



Parts and Accessories. Installation Instructions.

Retrofit alarm system BMW 5 Series (E60)

Retrofit kit No. 65 73 0 304 463

Installation time

The installation time is approx 5.0 -5.5 hours, but 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.

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

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.

Before you install the retrofit system, test the control module status with the CIP (coding, customising, programming) test program. If the test detects incorrect statuses in one or more control modules, these must be updated first using the "Load software" function.

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

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.

See the EBA CD or Aftersales Portal for explanations of the pictograms.

Do not archive the hard copy of these installation instructions since daily updates are made by Aftersales Portal.

Subject to technical modifications.

Installation information

After the installation work the retrofit kit must be programmed / coded using DISPlus or GT-1 via the **Retrofit** path.

Ordering instructions

The ceiling light cover is not included in the installation kit and must be ordered separately for the appropriate interior colour (see EPC for part number and description).

List of special equipment

The following special equipment must be taken into consideration when installing the retrofit kit:

SA 431 Interior automatic anti-dazzle rear-view mirror

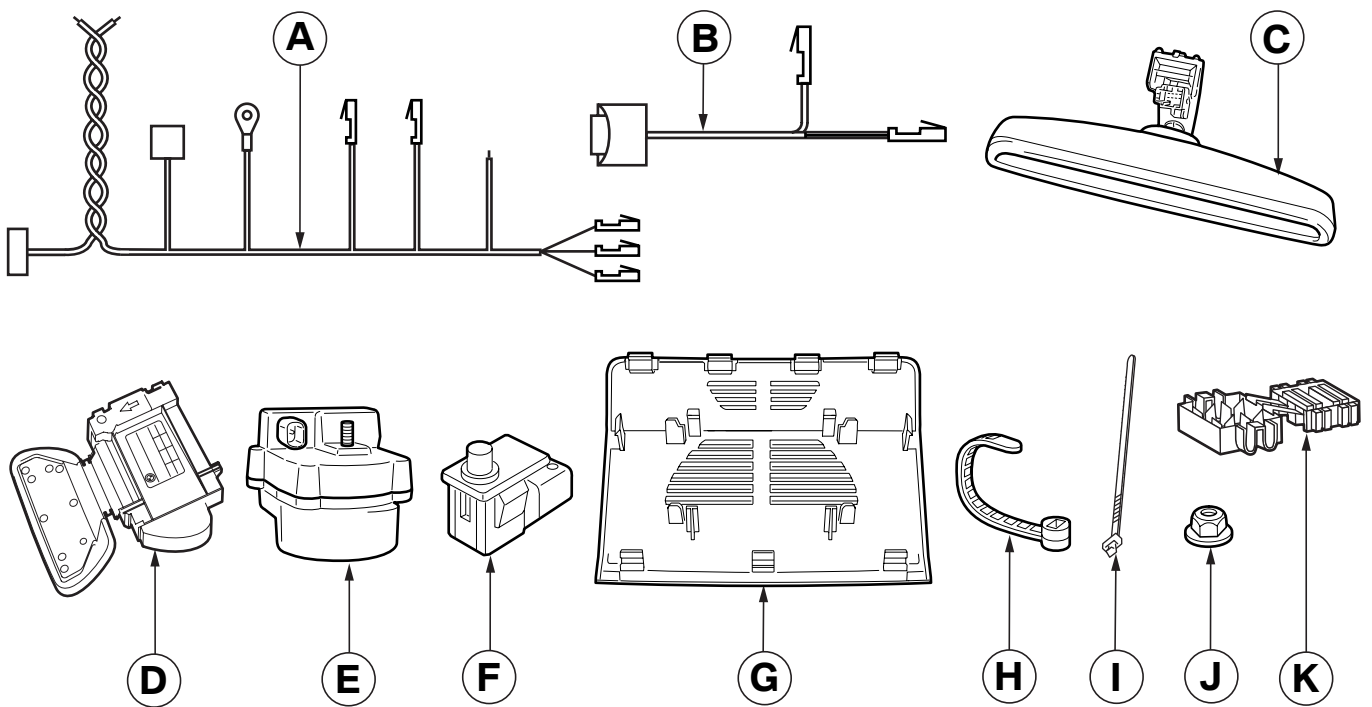
Special tools required

00 9 317 Trim wedge

Contents

Section	Page
1. Parts list	4
2. Preparations.....	5
3. Wiring harnesses A and B connection diagram.....	6
4. Installation and cabling diagram	7
5. To install wiring harness B	8
6. To install wiring harness A	9
7. To install the siren, ultrasonic module and electric chrome mirror	12
8. Concluding work and coding	14
9. Circuit diagram for the alarm system	15

