

Original BMW Accessories. Installation Instructions.



Illuminated/Non-Illuminated Stainless Steel Door Sill Strips Retrofit

BMW X5 (E70)

BMW X6 (E71)

Retrofit kit no.: 51 47 0 418 105 Illuminated door sill strip retrofit kit
51 47 0 426 783 Stainless steel door sill strip retrofit kit

Installation time

The installation time for the illuminated version is **approx. 2.0 hours**, for the non-illuminated version it is **approx. 0.5 hours**. This may vary depending on the condition of the car and the equipment in it.

Important information

These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

In any event, the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

All work must be completed using the latest BMW repair manuals, circuit diagrams, servicing manuals and work instructions, in a rational order, using the prescribed tools (special tools) and observing current health and safety regulations.

If you experience installation or function problems, limit troubleshooting to approx. 0.5 hours for mechanical or 1.0 hour for electrical work.

In order to reduce costs and avoid any additional expense, send a query immediately to the Technical Parts Support via the Aftersales Assistance Portal (ASAP).

Quote the following information:

- Chassis number
- Retrofit kit part number
- Detailed description of the problem
- Any work already carried out

Do not archive the hard copy of these installation instructions since daily updates are made by ASAP!

Pictograms



Denotes instructions that draw your attention to dangers.



Denotes instructions that draw your attention to special features.

◀ Denotes the end of the instruction or other text.



Warning – dangerous electrical voltage

Beware of high-voltage components!

Before commencing work, disconnect the negative terminal of the battery and secure against accidental contacting. ◀

Installation information

Ensure that the cables and/or lines are not kinked or damaged as you install them in the car. The costs thereby incurred will not be reimbursed by BMW AG.

Additional cables/lines that you install must be secured with cable ties.

All pictures show LHD cars; proceed analogously on RHD cars.

Deburr holes and treat them with anti-corrosive coatings as set out in BMW directives to protect them from corrosion.

Some of the installation is shown only on the right-hand side of the car, proceed in the same way on the left-hand side of the car.

Bonding instructions

Prior to installation, the car and the parts to be installed must be brought up to room temperature. The bonding surface on the car must be dry and free from grease or dust. Do not touch the adhesive tapes once the backing foil has been removed.

The areas of the component where the adhesive tape is applied on the reverse side are pressure areas. A force of about 40 N/cm² must be applied to these areas during bonding. This pressure must be applied for about 5 seconds for each adhesive strip.

To guarantee that the entire area is bonded, pressure must be applied several times.

After installation, the car must not be moved for at least two hours and not washed for at least 24 hours.

