



# Parts and Accessories

## Installation instructions

### Retrofit of illuminated front and rear sill panel strips BMW 5 Series (E60/E61)

**Retrofit kit No.:** 51 47 0 302 648

#### Installation time

The installation time of approx. 2.5 hours can vary depending on the condition and equipment of the vehicle.

#### Important information

These installation instructions are mainly intended for use in the BMW dealership network as well as by authorised BMW Service Centres.

The target group of these installation instructions are technical personnel trained on BMW vehicles with corresponding technical know-how.

All work is to be carried out with the aid of currently valid BMW repair instructions, schematic diagrams, maintenance manuals and working instructions in rational order with the specified tools (special tools) while paying particular attention to valid safety regulations.

When installing cables/lines, particular attention must be paid to ensure that they are not bent, kinked or damaged. The costs incurred will not be reimbursed by BMW AG. Additionally installed cables/lines must be secured with cable ties. Bridges, double crimp or parallel connections must be made if the specified PIN chambers are already occupied.

The control unit status (condition) must be checked with the test program CIP (coding, individualising, programming) before installing the retrofit. If the check finds incorrect or faulty statuses in one or several control units, they must be first corrected/updated with the "Load software" function.

All illustrations show LHD vehicles. Carry out the same procedure analogously on RHD vehicles.

Pictographs:



identifies information that draws attention to danger/hazards.



identifies information that draws attention to specific requirements.

◀ identifies the end of an information or warning text.

For key to pictographs, see EBA-CD or Aftersales Portal.

Do not archive the printout of these installation instructions as they are updated daily via the Aftersales Portal!

Subject to technical modifications.

#### Required special tools

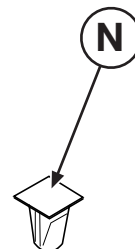
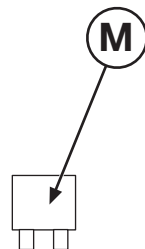
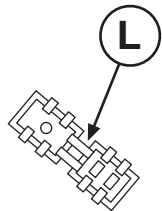
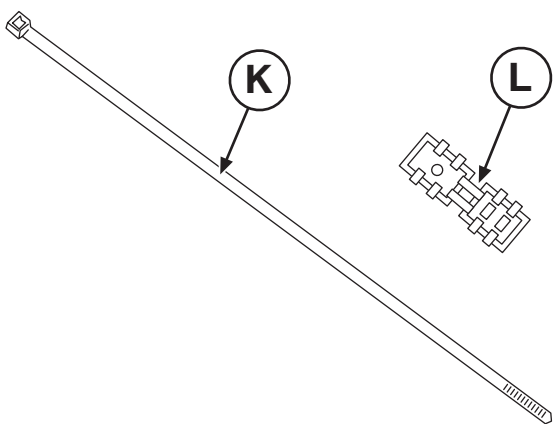
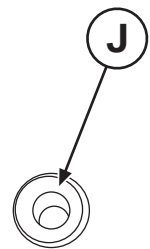
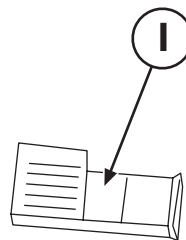
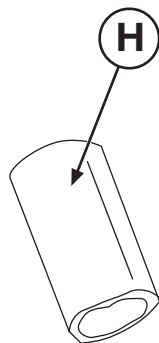
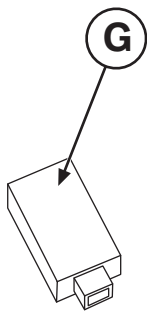
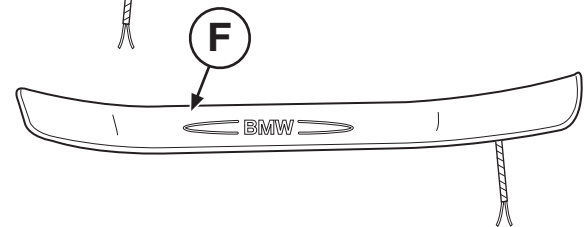
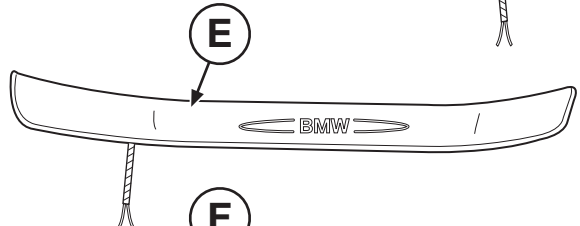
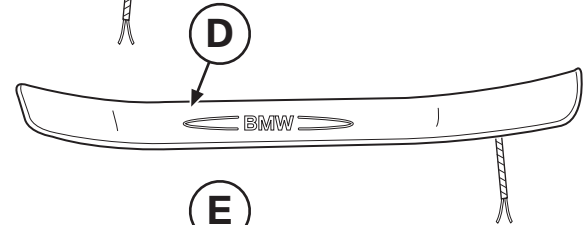
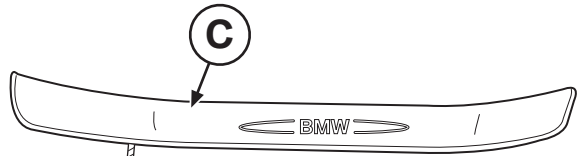
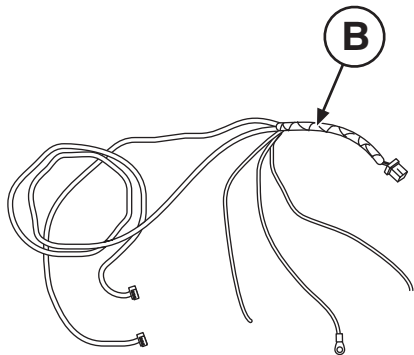
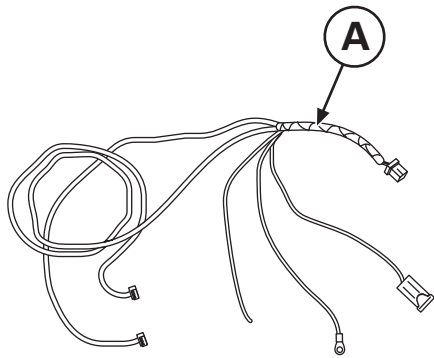
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## Contents

