

Original BMW Accessories. Installation Instructions.



Cornering Light Retrofit BMW 3 Series (E90, E91)

These installation instructions apply to cars built before 09/98 only.

Retrofit kit No. 63 13 414 592 Cornering light retrofit

Installation time

The installation time is **approx. 2.0 hours**. This may vary depending on the condition of the car and the equipment in it. The installation time will increase by **approx. 0.5 hours** for cars without fog lights.

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).

Specify the following information:

- Chassis number
- Part number of the retrofit kit
- A precise description of the problem
- Work steps 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.

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.

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

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

Ordering instructions

The following parts are not supplied in the cornering light retrofit kit and must be ordered separately (see EPC for part number and details).

- Fog light cable kit **B** (cars without SA 520 only)
- Light control unit **G** (cars without SA 520 only)

List of special equipment

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

SA 520 Fog lights

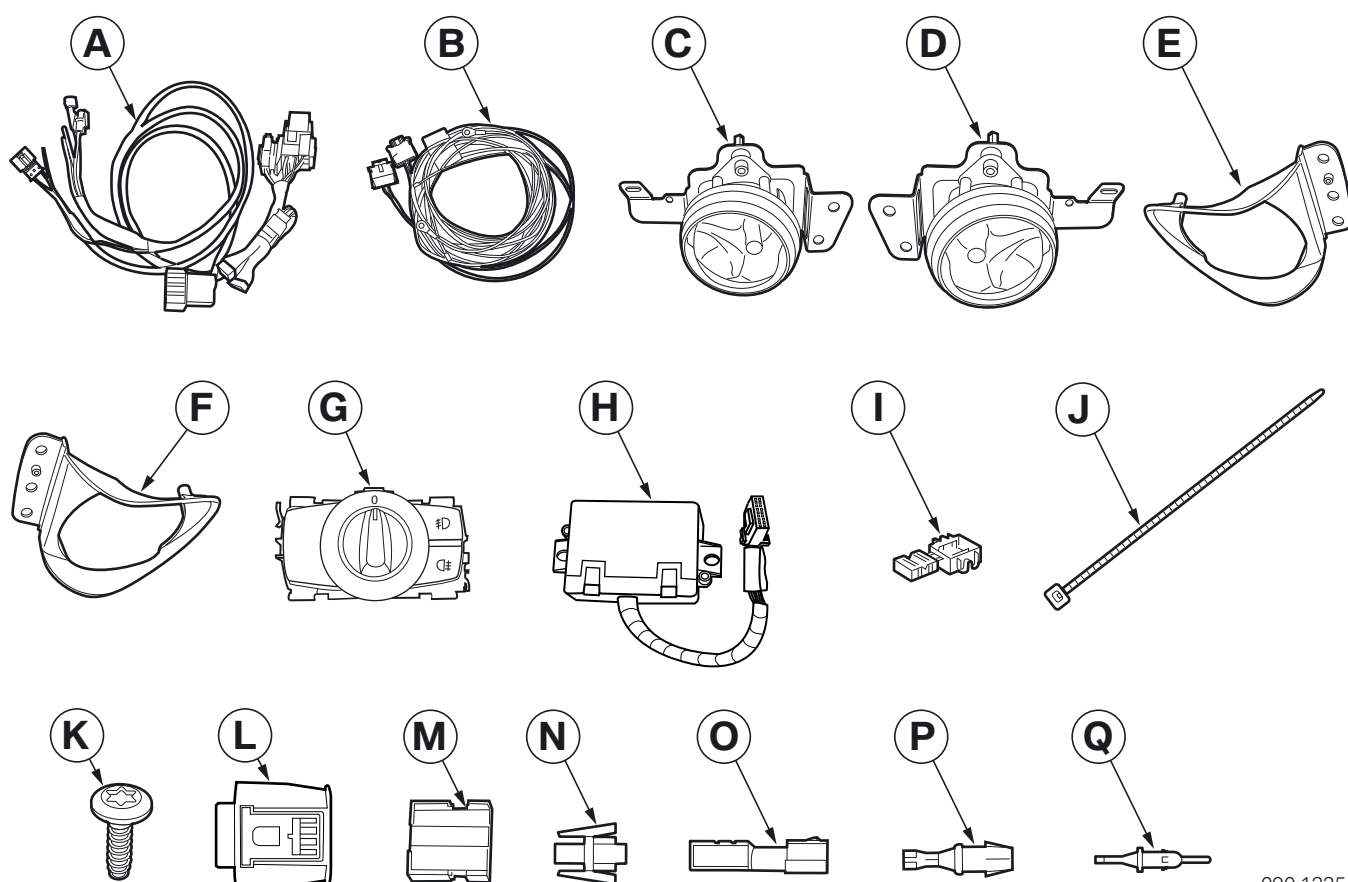
Special tools required

