Door-Sill Guards, Illuminated (7M8 / VT2 / VT9)

Model Year: **As of 2022**

Cause: **Retrofitting**

Notes:

Figure 1

The logo in the door sill area (front) can be replaced by an illuminated door-sills guard.

The guards with the model designation of the respective vehicle are available in carbon-fiber composite (⇒*Figure 1*) or aluminium. The “Carbon-fiber composite door-sills guard” set also includes a carbon-fiber composite loading sill guard for the rear lock carrier in carbon-fiber composite).

Parts Info: Door-sill guard illuminated in carbon-fiber composite including loading sill protection (carbon-fiber composite, 7M8):

95B.044.810.A	⇒ Carbon-fiber composite door-sill guard –Macan–, set
95B.044.811.A	⇒ Carbon-fiber composite door-sill guard –Macan S–, set
95B.044.813.A	⇒ Carbon-fiber composite door-sill guard –Macan GTS–, set
95B.044.814.A	⇒ Carbon-fiber composite door-sill guard –Macan T–, set

Illuminated door-sill guard, aluminium, dark silver, brushed (VT2):

95B.044.810	⇒ Aluminium door-sill guard –Macan–, set
95B.044.811	⇒ Aluminium door-sill guard –Macan S–, set

Door-sill guard illuminated in aluminium, anodized black (VT9):

95B.044.813	⇒ Aluminium door-sill guard –Macan GTS–, set
95B.044.814	⇒ Aluminium door-sill guard –Macan T–, set

ONLY for vehicles with I-no. 7M0 – Also order plastic sill guards:

95B.863.483.H.FFF[1]	A-pillar trim panel (lower), left (LHD vehicle – L0L)
95B.863.484.H.FFF[1]	A-pillar trim panel (lower), right (L0L)

[1] Select the color code according to standard equipment for the vehicle in the PET.

Parts list: Scope of illuminated door-sill guard (aluminium, black anodized – VT9) using the example Macan T: ⇒ *Figure 2* **-1-4-**

Figure 2

— — —[2]	1 x	Aluminium door-sill guard, illuminated –Macan T–, left ⇒*Figure 2* **-1-**
— — —[2]	1 x	Aluminium door-sill guard, illuminated –Macan T–, right ⇒*Figure 2* **-2-**
— — —[2]	1 x	Electric wire harness ⇒*Figure 2* **-3-**
— — —[2]	20 x	Tie-wrap ⇒*Figure 2* **-4-**

——— [2 3]	1 x	Carbon-fiber composite lock carrier trim (rear), left ⇒*Figure 2* **-5-**
——— [2 3]	1 x	Carbon-fiber composite lock carrier trim (rear), right ⇒*Figure 2* **-6-**

[2] **ONLY** contained in respective set.

[3] **ONLY** contained in the “carbon-fiber composite” sets!

Material: ——— —— Cleaning agent (commercially available)

Tool: **P90999 - P90999 - PIWIS Tester 4**

Polyoxymethylene wedge (POM wedge, commercially available)

Assembly:

1 Preparatory work

1.1 Remove A-pillar trim panel (lower) on the left / right. ⇒*Workshop Manual '680519 Removing and installing inner door sill trim'*

1.2 Removing B-pillar trim panel

1.2.1 Remove upper left / right B-pillar trim panel. ⇒*Workshop Manual '706719 Removing and installing B-pillar trim panel (upper part)'*

1.2.2 Remove the lower part of the B-pillar trim panel on the left / right. ⇒*Workshop Manual '706719 Removing and installing B-pillar trim panel (lower part)'*

1.3 Removing rear seat assembly

1.3.1 Remove the rear seat. ⇒*Workshop Manual '724819 Removing and installing rear seat'*

1.3.2 Remove the rear right backrest. ⇒*Workshop Manual '724719 Removing and installing rear backrest'*

1.4 Removing cover on lock carrier (rear). ⇒*Workshop Manual '703919 Removing and installing cover on rear lock carrier'*

1.5 Remove the rear luggage compartment side trim panel at the right. ⇒*Workshop Manual '700319 Removing and installing rear luggage compartment side trim panel'*

1.6 **ONLY** for vehicles with rear side airbag (4X4):

1.6.1 Disconnect the battery. ⇒*Workshop Manual '2X00IN Work instructions after disconnecting the battery'*

1.6.2 Remove rear side airbag at the right. ⇒*Workshop Manual '696419 Removing and installing rear side airbag'*

1.7 Remove / loosen rear (inner) door sill trim.

1.7.1 Remove right rear (inner) door sill trim. ⇒*Workshop Manual '680519 Removing and installing (rear) inner door sill trim'*

