

# H Installation documentation

## A / C control "Webasto Comfort" for Thermo Top Evo water heater

BMW 1 Series (F20/F21) / 2 Series (F22/F23) / 2 Series Active Tourer (F45) / 2 Series Gran Tourer (F46) /

3 Series (F30/F31/F34) / 4 Series (F32/F36) / X1 (F48) / X2 (F39)

Mini Cooper / One (F56)

Left-hand drive vehicle

| Manufacturer | Model                                | Type    | Model year | EG-BE-No. / ABE       |
|--------------|--------------------------------------|---------|------------|-----------------------|
| BMW          | 1 Series                             | 1K4     | from 2015  | e1* 2007/46* 0283*... |
| BMW          | 2 Series                             | F22/F23 | from 2015  | e1* 2007/46* 0277*... |
| BMW          | 2 Series Active Tourer / Gran Tourer | UKL-L   | from 2016  | e1* 2007/46* 0371*... |
| BMW          | 3 Series                             | 3L/3K   | from 2015  | e1* 2007/46* 0315*... |
| BMW          | 3 Series Gran Turismo                | F34     | from 2015  | e1* 2007/46* 0559*... |
| BMW          | 4 Series                             | C1X/C1G | from 2015  | e1* 2007/46* 0316*... |
| BMW          | X1                                   | UKL-L   | from 2016  | e1* 2007/46* 0371*... |
| BMW          | X1                                   | UKL-L   | from 2017  | e1* 2007/46* 1676*... |
| BMW          | X2                                   | UKL-L   | from 2018  | e1* 2007/46* 1824*... |
| Mini         | Cooper                               | UKL-L   | from 2014  | e1* 2007/46* 0371*... |
| Mini         | One                                  | UKL-L   | from 2016  | e1* 2007/46* 0371*... |

| Validity                      | Equipment variants                | Model    |          |          |          |    |    |        |     |
|-------------------------------|-----------------------------------|----------|----------|----------|----------|----|----|--------|-----|
|                               |                                   | 1 Series | 2 Series | 3 Series | 4 Series | X1 | X2 | Cooper | One |
| Verified equipment variants   | Manual air-conditioning           |          |          |          |          |    |    | x      |     |
|                               | 2 zone automatic air-conditioning | x        | x        | x        | x        | x  | x  | x      | x   |
| Unverified equipment variants | Manual air-conditioning           |          |          |          |          |    |    |        | x   |

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# 1 List of abbreviations

|     |  |
|-----|--|
| CCL | CCL GW                                   |
| DP  | Fuel pump                                |
| HG  | Heater                                   |
| K2  | Additional relay                         |
| K3  | Additional relay                         |
| SH2 | Engine compartment fuse holder for F1/F2 |
| UP  | Coolant pump                             |

## 2 Installation notes

### 2.1 Information on validity

This installation documentation applies to vehicles - see page 1 – and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation. Vehicle and engine types, equipment variants and other specifications not listed in this installation documentation have not been tested. However, installation according to this installation documentation may be possible.

### 2.2 Components used

| Designation   | Order number |
|---|--------------|
| Additional 'Webasto Comfort' A/C control kit for Mini / BMW 2 Series / 3 Series / X1 / X2 | 1324388J     |

### 2.3 Validity Notes

This installation documentation applies only in combination with:

| Designation  | Identification number |
|--|-----------------------|
| Installation kit for BMW 2 Series Active Tourer/2 Series Gran Tourer/X1 petrol and diesel/X2 diesel 'Island' | 1324379_              |
| Installation documentation for BMW 2 Series/X1   | 1324380_              |

or

|  |          |
|--|----------|
| Installation kit for BMW 2 Series Active Tourer/2 Series Gran Tourer/X1 petrol and diesel/X2 diesel 'Inline' | 1325209_ |
| Installation documentation for BMW 2 Series  | 1325207_ |

or

|   |          |
|---|----------|
| Installation kit for BMW X2 petrol 'Island' | 1326525_ |
| Installation documentation for BMW X2       | 1326526_ |

or

|   |          |
|---|----------|
| Installation kit for BMW 1 Series/3 Series petrol and diesel, 2 Series/4 Series petrol 2015           | 1324710_ |
| Installation documentation for BMW 1 Series/3 Series petrol and diesel; 2 Series/4 Series petrol 2015 | 1324709_ |
| or  | 1325381_ |
| Installation documentation for 3 Series Gran Turismo petrol and diesel 2015                           |          |

or

|   |          |
|---|----------|
| Installation kit for BMW 4 Series diesel 2016           | 1326040_ |
| Installation documentation for BMW 4 Series diesel 2016 | 1326135_ |

or

|   |          |
|---|----------|
| Installation kit for Mini Cooper / One petrol           | 1324863_ |
| Installation documentation for Mini Cooper / One petrol | 1324864_ |

or

|   |          |
|---|----------|
| Installation kit for Mini Cooper diesel           | 1324865_ |
| Installation documentation for Mini Cooper diesel | 1324866_ |

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## 3 About this document

### 3.1 Purpose of the document

This installation documentation is part of the product and contains all the information required to ensure professional vehicle specific installation of the:

'Webasto Comfort' air-conditioning control installation kit

### 3.2 Warranty and liability

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components.

The initial start-up is to be executed with the Webasto Thermo Test Diagnosis.

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

#### 3.2.1 Statutory regulations governing installation

The Thermo Top Evo heater has been type-tested and approved in accordance with ECE-R 10 (EMC) and ECE-R 122 (heater). The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StVZO (German Road Traffic Licensing Authority).

### 3.3 Safety

#### Qualifications of installation personnel

The installation personnel must have the following qualifications:

- Successful completion of Webasto training
- Corresponding qualification for working on technical systems

#### Regulations and legal requirements

The regulations from the heater's general installation and operating instructions must be observed.

#### 3.3.1 Safety information on installation

##### Danger posed by live parts

- ▶ Prior to installation, disconnect the vehicle from the voltage supply.
- ▶ Make sure the electrical system is earthed correctly.
- ▶ Always comply with legal requirements.
- ▶ Observe data on type label.

##### Danger of fire and leaking toxic gases due to improper installation

- ▶ Vehicle parts in the vicinity of the heater must be protected against excessive heating by the following measures:
  - ⇒ Maintain minimum safety distances.
  - ⇒ Ensure adequate ventilation.
  - ⇒ Use fire-resistant materials or heat shields.

##### Danger due to sharp edges

- Lacerations
- Short circuit due to electrical wire damage
- ▶ Fit protectors on sharp edges.

### 3.4 Using this document

Before installing and operating the heater, read this installation documentation, the installation instructions of the heater, the operating instructions and supplementary sheets provided.

#### 3.4.1 Explanatory Notes on the Document

There is an identification mark near the respective work step to allow you to quickly allocate the other applicable documents to the Webasto components to be installed:

|   |  |
|---|--|
| Generally valid Webasto documentation                             |  |
| Vehicle-specific installation documentation                       |  |
| Vehicle-specific installation documentation of the cold start kit |  |
| Webasto Comfort A/C control                                       |  |
| Webasto Standard A/C control                                      |  |
| Tank extracting device (e.g. FuelFix)                             |  |
| Exhaust end fastener (EFIX)                                       |  |
| Combustion air intake silencer                                    |  |
| Spacer bracket (ASH)  |  |

#### 3.4.2 Use of symbols



#### DANGER

Type and source of the risk

Consequences: Failure to follow the instructions can result in death

► Actions to protect yourself against risks.



#### WARNING

Type and source of the risk

Consequences: Failure to follow the instructions can lead to serious or even fatal injuries

► Actions to protect yourself against risks.



#### CAUTION

Type and source of the risk

Consequences: Failure to follow the instructions can lead to minor injuries

► Actions to protect yourself against risks.



Type and source of the risk

Consequences: Failure to follow the instructions can lead to material damage

► Actions to protect yourself against risks.



Reference to the vehicle manufacturer's specific documents.