00 9 317 Trim wedge

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1. Parts list



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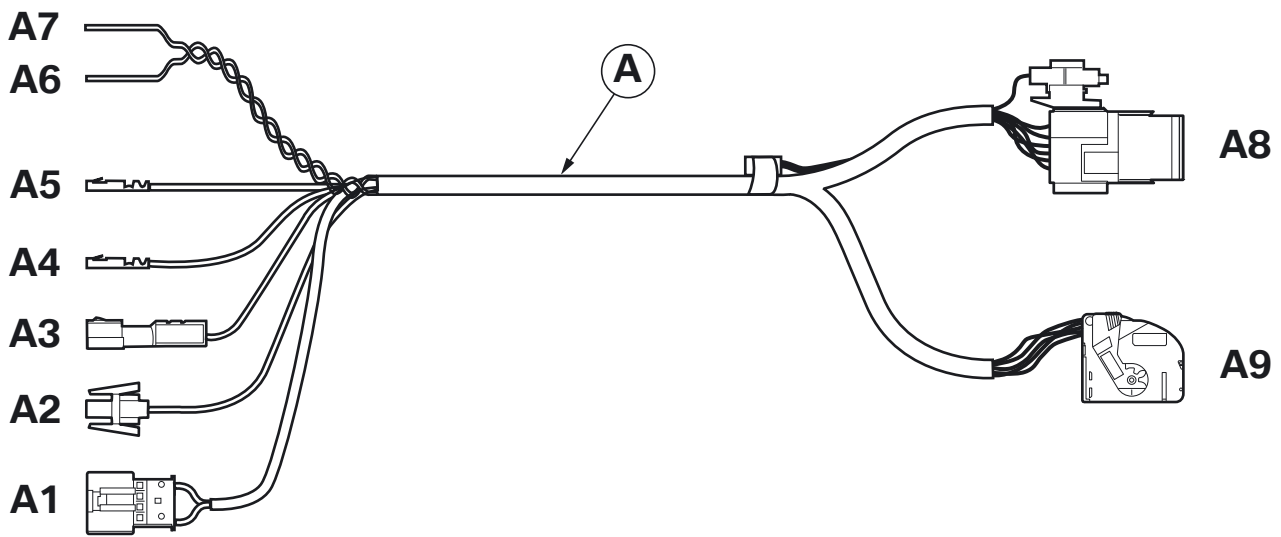
Legend

- A** Cornering light cable kit
- B** Fog lights cable kit (cars without SA 520 only)
- C** Fog light, right
- D** Fog light, left
- E** Fog light cover right
- F** Fog light cover left
- G** Light control unit (not included in the retrofit kit, for cars without SA 520 only)
- H** Universal Interface
- I** Miniature connector (2x)
- J** Cable ties (8x)
- K** Torx screw (2x)
- L** Socket casing 2-pin GR
- M** Socket casing 4-pin SW
- N** Socket casing 1-pin SW
- O** Plug casing 1-pin SW
- P** Socket contact
- Q** Plug contact

2. Preparatory work

	ISTA no.
Conduct a brief test	---
Disconnect negative pole of battery	12 00 ...
The following components must be removed first of all	
Front wheel, left and right	36 10 300
Front wheel arch cover, left and right	51 71 038
Fog lights left and right, retain screws, are required to install the fog lights C and D	63 17 060
Pedal trim	51 45 185
Light control unit (cars without SA 520 only)	61 31 037
Storage compartment below light switch	---
Footwell module	61 35 115

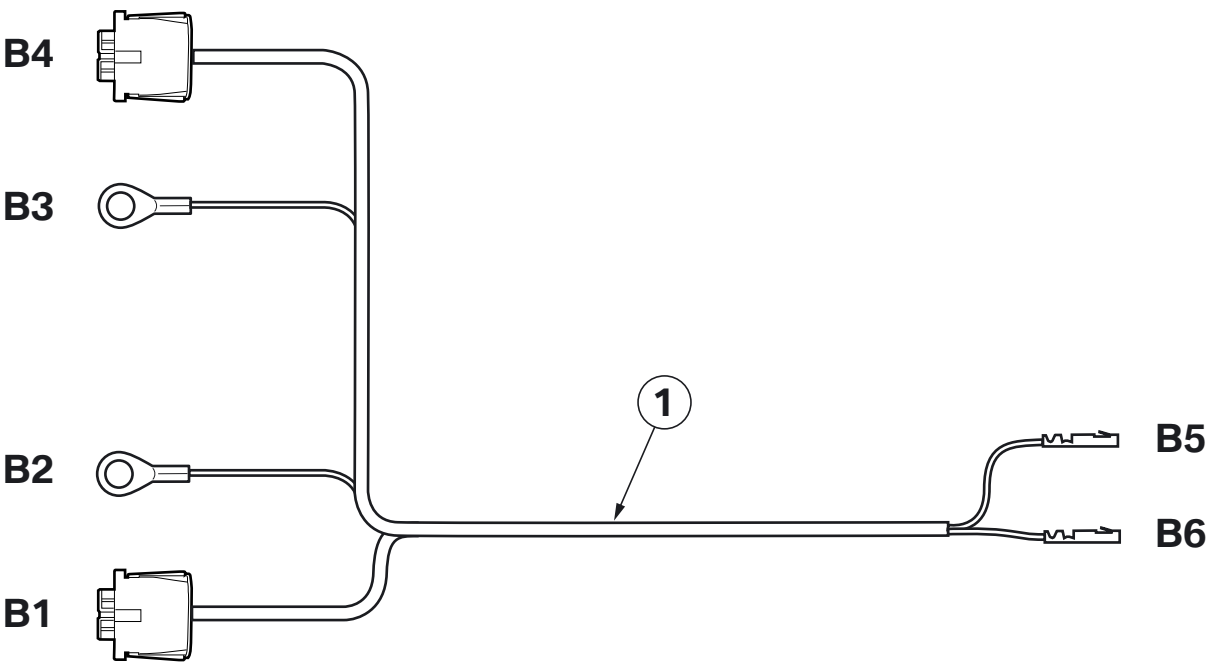
3. Wiring harnesses connection diagram for cornering light



