



Parts and Accessories Installation Instructions

Active seat ventilation system retrofit kit BMW Z4 (E85)

Important information

Subject to technical modifications.

Installation time

The installation time is approx. 3.5 – 4 hours, which may vary according to the condition of the car and the equipment in it. This installation time is for each seat.

Retrofit kit No.

82 30 0 000 047

82 30 0 302 299

Target group

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 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.

Ordering instructions

The seat and backrest covers must be ordered separately in the appropriate colours (see EPC for part numbers).

Installation information

Ensure that the cables/lines are not kinked or damaged as you install them in the car.

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

If the specified PIN chambers are occupied, bridges, double crimps or twin-lead terminals must be used.

All the figures show LHD cars, proceed in exactly the same way on RHD cars.

This active seat ventilation retrofit system does not require coding.

Pictograms



denotes instructions that draw your attention to special features.



Denotes instructions of warnings that you must observe.



Denotes the end of the instruction or caution text.



Refer to the Technical Information System (TIS) for more information.

- See the EBA CD or ASAP (After Sales Assistance Portal) for explanations of the pictograms.
- Do not archive the hard copy of these installation instructions since daily updates are made by ASAP.


Special tools required

Pliers (52 0 050)

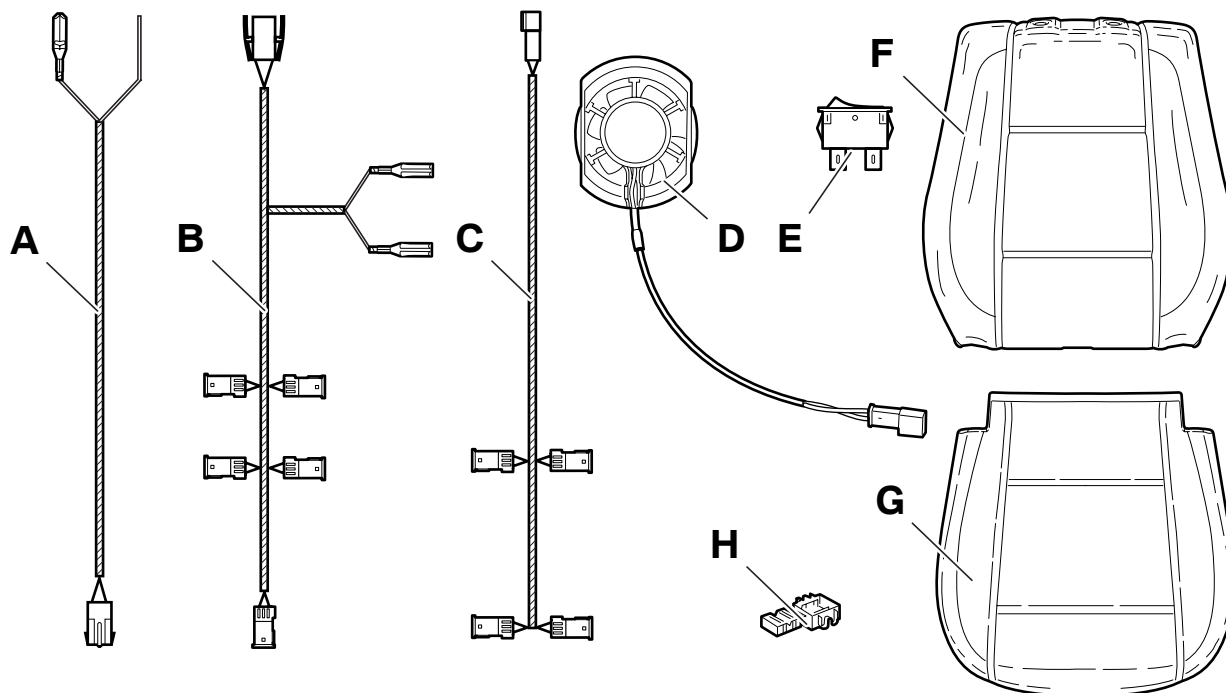
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1. Preparations

	TIS instruction No.
 Refer to the safety instructions for handling airbag modules and pyrotechnical belt tensioners. Incorrect handling may cause the pyrotechnical belt tensioner or side airbag to deploy and thus cause injuries. ◀	32 34 ...
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all:	
Glove compartment	51 16 360
Footwell trim on the passenger side	51 45 181
Front seat, left or right	52 13 000
Backrest cover, left or right	52 13 405
Seat cover, left or right	52 13 400
Pedal trim	51 45 185

