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Installation documentation

for air heater AT 2000 STC

Ford Transit

Left-hand drive vehicle

Manufacturer	Model	- 71	Model year	EG-BE-No. / ABE
Ford	Transit	FCD	from 2014	e1* 2007/46* 1100*
Ford	Transit	FCD	from 2020	e1* 2007/46* 1096*

Motorisation	Fuel	Emission standard	Transmission type	[kW]	Displace- ment [cm³]	Engine code
2.2TDCi	Diesel	Euro 5 / 6	SG	74	2198	DRF5
2.2TDCi	Diesel	Euro 5 / 6	SG	92	2198	DRF5
2.2TDCi	Diesel	Euro 5 / 6	SG	114	2198	CVR5
2.0TDCi	Diesel	Euro6;WLTP;CI;	SG	96	1995	BKRA
2.0TDCi	Diesel	Euro6;WLTP;CI;	SG	96	1995	BKFB

Validity	Equipment variants	Model
		Transit
Verified	Passenger double-bench seat	х
equipment variants	Van with partition wall	х
	Single cabin / double cabin	Х
	Front wheel drive	х
	Rear-wheel drive	х
	70 L, 80 L, 95 L and 100 L tank	Х
Unverified	Alarm system	х
equipment variants	Single front passenger's seat	Х
	2. Battery	х

Total installation time	Note
7.5 hours	

Contents

1	List of abbreviations	3
2	Installation notes	4
2.1	Information on validity	4
2.2	Components used	4
2.3	Notes on installation, in coordination with the end customer	4
2.4	Information on total installation time	4
3	About this document	5
3.1	Purpose of the document	5
3.2	Warranty and liability	5
3.3	Safety	5
3.3.1	Safety information on installation	5
3.4	Using this document	6
4	Technical Information	8
5	Preparations	9
5.1	Vehicle preparation	9
5.2	Heater preparation	9
6	Installation overview	10
7	Mechanical system	11
7.1	Preparing installation location	11
7.2	Preparing heater	12
7.3	Heater mounting	12
8	Combustion air	14
9	Exhaust	17
9.1	Exhaust variant 1	17
9.2	Exhaust variant 2	19
10	Fuel	21
10.1	Connecting and routing	21
10.2	Fuel pump	24
10.3	Tank extracting device	25
10.4	Connecting tank extracting device fuel line to fuel pump	27
11	Hot air option A, cab heating	28
11.1	Hot air routing diagram	28
11.2	Hot air routing	29

12	Hot air option B, with cargo space	
	heating	32
12.1	Hot air routing diagram	32
12.2	Hot air routing	33
13	Electrical system	39
14	Electrical system of control element	42
14.1	Setpoint sensor	42
15	Final work for vehicle	45
16	Final work	46
17	Tank extracting device template for 70 L and 80 L	49
18	Tank extracting device template for 95 L	51
19	Tank extracting device template for 100 L	53
20	Operating instructions	55
20.1	Installation location of fuses	55

1 List of abbreviations

- HG Heater
- MCC MultiControl (control element)
- SG Manual transmission
- Veh. Vehicle

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
Basic delivery scope of Air Top 2000STC diesel	In accordance with price list
Air Top 2000STC Standard installation kit	9032244_
Installation kit for Ford Transit diesel	1323193B
Additional cargo space heating kit	1328188A

Setpoint sensor option	Order number
Setpoint sensor	82819_
Setpoint sensor installation frame	1319733_
Mounting plate for installation frame	474630

MultiControl HD option	Order number
MultiControl HD	9030025_
In case of MultiControl HD installation - MultiControl installation frame	9030077_
In case of MultiControl HD installation - timer cable extension	1319724_

2.3 Notes on installation, in coordination with the end customer

Arrange for the vehicle to be delivered with the tank only about 1/4 full.

- ▶ The installation location of the following elements should be chosen in coordination with the end customer:
- Setpoint sensor
- for the MultiControl HD 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 installation of the:

Air Top 2000STC 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.

Sharp edges must be provided with rub protection.

Spray unfinished body areas, e.g. 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.

Statutory regulations governing installation

The Air Top 2000STC, Air Top 3900/5500 and

Air Top 40/55 heaters have 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.
 - ➡ In the case of M2 and M3 vehicles, the combustion heater must not be positioned in the passenger compartment.

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

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

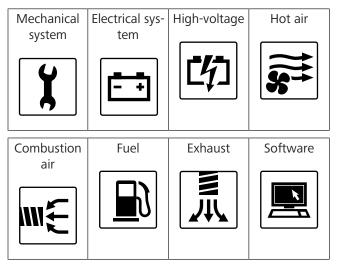
Actions to protect yourself against risks.

i Reference to the vehicle manufacturer's specific documents.

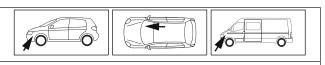
Note on a special technical feature

3.4.3 Work step identification marks

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



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
1/12/a1	Position numbers for the image descriptions
1 / 12 / A	Position numbers for the image descriptions for electrical wires and flex pipe sections of the hot air distributor

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

- Tightening torque of M6 heater nut = 6Nm + 1Nm
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-theart-technology

Heater mounting

- A seal must be fitted between the heater and the vehicle body. It should be replaced before each re-installation

Necessary special tools

- Hose clamp pliers for Clic hose clamps of type W
- Ø55 and Ø 60 circle bit
- 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
- Metric thread-setter kit
- Webasto Thermo Test Diagnosis with current software

5 **Preparations**

5.1 Vehicle preparation

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

Vehicle area	Components to be removed	Other ap- plicable documents
General	► Open the fuel tank cap	K
	► Ventilate the fuel tank	
	Close the fuel tank cap again	
Passenger	Disconnect the battery	K
compart- ment	► Driver's seat	
	► Uncover the battery	
	Remove the front passenger bench seat (or fold it up)	
	► Left trim of the front passenger's seat (only for vehicles with partition wall)	

Carry out the following work only during the corresponding installation sequence:



DANGER

Risk of fire and explosion due to leaking fuel and escaping fuel vapours.

