





Installation documentation

Climate Control "Webasto Comfort" for water heater Thermo Top Evo

BMW X3 / X4 / 1 Series / 3 Series / 5 Series

Left-hand drive vehicle

Manufacturer	Model	Туре	Model year	EG-BE-No. / ABE
BMW	X3	G01	from 2018	e1* 2007/46* 1797*
BMW	X4	G01	from 2018	e1* 2007/46* 1881*
BMW	1 Series	F40	from 2020	e1* 2007/46* 2018*
BMW	3 Series	G20	from 2019	e1* 2007/46* 1947*
BMW	3 Series	G21	from 2019	e1* 2007/46* 2017*
BMW	5 Series	G30 / G31	from 2018	e1* 2007/46* 1688*

Validity	Equipment variants	Model				
		Х3	X4	1 Series	3 Series	5 Series
Verified	2 zone automatic air-conditioning			Х		Х
equipment vari- ants	3 zone automatic air-conditioning	Х	Х		Х	

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1 List of abbreviations

CCL CCL GW

Fig. Figure

GW Gateway

HG Heater

K2 Additional relay

K3 Additional relay

K4 Additional relay

K5 Additional relay

KSG Air-conditioning control unit

SH2 Engine compartment fuse holder for F1/F2

Wire Cable

BMW X3 / X4 / 1 Series / 3 Series / 5 Series

2 Installation notes

2.1 Information on Validity

This installation documentation applies to vehicles listed on page 1, 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 II' A/C control kit	
for BMW X3 / X4 / 1 Series / 3 Series / 5 Series	1326680B

2.3 Validity Notes

This installation documentation applies only in combination with:

Designation	Order number
Installation kit for BMW X3 / X4 2018 diesel	1326600_
Installation documentation for BMW X3 / X4 2018 diesel	1326601_

or

Designation	Order number
Installation kit for BMW X1 (F48) 2019 / X2 (F39) 2018 / 1 Series (F40) P 2020 / 2 Series (F45) 2019 petrol	1326525_
Installation documentation for BMW 1 Series (F40) 2020 petrol	1328192_

or

Designation	Order number
Installation kit for BMW 1 Series (F40) 2020 diesel / 2 Series Active Tourer (F45) 2015 / Gran Tourer (F46) 2015 / X1 (F48) 2015 / X2 (F39) 2018 petrol and diesel	1324379_
Installation documentation for BMW 1 Series (F40) 2020 diesel / 2 Series Active Tourer (F45) 2015 / Gran Tourer (F46) 2015 / X1 (F48) 2015 / X2 (F39) 2018 petrol and diesel	1324380_

Designation	Order number
Installation kit for BMW 3 Series 2019 petrol and diesel	1327568_
Installation documentation for BMW 3 Series 2019 petrol and diesel	1327569_

or

Designation	Order number
Installation kit for BMW 5 Series 2018 diesel	1326676_
Installation documentation for BMW 5 Series 2018 diesel	1326677_

or

Designation	Order number
Installation kit for BMW 5 Series 2018 petrol	1326674_
Installation documentation for BMW 5 Series 2018 diesel	1326675_

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.

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3.4 Using this document

Before installing, 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	K
Vehicle-specific installation documentation of the cold start kit	M
Webasto Comfort A/C control	
Webasto Standard A/C control	G
Tank extracting device (e.g. FuelFix)	F
Exhaust end fastener (EFIX)	E
Combustion air intake silencer	
Spacer bracket (ASH)	S

i

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 sys- tem	High-voltage	Coolant
**	-		
Combustion air	Fuel	Exhaust	Software
III (₩	

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.



6

CAUTION

Type and source of the risk

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

Actions to protect yourself against risks.

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	
✓	Action	
>	Necessary action	
\Rightarrow	Result of an action	
1 / 12 / a1	Position numbers for the image descriptions	
1 / 12 / A	Position numbers for the image description for electrical wires and components as well as 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-theart-technology

Necessary special tools

- Automatic wire stripper 0.2 6 mm²
- Crimping pliers for cable lugs 0.5 10 mm²
- Crimping pliers for male connector 0.14 6 mm²
- Crimping pliers for connector 0.25 6 mm²
- Torque wrench for 2.0 10 Nm
- Deep-hole marker