2. Parts list

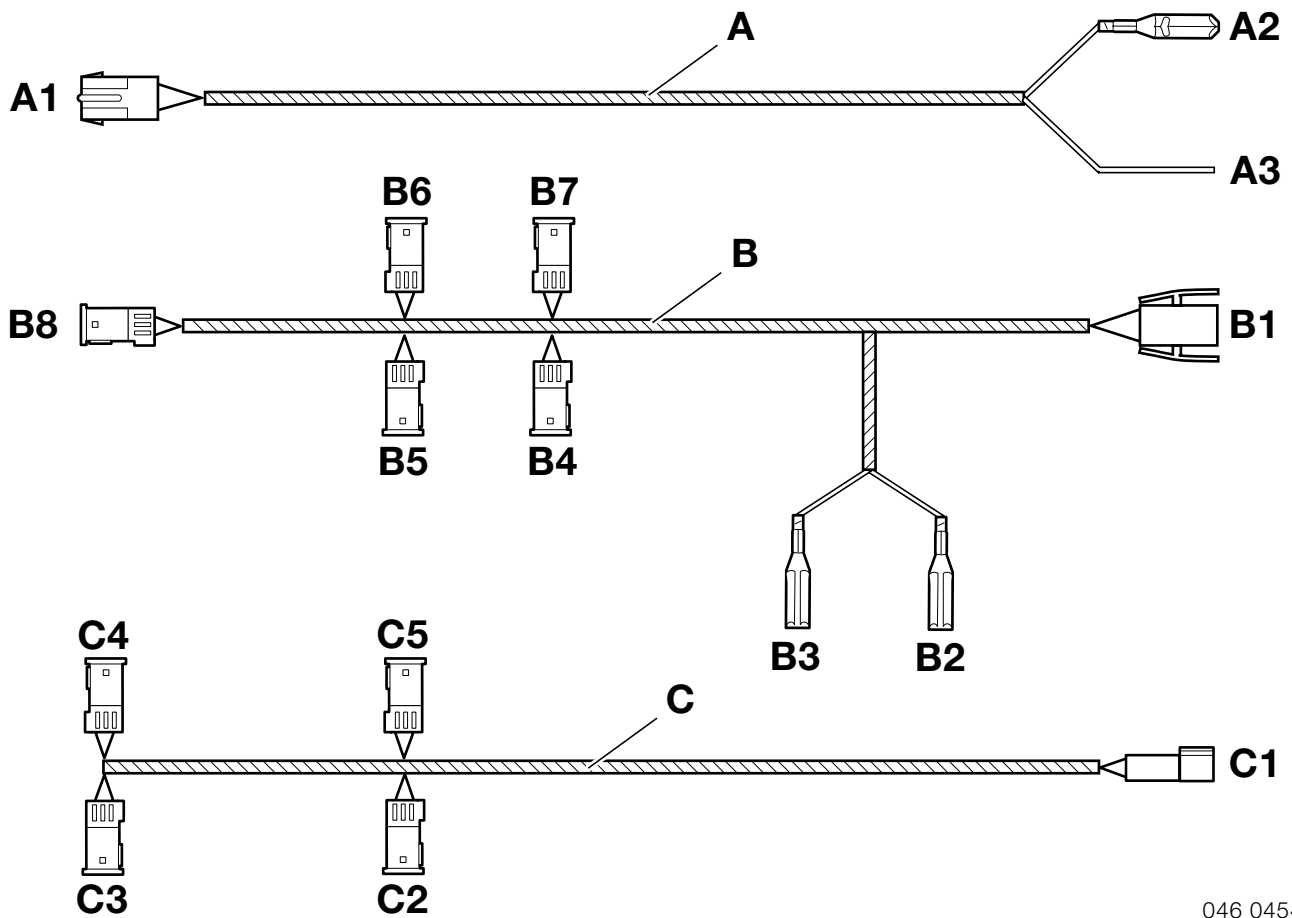


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Legend

- A** Power supply wiring harness
- B** Seat wiring harness
- C** Backrest wiring harness
- D** Blower motor (8x)
- E** Toggle switch
- F** Backrest cover with microperforations
- G** Seat cover with microperforations
- H** Miniature connector (2x)