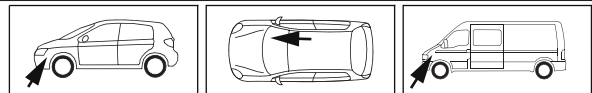
Note on a special technical feature

#### 3.4.3 Work step identification marks

The ongoing work step is indicated on the outside top corner of the page:

|                   |                   |              |          |
|-------------------|-------------------|--------------|----------|
| Mechanical system | Electrical system | High-voltage | Coolant  |
|                   |                   |              |          |
| Combustion air    | Fuel              | Exhaust      | Software |
|                   |                   |              |          |

#### 3.4.4 Orientation aid



The arrow indicates the position on the vehicle and the viewing angle

#### 3.4.5 Use of highlighting

| Highlight                        | Explanation  |
|----------------------------------|--|
| ►                                | Necessary action   |
| ⇒                                | Result of an action  |
| <b>1</b> / <b>12</b> / <b>a1</b> | Position numbers for the image descriptions  |
| <b>①</b> / <b>⑫</b> / <b>Ⓐ</b>   | Position numbers for the image descriptions for electrical wires and coolant hose sections |

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## 4 Technical Information

### Dimension specifications

- All dimensions specified in mm
- Perforated brackets and mounting angles are shown to scale
- Observe data regarding scale on the templates

### Tightening torque specifications

- Tighten all screw connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology

### Necessary special tools

- Automatic wire stripper 0.2 - 6 mm<sup>2</sup>
- Crimping pliers for connector 0.25 – 6 mm<sup>2</sup>
- Torque wrench for 2.0 - 10 Nm
- Deep-hole marker

## 5 Preparing measures

### 5.1 Vehicle preparation



Further information can be found in the vehicle manufacturer's technical documentation.

| Vehicle area                | Components to be removed  | Other applicable documents |
|-----------------------------|---|----------------------------|
| Engine compartment and body | <ul style="list-style-type: none"> <li>▶ Disconnect the battery (in case of 1 Series/2 Series (F22/F23)/3 Series and 4 Series in the boot)</li> </ul> |                            |

#### 2 Series (F45/F46)/X1(F48)/X2(F39)

|                       |  |  |
|-----------------------|--|--|
| Passenger compartment | <ul style="list-style-type: none"> <li>▶ Side instrument panel trim on the driver's and front passenger's side</li> <li>▶ Lower instrument panel trim on the driver's side</li> <li>▶ Footwell trim on the front passenger's side</li> <li>▶ Air duct footwell on the driver's side</li> <li>▶ Front centre console trim on the driver's and front passenger's side</li> </ul> |  |
|-----------------------|--|--|

#### 1 Series (F20/F21)/2 Series (F22/F23)/3 Series (F30/F31/F34)/4 Series (F32/F36)

|                       |   |  |
|-----------------------|---|--|
| Passenger compartment | <ul style="list-style-type: none"> <li>▶ Side instrument panel trim on the front passenger's side</li> <li>▶ Footwell trim on the front passenger's side</li> <li>▶ Glove box</li> <li>▶ Air-conditioning control unit</li> </ul> |  |
|-----------------------|---|--|

#### Cooper/One (F56)

|                       |  |  |
|-----------------------|--|--|
| Passenger compartment | <ul style="list-style-type: none"> <li>▶ Side instrument panel trim on the driver's side</li> <li>▶ Lower instrument panel trim on the driver's side</li> <li>▶ Footwell trim on the front passenger's side</li> <li>▶ Side trim of the centre console on the driver's and front passenger's side</li> </ul> |  |
|-----------------------|--|--|



