Parts and Accessories
Installation Instructions

Xenon Light Retrofit with Automatic Headlight Adjustment Control
BMW Z4 (E85)

Installation time

Approx. 5 hours, but this may vary depending on the condition of the car and the equipment in it.

Important information

Only for use in the BMW dealer organisation.

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

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

Use cable ties when routing cables. Tie back any excess lengths.

Subject to technical modifications.

This retrofit system may only be operated in ECE countries in conjunction with a headlight cleaning system.

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.

Target group

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.

Retrofit kit No.   63 12 0 151 691

See EPC for other retrofit kit part numbers.

Special tools required

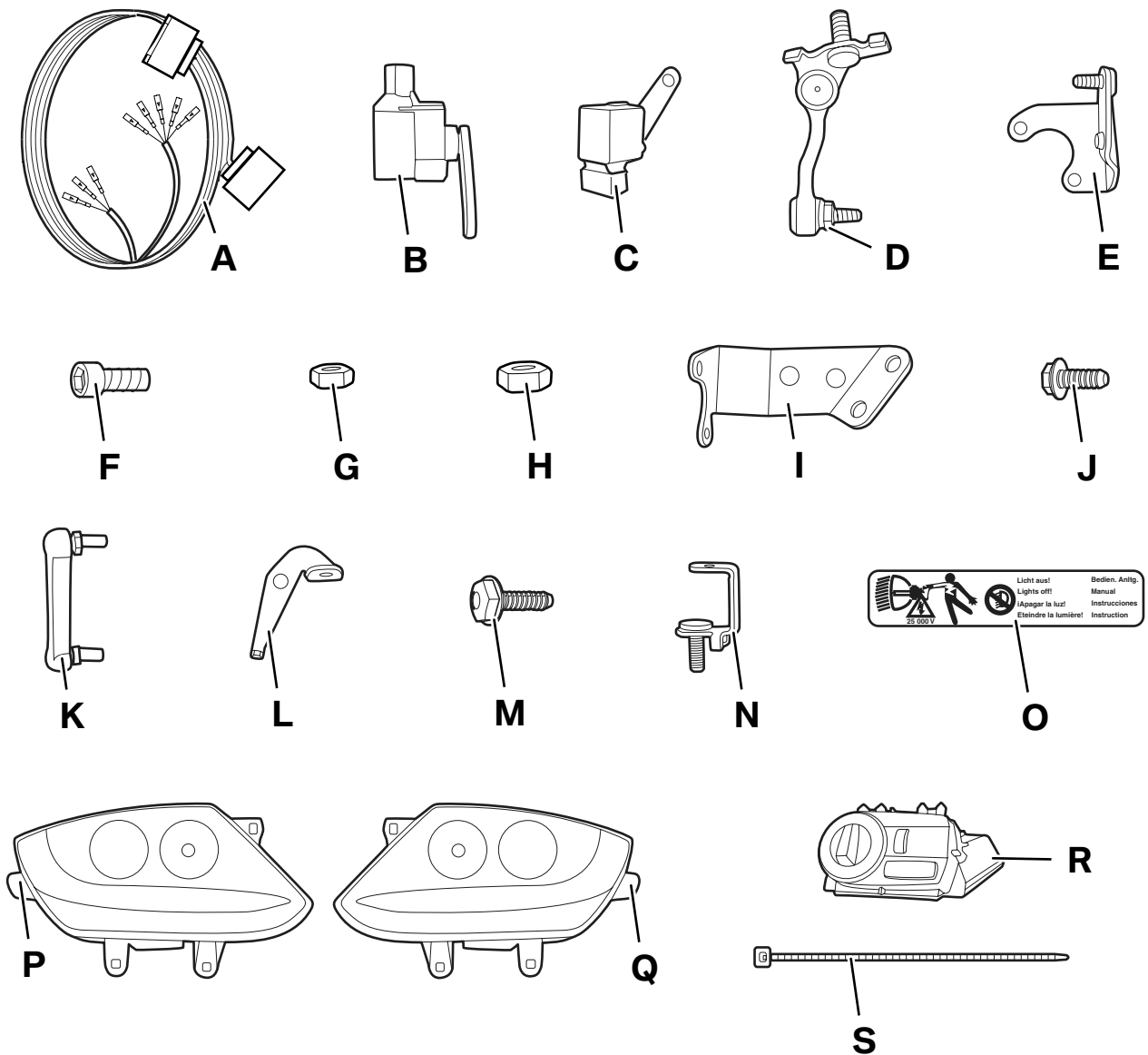00 9 317 Trim wedge
00 9 321 Folding leg
00 9 323 Cleaning wedge

