

## H Installation documentation

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

Jeep Compass

Left-hand drive vehicle

Manufacturer	Model	Type	Model year	EG-BE-No. / ABE
Jeep	Compass	MX	from 2017	e11* 2007/46* 4037*...

Validity	Equipment variants	Model
		Compass
Verified equipment variants	Manual air-conditioning	x
	Automatic air-conditioning	x

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# 1 List of abbreviations

CCL CCL GW

KSG Air-conditioning control unit

RSH Relay and fuse holder of passenger compartment

Wire Cable

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## 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 Jeep automatic A/C 2014	1325260E

### 2.3 Validity Notes

This installation documentation applies only in combination with:

Designation	Order number
Installation kit for Jeep Compass 2017 petrol and diesel	1326108_
Installation documentation for Jeep Compass 2017 petrol and diesel	1326107_

### 2.4 Information on total installation time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater.

The total installation time may vary for vehicle equipment other than provided.

### 3 About this document

#### Purpose of the document

This installation documentation is part of the product and contains information for the correct vehicle specific installation of the:


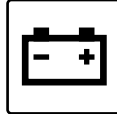


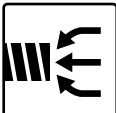



"Webasto Comfort" installation kit

#### Using this document

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







#### Work step identification marks



You will find an identification mark on the outside top corner of the respective page in question to provide you with a quick overview of the individual working steps:

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


#### 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	
Webasto Comfort A/C control	
Webasto Standard A/C control	
Fuel standpipe (e.g. FuelFix)	
Exhaust end fastener (EFIX)	


Combustion air intake silencer	
Spacer bracket (ASH)	


#### Use of symbols

 **DANGER**  
 Type and source of the risk  
 Consequences: Failure to follow the instructions can result in death  
 ▶ Action to protect yourself from the risk.

 **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.

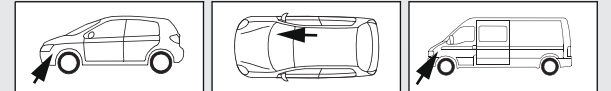
 **CAUTION**  
 Type and source of the risk  
 Consequences: Failure to follow the instructions can lead to minor injuries  
 ▶ Actions to protect yourself against risks.

 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.

 a note on a special technical feature

#### Orientation aid

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

#### Use of highlighting

Highlight	Explanation
✓	Requirements for the necessary action
▶	Necessary action

Highlight	Explanation
⇒	Result of an action
<b>1</b> / <b>12</b> / <b>a1</b> / <b>A</b>	Position numbers for the image descriptions
<b>1 / 12</b>	Position numbers for the image descriptions for electrical wires and wiring harnesses from the installation kit

### 3.1 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.

#### 3.1.1 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).

### 3.2 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.

#### 3.2.1 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.

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## 4 Technical Information

### Dimension specifications

- All dimensions specified in mm

### Tightening torque specifications

- Tighten bolt 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 tab connector 0.14 – 6 mm<sup>2</sup>
- Crimping pliers for cable lugs 0.5 – 10 mm<sup>2</sup>
- Crimping pliers for connector 0.25 – 6 mm<sup>2</sup>
- Torque wrench for 2.0 - 10 Nm
- Webasto Thermo Test Diagnosis with current software

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## 5 Preparing measures

### 5.1 Vehicle preparation



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

- ▶ Remove the side instrument panel trim on the left
- ▶ Remove the front centre tunnel trim on the left
- ▶ Remove the left footwell air duct
- ▶ Remove the accelerator pedal
- ▶ Remove the lower right footwell trim
- ▶ Remove the front centre tunnel trim on the right
- ▶ Remove the fan controller cover