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Branch/ Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/ Slot
A	Cornering light cable kit	---	---	---	---
A1	SW 4-pin plug casing	---	---	To socket casing M	---
A2	SW 1-pin socket casing	---	---	On socket casing O	---
A3	SW 1-pin plug casing	---	---	To socket casing N	---
A4	Socket contact	Terminal 30	RT 4.0 mm ²	To footwell module SW 51-pin plug	X14261 PIN 1
A5	Socket contact	Terminal 31	BR 4.0 mm ²	To footwell module SW 51-pin plug	X14261 PIN 33
A6	Cable open	K-KAN_L	GN 0.35 mm ²	With miniature connector I on GN cable from footwell module	X14260 PIN 45
A7	Cable open	K-KAN_H	OR/GN 0.35 mm ²	With miniature connector I on OR/GN cable from footwell module	X14260 PIN 46
A8	Relay holder with fuse	---	---	With cable tie J to Universal Interface H	---
A9	BL 18-pin socket casing	---	---	On Universal Interface H	---

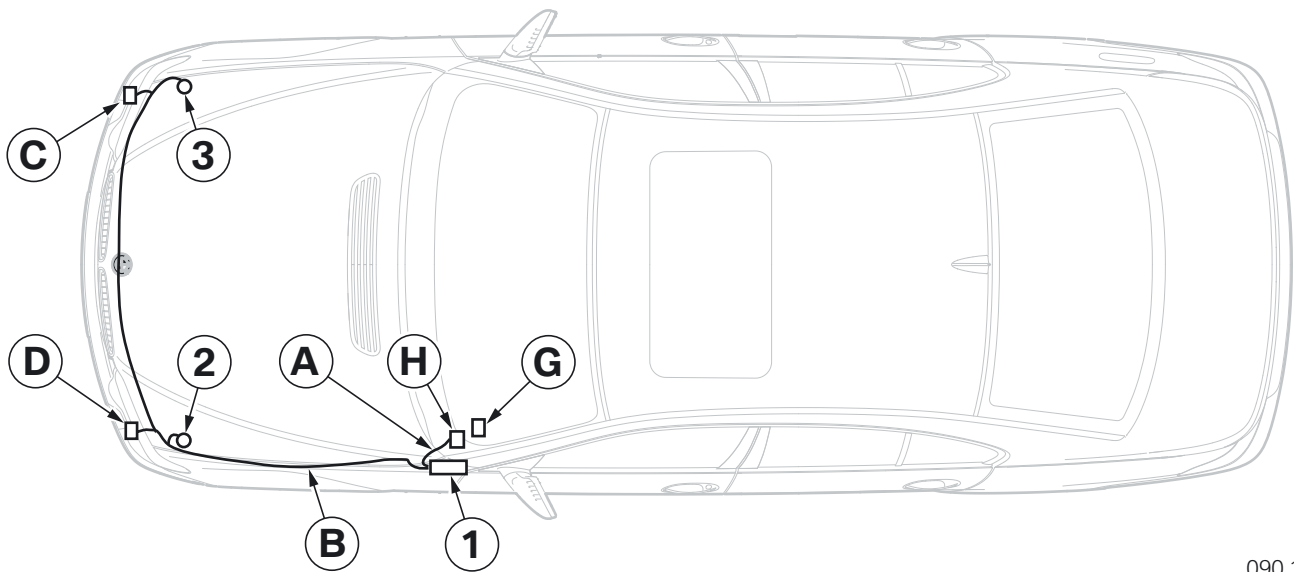
4. Wiring harnesses connection diagram for fog lights (cars without SA 520 only)



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Branch/ Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/ Slot
B	Fog light wiring harness	---	---	---	---
B1	SW 2-pin socket casing	---	---	On left headlight D	---
B2	Eyelet	Terminal 31	BR 1.5 mm²	Earth bolt on joint connector behind left headlight	X165
B3	Eyelet	Terminal 31	BR 1.5 mm²	Earth bolt on joint connector behind right headlight	X166
B4	SW 2-pin socket casing	---	---	On right headlight C	---
B5	Socket contact	55V	GE 1.5 mm²	In socket casing M	PIN 1
B6	Socket contact	55V	GE/BR 1.5 mm²	In socket casing M	PIN 2