Contents

1. Preparations

	TIS instruction No.
Conduct a brief test	
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all:	
Pedal trim	51 45 185
Side footwell trim on the left A pillar	51 43 070
Glove box with casing, right	51 16 367
Side footwell trim on the right A pillar	51 43 075
Side trim bottom part at rear right	51 43 010
Side trim top part at rear right	51 43 010
Right boot – wheel arch trim	51 47 161
Front bumper trim	51 11 156
Light module	61 31 033
Left headlight	63 12 001
Right headlight	63 12 ...
Wheel on the front right	
Wheel on the rear right	

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2.   Parts kit

085 0007 V

Legend

A   Wiring harness (1x)

B   Level sensor at rear right (1x)

C   Level sensor at front right (1x)

D   Front angle joint (1x)

E   Holder, level sensor at front right (1x)

F   Pan head screw M5x10 (4x)

G   Hexagonal lock nut M6 (6x)

H   Hexagonal lock nut M8 (1x)

I   Holder, level sensor at rear right (1x)

J   Hexagonal screw with washer M6x12 (2x)

K   Control rod (1x)

L   Holder (1x)

M   Hexagonal screw (1x)

N   Extension (1x)

O   Xenon light sticker (2x)

P   Xenon headlight, right (1x)

Q   Xenon headlight, left (1x)

R   Light module (1x) (not included in kit)

S   Cable tie (15x)

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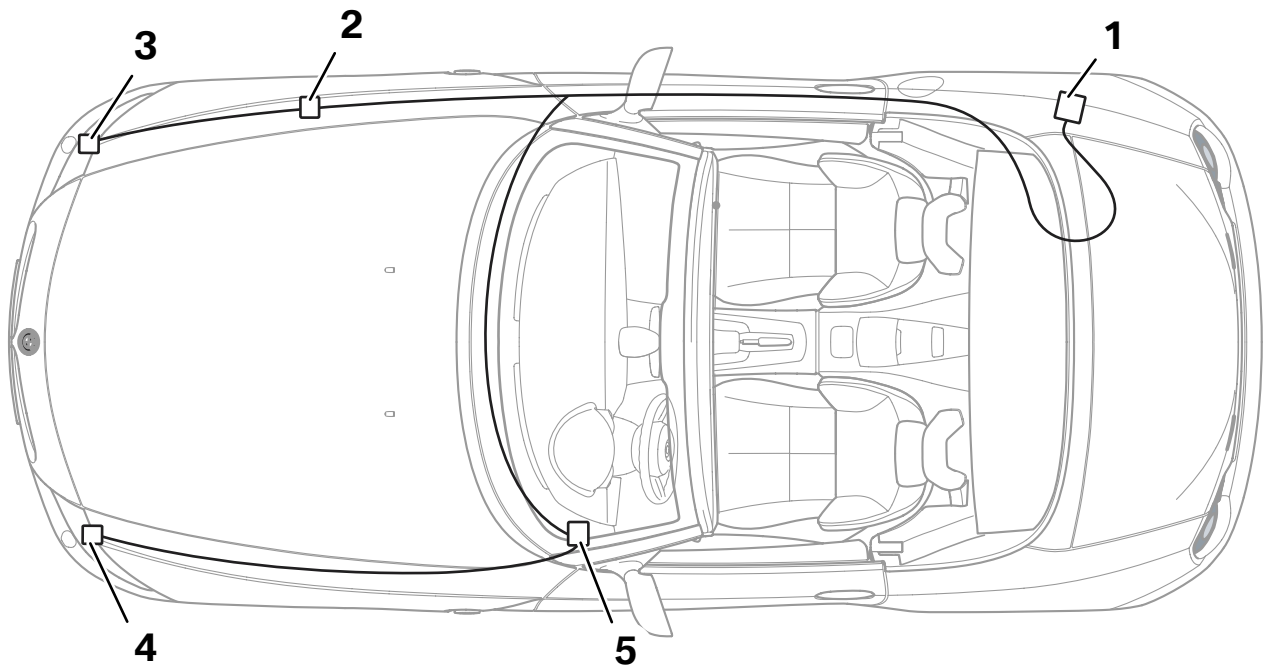Installation Instructions No. 01 29 0 301 697   Issue date: 1.2003

