Water Heater Unit



Thermo Top C Additional Heater 00 0002

Installation Instructions

Ford Transit

2.2 liter dieselfrom Model Year 2007For left-hand drive vehicles onlyManual air conditioning



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, specialized tools and equipment are required to install and repair Webasto heating and cooling systems.

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.

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

Table of Contents

Foreword General Instructions Special Tools Explanatory Notes on Document	2 3 3 3 3 4 5	Preparing installation location Preparing heater unit Installing heater unit Exhaust system Coolant connection Fuel Connection Final Work	9 10 11 13 15 18 20
General Instructions	3	Exhaust system	13
Special Tools	3	Coolant connection	15
Explanatory Notes on Document	4	Fuel Connection	18
Preliminary Work	5	Final Work	20
Heater unit installation location	5	Operating Instructions for End Customer	21
Electrical Connections	6		
Fan controller	7		
Remote option (Telestart)	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	L744
Ford	Transit	F*6	L758
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

Vehicle and engine types, equipment variants and national specifications not listed in these installation instructions have not been tested. However, installation according to these installation instructions may be possible.

The installation location of a digital timer and summer/winter switch should be confirmed with the end customer before installation.

Heater Unit/Installation Kit

Quantity	Description	Order No.:
1	Delivery scope of Ford Transit 2.2 liter diesel without heater control	1311717A
	or	
1	Installation kit for Ford Transit 2.2 liter diesel in conjunction with <i>Thermo Top C</i> retail accessories	1311724A

Optional heater control either:

Quantity	Description	Order No.:
1	Digital timer	9010869A
1	Telestart T91	9016028A
1	Thermo-Call TC2	9016027A

Foreword

These installation instructions apply to Ford Transit 2.2 liter diesel vehicles - for validity, see page 2 - from model year 2007 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 these installation instructions.

However, where this is the case the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C* should be observed.

The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

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

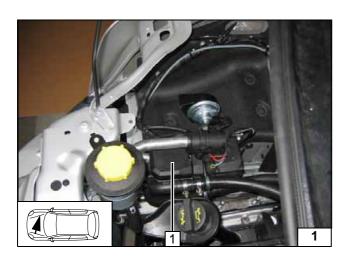
- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- Metric thread-setter kit

Preliminary Work

WARNING!

- Open the fuel tank cap and vent the fuel tank.
- Close the tank cap again.
- Disconnect battery "earth" or "ground" connection!
- Depressurize the cooling system!
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Remove the right-hand headlight
- Expose the central electrical box in the footwell of the front passenger side
- Detach the glove compartment and fold it downward (only with Telestart).

Remove page 21 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater unit installation location

1 Heater unit

Installation location

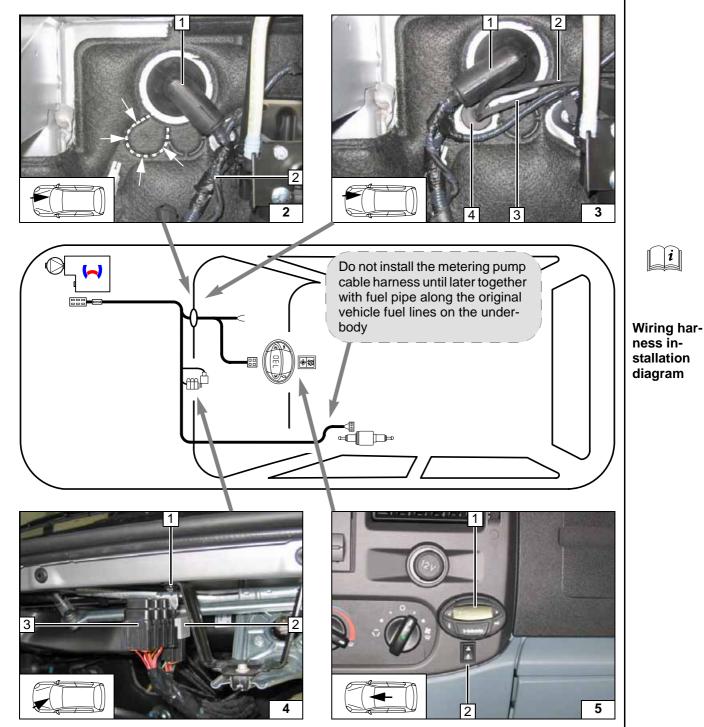
Electrical Connections

Preparing wiring harness pass through

Disconnect original vehicle wiring harness **2** and twist wiring harness pass through **1** to right as shown in illustration below. Cut out insulation mat at marking.