5. Installation and cabling diagram LHD cars

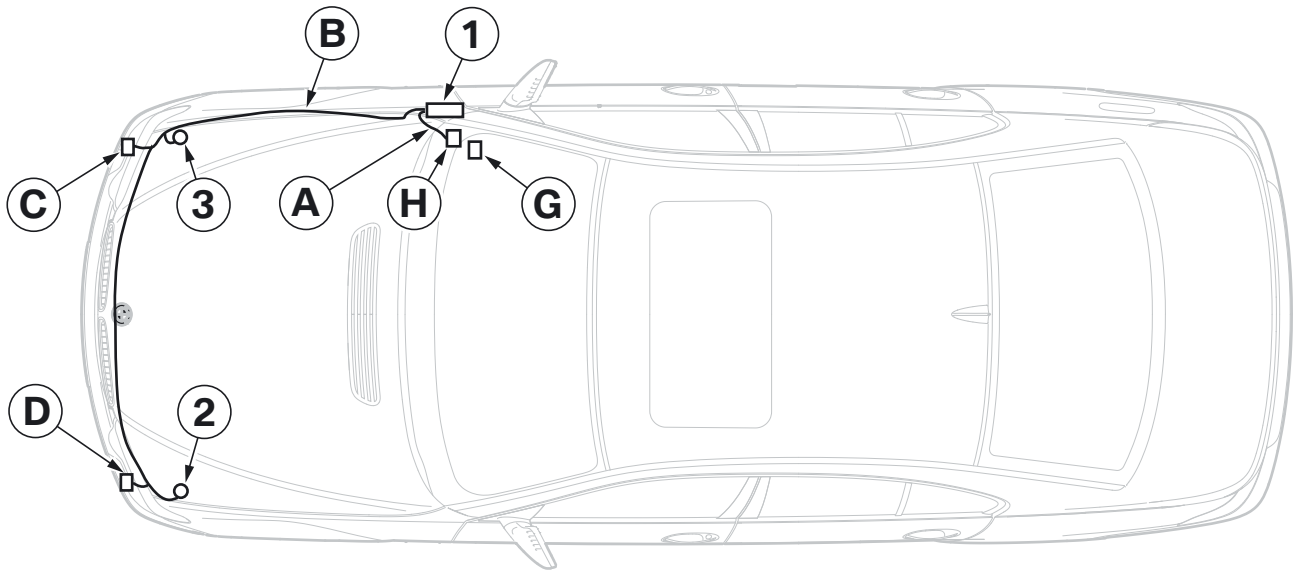


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Legend

- A** Cornering light cable kit
- B** Fog light cable kit, for cars without SA 520 only
- C** Fog light, right
- D** Fog light, left
- G** Light control unit, cars without SA 520 only
- H** Universal Interface
- 1** footwell module
- 2** Earth joint connector **X165**
- 3** Earth joint connector **X166**

6. Installation and cabling diagram RHD cars

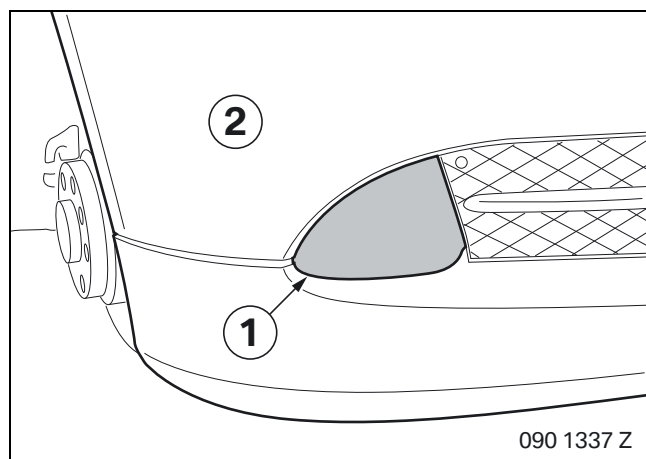


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Legend

- A** Cornering light cable kit
 - B** Fog light cable kit, for cars without SA 520 only
 - C** Fog light, right
 - D** Fog light, left
 - G** Light control unit, cars without SA 520 only
 - H** Universal Interface
-
- 1** footwell module
 - 2** Earth joint connector **X165**
 - 3** Earth joint connector **X166**

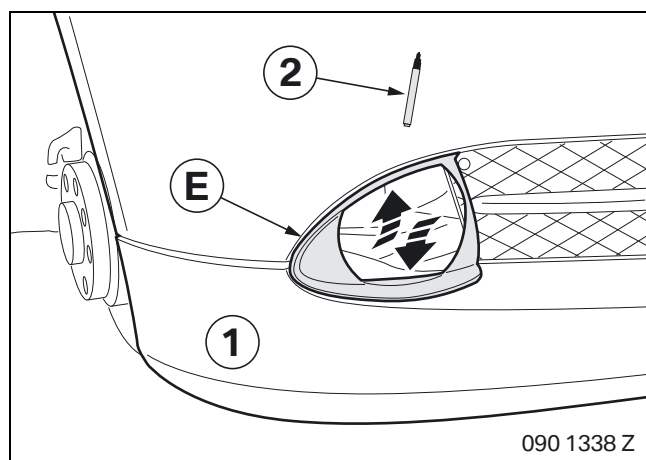
7. To install the cornering light



Cars without SA 520 only

 Retain screws, are required to install the fog light holders **C** and **D**. 