BMW X3 / X4 / 1 Series / 3 Series / 5 Series

5 Installation overview

X3 / X4

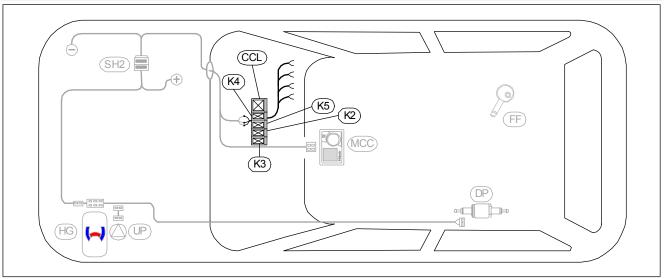


Fig. 1

1 Series

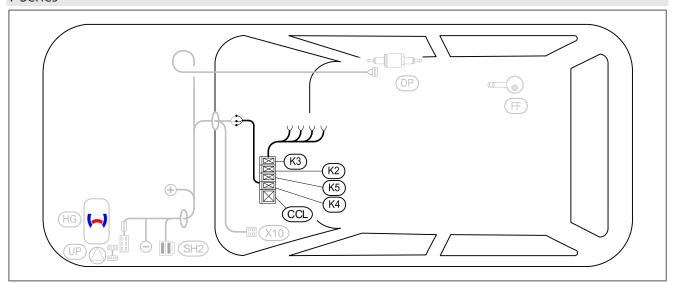


Fig. 2

1326681D_EN

3 Series

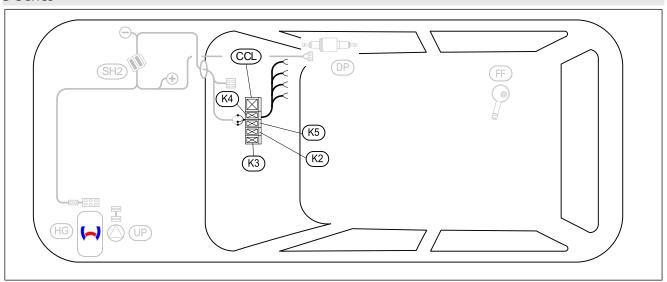


Fig. 3

5 Series

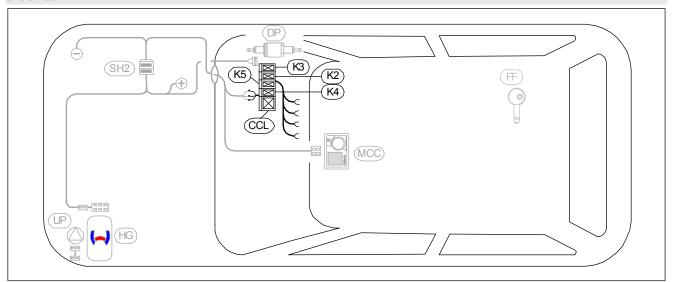


Fig. 4

Legend to installation overview

Abbreviation	Component
CCL	CCL GW
K2	K2 additional relay
K3	K3 additional relay
K4	K4 additional relay
K5	K5 additional relay

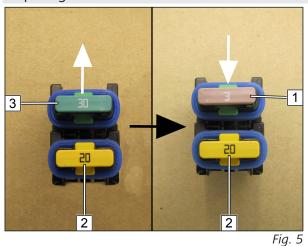
BMW X3 / X4 / 1 Series / 3 Series / 5 Series



6 Electrical system

6.1 Electrical system preparation

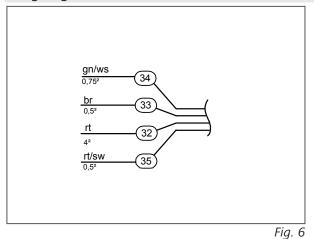
Preparing SH2



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

2 Fuse F1: 20A

Assigning wires





Wire sections retain their numbering in the entire document.

- **32**) Red (rt) wire of heater wiring harness F2
- 33 Brown (br) wire of heater wiring harness, earth 31
- Green/white (gn/ws) wire of heater wiring harness X1/5
- **35** Red/black (rt/sw) wire of heater wiring harness X10

Preparing / assigning wires

10

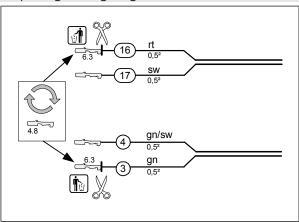
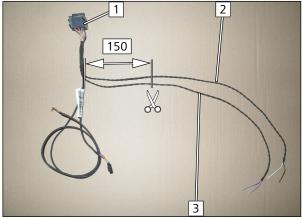


Fig. 7



Preparing CCL



- ► Cut wiring harness 2 with black and white (sw/ws) wire and wiring harness 3 with violet and grey (vi/gr) as shown in Fig..
- ► Remove approximately 5cm of wiring harness wrapping from all interfaces.
 - 1 CCL socket