### Section Page

1. Parts overview .....	3
2. Preparatory work .....	5
3. Overview of connections .....	6
4. Installation and layout diagram .....	8
5. Installing adapter cable and sill panel strips .....	9
6. Concluding operations and encoding .....	13
7. Schematic circuit diagram .....	14

# 1. Parts overview



060 0063 B

## 1. Parts overview

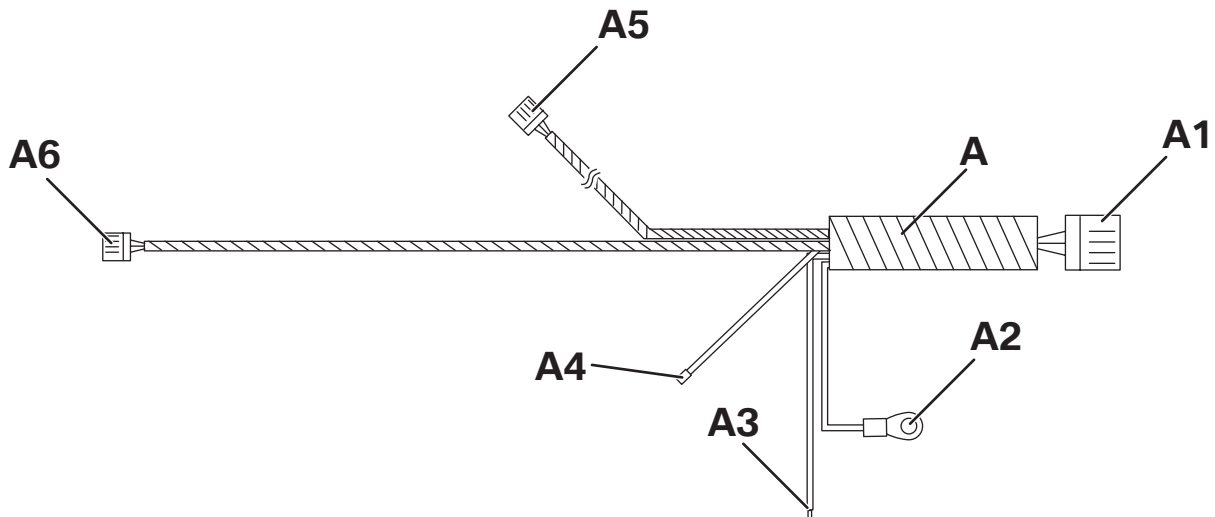
### Key

- A Wiring harness
- B Wiring harness
- C Sill panel strip (front left)
- D Sill panel strip (front right)
- E Sill panel strip (rear left)
- F Sill panel strip (rear right)
- G Inverter (2x)
- H Protective sleeve for inverter (2x)
- I 3-pin pin housing (4x)
- J Cable grommet (6x)
- K Cable tie (20x)
- L Insulation displacement connector (double) (4x)
- M Fuse 5A
- N Clip (18x)

## 2. Preparatory work

	TIS No.
Read out fault code memory	---
Electric seats: move both front seats completely back	---
Disconnect battery	12 00 ...
Remove left and right sill panel strips at front and rear	---
Remove bottom A-pillar trim panel, right and left	---
Remove glove compartment	---
Remove trim panel in driver's footwell	---
Remove B-pillar trim panel, bottom	---
Release front fuse block	---