1. Parts list



060 0037 Z

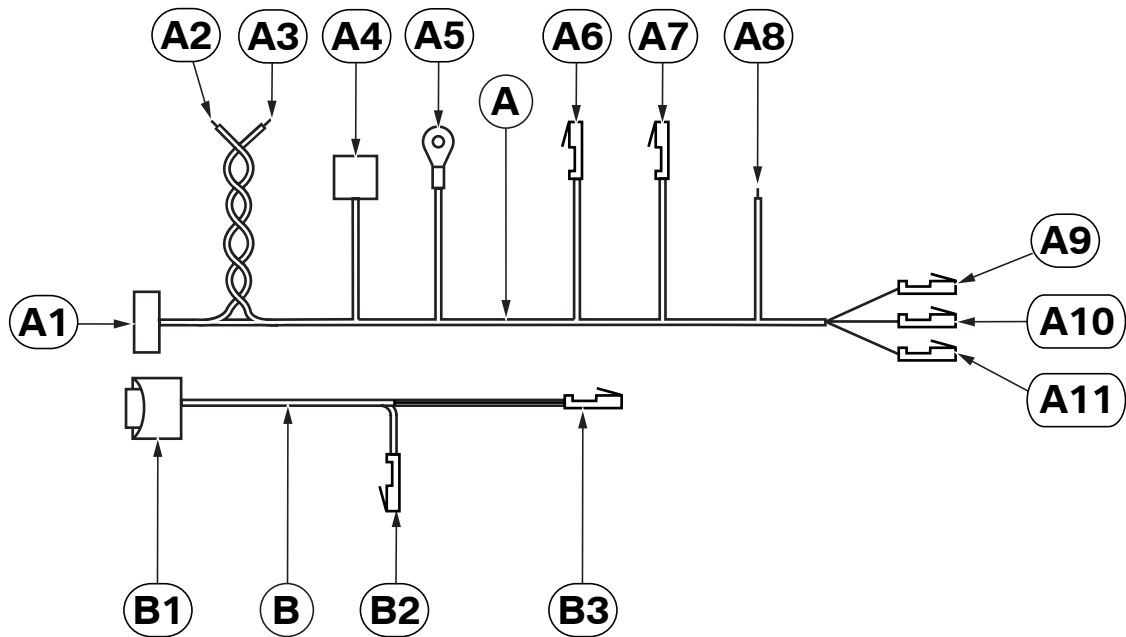
Legend

- A Wiring harness A
- B Wiring harness B:
- C Electric chrome mirror
- D Ultrasonic module
- E Emergency-current siren
- F Bonnet contact switch
- G Ceiling light cover (not included in kit)
- H Cable tie L = 50 mm (2x)
- I Cable tie L = 200 mm (20x)
- J Nut M6
- K Miniature connector (4x)

2. Preparations

	TIS No.
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all	
Microfilter cover	64 31 010
Microfilter casing bottom section, right	64 31 061
Electrics box cover	---
Glove box on the right	51 16 366
Trim for instrument panel at the bottom right	51 45 181
Oddments box on left-hand side of the car	51 16 ...
Pedal trim	51 45 185
Interior rear-view mirror	---
Sun visors, left and right	---
Front ceiling light	63 31 000
Rear ceiling light	63 31 003
Right grab handles	---
Roof pillar trim on the right	51 43 201
B pillar trim at the top right	---
Rear seat	52 24 005
Backrest side section on the rear seat backrest, right	52 26 008
Fold down the right-hand rear seat backrest	---
C pillar trim at the top right	---
C pillar trim at the bottom right	---
Boot trim on the right.	---
Rear bumper trim	---
Right bumper trim holder	---
Lower the headlining on the right	---

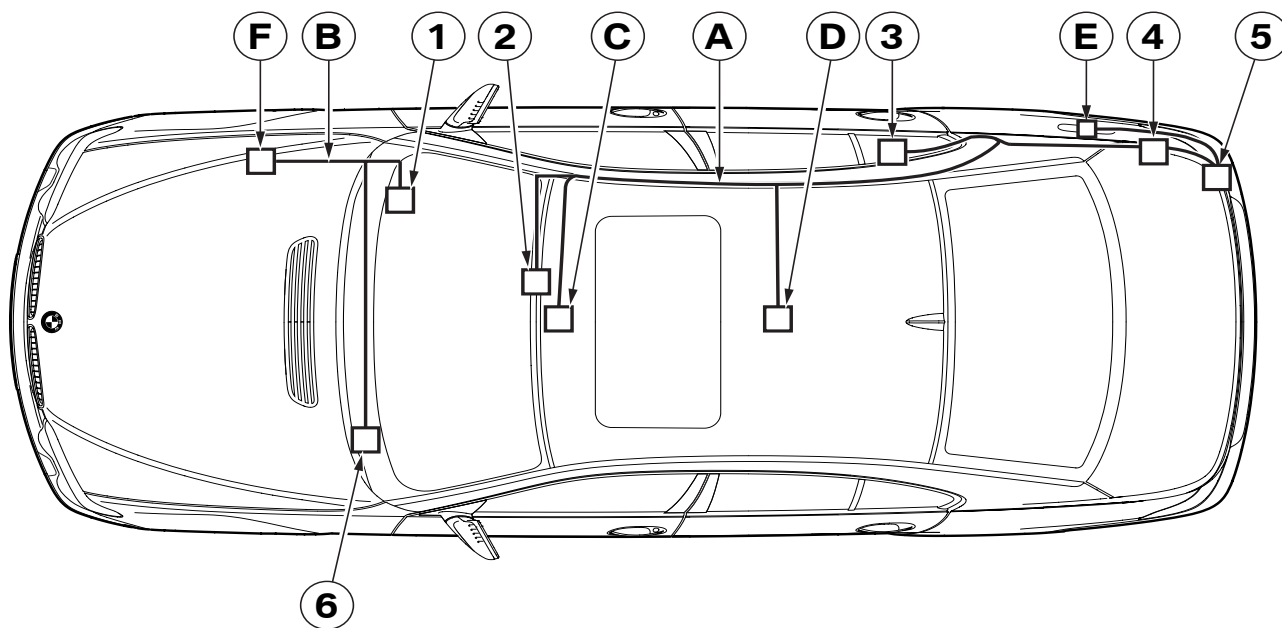
3. Wiring harnesses A and B connection diagram