## 6 Installation overviews

2 Series (F45/F46)/X1(F48)/X2(F39)

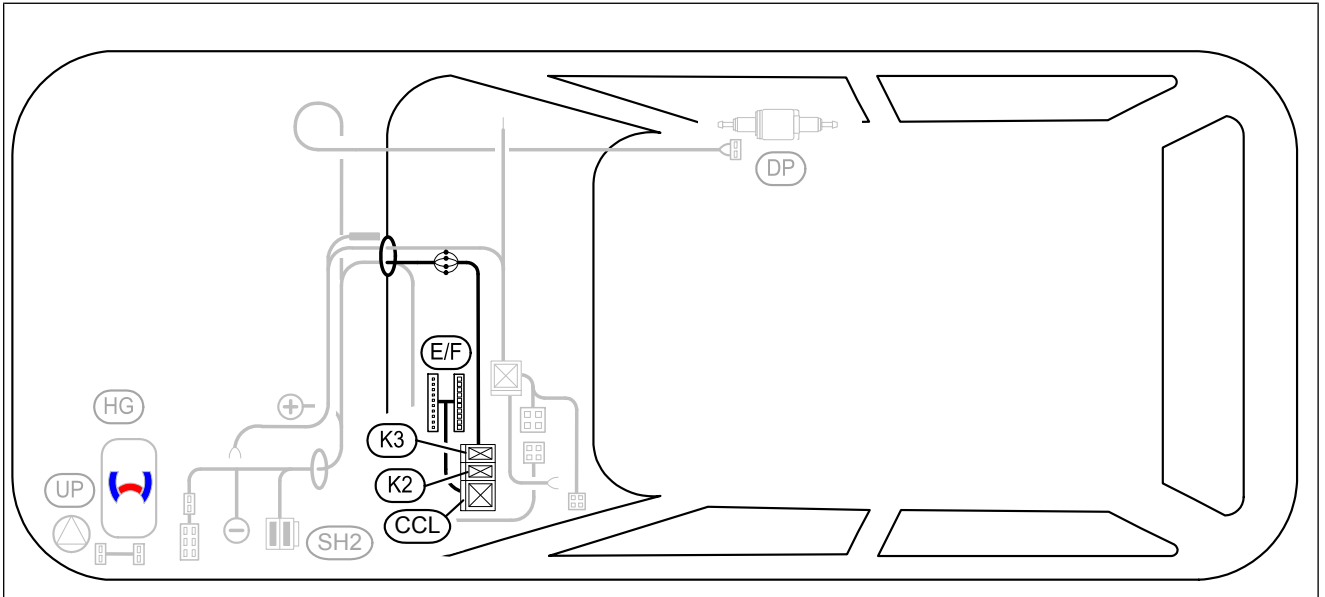


Fig. 1

1 Series (F20/F21)/2 Series (F22/F23)/3 Series (F30/F31/F34)/4 Series (F32/F36)

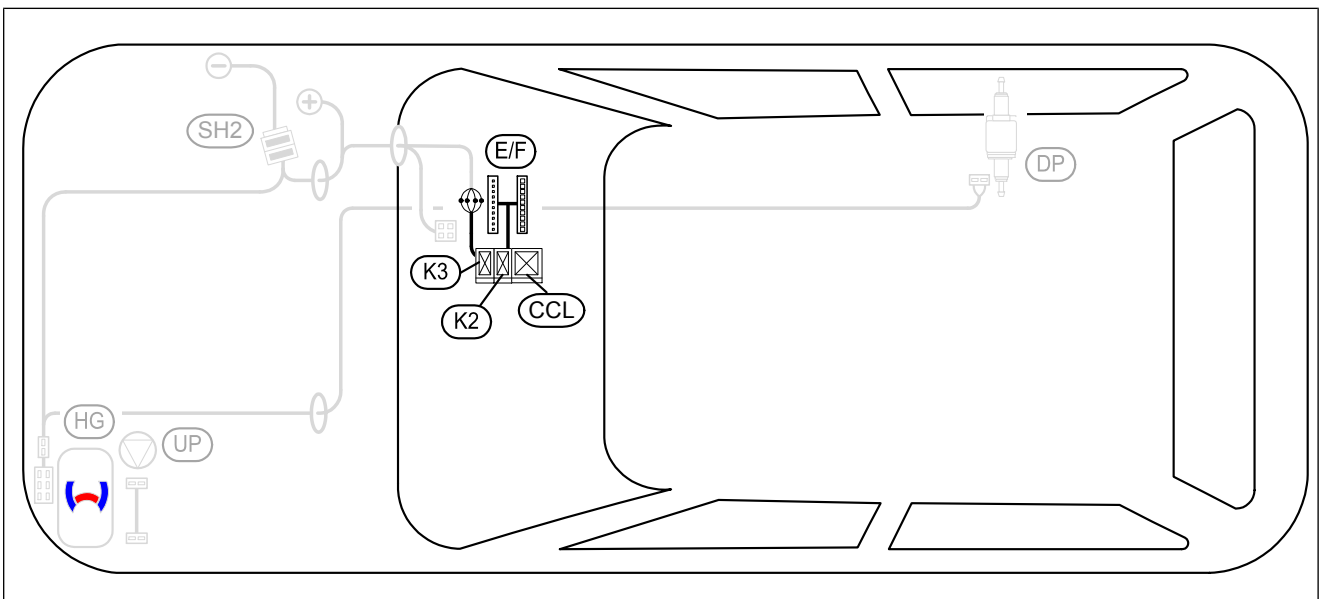


Fig. 2

## Cooper/One (F56)

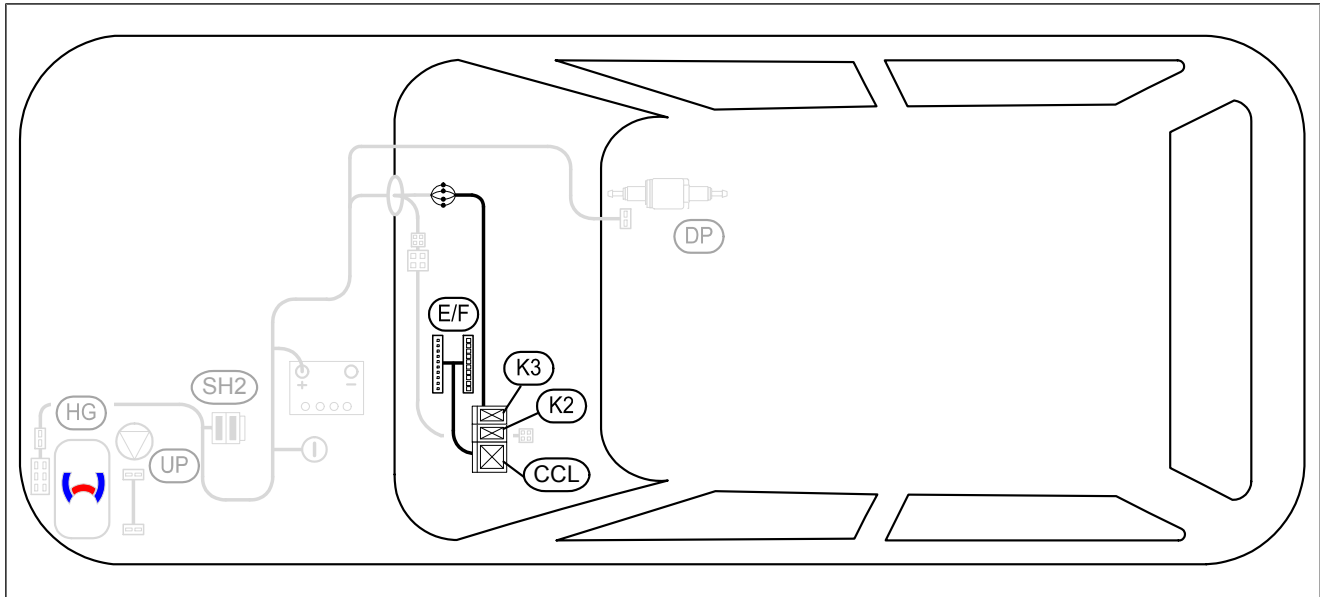


Fig. 3

### Legend to installation overview

| Abbreviation | Component                                  |
|--------------|--|
| CCL          | CCL Gateway                                |
| DP           | Fuel pump                                  |
| E/F          | Wiring harness adapter connector Plug&Play |
| HG           | Heater                                     |
| K2           | K2 additional relay                        |
| K3           | K3 additional relay                        |
| SH2          | Fuse holder of engine compartment          |
| UP           | Coolant pump                               |



## 7 Electrical system

### 7.1 Electrical system preparation

Preparing SH2

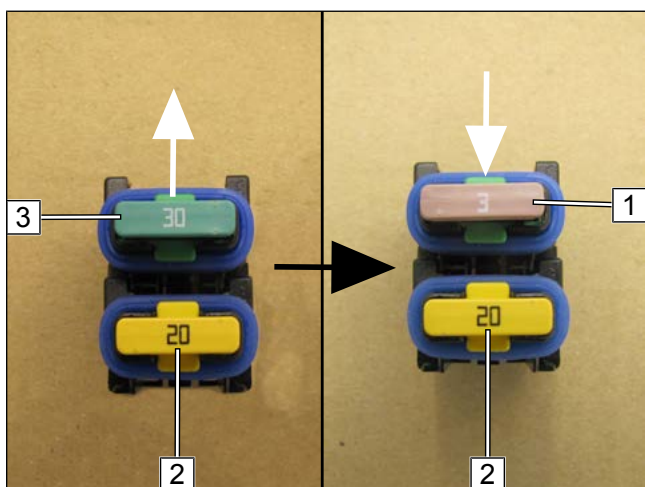


Fig. 4

► Replace 30A passenger compartment main fuse F2 **3** with 3A fuse **1**.

**2** Fuse F1: 20A

### 7.2 Glove box dismantling instructions (1 Series / 2 Series (F22/F23)/3 Series /4 Series)

Removing trim piece



Fig. 5



Not present in all vehicle models.

► Detach trim piece **1** from clips by pulling it forwards.

○ Retaining clip

Removing bolts



Fig. 6



This and the next figures show a vehicle of the 3 Series but apply to all models.

**1** Original vehicle bolt, if present

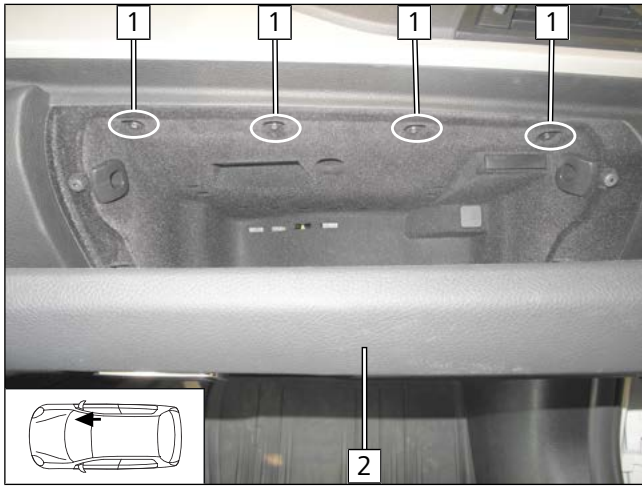


Fig. 7

► Open glove box **2**.

**1** Original vehicle bolt



Fig. 8

**1** Original vehicle bolt



Fig. 9

► Remove the glove box.