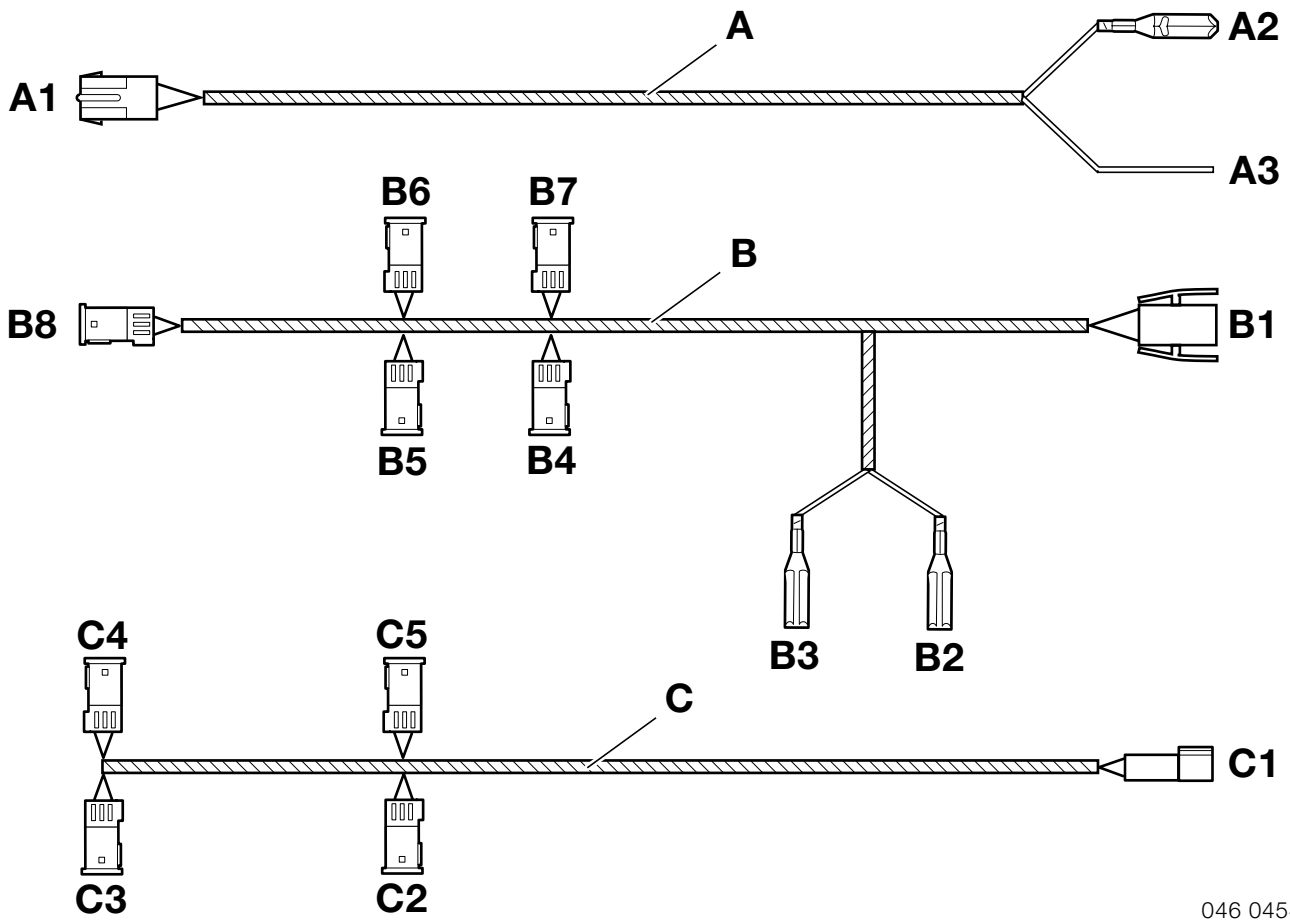
3. Retrofit wiring harness connection diagram



046 0454 Z

Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Power supply wiring harness	---	---	---	---
A1	SW 2-pin plug	---	---	On seat wiring harness, branch B1	X13528
A2	Joint connector contact	Terminal 31	BR 0.75 mm ²	In the joint connector behind the glove compartment	X18726
A3	Cable branch	Terminal 15	VI 0.75 mm ²	Connect to the existing GN/WS cable with a miniature connector on the fuse box	X1429
B	Seat wiring harness	---	---	---	---
B1	SW 2-pin plug	---	---	On power supply wiring harness, branch A1	X13528
B2	Blade terminal contact	Terminal 15	VI 0.75 mm ²	On the toggle switch	X3158 PIN 1
B3	Blade terminal contact	Terminal 15	VI 0.75 mm ²	On the toggle switch	X3472 PIN 2
B4	SW 3-pin plug	---	---	On seat blower motor	X13673
B5	SW 3-pin plug	---	---	On seat blower motor	X13674
B6	SW 3-pin plug	---	---	On seat blower motor	X13675
B7	SW 3-pin plug	---	---	On seat blower motor	X13676
B8	WS 3-pin plug	---	---	On backrest wiring harness, branch C1	X13530