060 0065 Z

Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Wiring harness A	---	---	---	---
A1	Socket casing	---	SW	Electric chrome mirror	X18246
A2	Cable open	CAN HIGH	SW 0.50 mm ²	CAN high on rain sensor	X15011
A3	Cable open	CAN LOW	GE 0.50 mm ²	CAN low on rain sensor	X15012
A4	Socket casing	---	SW	Ultrasonic module	X1582
A5	Cable eyelet M6	Terminal 31	BR 0.50 mm ²	Joint connector on the right on C pillar	X13790
A6	Socket contact	Terminal 30	RT/SW 0.50 mm ²	Power module SW 32-pin plug	X11012 PIN 6
A7	Socket contact	Terminal 15	GN/GE 0.35 mm ²	Power module SW 32-pin plug	X11012 PIN 15
A8	Cable open	RFS	BL/GE 0.35 mm ²	Right tail light	X318 PIN 3
A9	Socket contact	Terminal 31	BR 0.50 mm ²	Emergency-current siren	X372 PIN 1
A10	Socket contact	DWAH	SW/BL 0.50 mm ²	Emergency-current siren	X372 PIN 2
A11	Socket contact	Terminal 30	RT/SW 0.50 mm ²	Emergency-current siren	X372 PIN 3
B	Wiring harness B:	---	---	---	---
B1	Socket casing	---	SW	Bonnet contact switch	X161
B2	Socket contact	Terminal 31	BR 0.50 mm ²	Joint connector	X1816
B3	Socket contact	MHK	VI/GN 0.50 mm ²	To CAS control module SW 41-pin plug	X10318 PIN 38

4. Installation and cabling diagram



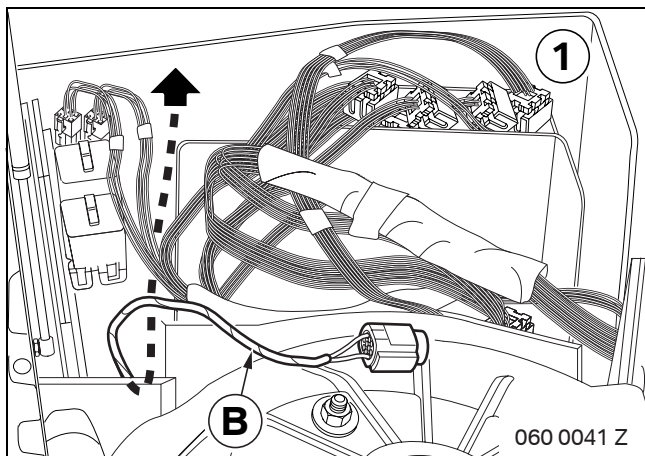
060 0040 Z

Legend

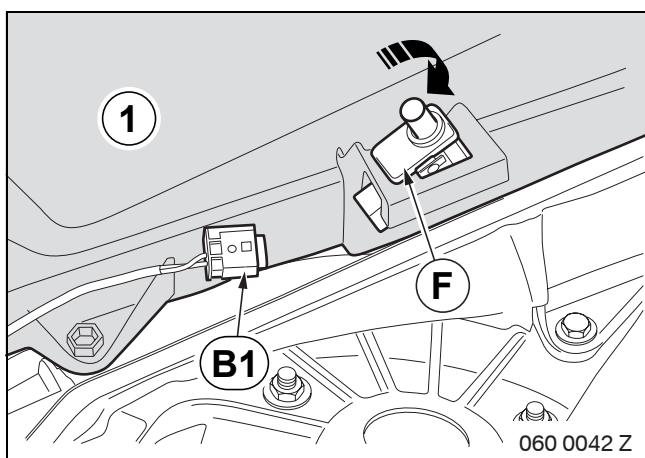
- A Wiring harness A
- B Wiring harness B
- C Electric chrome mirror
- D Ultrasonic module
- E Emergency-current siren
- F Bonnet contact switch

- 1 Joint connector **X1816**
- 2 Pick-up for CAN high/low **X15011** and **X15012**
- 3 Joint connector **X13790**
- 4 Power module **X11012**
- 5 Reversing signal pick-up **X318**
- 6 CAS control module connector **X10318**