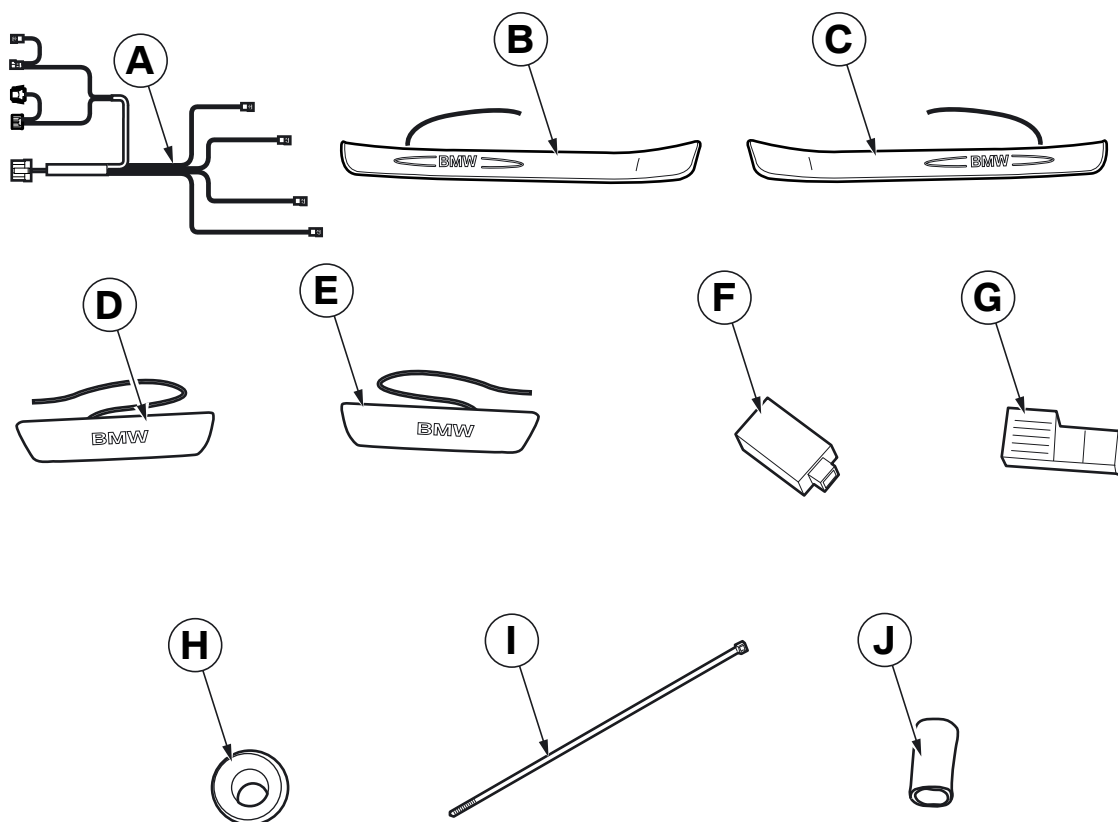
Special tools required

00 9 310, installation wedges

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1. Parts list




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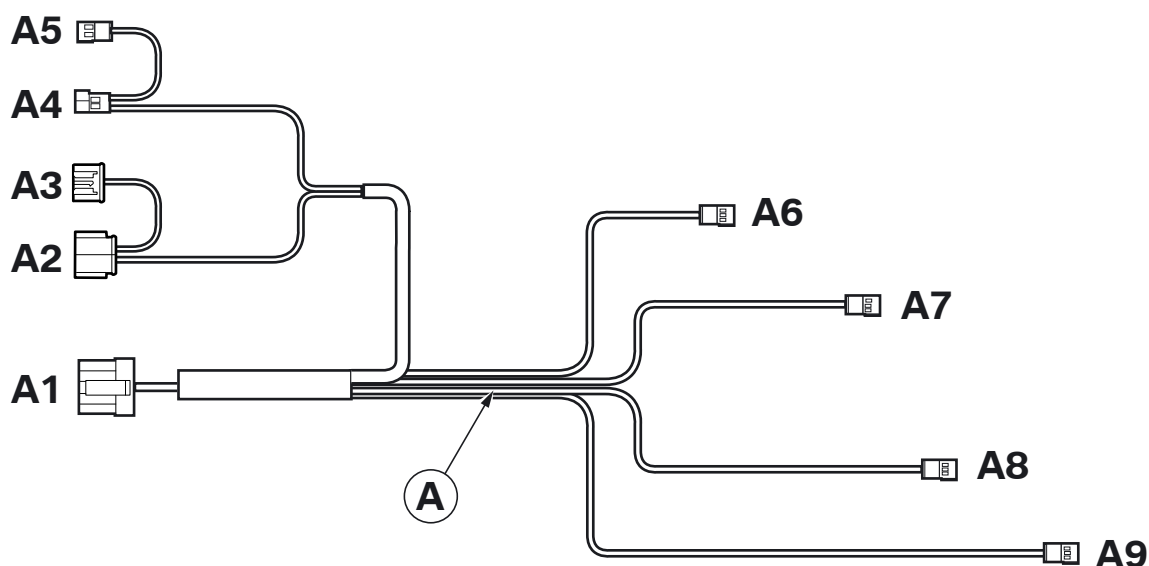
Legend

- A** Cable kit (illuminated version only)
- B** Front left door sill strip
- C** Front right door sill strip
- D** Rear left door sill strip
- E** Rear right door sill strip
- F** Inverter (illuminated version only)
- G** SW 3-pin plug casing (4x, illuminated version only)
- H** Cable grommet (8x, illuminated version only)
- I** Cable tie (15x, illuminated version only)
- J** Inverter protective cover (illuminated version only)

2. Preparatory work (illuminated version only)

	ISTA No.
Conduct a brief test	---
 Warning – dangerous electrical voltage Beware of high-voltage components! Before commencing work, disconnect the negative terminal of the battery and secure against accidental contacting. ◀	12 00 ...
First, the following components must be removed	
Front door sill protective strips, (interior), left and right	51 47 000
Rear door sill protective strips (interior), left and right	51 47 030
Side footwell trim on the A pillar, right and left	51 47 070
Pedal trim	51 45 185
Trim at the bottom right of the dashboard	51 45 181