## 6 Installation overview

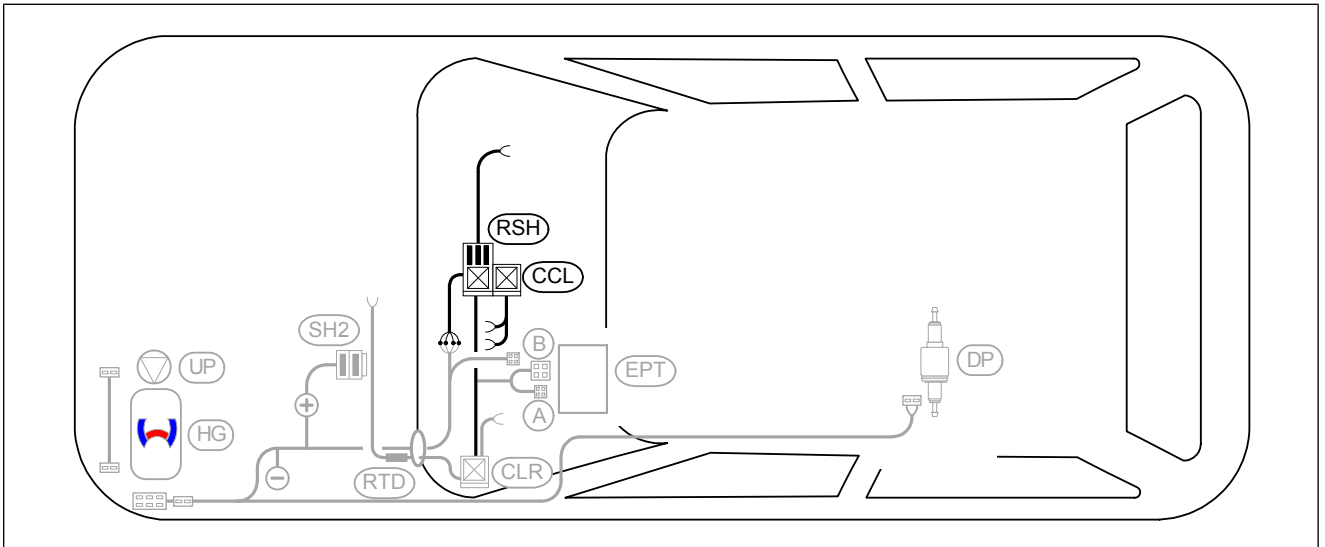


Fig. 1

Legend to installation overview

Abbreviation	Component
CCL	CCL GW
RSH	Relay and fuse holder of passenger compartment



## 7 Electrical system

### 7.1 Electrical system preparation

#### Assigning wires

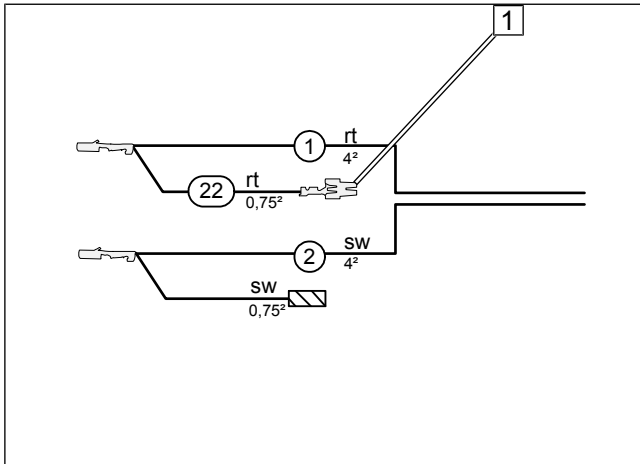


Fig. 2



Wire sections retain their numbering in the entire document.

- 1 Flat spring contact
- 1 Red (rt) wire of fan wiring harness
- 2 Black (sw) wire of fan wiring harness