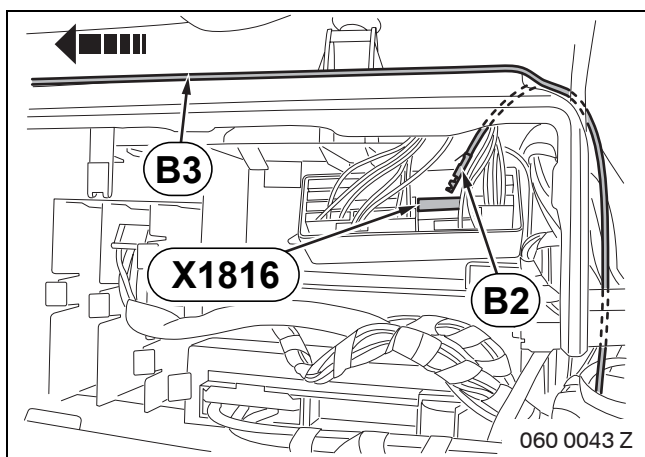
5. To install wiring harness B



Install the wiring harness **B** under the control module holder (1) through the bulkhead into the interior of the car.

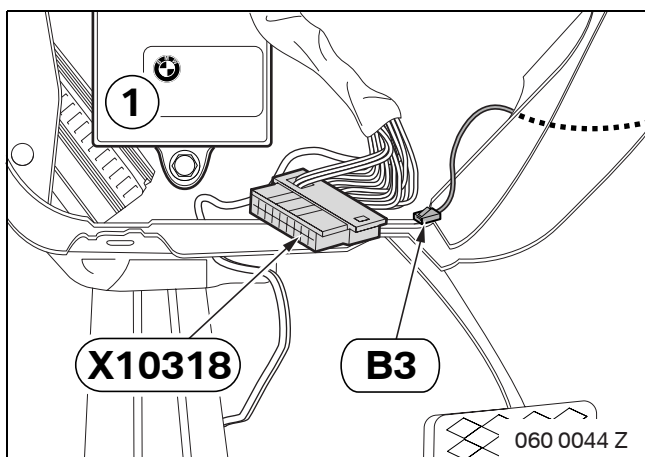


Insert the bonnet contact switch **F** to the holder on the microfilter cover (1) and connect it to branch **B1**.



Lay branch **B2**, BR cable, to the joint connector and connect it to plug **X1816**.

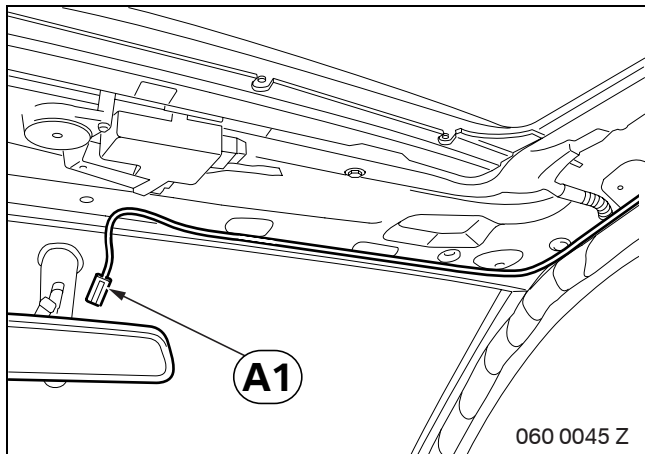
Lay branch **B3**, VI/GN cable, to the CAS control module on the left-hand side of the car.



Disconnect and release plug **X10318** from the CAS control module (1).

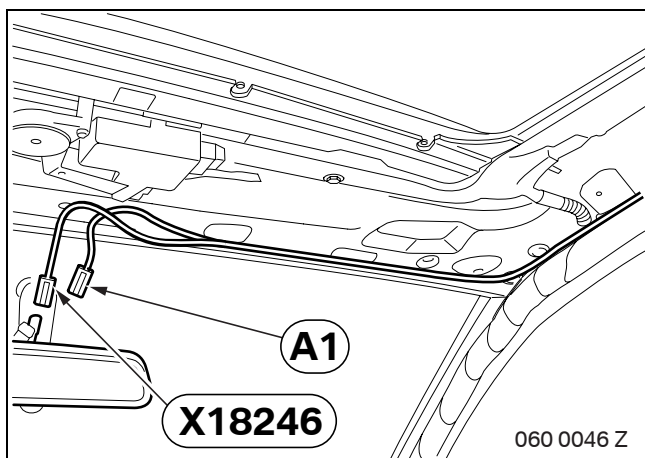
Connect branch **B3**, VI/GN cable, to plug **X10318** PIN 38.

6. To install wiring harness A



Cars without SA 431

Lay branch **A1** to the interior mirror connection point.