	Exhaust system heat guard plate beneath the heater installation location	K
body	Tank in accordance with the manufacturer's instructions	
	Tank fitting in accordance with the manufacturer's instructions	

5.2 Heater preparation

Engine	Remove years that do not apply from the type and duplicate label	
compart- ment	Attach the duplicate label (type label) in the appropriate place in the engine compart- ment	

9

6 Installation overview

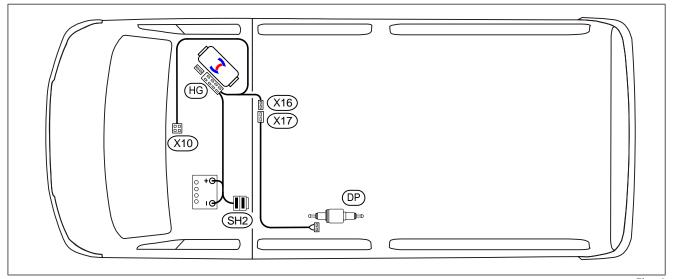
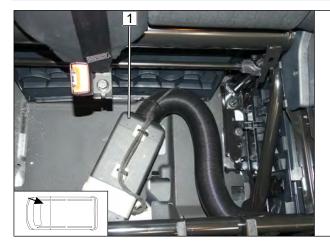


Fig. 1

Legend to installation overview

Abbreviation	Component
DP	Fuel pump
HG	Heater
SH2	F1/F3 fuse holder
X10	Female plug for control element
X16	Fuel pump plug connection
X17	Fuel pump plug connection

Heater installation location



2

11

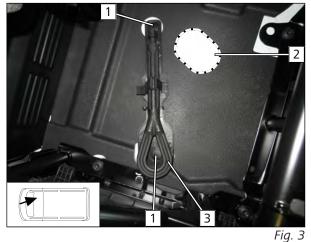
1 Heater (cabin heating)

2 Heater (cabin and cargo space heating)

7 Mechanical system

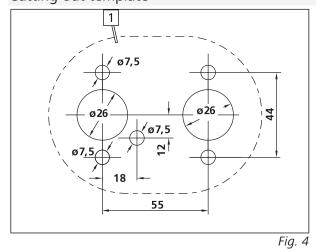
7.1 **Preparing installation location**

Removing towing eye



- **1** Detach clip (one clip will be reused)
- **2** Heater position
- $\fbox{3} Towing eye with bracket$

Cutting out template



- Observe the AT 2000STC installation documentation.
- Cut template 1 out of provided general AT 2000STC installation documentation.

Copying hole pattern

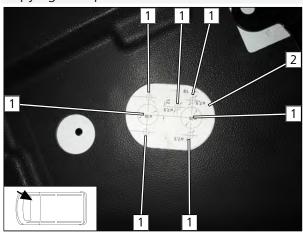
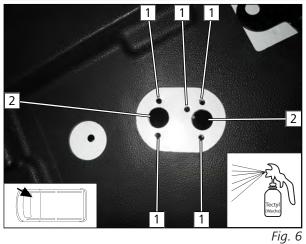


Fig. 5

▶ Position and align template 2. Copy hole pattern 1.

Drilling hole in underbody



7.2 Preparing heater

Preparing heater



Cover grille (air intake side)
 Rubber gasket

1 Ø7.5 hole

2 Ø26 hole

Fig. 7

7.3 Heater mounting Positioning and aligning heater

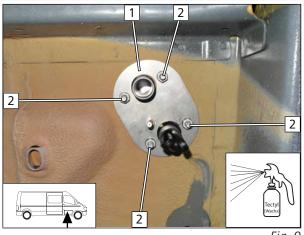


Fig. 8

1 Heater



Mounting heater

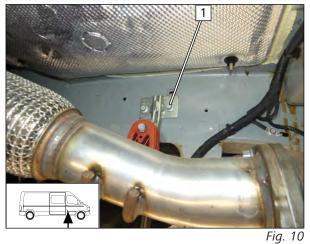




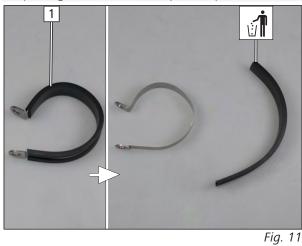
- **1** Retaining plate
- **2** Large diameter washer, spring lock washer, flanged nut

8 **Combustion** air

Removing bolt



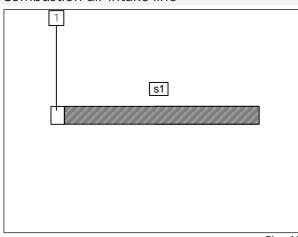
Preparing rubber-coated p-clamp



1 Original vehicle bolt (will be reused)

1 Ø48 rubber-coated p-clamp

Combustion air intake line





1 Expanded side of the combustion air intake pipe (heater)

14

Enlarging hole in perforated bracket

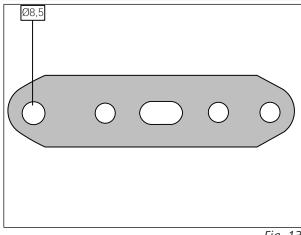
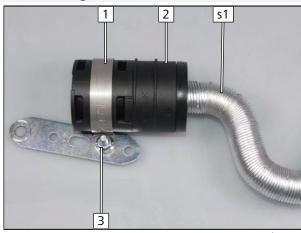


Fig. 13

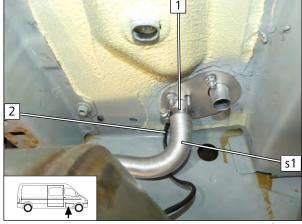
Premounting combustion air intake silencer



- **1** Ø48 pipe clamp
- **2** Combustion air intake silencer
- **3** M6x20 bolt, Ø48 pipe clamp, perforated bracket, flanged nut
- **s1** Combustion air intake line

