

# Original MINI Accessories. Installation Instructions.



## Additional high-beam headlights retrofit

MINI ONE (R55, R56, R57)

MINI COOPER (R55, R56, R57)

MINI COOPER D (R55, R56, R57)

MINI COOPER S (R55, R56, R57)

MINI COOPER S JOHN COOPER WORKS (R55, R56, R57)

MINI COUNTRYMAN ONE (R60)

<b>Retrofit kit No.:</b>	63 12 0 417 669	Additional high-beam headlights retrofit kit, chrome
	63 12 0 420 291	Additional high-beam headlights retrofit kit, black
	63 13 0 422 704	Holder and grille Cooper S
	63 13 0 422 706	Holder and grille Cooper S with Aerodynamics package SZ
	63 13 0 422 707	Holder and grille Cooper chrome
	63 13 0 422 708	Holder and grille Cooper with Aerodynamics package SZ
	63 13 0 427 567	Holder and grille MINI Diesel
	63 13 0 427 568	Holder and grille MINI One
	63 13 0 427 569	Holder and grille Cooper with Aerodynamics package SAZ
	63 13 2 186 303	Holder and grille Countryman One
	63 13 2 186 304	Holder and grille Countryman Cooper
	63 13 2 186 305	Holder and grille Countryman One/Cooper chrome
	63 13 2 186 306	Holder and grille Countryman Cooper S

## Installation time

The installation time is **approx. 1.5 hours**. 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 MINI dealership organisation and by authorised MINI service companies.

In any event the target group for these installation instructions is specialist personnel trained on MINI cars with the appropriate specialist knowledge.

All work must be completed using the latest MINI repair manuals, wiring 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.

## 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.

**Print out the “Customer information for the additional high-beam headlights” section at the end of the installation instructions and give it to the customer.**

Do not archive the hard copy of these installation instructions since daily updates are made via ASAP!

## Installation information

The central radiator grille must be removed and replaced with the new central radiator grille **C** with the cut-out for the holder.

On cars with a radiator grille that has a slatted design, the slats must be converted.

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

Ensure that the cables and/or lines are not kinked or damaged as you install them in the car. Costs arising from this will not be reimbursed by BMW AG.

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

## Ordering instructions

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

- Holder and grille (contains the central radiator grille **C**, left holder **E** and right holder **F**)