#### Connecting wires to RSH

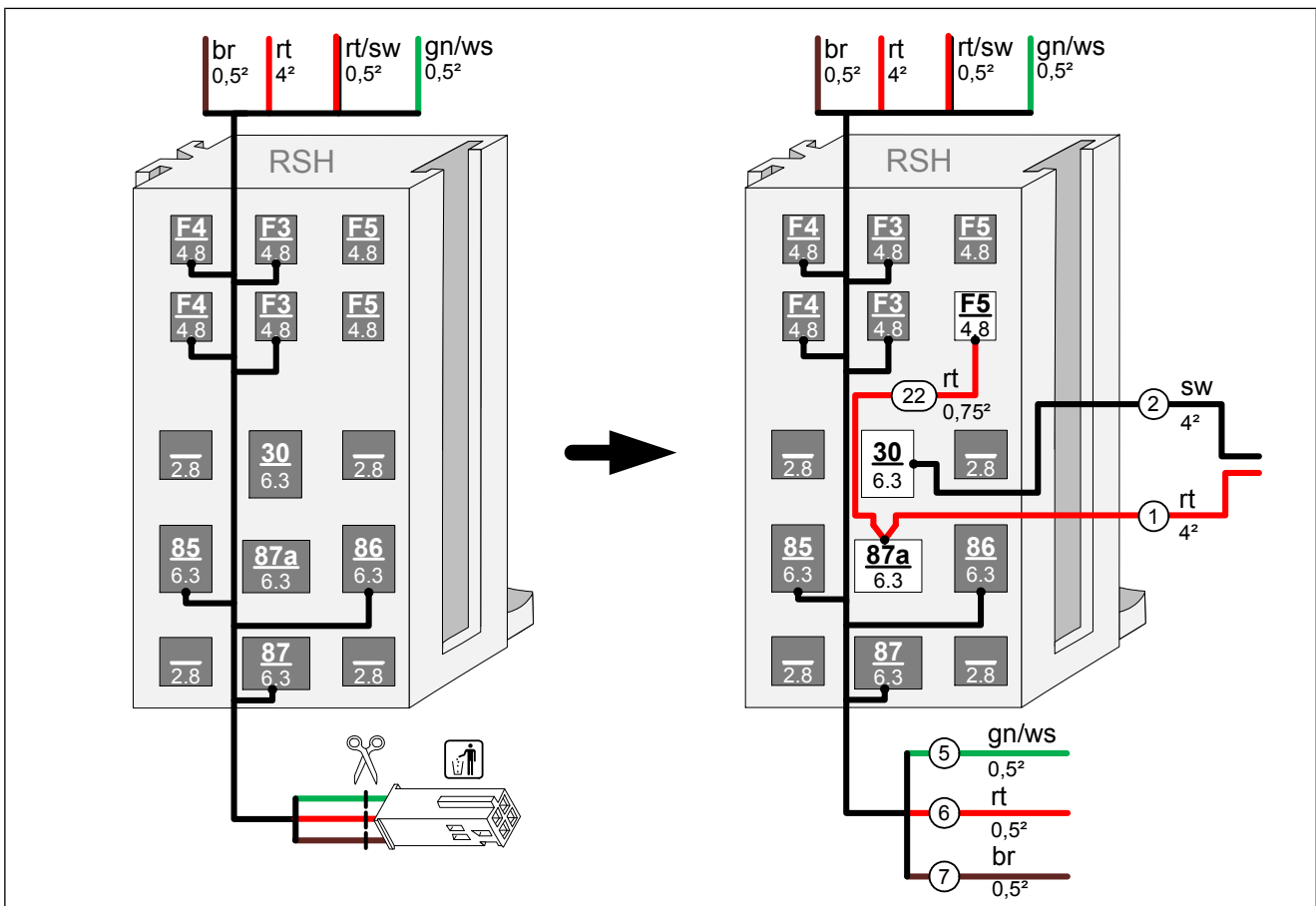


Fig. 3



## Assigning wires of CCL GW wiring harness

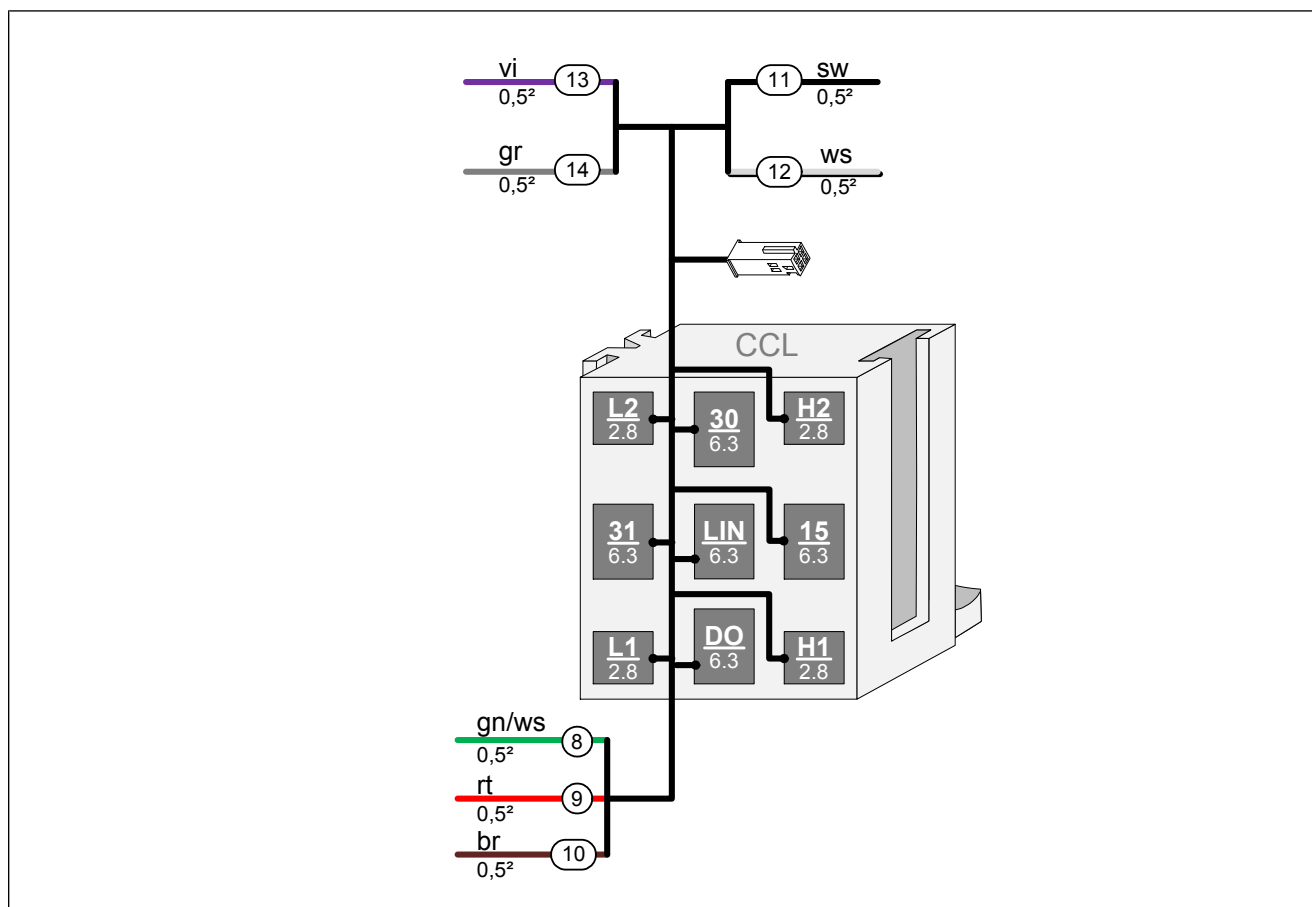


Fig. 4



# Assembling CCL GW and RSH sockets, connecting wires

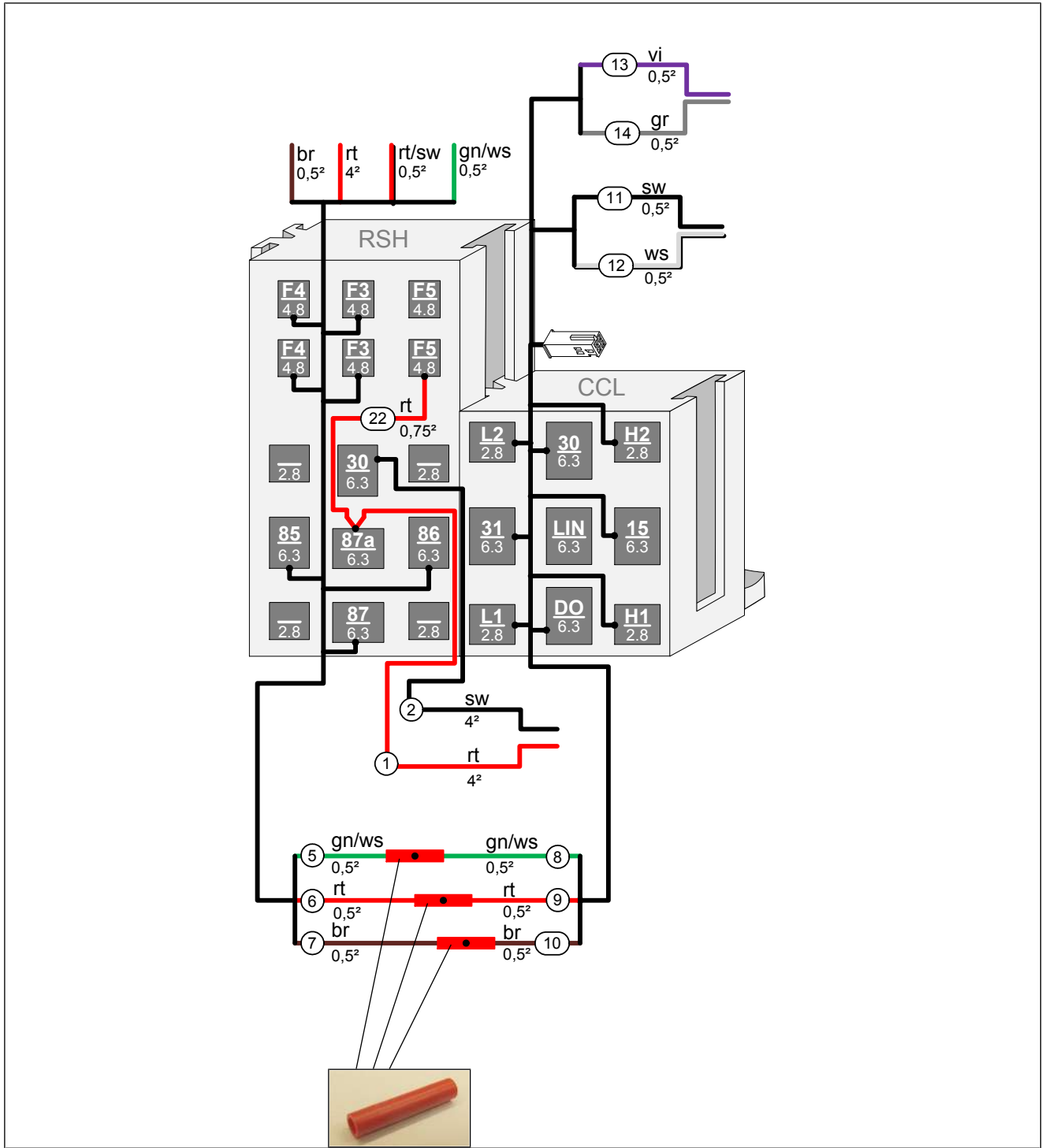


Fig. 5



## 7.2 Wiring diagram

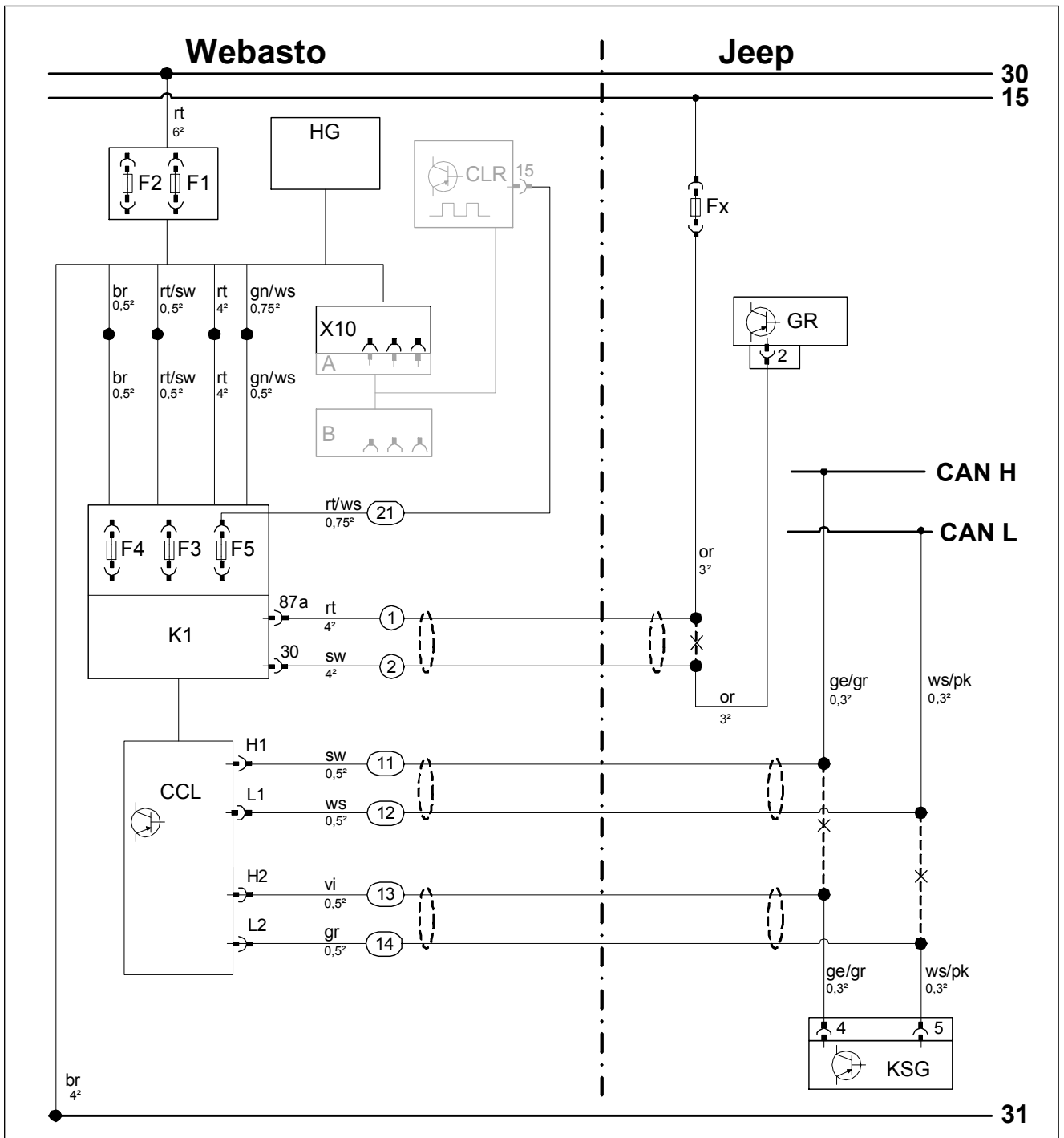


Fig. 6



## Legend to wiring diagram

Vehicle components		Symbols	
Abbreviation	Component	Abbreviation	Designation
Fx	GR fuse	X	Cutting point
GR	Fan controller		
KSG	Air-conditioning control unit		

Webasto components		Cable colours	
Abbreviation	Component	Abbreviation	Colour
A	Connector of CLR module wiring harness	br	brown
B	Socket of CLR module wiring harness	bg	beige
CCL GW	CAN CAN LIN Gateway	dbl	dark blue
CL GW	CAN LIN Gateway	dgn	dark green
CLR	Cold start module	ge	yellow
D1	Diode	gn	green
D2	Diode group	gr	grey
F0	Additional fuse for power supply	hbl	light blue
F1	Heater main fuse	hgn	light green
F2	Passenger compartment fan controller main fuse	or	orange
F3	Heater control fuse	pk	pink
F4	Fan controller fuse	rt	red
F5	Additional fuse	sw	black
HG	Heater TT-Evo	vi	violet
K1	Relay K1	ws	white
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	4-pin socket of heater control		