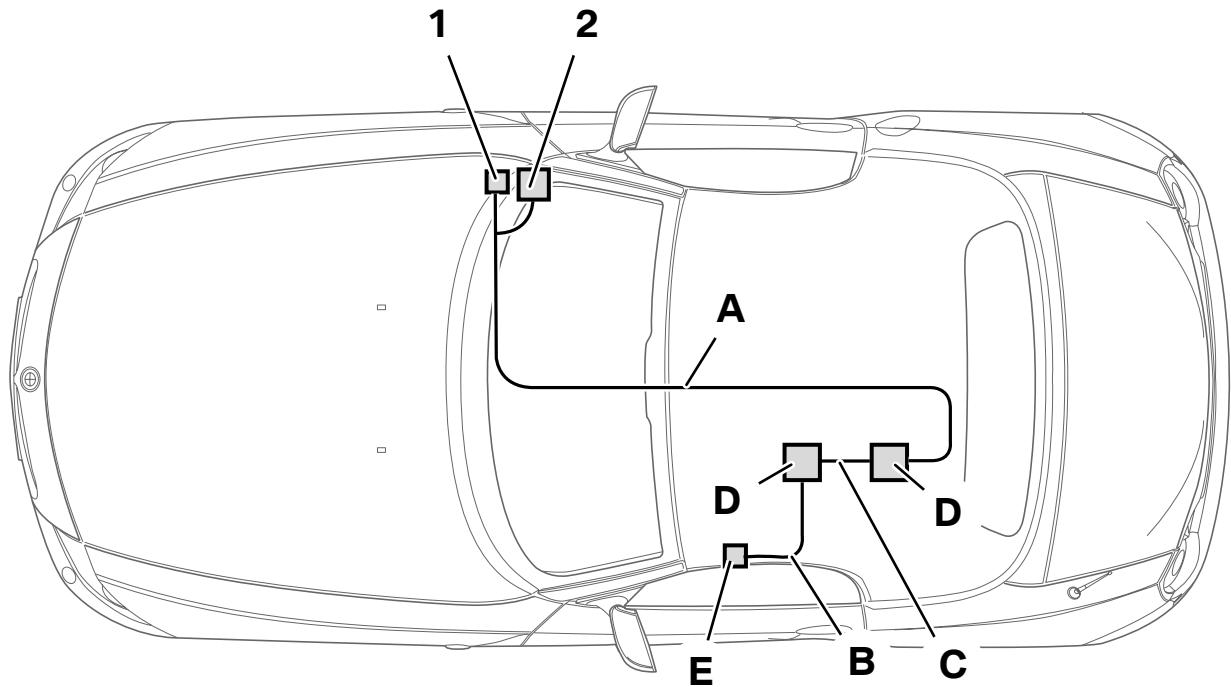
3. Retrofit wiring harness connection diagram



046 0454 Z

Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
C	Backrest wiring harness	---	---	---	---
C1	WS 3-pin plug	---	---	On seat wiring harness, branch B8	X13530
C2	SW 3-pin plug	---	---	On backrest blower motor	X13669
C3	SW 3-pin plug	---	---	On backrest blower motor	X13670
C4	SW 3-pin plug	---	---	On backrest blower motor	X13671
C5	SW 3-pin plug	---	---	On backrest blower motor	X13672

4. Installation and cabling diagram

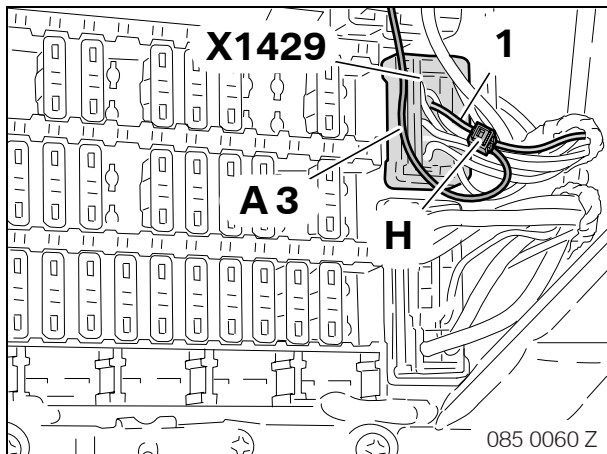


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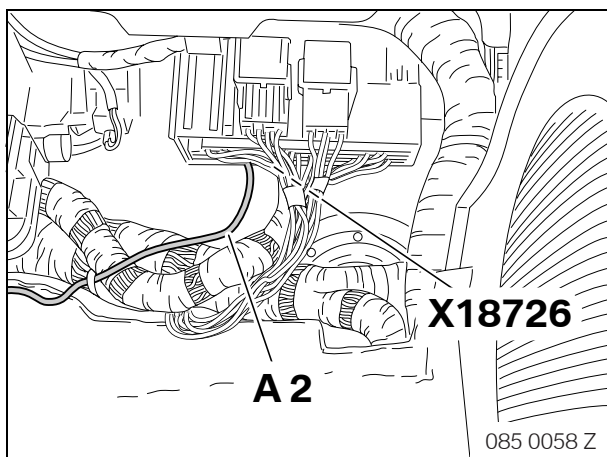
Legend

- 1** Joint connector **X18726**
- 2** Fuse box
- A** Power supply wiring harness
- B** Seat wiring harness
- C** Backrest wiring harness
- D** Seat blower motor (4x)
- D** Backrest blower motor (4x)
- E** Toggle switch

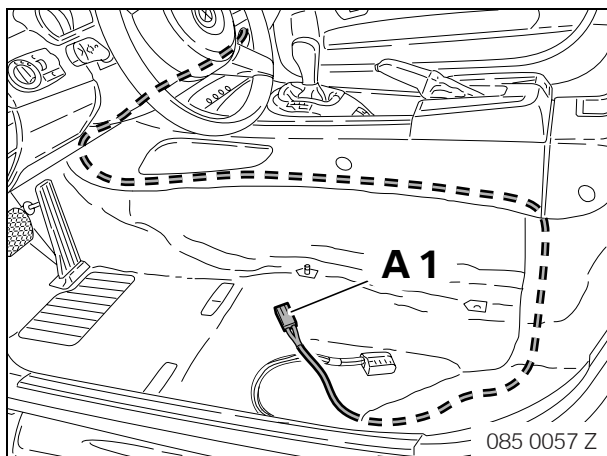
5. To install the power supply wiring harness



Connect branch **A3**, VI cable, to the black plug **X1429** on the GN/WS cable (1) using a miniature connector **H**.