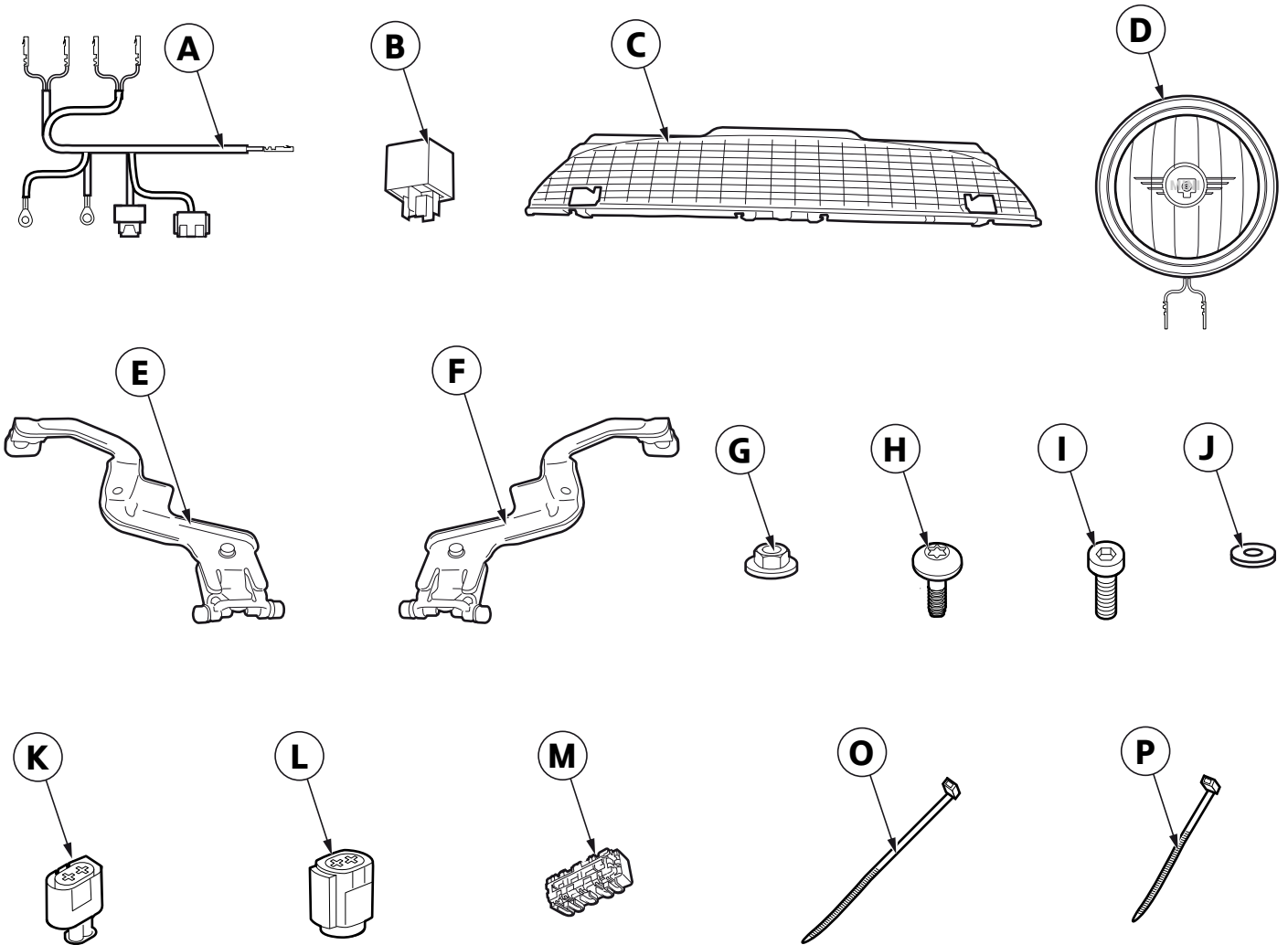
## Special tools required

None

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## 1. Parts list



R56 0094 Z

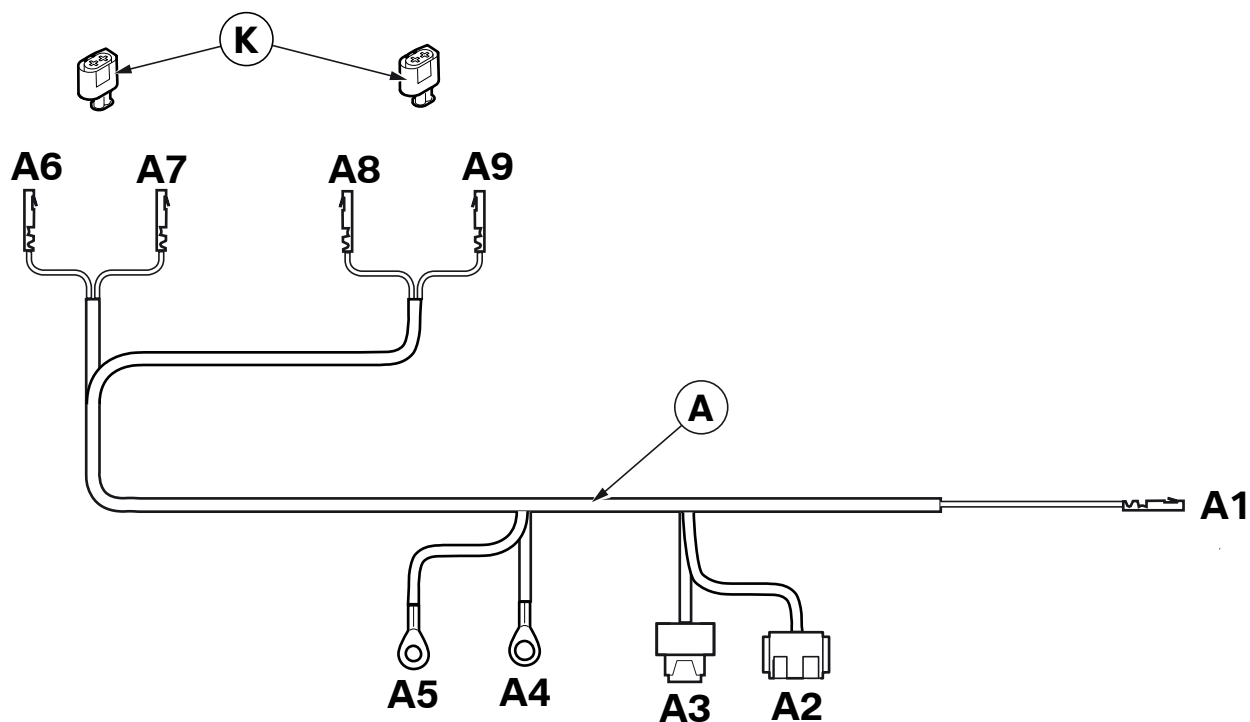
### Legend

- A** Wiring harness
- B** Control unit
- C** Central radiator grille (part of the holder and grille retrofit kit)
- D** Additional high-beam headlights (2 x)
- E** Left holder (part of the holder and grille retrofit kit)
- F** Right holder (part of the holder and grille retrofit kit)
- G** Self-locking hexagon nut M8 (2 x)
- H** Screw M6 (2 x)
- I** Screw M6 (4 x)
- J** Shim M6 (8 x)
- K** SW 2-pin socket casing (2 x)
- L** SW 2-pin pin housing (2 x)
- M** 5-way miniature connector
- O** Cable tie 445 x 4.8 mm (2 x)
- P** Cable tie 200 x 3.6 mm (25 x)

## 2. Preparatory work

	<b>ISTA No.</b>
Conduct a brief test	---
Disconnect the negative pole of the battery	61 20 900
<b>The following components must be removed first of all</b>	
Central radiator grille (no longer required)	51 13 000
Panel on central radiator grille (convert)	51 13 003
Bottom left dashboard trim	51 45 180
Front left door sill strip	51 47 000
Left cowl panel cover	51 13 123
Right cowl panel cover	51 13 124