### 3. Overview of connections

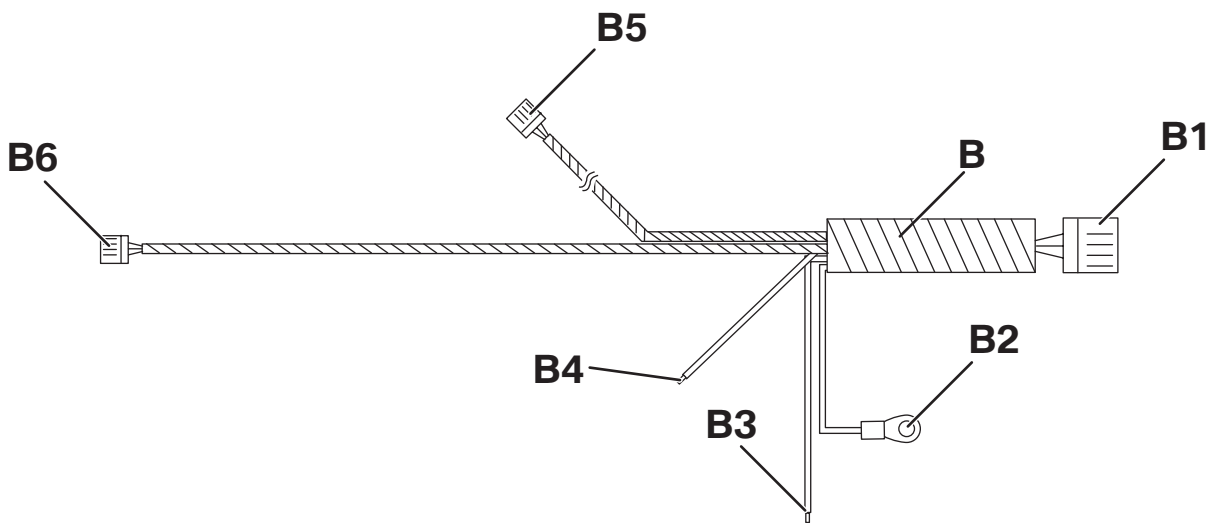


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Item	Description	Signal	Wire colour/ cross section	Connection location in vehicle	Designation/ plug-in location
A	Wiring harness	---	---	---	---
A1	8-pin black socket housing	---	---	Inverter <b>F</b> behind glove compartment	X1*
A2	Cable shoe Ø 6 mm	Terminal 31	Brown	To ground terminal point, A-pillar right	X13782
A3	Open cable end	VA	Red/black	At 54-pin KBM connector	X13252, PIN 52
A4	1-pin pin contact	Terminal 30	Red	At front fuse block	X11004, PIN 2
A5	3-pin socket housing	---	---	At front right sill panel	X3*
A6	3-pin socket housing	---	---	At front left sill panel	X4*

The X designations marked with \* apply to this overview only and do not refer to the general BMW service documentation. Connection overview