3. Overview of connections (illuminated version only)



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Branch/ Item	Designation	Signal	Cable colour / cross-section	Connection location in the car	Abbreviation / slot
A	Cable kit	---	---	---	---
A1	SW 8-pin socket casing	---	---	On inverter F in passenger side footwell	---
A2	SW 4-pin plug casing	---	---	On glovebox connection	X13665
A3	SW 4-pin socket casing	---	---	On glovebox connection	X13665
A4	SW 2-pin plug casing	---	---	On plug of the footwell light, in footwell on passenger side	X745
A5	SW 2-pin socket casing	---	---	On footwell light, in footwell on passenger side	---
A6	SW 3-pin socket casing	---	---	On front right door sill strip C	---
A7	SW 3-pin socket casing	---	---	On rear right door sill strip E	---
A8	SW 3-pin socket casing	---	---	On front left door sill strip B	---
A9	SW 3-pin socket casing	---	---	On rear left door sill strip D	---

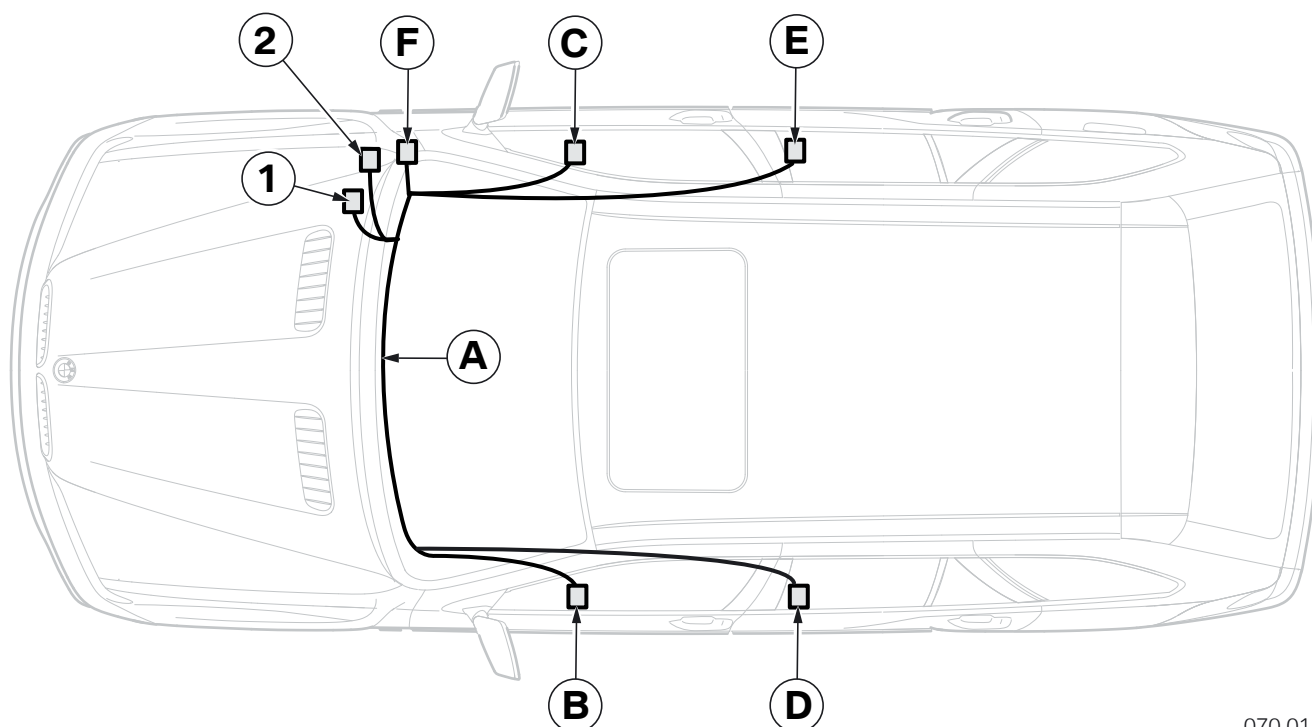


Warning – dangerous electrical voltage

Beware of high-voltage components!