**1** Original vehicle bolt



### 7.3 Wiring diagram

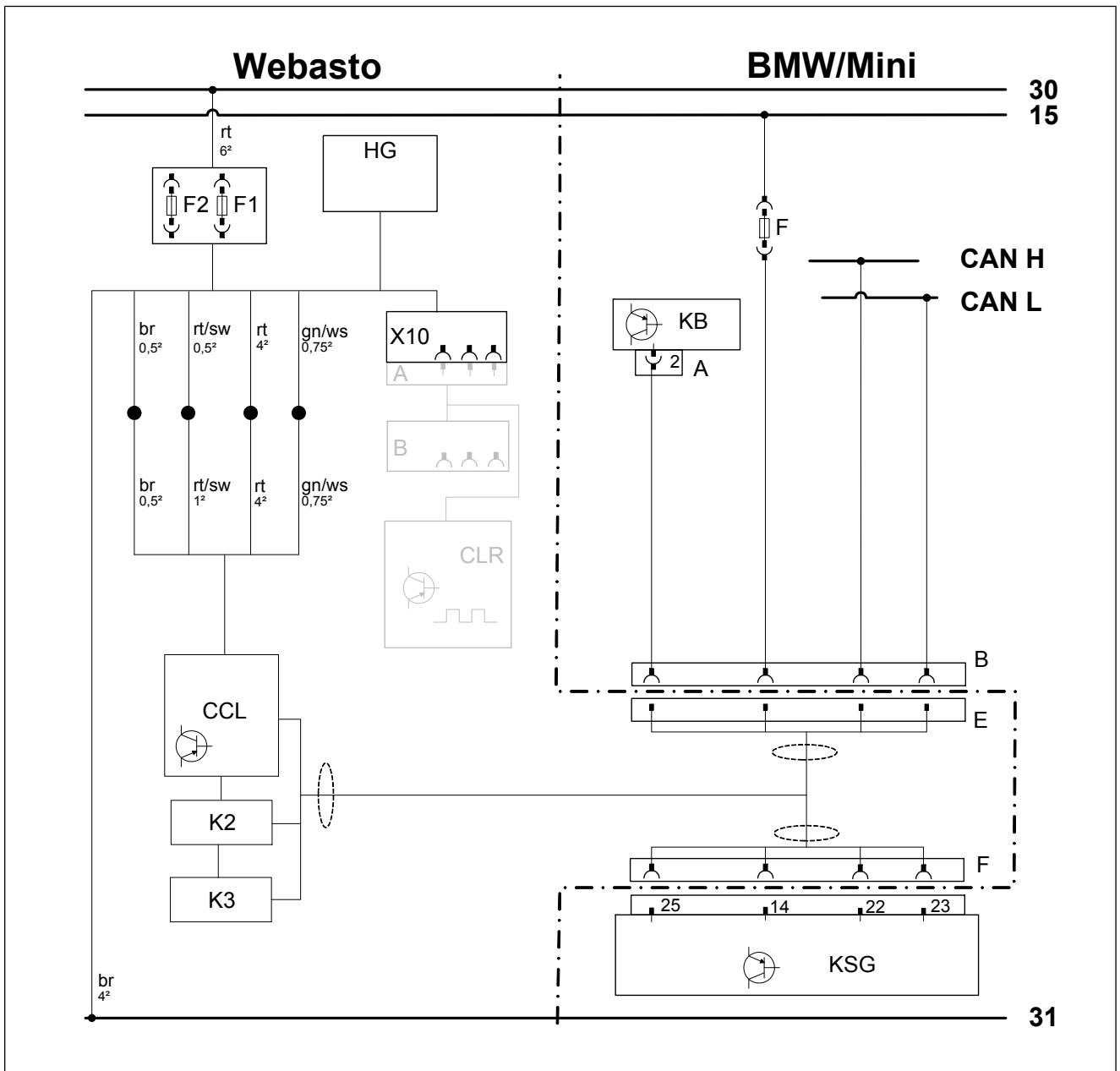


Fig. 10



## Legend to wiring diagram



The vehicle connector and component designations are freely chosen by Webasto.  
Cable colours may vary.

| Vehicle components |                               | Symbols      |             |
|--------------------|-------------------------------|--------------|-------------|
| Abbreviation       | Component                     | Abbreviation | Designation |
| F                  | KSG fuse                      |              |             |
| KB                 | A/C control panel             |              |             |
| A                  | KB connector                  |              |             |
| KSG                | Air-conditioning control unit |              |             |
| B                  | 26-pin KSG connector          |              |             |

| Webasto components |  | Cable colours |             |
|--------------------|--|---------------|-------------|
| Abbreviation       | Component                                      | Abbreviation  | Colour      |
| A                  | Male plug for CLR module wiring harness        | bg            | beige       |
| B                  | Female plug for CLR module wiring harness      | bl            | blue        |
| C                  | Male plug for adapter wiring harness           | br            | brown       |
| D                  | Female plug for adapter wiring harness         | dbl           | dark blue   |
| E                  | Male plug for Plug&Play wiring harness         | dgn           | dark green  |
| F                  | Female plug for Plug&Play wiring harness       | ge            | yellow      |
| CCL GW             | CAN CAN LIN Gateway                            | gn            | green       |
| CL GW              | CAN LIN Gateway                                | gr            | grey        |
| CLR                | Cold start module                              | hbl           | light blue  |
| D1                 | Diode  | hgn           | light green |
| D2                 | Diode group                                    | or            | orange      |
| F0                 | Additional fuse for power supply               | pk            | pink        |
| F1                 | Heater main fuse                               | rt            | red         |
| F2                 | Passenger compartment fan controller main fuse | sw            | black       |
| F3                 | Control element fuse                           | vi            | violet      |
| F4                 | Fan controller fuse                            | ws            | white       |
| F5                 | Additional fuse                                |               |             |
| HG                 | Heater TT-Evo                                  |               |             |
| K1                 | Relay K1                                       |               |             |
| K2                 | Relay K2                                       |               |             |
| K3                 | Relay K3                                       |               |             |
| LIN GW             | LIN Gateway                                    |               |             |
| PWM GW             | Pulse width modulator gateway                  |               |             |
| RSH                | Relay and fuse holder of passenger compartment |               |             |
| RTD                | Temperature sensor                             |               |             |
| X10                | Female plug for control element                |               |             |
| Y                  | Power adapter                                  |               |             |



## 7.4 Fan controller of 2 Series (F45/F46)/X1(F48)/X2(F39)

### Premounting CCL, relay K2 and relay K3 sockets

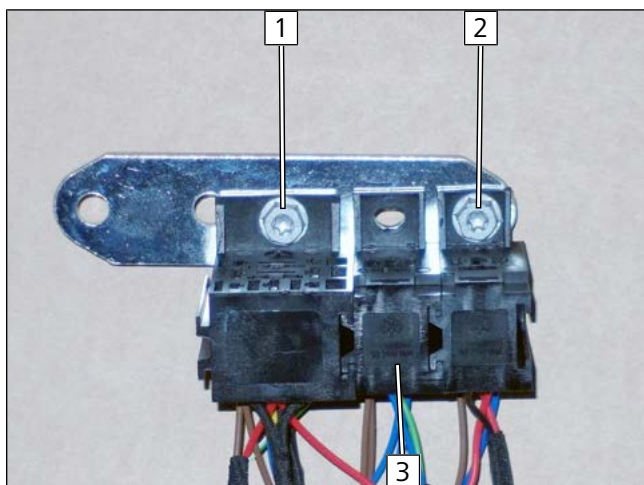


Fig. 11



Produce all following electrical connections as shown in the system wiring diagram.

- 1 M5x13 bolt, CCL socket, perforated bracket, flanged nut
- 2 M5x13 bolt, relay K3 socket, perforated bracket, flanged nut
- 3 Relay K2 socket

### Mounting CCL, relay K2 and relay K3

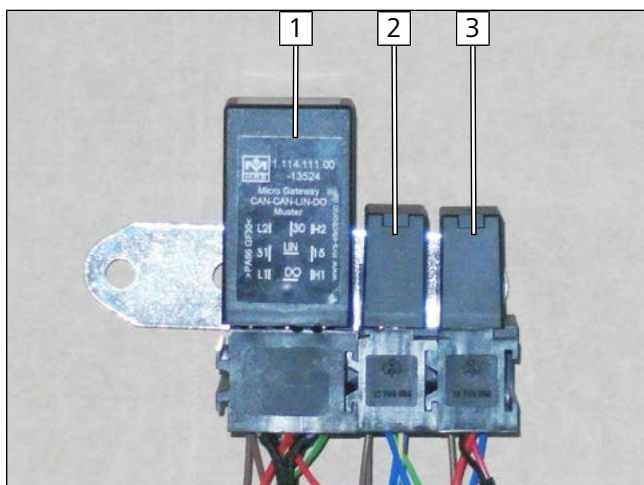


Fig. 12

- 1 CCL
- 2 Relay K2
- 3 Relay K3

### Mounting eyelet cable tie

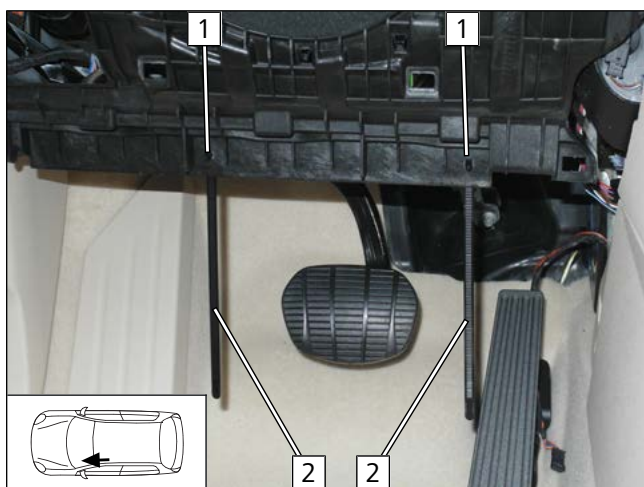


Fig. 13

► Drill a  $\text{Ø}6.0$  hole at position 1.