1 – Catch bar cover
2 – Screw

Figure 3

1.7.2 Loosen (unclip) (inner) door sill trim on the left in the front area. ⇒ *Figure 4* **-a-**

1 – (Inner) door sill trim, rear left
2 – Floor covering
3 – Cable duct

1.8 Lift carpet in front of the rear seat (⇒*Figure 4* **-b-**) and expose the cable duct. ⇒*Figure 4*

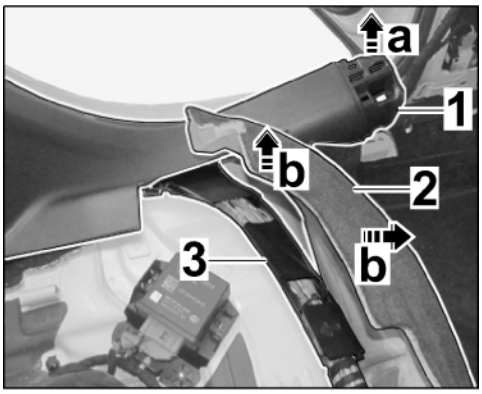

Figure 4

2 Route and connect electric wiring harness

2.1 Attach the end of the line WITHOUT the pin housing of the electric wiring harness to the auxiliary line (Tekalan pipe etc.).

Information

For easier routing, crimp out electric wire harness in the vehicle, pins with lines from the connector housing.

2.2 Press out the pin contact of the YE/GY line at the shorter end of the wire harness from the connector housing.

1 – Secondary lock
2 – YE/GY line

2.2.1 Open secondary lock using a screwdriver on the pin housing. ⇒*Figure 5* **-Top, arrow-** and ⇒*Figure 5* **-a-**

2.2.2 Release pin contact using the push-out tool. ⇒*Figure 5* **-b-**

2.2.3 Pull YE/GY line out of the housing. ⇒*Figure 5* **-c-**.

2.2.4 Wrap the pin contact (YE/GY line) around the wire harness with wrapping tape to protect it.

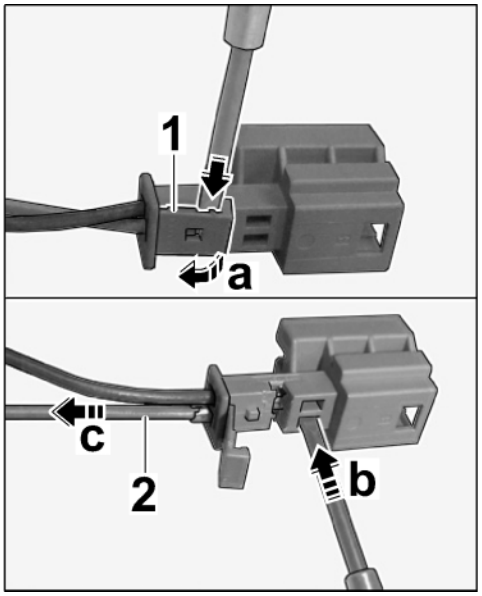

Figure 5

2.3 Route and connect electric wiring harness

Overview of line routing: ⇒*Figure 6*

Left A-pillar → main wiring harness in left passenger compartment → cable duct in front of rear seat → main wiring harness in right passenger compartment → right A-pillar → wiring harness in right boot → rear-end electronics control unit

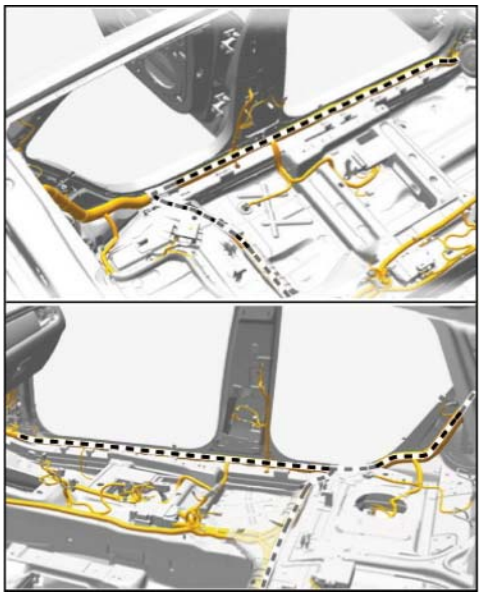

Figure 6

2.3.1 Push pin connector socket onto the top guide (⇒*Figure 7* **-Magnifier-**) at the connection point holder (left A-pillar area). ⇒*Figure 7* **-Arrow-**

1 – Pin connector socket
2 – Connection point holder
3 – Guide, top
4 – Ground pin 21

Screw cable ring eyelet to ground pin 21. ⇒*Figure 7* **-4-**⇒*Figure 7* **Tightening torque 9 Nm (6.6 ftlb.)**