Fig. 8

Assigning wires

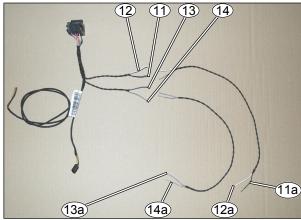


Fig. 9

- 11) Black (sw) wire
- 11a Black (sw) wire
 - (12) White (ws) wire
- 12a White (ws) wire
 - (13) Violet (vi) wire
- 13a Violet (vi) wire
 - 14 Grey (gr) wire
- 14a Grey (gr) wire

Preparing CCL wires

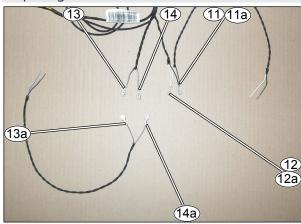


Fig. 10

- ► Crimp 4.8 female connector on wires **11** and **11a**.
- ► Crimp 4.8 female connector on wires **12** and **12a**.
- ► Crimp 6.3 female connector on wires **13**, **14**, **13a** and **14a**.



Preparing relays K4 and K5

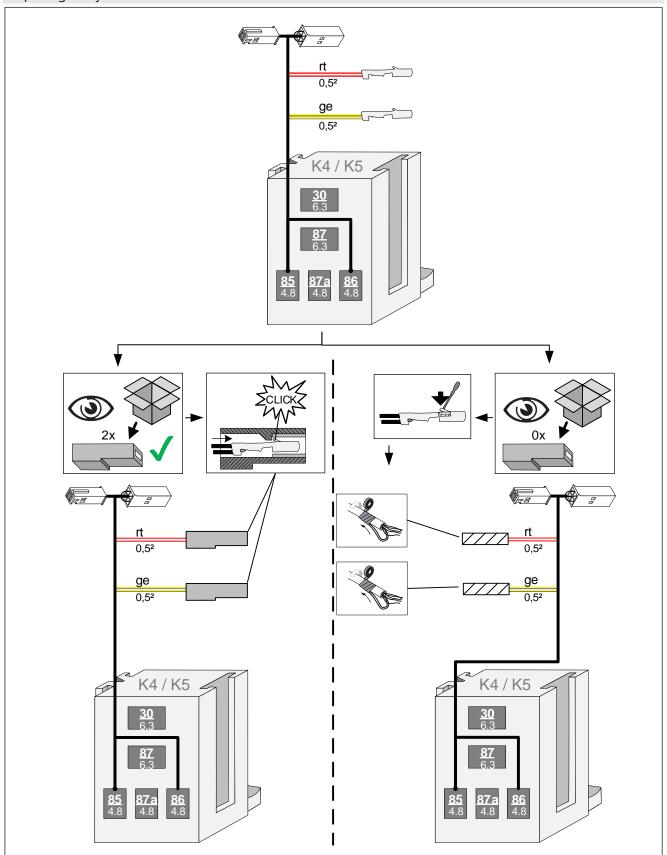


Fig. 11



Assembling / preparing CCL socket, K4 and K5 relay

- ► Mounting wires
- ► Connecting connectors and sockets

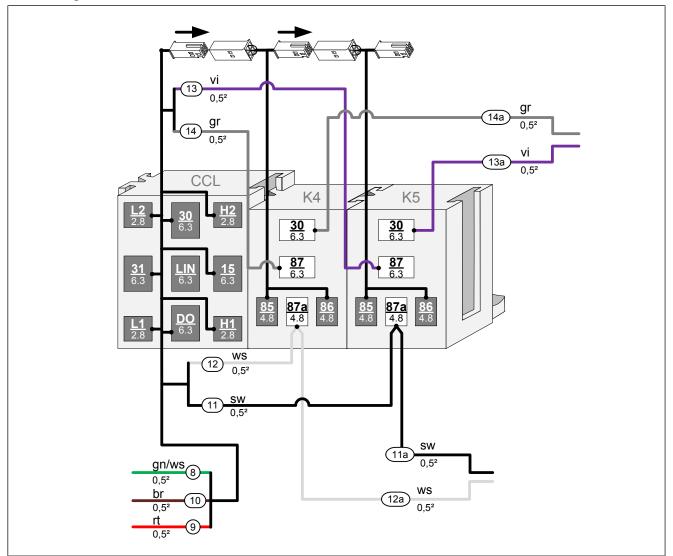


Fig. 12



Preparing relay K2, connecting wires

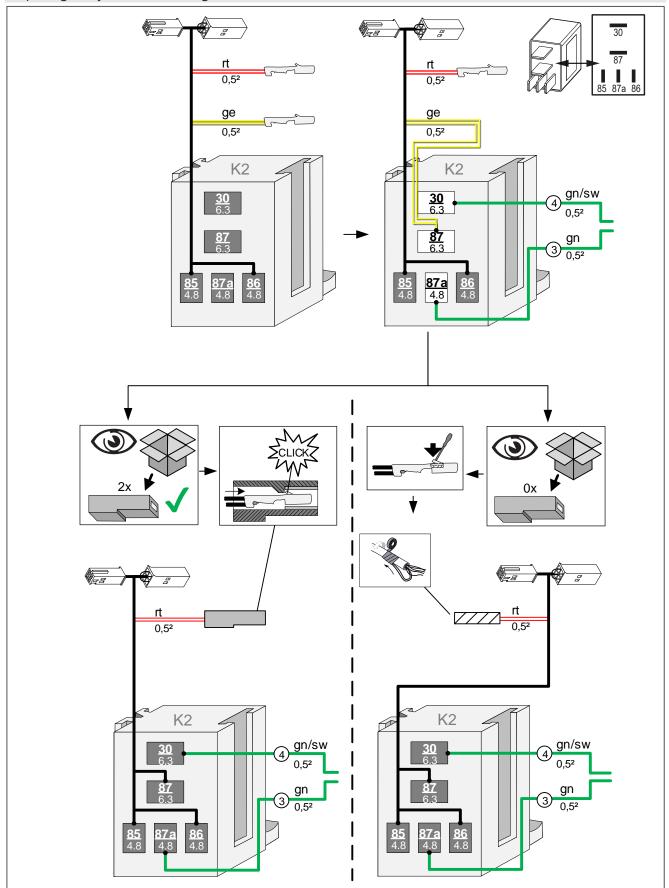


Fig. 13



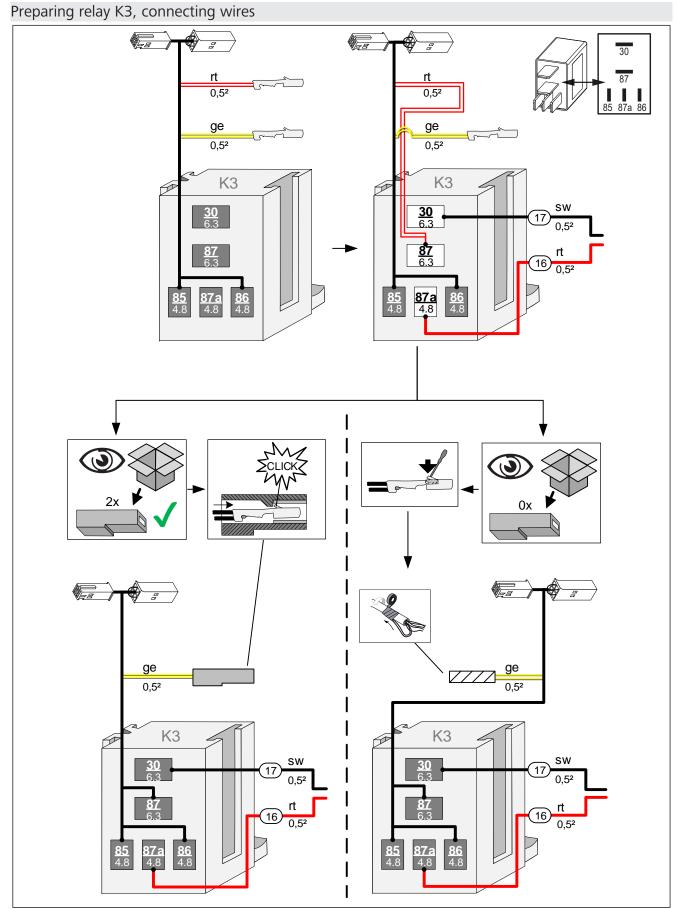


Fig. 14



Assembling CCL, relay K4, K5, K2 and K3 sockets

► Connect connectors and sockets.

