

K Upgrade documentation

for water heaters Thermo Top Evo (OE)

VW T6.1

Left-hand drive vehicle

Manufacturer	Model	Type	Model year	EG-BE-No. / ABE
VW	T6.1	7HC	from 2020	e1* 2001/116* 0220*...

Validity	Equipment variants	Model
		T6.1
Verified equipment variants	Climatic	x
	Climatronic	x
	Vehicles with Webasto TT-Evo auxiliary heater installed ex-works	x
Unverified equipment variants	Passenger compartment monitoring	x

Total installation time	Note
3.5 hours	

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1 List of abbreviations

CR	Cronus (passenger compartment control unit)
Dia	Diagnosis connection
HG	Heater
MY	Model year
Veh.	Vehicle

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
Upgrade kit for VW T6.1 diesel MY 2020 TT-Evo auxiliary heater	1328073A
Control element in consultation with end customer	In accordance with price list

2.3 Notes on installation, in coordination with the end customer

- ▶ Arrange for the vehicle to be delivered with the fuel level **above** reserve.
- ▶ The installation location of the following elements should be chosen in coordination with the end customer:
 - the Cronus push button as well as the push button for the ThermoConnect option
 - the MultiControl CAR option

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

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 upgrade of the:

Thermo Top Evo heater

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

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 upgrading and operating the heater, read this installation documentation, 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.



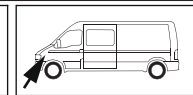
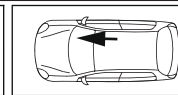
Note on a special technical feature

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
✓	Action
►	Necessary action
⇒	Result of an action
1 / 12 / a1	Position numbers for the image descriptions
① / ⑫ / Ⓐ	Position numbers for the image descriptions for electrical wires and components as well as coolant hose sections

4 Technical Information

Dimension specifications

- All dimensions specified in mm
- Perforated brackets and angles brackets are shown to scale

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 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
- PC diagnosis adapter: 1320920_
- Adapter cable: 1319943_
- Webasto Thermo Test Diagnosis with Software version V3.6 or higher

5 Preparations

5.1 Vehicle preparation

Vehicle area	Components to be removed	Other applicable documents
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5.2 Vehicle preparation



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

Vehicle area	Components to be removed	Other applicable documents
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Engine compartment and body	<ul style="list-style-type: none"> ▶ Disconnect the battery 	
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Passenger compartment	<ul style="list-style-type: none"> ▶ Upper section of the driver's seat (without seat frame) ▶ Footwell trim on the driver's and front passenger's side (if present) ▶ Side instrument panel trims on the driver's and front passenger's side ▶ Light switch ▶ Lower instrument panel trim on the driver's side ▶ Instrument panel trim on the front passenger's side above the glove box ▶ A/C control panel trim piece ▶ Complete glove box ▶ Remove the shift lever trim piece ▶ Lower, middle instrument panel trim 	
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6 Installation overview

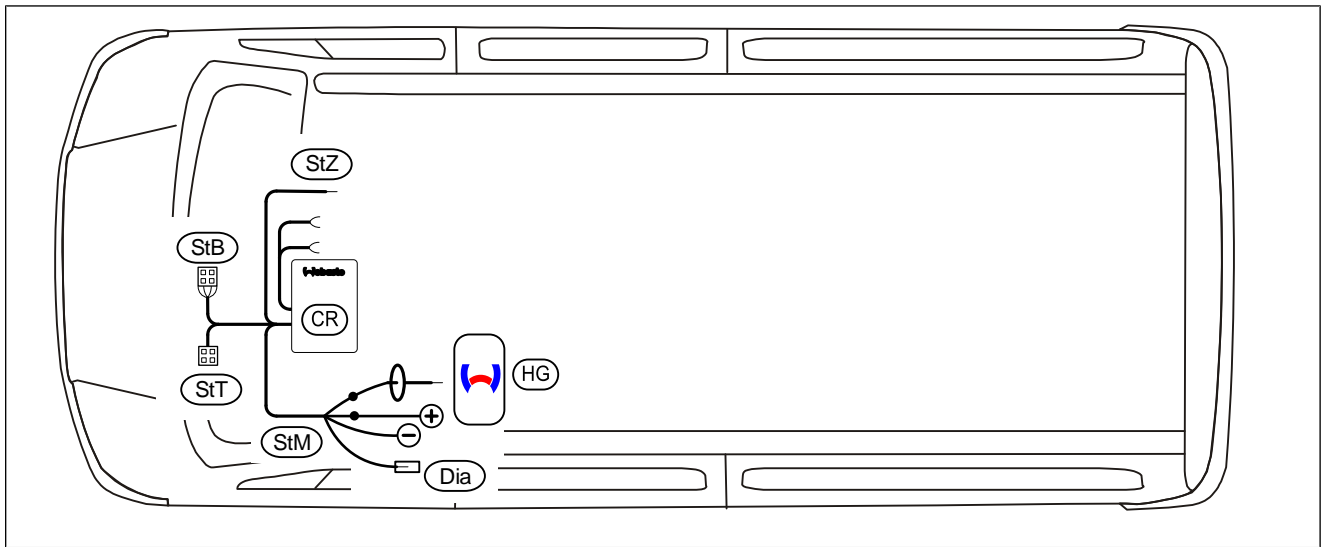
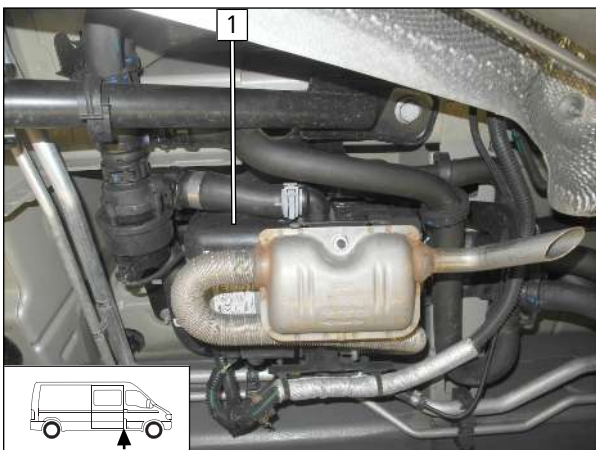


Fig. 1

Legend to installation overview

Abbreviation	Component
CR	Cronus (passenger compartment control unit)
Dia	Diagnosis connection
HG	Heater
STB	Female plug for control element wiring harness
StM	Male plug for engine compartment wiring harness
StT	Male plug for push button wiring harness
StZ	Male plug for additional relay wiring harness

Heater installation location



The appearance may vary depending on the equipment.