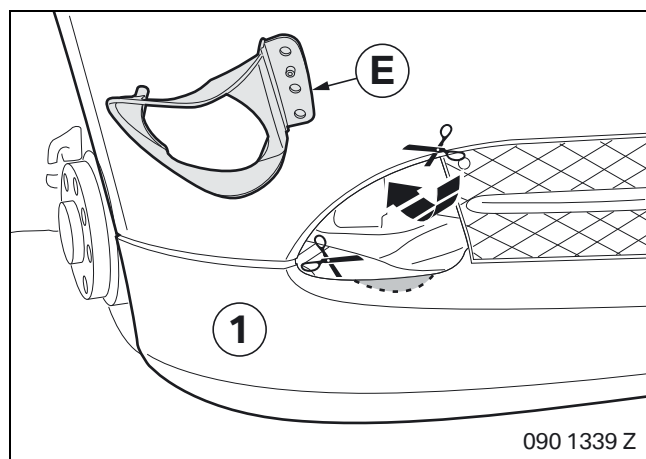
Unscrew the fog light cover (1) from the bumper trim (2).



All cars

Insert the fog light cover **E**.

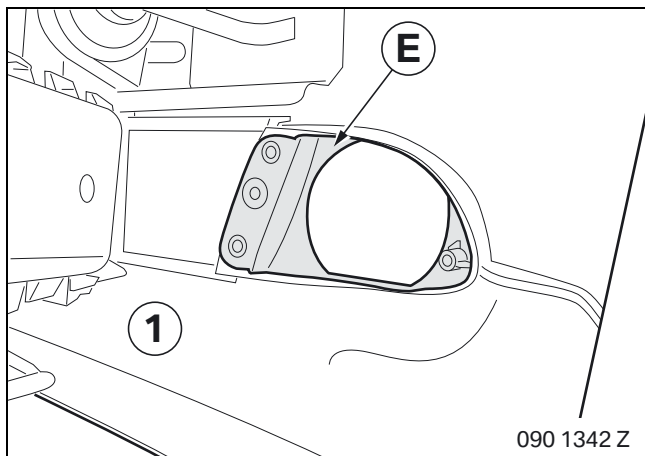
Using a suitable pencil (2), trace the outline of the fog light cover **E** on the bumper trim (1) top and bottom.



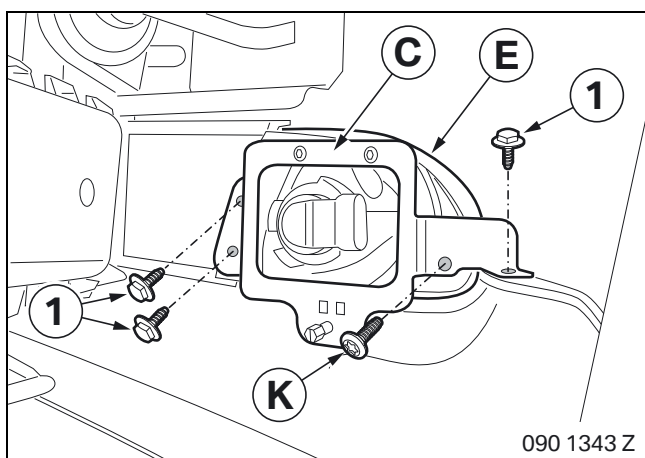
Remove the fog light cover **E**.

Using a suitable tool, cut out the marked spot in the bumper trim (1) top and bottom.

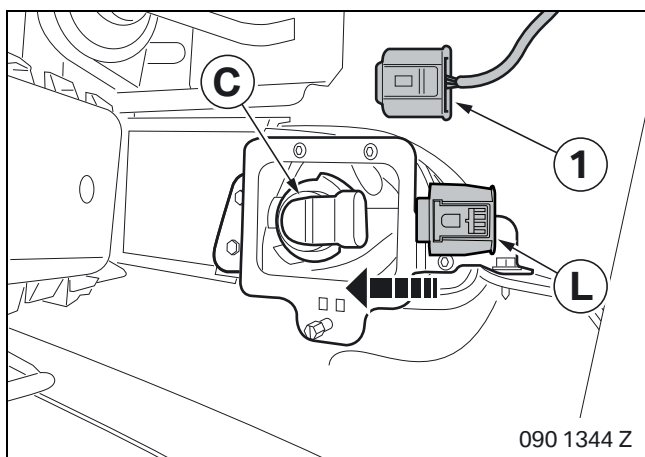
7. To install the cornering light



Insert the fog light cover **E** in the bumper trim **1**.

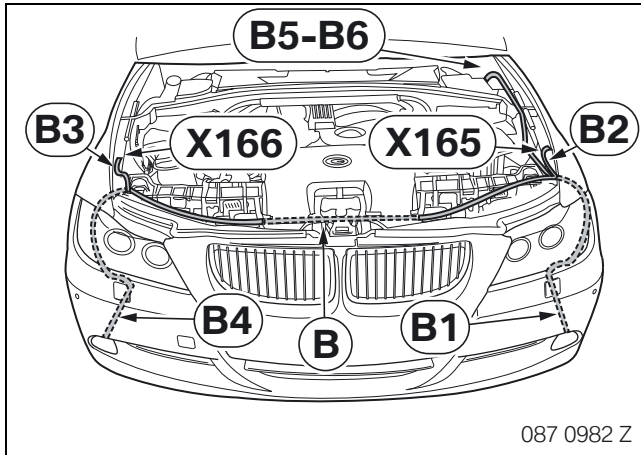


Secure the fog light **C** using Torx screw **K** to the fog light cover **E** and use self-tapping screws **1** to secure it to the bumper.



