003
246.211	607.951	711.632
246.211	607.951	724.020
246.212	607.951	711.632
246.212	607.951	724.020
246.242	270.910	711.632
246.242	270.910	711.643
246.242	270.910	724.002
246.242	270.910	724.003
246.243	270.910	711.643
246.243	270.910	724.002

© Copyright Daimler AG

246.243	270.910	724.003
246.244	270.920	724.003
246.247	270.920	724.011

© Copyright Daimler AG


2
1


3
4