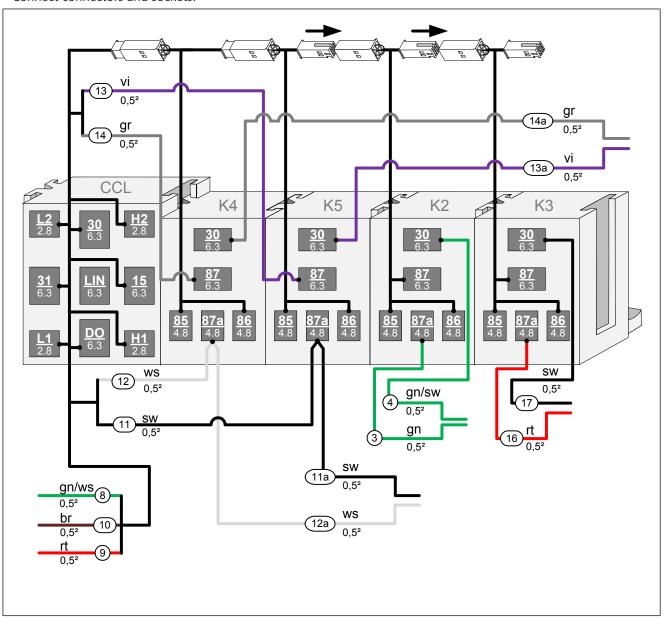


Fig. 15

Installing perforated bracket

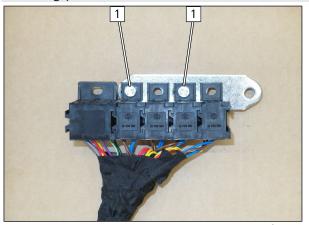


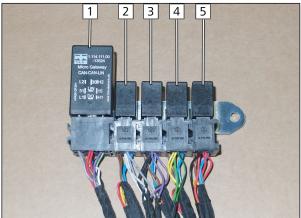
Fig. 16

1 M5x12 bolt, premounted socket, perforated bracket, flanged nut

BMW X3 / X4 / 1 Series / 3 Series / 5 Series



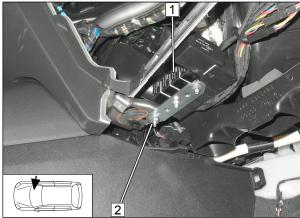
Mounting CCL and relay



- 1 CCL
- 2 Relay K4
- **3** Relay K5
- 4 Relay K2
- **5** Relay K3

Fig. 17

Mounting relay block - X3 / X4 / 3 Series



Fia. 18

- 1 Premounted relay
- 2 Original vehicle stud bolt, perforated bracket, flanged nut

Mounting relay block – 5 Series

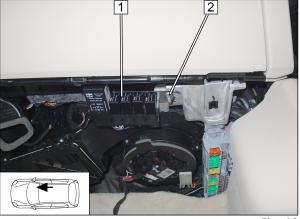
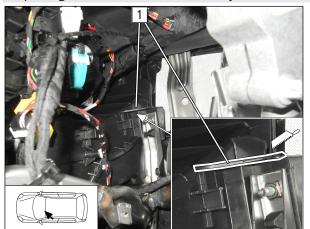


Fig. 19

- 1 Premounted relay
- 2 Original vehicle stud bolt, perforated bracket, flanged nut



Preparing installation area for relay block – 1 Series



▶ Remove plastic edge 1 in marked area.