Before commencing work, disconnect the negative terminal of the battery and secure against accidental contacting. ◀

4. Installation and cabling diagram

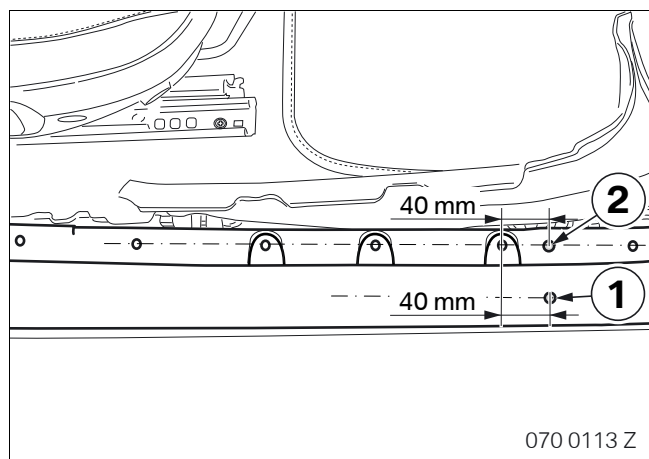


070 0111 Z

Legend

- A Cable kit
 - B Front left door sill strip
 - C Front right door sill strip
 - D Rear left door sill strip
 - E Rear right door sill strip
 - F Inverter
-
- 1 Footwell light, plug **X745**
 - 2 Glovebox connection, plug **X13665**

5. Installing the front door sill strips



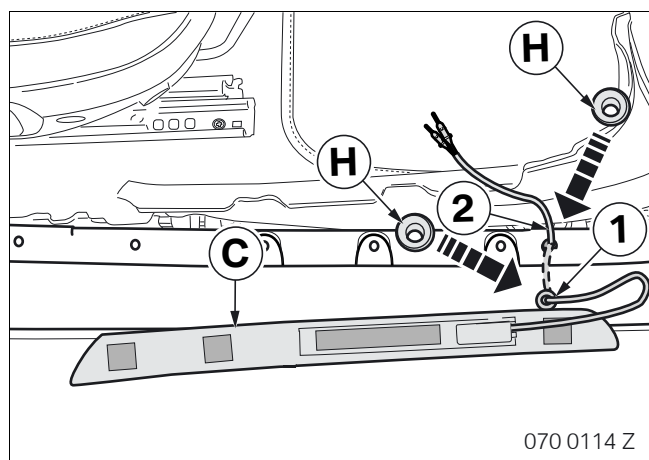
Illuminated version only

▶ The figure shows the front right-hand side. Proceed in the same way on the left-hand side. ◀

Drill a hole (1) in the front door sill strip at the measured point using an 8 mm twist drill bit.

Drill a hole (2) in the front door sill strip in the interior at the measured point using an 8 mm twist drill bit.

Deburr holes and treat them with anti-corrosive coatings as set out in BMW directives to protect them from corrosion.

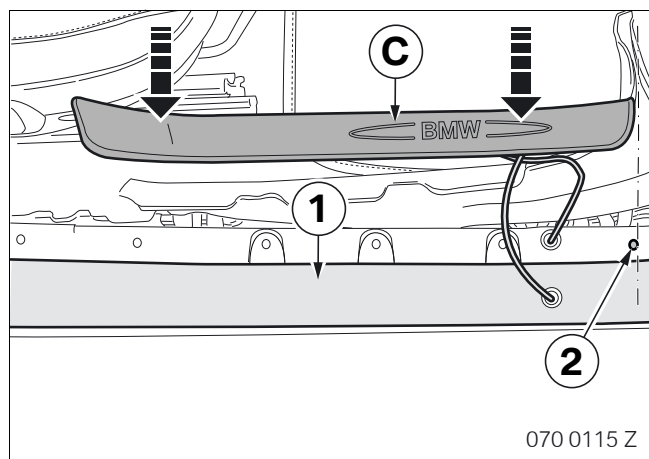


Fit a grommet **H** on the outside.

Route door sill strip connection cable **C** through holes (1) and (2) into the interior.

Fit a grommet **H** on the inside.

Remove the backing foil from the strips of adhesive tape on the back of door sill strip **C**.