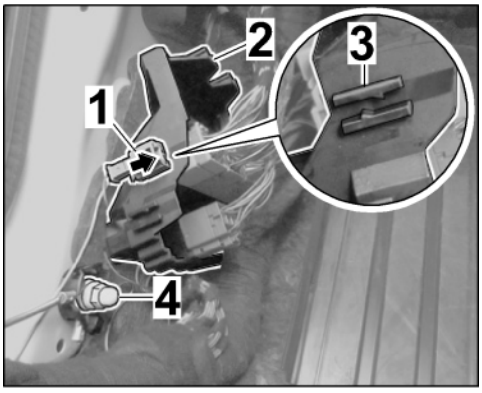

Figure 7

2.3.2 Open the rear left cable duct. ⇒*Figure 8* **-Arrow-**

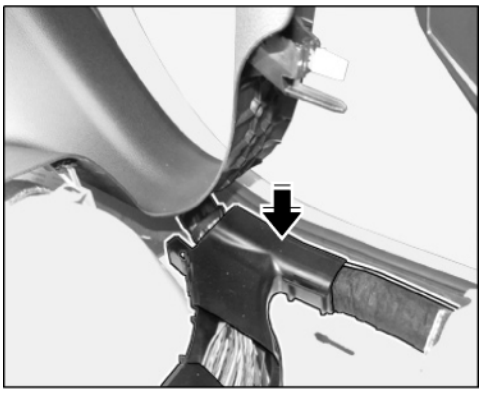

Figure 8

2.3.3 Route the electric wire harness along the main wire harness in the passenger compartment on the left through the cable duct in front of the rear seat to the right-hand side of the vehicle. ⇒*Figure 9*

1 – Wire harness
2 – Main wiring harness in passenger compartment
3 – Cable duct

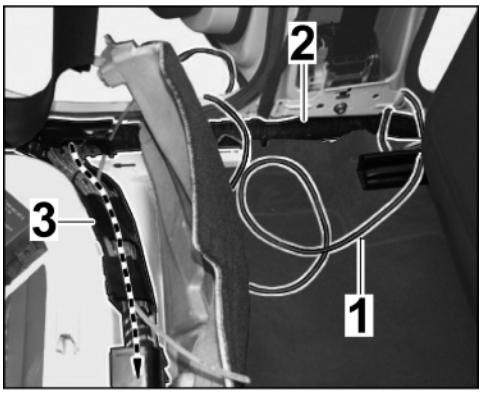

Figure 9

2.3.4 Close the rear left cable duct. ⇒ *Figure 10* **-Arrow-**

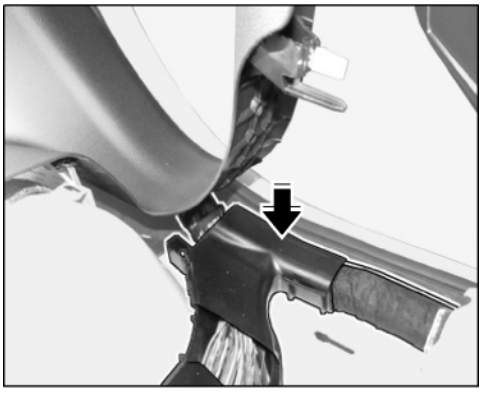

Figure 10

2.3.5 Route the electric wire harness (YE/GY line) along the main wire harness in the passenger compartment to the right A-pillar.

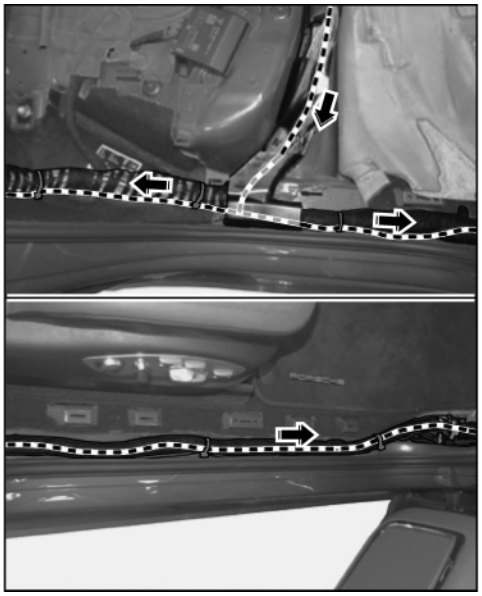

Figure 11

2.3.6 Insert the pin contact of the YE/GY line into pin connector socket. ⇒ *Figure 12* **-a-**

1 – Pin contact of YE/GY line
2 – Secondary lock

Close the secondary lock. ⇒*Figure 12* **-b-**

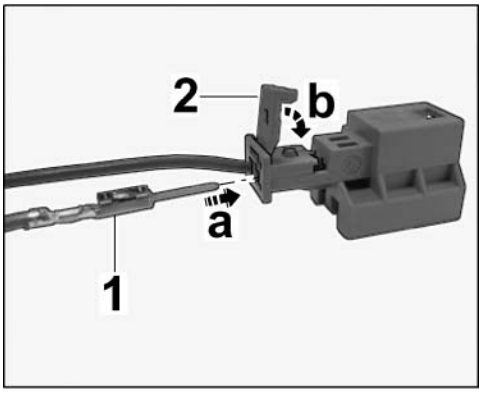

Figure 12

2.3.7 Push the pin connector socket onto the top guide at the connection point holder (right A-pillar area). ⇒*Figure 13*