Fig. 20

Mounting relay block

18

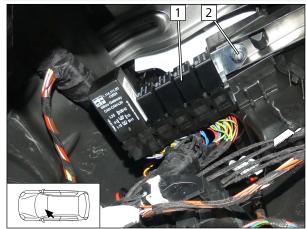


Fig. 21

- 1 Premounted relay
- 2 Original vehicle bolt, perforated bracket, flanged nut



Connecting HG wiring harness to CCL wiring harness in passenger compartment



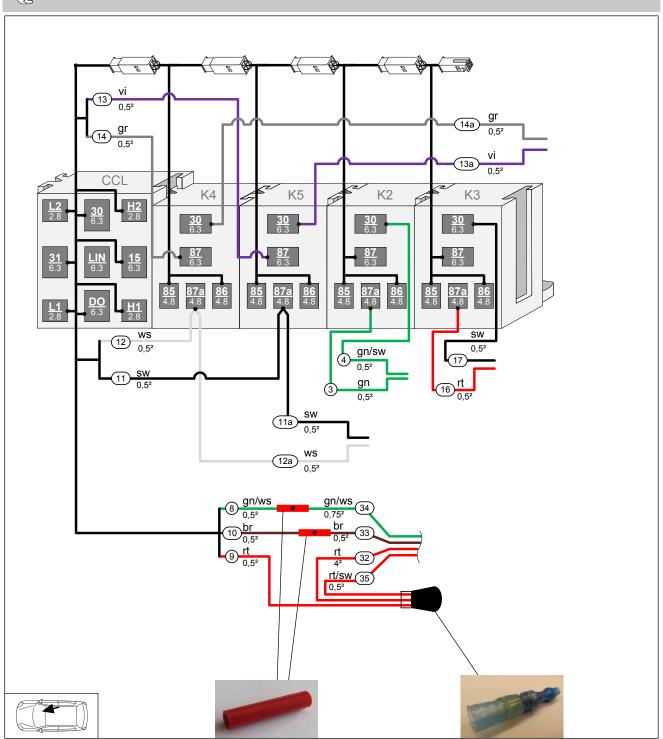


Fig. 22



6.2 System wiring diagram part 1

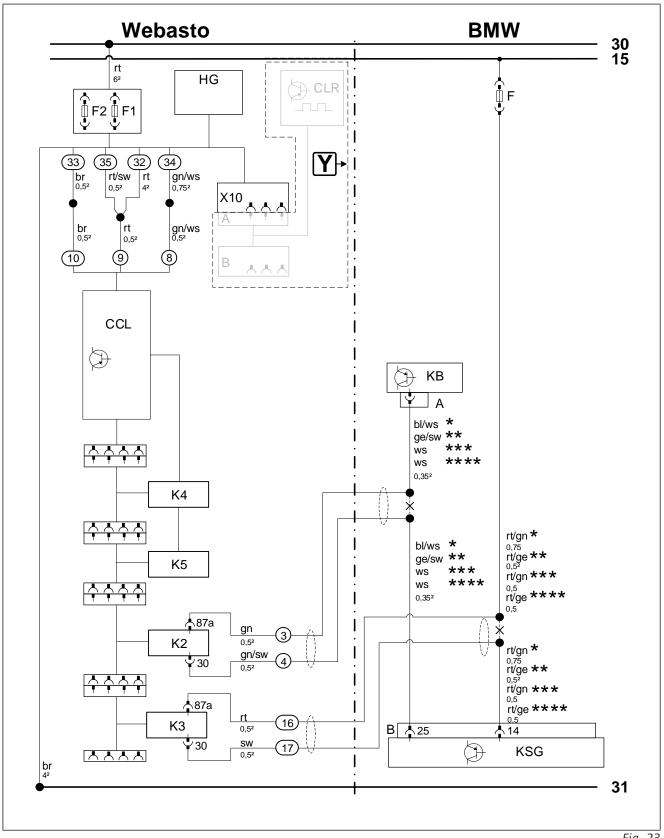


Fig. 23



Legend to wiring diagram



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

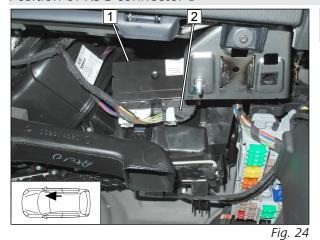
Vehicle components			Symbols	
Abbreviation	Component	Abbreviation	Designation	
F	7.5A KSG fuse	X	Cutting point	
КВ	A/C control panel	*	5 Series	
А	KB connector	**	X3 / X4	
KSG	Air-conditioning control unit	***	3 Series	
В	26-pin KSG connector	***	1 Series	
		Y	Only available with 5 Series	

Webasto components			Cable colours	
Abbreviation	Component	Abbreviation	Colour	
A	Male plug for CLR module wiring harness	bg	beige	
В	Female plug for CLR module wiring harness	bl	blue	
С	Male plug for adapter wiring harness	br	brown	
D	Female plug for adapter wiring harness	dbl	dark blue	
Е	Male plug for Plug&Play wiring harness	dgn	dark green	
F	Female plug for Plug&Play wiring harness	ge	yellow	
CCL GW	Micro Gateway CAN CAN LIN	gn	green	
CL GW	Micro SPS CAN / WBus (Gateway CAN LIN)	gr	grey	
CLR	CAN LIN Rxx (cold start module)	hbl	light blue	
D1	Diode	hgn	light green	
D2	Diode group	la	salmon	
F0	Additional fuse for power supply	or	orange	
F1	Heater main fuse	pk	pink	
F2	Passenger compartment fan controller main fuse	ro	Pink	
F3	Control element fuse	rt	red	
F4	Fan controller fuse	sw	black	
F5	Additional fuse	vi	violet	
HG	Heater TT-Evo	ws	white	
K1	Relay K1			
K2	Relay K2			
K3	Relay K3			
LA	Power adapter			
LIN GW	LIN Gateway			
MV	Solenoid valve			
PWM GW	LIN Gateway / PWM (pulse width modulator)			
RSH	Relay and fuse holder of passenger compartment			
RTD	Temperature sensor			
X10	Female plug for control element			



6.3 Fan controller part 1

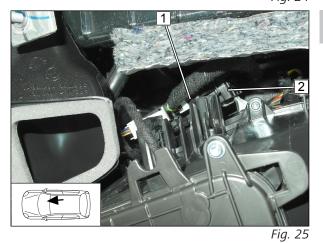
Position of KSG connector B





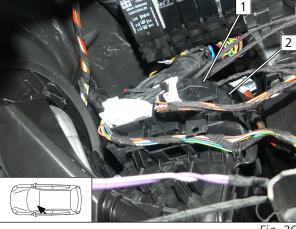
X3 / X4 / 3 Series

- 1 KSG
- 2 26-pin, black KSG connector B



5 Series

- 1 26-pin, black KSG connector B
- **2** KSG



22



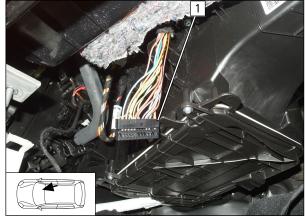
- 1 26-pin, black KSG connector B
- 2 KSG