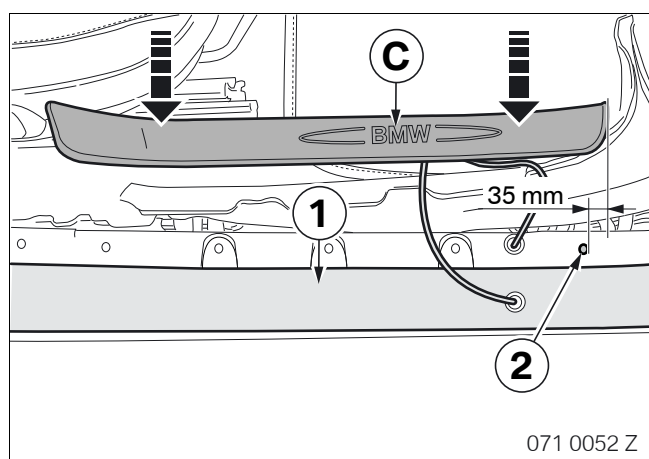


For E70 cars only (both versions)

⚠ Check the cable routing under door sill strip **C**. ◀

Observe bonding instructions when bonding door sill strip **C**.

Align the front edge of door sill strip **C** with the front edge of the drilled hole (2), place centrally on the attachment surface (1) and press door sill strip **C** onto the attachment surface (1), starting from the front. As it is glued in place, door sill strip **C** must follow the contour of the attachment surface (1).



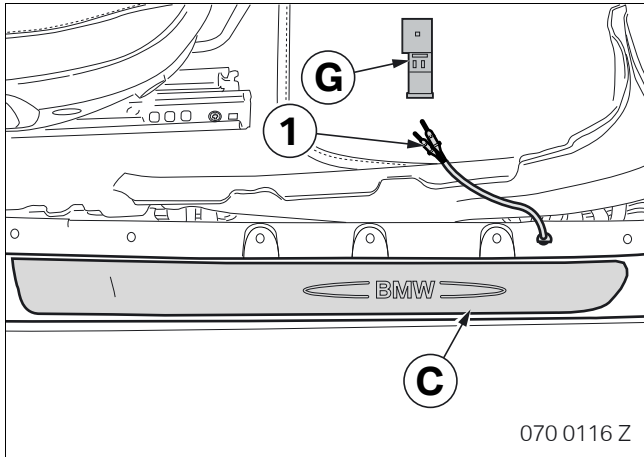
For E71 cars only (both versions)

⚠ Check the cable routing under door sill strip **C**. ◀

Observe bonding instructions when bonding door sill strip **C**.

Align the front edge of door sill strip **C** 35 mm ahead of the front edge of the drilled hole (2), place centrally on the attachment surface (1) and press door sill strip **C** onto the attachment surface (1), starting from the front. As it is glued in place, door sill strip **C** must follow the contour of the attachment surface (1).

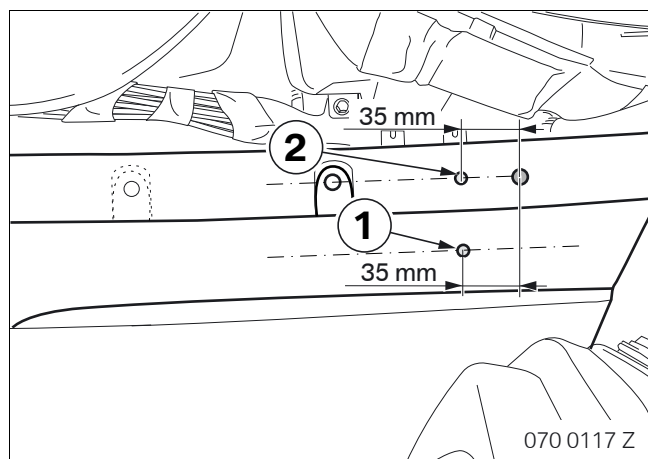
5. Installing the front door sill strips



All cars (illuminated version only)

Connect plug contacts (1) of door sill strip **C** into plug casing **G**, pin 1 and pin 3 (cables for pin 1 and pin 3 can be selected as required).