1 – Pin connector socket
2 – Guide, top
3 – Ground pin 22

Screw cable ring eyelet to ground pin 22. ⇒*Figure 13* **-3- Tightening torque 9 Nm (6.6 ftlb.)**

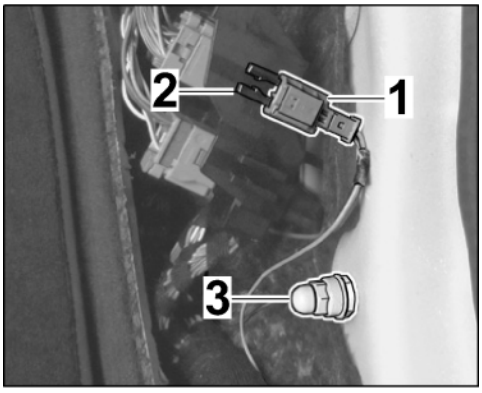

Figure 13

2.3.8 Route the YE/GY line along the wire harness in the luggage compartment on the right to the rear-end electronics control unit. ⇒*Figure 14*

1 – YE/GY line
2 – Control unit for rear-end electronics

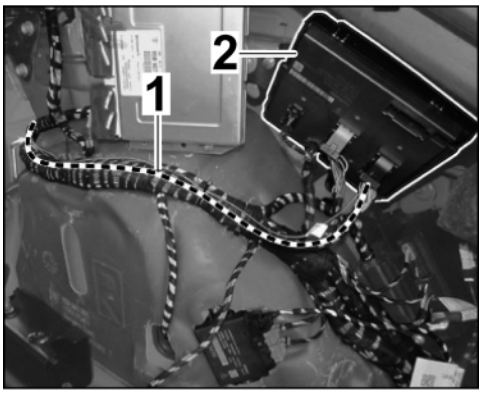

Figure 14

2.4 Connect the YE/GY line to the rear-end electronics control unit.

2.4.1 Disconnect the electric plug connection from the rear-end electronics control unit. ⇒*Figure 15*

1 – Plug connection

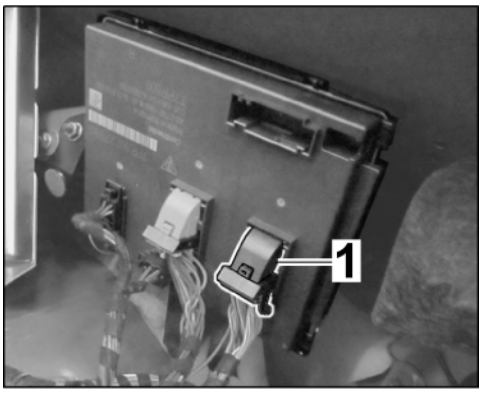

Figure 15

2.4.2 Open the locking mechanism (⇒ *Figure 16* **-Arrow-**) and push the grey plug socket out of the black plug carrier. ⇒*Figure 16*

1 – Plug socket (grey)
2 – Plug carrier (black)

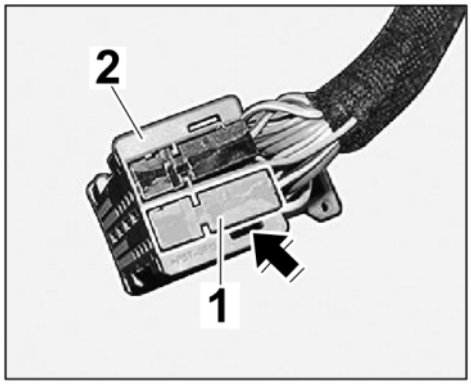

Figure 16

Information
Ensure socket contact is seated securely.

2.4.3 Insert the socket contact into chamber 8, plug socket (grey). ⇒ *Figure 17* **-Arrow-**

Push the plug socket into the plug carrier until the locking mechanism engages.

2.4.4 Plug the electric plug connection into the rear-end electronics control unit. ⇒*Figure 15*

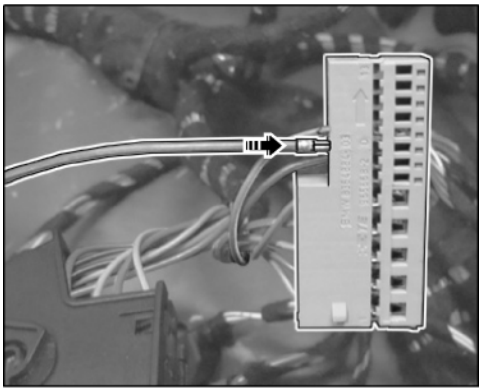

Figure 17

2.5 Secure routed wire harness to existing lines / components in the vehicle with tie-wraps without tensile stress and so that no chafing occurs.

Secure extra length of line if necessary.

Information
Some of the repair illustrations show only one side of the vehicle. Naturally, some steps also have to be performed on the opposite side of the vehicle as well. These must be carried out as a mirror image of the steps shown.