Fig. 26

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View of KSG connector





Applies to all vehicles; Fig. shows BMW 5 Series

1 Removed 26-pin KSG connector B

Fig. 27

Connecting wires 3 and 4

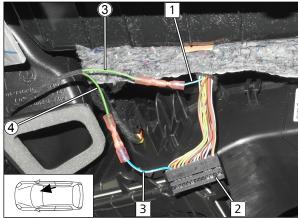


Fig. 28



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

- 1 Wire (cable colour according to system wiring diagram) of KB connector A
- 2 26-pin KSG connector
- **3** Wire (cable colour according to system wiring diagram) of KSG connector B / pin 25
- 3 Green (gn) wire of K2/87a from A/C control wiring harness
- ④ Green/black (gn/sw) wire of K2/30 from A/C control wiring harness

Connecting wires 16 and 17

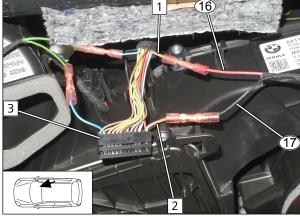


Fig. 29

- 1 Wire (cable colour according to system wiring diagram) of fuse F
- 2 Wire (cable colour according to system wiring diagram) of KSG connector B / pin 14
- **3** 26-pin KSG connector
- **16** Red (rt) wire of K3/87a from power supply wiring harness
- 17 Black (sw) wire of K3/30 from power supply wiring harness



6.4 System wiring diagram part 2

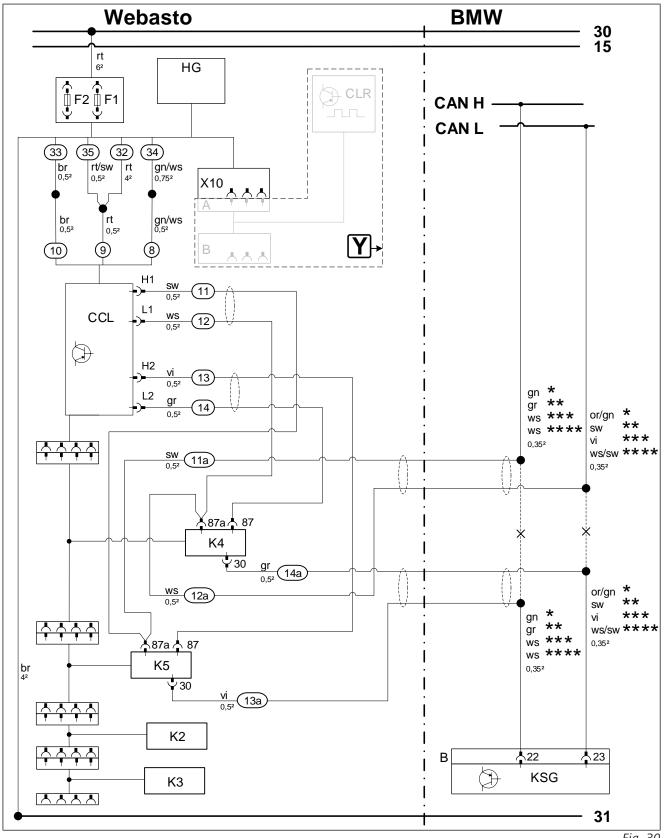


Fig. 30



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
KSG	Air-conditioning control unit	X	Cutting point
В	26-pin KSG connector	*	5 Series
		**	X3 / X4
		***	3 Series
		***	1 Series
		Y	Only available with 5 Series

Webasto components			Cable colours	
Abbreviation	Component	Abbreviation	Colour	
А	Male plug for CLR module wiring harness	bg	beige	
В	Female plug for CLR module wiring harness	bl	blue	
С	Male plug for adapter wiring harness	br	brown	
D	Female plug for adapter wiring harness	dbl	dark blue	
Е	Male plug for Plug&Play wiring harness	dgn	dark green	
F	Female plug for Plug&Play wiring harness	ge	yellow	
CCL GW	Micro Gateway CAN CAN LIN	gn	green	
CL GW	Micro SPS CAN / WBus (Gateway CAN LIN)	gr	grey	
CLR	CAN LIN Rxx (cold start module)	hbl	light blue	
D1	Diode	hgn	light green	
D2	Diode group	la	salmon	
F0	Additional fuse for power supply	or	orange	
F1	Heater main fuse	pk	pink	
F2	Passenger compartment fan controller main fuse	ro	Pink	
F3	Control element fuse	rt	red	
F4	Fan controller fuse	sw	black	
F5	Additional fuse	vi	violet	
HG	Heater TT-Evo	WS	white	
K1	Relay K1			
K2	Relay K2			
K3	Relay K3			
LA	Power adapter			
LIN GW	LIN Gateway			
MV	Solenoid valve			
PWM GW	LIN Gateway / PWM (pulse width modulator)			
RSH	Relay and fuse holder of passenger compartment			
RTD	Temperature sensor			
X10	Female plug for control element			