6. Installing the rear door sill strips



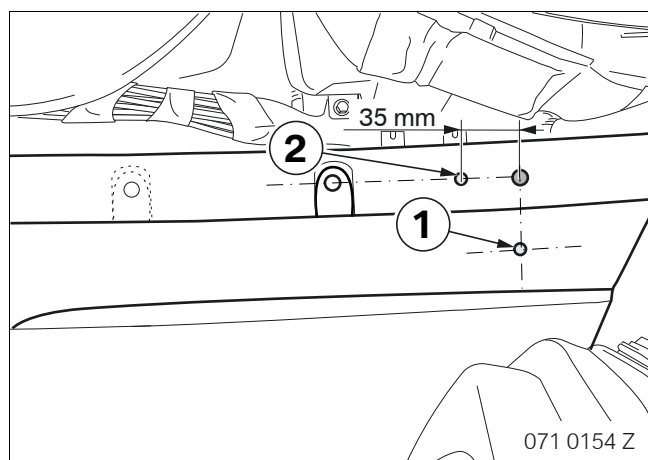
For E70 cars only (illuminated version)

▶ The figure shows the rear right-hand side. Proceed in the same way on the left-hand side. ◀

Drill a hole (1) in the rear door sill strip at the measured point using an 8 mm twist drill bit.

Drill a hole (2) in the rear door sill strip in the interior at the measured point using an 8 mm twist drill bit.

Deburr holes and treat them with anti-corrosive coatings as set out in BMW directives to protect them from corrosion.



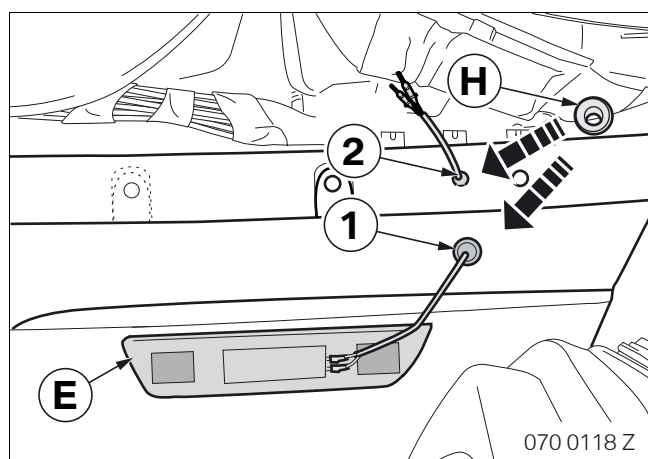
For E71 cars only (illuminated version)

▶ The figure shows the rear right-hand side. Proceed in the same way on the left-hand side. ◀

Drill a hole (1) in the rear door sill strip at the measured point using an 8 mm twist drill bit.

Drill a hole (2) in the rear door sill strip in the interior at the measured point using an 8 mm twist drill bit.

Deburr holes and treat them with anti-corrosive coatings as set out in BMW directives to protect them from corrosion.



All cars (illuminated version)

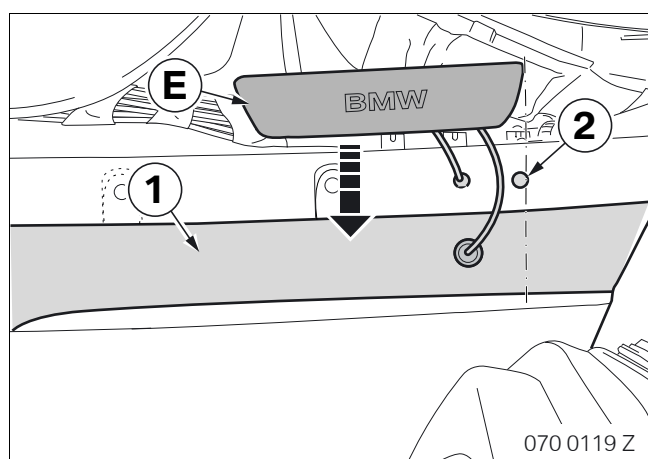
Fit a grommet **H** on the outside.

Route door sill strip connection cable **E** through holes (1) and (2) into the interior.

Fit a grommet **H** on the inside.

All cars (both versions)

Remove the backing foil from the strips of adhesive tape on the back of door sill strip **E**.