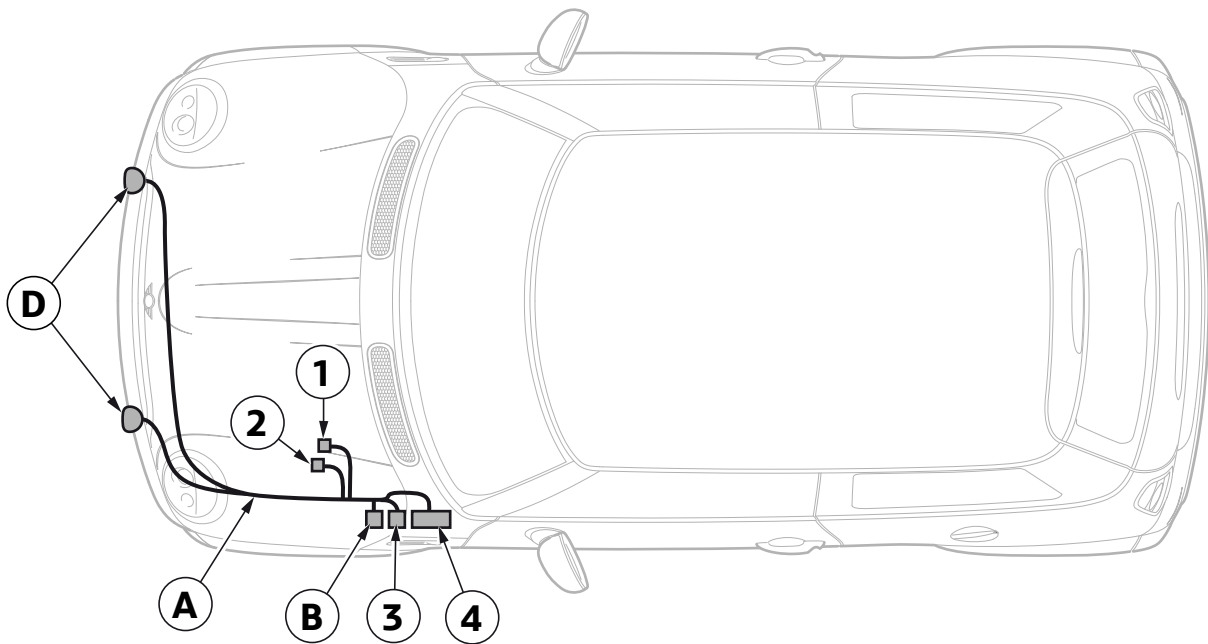
### 3. Connection diagram



R56 0096 Z

Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/ Slot
A	Wiring harness	---	---	---	---
A1	Socket contact	Terminal 56a	GE/BL 0.75 mm <sup>2</sup>	<b>Cars without xenon light only</b> With miniature connector <b>M</b> to the GE/BL cable from the footwell module <b>Cars with xenon light only</b> Connect to the footwell module or with miniature connector <b>M</b> to the GE/RT cable from the footwell module	X14260 PIN 4  X14260 PIN 41
A2	SW 9-pin relay base	---	---	To control unit <b>B</b>	---
A3	Fuse holder	---	---	---	---
A4	Eyelet M6	Terminal 31	BR	Terminal 31 support point under the engine compartment fuse holder	X165
A5	Ring eyelet M8	Terminal 30	RT/BL 2.5 mm <sup>2</sup>	Terminal 30 support point in the engine compartment fuse holder	X2
A6	Socket contact	FSL	BL/RT 1.0 mm <sup>2</sup>	With socket casing <b>K</b> to pin housing <b>L</b> on the left-hand high-beam headlight <b>D</b>	PIN 1
A7	Socket contact	Terminal 31L	BR 1.0 mm <sup>2</sup>	With socket casing <b>K</b> to pin housing <b>L</b> on the left-hand high-beam headlight <b>D</b>	PIN 2
A8	Socket contact	FSR	BL/WS 1.0 mm <sup>2</sup>	With socket casing <b>K</b> to pin housing <b>L</b> on the right-hand high-beam headlight <b>D</b>	PIN 1
A9	Socket contact	Terminal 31L	BR 1.0 mm <sup>2</sup>	With socket casing <b>K</b> to pin housing <b>L</b> on the right-hand high-beam headlight <b>D</b>	PIN 2

## 4. Installation and cabling diagram

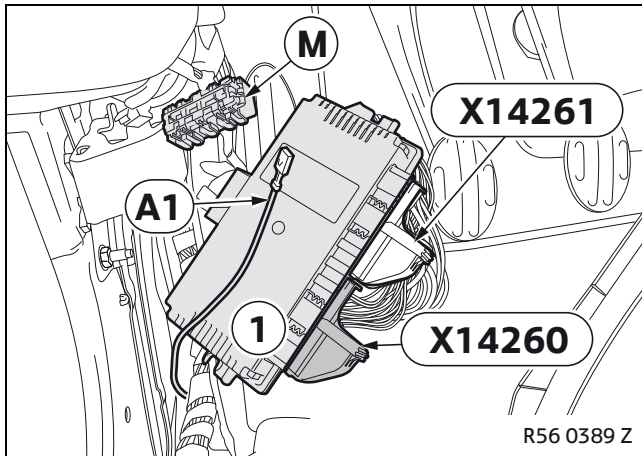


R56 0098 Z

### Legend

- A** Wiring harness
- B** Control unit
- D** Additional high-beam headlights
  
- 1** Terminal 30 pick-up on terminal 30 support point, **X2**
- 2** Terminal 31 pick-up on terminal 31 support point, **X165**
- 3** Fuse holder **A3**
- 4** Footwell module, socket casing **X14260**

## 5. Installing and connecting the wiring harness



Release the footwell module (1) and socket casing **X14260** (SW/GR 51-pin ) (see ISTA No. 61 35 015).

▶ The socket casing of **X14260** and **X14261** are both SW, the inner housing of the **X14260** is grey. ◀

Connect branch **A1** as follows to socket casing **X14260**:

### Cars without xenon light only

Connect branch **A1**, GE/BL cable, using 5-way miniature connector **M** to the GE/BL cable of PIN 4.

### Cars with xenon light only

▶ If PIN 41 is already occupied, connect branch **A1** using 5-way miniature connector **M**. ◀

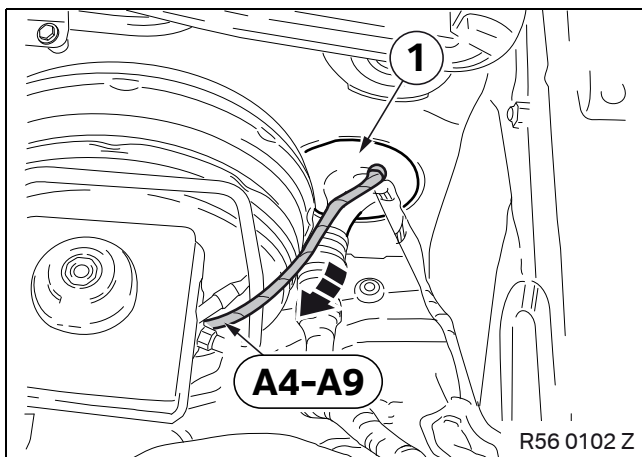
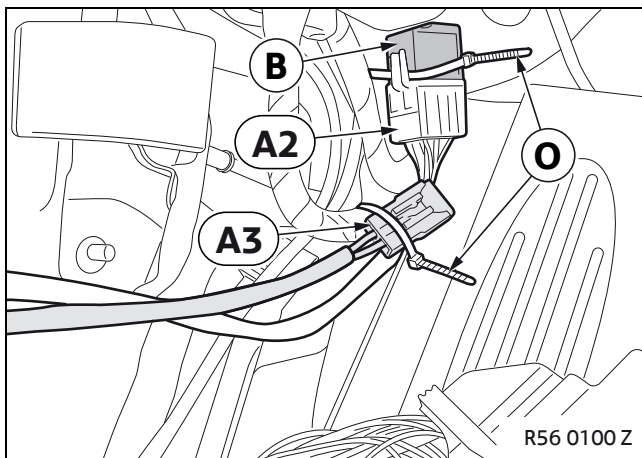
Connect branch **A1**, GE/BL cable, to PIN 41.