- 2 Eyelet cable tie



## Mounting CCL, relay K2 and relay K3 sockets

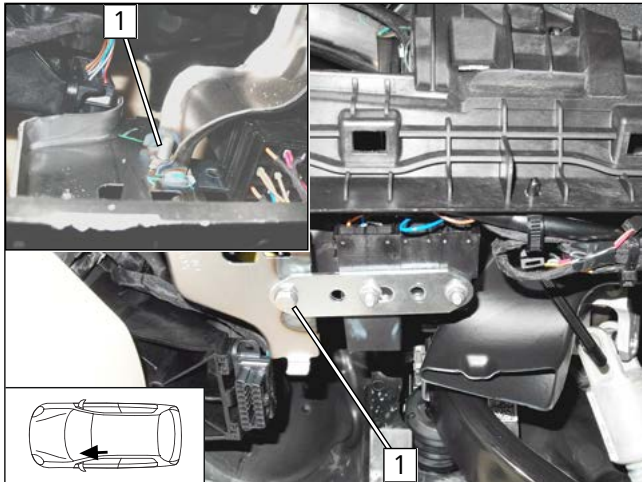


Fig. 14

- 1 M6x20 bolt, spring lock washer, premounted perforated bracket, original vehicle threaded hole

## Routing wiring harness

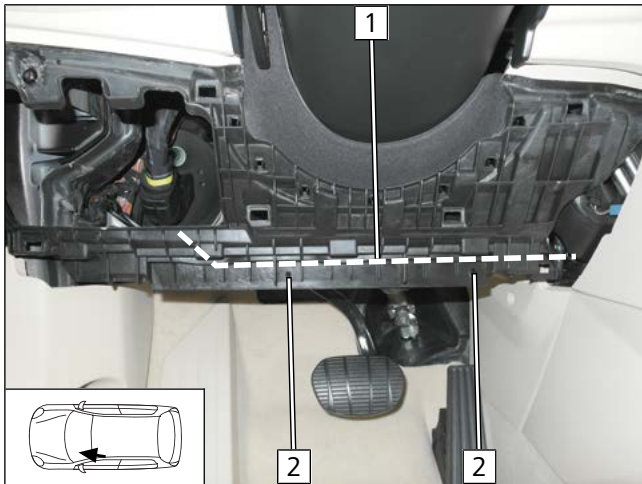


Fig. 15

- Route Plug&Play wiring harness 1 to the centre console and fasten with premounted eyelet cable tie 2.

## Disconnecting 26-pin connector B

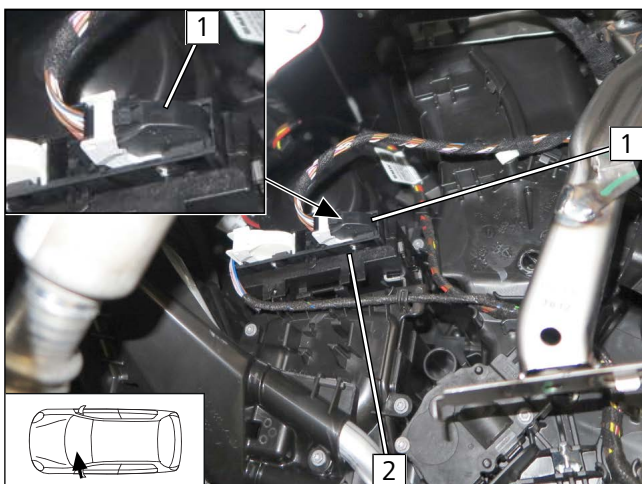


Fig. 16

- Disconnect 26-pin connector B 1 from A/C control unit.
- 2 Air-conditioning control unit





## Mounting Plug&Play wiring harness

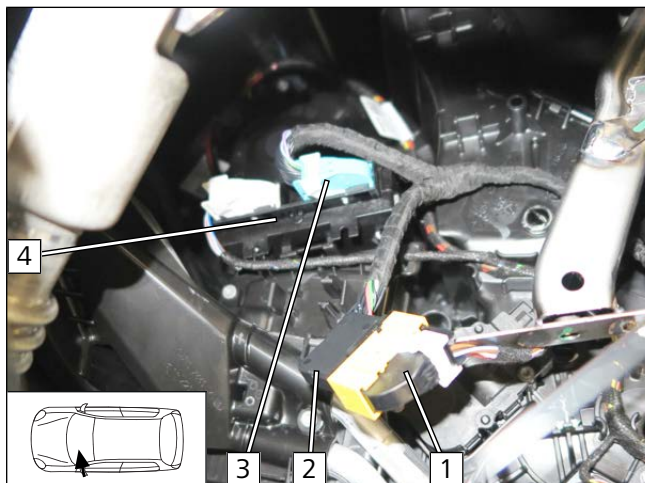


Fig. 17

- ▶ Connect 26-pin A/C control unit connector B **1** with 26-pin male plug E **2** of Plug&Play wiring harness.
- ▶ Connect 26-pin female plug F **3** of Plug&Play wiring harness to control unit **4**.
- ▶ Route wire ends of Plug&Play wiring harness to the front passenger's side.

## 7.5 Fan controller of 1 Series (F20/F21)/2 Series (F22/F23)/3 Series (F30/F31/F34)/4 Series (F32/F36)

### Cutting perforated bracket to length

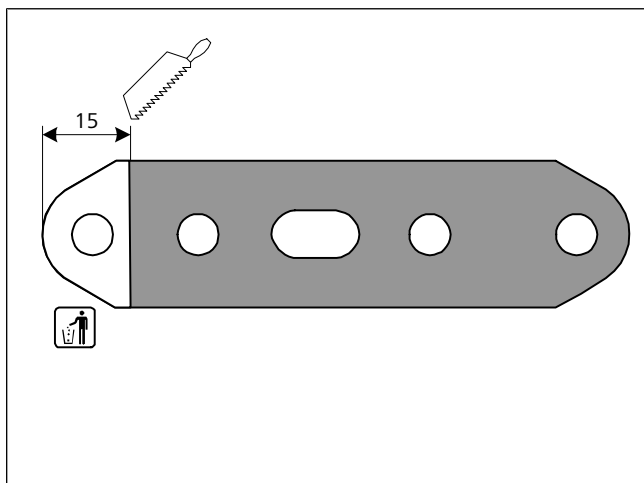


Fig. 18

### Premounting CCL, relay K2 and relay K3 sockets

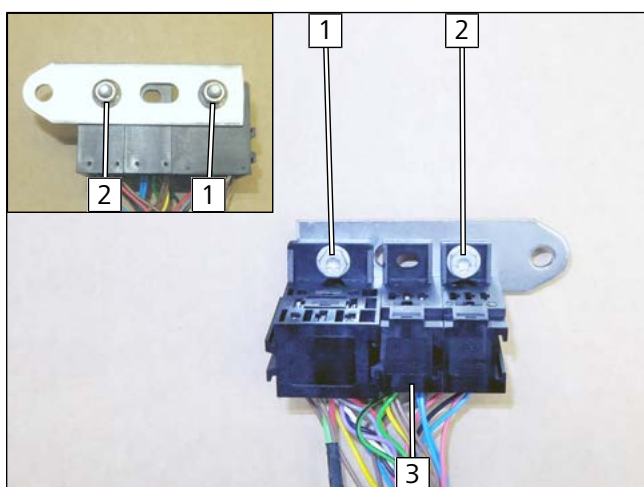



Fig. 19

 Produce all following electrical connections as shown in the system wiring diagram.