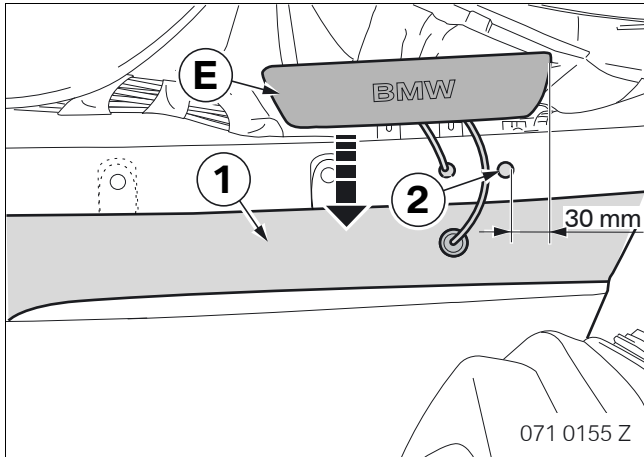
For E70 cars only (both versions)

⚠ Check the cable routing under door sill strip **E**. ◀


Observe bonding instructions when bonding door sill strip **E**.

Align the front edge of door sill strip **E** with the front edge of the drilled hole (2), place centrally on the attachment surface (1) and press down.

6. Installing the rear door sill strips

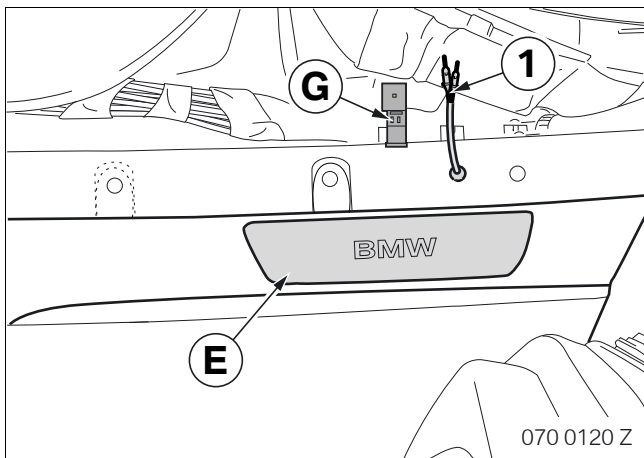


For E71 cars only (both versions)

 Check the cable routing under door sill strip **E**. ◀

Observe bonding instructions when bonding door sill strip **E**.

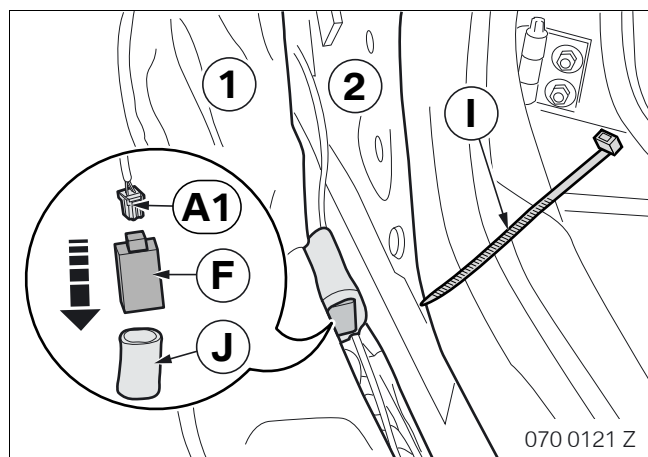
Align the front edge of door sill strip **E** 30 mm ahead of the front edge of the drilled hole (2), place centrally on the attachment surface (1) and press down.



All cars (illuminated version)

Connect plug contacts (1) of door sill strip **E** into plug casing **G**, pin 1 and pin 3 (cables for pin 1 and pin 3 can be selected as required).

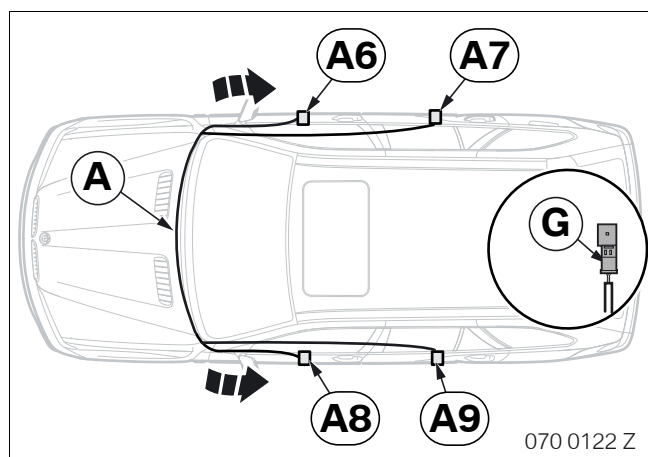
7. To install and connect the cable kit (illuminated version only)



Connect branch **A1** (SW 8-pin plug) to inverter **F**.