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3. Connection overview
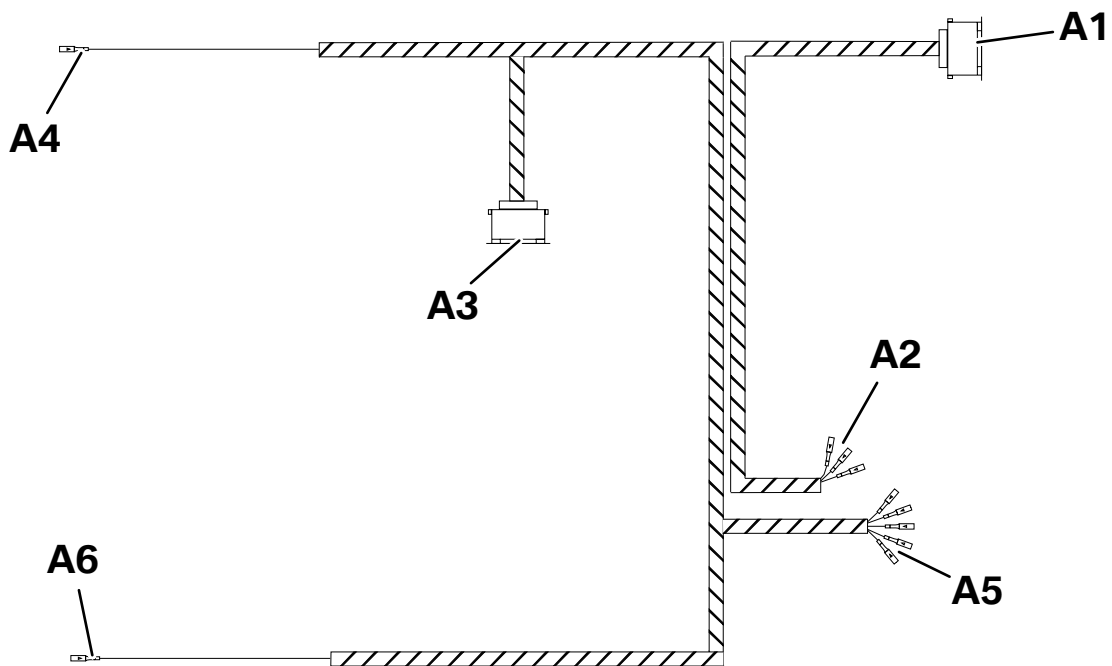
085 0009 V

Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Wiring harness	---	---	---	---
A1	Black 6-pin socket casing	---	SWGN/SWWS/ SWGR/ 0.5 mm^2	To level sensor B64 rear right	X13251 PIN 4/1/5
A2	Socket contacts	---	SWGN/SWWS/ SWGR/ 0.5 mm^2	To black 54-pin socket casing on light module A3	X12 PIN 14/46/26
A3	Black 6-pin socket casing		GRGN/GRWS/ GRBR/ 0.5 mm^2	To level sensor B42 front right	X18032 PIN 4/1/5
A4	Socket contact		SWBL/ 0.5 mm^2	To xenon headlight E148 front right	X19035 PIN 8
A5	Socket contacts	---	GRGN/GRWS/ GRBR/SWBL/SW/ 0.5 mm^2	To black 54-pin socket casing on light module A3	X12 PIN 22/19/23/2/36
A6	Socket contact	---	SW/ 0.5 mm^2	To xenon headlight E147 front left	X19034 PIN 8