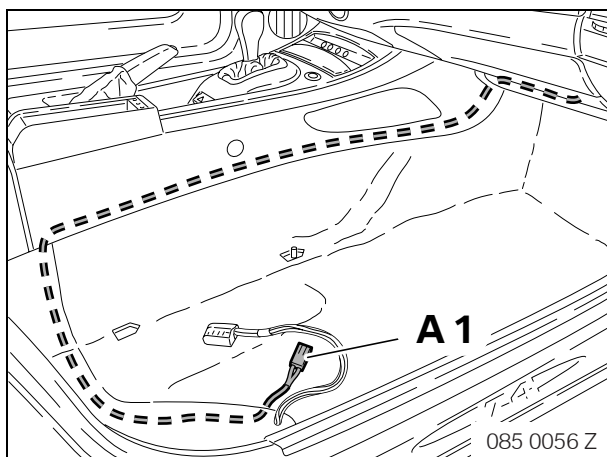


Connect branch **A2**, BR cable, to joint connector **X18726**.



Connection on left-hand side of the car

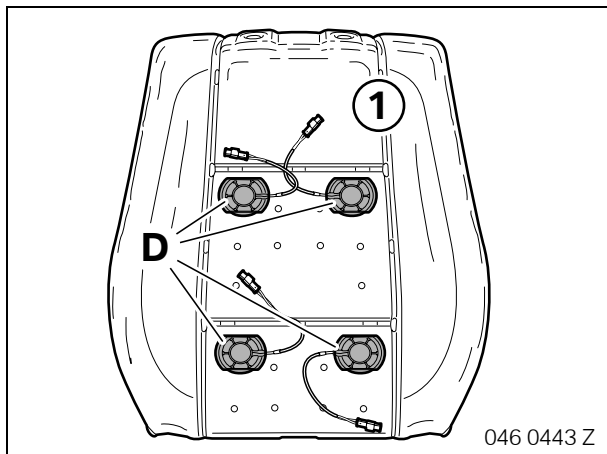
Route branch **A1** behind the heater under the centre console and carpet to the seat.



Connection on right-hand side of the car

Route branch **A1** under the centre console and carpet to the seat.

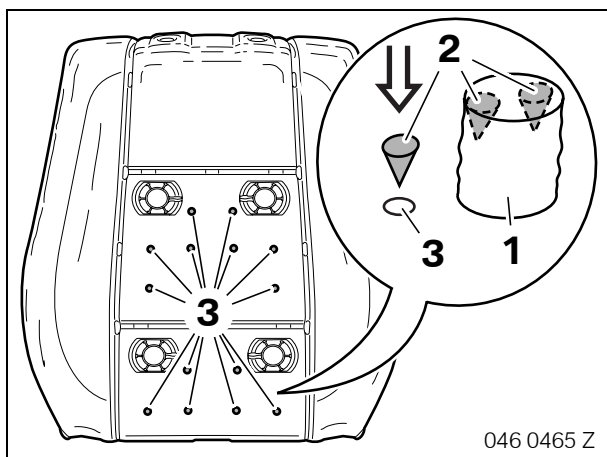
6. To install and connect the blower motors



Position the blower motors **D** as shown on the backrest padding (2) and mark the contours.

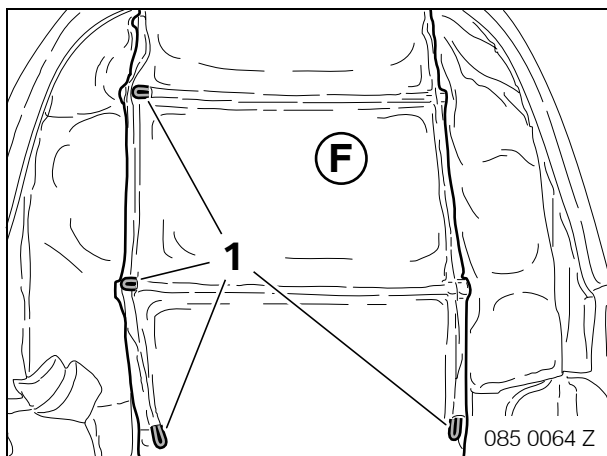
Cut out the backrest padding (1) accordingly in a cylindrical shape.