Fig. 14

Mounting combustion air intake pipe **s1**





- 1 Ø16-27 screw clamp
- **2** Fuel pump wiring harness

Mounting combustion air intake silencer

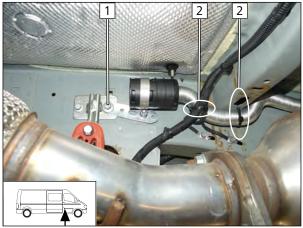


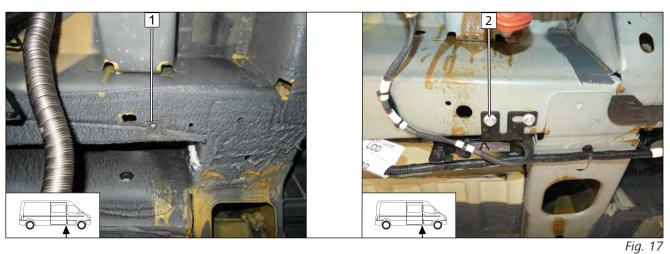
Fig. 16

- 1 Original vehicle bolt, perforated bracket
- **2** Cable tie

9 Exhaust

Differentiation between variants

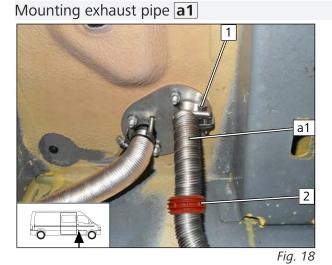
1 Version 1



2

Version 2

9.1 Exhaust variant 1



Inserting rivet nut

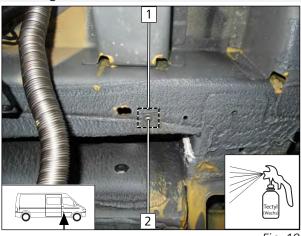


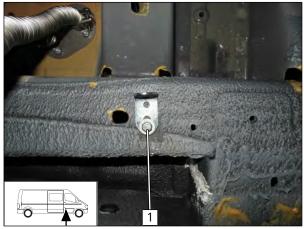
Fig. 19

- 1 Hose clamp
- 2 Spacer bracket

- ▶ Remove underbody protection **1** around existing hole **2**.
 - 2 Enlarge original vehicle hole to Ø9, rivet nut



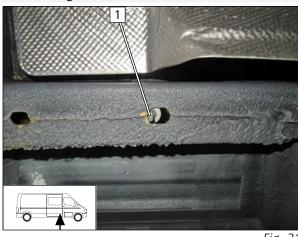
Mounting angle bracket



1 M6x20 bolt, spring lock washer, large diameter washer, angle bracket, rivet nut



Positioning bolt



Place a large diameter washer and a lock washer on M6x20 bolt 1 and position in existing hole.

Fig. 21

Mounting angle bracket

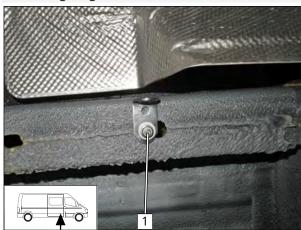


Fig. 22

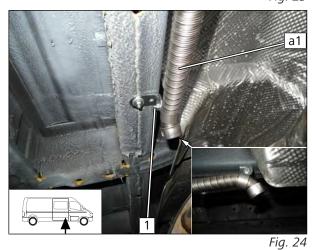
1 Angle bracket, large diameter washer, flanged nut



Mounting and routing exhaust pipe **a1**



Fig. 23



9.2 Exhaust variant 2 Mounting exhaust pipe a1

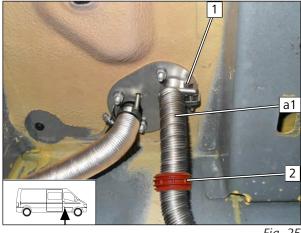


Fig. 25

Ensure sufficient distance from neighbouring components, correct if necessary.



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1 M6x20 bolt, pipe clamp, angle bracket, flanged nut



Ensure sufficient distance from neighbouring components, correct if necessary.



1 M6x20 bolt, pipe clamp, angle bracket, flanged nut

- **1** Hose clamp
- 2 Spacer bracket



Mounting angle bracket

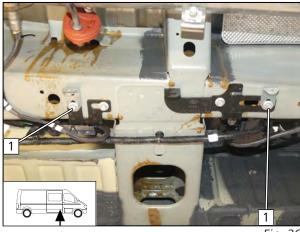


Fig. 26

Mounting and routing exhaust pipe **a1**

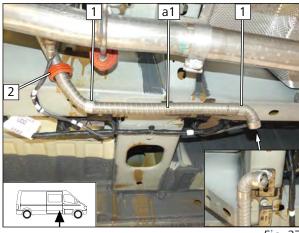
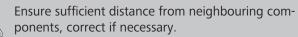


Fig. 27

1 Original vehicle bolt, angle bracket





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- 1 M6x20 bolt, pipe clamp, angle bracket, flanged nut
- 2 Spacer bracket



10 Fuel

10.1 Connecting and routing



DANGER

Risk of fire and explosion due to leaking fuel and escaping fuel vapours.

The incorrect installation of the fuel extractor can cause damage and fire.

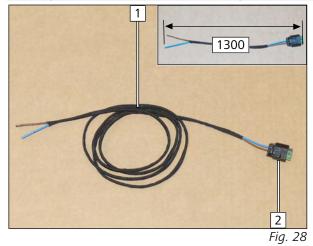
- Avoid electrostatic discharges and open fire
- ▶ When working on the fuel system, ensure sufficient ventilation and bleeding
- Open the fuel tank cap of the vehicle
- Ventilate the fuel tank
- Re-close the tank lock
- Catch any fuel running off with an appropriate container



Danger of damage to components

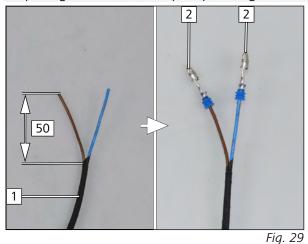
Install fuel line and fuel pump wiring harness so that they are protected against stone impact
 Provide rub protection for fuel line and wiring harness in areas where there are sharp edges