### 3. Overview of Connections

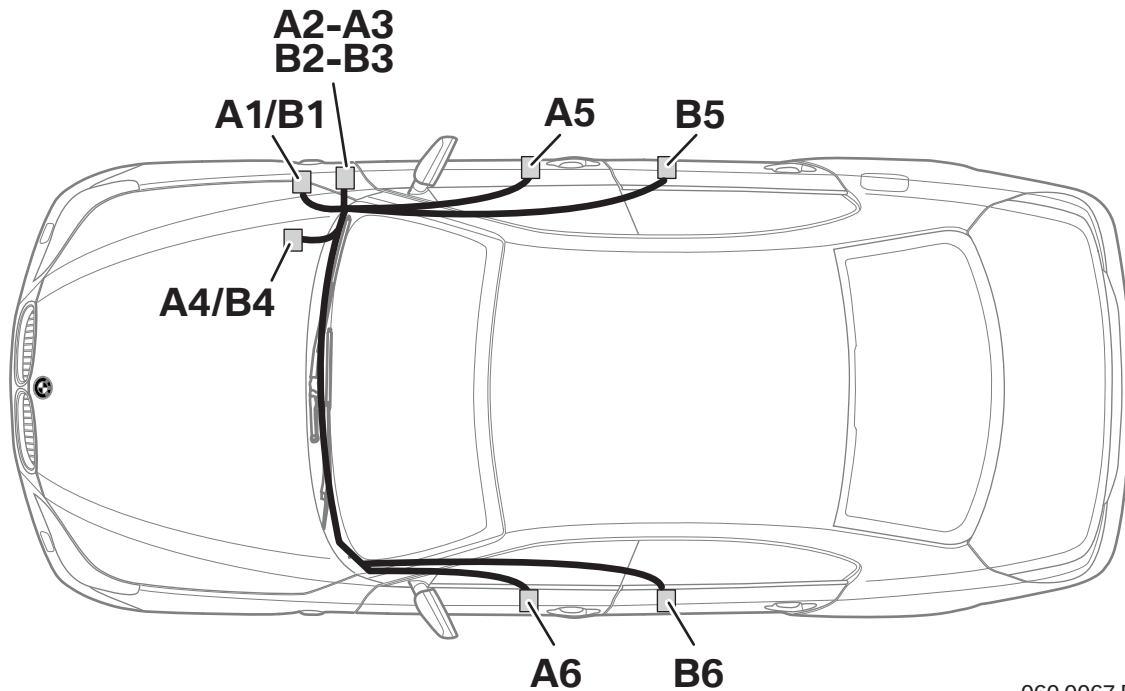


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Item	Description	Signal	Wire colour/ cross section	Connection location in vehicle	Designation/ plug-in location
B	Wiring harness	---	---	---	---
B1	8 pin black socket housing	---	---	Inverter <b>F</b> behind glove compartment	X1*
B2	Cable shoe Ø 6 mm	Terminal 31	Brown	To ground terminal point, A-pillar right	X13782
B3	Open cable end	VA	Red/black	At 54-pin KBM connector	X13252, PIN 52
B4	Open cable end	Terminal 30	Red	At front fuse block	A4
B5	3-pin socket housing	---	---	At sill panel strip, rear right	X3*
B6	3-pin socket housing	---	---	At sill panel strip, rear left	X4*

The X designations marked with \* apply to this overview only and do not refer to the general BMW service documentation. Connection overview

#### 4. Installation and layout diagram



060 0067 B

#### Key

##### Wiring harness A (right sill)

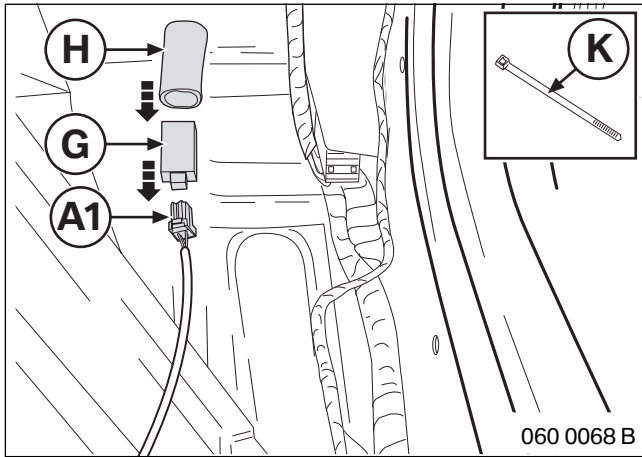
- A1** At inverter **G**
- A2** At **X13782**
- A3** At **X13252, PIN 52**
- A4** At **X11004, PIN 2**
- A5** At sill panel strip
- A6** At sill panel strip

##### Wiring harness B (left sill)

- B1** At inverter **G**
- B2** At **X13782**
- B3** At **X13252, PIN 52**
- B4** At **A4**
- B5** At sill panel strip
- B6** At sill panel strip

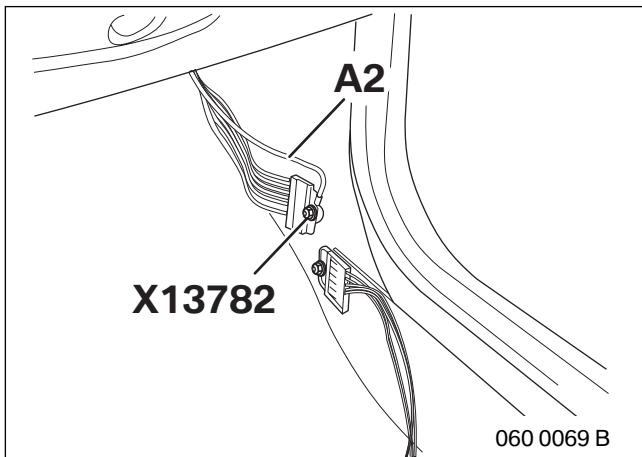


## 5. Installing adapter cable and sill panel strips



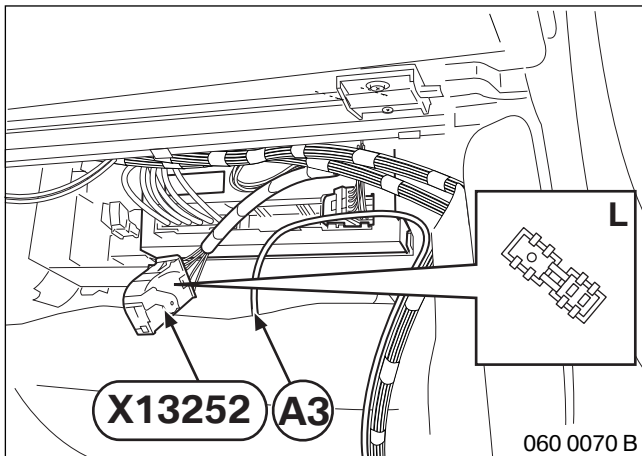
▶ Front right sill. ◀

Connect branch **A1** to inverter **G**. Slide protective sleeve **H** over inverter **G** and use cable tie **K** to tie back in an appropriate position.