Affix the blower motors **D** flush with the surface.



Cut cone-shaped pieces (2) out of the foam cylinders (1) you cut out earlier.

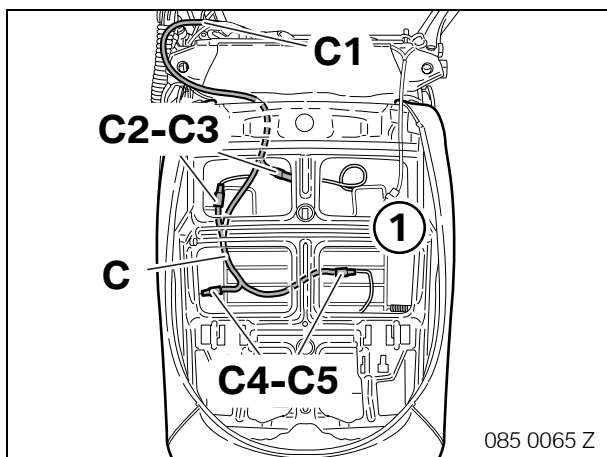
Seal all passive ventilation holes (3) with foam cones (2).



Pull the trimming wires (1) out of the old backrest cover and insert them into the new backrest cover **F**.

TIS Modify the belt guide. See RA 52 13 405.

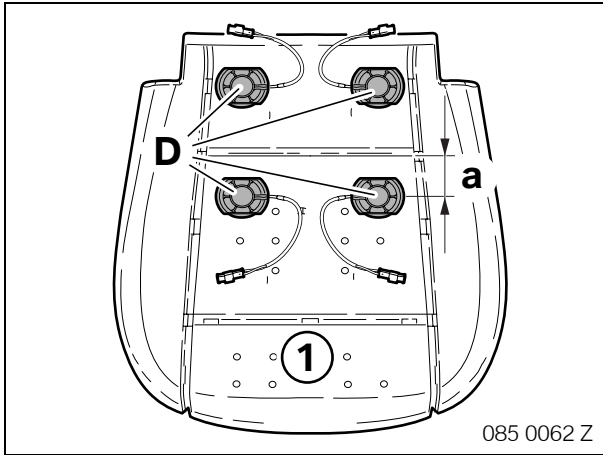
Fit the new backrest cover **F** on to the backrest padding and seat frame.



Install wiring harness **C** as shown in the backrest frame (1) and connect branches **C2 – C5** to the blower motors.

Secure the wiring harness **C** to the seat frame (1) with cable ties.

6. To install and connect the blower motors



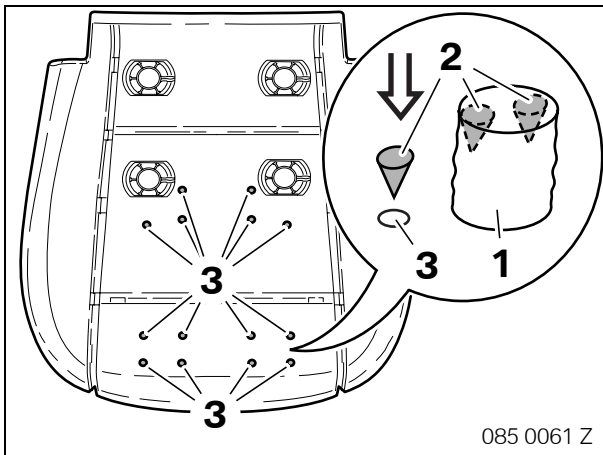
▶ On the passenger seat the blower motors must be positioned in the cavities in the seat occupation mat. ◀

Position the blower motors **D** on the seat padding (1) and mark the contours.

Dimension **a**: 75 mm

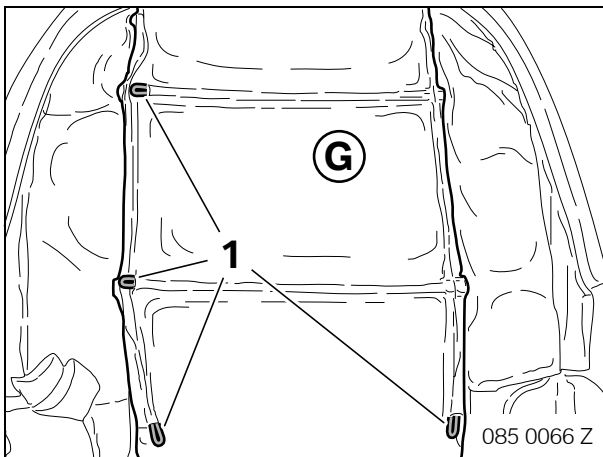
Cut out the seat padding (1) accordingly in a cylindrical shape.

Affix the blower motors **D** flush with the surface.