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6.5 Fan controller part 2

Connecting wires (13a) and (14a)

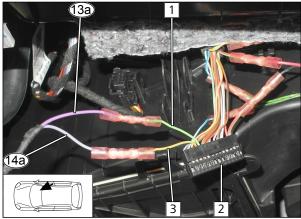


Fig. 31

- 1 Wire (cable colour according to system wiring diagram) of connector B / pin 22
- **2** 26-pin KSG connector
- 3 Wire (cable colour according to system wiring diagram) of connector B / pin 23
- **13a** Violet (vi) wire of K5/30 from CCL wiring harness
- (14a) Grey (gr) wire of K4/30 from CCL wiring harness

Connecting wires (11a) and (12a)

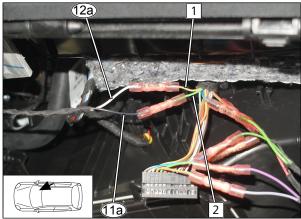


Fig. 32

- 1 Wire (cable colour according to system wiring diagram) of CAN-L
- **2** Wire (cable colour according to system wiring diagram) of CAN-H
- (11a) Black (sw) wire of CCL / H1 / K5/87a
- **12a** White (ws) wire of CCL / L1 / K4/87a

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7 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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Technical Extranet: https://dealers.webasto.com



WWW.WEBASTO.COM



X3 / X4 operating instructions 8



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 switchon time of 20 min.



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 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 vehicle fan is deactivated when the vehicle is opened and is available again once the ignition is

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



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased guiescent current consumption message in the vehicle information system during or directly after operation in parking heating mode.

▶ This is not an error that can affect the vehicle on a technical level.

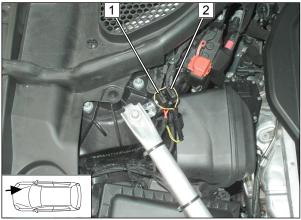


Note for parking heater function

Your vehicle is equipped with a passenger compartment preheating unit. There is no engine pre-heating.

Installation location of fuses 8.1

Fuses in engine compartment



1 F1 - 3A main fuse of passenger compartment

2 F2 - 20A heater main fuse



1 Series operating instructions 9



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 switchon time of 20 min.



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 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 vehicle fan is deactivated when the vehicle is opened and is available again once the ignition is

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



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased guiescent current consumption message in the vehicle information system during or directly after operation in parking heating mode.

▶ This is not an error that can affect the vehicle on a technical level.

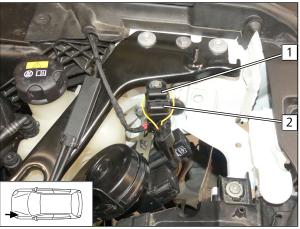


Note for parking heater function

Your vehicle is equipped with a passenger compartment preheating unit. There is no engine pre-heating.

Installation location of fuses 9.1

Fuses in engine compartment



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



3 Series operating instructions 10



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 switchon time of 20 min.



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 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 vehicle fan is deactivated when the vehicle is opened and is available again once the ignition is

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



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased guiescent current consumption message in the vehicle information system during or directly after operation in parking heating mode.

▶ This is not an error that can affect the vehicle on a technical level.

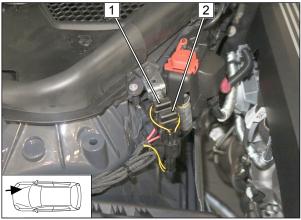


Note for parking heater function

Your vehicle is equipped with a passenger compartment preheating unit. There is no engine pre-heating.

Installation location of fuses 10.1

Fuses in engine compartment



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



5 Series operating instructions 11



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 switchon time of 20 min.



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 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 vehicle fan is deactivated when the vehicle is opened and is available again once the ignition is

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



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased guiescent current consumption message in the vehicle information system during or directly after operation in parking heating mode.

▶ This is not an error that can affect the vehicle on a technical level.

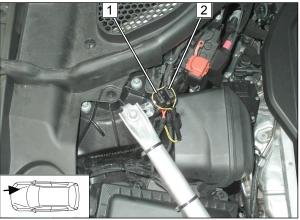


Note for parking heater function

Your vehicle is equipped with a passenger compartment and engine preheating unit.

Installation location of fuses 11.1

Fuses in engine compartment



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