Cutting additional fuel pump wiring harness to length



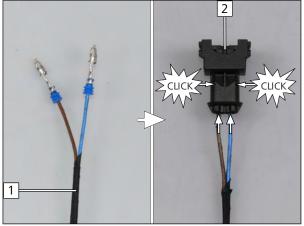
- ► Shorten additional fuel pump wiring harness 1 to 1300.
 - **2** Fuel pump connection plug

Preparing additional fuel pump wiring harness



- **1** Additional fuel pump wiring harness
- **2** Single-wire seal, socket contact

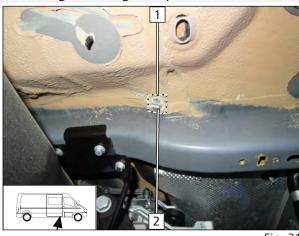




- **1** Additional fuel pump wiring harness
- 2 Female plug X17



Mounting retaining clamp



- ▶ Remove underbody protection an position **1**.
 - **2** Retaining clamp



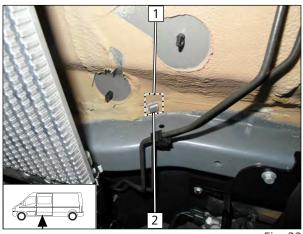
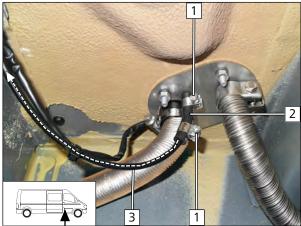


Fig. 32

- ▶ Remove underbody protection an position **1**.
 - 2 Retaining clamp



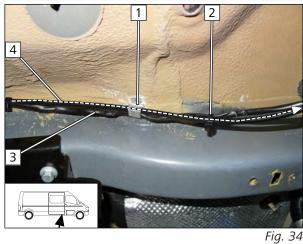
Connecting fuel line



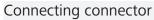
- **1** Ø10 clamp
- **2** Hose section
- **3** Fuel line, fuel pump wiring harness

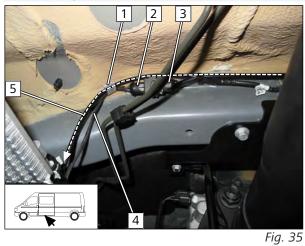


Routing fuel line



- Insert first fuel pump wiring harness 3 and then fuel line 4 in retaining clamp 1.
 - 2 Cable tie





- ► Connect connector X16 3 and connector X17 2.
 - **1** Retaining clamp
 - **4** Fuel pump wiring harness
 - **5** Fuel line



10.2 Fuel pump

Premounting fuel pump

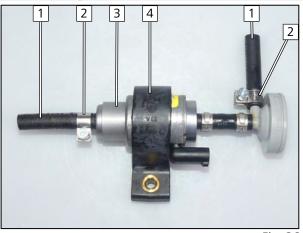
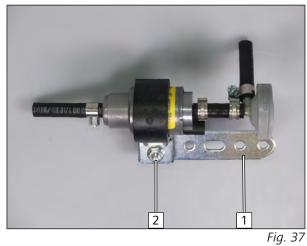
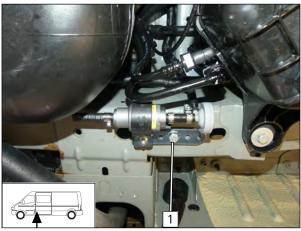


Fig. 36



Mounting fuel pump





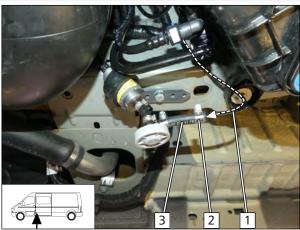
- **1** Hose section
- **2** Ø10 screw clamp
- **3** Fuel pump
- **4** Fuel pump mount

- 1 Perforated bracket
- 2 M6x25 bolt, support angle bracket, premounted fuel pump, flanged nut

1 M8x20 bolt with flange, perforated bracket, distance washer (5), existing threaded hole



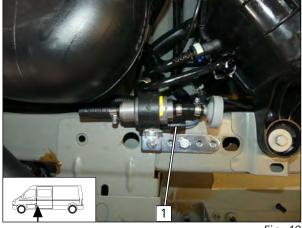
Fuel pump connection



- **1** Fuel line
- **2** Ø10 screw clamp
- **3** Hose section

Fig. 39

Mounting fuel pump connector





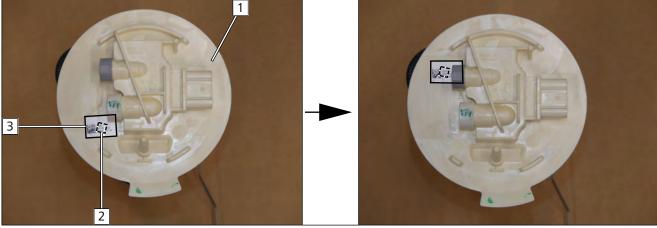
10.3 Tank extracting device



Dismantle tank and tank fitting in accordance with manufacturer's instructions.

Moving tank fitting labels

▶ Move labels **2** and **3** of tank fitting **1** as shown.

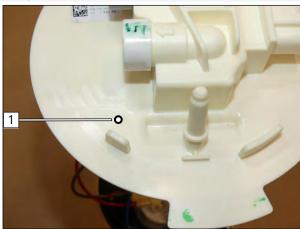




1 Fuel pump wiring harness, connector X17 mounted



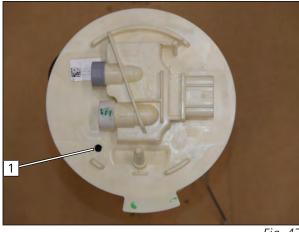
Copy hole pattern



► Copy hole pattern **1** in the middle of the embossing.

Fig. 42

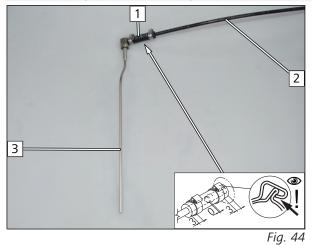
Drilling hole



1 Ø6 hole

Fig. 43

Premounting tank extracting device



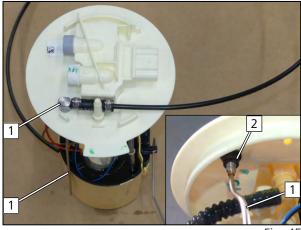
Observe the installation instructions of the tank extracting device.