### All cars

▶ Failure to observe the instructions regarding ESD (Electrostatic Discharge) protection as per TIS RA 61 35 ... can damage the control unit **B**. ◀

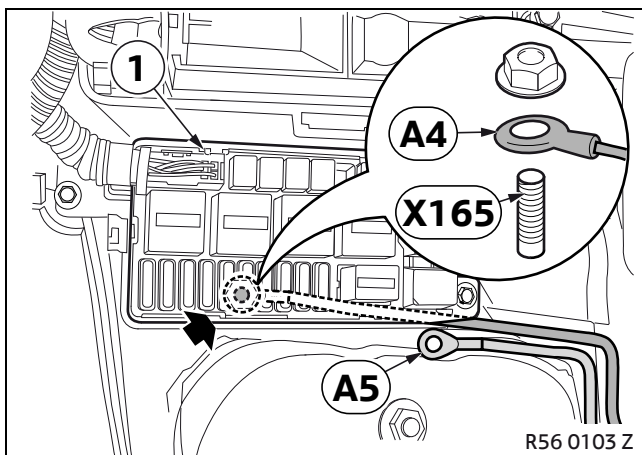
Connect control unit **B** to branch **A2** (SW 9-pin relay base).

Secure branch **A2** and branch **A3** (fuse holder) to the standard wiring harness in the footwell on the driver's side using cable ties **O**.



Route branches **A4-A9** from the interior of the vehicle through the rubber grommet (1) into the engine compartment.

Seal the cable ducts.



Route branches **A4-A5** to the engine compartment fuse holder (1).

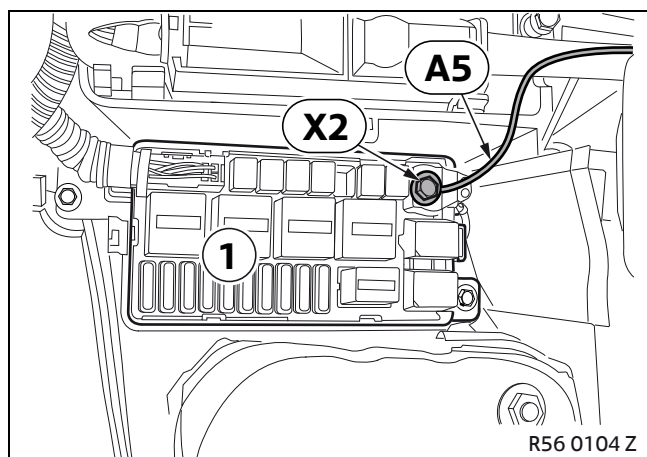
Loosen the engine compartment fuse holder (1) and fold it out of the way.

Connect branch **A4** (eyelet M6) to terminal 31 support point **X165**.

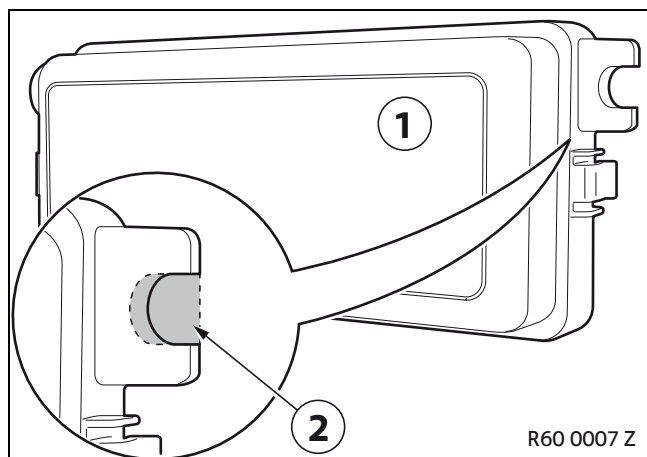
Connect the engine compartment fuse holder (1).



## 5. Installing and connecting the wiring harness

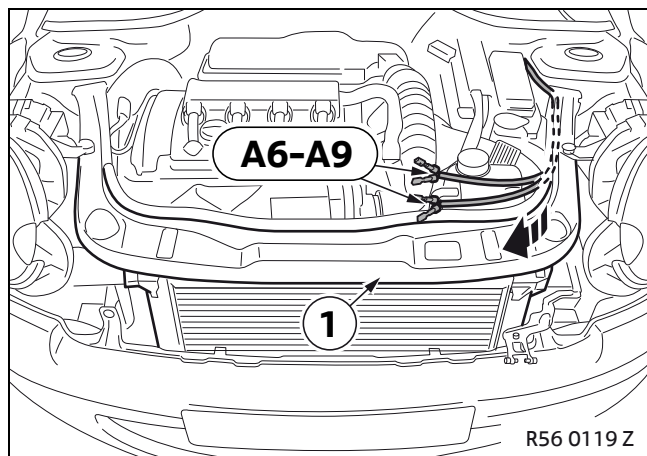


Connect branch **A5** (eyelet M8) to terminal 30 support point **X2** of engine compartment fuse holder (1).

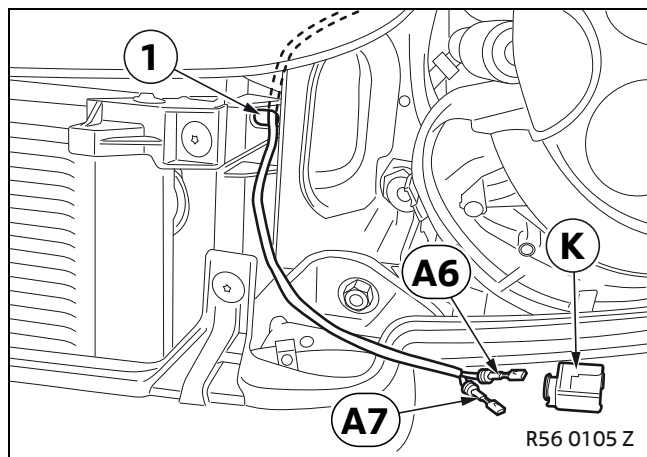


Mill out the cover for the engine compartment fuse holder (1) in the area marked (2) accordingly.

Install the cover for the engine compartment fuse holder (1).



Route branches **A6–A9** along the standard wiring harness to the front end (1).