1 Heater

Fig. 2



7 Electrical system of passenger compartment

7.1 Preliminary work

Preparing wiring harness

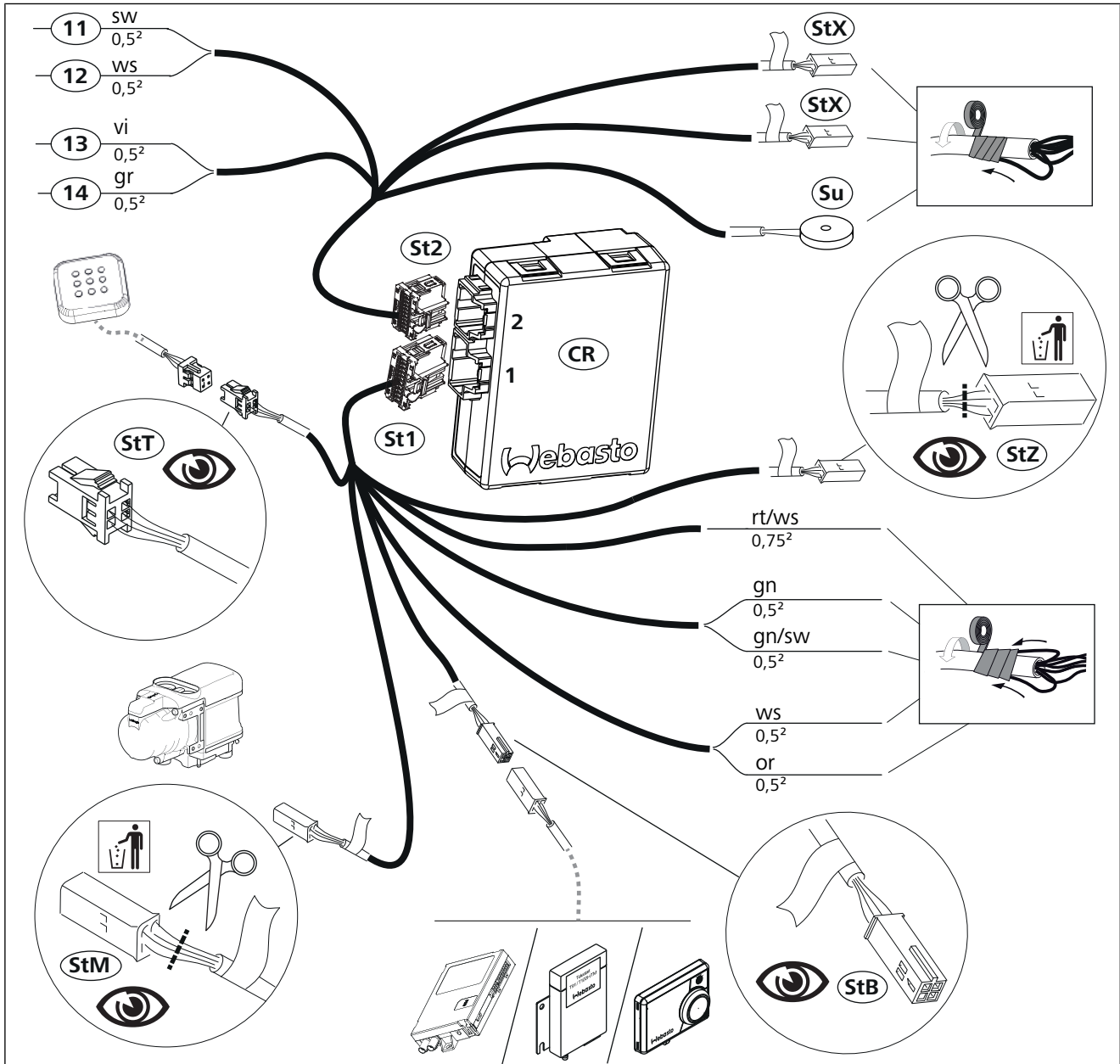


Fig. 3

Legend

Abbreviation	Component	Abbreviation	Component
CR	Cronus	StT	4-pin male plug for push button wiring harness
St1	16-pin, black connector of Cronus wiring harness 1	SU	Buzzer, will not be used
St2	12-pin, grey connector of Cronus wiring harness 2	StX	4-pin male plug, will not be used
StB	4-pin female plug for control element wiring harness	StZ	4-pin male plug for additional relay wiring harness
StM	4-pin male plug for engine compartment wiring harness		



Assigning wires of connector (StM) wiring harness section

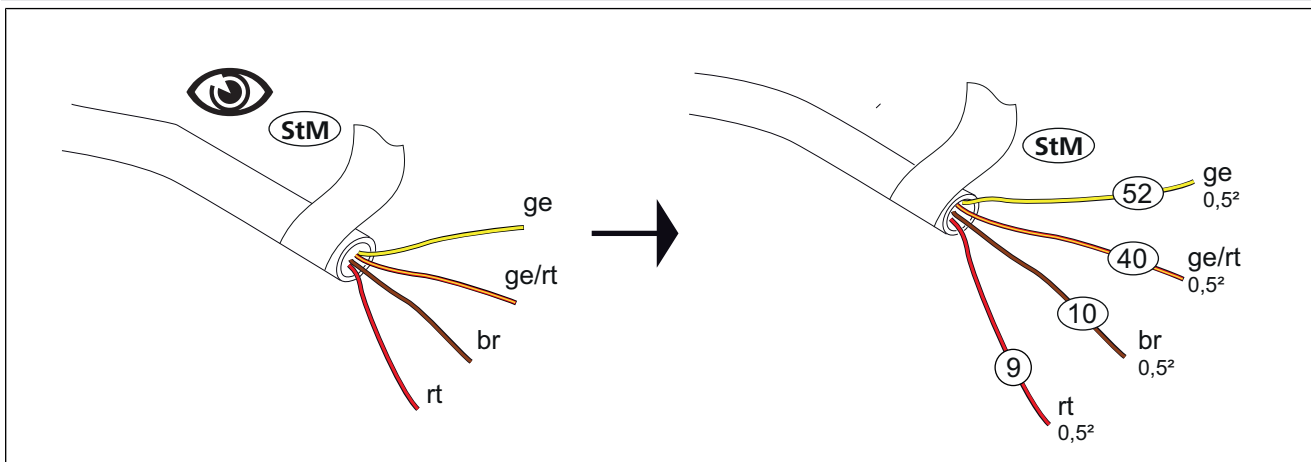


Fig. 4

Preparing/assigning wires of connector (StZ) wiring harness section

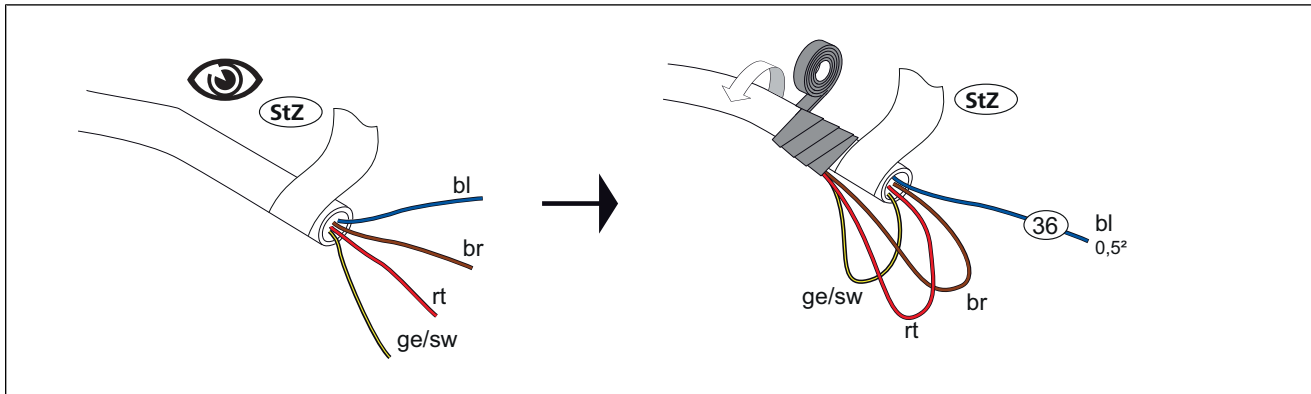


Fig. 5

Preparing / assigning wires

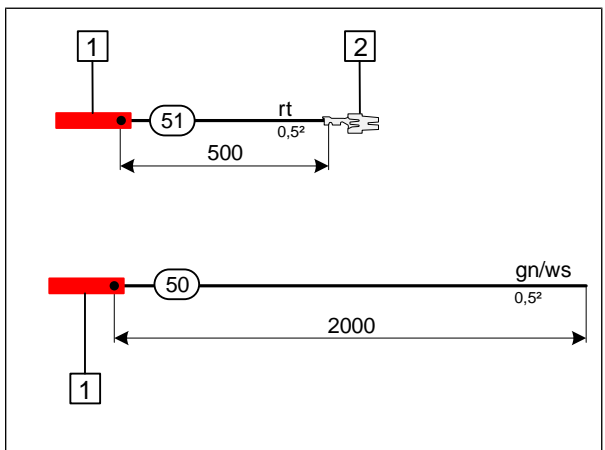


Fig. 6

- 1 0.5-1 mm², red (rt) wire butt connector
- 2 Flat spring contact



Preparing wires of connector **St1** wiring harness section



Only required in case of ThermoConnect control element option.

- ▶ Locate red/black (rt/sw) wire of pin 13 **1** and red (rt) wire of pin 8 **2** and cut them as shown.
- ▶ Insulate and tie back cut red/black (rt/sw) wire section of connector **St1** pin 13 as shown.
- ▶ Connect cut off red/black (rt/sw) wire section of Cronus wiring harness with red (rt) wire of connector **St1** pin 8 as shown.