Cars with SA 431

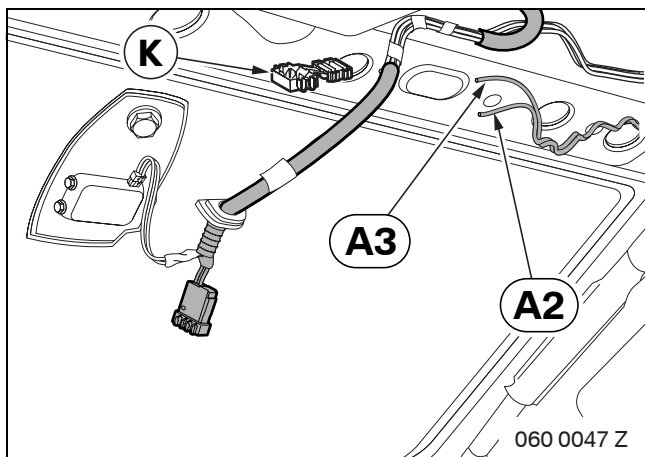
Lay branch **A1** to the electric chrome mirror connection point.

Disconnect the plug from branch **A1**.

Insulate and tie back the BL/GE, BR and GN/GE cables.

Connect the remaining cables to plug **X18246**:

- RT/SW in PIN 8
- GR/SW/GE in PIN 9

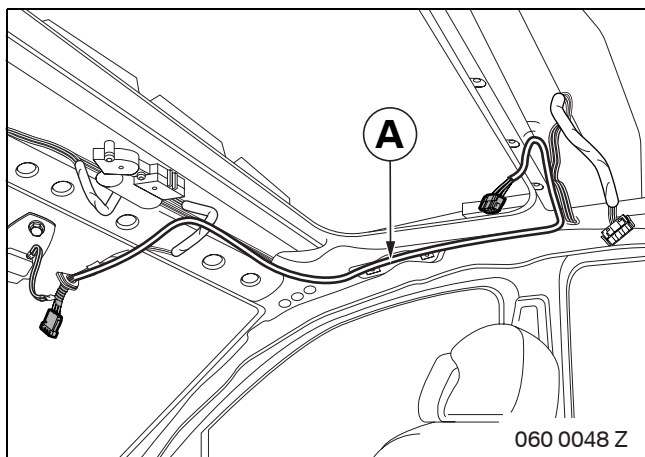


All cars

Connect branch **A2**, SW cable, to CAN high on the rain sensor using a miniature connector **K** to the same colour cable.

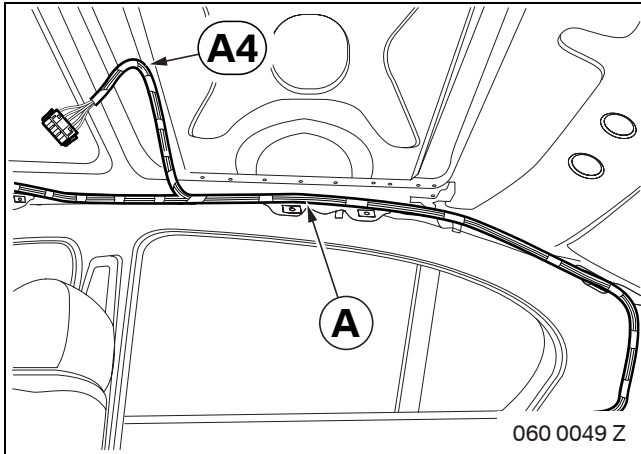
Connect branch **A3**, GE cable, to CAN low on the rain sensor using a miniature connector **K** to the same colour cable.

Tie back the excess lengths of branches **A2** and **A3**.



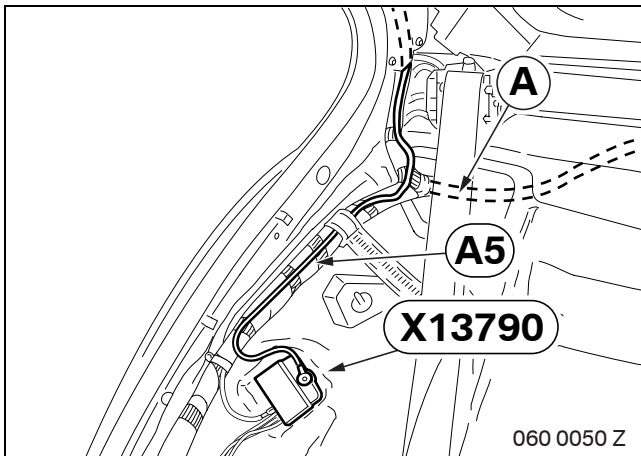
Lay wiring harness **A** to the right B pillar.

6. To install wiring harness A



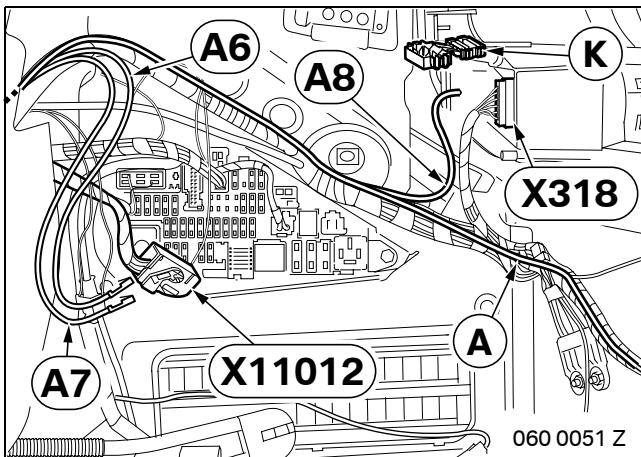
Lay branch **A4** to the centre of the roof near the rear ceiling light.