▶ Bend tank extracting device **3** according to template and cut to length.

- **1** Hose section, Ø10 clamp [2x]
- 2 Fuel line



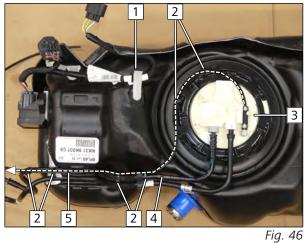
Installing tank extracting device



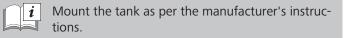
- **1** Tank extracting device
- **2** Locking nut



Inserting tank fitting



► Attach fuel line **5** with cable tie to original vehicle fuel line 4.

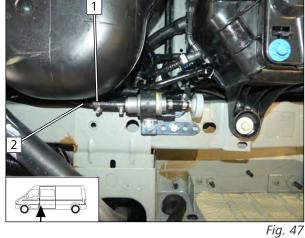


- **1** Fuel tank
- 2 Cable tie
- **3** Tank fitting

1 Ø10 screw clamp

2 Fuel line of tank extracting device

10.4 Connecting tank extracting device fuel line to fuel pump

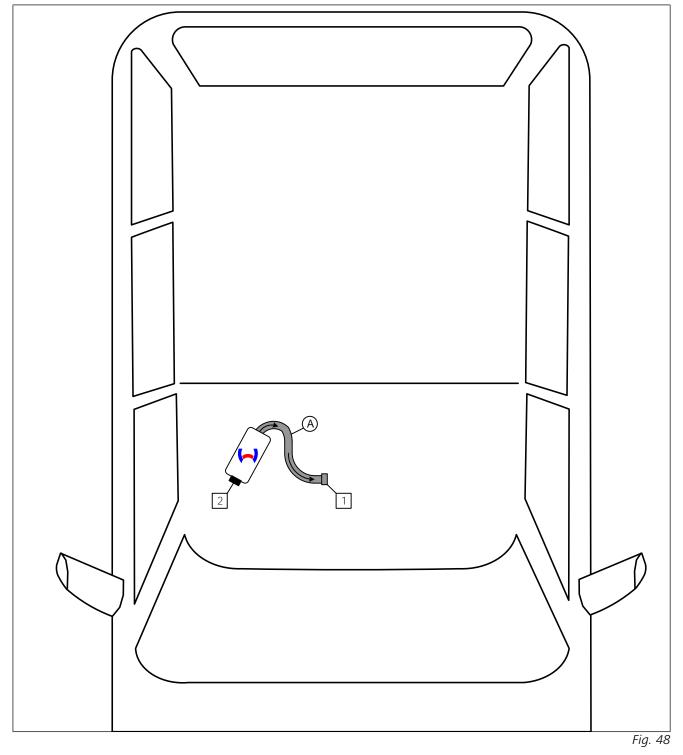






11 Hot air option A, cab heating

11.1 Hot air routing diagram



1 Hot air outlet; 2 Cover grille for hot air inlet



11.2 Hot air routing

Preparing seat trim



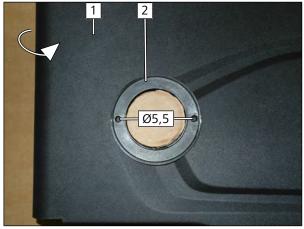
Fig. 49

Copying hole pattern and drilling hole



Fig. 50

Copying hole pattern of air outlet



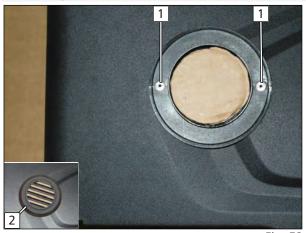


1 Left trim on the front passenger's seat

- **1** Left trim on the front passenger's seat
- **2** Air outlet, copy hole pattern



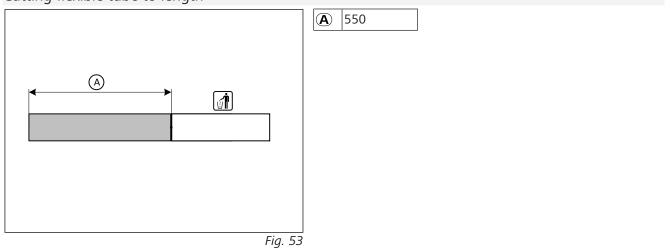
Mounting air outlet



- **1** Expanding rivet
- **2** Complete the air outlet

Fig. 52

Cutting flexible tube to length



Mounting flexible tube A

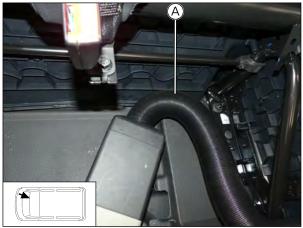


Fig. 54





Fig. 55

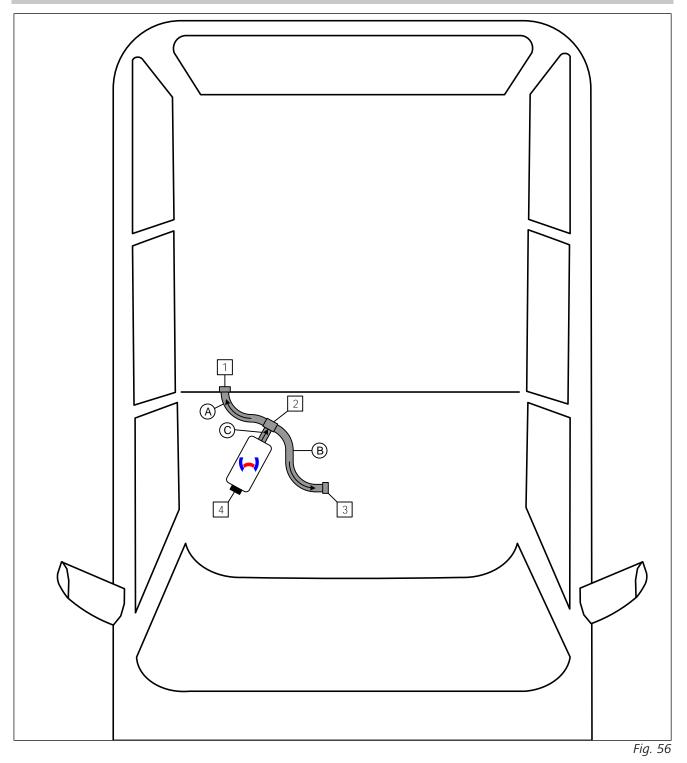
1 Hot air outlet



12 Hot air option B, with cargo space heating

12.1 Hot air routing diagram

The installation of a 45° air outlet in open position **1** and closable air outlet **3** should be confirmed with the end customer.