3 0.5-1 mm², red (rt) wire butt connector

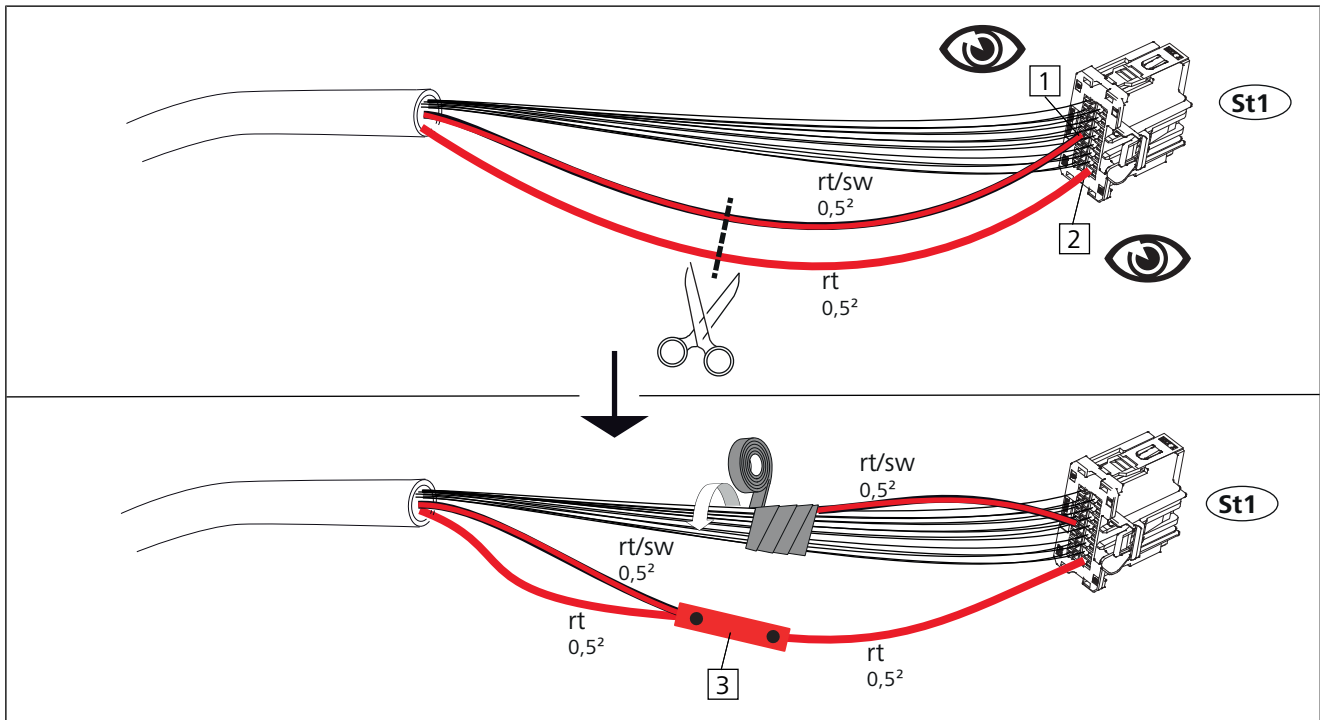


Fig. 7



7.2 Wiring diagram

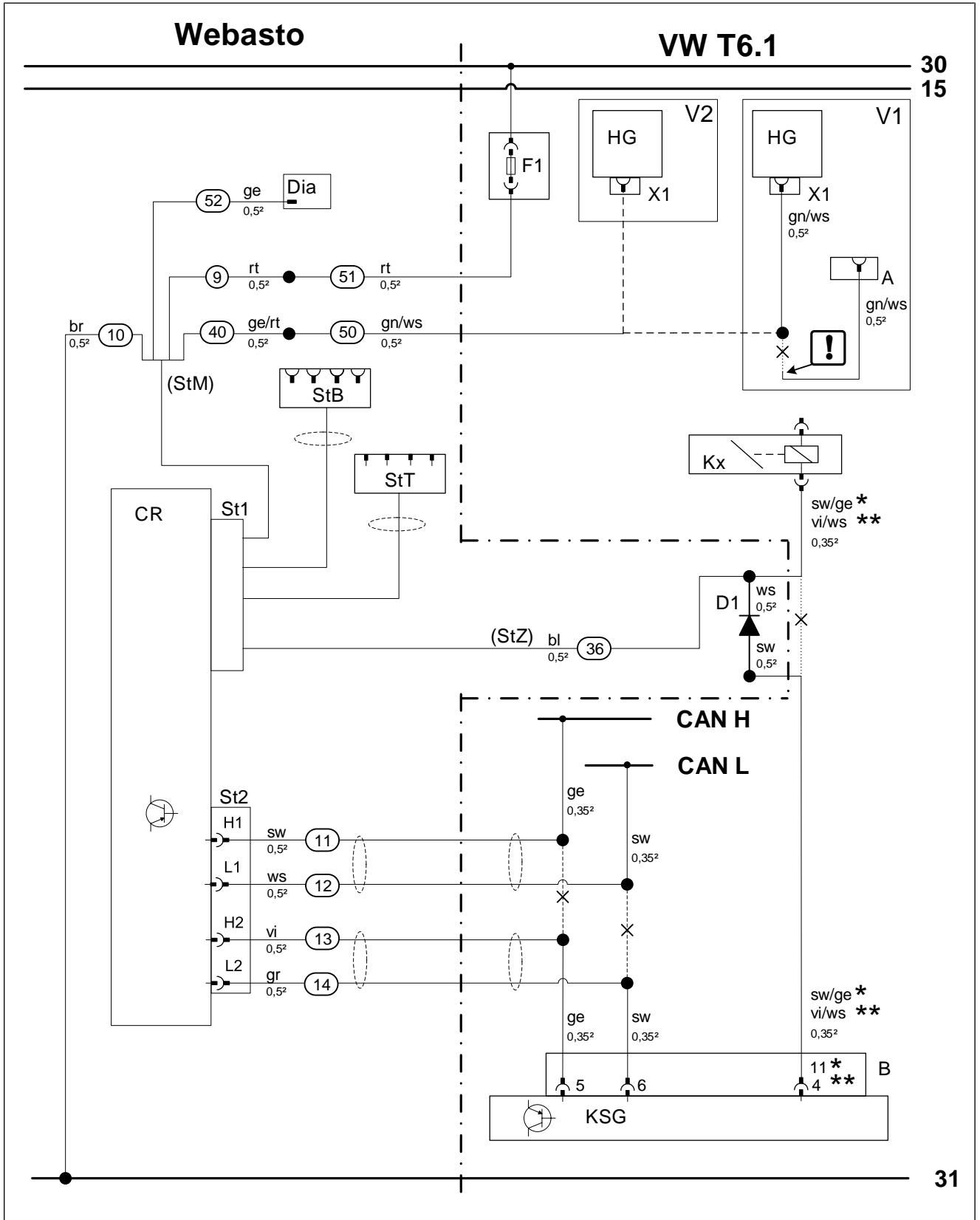



Fig. 8



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
F1	Cronus main fuse in original vehicle fuse holder	X	Cutting point
V1	Variant 1, the connection is made via adapter A		Insulate and tie back wire
V2	Variant 2, the connection is made directly on the HG		
HG	TT-Evo water heater	*	Climatic
X1	6-pin heater connector	**	Climatronic
A	17-pin adapter		
Kx	Relay		
KSG	Air-conditioning control unit		
B	20-pin KSG connector		

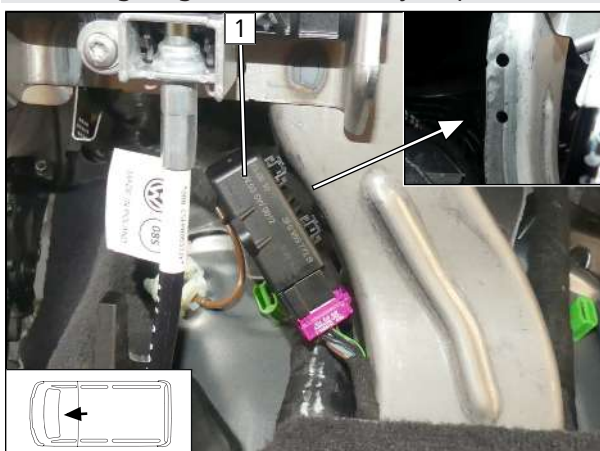
Webasto components		Cable colours	
Abbreviation	Component	Abbreviation	Colour
CLR	Cold start module	bg	beige
CR	Cronus (passenger compartment control unit)	bl	blue
D1	Diode	br	brown
D2	Diode group	dbl	dark blue
Dia	Diagnosis connection	dgn	dark green
E	Male plug for Plug&Play wiring harness	ge	yellow
F	Female plug for Plug&Play wiring harness	gn	green
F0	Additional fuse for power supply	gr	grey
F1	Heater main fuse	hbl	light blue
F2	Fan main fuse	hgn	light green
F3	Cronus main fuse	la	salmon
HG	Heater TT-Evo	or	orange
LA	Power adapter	pk	pink
PWM GW	Pulse width modulator gateway	ro	Pink
RTD	Temperature sensor	rt	red
St1	16-pin, black connector of Cronus wiring harness 1	sw	black
St2	14-pin, grey connector of Cronus wiring harness 2	vi	violet
StB	4-pin female plug for control element wiring harness	ws	white
StI	Female plug for passenger compartment wiring harness		
StM	Male plug for engine compartment wiring harness		
StT	Male plug for push button wiring harness		
StZ	Male plug for additional relay		



7.3 Fan controller

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

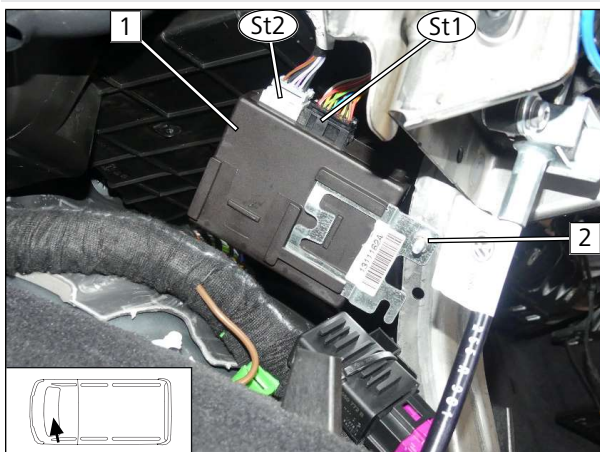
Removing original vehicle relay (if present)



- ▶ Remove original vehicle relay **1** from the mounting holes.