Lay wiring harness **A** to the right C pillar.



Screw branch **A5**, BR cable, to joint connector **X13790**, and tie back the excess length.

Lay wiring harness **A** to the boot.



Cars without SA 431

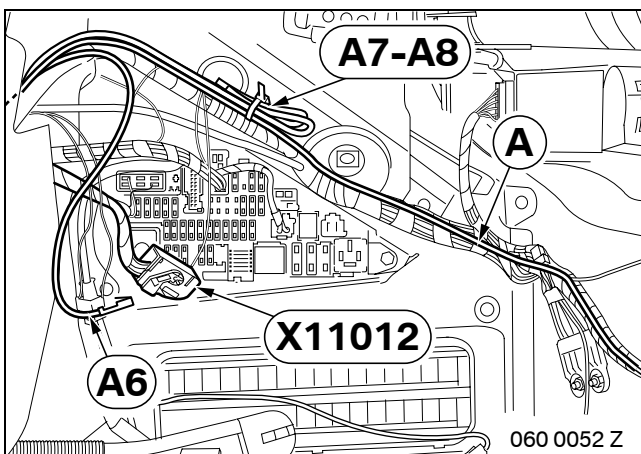
Disconnect and release plug **X11012** from the power module.

Connect branch **A6**, RT/SW cable, to plug **X11012** PIN 6.

Connect branch **A7**, GN/GE cable, to plug **X11012** PIN 15.

Connect branch **A8**, BL/GE cable, to plug **X318** PIN 3 using a miniature connector **K**.

Lay wiring harness **A** to the rear closing panel.



Cars with SA 431

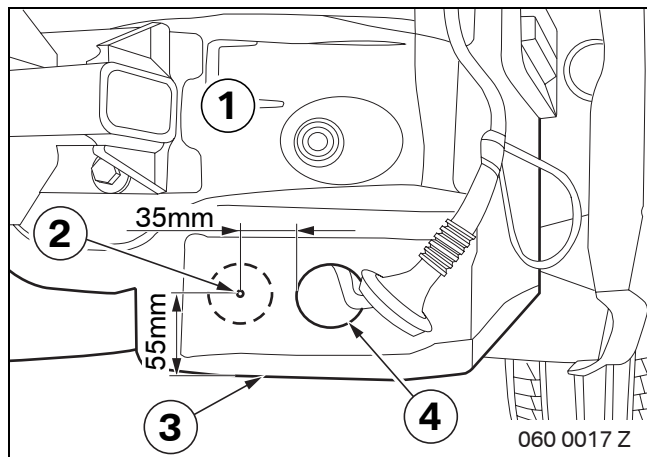
Disconnect and release plug **X11012** from the power module.

Connect branch **A6**, RT/SW cable, to plug **X11012** PIN 6.

Insulate and tie back branches **A7** and **A8**.

Lay wiring harness **A** to the rear closing panel.

6. To install wiring harness A



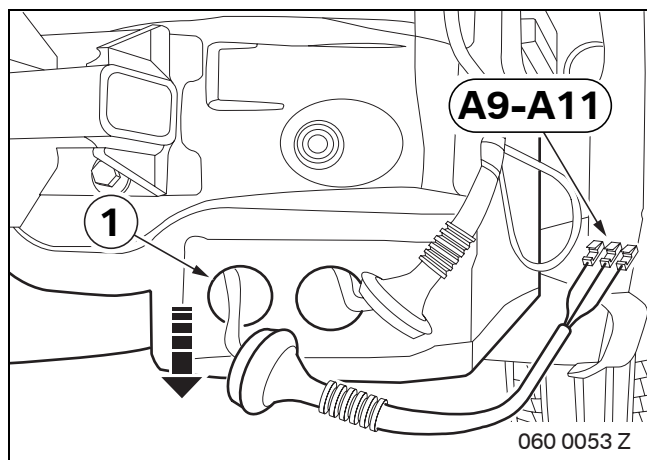
All cars

Mark the following dimensions on the rear closing panel (1).

- 35 mm from the outside of the cable passage (4)
- 55 mm from the bottom edge (3)

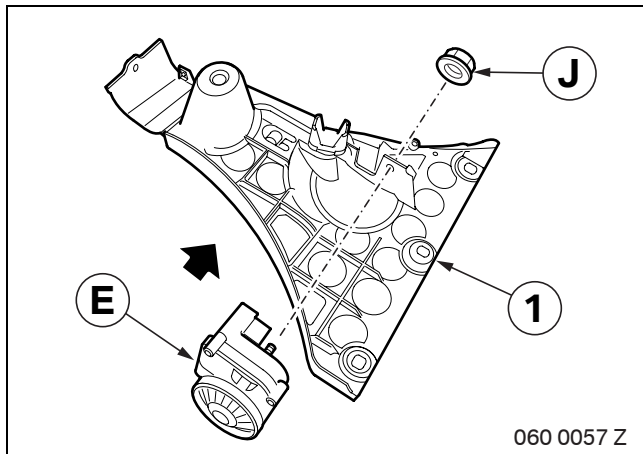
Enlarge the hole (2) using a 40 mm step drill.