3 Installing illuminated door-sill guard in A-pillar trim panel (lower)

3.1 **ONLY** for vehicles with I-no. 7M9 – Door-sill guards in the door openings: Remove door-sill guard.

3.1.1 Bend up the tabs on the door-sill guard on the underside of the A-pillar trim panel (lower). ⇒*Figure 18* **-Arrow-**

1 – Tab on door-sill guard

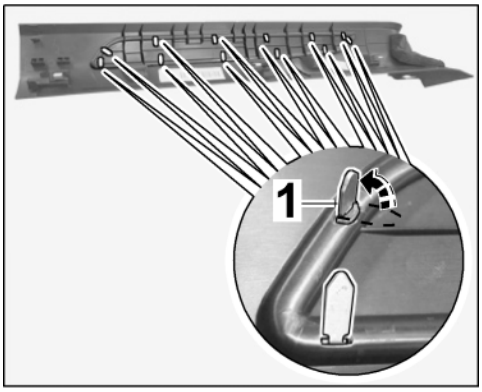

Figure 18

3.1.2 Carefully lever door-sill guard off the A-pillar trim panel (lower) using a POM wedge. ⇒*Figure 19*

1 – POM wedge
2 – Door-sill guard (standard)
3 – A-pillar trim panel (lower)

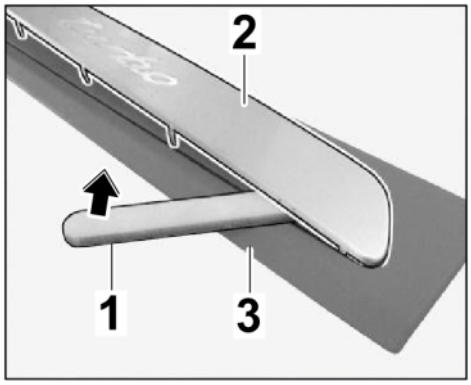

Figure 19

3.2 Make cable bushing (hole Ø 18 mm/ 0.71 in) in A-pillar trim panel (lower) on the left/right. ⇒*Figure 20*

x – 426 mm/ 16.77 in
y – 40 mm/ 1.57 in
d – Ø 18 mm/ 0.71 in
s – Point of intersection

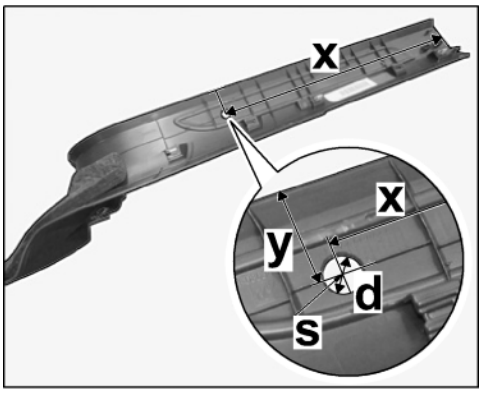

Figure 20

3.2.1 Mark the intersection point (⇒ *Figure 20* **-S-**) with dimensions x and y on the underside of the A-pillar trim panel (lower) on the left/right.

3.2.2 Drill a hole with ∅ = 18 mm/ 0.71 in at the marking.

3.3 Install illuminated door-sill guard in A-pillar trim panel (lower) on the left/right.

3.3.1 Pull the protective film off the door-sill guard. ⇒*Figure 21*

1 – Line (flat conductor path)
2 – Protective film
3 – Tab

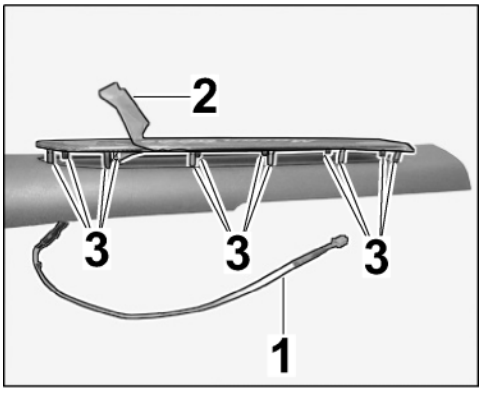

Figure 21

Guide the connector and line (flat conductor path) through the A-pillar trim panel bore hole.

Information
When installing the door entry guard, make sure that the sharp-edged tabs do not damaged the surface of the door sill trim.

Position illuminated door-sill guard over A-pillar trim panel (lower). Carefully guide tabs on the illuminated door-sill guard into the installation position on the A-pillar trim panel (lower) (⇒*Figure 21*).

