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34/13 ENU 6689

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SportDesign Exterior Mirrors (I-no. 529)

Revision: This bulletin replaces bulletin Group 6, #34/13, dated October 30, 2015.

Labor time 66796191 was replaced with Labor time 66796280.

Model Year: As of 2014 up to 2016

Concern: Retrofitting

Note: SportDesign exterior mirror with V-shaped mirror base (manually retractable).



Parts Info:

SportDesign mirrors, left-hand drive (LHD), USA/Canada set

991.044.801.40

⇒ Basic version

991.044.801.41

⇒ Anti-dazzle (I-no. 256)

Parts List:

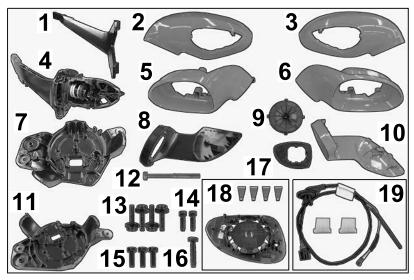


Figure 2

| 991.731.221.00 | 1 x | Lower bracket, LHD/L \Rightarrow Figure 2-1- |
|-----------------------------|-----|---|
| 991.731.222.00 | 1 x | Lower bracket, LHD/R (not shown) |
| 991.731.629.00 G2L | 1 x | Upper part of housing, LHD/L \Rightarrow Figure 2 -2- |
| 991.731.630.00 G2L | 1 x | Upper part of housing, LHD/R \Rightarrow Figure 2-3- |
| 991.731.229.00 | 1 x | Mirror base, LHD/L \Rightarrow Figure 2-4- |
| 991.731.230.00 | 1 x | Mirror base, LHD/R (not shown) |
| 991.731.631.00 G2L | 1 x | Housing frame, LHD/L \Rightarrow Figure 2-5- |
| 991.731.632.00 G2L | 1 x | Housing frame, LHD/R \Rightarrow Figure 2 - 6- |
| 991.731.519.00 | 1 x | Amplifier plate, LHD/L \Rightarrow <i>Figure 2-7-</i> |
| 991.731.729.00 G2L | 1 x | Left cover ⇒ Figure 2-8- |
| 7PP.959.578.B | 2 x | Mirror adjusting motor without memory \Rightarrow <i>Figure 2</i> -9- |
| 7PP.959.578.C | 2 x | Mirror adjusting motor with memory (not shown) |
| 991.731.730.00 G2L | 1 x | Right cover \Rightarrow Figure 2-10- |
| 991.731.520.00 | 1 x | Amplifier plate, LHD/R \Rightarrow <i>Figure 2</i> -11- |
| | 1 x | Set of screws consisting of: 2 x oval-head screws (M3 x 38) ⇒ Figure 2-12-, |
| | | 8 x oval-head screws (3 x 14) \Rightarrow Figure 2-13-, |
| | | 4 x oval-head screws (3 x 12) \Rightarrow Figure 2-14-, |
| | | 6 x oval-head screws (3 x 10) \Rightarrow Figure 2-15-, 2 x oval-head screws (3 x 16) \Rightarrow Figure 2-16- |
| 991.731.833.00 | 1 x | Lower seal, left (not shown) |
| 991.731.834.00 | 1 x | Lower seal, right ⇒ Figure 2-17- |
| 991.622.711.00 ¹ | 2 x | Wire harness \Rightarrow Figure 2 -19- |
| 991.622.712.00 ¹ | 2 x | Wire harness with memory (not shown) |
| | | |

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| 991.622.713.00 ² | 2 x | Wire harness, automatic dimming (not shown) |
|-----------------------------|-----|--|
| 991.622.714.00 ² | 2 x | Wire harness, memory and automatic dimming (not shown) |
| 991.731.045.00 ¹ | 1 x | Mirror glass, LHD/L, flat (not shown) |
| 991.731.048.01 ¹ | 1 x | Mirror glass, LHD/R, convex, USA (not shown) |
| 991.731.045.02 2 | 1 x | Mirror glass, LHD/L, flat, automatic dimming (not shown) |
| 991.731.048.04 2 | 1 x | Mirror glass, LHD/R, convex, USA automatic dimming (not |
| | | shown) |

¹ Only in set 991.044.801.40

Work Procedure: 1 Paint SportDesign exterior mirrors as described in the Paint Manual.

