Air heater



Air Top 2000 ST D Parking heater

e1 00 0022

Installation documentation

Ford Transit

Diesel from Model Year 2007 For left-hand drive vehicles only



WARNING!

Hazard warning:

Incorrect installation or repair of Webasto heating systems may cause a fire or result in the emission of carbon monoxide, which can be fatal. Serious or fatal injuries can be caused as a result.



Specialist company training, technical documentation, specialised tools and equipment are required to install and repair Webasto heating and cooling systems.

Only original Webasto parts must be used. For this, also see the catalog of air and water heater accessories from Webasto.

NEVER attempt to install or repair Webasto heating or cooling systems if you have not successfully completed the company training and thereby acquired the required technical skills, or if you do not have access to the required technical documentation, tools and equipment needed to carry out correct installation and repairs.

ALWAYS follow all Webasto installation and repair instructions and observe all warnings.

The initial startup is to be executed with the Webasto Thermo Test Diagnosis.

Webasto does not accept any liability for defects and damage that are attributable to installation by untrained staff.

Table of contents

Validity Foreword Heaters General instructions Special tools Explanatory Notes on Document Preliminary Work Heater installation location	2 2 3 3 4 5 5	Premounting heater Installing heater Exhaust system Fuel connection Combustion air Final Work	9 10 11 13 15 16
	-		
Preparing installation location	6		
Installing blade-type fuse holder	8		
Installing heater control Installing combination timer (option)	8 8		

Validity

Manufacturer	Model	Туре	EG-BE No./ ABE
Ford	Transit	F*6	e11 * 2001 / 116 * 0284 *
Ford	Transit	F*6	e11 * 2001/116 * 0286 *
Ford	Transit	F*6	e11 * 2001 / 116 * 0289 *
Ford	Transit	F*6	L743
Ford	Transit	F*6	L744
Ford	Transit	F*6	L758
Ford	Transit	FAC6	L742
Ford	Transit	FAA6	U/00945

Engine type	Engine model	Output in kW	Displacement in cm ³
P8FA	Diesel	63	2198
QVFA	Diesel	81	2198
SRFA	Diesel	85	2198
QVFA	Diesel	96	2198
PGFA	Diesel	103	2198
PHFA	Diesel	74	2402
JXFA	Diesel	85	2402
JFXC	Diesel	85	2402
H9FB	Diesel	103	2402
SAFA	Diesel	147	3198

Foreword

This installation documentation applies to Ford Transit vehicles with a Diesel engine from model year 2007 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded.

Vehicles and equipment variants, which are not listed in this installation documentation, have not been tested. However, installation according to this installation documentation may be possible. Depending on the version and the equipment variants of the vehicle, changes may be necessary relative to this "installation documentation" during installation and must be adjusted accordingly.

However, where this is the case, the stipulations in this "installation documentation" the "operating instructions" and "maintenance instructions" of the *Air Top 2000 ST* should be observed.

The installation location of heater controls and the routing of the air ducting parts must be coordinated with the final customer prior to installation!

WARNING!

Original load-bearing components of the vehicle and/or component used for crash safety may not be modified for the hot air and recirculating air ducting!

Heaters

Quantity	Description	Order No.:
1	Basic delivery scope Air Top 2000 ST	9022047A
1	Standard installation kit for Air Top 2000 ST	9022050A
1	Installation kit for Air Top 2000 ST Diesel Ford Transit	1311683B

Optional heater control either:

Quantity	Description	Order No.:
1	Combination timer	1311691A
1	Uniselector (setpoint encoder)	82819B

General instructions

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.

Sharp edges must be provided with rub protection (cut-open fuel hose)!

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

Special tools

- Torque wrench for 2.0 - 10 Nm

Explanatory Notes on Document

To provide you with a quick overview of the individual working steps, you will find an identification mark on the outside top right corner of the page in question.

Mechanical system

Electrical system

Hot air

Fuel

Exhaust gas

Combustion air

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Special features are highlighted using the following symbols:







Specific risk of injury or fatal accidents.

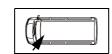
Specific risk of damage to components.

Specific risk of fire or explosion.

Reference to general installation instructions of Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.



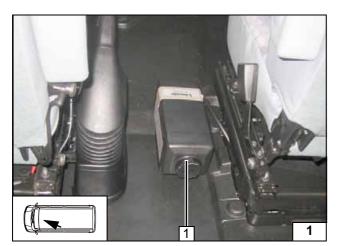
The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.



Preliminary Work

WARNING!

- Disconnect the battery "earth" or "ground" connection.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Remove the entrance trim on the driver's and front passenger side
- Remove the front passenger seat
- Detach the floor covering on the front passenger side
- Detach the A-pillar trim on the left (only when installing combination timer)
- Open the fuel tank cap and vent the fuel tank.
- Close the tank cap again.