3.3.2 Press back the illuminated door-sill guard and A-pillar trim panel (lower) together and turn the tabs. ⇒*Figure 22*

1 – Tab

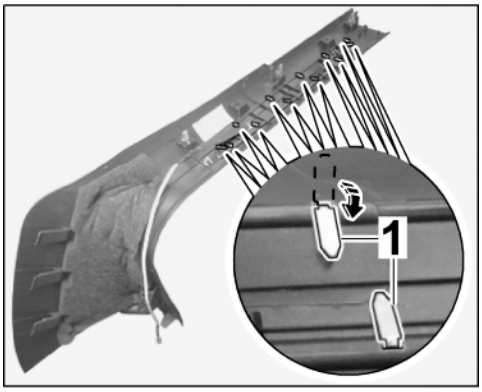

Figure 22

3.3.3 Clean underside of A-pillar trim panel (lower) in the bonding surface area of the flat conductor web (⇒*Figure 23* **-Hatching-**) with isopropanol so it is free from grease and dust.

1 – Protective film
2 – Flat conductor path

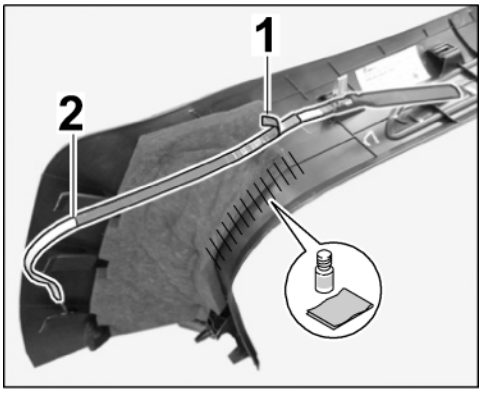

Figure 23

Pull the protective film off the flat conductor path (⇒*Figure 23*).

3.3.4 Lift up insulation material and affix flat-conductor web on underside of A-pillar trim panel (lower). ⇒*Figure 24*

1 – Flat conductor path
2 – Insulating material

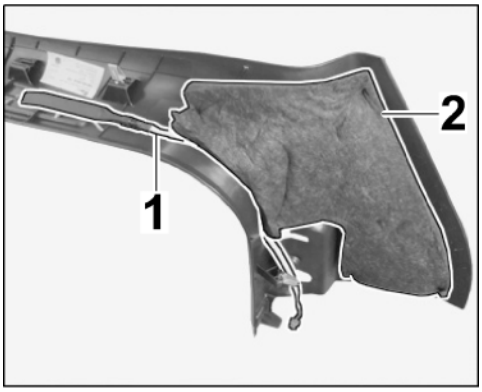

Figure 24

4 **ONLY** for “carbon fiber composite” door-sill guards: Installing carbon-fiber composite trim in cover on lock carrier (rear)

4.1 Disassembling cover on (rear) lock carrier

4.1.1 Remove insulating material from the lock carrier cover. ⇒*Figure 25*

1 – Insulating material
2 – Cover on lock carrier (rear)

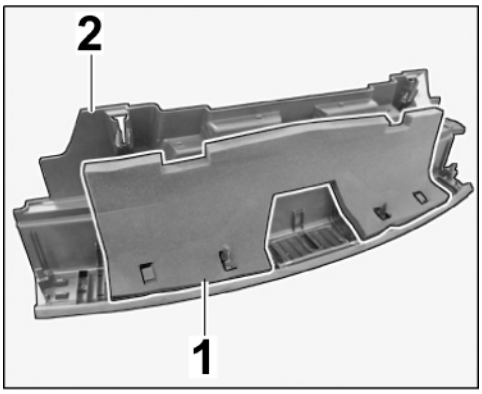

Figure 25

4.1.2 Carefully lever trim (left/right) off lock carrier cover (rear) using POM wedge. ⇒*Figure 26*

1 – Cover (left)
2 – Cover on lock carrier (rear)

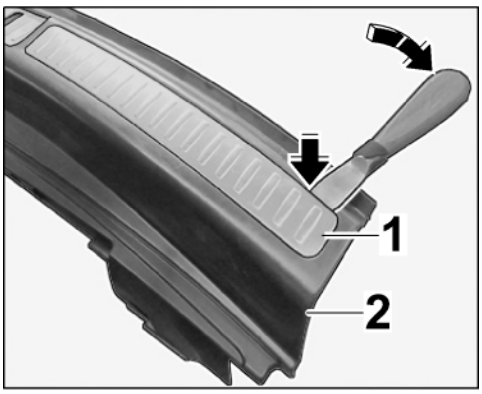

Figure 26

4.2 Install the new carbon-fiber composite trim in the lock carrier cover (rear). ⇒*Figure 27*

1 – Carbon-fiber composite trim
2 – Cover on lock carrier (rear)
3 – Guide pin

4.2.1 Remove the protective film on both sides.

4.2.2 First move the guide pin at the right into the bore hole (⇒*Figure 27* **-Arrow A-**) and then position the carbon-fiber composite trim in the slot.