- 1** M5x13 bolt, CCL socket, perforated bracket, flanged nut
- 2** M5x13 bolt, relay K3 socket, perforated bracket, flanged nut
- 3** Relay K2 socket



## Mounting CCL, relay K2 and relay K3

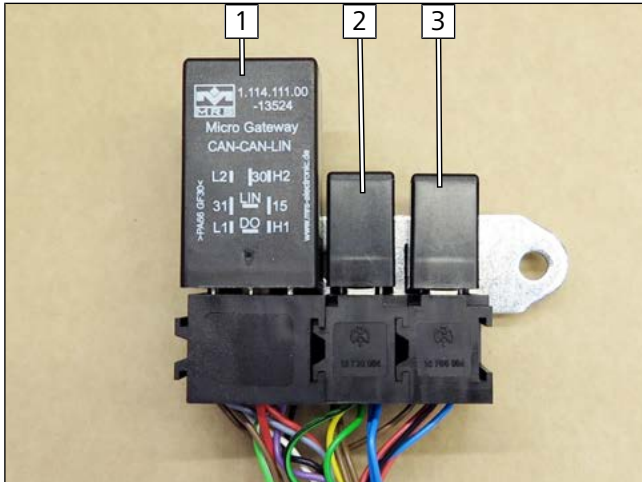


Fig. 20

- 1 CCL
- 2 Relay K2
- 3 Relay K3

## Premounting bolts

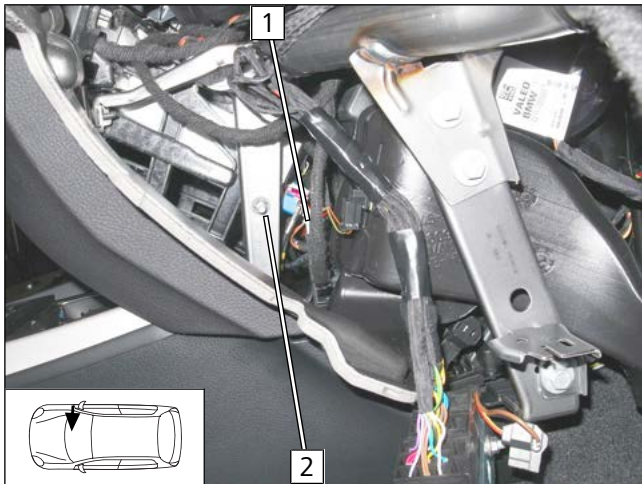


Fig. 21

- ▶ Detach plastic clip **1** on original vehicle line at pos. **2**.
- 2** M6x12 bolt (inserted from behind), original vehicle hole, lock washer

## Mounting CCL, relay K2 and relay K3 sockets



Fig. 22

- 1** Premounted M6x12 bolt, original vehicle hole, premounted perforated bracket, flanged nut



## Dismantling A/C control unit

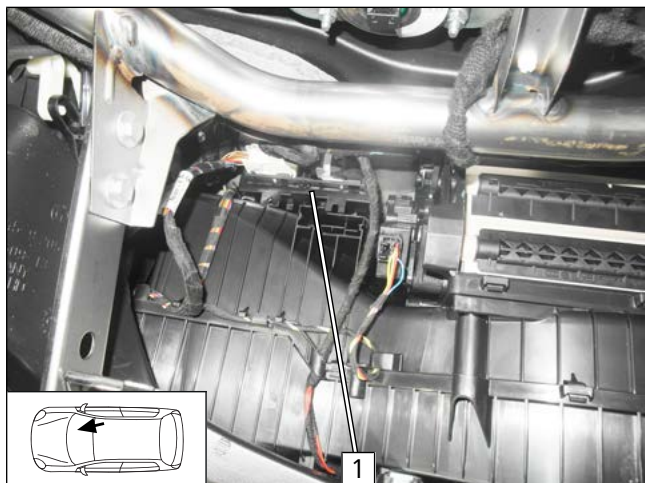


Fig. 23

- ▶ Remove A/C control unit **1** from bracket.

## Disconnecting 26-pin connector B from A/C control unit

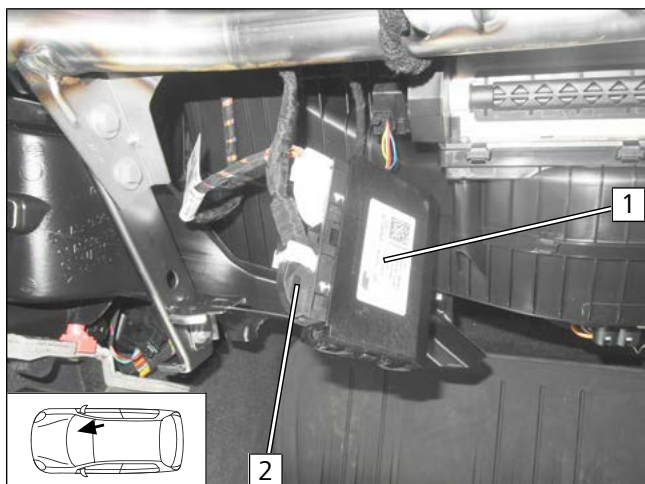


Fig. 24

- 1** Air-conditioning control unit
- 2** 26-pin connector B

## Mounting Plug&Play wiring harness

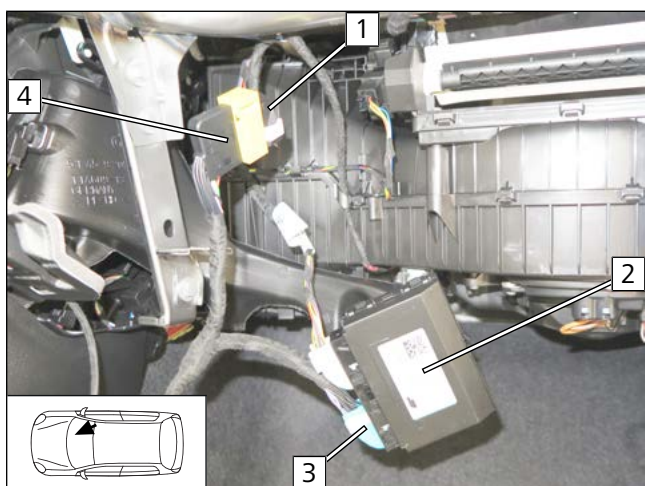


Fig. 25

- ▶ Connect 26-pin A/C control unit connector B **1** with 26-pin male plug E **4** of Plug&Play wiring harness.
- ▶ Connect 26-pin female plug F **3** of Plug&Play wiring harness to control unit **2**.
- ▶ Mount control unit **2** again and fasten wiring harnesses.



## 7.6 Fan controller of Cooper/One (F56)

Premounting CCL, relay K2 and relay K3 sockets

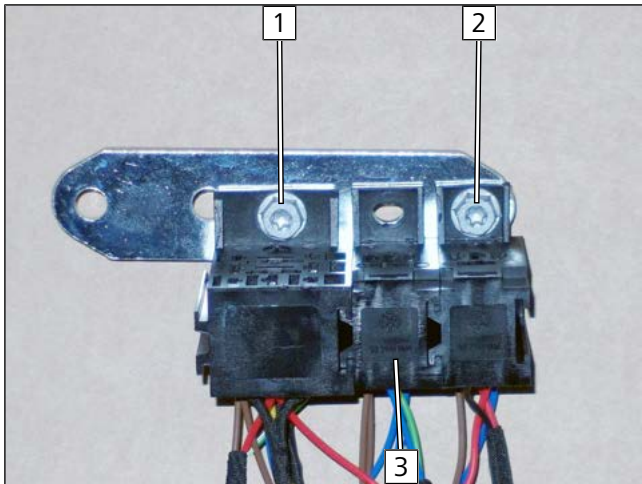


Fig. 26



Produce all following electrical connections as shown in the system wiring diagram.

- 1 M5x13 bolt, CCL socket, perforated bracket, flanged nut
- 2 M5x13 bolt, relay K3 socket, perforated bracket, flanged nut
- 3 Relay K2 socket