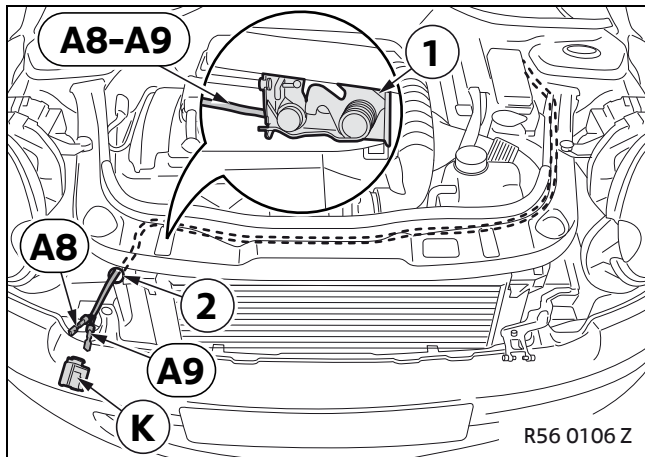


Route branches **A6–A7** through the opening (1) in the front end.

Connect branches **A6** and **A7** to socket casing **K** (SW 2-pin) as follows:

- Branch **A6**, BL/RT cable, to PIN 1
- Branch **A7**, BR cable, to PIN 2

## 5. Installing and connecting the wiring harness



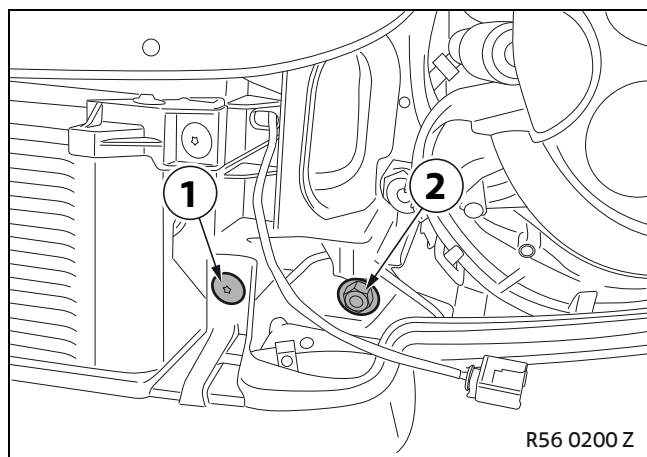
Route branches **A8–A9** along the bonnet release guide through the opening (2) in the front end.

▣ Ensure that the engine compartment lid catch is freely mobile (1). Branches **A8–A9** must not be damaged by the engine compartment lid catch (1). ◀

Connect branches **A8** and **A9** to socket casing **K** (SW 2-pin) as follows:

- Branch **A8**, BL/WS cable, to PIN 1
- Branch **A9**, BR cable, to PIN 2

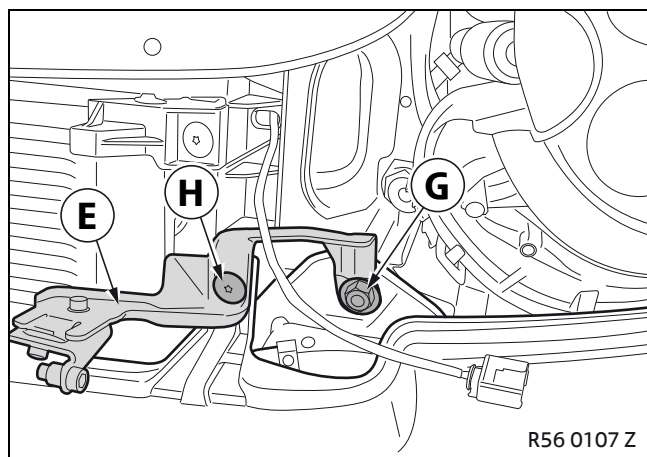
## 6. Installing the additional high-beam headlights holder




### R55, R56, R57 cars only

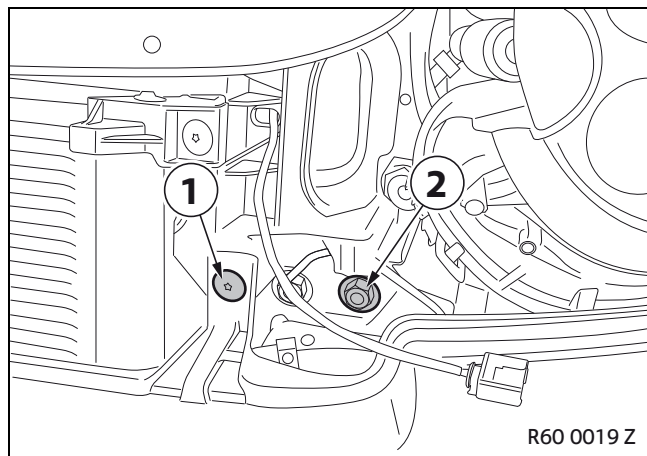
Remove the standard screw connections from the bumper trim (1) and support (2), they are no longer required.

Proceed in exactly the same way on the right-hand side.



 The tightening torque of hexagon nut **G** is 22 Nm. ◀  
Screw the left holder **E** using hexagon nut **G** and screw **H**.

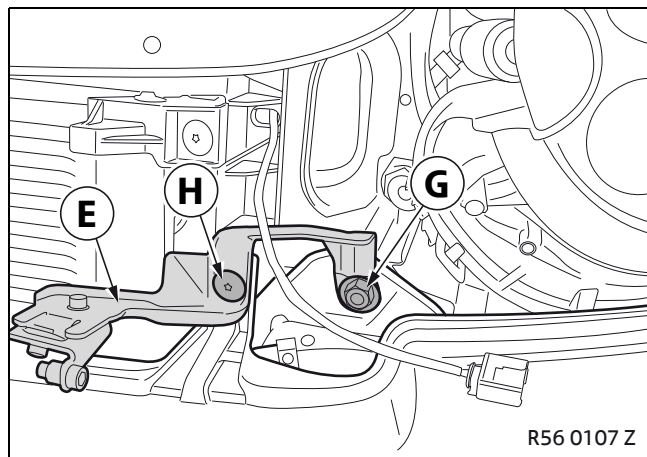
Proceed in exactly the same way on the right-hand side.