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4. Installation and cabling diagram

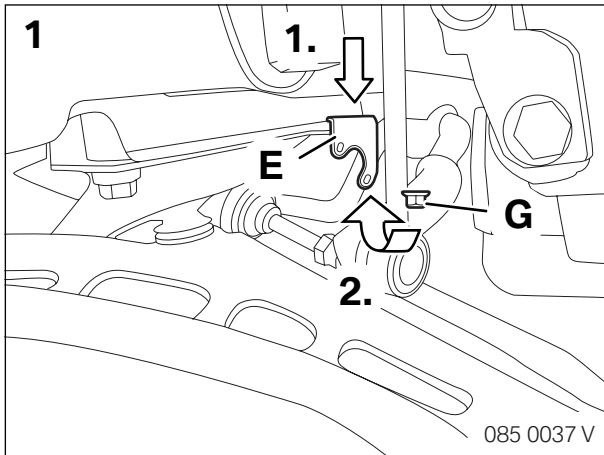085 0008 V

Legend

1	Level sensor rear right
2	Level sensor front right
3	Xenon headlight, right
4	Xenon headlight, left
5	Light module

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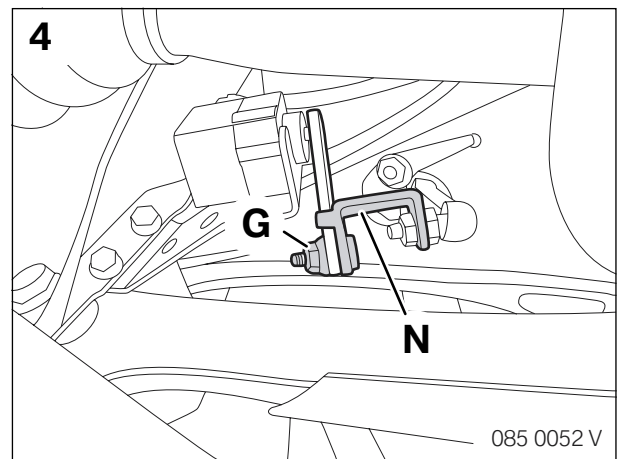
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5. To install the front right level sensor

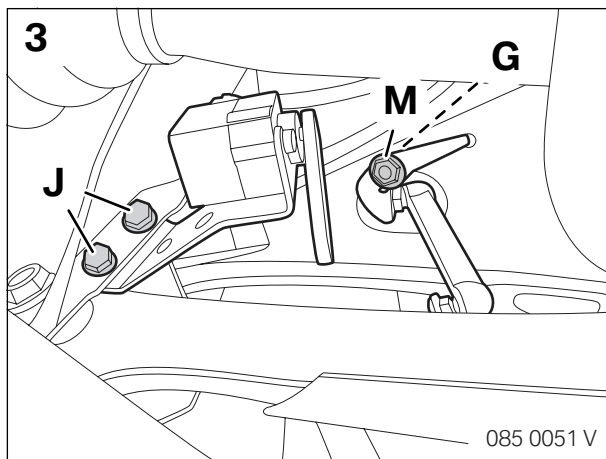▷ Install as shown in the following illustrations. Tighten all screw connections. ◄

1

1.

E

G

2.

085 0037 V

2

1.

C

F

2.

085 0046 V

3

1.