Push protective cover **J** onto inverter **F**.

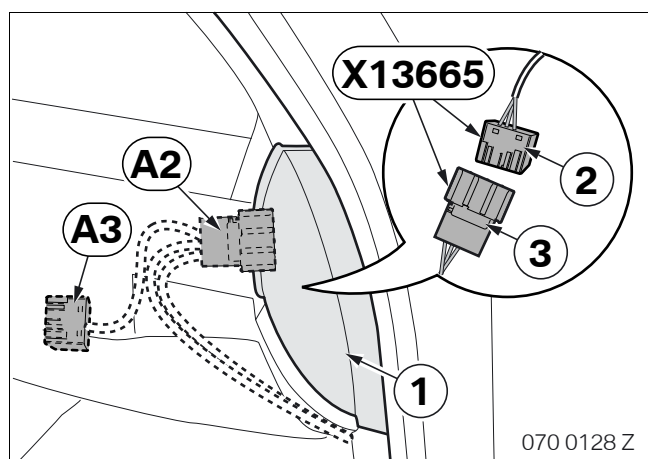
Insert inverter **F** between the carpet (1) and A pillar (2) and secure it to the standard wiring harness using cable tie **I**.



Route wiring harness **A** along the standard wiring harness as follows:

- Branch **A6** to the front right door sill strip
- Branch **A7** to the rear right door sill strip
- Branch **A8** to the front left door sill strip
- Branch **A9** to the rear left door sill strip

Connect branches **A6–A9** to the plug casings **G**.



Remove right-hand dashboard trim (1).

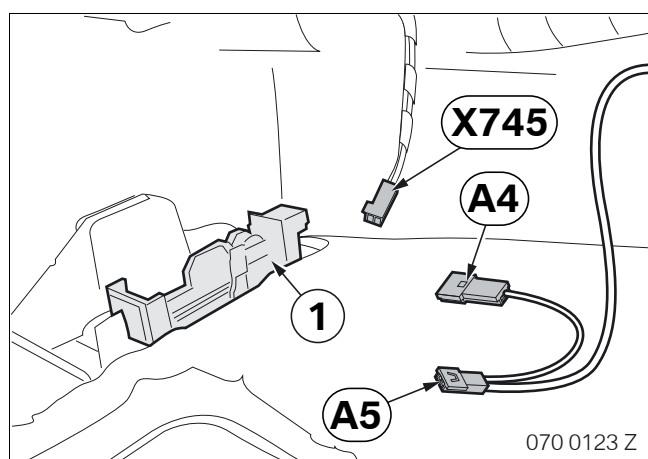
Route branches **A2** and **A3** (SW 4-pin plug) to plug **X13665** (SW 4-pin) of the glovebox plug connector.

Disconnect plug connector **X13665**.

Connect branch **A2** (SW 4-pin plug casing) to plug (2), SW 4-pin socket casing.

Connect branch **A3**, SW 4-pin plug casing, to plug (3), SW 4-pin socket casing.

Fit right-hand dashboard trim (1).



Route branches **A4** and **A5** (SW 2-pin plugs) to the footwell light (1).


Connect branch **A4** to plug **X745**.

Connect branch **A5** to the footwell light (1).

8. Concluding work and coding (illuminated version only)

This retrofit system does not require coding.

- Connect the battery

 Switch interior lighting on and off, wait about 10 seconds and then switch on again. ◀

- Conduct a function test
- Conduct a brief test
- Re-assemble the car

9. Circuit diagram (illuminated version only)



Legend

- | | |
|------------|--|
| A1* | SW 8-pin socket casing |
| A2* | SW 4-pin plug casing, on the glovebox connector |
| A3* | SW 4-pin socket casing, on the glovebox connector |
| A4* | SW 2-pin plug casing on the plug of the footwell light |
| A5* | SW 2-pin socket casing on the footwell light |
| A6* | SW 3-pin socket casing |
| A7* | SW 3-pin socket casing |
| A8* | SW 3-pin socket casing |
| A9* | SW 3-pin socket casing |

F* Inverter

X13665 SW 4-pin plug

X745 SW 2-pin plug

All the designations marked with an asterisk (*) apply only to these installation instructions or this circuit diagram.

Cable colours

BL	Blue
BR	Brown
GE	Yellow
GR	Grey
RT	Red
SW	Black
VI	Violet