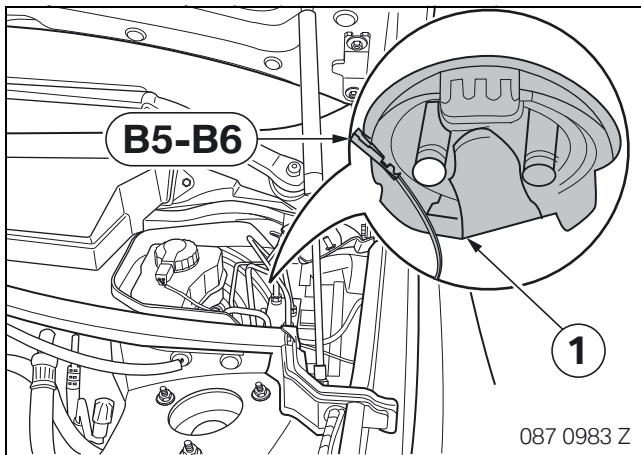
Disconnect the cables from the plug **1** and connect them in the same configuration to the socket casing **L**. Connect socket casing **L** to fog light **C**.

8. To install the cable kit for fog lights (cars without SA 520 only)

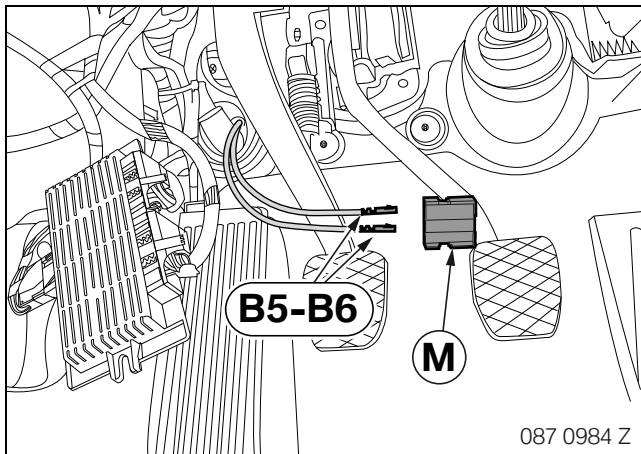


Route fog light cable kit **B** along the original wiring harness as follows:

- Branches **B1** and **B4** to the fog lights
- Branch **B3** to the earth bolt of joint connector **X166** and screw into place there
- Branch **B2** to the earth bolt of joint connector **X165** and screw into place there
- Branches **B5** and **B6** to the left bulkhead



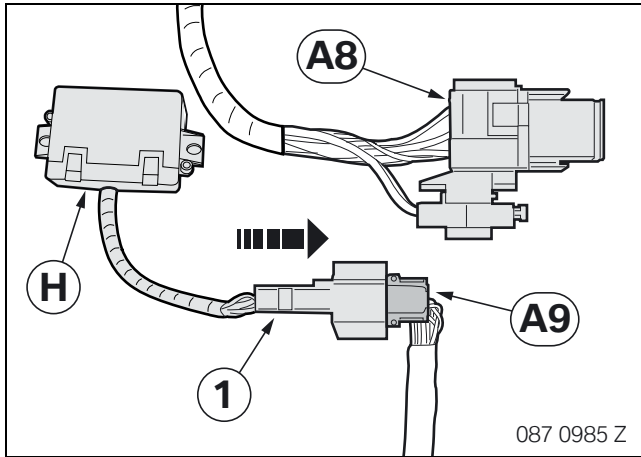
Route branches **B5** and **B6** through grommet (1) into the interior.



Pin branch **B5**, GE cable, in PIN 1 of socket casing **M**.

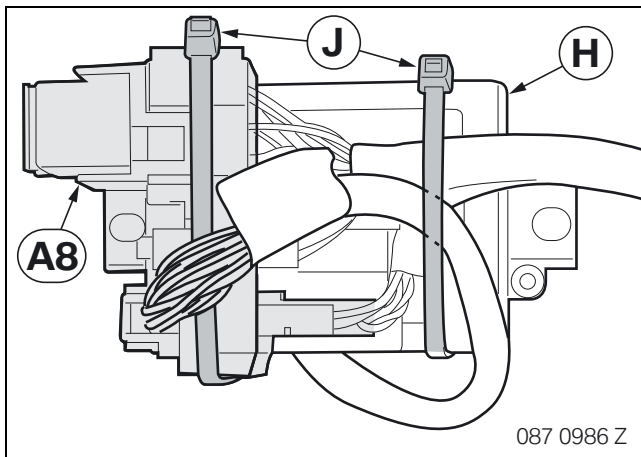
Pin branch **B6**, GE/BR cable, in PIN 4 of socket casing **M**.

9. To install cable kit for cornering light

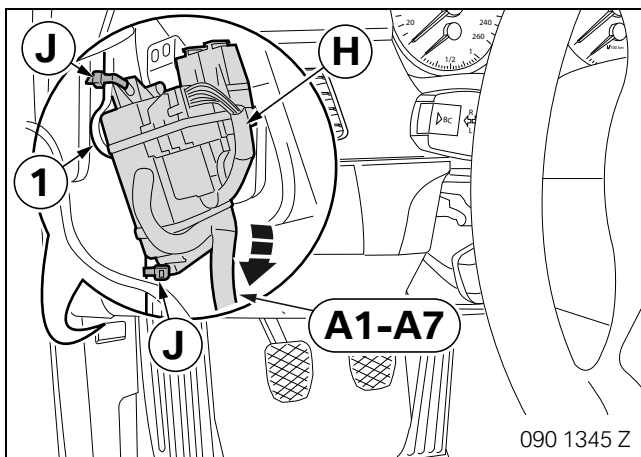


Connect branch **A9**, BL 18-pin socket casing, to the plug (1) of Universal Interface **H**.