Fig. 9

Mounting Cronus



- ▶ Mount connectors **St1** and **St2** of Cronus wiring harness.
- ▶ Route wires **11** / **12** as well as **13** / **14** of **St2** wiring harness and wire **36** of **St1** wiring harness to the A/C control unit.
- ▶ Reposition connector **StB** at the installation location of the control element.
- ▶ Reposition connector **StT** at the installation location of the push button.

- 1** Cronus
- 2** M5x16 bolt, large diameter washer, original vehicle hole, Cronus bracket, flanged nut

Fig. 10

Fastening original vehicle relay (if present)



- ▶ Fasten original vehicle relay **2** with cable tie **1** on original vehicle wiring harness.

Fig. 11



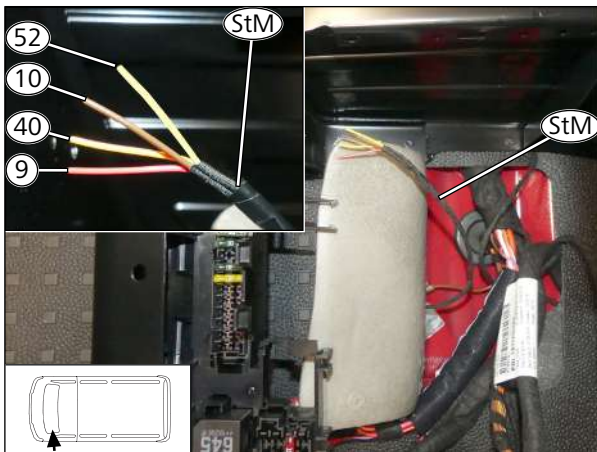
Repositioning pulling aid



- ▶ Route suitable pulling aid **1** from the direction of the driver's seat under the insulation mat to the centre console.

Fig. 12

Routing **StM** wiring harness section



- ▶ Draw **StM** wiring harness section with wires **9**, **10**, **40** and **52** from the centre console to the driver's seat using a pulling aid.

Fig. 13

Preparing **StM** wiring harness section in passenger compartment

- ▶ Premount prepared wires, cable lug A6 **1** as well as female connector **2** with female connector housing **3** as shown.

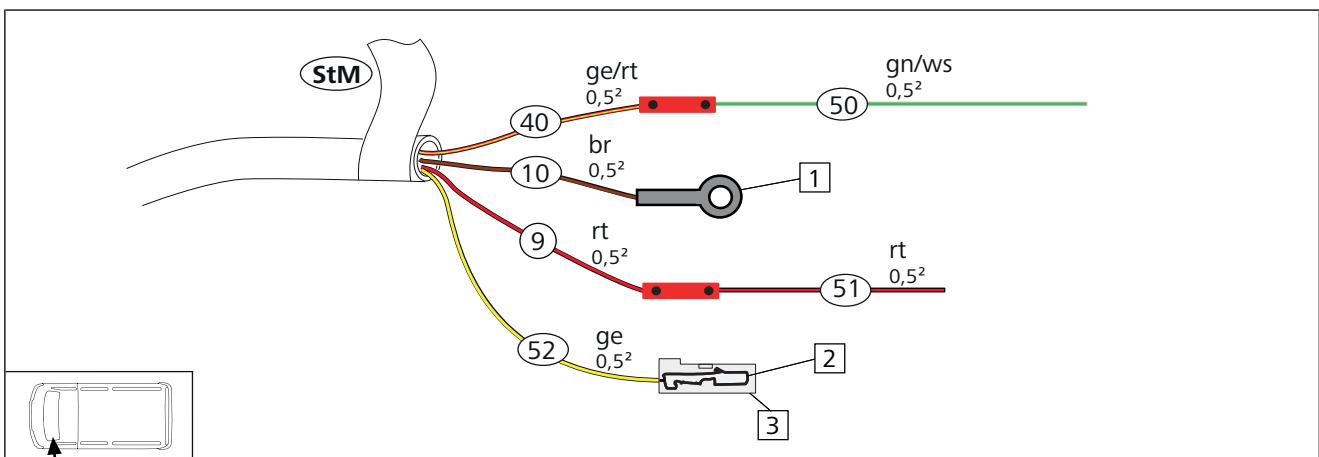


Fig. 14



Earth wire connection

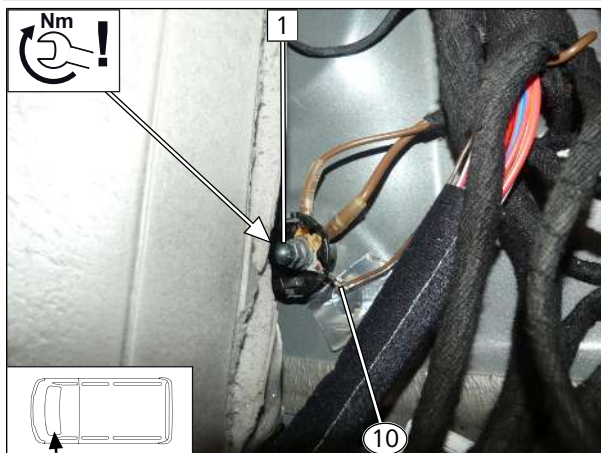


Fig. 15



DANGER

Observe tightening torque

- 1 Original vehicle earth support point
- 10 Earth wire

Removing original vehicle fuse holder 1

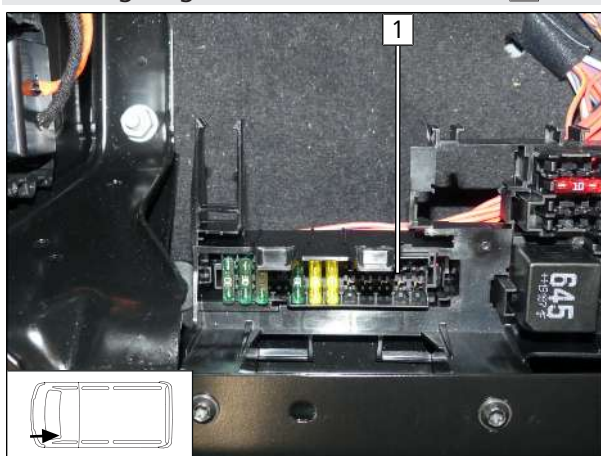


Fig. 16

Releasing the locking mechanism

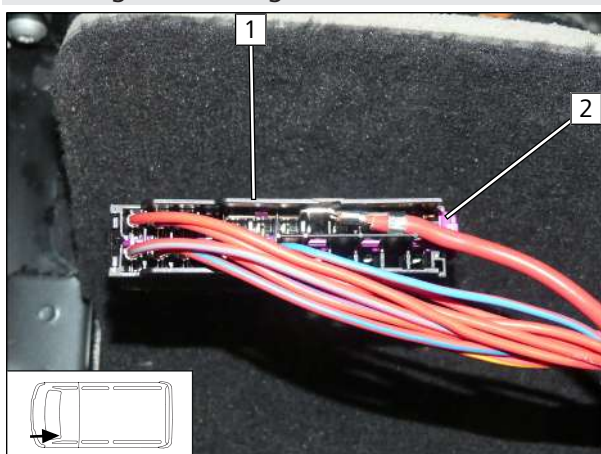


Fig. 17

► Release locking mechanism 2 of fuse holder 1 carefully.