4.2.3 Press the carbon-fiber composite trim and lock carrier (rear) cover together firmly.

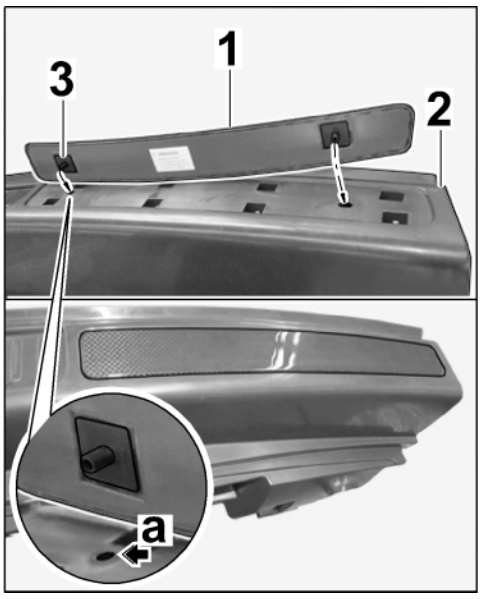

Figure 27

5 Completing the vehicle interior area

5.1 Align floor covering in the area of the rear seats and thread it in under (inner) door sill trim. ⇒*Figure 28*

1 – Rear (inner) door sill trim
2 – Floor covering

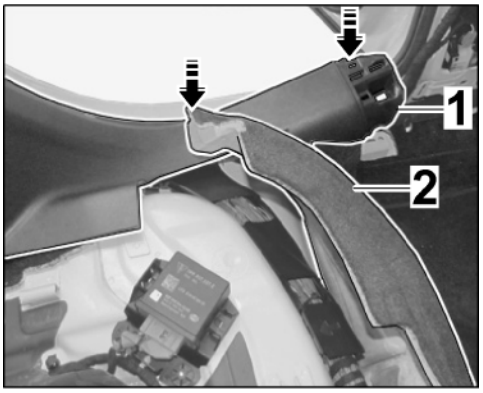

Figure 28

5.2 Install / fasten rear (inner) door sill trim.

5.2.1 Clip the rear (inner) door sill trim on the left in the front area into the body. ⇒*Figure 28* **-1-**

5.2.2 Install the right rear (inner) door sill trim. ⇒*Workshop Manual '680519 Removing and installing (rear) inner door sill trim'*

5.3 **ONLY** for vehicles with rear side airbag (4X4):

5.3.1 Install rear side airbag on the left. ⇒*Workshop Manual '696419 Removing and installing rear side airbag'*

5.3.2 Connect the battery. ⇒*Workshop Manual '2X00IN Work instructions after disconnecting the battery'*

5.4 Installing right rear luggage compartment side trim panel. ⇒*Workshop Manual '700319 Removing and installing rear luggage compartment side trim panel'*

5.5 Install cover on lock carrier (rear). ⇒*Workshop Manual '703919 Removing and installing cover on rear lock carrier'*

5.6 Installing rear seat assembly

5.6.1 Install the rear right backrest. ⇒*Workshop Manual '724719 Removing and installing rear backrest'*

5.6.2 Install rear seat. ⇒*Workshop Manual '724819 Removing and installing rear seat'*

5.7 Install B-pillar trim panel

5.7.1 Install the lower part of the B-pillar trim panel on the left / right. ⇒*Workshop Manual '706719 Removing and installing B-pillar trim panel (lower part)'*

5.7.2 Install upper left / right B-pillar trim panel. ⇒*Workshop Manual '706719 Removing and installing B-pillar trim panel (upper part)'*

5.8 Install A-pillar trim panel (lower) on the left / right.

Information
Lines can be interchanged during installation!

5.8.1 Check that the YE/GN line (wire harness) and RD line (door sill trim) are inserted in the same chamber (socket/connector).

1 – YE/GN line (wire harness)
2 – RD line (door sill trim)

- A: Replacing RD line with BN ground line
- B: Inserting lines in correct chambers

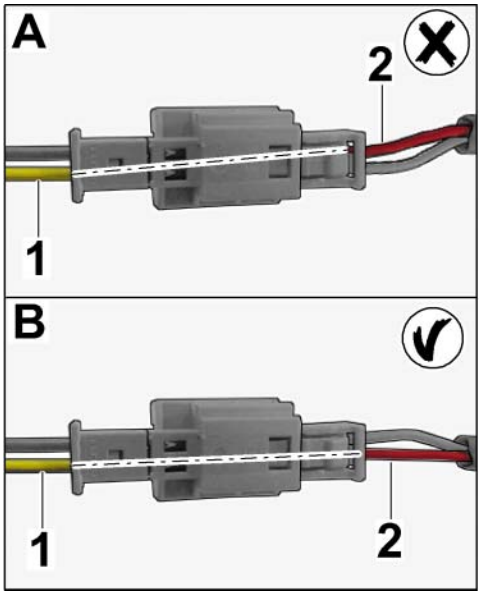

Figure 29

5.8.2 Connect plug connection ⇒*Figure 30* **-Arrow-**.

5.8.3 Carry out remaining work in accordance with “Installing inner (front) entry guards”. ⇒*Workshop Manual '680519 Removing and installing inner door sill trim'*