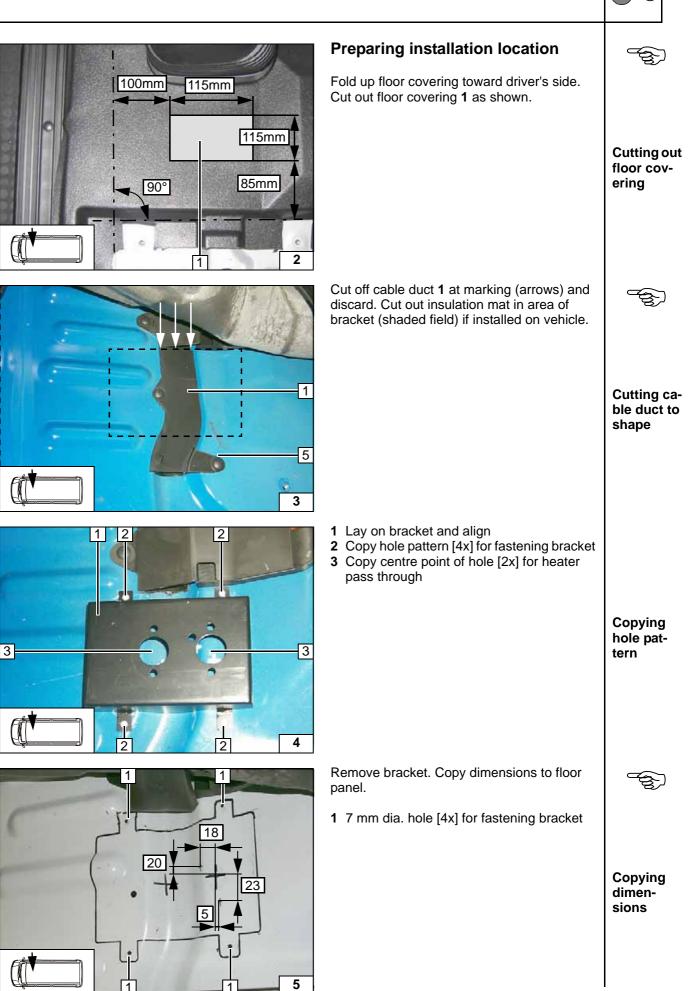
Heater installation location

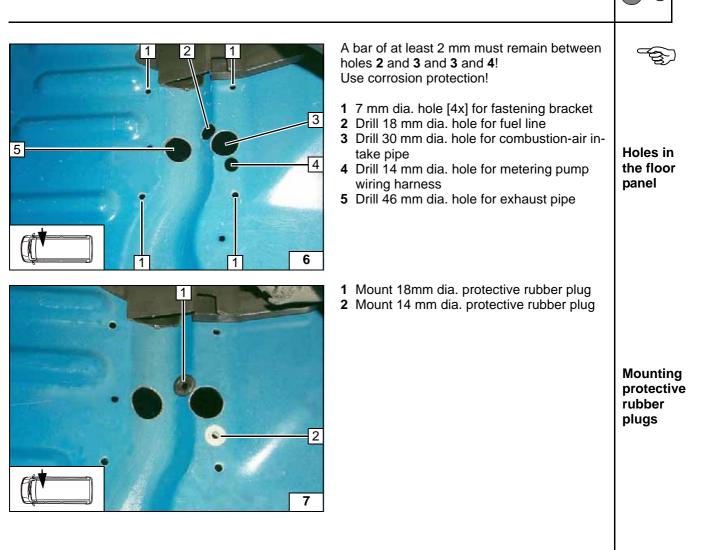
1 Heater

Installation location

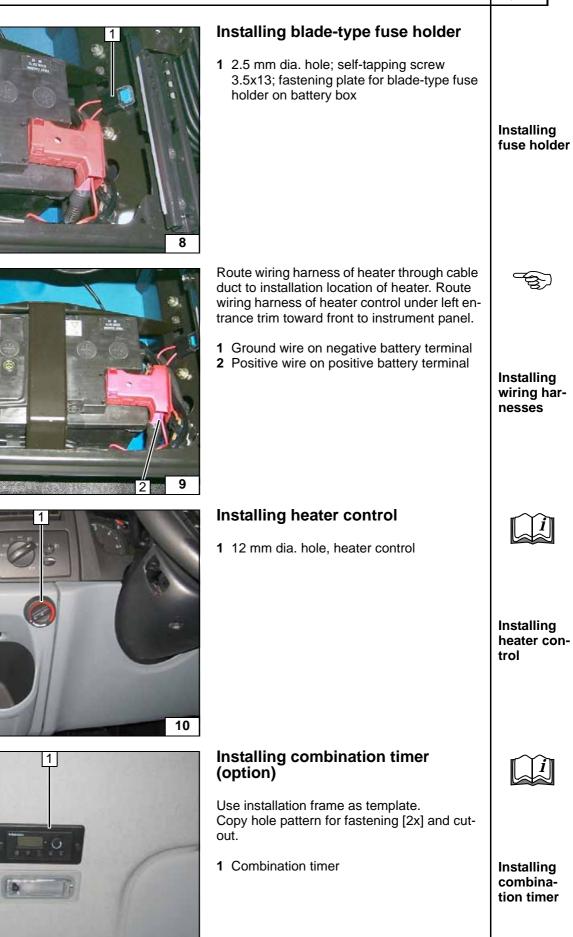


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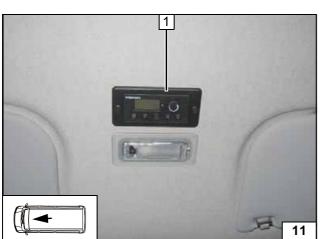






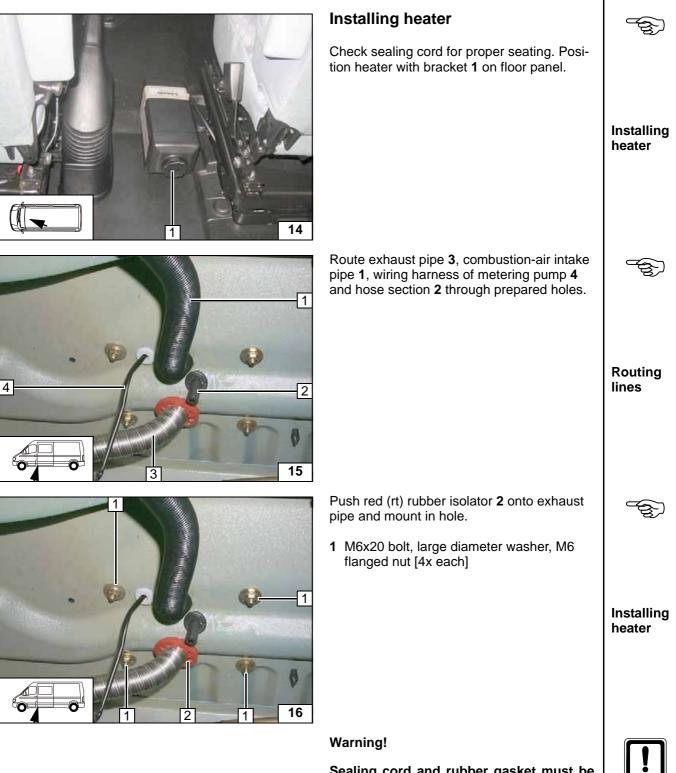


Installing heater con-

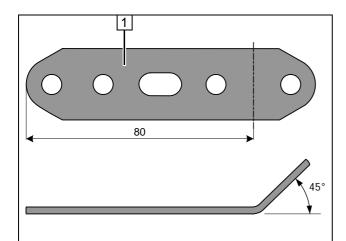


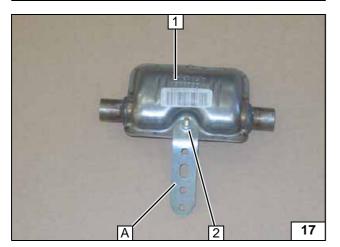
Ford Transit $\Box \Box 0$ **Premounting heater** 1 2 1 Exhaust pipe a = 650mm 2 Exhaust end section b = 50mm Preparing exhaust pipe b а First push on gasket 2. Install bracket with washers and nut on heater as described in installation instructions. 1 Bracket 2 Installing bracket 12 First route wiring harness of metering pump 5 3 2 through groove in combustion-air intake connection piece. **1** Combustion-air intake pipe, hose clamp 5 2 Hose section (cut to length to 70 mm), 10mm dia. hose clamp 3 Exhaust pipe, hose clamp Connect-4 Lay sealing cord in groove around circuming heater ference of heating unit bracket 13 4

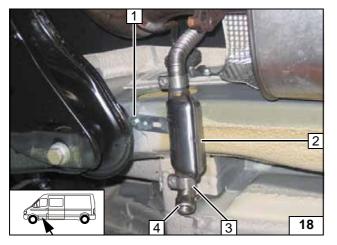
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Sealing cord and rubber gasket must be replaced after every removal.







1 75 90°

Exhaust system

1 Perforated bracket A

to template.

1 Muffler

fastening.