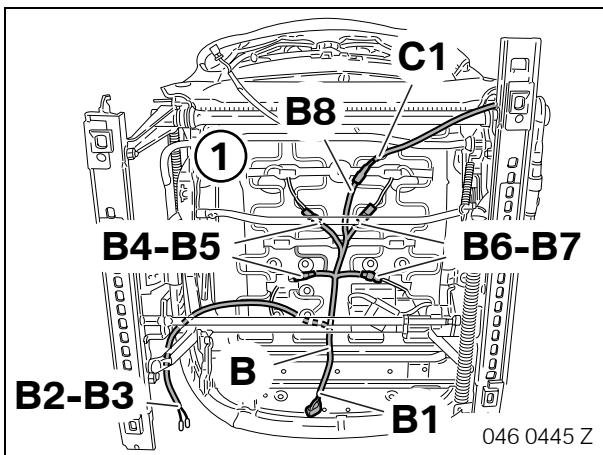
Cut cone-shaped pieces (2) out of the foam cylinders (1) you cut out earlier.

Seal all passive ventilation holes (3) with foam cones (2).



Pull the trimming wires (1) out of the old seat cover and insert them into the new seat cover **G**.

Fit the new seat cover **G** on the seat padding and seat frame.

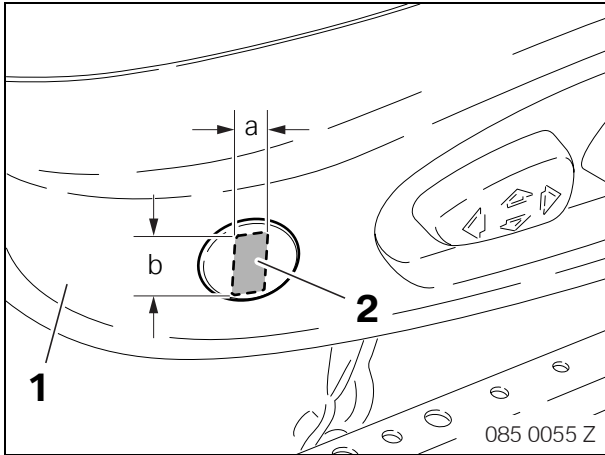


Install wiring harness **B** as shown in the seat frame (1) and connect branches **B4 – B7** to the blower motors.

Connect branch **B8** to branch **C1**.

Secure wiring harness **B** to the seat frame (1) with cable ties.

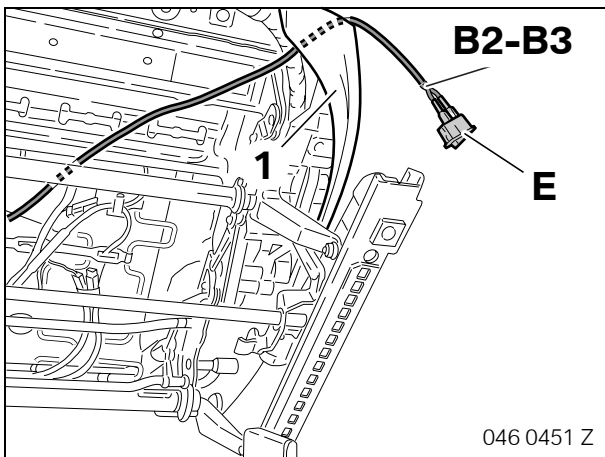
6. To install and connect the blower motors



Mark the seat trim (1) and cut out the marked area (2).

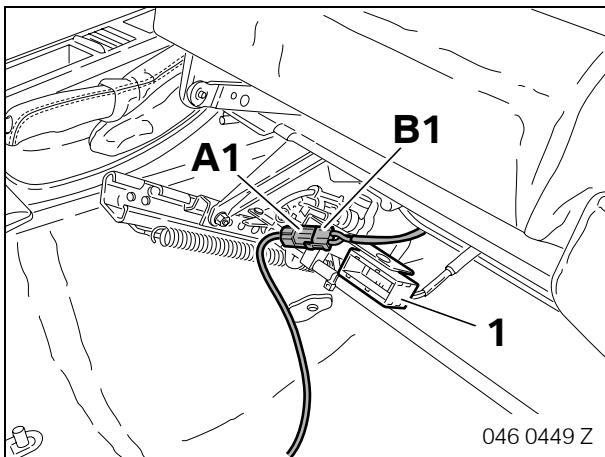
Dimension **a**:19.5 mm

Dimension **b**:6.8 mm



Thread branches **B2 - B3** through the seat trim (1) and connect the toggle switch **E**.

Clip the toggle switch **E** into the seat trim (1).



Connect branch **A1** to branch **B1**.