Clip the plug (1) of Universal Interface **H** to branch **A8**.

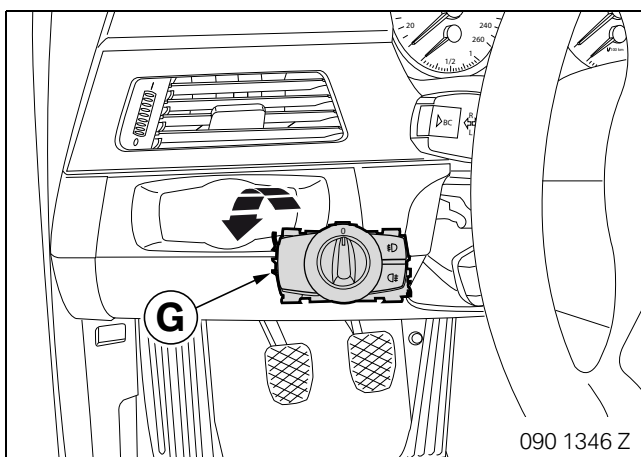


Secure branch **A8**, relay holder with fuse, as shown using cable ties **J** to Universal Interface **H**.



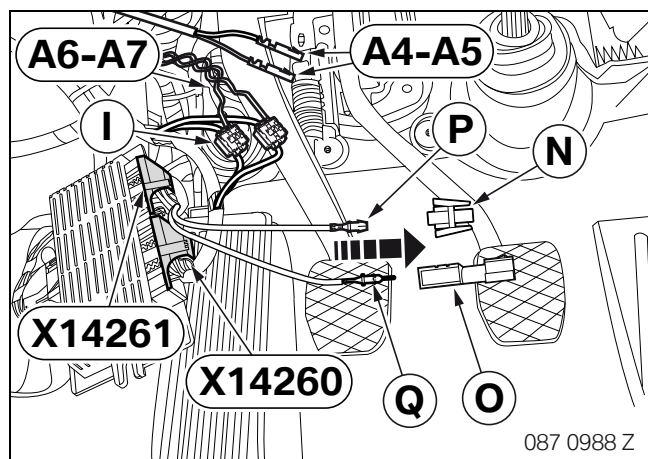
Secure Universal Interface **H** using cable ties **J** to the instrument panel support (1).

Route branches **A1–A7** to the footwell module.



Cars without SA 520 only
Install the light control unit **G**.

9. To install cable kit for cornering light



All cars

Unpin and separate socket contact from plug **X14261**, 51-pin. SW, PIN 1. Crimp socket contact **P** and pin into socket casing **N**.

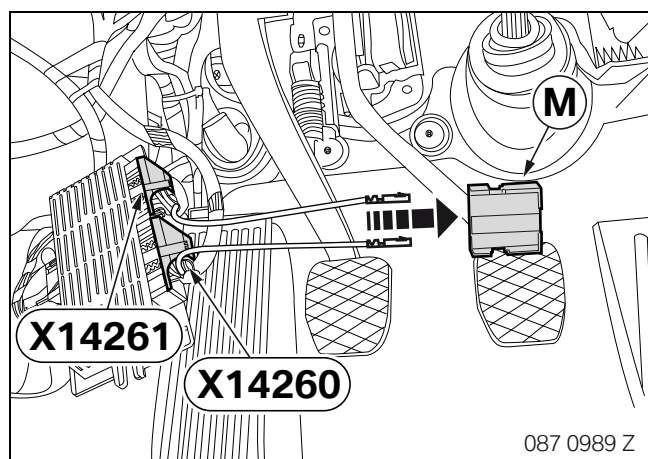
Pin branch **A4** to PIN 1.

Unpin and separate socket contact from plug **X14261**, 51-pin. SW, PIN 33. Crimp pin contact **Q** and pin into pin casing **O**.

Pin branch **A5** to PIN 33.

Use miniature connector **I** to connect branch **A6**, GN cable, to the GN cable from plug **X14260**, PIN 45.

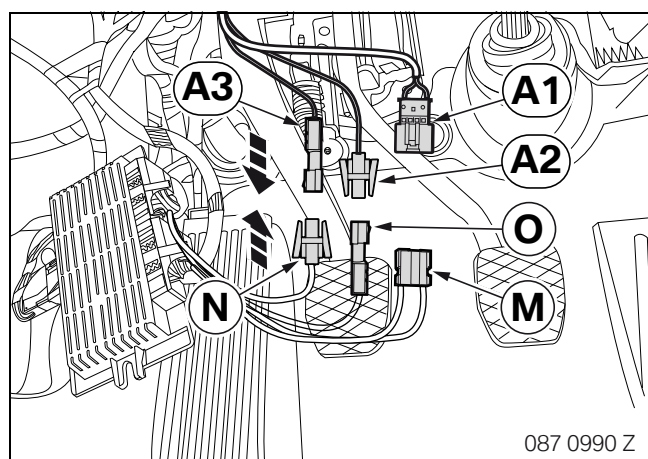
Use miniature connector **I** to connect branch **A7**, OR/GN cable, to the OR/GN cable from plug **X14260**, PIN 46.