Mounting CCL, relay K2 and relay K3

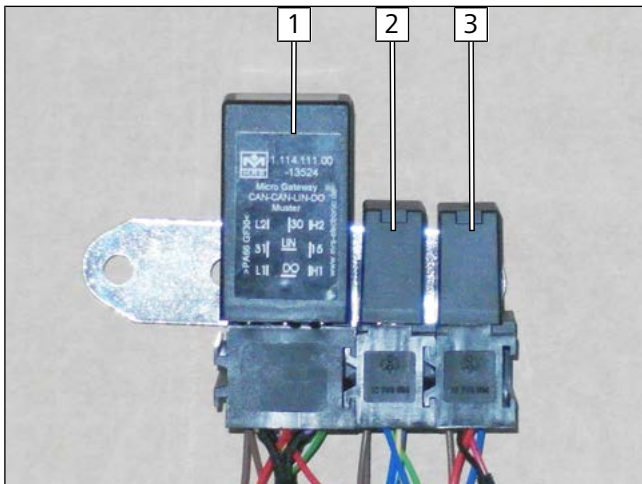


Fig. 27

- 1 CCL
- 2 Relay K2
- 3 Relay K3

Mounting eyelet cable tie

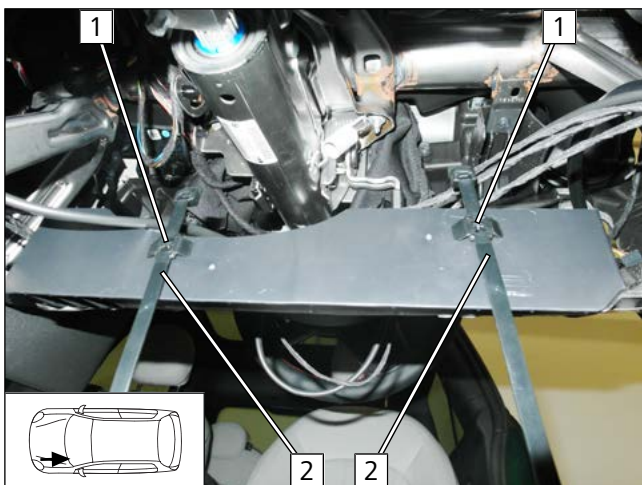


Fig. 28



see also next figure

- Drill a  $\varnothing 6.0$  hole at position 1.
- 2 Eyelet cable tie

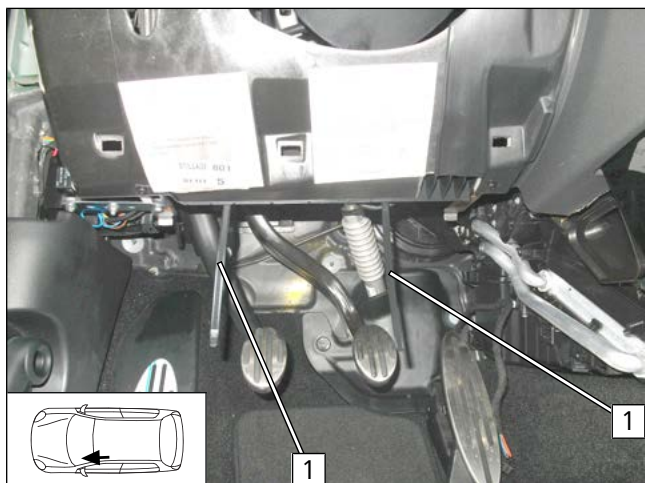


Fig. 29

1 Eyelet cable tie

### Mounting CCL, relay K2 and relay K3 sockets

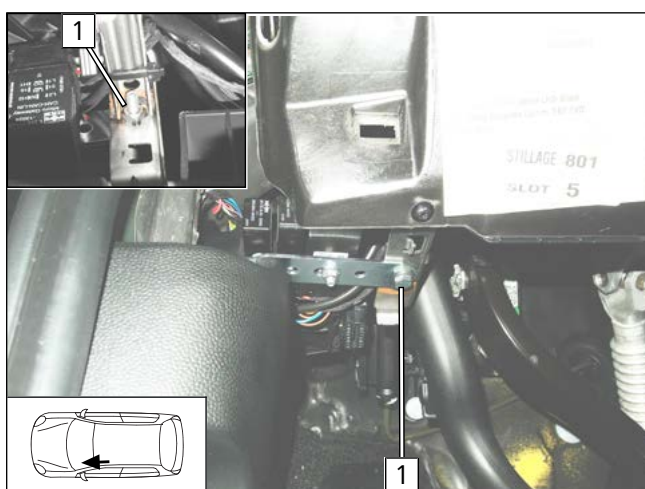


Fig. 30

1 M6x20 bolt, spring lock washer, premounted perforated bracket, original vehicle threaded hole

### Routing wiring harness

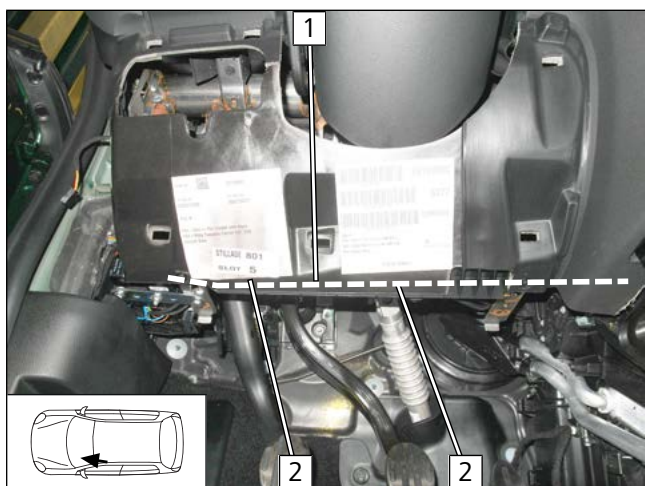


Fig. 31



see also next figure

► Route Plug&Play wiring harness **1** to the centre console and fasten with premounted eyelet cable tie **2**.

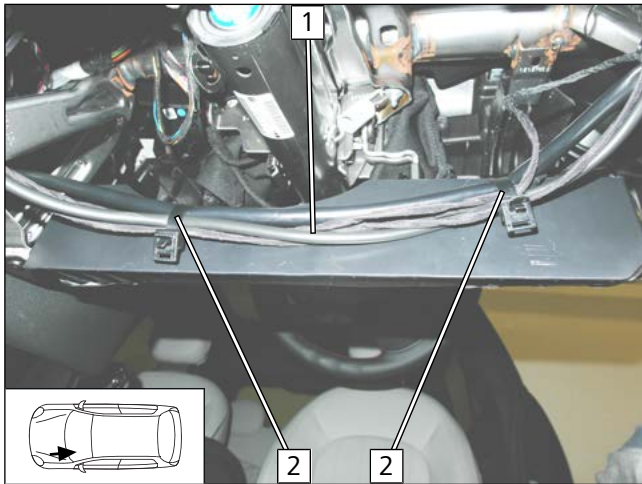


Fig. 32

- 1 Plug&Play wiring harness
- 2 Premounted eyelet cable tie

### Disconnecting 26-pin connector B

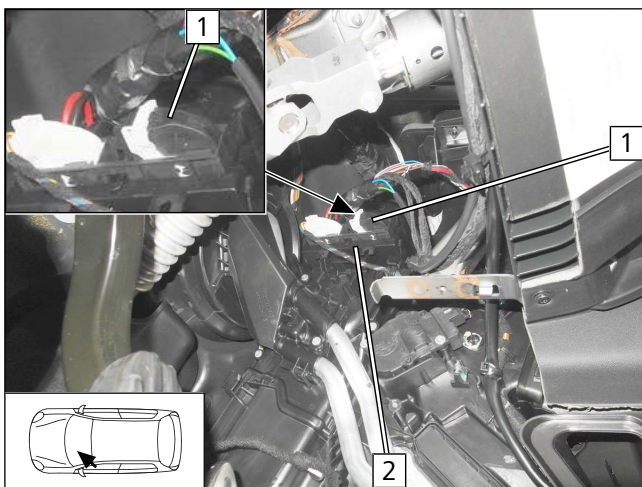


Fig. 33

- ▶ Disconnect 26-pin connector B **1** from A/C control unit **2**.

### Mounting Plug&Play wiring harness

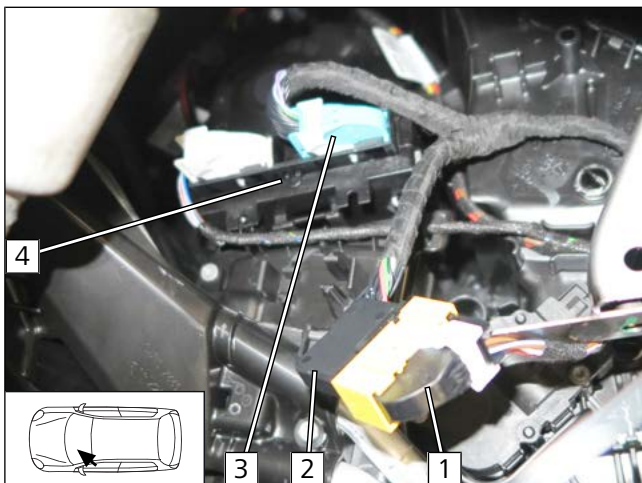


Fig. 34

- ▶ Connect 26-pin A/C control unit connector B **1** with 26-pin male plug E **2** of Plug&Play wiring harness.
- ▶ Connect 26-pin female plug F **3** of Plug&Play wiring harness to control unit **4**.