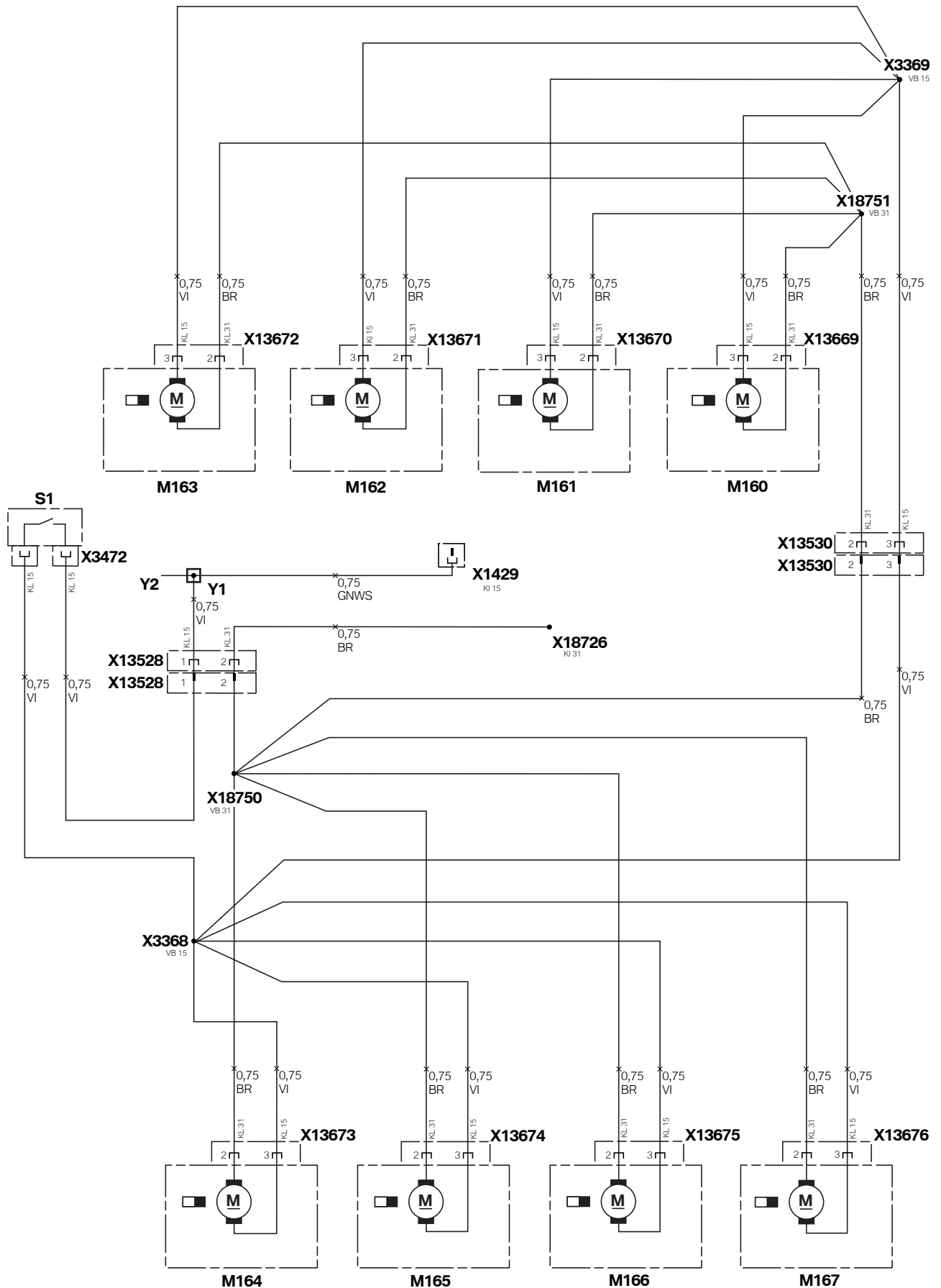
Secure the plug connection **A1/B1** to the seat isolation switch (1) using a cable tie.

7. Concluding work

This system does not require coding

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

8. Circuit diagram for the active seat ventilation system E85



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8. Circuit diagram for the active seat ventilation system E 85

Legend

M160	Backrest blower motor
M161	Backrest blower motor
M162	Backrest blower motor
M163	Backrest blower motor
M164	Seat blower motor
M165	Seat blower motor
M166	Seat blower motor
M167	Seat blower motor
S1	Toggle switch
X1429	SW 12-pin plug
X3368	Terminal 15 connector
X3369	Terminal 15 connector
X3472	Toggle switch
X13528	SW 2-pin plug
X13530	WS 3-pin plug
X13669	SW 3-pin plug, backrest blower motor
X13670	SW 3-pin plug, backrest blower motor
X13671	SW 3-pin plug, backrest blower motor
X13672	SW 3-pin plug, backrest blower motor
X13673	SW 3-pin plug, seat blower motor
X13674	SW 3-pin plug, seat blower motor
X13675	SW 3-pin plug, seat blower motor
X13676	SW 3-pin plug, seat blower motor
X18726	Terminal 31 joint connector
X18750	Terminal 31 connector
X18751	Terminal 31 connector
Y1	Miniature connector
Y2	To standard wiring harness

Cable colours

BL	blue	GN	green
BR	brown	VI	violet
GE	yellow	WS	white