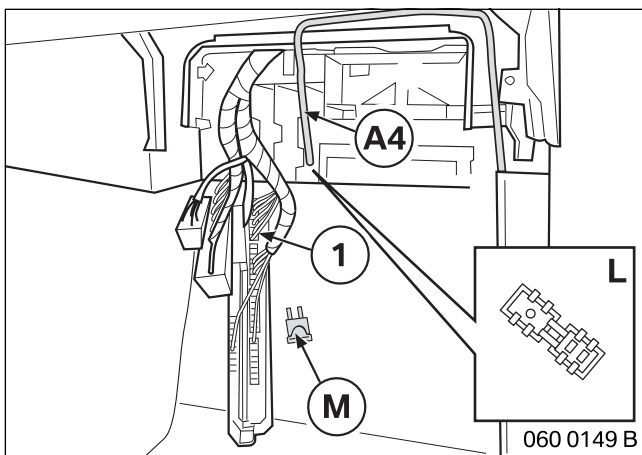
▶ Front right sill. ◀

Connect branch **A2** to ground terminal point **X13782**.



▶ Front right sill. ◀

Connect branch **A3** at 54-pin connector **X13252, PIN 52** of KBM module behind glove compartment with insulating displacement connector **L**.

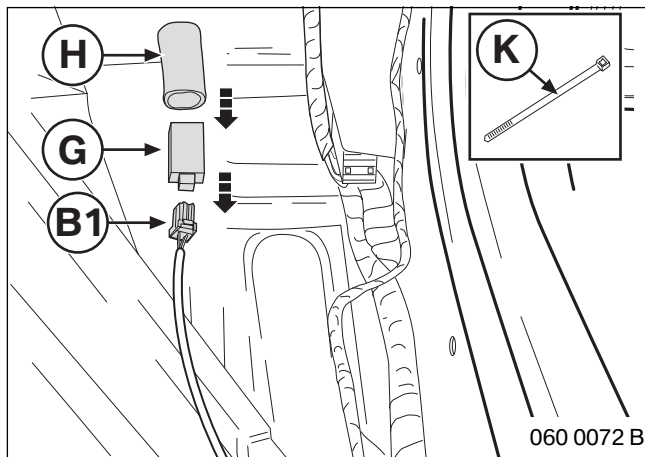


▶ Front right sill. ◀

Connect branch **A4** at **X11004, PIN 2 (1)**. If **PIN 2** is already used, cut off connector from branch **A4** and connect with insulation displacement connector **L** to **X11004, PIN 2**.

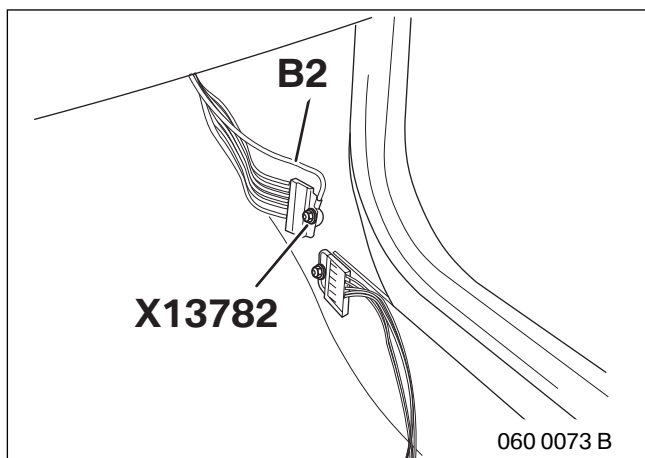
▶ If there is no fuse in plug-in slot 19, plug in fuse **M**. ◀

## 5. Installing adapter cable and sill panel strips



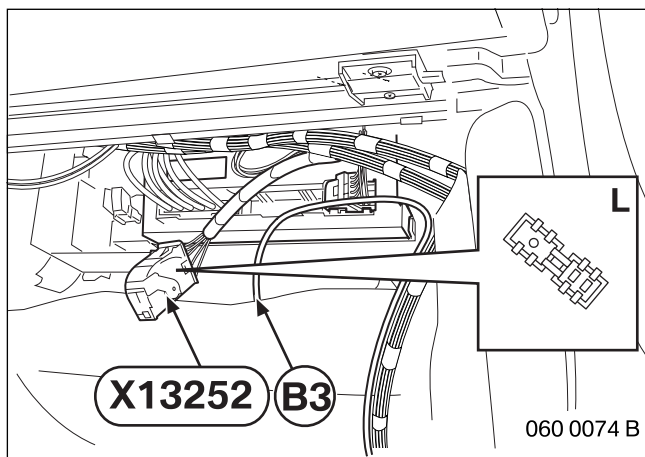
▶ Front right sill. ◀

Connect branch **B1** to inverter **G**.  
Slide protective sleeve **H** over inverter **G** and use cable tie **K** to tie back in an appropriate position.