### R60 cars only

Remove the standard screw connections from the bumper trim (1) and support (2), they are no longer required.

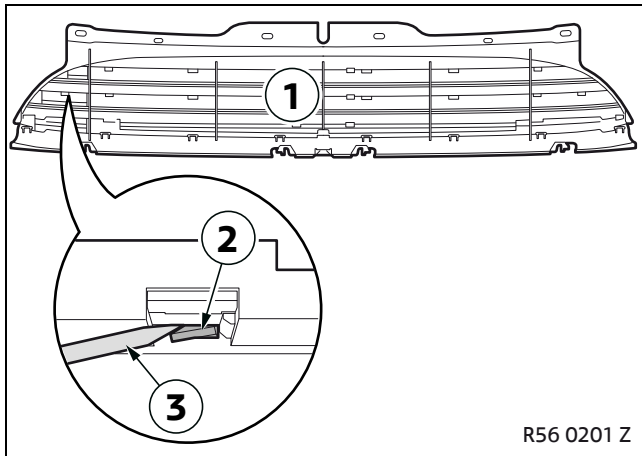
Proceed in exactly the same way on the right-hand side.



 The tightening torque of hexagon nut **G** is 22 Nm. ◀  
Screw the left holder **E** using hexagon nut **G** and screw **H**.

Proceed in exactly the same way on the right-hand side.

## 7. Converting the radiator grille and installing the additional high-beam headlights



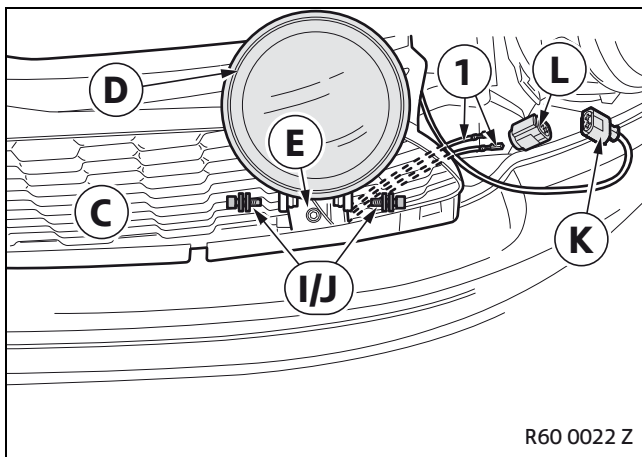
### R55, R56, R57 cars only with radiator grille in chrome

▶ In order to avoid damage to the chrome bars, place the central radiator grille (1) on a protective cloth. ◀

Remove the adhesive strips on the retaining lugs (2) using a screwdriver (3).

▶ Carefully push the retaining lugs (2) downwards and take hold of the chrome strips from the radiator grille (1). ◀

Fit the chrome strips onto the central radiator grille C. To secure them in place, apply hot glue to the retaining lugs (2).



### All cars

▶ All cars Remove centre front decorative grille C to protect against damage in the area of mount E and F before installing.

Apply the decorative strip to the central radiator grille C and loosely push it into place.

First loosely screw on the additional high-beam headlight D using screws I and 2 shims J.

Route connecting cable (1) below holder E through the central radiator grille C to socket casing K.

Connect connecting cable (1) of the left-hand high-beam headlight D as follows to pin housing L (SW 2-pin):

- Cable, VI/SW cable, to PIN 1
- Cable, BR cable, to PIN 2

Connect pin housing L to socket casing K.

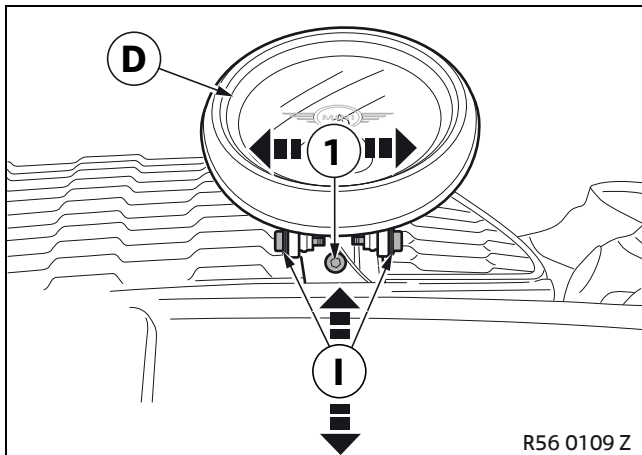
Proceed in exactly the same way for the right-hand headlight D.

Secure central radiator grille C in place.

## 8. Concluding work and coding

This retrofit system does not require coding.

- Connect the battery
- Conduct a brief test
- Conduct a function test
- Re-fit the car components as required
- Print out section 10 of these installation instructions and give it to the customer



Adjust the additional high-beam headlights **D** as follows with the headlight adjustment tool:

### Vertical setting

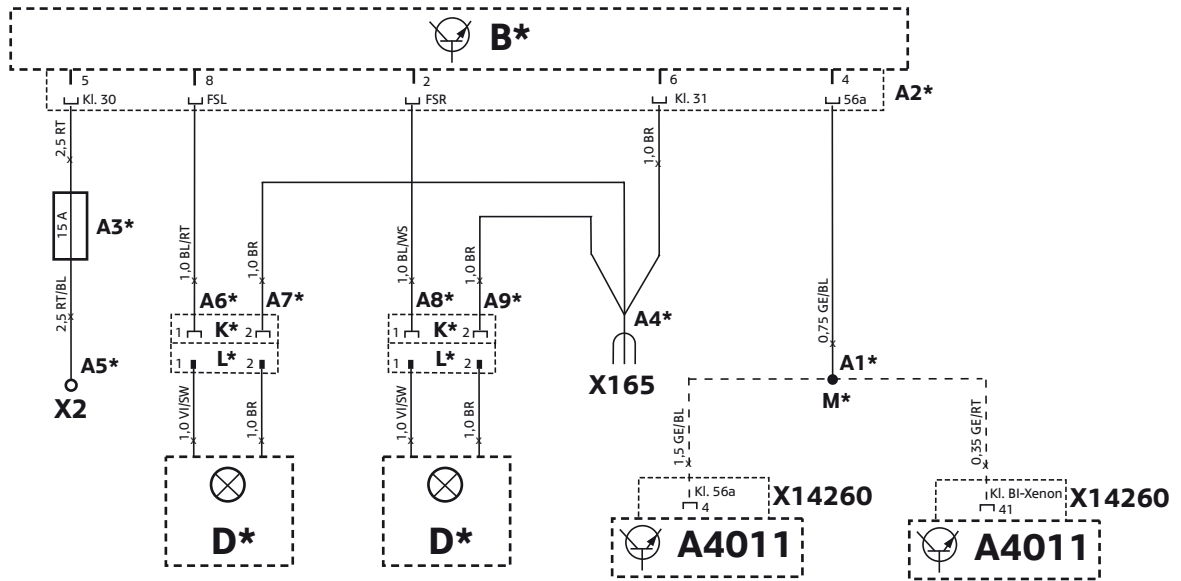
Loosen the screw (1) and adjust the vertical setting.