## 7.3 Fan controller

### Connecting wire 21

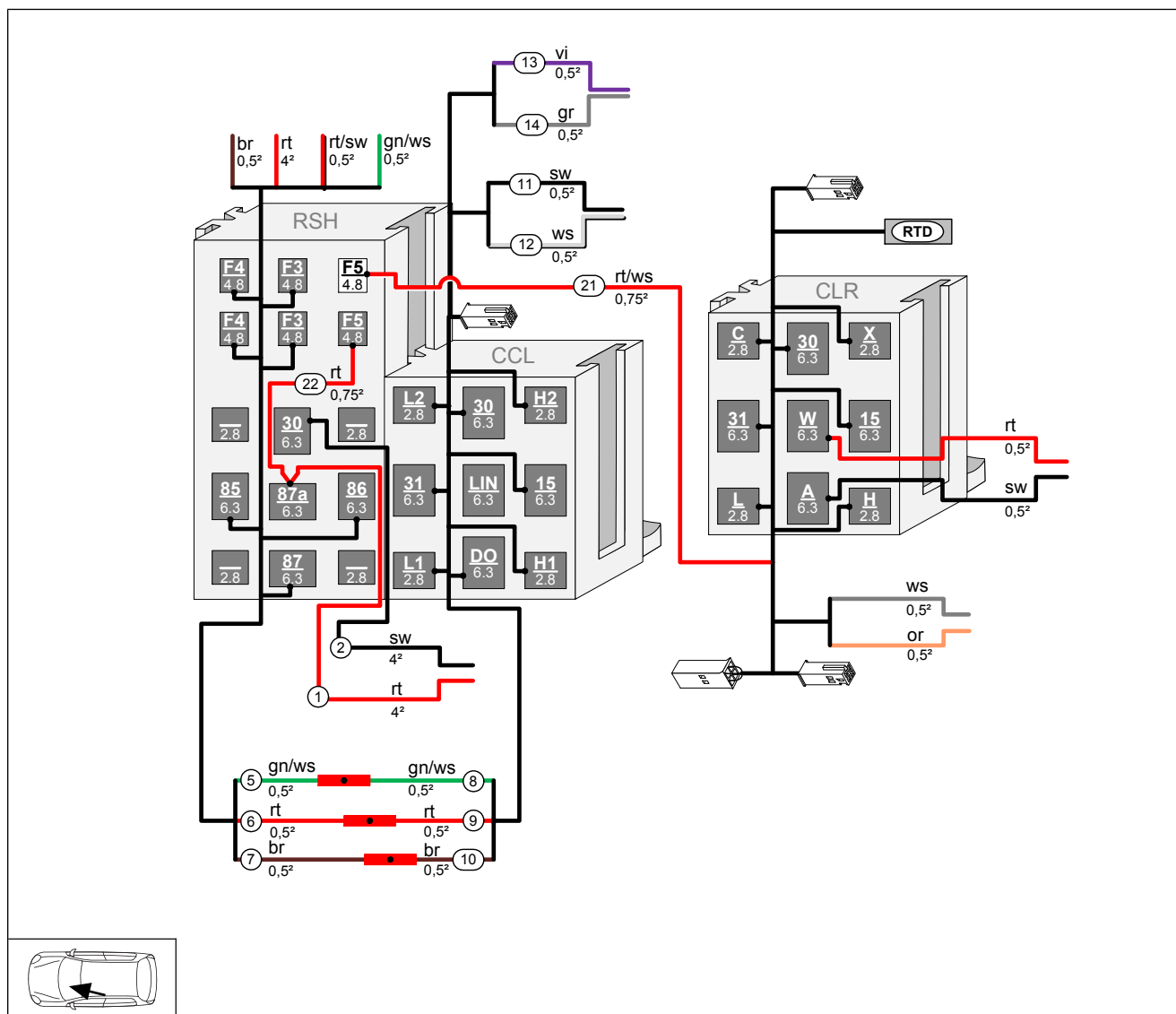


Fig. 7

### Preparing RSH and CCL GW

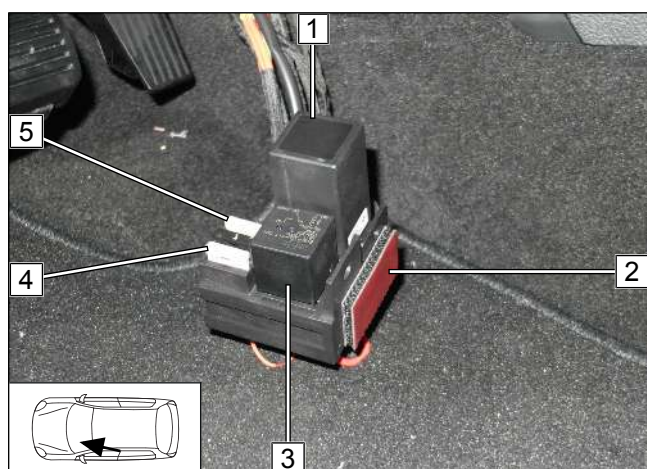
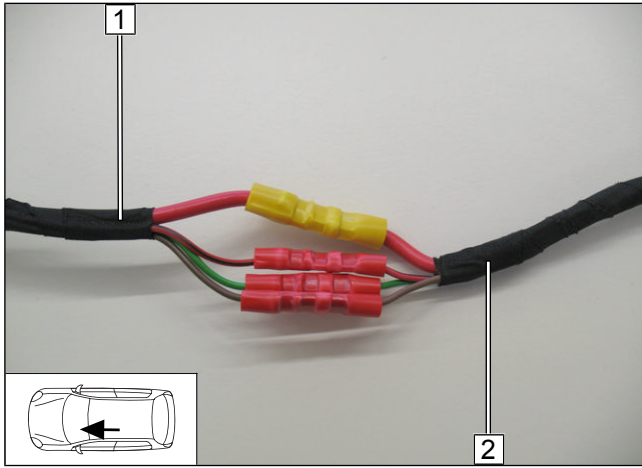


Fig. 8

- 1 CCL GW
- 2 Double-sided adhesive tape
- 3 Relay K1
- 4 3A fuse F5
- 5 25A fuse F4



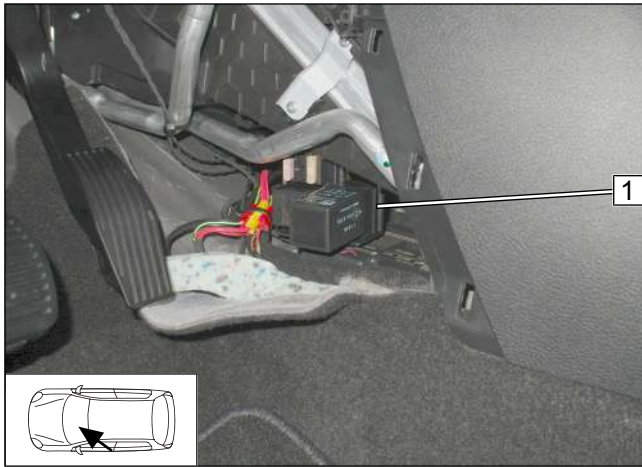
### Connecting same colour wires of wiring harnesses