- 2 Connect a battery charger. ⇒ Workshop Manual '2X00IN Battery trickle charging'
- 3 Remove rear-view mirror at the left and right. ⇒ Workshop Manual '668919 Removing and installing rear-view mirror'
- 4 Assemble SportDesign exterior mirror.
 - 4.1 Install wire harness.
 - 4.1.1 Guide wire harness \Rightarrow Figure 3-1-through the bores \Rightarrow Figure 3-2 and 3- on the mirror base.

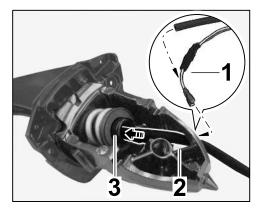


Figure 3

² Only in set 991.044.801.41

Distance between connector ⇒ Figure 4 -1- and bore ⇒ Figure 4 -2- on mirror base: X = 46 cm

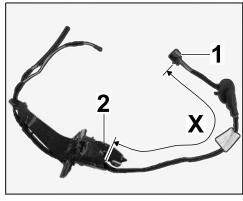


Figure 4

4.1.2 Fit wire harness \Rightarrow Figure 5 -1- in the mirror base \Rightarrow Figure 5 -2-.

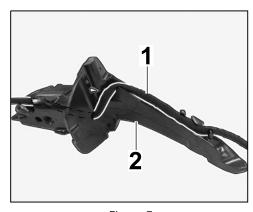


Figure 5

4.2 Carefully join left cover and upper part of housing.

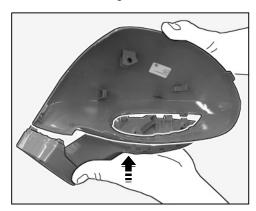


Figure 6

Locking lugs \Rightarrow *Figure 7*-**arrows**- must lock with an audible click.

- 4.2.1 Check gap dimensions.
- 4.3 Install lower bracket and mirror base.

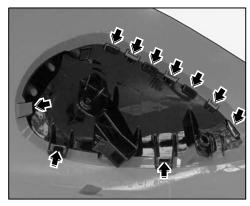


Figure 7

4.3.1 Insert lower bracket ⇒ Figure 8 -1into the guide ⇒ Figure 8 -arrowfor the left cover (upper part of
housing).

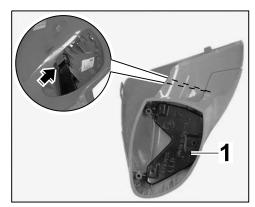


Figure 8

4.3.2 Insert mirror base \Rightarrow Figure 9-1-into the guide \Rightarrow Figure 9-arrowfor upper part of housing.

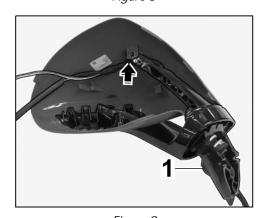


Figure 9

4.3.3 Secure lower bracket with two fastening screws (3 x 12) \Rightarrow Figure 10-1-.

Secure mirror base with three fastening screws (3 x 10) \Rightarrow Figure 10-2-.

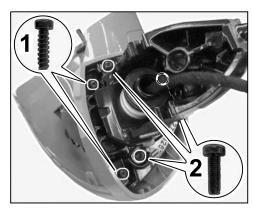


Figure 10



Information

Illustration shows exterior mirror with mirror heating without automatic dimming.

- 4.4 Install amplifier plate.
 - 4.4.1 Position amplifier plate ⇒ Figure 11
 -1- on the lower bracket and mirror base. Guide adjusting motor lines (shrink-fit hose) through the slot.

Guide mirror heating lines \Rightarrow *Figure* 11-3- under the amplifier plate.