D

2. H

085 0047 V

4

G

E

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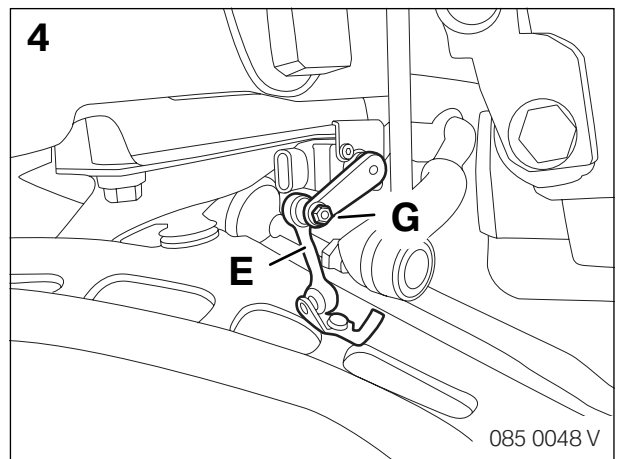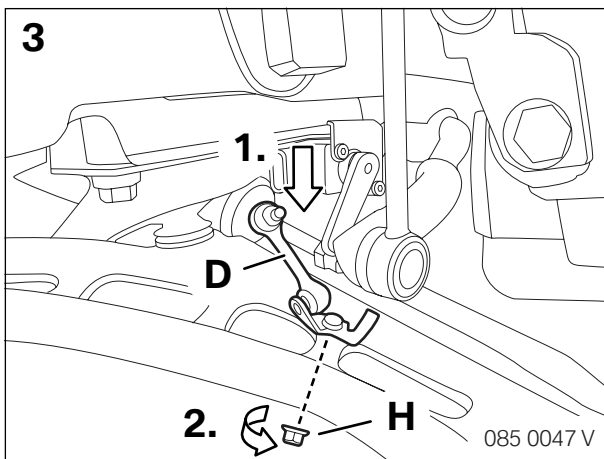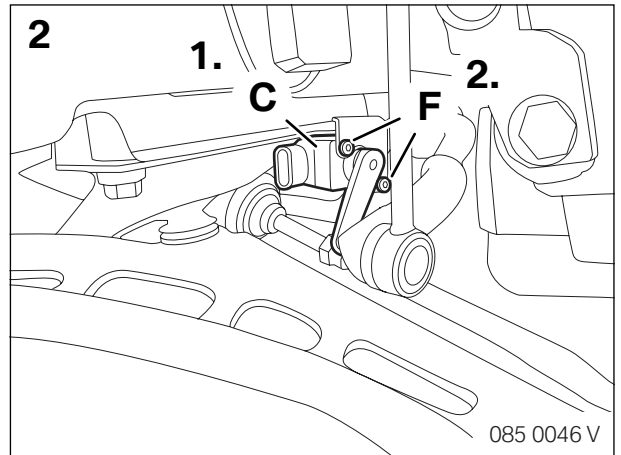
6. To install the rear right level sensor

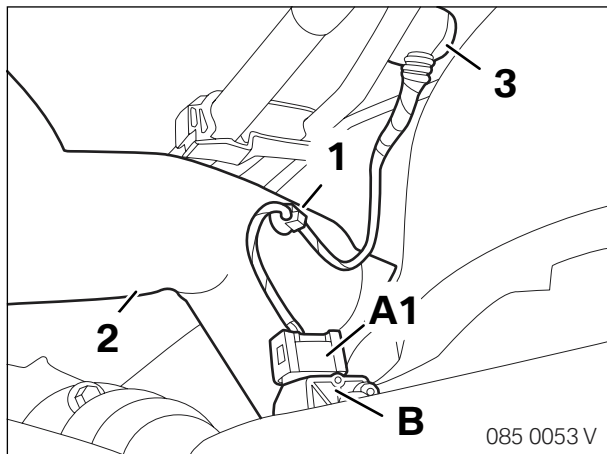▷ Install as shown in the following illustrations. Tighten all screw connections. ◀