Connecting wire 51

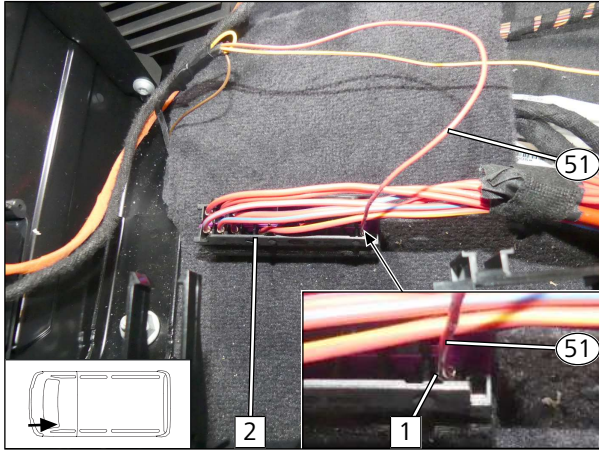


Fig. 18

- ▶ Install premounted flat spring contact **1** of wire **51** in free slot of original vehicle fuse holder **2** in the power strip area and engage the locking mechanism again.

Mounting original vehicle fuse holder

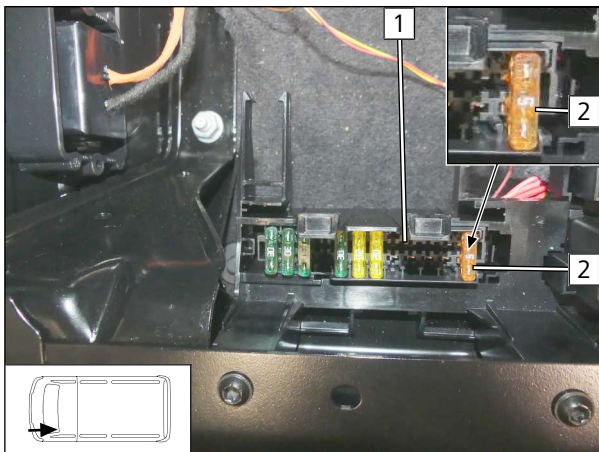


Fig. 19

- ▶ Mount original vehicle fuse holder **1**.
- ▶ Insert 5A fuse F1 **2** in chosen slot of wire **51**.

Identifying variants

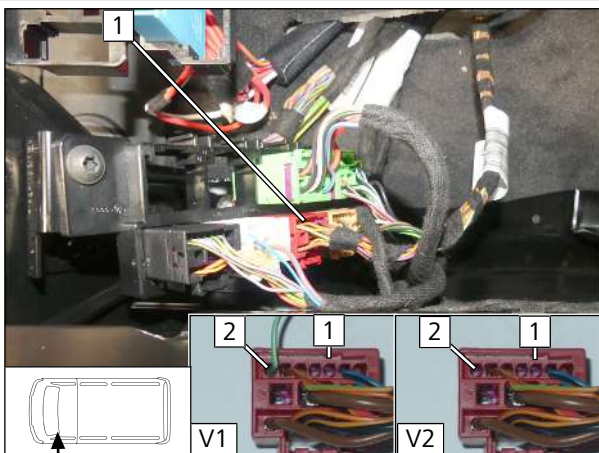


Fig. 20

- ▶ Locate and detach adapter A **1**.



Variant 1: there is a green/white (gn/ws) wire in slot **2** of adapter A **1**



Variant 2: there is no wire in slot **2** of adapter A **1**



7.4 Connection in case of variant 1

Locating and separating green/white (gn/ws) wire of adapter

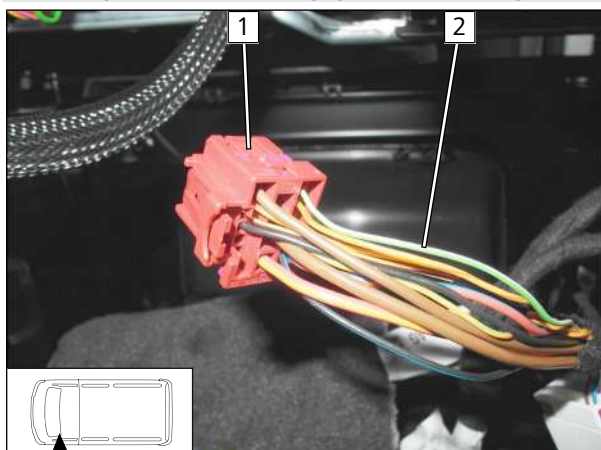


Fig. 21

- 1 Adapter A
- 2 Green/white (gn/ws) wire

Connecting wire 50

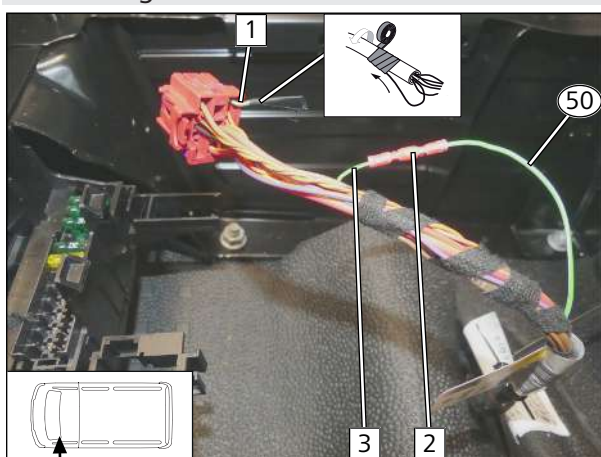


Fig. 22

► Cut green/white (gn/ws) wire as shown then insulate and tie back section 1 on adapter A.

- 2 Butt connector
- 3 Green/white (gn/ws) wire of HG connector X2

► Mount adapter A again.



7.5 Connection in case of variant 2

Routing wire 50 to underbody



► Route wire 50 through protective rubber plug 1 to underbody.

Fig. 23

Mounting microtimer 1 on wire 50

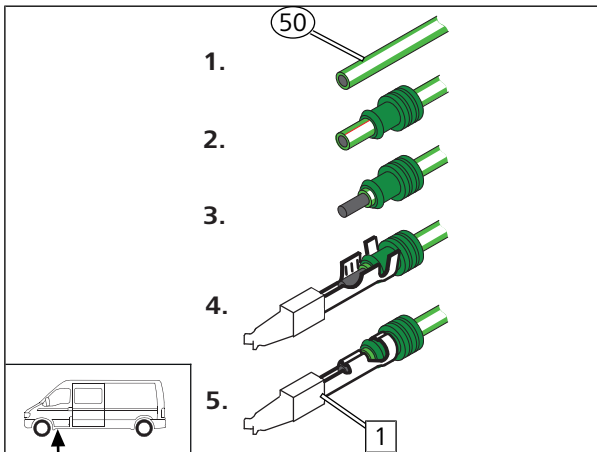
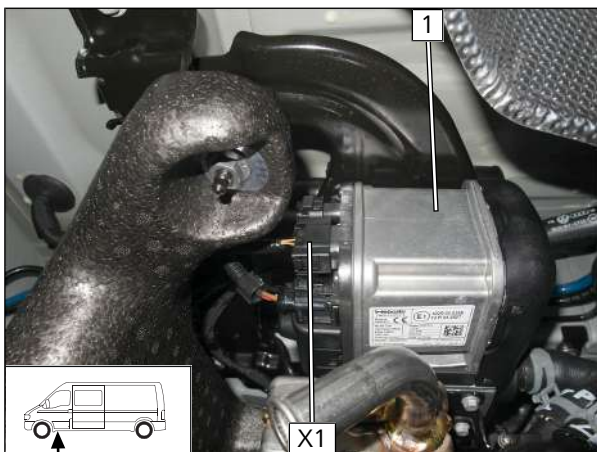


Fig. 24

Disconnecting connector X1 on HG



1 HG
X1 6-pin heater connector

Fig. 25



Unlocking connector **X1** as shown

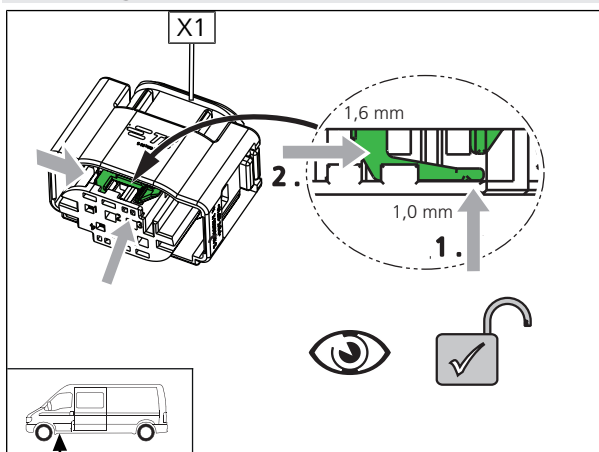


Fig. 26

Removing sealing plug

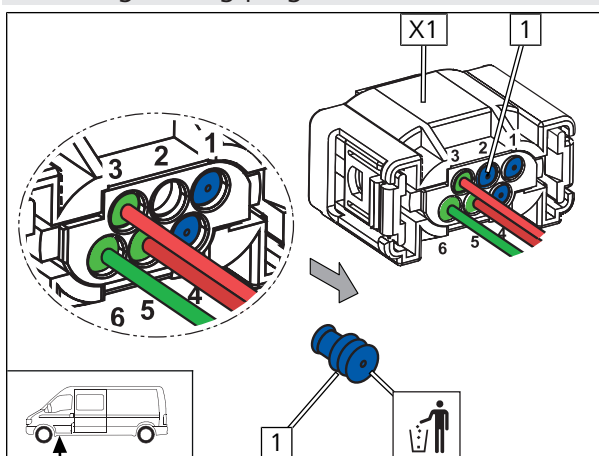


Fig. 27

► Remove sealing plug **1** from slot **2** of connector **X1**.