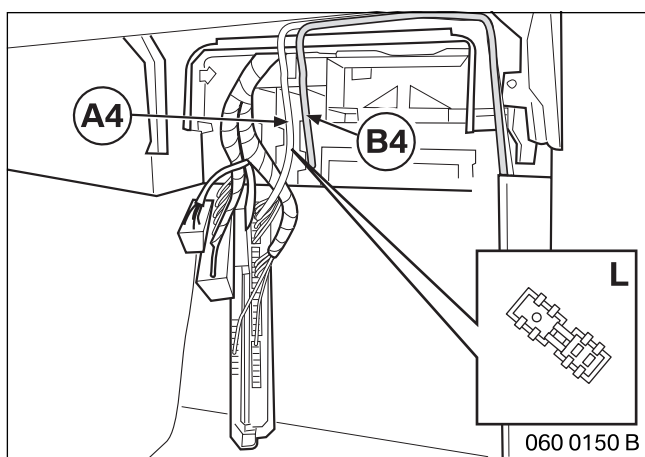
▶ Front right sill. ◀

Connect branch **B2** to ground terminal point **X13782**.



▶ Front right sill. ◀

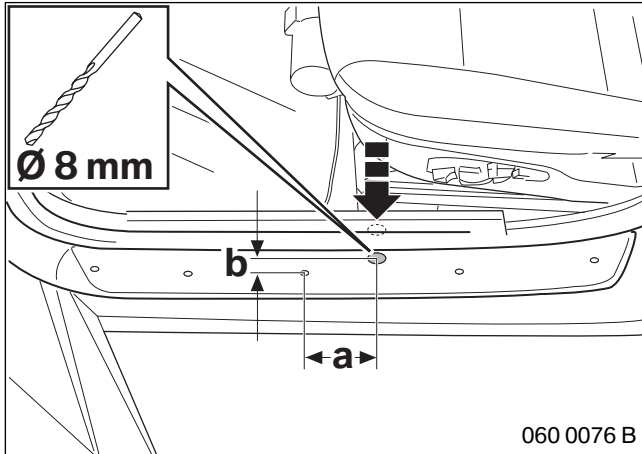
Connect **branch B3** at 54-pin connector **X13252, PIN 52** of KBM module behind glove compartment with insulating displacement connector **L**.



▶ Front right sill. ◀

Connect branch **B4** with insulating displacement connector **L** to branch **A4**.

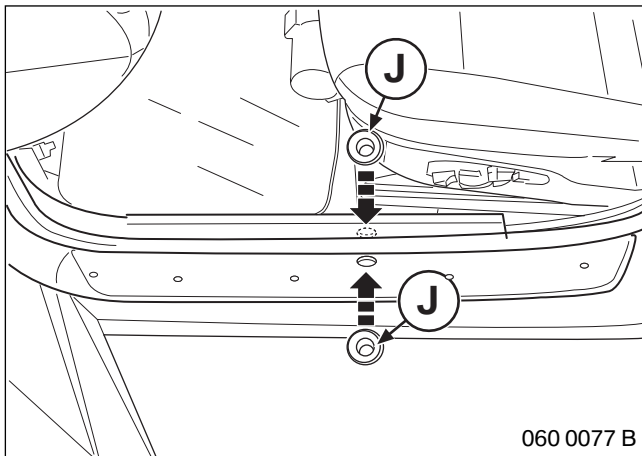
## 5. Installing adapter cable and sill panel strips



- ▶ The illustration shows the front left sill panel. Follow the same procedure on the front right sill panel. ◀

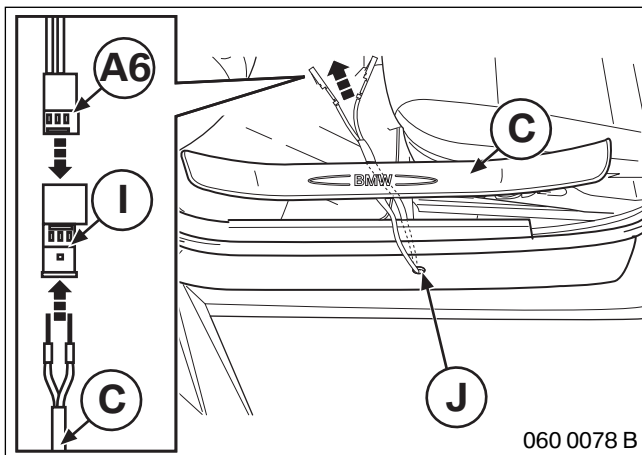
Drill an 8 mm Ø hole at the marked point **at the front** of the side sill panel flange and at the same point in the vehicle interior.