### Horizontal setting

Loosen both screws **I** and adjust the horizontal setting.

- ▶ The tightening torque of the screws is 12 Nm. ◀  
Tighten screws (1) and **I**.

## 9. Wiring diagram



R56 0110 Z

### Legend

<b>A4011</b>	Footwell module
<b>A1*</b>	Socket contact
<b>A2*</b>	SW 9-pin relay base
<b>A3*</b>	Fuse holder
<b>A4*</b>	Eyelet M6
<b>A5*</b>	Eyelet M8
<b>A6*</b>	Socket contact
<b>A7*</b>	Socket contact
<b>A8*</b>	Socket contact
<b>A9*</b>	Socket contact
<b>B*</b>	Control unit
<b>D*</b>	High-beam headlight
<b>K*</b>	SW 2-pin socket casing
<b>L*</b>	SW 2-pin pin housing
<b>M*</b>	5-way miniature connector

## 9. Wiring diagram

### Legend

- X2** Terminal 30 support point in the engine compartment fuse holder
- X165** Terminal 31 support point under the engine compartment fuse holder
- X14260** SW/GR 51-pin socket casing

All the designations marked with an asterisk (\*) apply only to these installation instructions or this wiring diagram.



### Cable colours

- BL Blue
- BR Brown
- GE Yellow
- SW Black
- RT Red
- VI Violet
- WS White

## 10. Customer information for the additional high-beam headlights



This customer information must be printed out and given to the customer.

### 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.



### Operating the additional high-beam headlights

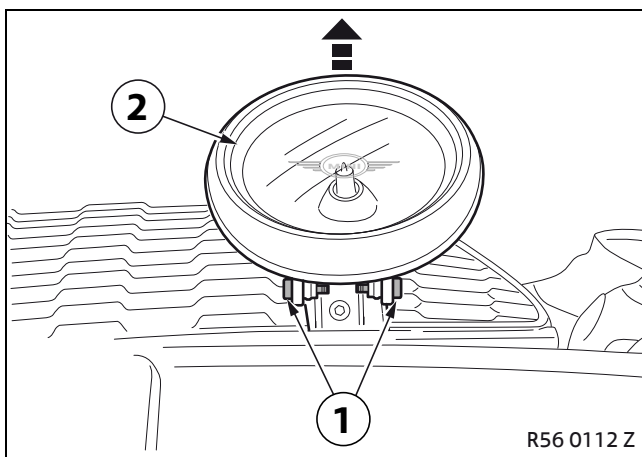
Whenever you switch the high-beam headlights on or actuate the headlight flash when the ignition is on or the engine is running, the additional high-beam headlights light up too.

-  Consult the applicable state and regional laws governing the use of additional headlights. Some countries, for instance, forbid the simultaneous use of four lights, while others ban their use on public roads altogether and require that the additional high-beam headlights are equipped with optional headlight covers when not in use. ▶
-  Risk of damage from overheating. Never use the additional high-beam headlight when the optional headlight covers are fitted. ▶

### Changing the bulb

Lamps and lights are an important part of the car's safety features. Appropriate care should therefore be used when handling them. If you are not familiar with such work, have it performed by your MINI service centre.

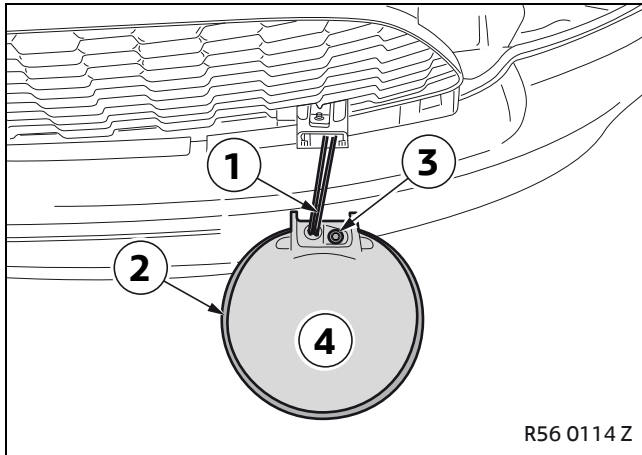
-  Bulb required: **H3** (55 W). Do not touch the glass rounded section of the bulb with your bare hands, since even slight contamination can burn onto the surface and reduce the bulb's service life. Use a clean cloth, a paper towel or similar to take hold of the bulb at its base. ▶
-  When carrying out any work on the car's electrical system, switch off the device you are working on or disconnect the battery's negative terminal, otherwise you may cause a short-circuit. Always read any instructions provided by the bulb's manufacturer in order to avoid injury and/or damage when changing the bulb. ▶




Unscrew both screws (1) and pull the additional high-beam headlight (2) carefully forwards.