1 F F B I 085 0049 V	**2** L G N K 085 0050 V
3 G M J 085 0051 V	**4** G N 085 0052 V

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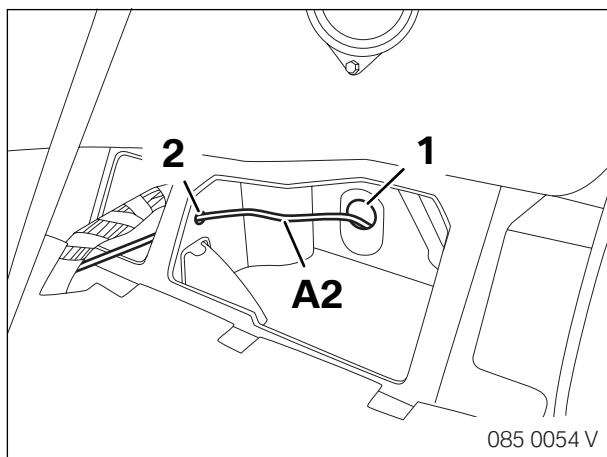
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7.   To install the wiring harness

085 0053 V
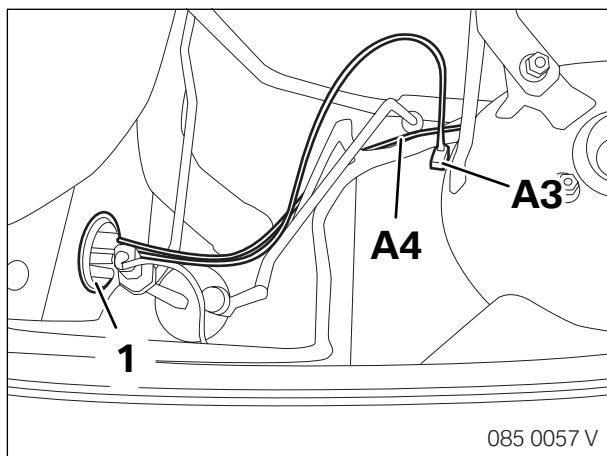
Connect branch **A1** to rear right level sensor **B**.

Insert cable holder (1) into the hole in top transverse control arm (2).

Insert grommet (3) into the boot floor and route the wiring harness into the boot.

085 0054 V

Route branch **A2** from the boot through opening (1) and hole (2) into the interior.

Then route branch **A2** into the driver's footwell.

085 0057 V

Route branch **A4** along the standard wiring harness in the engine compartment on the right to the right headlight.

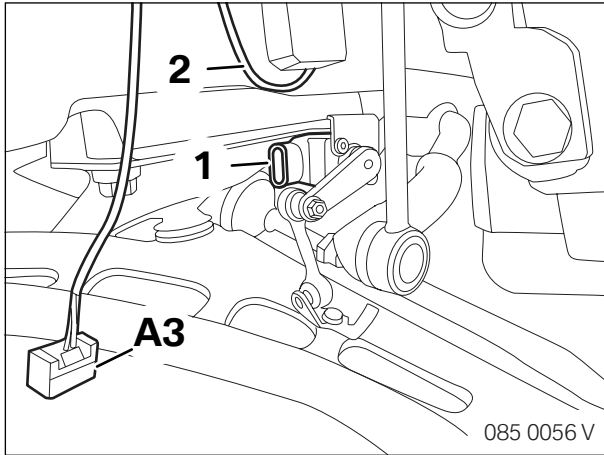Route branches **A5** and **A6** through grommet (1) into the interior.

Then route branch **A3** into the front right wheel arch.