- 1 RSH wiring harness
- 2 Heater wiring harness

Fig. 9

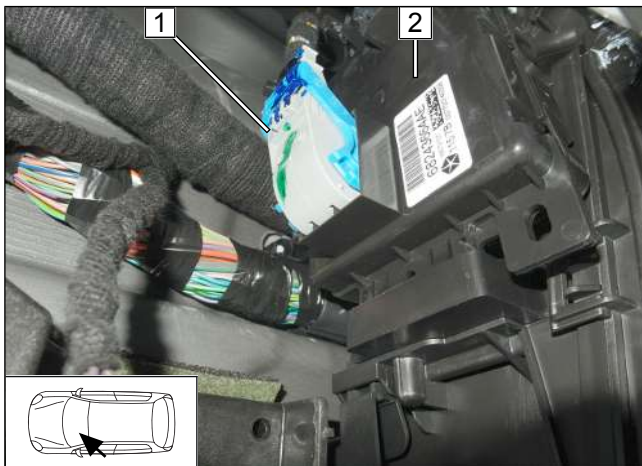
### Mounting RSH and CCL GW



► Affix RSH and CCL GW **1** as shown.

Fig. 10

### Position of KSG connector



- 1 36-pin KSG connector
- 2 KSG

Fig. 11





## View of KSG connector

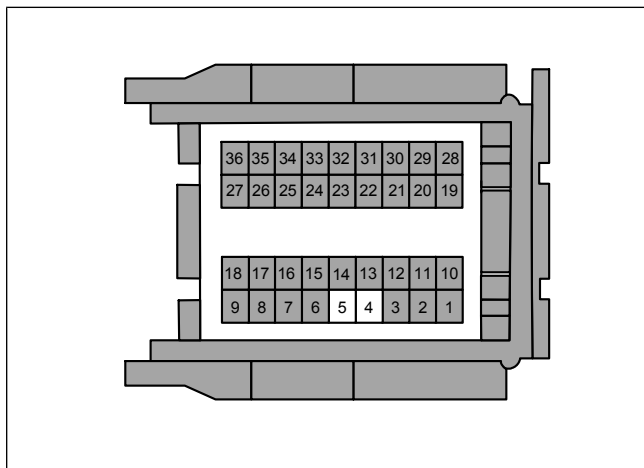


Fig. 12

► KSG connector assignment on wiring side.

## Connecting wires 13 and 14

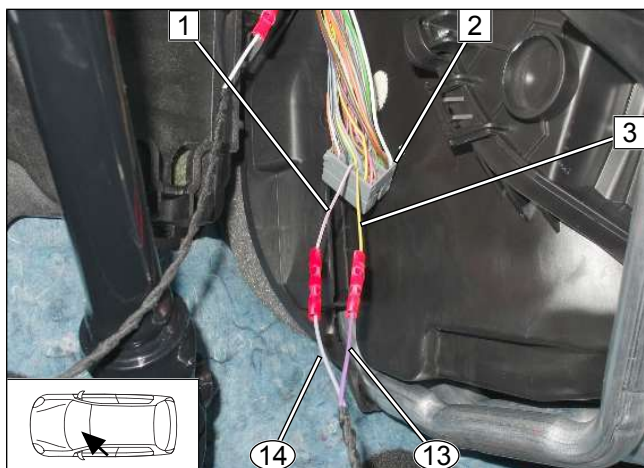


Fig. 13

- 1 White/pink (ws/pk) wire of 36-pin KSG connector / pin 5
- 2 Removed 36-pin KSG connector
- 3 Yellow/grey (ge/gr) 36-pin wire of KSG connector / pin 4
- 13 Violet (vi) wire of CCL GW/ H2
- 14 Grey (gr) wire of CCL GW/ L2

## Connecting wires 11 and 12

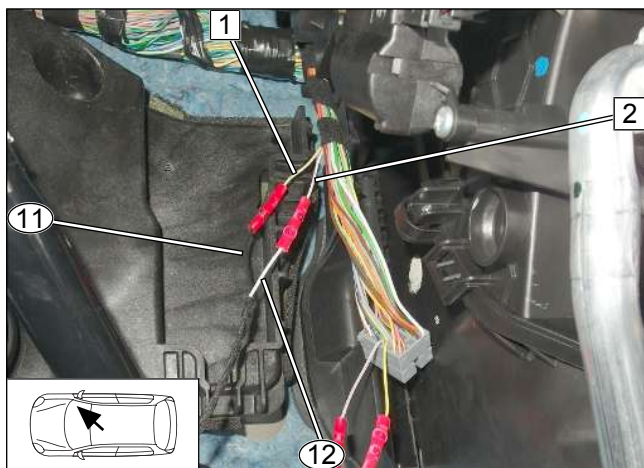


Fig. 14

- 1 Yellow/grey (ge/gr) wire of CAN H
- 2 White/pink ws/pk wire of CAN L
- 11 Black (sw) wire of CCL GW/ H1
- 12 White (ws) wire of CCL GW/ L1