Connecting wire **50**

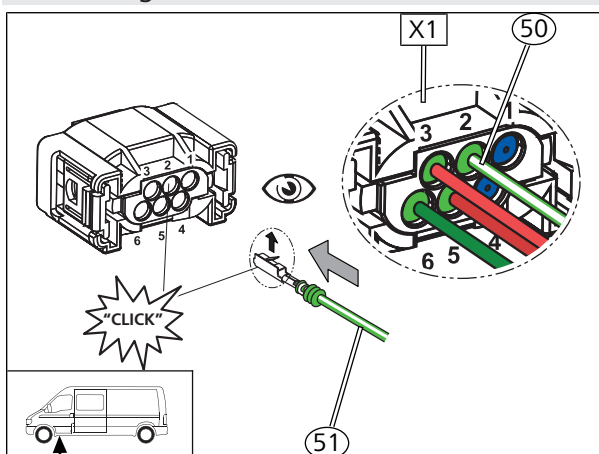


Fig. 28

► Mount wire **50** in slot **2** of connector **X1** as shown.



Locking connector **X1** as shown

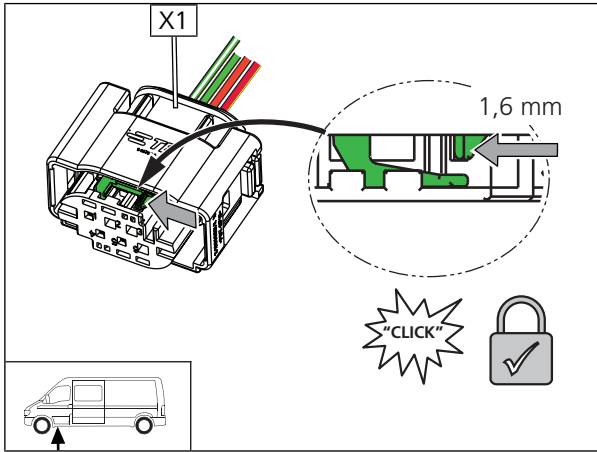


Fig. 29

Connecting connector **X1** to HG

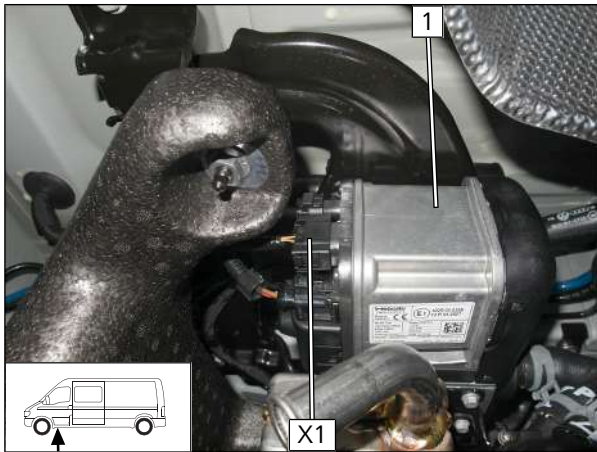


Fig. 30



7.6 Connection to A/C control unit Climatic

Locating and disconnecting connector B **2** of A/C control unit **1**

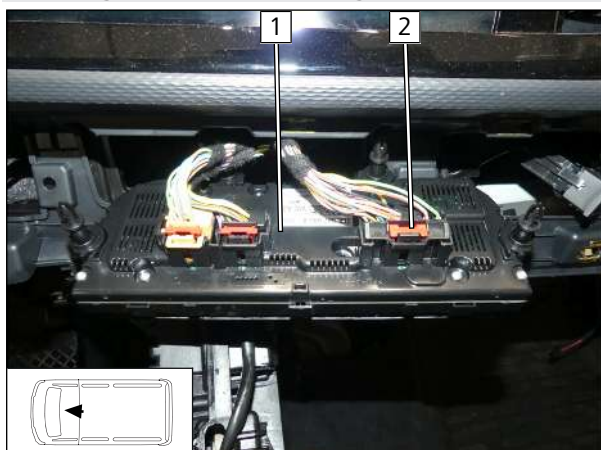


Fig. 31

Assigning wires of connector B

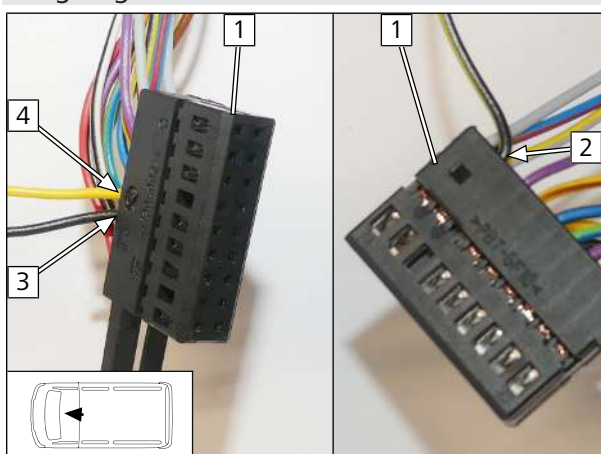


Fig. 32

- 1** 20-pin KSG connector B
- 2** Black/yellow (sw/ge) wire of KSG connector B / pin 11
- 3** Black (sw) wire of KSG connector B / pin 6
- 4** Yellow (ge) wire of KSG connector B / pin 5

Connecting wires of St2 wiring harness

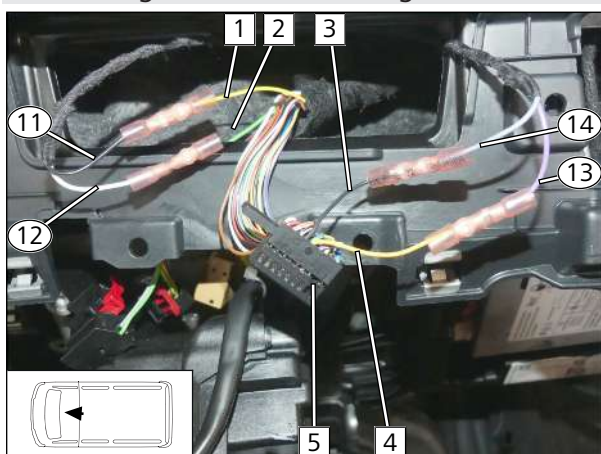


Fig. 33

- 1** Yellow (ge) wire of CAN High
- 2** Black (sw) wire of CAN Low
- 3** Black (sw) wire of KSG connector B / pin 6
- 4** Yellow (ge) wire of KSG connector B / pin 5
- 5** 20-pin KSG connector B
- 11** Black (sw) wire of Cronus St2 wiring harness
- 12** White (ws) wire of Cronus St2 wiring harness
- 13** Violet (vi) wire of Cronus St2 wiring harness
- 14** Grey (gr) wire of Cronus St2 wiring harness



Connecting wire 36

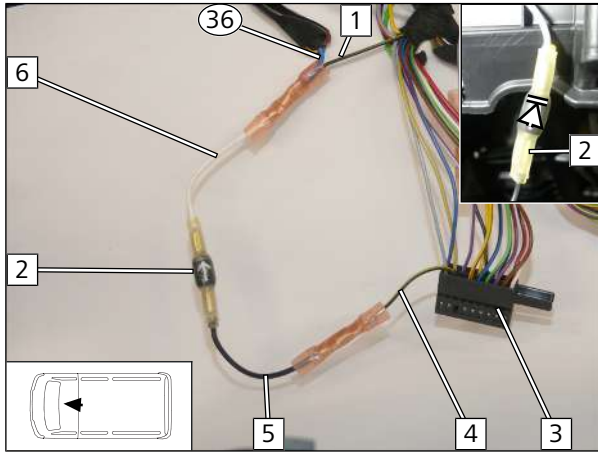


Fig. 34

- 1 Black/yellow (sw/ge) wire of relay Kx
- 2 Diode D1
- 3 20-pin KSG connector B
- 4 Black/yellow (sw/ge) wire of KSG connector B / pin 11
- 5 Black (sw) wire of diode D1
- 6 White (ws) wire of diode D1
- 36 Blue (bl) wire of StZ wiring harness