Deburr the hole and coat the bare surfaces with preservative.

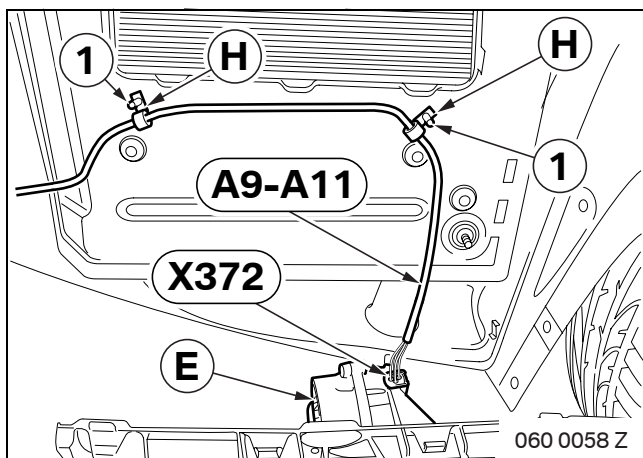


Thread branches **A9 - A11** through the hole (1).

7. To install the siren, ultrasonic module and electric chrome mirror



Secure the emergency-current siren **E** to the holder (1) using a nut **J**.

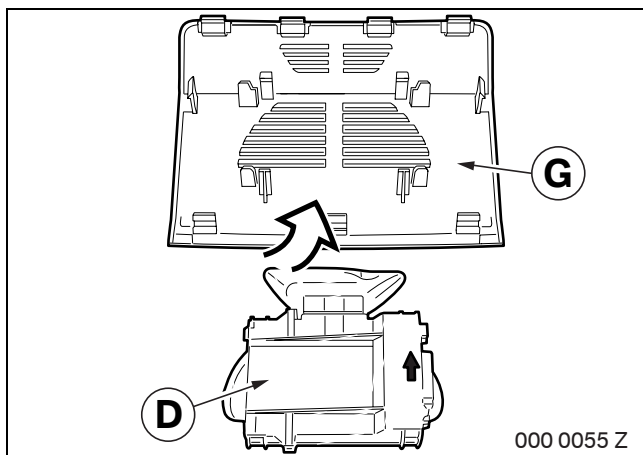


Secure branches **A9-A11** to the stud bolt (1) using cable ties **H**.

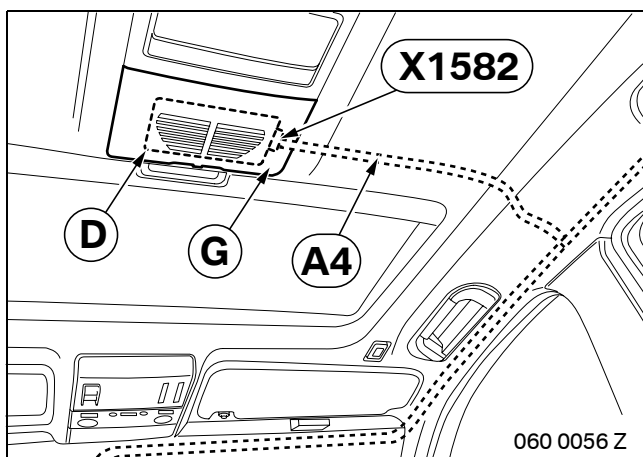
Connect branches **A9-A11** to plug **X372** as follows:

- Branch **A9**, BR cable, in PIN 1
- Branch **A10**, SW/BL cable, in PIN 2
- Branch **A11**, RT/SW cable, in PIN 3

Connect plug **X372** to the emergency-current siren **E**.



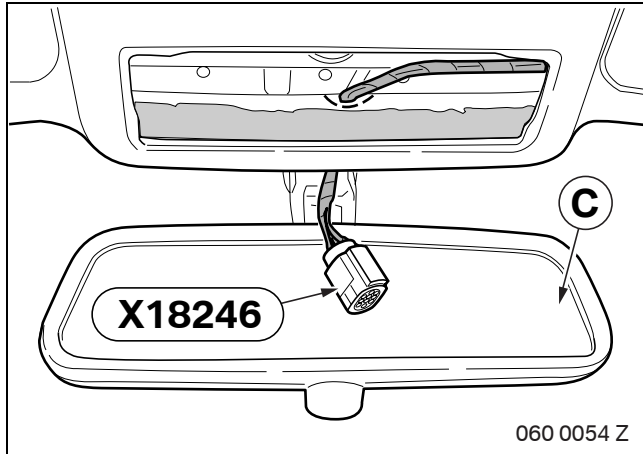
Clip the ultrasonic module **D** into the rear cover of the ceiling light **G**.