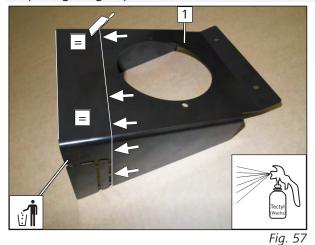


1 Cargo space air outlet; **2** T-piece; **3** Cabin air outlet; **4** Cover grille for hot air inlet

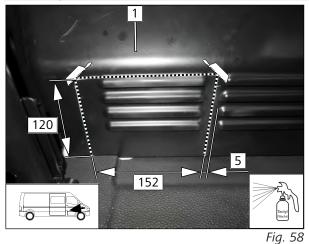


12.2 Hot air routing

Preparing cargo space air outlet bracket



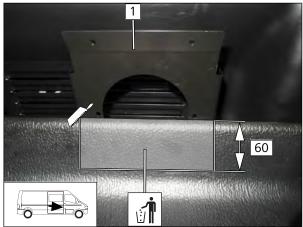
Adapting partition wall



1 Cargo space air outlet bracket

Cut rear panel on front passenger's side 1 at the markings. The bottom will be cut later!

Cutting out trim piece

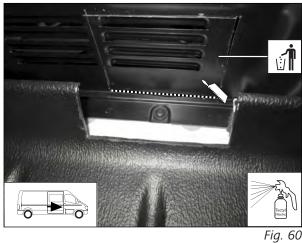




Position bracket 1 at the cutting line. Copy outer edges of bracket 1 onto trim.



Adapting partition wall



Fitting edge protection

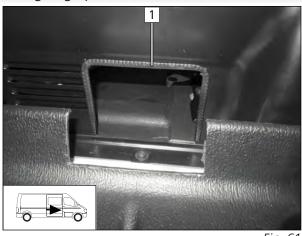
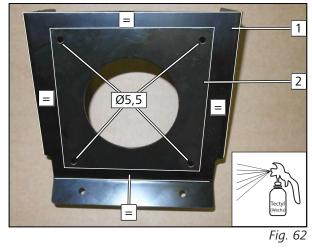


Fig. 61

Drilling holes in cargo space air outlet bracket

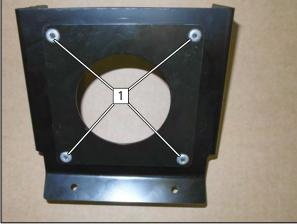


1 Edge protection

Position cargo space air outlet retaining plate 2 at the centre of cargo space air outlet bracket 1 as shown and copy hole pattern.

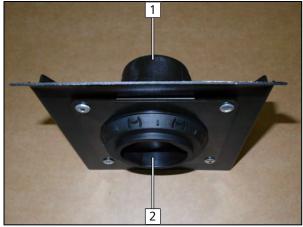


Premounting cargo space air outlet bracket





Premounting air outlet



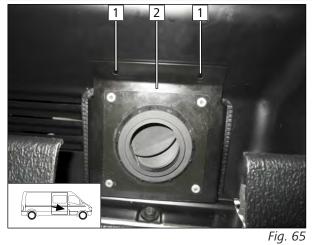
The installation of cover **2** should be confirmed with the end customer.

- **1** Socket
- **2** Cargo space air outlet

1 Expanding rivet

Fig. 64

Copying bracket hole pattern onto partition wall

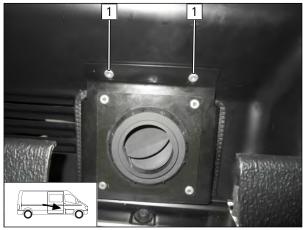


1 Ø5.5 hole

2 Cargo space air outlet bracket



Mounting air outlet bracket



1 Expanding rivet



Preparing seat trim



Fig. 67

Copying hole pattern and drilling hole

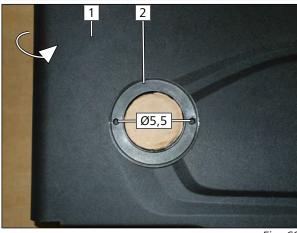


Fig. 68

1 Left trim on the front passenger's seat



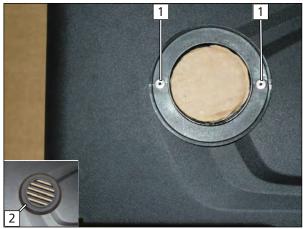
Copying hole pattern of air outlet



- 1 Left trim on the front passenger's seat
- **2** Air outlet, copy hole pattern



Mounting air outlet



- The installation of cover **2** should be confirmed with the end customer.
 - **1** Expanding rivet
 - **2** Complete the air outlet

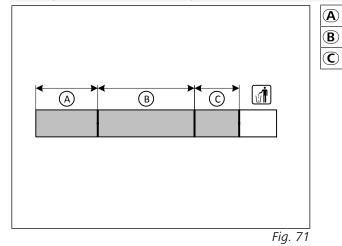
Fig. 70

380

470

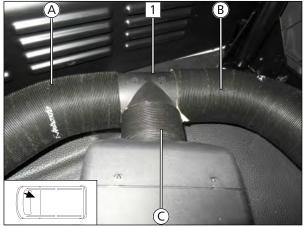
50

Cutting flexible tube to length

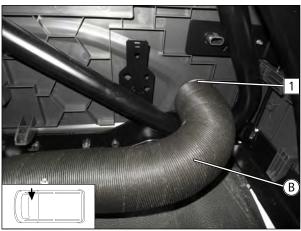




Mounting flexible tubes (A) , (B) and (C)