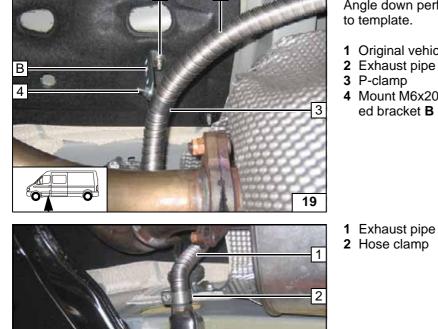
hole

3 Hose clamp

Angling down perforated bracket Angle down perforated bracket ${\boldsymbol{\mathsf{A}}}$ according ₹S} 2 M6x20 bolt, flanged nut Preassembling muffler Use existing hole in frame side member for T S 1 Mount M6x16 bolt, flanged nut in existing 2 Preassembled muffler 4 Exhaust end section Installing muffler 1 Perforated bracket B

> Angling down perforated bracket

(



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2

1

 Remove lock washer at position 1.
 Angle down perforated bracket B according to template.

 1 Original vehicle stud bolt
 Exhaust pipe

 3 P-clamp
 Installing exhaust pipe

 4 Mount M6x20 bolt, flanged nut on perforated bracket B
 Installing exhaust pipe

 1 Exhaust pipe
 Installing exhaust pipe

 1 Exhaust pipe
 Installing exhaust pipe

 1 Exhaust pipe
 Installing exhaust pipe

 2 Hose clamp
 Installing exhaust pipe

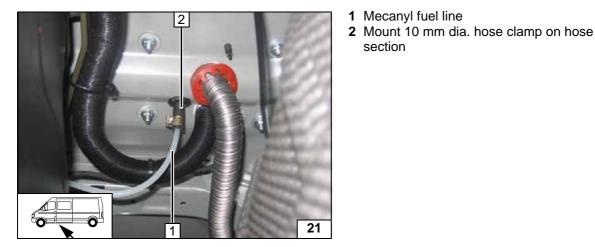
Fuel connection

CAUTION!

Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off with an appropriate container.

Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.



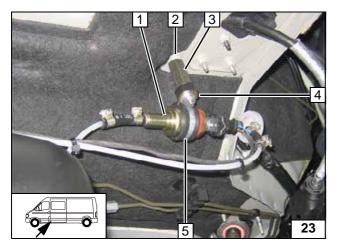
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Ensure proper installation position of metering pump, see "Installation Instructions". Installation location in front of vehicle fuel tank!

- 1 Metering pump wiring harness
- 2 Fuel line from heater

section





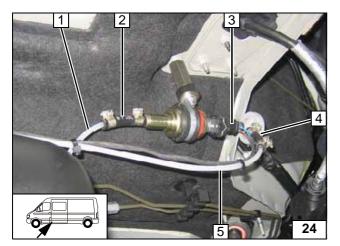
- 1 Metering pump
- 2 Original vehicle stud bolt
- 3 Spacer nut on stud bolt
- 4 Silent block, flanged nut
- 5 Rubber-coated pipe clamp

Installing metering pump



Connection to heater





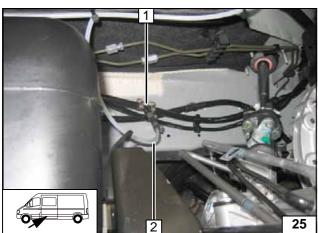
Fuel line from heater **5** on pressure side of metering pump [side with connector]. Fuel line to fuel standpipe **1** on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

- 2 Hose section, 10 mm dia. hose clamps [2x]
 3 Wiring harness of metering pump, single-
- 3 Wiring harness of metering pump, singlewire seal, tab connector, connector housing
- 4 Hose section, 10 mm dia. hose clamps [2x]

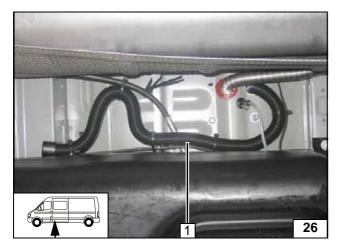
Separate fuel supply line at position **1**. Mount fuel standpipe with 2 12mm dia. hose clamps in cutting point.

2 Fuel line from metering pump, hose section, 10 mm dia. hose clamp [2x] on fuel standpipe

> Removing fuel







Combustion air

Route combustion-air intake pipe **1** as shown and fasten with cable ties.



Installing combustion air pipe

Final Work

WARNING!

Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose wires.

Only use manufacturer-approved coolant. Spray heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Adjust digital timer, try out Telestart sender
- Place signboard "Switch off parking heater before refuelling" in the area of the filling connecting piece
- See installation instructions for initial startup and function check





Webasto AG Postfach 80 D-82132 Stockdorf / Germany National Hotline: 01805 93 22 78 (14 Cent aus dem deutschen Festnetz) Hotfax: 0395 5592 353 Hotmail: hotline@webasto.de http://www.webasto.de