Connect branch **A4**, plug **X1582** to the ultrasonic module **D**.

Install the cover on the ceiling light **G**.

7. To install the siren, ultrasonic module and electric chrome mirror

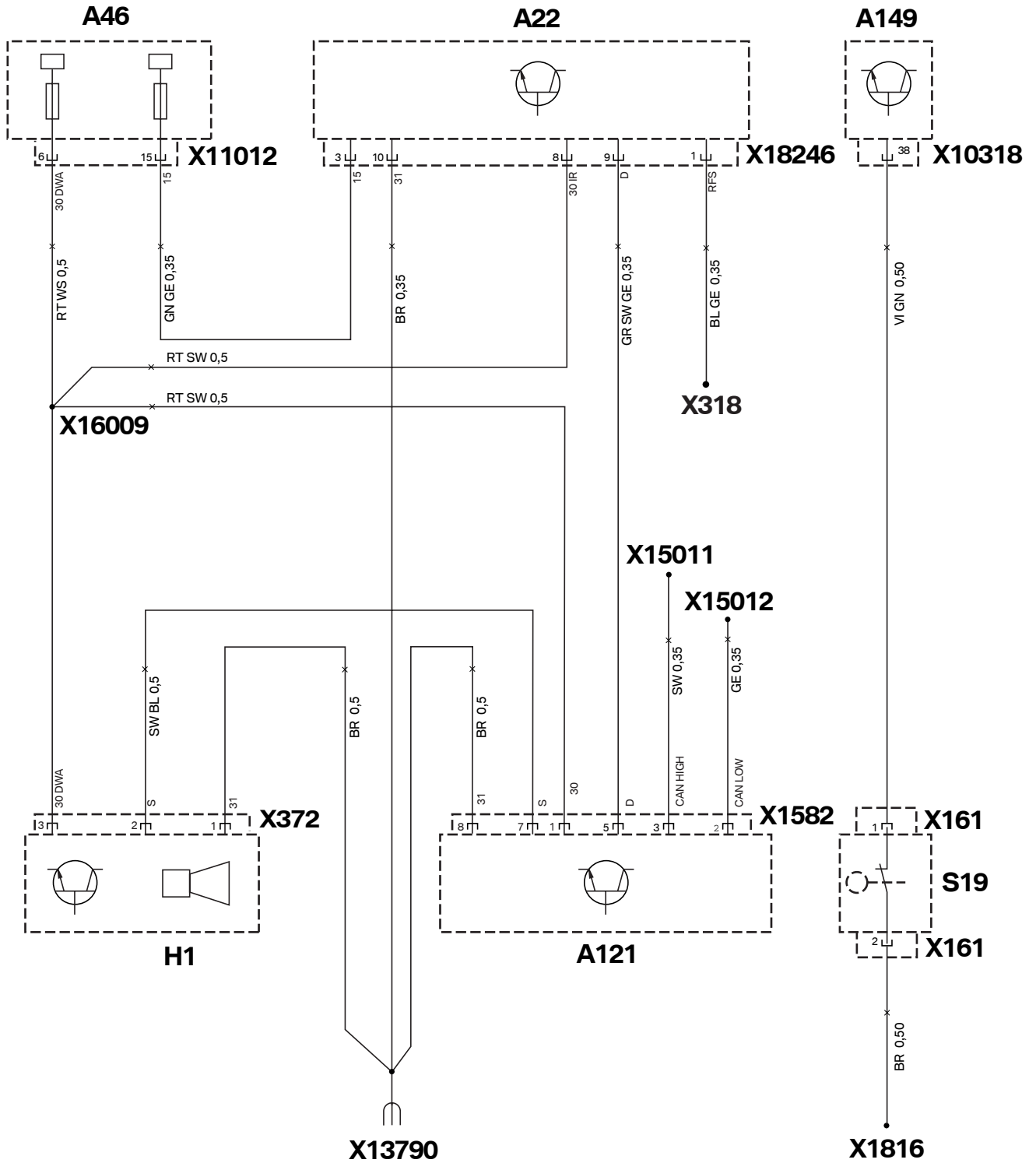


Install the electric chrome mirror **C** and connect plug **X18246**.

8. Concluding work and coding

- Connect the battery
- Code the retrofit using DISPlus or GT-1 via path **Retrofit**
- Conduct a brief test
- Conduct a function test
- Re-assemble the car.

9. Alarm system circuit diagram



060 0059 Z

9. Alarm switch circuit diagram

Legend

A22	Electric chrome mirror
A46	Power module
A121	Ultrasonic module
A149	CAS control module
H1	DWA emergency-current siren
S19	Engine compartment contact
X161	SW 3-pin plug
X318	SW 6-pin plug
X372	SW 3-pin plug
X1582	SW 8-pin plug
X1816	Joint connector
X10318	SW 41-pin plug
X11012	SW 32-pin plug
X13790	Joint connector
X15011	CAN high
X15012	CAN low
X16009	Connector
X18246	SW 10-pin plug

Cable colours

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