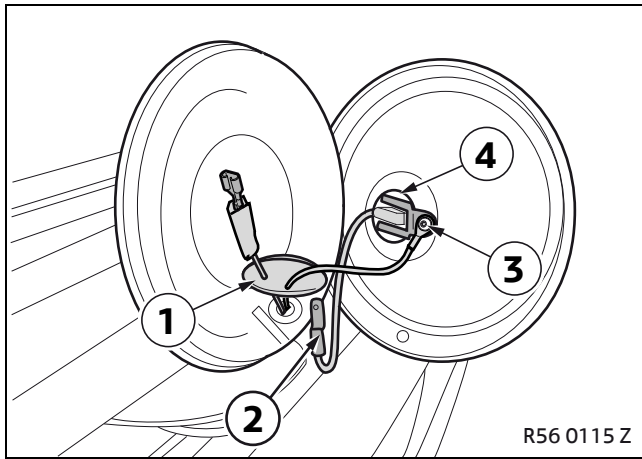


## 10. Customer information for the additional high-beam headlights



 In order to avoid damaging the cable (1), hold the additional high-beam headlight (2) with one hand. ◀


Unscrew the Allen screw (3) and remove the housing (4).



Remove the rubber cap (1) and disconnect the plug (2).


Loosen the screw (3), remove it and change the bulb (4).

The headlight is reassembled in the reverse order.

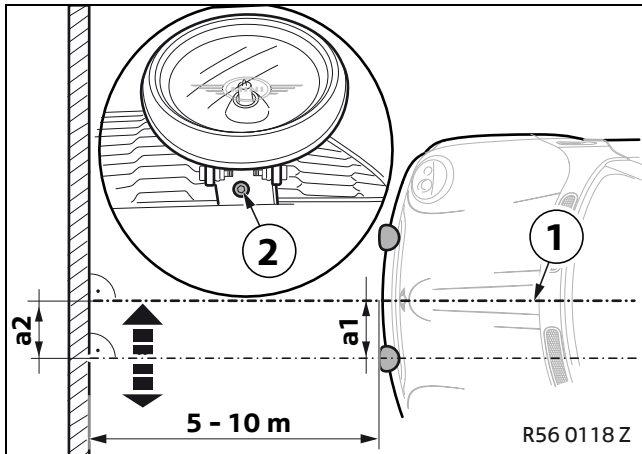
 The tightening torque of the screws is 12 Nm.  
The position of the additional high-beam headlight must be adjusted after the bulb has been changed. ◀

## 10. Customer information for the additional high-beam headlights

### Adjusting the additional high-beam headlights

 If you are not having your additional high-beam headlights adjusted by your MINI service centre, you can adjust them yourself even without a headlight adjustment tool. The steps for how to do this are described using the example of the left-hand additional high-beam headlight. The right-hand additional high-beam headlight is adjusted in exactly the same way.

To adjust the headlights, park your unladen car on even ground and around 5 - 10 m perpendicularly to a vertical wall. ◀




#### Testing the vertical setting

- Measure the distance **a1** from the centre of the cone of light on the wall to the extension of the vehicle's longitudinal axis (1).
- Measure the distance **a2** from the centre of the cone of light on the wall to the extension of the vehicle's longitudinal axis (2).

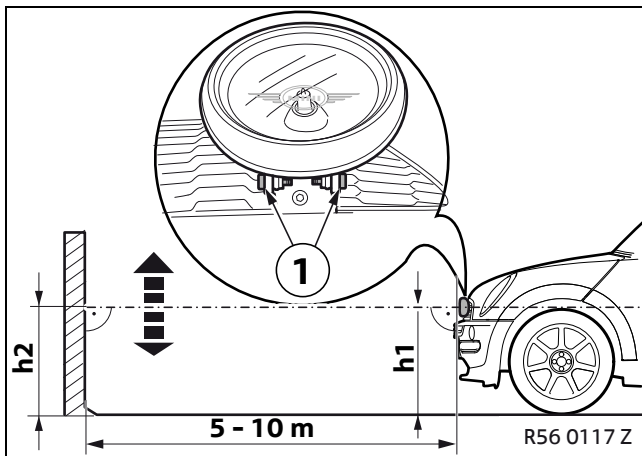
If distances **a1** and **a2** are not identical, adjust the vertical position as follows:

#### Adjusting the vertical position

- Loosen the screw (2) and rotate the additional high-beam headlights so that distances **a1** and **a2** are the same.

 The tightening torque of the screws is 12 Nm. ◀

- Tighten the screw (2) to 12 Nm.




#### Testing the horizontal position

- Measure the height **h1** from the centre of the additional high-beam headlight to the floor.
- Measure the height **h2** from the centre of the cone of light on the wall to the floor.

If heights **h1** and **h2** are not identical, adjust the horizontal position as follows:

#### Adjusting the horizontal position

- Loosen both screws (1) and rotate the additional high-beam headlights so that heights **h1** and **h2** are the same.

 The tightening torque of the screws is 12 Nm. ◀

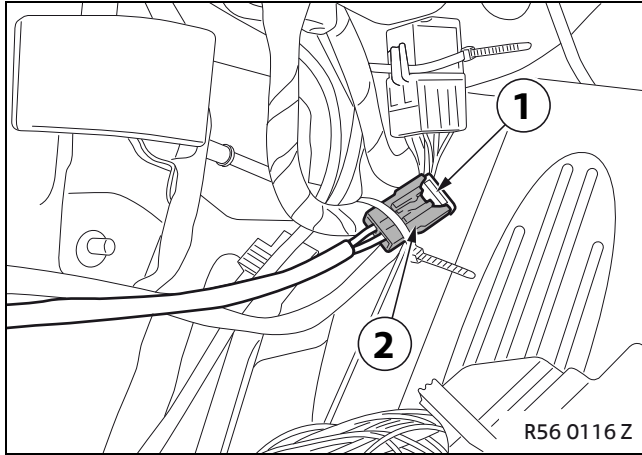
- Tighten the screws (1) to 12 Nm.

## 10. Customer information for the additional high-beam headlights

### Changing the fuse

**!** When carrying out any work on the car's electrical system, switch off the device you are working on or disconnect the battery's negative terminal, otherwise you may cause a short-circuit.

Do not repair a burnt-out fuse or replace it with a fuse of another colour or Ampere rating, since overloaded electrical cables could cause a fire in the car. ◀



Fuse required (1): **15 A**

The fuse (1) for the additional high-beam headlights is located in the footwell on the driver's side, behind the side trim.

Remove and change the fuse (1) from the fuse holder (2).

If the fuse (1) blows repeatedly, have your MINI service centre investigate the cause.

### Cleaning and care

Use a soft damp cloth to clean the additional high-beam headlights. Do not use abrasive or corrosive cleaning agents.