Cars with SA 520 only

Unpin socket contact, GE/BR cable, from plug **X14261**, 51-pin. SW, PIN 37 and pin into socket casing **M**, PIN 1.

Unpin socket contact, GE/BR cable, from plug **X14260**, 51-pin. SW, PIN 3 and pin into socket casing **M**, PIN 4.



All cars

Connect branch **A1** to socket casing **M**.

Connect branch **A2** to pin casing **O**.

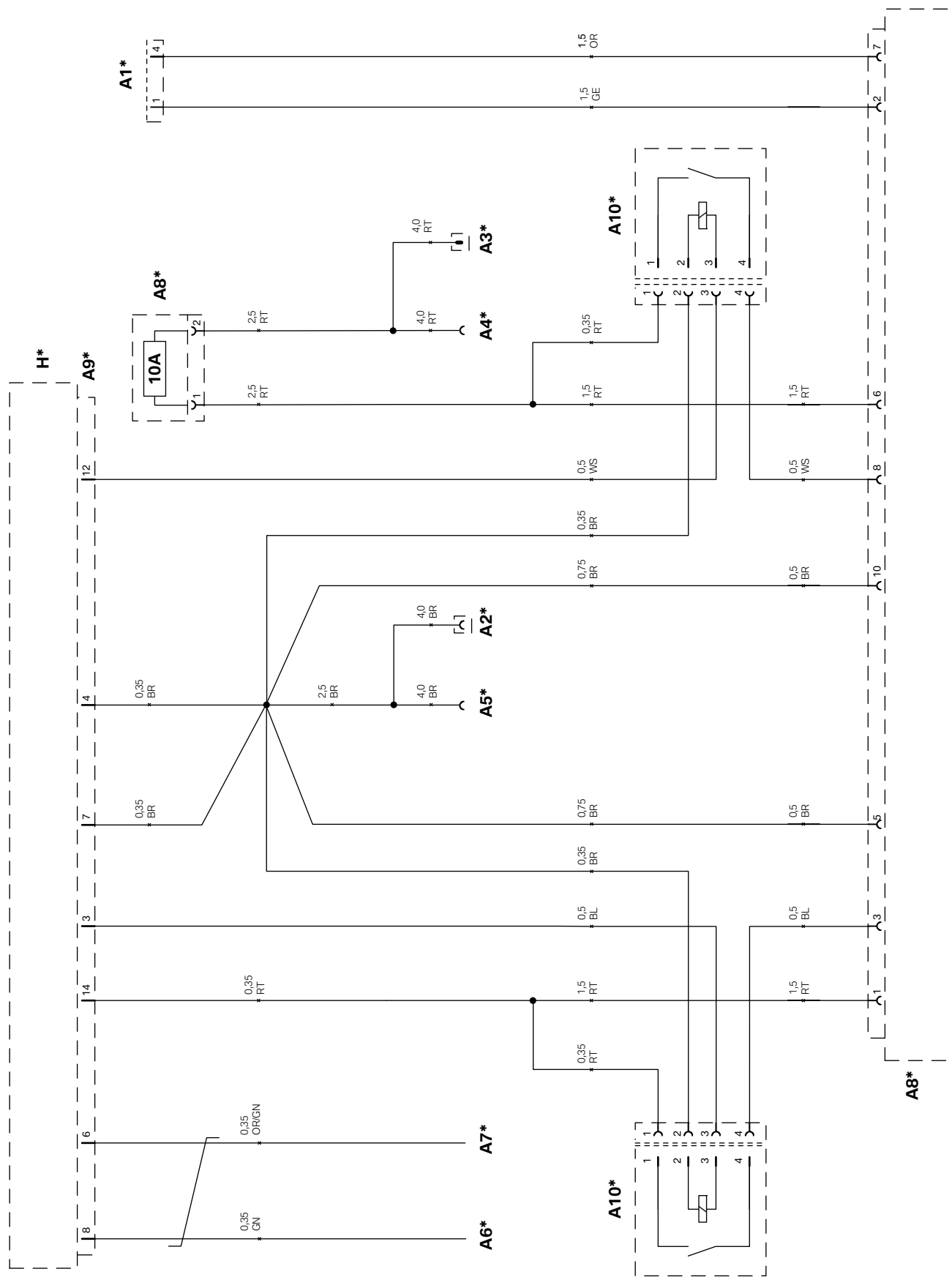
Connect branch **A3** to socket casing **N**.

10. Concluding work and coding

This retrofit system does not require coding.

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

11. Circuit diagram



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11. Circuit diagram

Legend

A1*	SW 4-pin plug casing
A2*	SW 1-pin socket casing
A3*	SW 1-pin plug casing
A4*	Socket contact
A5*	Socket contact
A6*	Open cable, K-KAN_L
A7*	Open cable, K-KAN_H
A8*	Socket casing 10+2-pin SW, relay holder with fuse
A9*	Socket casing 18-pin BL on USB interface H*
A10*	Miniature relay

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
GN	Green
GR	Grey
RT	Red
OR	Orange
SW	Black
WS	White