## Removing cover

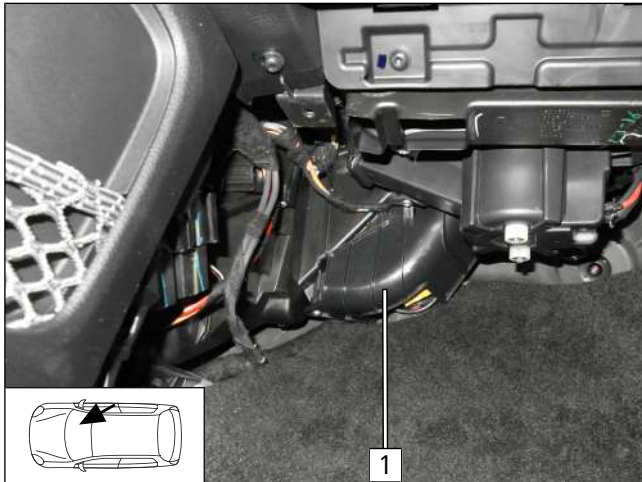


Fig. 15

- 1 GR cover

## Connecting GR

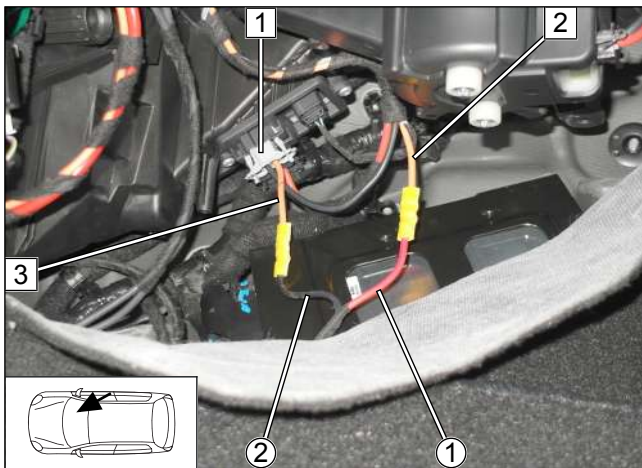


Fig. 16

- 1 Grey (gr) connector of GR
- 2 Orange (or) wire of fuse Fx
- 3 Orange (or) wire of GR connector pin 2
- 1 Red (rt) wire of K1/87a fan wiring harness
- 2 Black (sw) wire of K1/30 fan wiring harness



## 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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[WWW.WEBASTO.COM](http://WWW.WEBASTO.COM)

## 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



### Information regarding the heating time:

We recommend matching the heating time to the driving time (heating time = driving time)

**Example:** for a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.



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

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 presettings, such as fan speed, temperature and flap positions are set automatically.



### Notes about the active parking heating mode

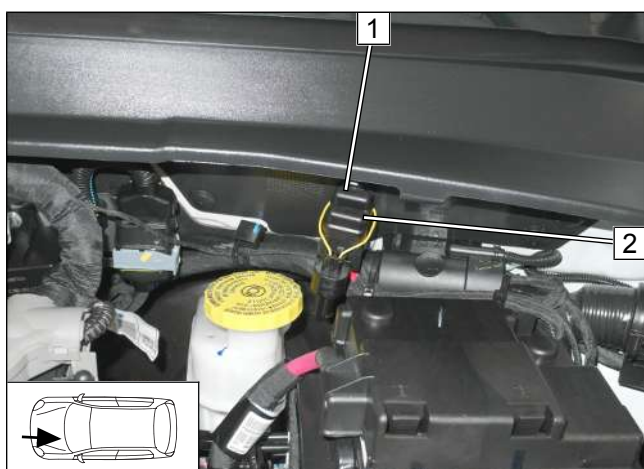
The fan controller is deactivated when the vehicle is opened.

It is available again one 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

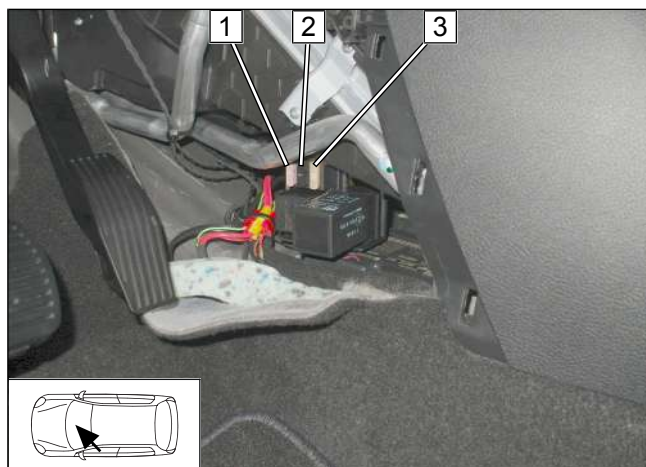
#### Fuses in engine compartment



- 1 F1 - 30A passenger compartment main fuse
- 2 F2 - 20A heater main fuse

Fig. 17

## Fuses in passenger compartment



- 1** F5 – 3A additional fuse
- 2** F3 - 1A control element fuse
- 3** F4 - 25A fan controller fuse

*Fig. 18*