- 4.4.2 Secure amplifier plate with fastening screws (3 x 14) \Rightarrow Figure 11-2-.
- 4.5 Insert socket contacts into plug socket.
 - 4.5.1 Pull off protective tube \Rightarrow Figure 12 -1- (\Rightarrow Figure 12 -arrow-).

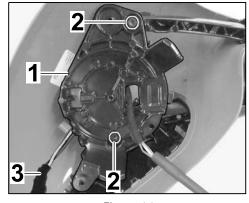


Figure 11

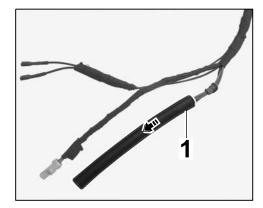


Figure 12

4.5.2 Version: Mirror adjusting motor (3-pin plug socket) \Rightarrow Figure 13-1-.

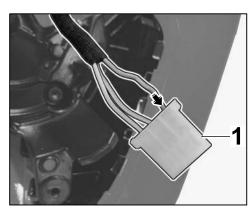


Figure 13

| Color of wire | Chamber |
|---------------|---------|
| GY | 1 |
| GY/VT | 2 |
| VT | 3 |

4.5.3 Version: Mirror adjusting motor with memory (8-pin plug socket) ⇒ Figure 14-1-.

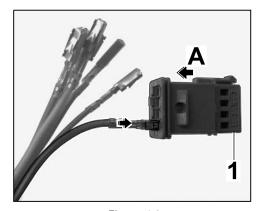


Figure 14

| Color of wire | Chamber |
|---------------|---------|
| RD/GY | 1 |
| GY | 2 |
| YE/WH | 3 |
| YE/VT | 5 |
| GY/VT | 6 |
| BN/GY | 7 |
| VT | 8 |

Lock locking mechanism \Rightarrow *Figure 14* -**arrow A**- on plug socket \Rightarrow *Figure 14* -**1**- at both sides.

- 4.6 Install housing frame.
 - 4.6.1 Position housing frame ⇒ Figure
 15-2- and upper part of housing ⇒
 Figure 15-1- with respect to each
 other and press them together ⇒
 Figure 15-arrow- until the retaining
 lugs engage.

Guide wire harness for mirror heating \Rightarrow *Figure 16*-**arrow**- out between the housing frame and amplifier plate.

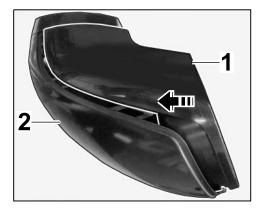


Figure 15

4.6.2 Secure housing frame with two fastening screws (3 x 14) \Rightarrow Figure 16-2- and one fastening screw (3 x 16) \Rightarrow Figure 16-1-.

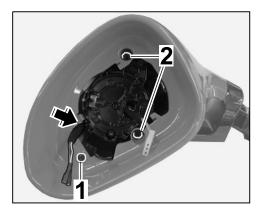


Figure 16

- 4.7 Install mirror adjusting motor.
 - 4.7.1 Connect plug connection ⇒ Figure 17-arrow-.
 - 4.7.2 Move mirror adjusting motor \Rightarrow Figure 17-2- into installation position and secure with a fastening screw (M3 x 38) \Rightarrow Figure 17-1-.
- 4.8 Install mirror glass.

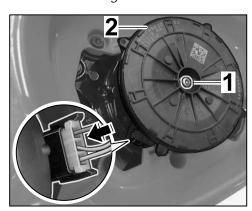


Figure 17

4.8.1 Slide vibration damper ⇒ Figure 18
-1- onto the mirror glass ⇒ Figure 18 - arrows-.

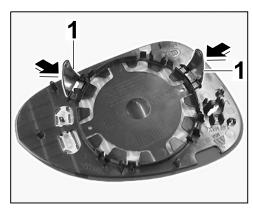


Figure 18

4.8.2 Connect plug connection for mirror heating \Rightarrow Figure 19-arrow-.

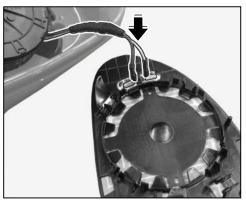


Figure 19

- 4.8.3 Only for vehicles with automatic dimming:
 Connect plug connection for automatic dimming ⇒ Figure 20-3- and clip it into its holder ⇒ Figure 20-2-.
- 4.8.4 Carefully fit mirror glass on the mirror adjusting motor. ⇒ Workshop Manual '667819 Removing and installing mirror glass'