085 0055 V
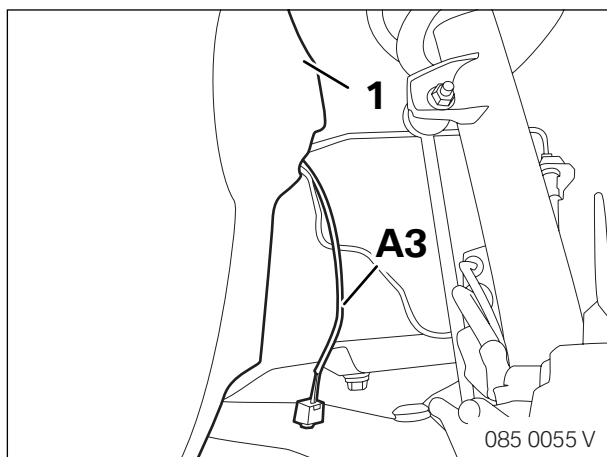
Route branch **A3** from the engine compartment behind plastic lining (1) along the brake line into the front right wheel arch.

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7. To install the wiring harness

Connect branch **A3** to plug (1) of the front right level sensor.

Attach to existing cables (2) with cable ties.

085 0056 V
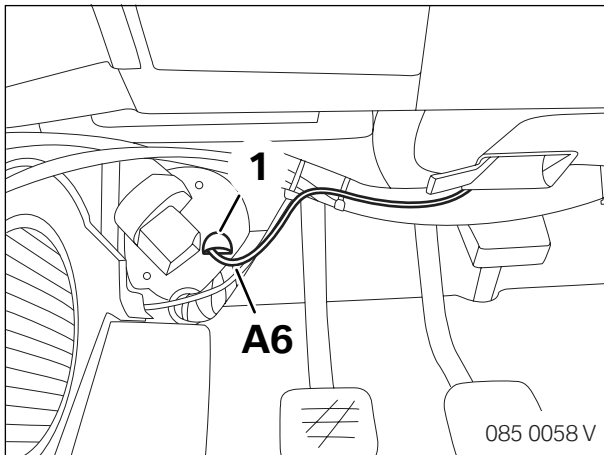
▷ Route branches **A5** and **A6** into the driver's footwell. Then route branch **A5** together with branch **A2** to the light module. ◂

Route branch **A6** through opening (1) in the plastic lining and forwards into the engine compartment.

085 0058 V
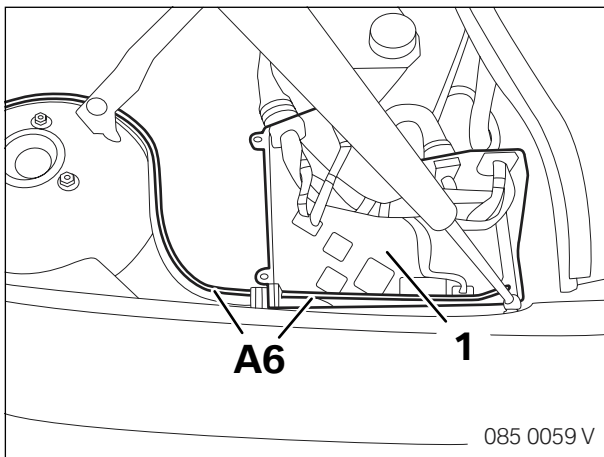
Route branch **A6** through electrics box (1) and further along the standard wiring harness in the engine compartment on the left to the left headlight.

085 0059 V
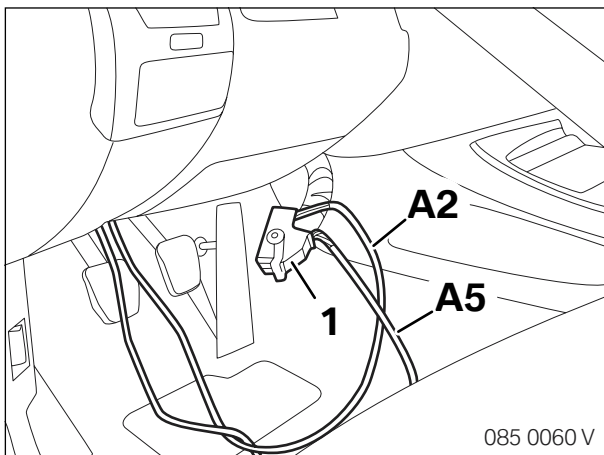
Connect branches **A2** and **A5** into black 54-pin socket casing X12 (1) of the light module as follows:

SWGN to PIN 14
SWWS to PIN 46
SWGR to PIN 26
GRGN to PIN 22
GRWS to PIN 19
GRBR to PIN 23
SWBL to PIN 2
SW to PIN 36

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8. Concluding work and coding

▷ The xenon light retrofit with automatic headlight adjustment control requires coding. ◄

- Connect the battery, connect a charger
- Program/code the parking distance control (PDC) retrofit with DISPlus or GT-1 using the CIP application and follow the instructions in the program
- Conduct a function test
- Re-assemble the car
- Stick the xenon light stickers onto the xenon headlights where they are clearly visible

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9. Circuit diagram

A3

X12

22 19 23   14 46 26   36   2

0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5
GRGN GRWS GRBR   SWGN SWWS SWGR   SW   SWBL

X18032   **X13251**   **X19034**   **X19035**

4   1   5   4   1   5   8   8

B42   **B64**   **E147**   **E148**
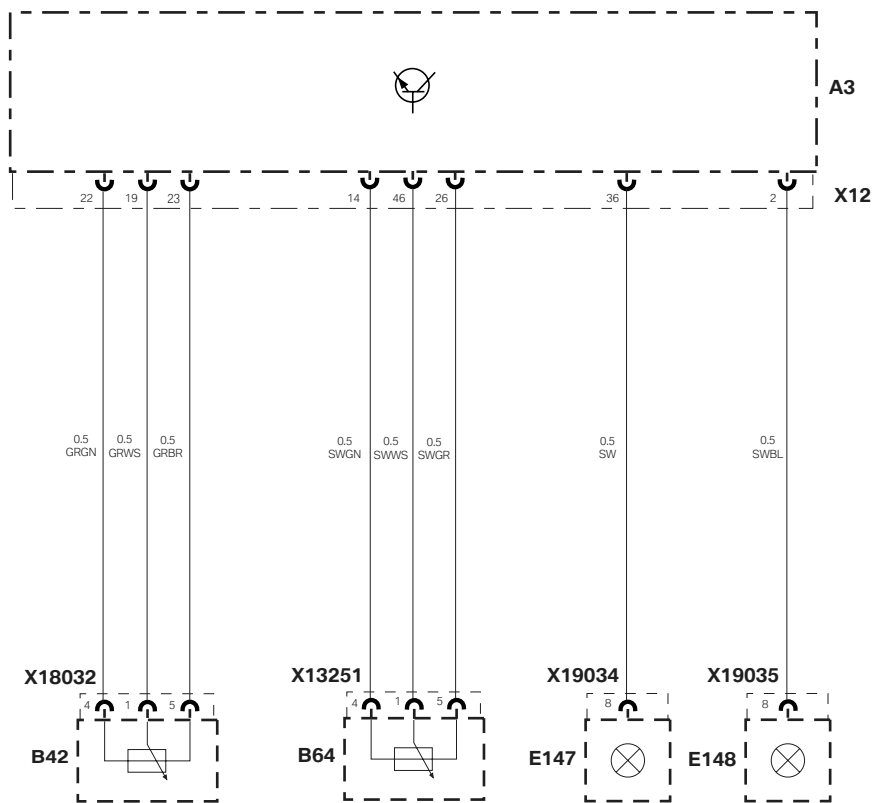
085 0036 V

9. Circuit diagram

Legend

A3   Light module

B42   Level sensor front right
B64   Level sensor rear right

E147   Xenon headlight, left
E148   Xenon headlight, right

X12   Black 54-pin socket casing on light module
X13251   Black 6-pin socket casing on level sensor, rear right
X18032   Black 6-pin socket casing on level sensor, front right
X19034   Black 8-pin socket casing on xenon headlight, left
X19035   Black 8-pin socket casing on xenon headlight, right

Cable colours

GR   grey
GN   green
WS   white
BR   brown
SW   black
BL   blue