7.7 Connection to A/C control unit Climatronic

Locating and disconnecting connector B **2** of A/C control unit **1**

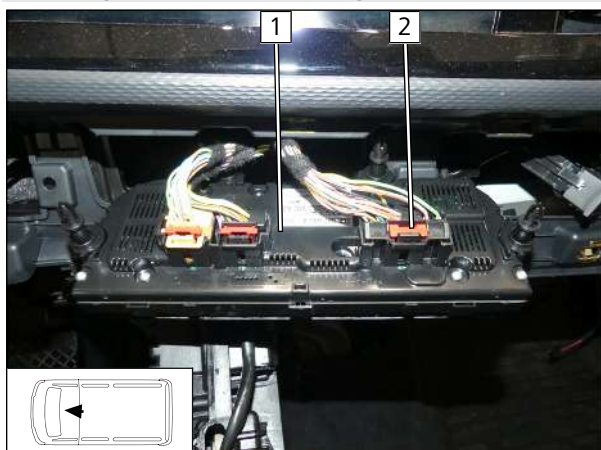


Fig. 35

Assigning wires of A/C control unit connector B

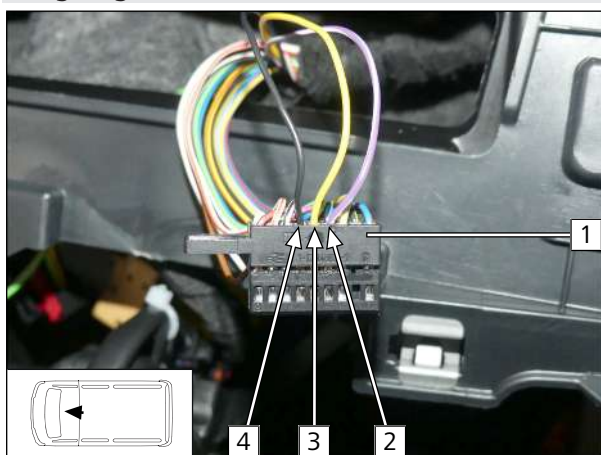


Fig. 36

- 1** 20-pin KSG connector B
- 2** Violet/white (vi/ws) wire of KSG connector B / pin 4
- 3** Yellow (ge) wire of KSG connector B / pin 5
- 4** Black (sw) wire of KSG connector B / pin 6

Connecting wires of St2 wiring harness

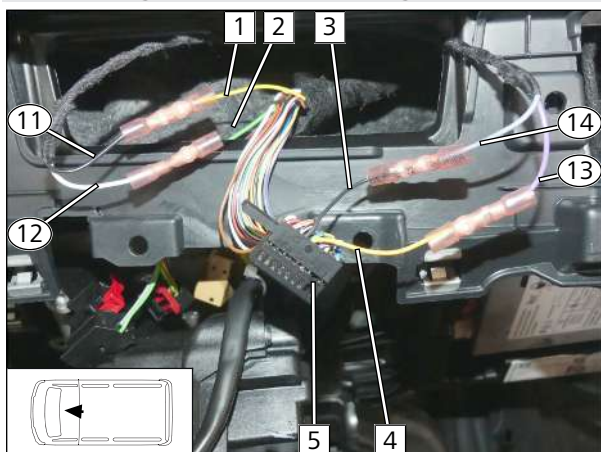


Fig. 37

- 1** Yellow (ge) wire of CAN High
- 2** Black (sw) wire of CAN Low
- 3** Black (sw) wire of KSG connector B / pin 6
- 4** Yellow (ge) wire of KSG connector B / pin 5
- 5** 20-pin KSG connector B
- 11** Black (sw) wire of Cronus St2 wiring harness
- 12** White (ws) wire of Cronus St2 wiring harness
- 13** Violet (vi) wire of Cronus St2 wiring harness
- 14** Grey (gr) wire of Cronus St2 wiring harness



Connecting wire 36

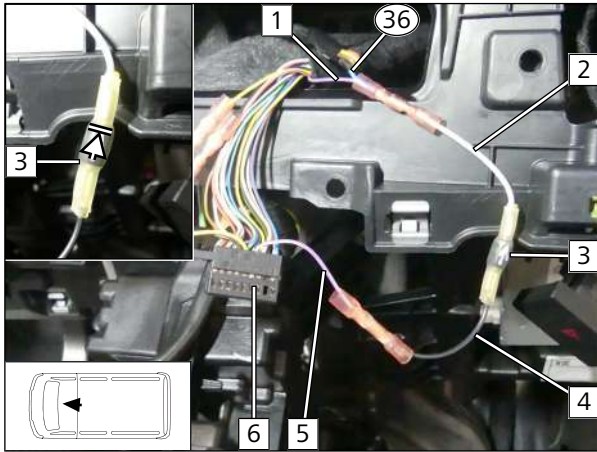


Fig. 38

- 1 Violet/white (vi/ws) wire of relay Kx
- 2 White (ws) wire of diode D1
- 3 Diode D1
- 4 Black (sw) wire of diode D1
- 5 Violet/white (vi/ws) wire of KSG connector B / pin 4
- 6 20-pin KSG connector B
- 36 Blue (bl) wire of StZ wiring harness



7.8 Connection of Cronus to push button



The installation location of the Cronus push button should be confirmed with the end customer and should comply with the installation conditions.

- ▶ Mount the push button and connect the marked male plug of Cronus wiring harness 1 with the female plug of the Cronus push button as shown.

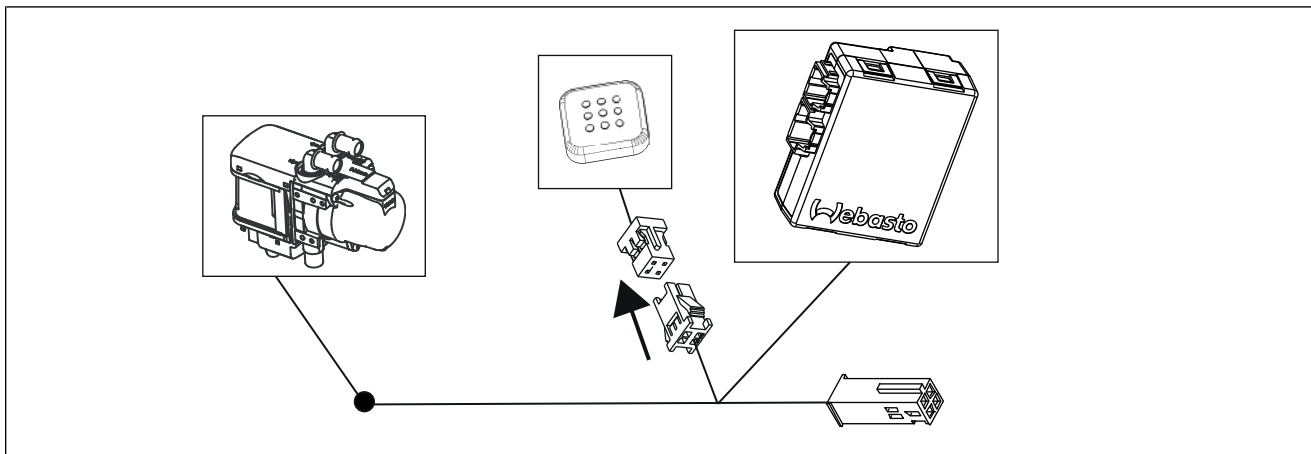


Fig. 39

7.9 Connection and installation of MultiControl AM , Telestart and/or ThermoConnect control elements



Install the control element in accordance with the provided relevant general installation documentation. The installation location of the optional control element MultiControl or the push button of the Telestart and/or ThermoConnect options should be confirmed with the end customer and should comply with the installation conditions.

- ▶ Connect the marked female plug of Cronus wiring harness 1 with the male plug of the relevant control element as shown.