a = 75 mm  
b = 22 mm



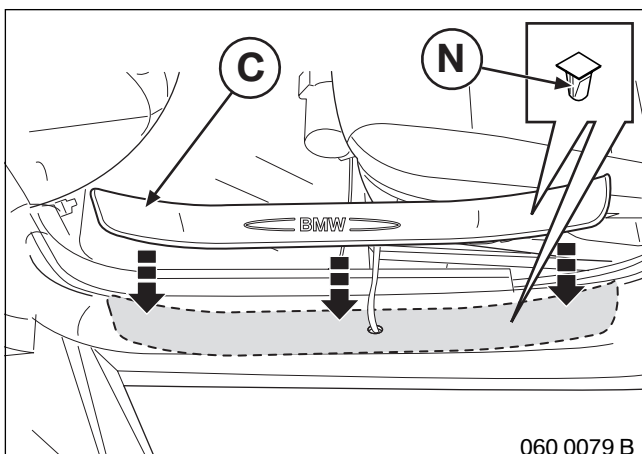
- ▶ The illustration shows the front left sill panel. Follow the same procedure on the front right sill panel. ◀

Fit rubber grommet **J** in drilled holes.



- ▶ The illustration shows the front left sill panel. Follow the same procedure on the front right sill panel. ◀

Pass connection cable of sill panel strip **C** through rubber grommet **J** into vehicle interior. Plug pin contact of sill panel strip **C** into pin housing **I**, chamber 1 and 2 and connect branch **A6** of adapter wiring harness.

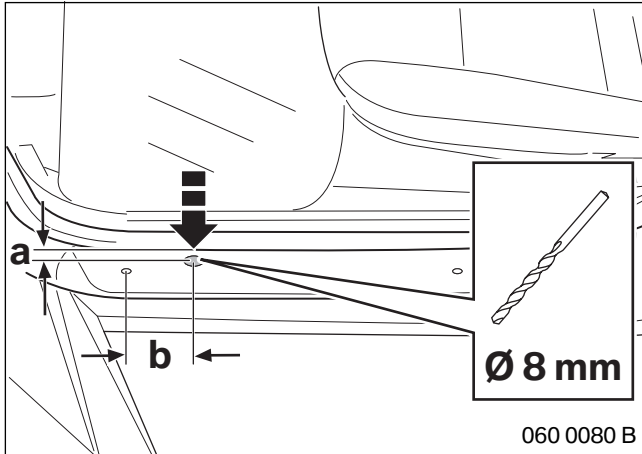


- ▶ The illustration shows the front left sill panel. Follow the same procedure on the front right sill panel. ◀

Remove protective film of adhesive strip on back of sill panel strip **C**.

Secure sill panel strip **C** with clips **N**.

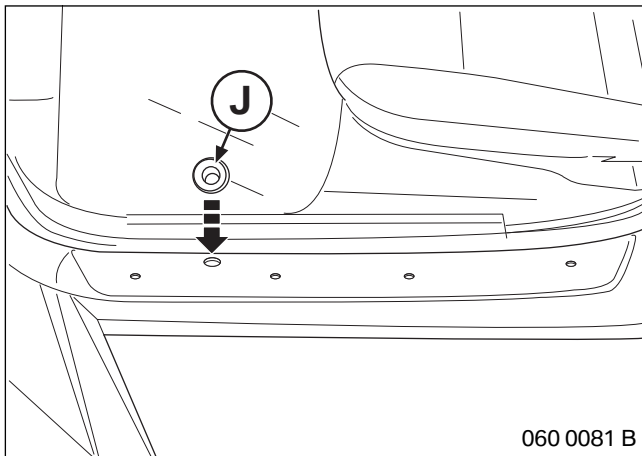
## 5. Installing adapter cable and sill panel strips



- ▶ The illustration shows the rear left sill panel. Follow the same procedure on the rear right sill panel. ◀

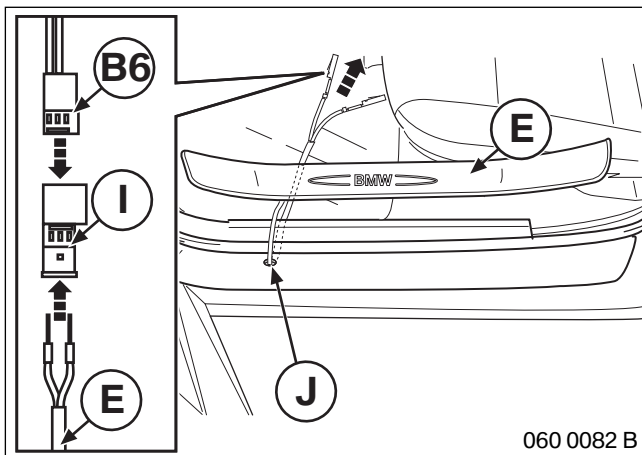
Drill an 8 mm Ø hole at the marked point **at the rear** of the side sill panel flange and remove inner rubber cover.