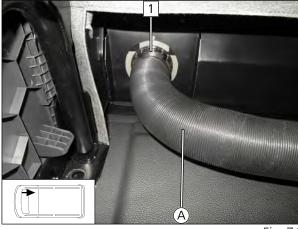


Fig. 74

1 60x60x60 T-piece

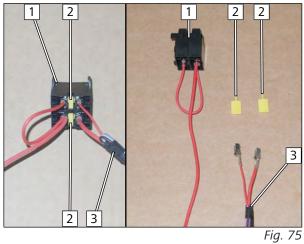
1 Cabin air outlet

1 Cargo space air outlet



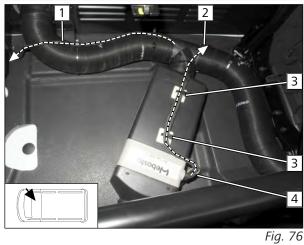
13 Electrical system

Removing SH2



- Detach HG wiring harness 3 from SH2 1.
 - 2 Secondary lock

Connection and routing of heater wiring harness



- Control element wiring harness
 HG wiring harness
 Adhesive base, cable tie
 - **3** Adhesive base, car
 - 4 HG connector

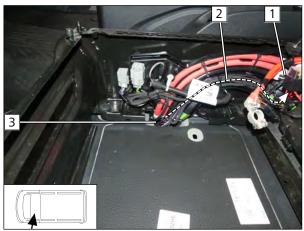
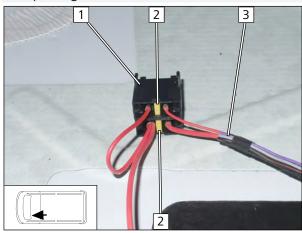


Fig. 77

- **1** SH2
- **2** HG wiring harness
- **3** Original vehicle cable duct

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-	+

Completing SH2



- **1** SH2
- 2 Secondary lock
- **3** HG wiring harness

Fig. 78

Drilling hole in battery box

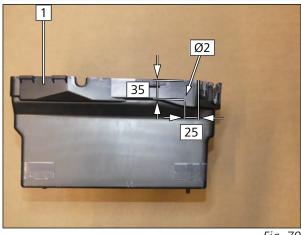


Fig. 79

Mounting retaining plate of SH2

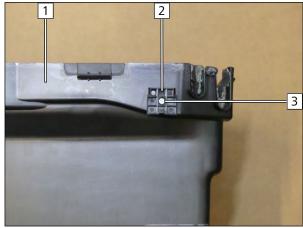


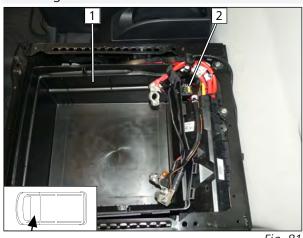
Fig. 80

1 Battery box

- **1** Battery box
- **2** Retaining plate SH2
- 3 Bolt

- +

Installing SH2



- **1** Battery box
- **2** SH2

Fig. 81

Connection of positive and negative wires to vehicle battery

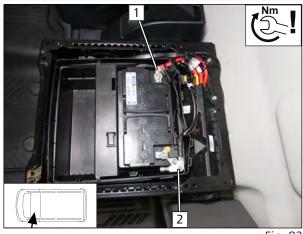


Fig. 82



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DANGER

Observe tightening torque

The Fig. shows the installation situation. The battery is connected during the final work phase.

- 1 Positive wire on positive support point
- **2** Negative wire on negative terminal

Electrical system of control element 14

14.1 **Setpoint sensor**

Removing storage compartment



- ▶ Remove left storage compartment.
 - **1** Setpoint sensor wiring harness

Fig. 83

Premounting cover frame



- ▶ Bend angle bracket **1** as shown and adapt it to the storage compartment.
 - 2 M4 bolt, washer, nut
 - **3** Control element cover frame

Fig. 84

Copying hole pattern and drilling holes

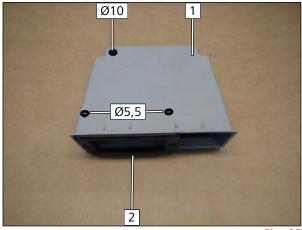


Fig. 85

- **1** Storage compartment
- **2** Control element cover frame



Mounting cover frame



- **1** Expanding rivet
- **2** Control element cover frame



Mounting storage compartment

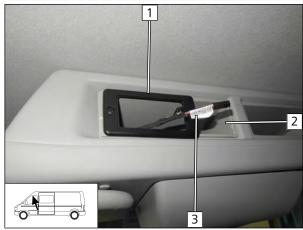


Fig. 87

Premounting setpoint sensor

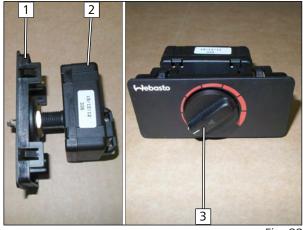


Fig. 88

- **1** Control element cover frame
- **2** Storage compartment
- **3** Setpoint sensor wiring harness

- **1** Trim piece
- **2** Setpoint sensor
- 3 Rotary knob

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Mounting setpoint sensor

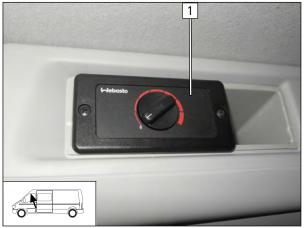
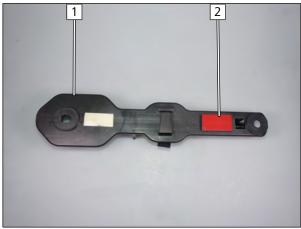


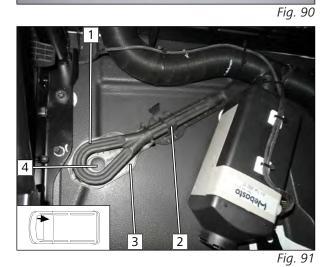
Fig. 89

1 Setpoint sensor

Final work for vehicle 15

Mounting towing eye





Mounting heat shield plate

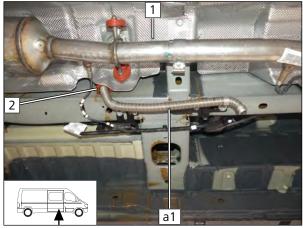


Fig. 92

- **1** Towing eye bracket
- **2** Double-sided hook-and-loop fastener

Mount bracket **3** as shown.

