

## XENTRY

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<br>Model series 242/246 B-Class<br>Model series 117 CLA<br>Produced in Rastatt until end of 09/2013; produced in Valmet until end of 11/2013<br><br>Model series 205 from production startup to end of 06/2014<br><br>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 <sup>2</sup>                         | 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 .....<br>..... (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 | *      | *            |

# XENTRY

|          |   |   |
|----------|---|---|
| 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      |



# XENTRY

|         |         |         |
|---------|---------|---------|
| 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 |

# XENTRY

|         |         |         |
|---------|---------|---------|
| 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 |



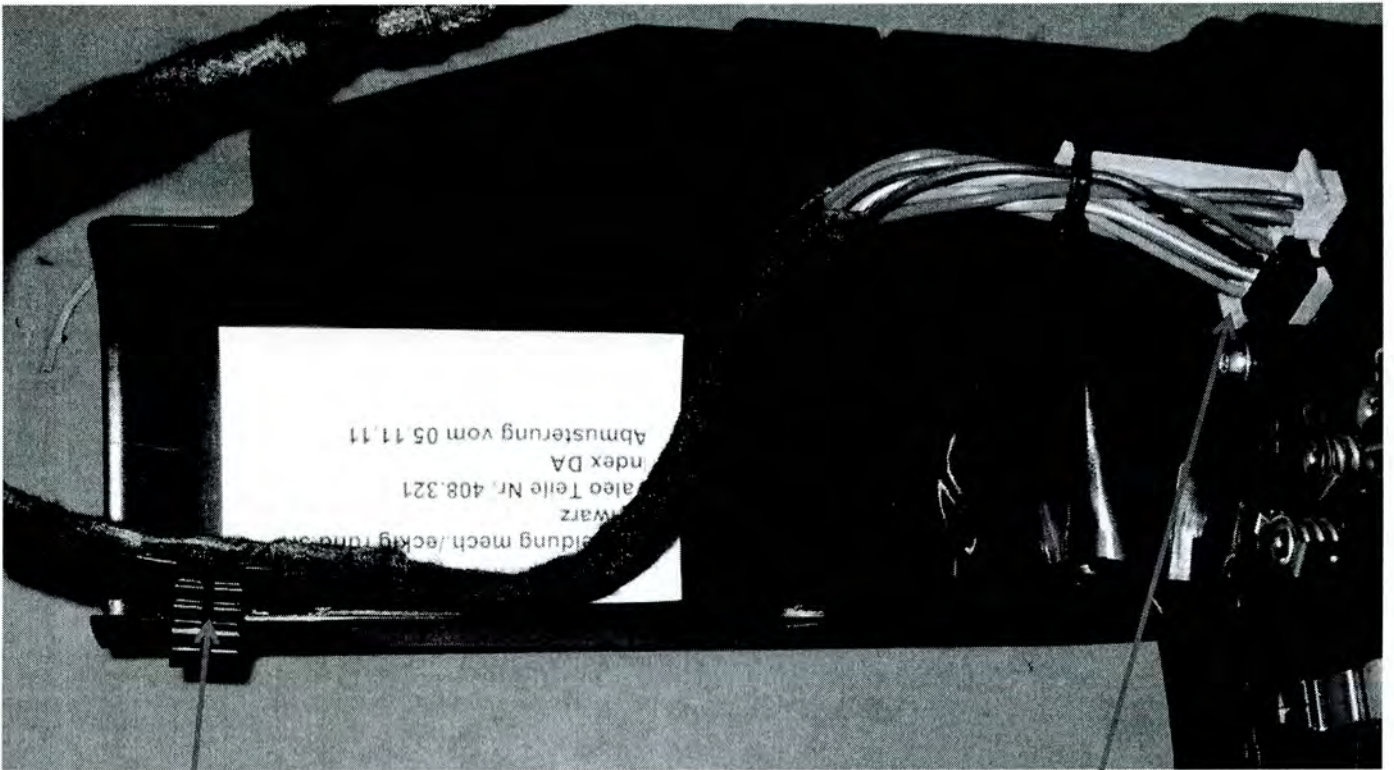
# XENTRY

|         |         |         |
|---------|---------|---------|
| 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 |

## XENTRY

|         |         |         |
|---------|---------|---------|
| 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 |





2

1