## Routing 4-pin connecting wire of Plug&Play wiring harness to the front passenger's side

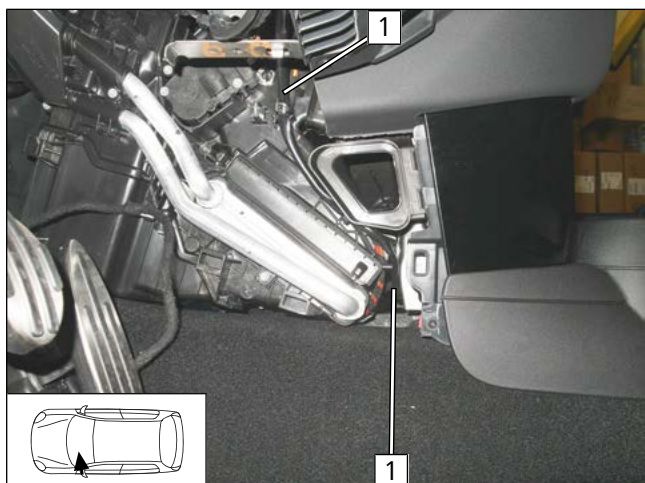


Fig. 35

- 1 4-pin connecting wire of Plug&Play wiring harness

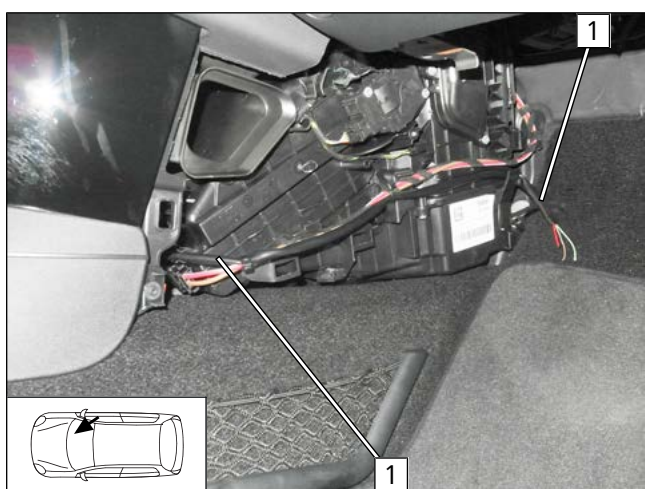


Fig. 36

- 1 4-pin connecting wire of Plug&Play wiring harness

## 7.7 Connecting same colour wires of wiring harnesses, all vehicles

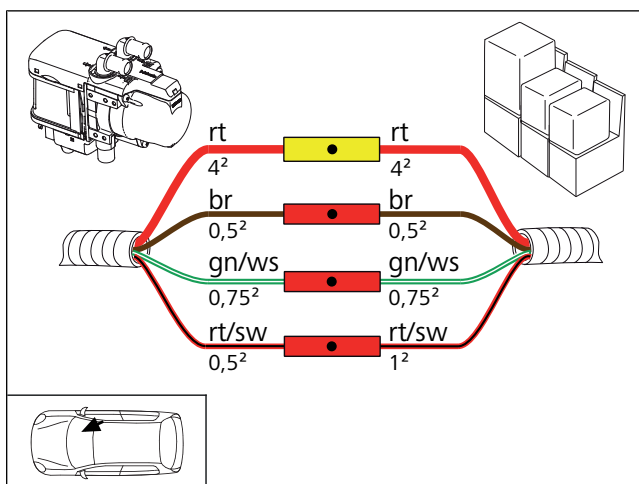


Fig. 37



## 8 Final work



- ▶ Final work is not carried out until the installation of the heater in the vehicle has been completed
- ▶ Check all electrical connections for firm seating
- ▶ Insulate and tie back loose lines







These are the original instructions. The German language is binding.  
You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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## 9 Operating instructions



### Vehicles with passenger compartment monitoring:

Further information can be found in the vehicle operating instructions.

- ▶ Deactivate passenger compartment monitoring for the heating operation



### Notes about the A/C control panel presets

Your vehicle is equipped with a comfort air-conditioning control. As a result, **no** settings are required on the A/C control panel when switching off the vehicle. All necessary presets, such as fan speed, temperature and flap positions are set automatically.



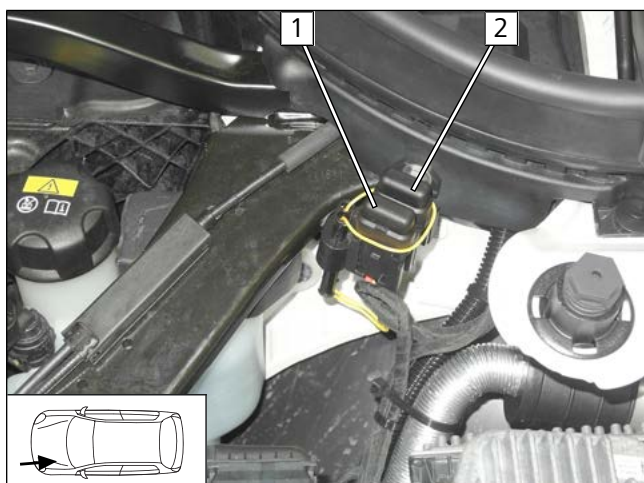
### Notes about the active parking heating mode

The vehicle fan is deactivated when the vehicle is opened and is available again once the ignition is switched on.

After the vehicle is closed again, it can take several minutes for it to be active again.

### 9.1 Installation location of fuses for 2 Series (F45/F46)/X1(F48)/X2(F39)

Fuses in engine compartment



**1** F1 - 20A heater main fuse

**2** F2 - 3A main fuse of passenger compartment

Fig. 38

## 9.2 Installation location of fuses for 1 Series (F20/F21)/2 Series (F22/F23)/3 Series (F30/F31/F34)/4 Series (F32/F36)

Fuses in engine compartment

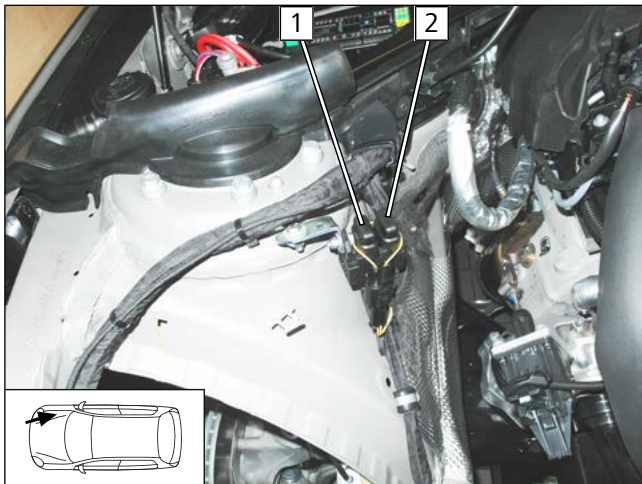


Fig. 39

- 1 F1 - 3A main fuse of passenger compartment
- 2 F2 - 20A heater main fuse

## 9.3 Installation location of fuses for Cooper/One(F56)

Fuses in engine compartment

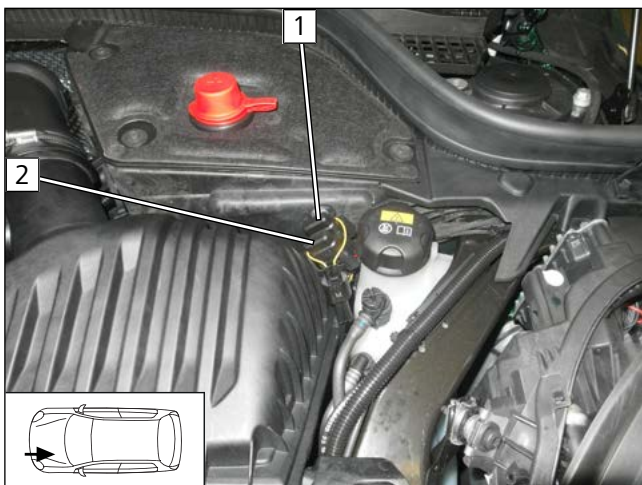


Fig. 40

- 1 F1 - 3A main fuse of passenger compartment
- 2 F2 - 20A heater main fuse