
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	2
Design group	91.60 Airbag, pedestrian protection
Date	10-23-2014
Validity	Model series 176 A-Class Model series 242/246 B-Class Model series 117 CLA Produced in Rastatt until end of 09/2013; produced in Valmet until end of 11/2013 Model series 205 from production startup to end of 06/2014 Model series 166 from production startup to end of 2014
Reason for change	Validity updated; validity for model series 166 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.

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: A 220 589 01 99 25

Wire stripper: A 220 589 01 99 40

Crimper: A 220 589 01 99 10

Crimping die: A 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, make 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 immediately to the relevant MPC via the TIPS Case Module.

Attachments	
File	Description
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
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 mm ²	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

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
117.301	*	*
117.303	*	*
117.312	*	*
117.342	*	*
117.343	*	*
117.344	*	*
117.345	*	*
117.346	*	*
117.352	*	*
176.000	*	*
176.001	*	*
176.002	*	*
176.003	*	*
176.005	*	*
176.007	*	*
176.008	*	*
176.011	*	*
176.012	*	*
176.042	*	*
176.043	*	*
176.044	*	*
176.046	*	*
176.052	*	*

242.848	*	*
246.200	*	*
246.201	*	*
246.203	*	*
246.207	*	*
246.211	*	*
246.212	*	*
246.242	*	*
246.243	*	*
246.244	*	*
246.247	*	*
C (205)	*	*
GL (166)	*	*
M (166)	*	*

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
117.352	133.980	724.016
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903
166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.056	276.821	725.031
166.057	276.955	722.906

166.057	276.955	725.031
166.058	276.955	722.906
166.058	276.955	725.031
166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.073	278.928	725.033
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.856	276.821	725.031
166.864	276.821	722.904
166.864	276.821	725.031
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.872	278.928	725.033
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.873	278.928	725.033
166.874	157.982	722.905
166.874	157.982	722.931
176.000	651.901	711.642
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
176.052	133.980	724.016
205.002	651.921	716.754
205.002	651.921	722.908
205.002	651.921	725.011
205.003	651.921	716.754
205.003	651.921	722.908
205.003	651.921	725.011
205.004	651.921	716.754
205.004	651.921	722.908
205.004	651.921	725.011
205.007	651.921	716.754
205.007	651.921	725.011
205.008	651.921	716.754
205.008	651.921	722.908
205.008	651.921	725.011
205.009	651.921	716.754
205.009	651.921	722.965
205.012	651.921	716.754
205.012	651.921	724.208
205.012	651.921	725.011
205.036	626.951	716.700
205.036	626.951	722.993
205.037	626.951	716.700
205.037	626.951	722.993
205.040	274.910	716.702
205.040	274.910	722.995
205.040	274.910	725.011
205.042	274.920	716.702
205.042	274.920	722.995
205.042	274.920	725.011
205.045	274.920	716.702
205.045	274.920	722.995
205.045	274.920	725.011

205.048	274.920	716.702
205.048	274.920	722.994
205.048	274.920	725.011
205.049	274.920	716.702
205.049	274.920	722.969
205.066	276.823	722.961
205.066	276.823	725.041
205.086	177.980	722.930
205.087	177.980	722.930
205.140	274.910	722.995
205.140	274.910	725.011
205.142	274.920	722.995
205.142	274.920	725.011
205.145	274.920	722.995
205.145	274.920	725.011
205.204	651.921	716.750
205.204	651.921	722.908
205.204	651.921	725.011
205.207	651.921	716.750
205.207	651.921	725.011
205.208	651.921	716.750
205.208	651.921	722.908
205.208	651.921	725.011
205.209	651.921	722.965
205.212	651.921	716.750
205.212	651.921	724.208
205.212	651.921	725.011
205.236	626.951	716.700
205.236	626.951	722.993
205.237	626.951	716.700
205.237	626.951	722.993
205.240	274.910	716.702
205.240	274.910	722.995
205.240	274.910	725.011
205.242	274.920	716.702
205.242	274.920	722.995
205.242	274.920	725.011
205.245	274.920	716.702
205.245	274.920	722.995
205.245	274.920	725.011
205.247	274.920	716.702
205.247	274.920	722.995
205.247	274.920	724.295

205.266	276.823	722.961
205.266	276.823	725.041
205.286	177.980	722.930
205.287	177.980	722.930
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	711.645
246.212	607.951	724.020
246.242	270.910	711.632
246.242	270.910	711.643
246.242	270.910	724.002
246.243	270.910	711.643
246.243	270.910	724.002
246.243	270.910	724.003
246.244	270.920	724.003
246.247	270.920	724.011



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