- **1** Towing eye
- 2 Close strap
- **4** Original vehicle clip

- **1** Heat shield plate
- **2** Aligning spacer bracket



16 Final work



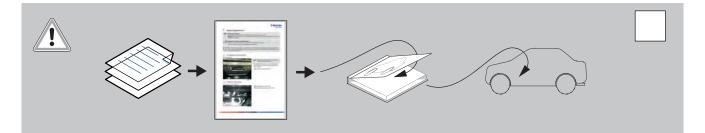
 (\rightarrow)

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

- Mount removed parts in reverse order
- ▶ Check all hoses, clamps and all electrical connections for firm seating
- Insulate and tie back loose lines
- Spray heater and electrical components with anti-corrosion wax (Tectyl 100K)
- Connect the battery

Further information can be found in the general installation and operating instructions of the Webasto components.

- Program MultiControl HD
- Initial start-up and function check
- ▶ Affix 'Switch off parking heater before refueling' caution label in area of filler neck



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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Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany

Company address: Friedrichshafener Str. 9 82205 Gilching Germany

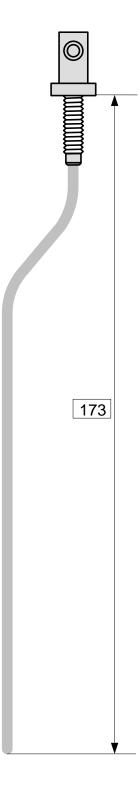
Technical Extranet: https://dealers.webasto.com

CE

WWW.WEBASTO.COM



17 Tank extracting device template for 70 L and 80 L



100mm



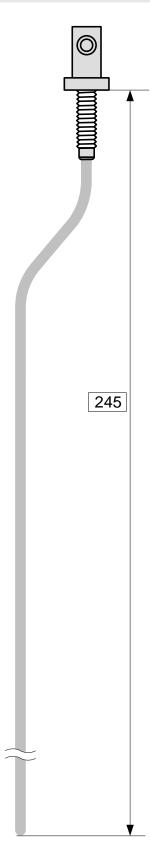
Set print option to custom scale on 100%. Check scale 1:1 for print output.

0

100mm



18 Tank extracting device template for 95 L



100mm



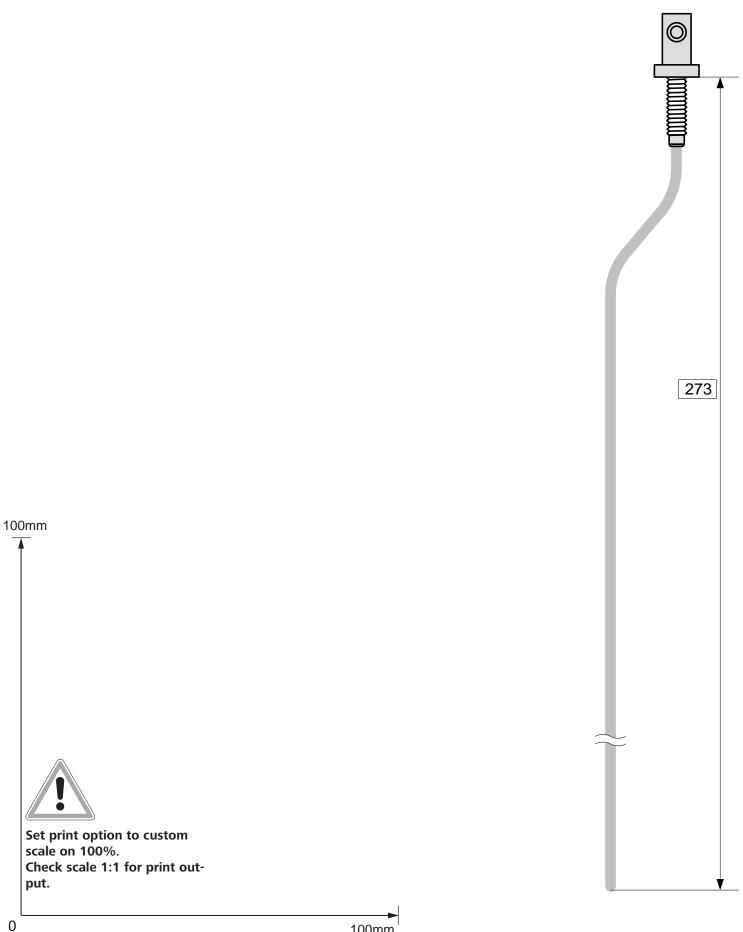
Set print option to custom scale on 100%. Check scale 1:1 for print output.

0

100mm



Tank extracting device template for 100 L 19



100mm



Operating instructions 20



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



Note for the continuous heating mode

If the heater will be used in the continuous heating mode we recommend the installation of a second battery and/or a sufficient charging current supply.



DANGER

Risk of fire or damage due to overheating

When loading the vehicle, please ensure that at the heater neither the intake side for hot air in front of the passenger seat nor the air outlet for hot air behind the seat are closed off or blocked.

Installation location of fuses 20.1

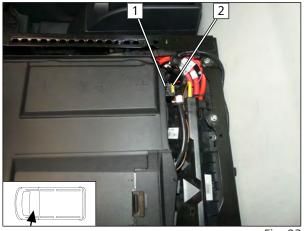


Fig. 93

- **1** Control element fuse F3: 1A
- 2 Heater fuse F1: 20A