a = 25 mm  
b = 100 mm



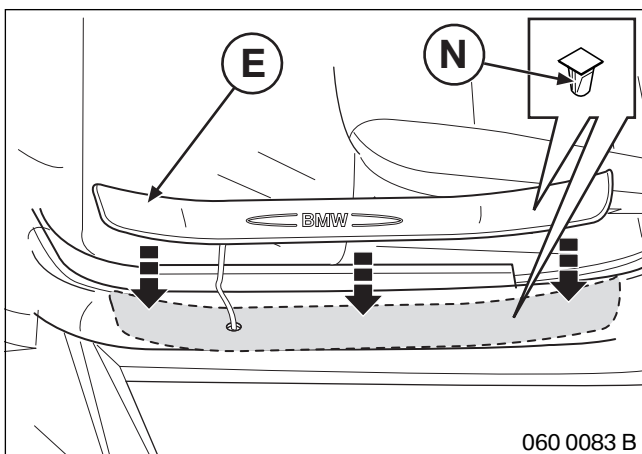
- ▶ The illustration shows the rear left sill panel. Follow the same procedure on the rear right sill panel. ◀

Fit rubber grommet **J** in drilled hole.



- ▶ The illustration shows the rear left sill panel strip. Follow the same procedure on the rear right sill panel. ◀

Pass connection cable of sill panel strip **E** through rubber grommet **J** into vehicle interior. Plug pin contact of sill panel strip **E** into pin housing **I**, chamber 1 and 2 and connect branch **B6** of adapter wiring harness.



- ▶ The illustration shows the rear left sill panel. Follow the same procedure on the rear right sill panel. ◀

Remove protective film of adhesive strip on back of sill panel strip **E**.

Secure sill panel strip **E** with clips **N**.

## **6. Concluding operations and encoding**

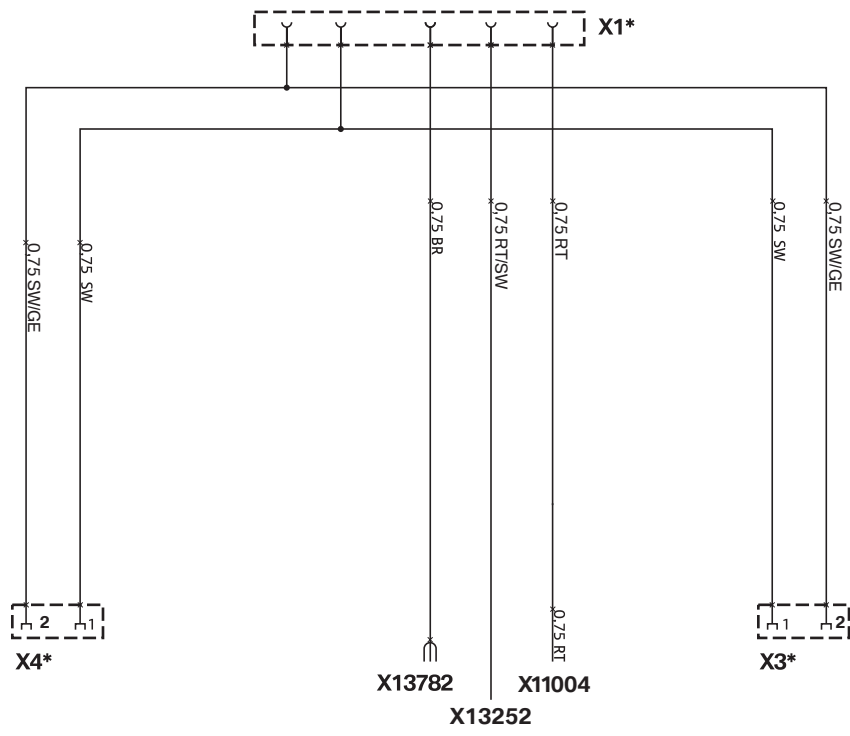
### **Finishing off**

Reconnect battery  
Check function  
Reassemble vehicle in the reverse order of removal  
Print out fault code memory

### **Encoding**

This system does not require encoding.

## 7. Schematic circuit diagram



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## 7. Schematic circuit diagram

### Key

<b>X1*</b>	8-pin socket housing
<b>X13252</b>	Open wire end, signal, PIN 52
<b>X11004</b>	1-pin pin contact, PIN 2 (wiring harness <b>A</b> )
<b>X11004</b>	Open wire end, PIN 2 (wiring harness <b>B</b> )
<b>X13782</b>	Cable shoe Ø 6 mm
<b>X3*</b>	3-pin socket housing
<b>X4*</b>	3-pin socket housing



The wiring harness **A** is the same as wiring harness **B**. ◀

All components marked with \* apply only to this schematic circuit diagram.  
All other components and X-designations correspond to the BMW Service circuit diagrams.

### Wire colours

BR	Brown
GE	Yellow
GN	Green
GR	Grey
RT	Red
SW	Black
VI	Violet
WS	White