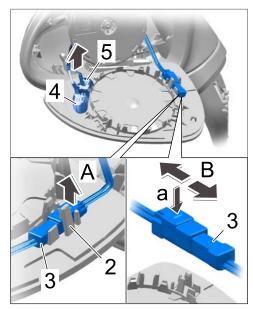


Figure 20

- 4.9 Fit seal \Rightarrow Figure 21 -1-.
- 5 Assemble second SportDesign exterior mirror as described in Step 3.
- 6 Install SportDesign exterior mirror on the left and right. ⇒ Workshop Manual '668919 Removing and installing rear-view mirror'



Figure 21

NOTICE

Voltage drop

- Risk of irreparable damage to control unit
- · Risk of damage to control unit
- · Fault entries in the control unit
- Coding in the control unit is aborted
- Malfunctions in control unit, even during programming
- ⇒ Prior to disconnecting the control unit, switch off the ignition and remove the ignition key.
- ⇒ Ensure that the power supply is not interrupted during programming.
- ⇒ Connect battery charger/power supply suitable for AGM Type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V.



Information

The **9818 - PIWIS Tester 2** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms; different text or additions may appear on the **9818 - PIWIS Tester 2**.

- 7 Code SportDesign exterior mirrors.
 - 7.1 **9818 PIWIS Tester II** must now be connected and ignition switched on.
 - 7.2 Select vehicle type. PIWIS Tester II Diagnostics starts.
 - 7.3 Update vehicle data.
 - 7.3.1 **Select Additional menu** by pressing •F7". Press •F11" to confirm the question "Create vehicle analysis log (VAL)?".

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7.3.2 Select the **Maintenance of vehicle data** function. Press • F12" until **M numbers** appears in the Value group column.



Information

The coding values to be changed depend on the vehicle equipment.

- 7.3.3 Select the relevant coding values (e.g. 261 EXTERIOR MIRROR......) one after the other in the Coding value column. When you touch the Installed cell, the tick disappears.
- 7.3.4 Select coding value **529 SportDesign exterior mirror** in the Coding value column. When you touch the Installed cell, a tick appears.
- 7.3.5 Press •F12" to continue. A table showing all selected coding values appears. Press •F8" to write values.

Wait until the following message appears: Creation of vehicle data is complete.

7.3.6 Press •F12" to switch to Report management. Open the log by pressing •F10" and check that vehicle equipment

529 – SportDesign exterior mirrors is entered.

Check that the vehicle equipment, e.g.

261 - EXTERIOR MIRROR...... is no longer entered.

- 7.4 Adapt coding.
 - 7.4.1 Press F11" to switch to the control unit overview.
 - 7.4.2 Select all control units. Press F12" to continue. Switch to the **Codings/adaptations** menu.
 - 7.4.3 **Select Automatic coding**. Press F12" to continue.
 - 7.4.4 Wait until the following message appears: **Coding was completed successfully.** Press F12" to continue.
- 7.5 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. ⇒ Workshop Manual '033500 Fault memory for on-board diagnosis'
- 7.6 Switch off ignition and disconnect **9818 PIWIS Tester II**.
- 8 Disconnect battery charger. ⇒ Workshop Manual '2XOOIN Battery trickle charging'

66892005: Retrofitting SportDesign exterior mirrors

Removing standard exterior mirrors, assembling and installing

SportDesign exterior mirrors

Sport Design exterior mirrors

Includes:

Labor time: 183 TU

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Installation and Conversion Instructions

Labor time: 130 TU

66796280: SportDesign exterior mirrors, right and left (complete), new parts painted Labor time: 110 TU

Includes: Materials: 4 MU

Without: Paint preparation (separate LO No.)!

51017105: Preparing body paintwork

Includes: Order-based

New part painting Step 1

Plastic part

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