Coding: 6 Care of door-sill guard, illuminated (7M8 / VT2 / VT9) in vehicle data

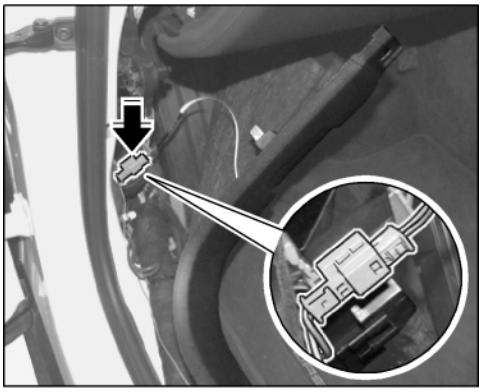

Figure 30

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**

⇒ **Switch off the ignition and remove the ignition key before disconnecting the control unit.**

⇒ **Ensure that the power supply is not interrupted during programming.**

⇒ **Connect a battery charger with a current rating of at least Nominal value 90 A to the vehicle battery.**

6.1 Preliminary work – Coding

6.1.1 Connect the battery charger.

NOTICE

Control unit programming will be aborted if the Internet connection is unstable.

- **An unstable Internet connection can interrupt communication between PIWIS Tester III / IV and the vehicle communication module (VCI). As a result, control unit programming may be aborted.**

⇒ **During control unit programming, always connect PIWIS Tester III / IV to the vehicle communication module (VCI) via the USB cable.**

6.1.2 Connect **P90999 - P90999 - PIWIS Tester 4** to the vehicle and switch it on.

6.1.3 Switch on ignition **AND** hazard warning lights on the vehicle.

Information

The **9900 - PIWIS Tester III / IV** 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 **9900 - PIWIS Tester III / IV**.

6.1.4 In the PIWIS Tester, select “Diagnostics” from menu.

6.1.5 If **P90999 - P90999 - PIWIS Tester 4** is connected correctly, a connection to the vehicle will be established: “Macan model line” is detected.

6.1.6 Create a vehicle analysis log (VAL) in the “Overview” menu item.

Information

The function is **ONLY** available when the Tester is online!

6.2 Enter the new vehicle equipment in the vehicle data using “PIWIS Online”

6.2.1 Select the function “Maintenance of vehicle data with PIWIS ONLINE” in the “Model line-specific tests and campaigns” menu item.

A message appears informing you that the “Actual” (vehicle) data and “Required” (PIWIS Online) data will be compared.

Press •F12 “ to continue.

6.2.2 Confirm the message “The vehicle data was compared with PIWIS Online. Significant differences were found” with •F12 “ .

6.2.3 Look for the option “door-sill guards” in the “Family” column.

Select the relevant option from the drop-down menu in the “Value” column.

- 7M8 – Door-sill guards in carbon-fiber composite, illuminated
- VT2 – Door-sill guards in aluminium, illuminated
- VT9 – Door-sill guards aluminium, SV (anodized), ill.

Press •F12 “ to continue.

6.2.4 A table containing the coding value and the columns “new value” and “old value” is displayed in the overview. Press •F8 “ to continue.

6.2.5 Data is then written / stored. The following messages appear one after the other:

- Transferring vehicle data to PIWIS Online.
- Writing and transferring vehicle data to the vehicle.
- Vehicle order was written successfully.
- A check was performed in order to check whether control units have to be coded or programmed as a result of the changes that were made.

6.2.6 Press •F10 “ to open the log. Check that the selected vehicle equipment has been entered and close the log.

7 Code / program the new vehicle equipment.

7.1 Code / program the new vehicle equipment.

7.1.1 Confirm the table containing a list of control units that must be coded/programmed, by pressing •F12 “ .

7.1.2 Individual data records will be loaded, depending on the number of control units to be coded/programmed.

Wait until messages “Creating backup documentation”. Please wait … and “Coding was completed successfully.” appear. Press •F12 “ to continue.

Repeat the process for other control units if necessary.

7.1.3 Wait for the “Adaptation of the control units is complete.” message and check the coding status of the control units in the table displayed.

Continue by pressing •F12 “ to return to the control unit overview.

7.2 Read out the fault memory of all systems, work through any existing faults and erase the fault memory. ⇒*Workshop Manual '0X03IN Diagnostics maintenance: Diagnostic system and maintenance inter...'*

Assembly: 8 Follow-up actions

8.1 Switch off ignition and disconnect **P90999 - P90999 - PIWIS Tester 4**.

8.2 Disconnect the battery charger. ⇒*Workshop Manual '2X00IN Battery trickle charge'*

8.3 Function test for door-sill guard lighting

68 07 23 40: –Illuminated “Aluminium” door-sill guard installed– Labor time: **290 TU**

Includes: Install the wiring harness and remove and install the cover strips at the door (front, 2 pc(s)).

68 07 23 45: – Illuminated “Carbon” door-sill guards installed– Labor time: **340 TU**

Includes: Install the wiring harness, remove and install the cover strips at the door (front, 2 pc(s)) and replace the lock carrier cover trim strips (rear, 2 pc(s)).