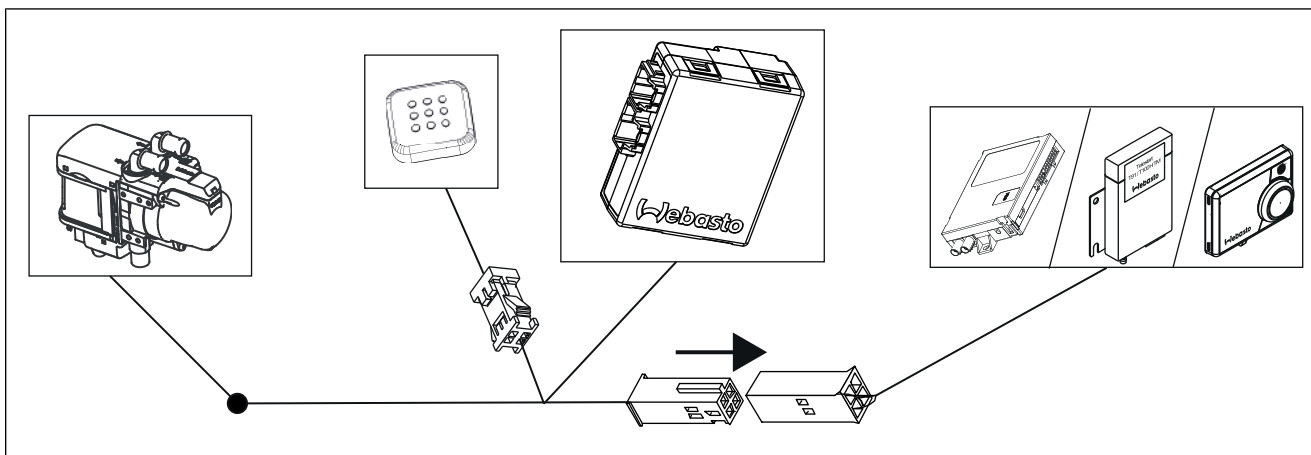


Fig. 40

8 Installing upgrade software



Take into account the information in the 'ReadMe' file.

Observing or performing the following points/tasks

- ▶ Check that the Webasto diagnosis program (Webasto Thermo Test) is closed or has not been started on your computer.

- ▶ All connections to the power supply and to the computer may not be interrupted during the upgrade.

- ▶ Connect the dongle to a USB port on the computer you are using.

- ▶ Switch off the ignition on the vehicle.
 - ⇒ The auxiliary heater in the vehicle must not be turned on.

Diagnosis connection

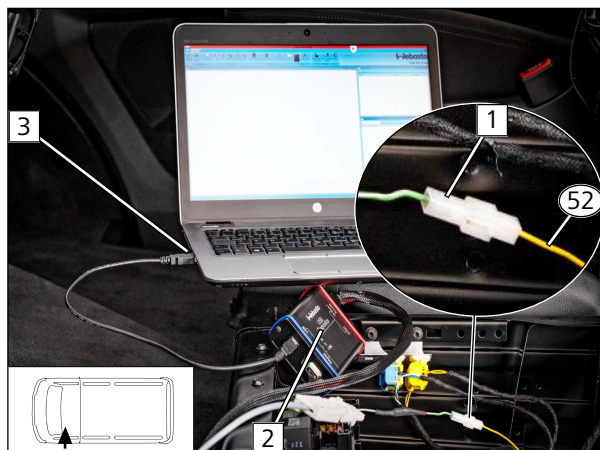


Fig. 41

- ▶ Connect wire (52) with adapter wire (1) of Webasto Thermo Test Diagnosis wiring harness (2).

- ▶ (3) Webasto Thermo Test Diagnosis connector on computer

Starting upgrade



- ▶ Follow the instructions on the screen.

⇒ The parking heater functionality upgrade will take approx. 1 to 3 minutes.



9 Final Work



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

- ▶ Mount removed parts in reverse order.

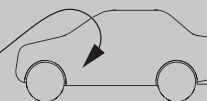
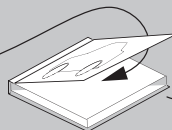
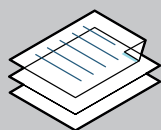


- ▶ Check all electrical connections for firm seating
- ▶ Insulate and tie back loose lines
- ▶ Spray electrical components with anti-corrosion wax (Tectyl 100K)
- ▶ Connect the battery



Vehicle event log after parking heating mode

- ✓ Components of the original vehicle air conditioning system are activated during parking heating mode. Other vehicle components remain inactive, which in some circumstances may be interpreted as an error and can be filed as such in the event log. An increased power consumption (quiescent current) may also be registered for some vehicles.
- ▶ If an incorrect installation can be excluded, these entries are exclusively related to the parking heating mode situation and have no effect on the vehicle functions in driving mode.



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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10 Climatic 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 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.



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased quiescent 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.

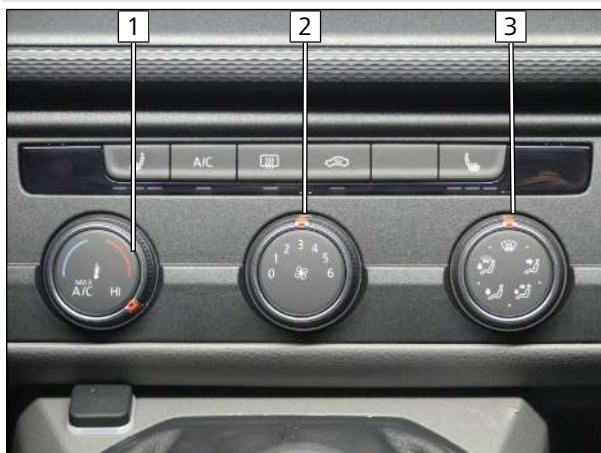


Note for parking heater function

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

10.1 A/C control panel settings

Climatic A/C control panel



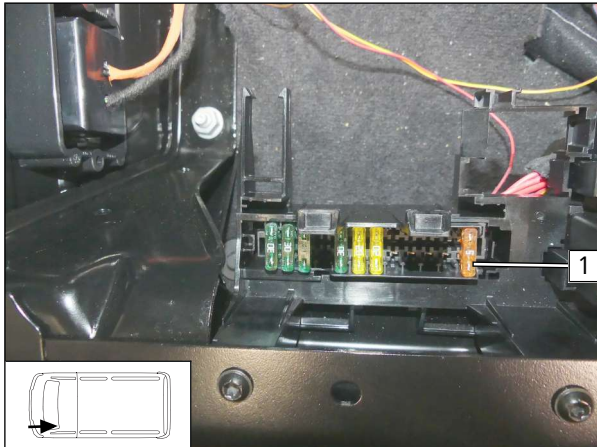
Before parking the vehicle, make the following settings:

- 1 Set temperature to 'max.'
- 2 Set fan to level '3'
- 3 Air outlet to windscreen

Fig. 42

10.2 Installation location of fuses

Fuses in passenger compartment



The fuse is located beneath the driver's seat.

- 1 F1 - 5A Cronus main fuse

Fig. 43

11 Climatronic 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 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.



Note for current consumption in case of parking heating mode

Depending on the vehicle model, there may be an increased quiescent 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.

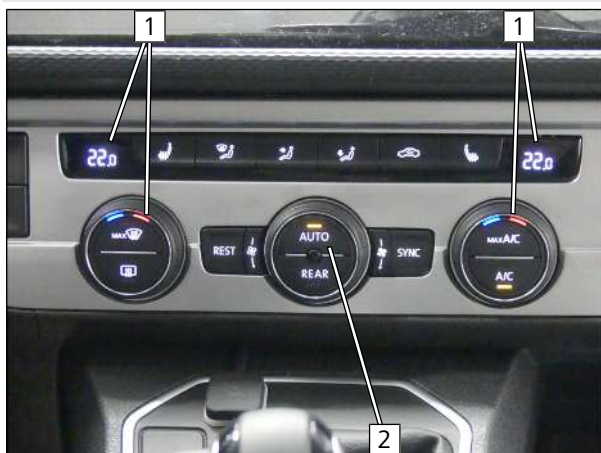


Note for parking heater function

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

11.1 A/C control panel settings

Climatronic A/C control panel



Before parking the vehicle, make the following settings:

- 1 Set temperature on both sides to 'min. 20°C'
- 2 Fan and flap control on 'Auto'

Fig. 44

11.2 Installation location of fuses

Fuses in passenger compartment



The fuse is located beneath the driver's seat.

- 1 F1 - 5A Cronus main fuse

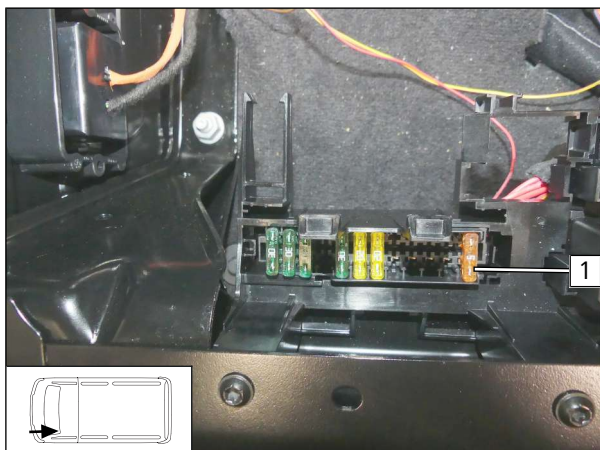


Fig. 45