Wiring harness pass through

- 1 Wiring harness pass through turned
- 2 Wiring harness of fan controller
- **3** Wiring harness of digital timer
- 4 Original vehicle protective rubber plug



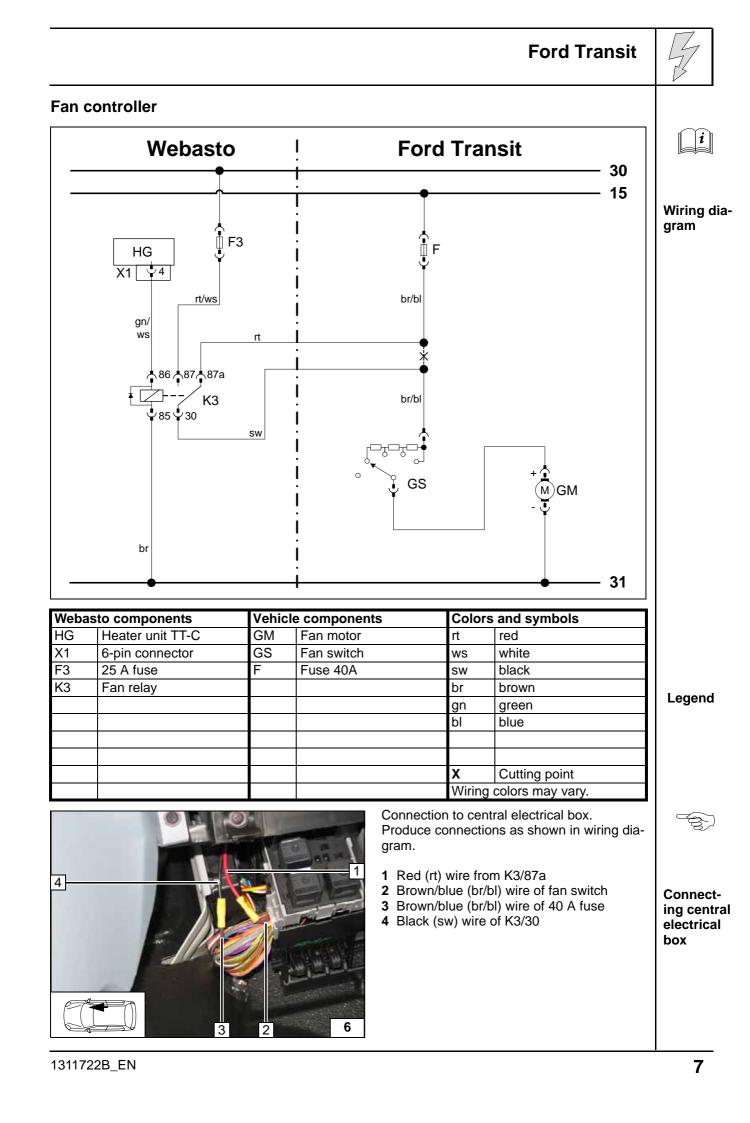
Digital timer and summer/winter switch option

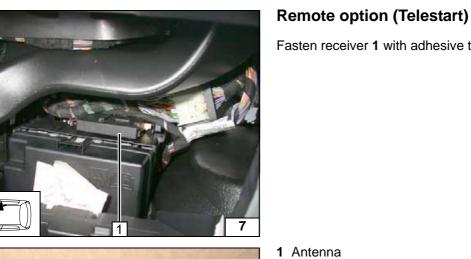
- 1 Digital timer
- 2 Summer/winter switch, drilled hole 12 mm dia.
- 2 K3 relay, M5x12 bolt, retaining plate of fuse holder, M5 flanged nut

1 Angle bracket, flanged nut on original vehicle bolt

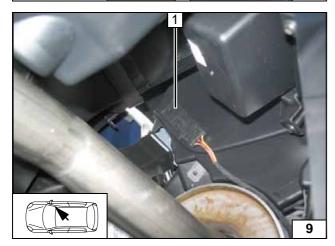
Fuse holder, K3 relay

3 Fuse holder









asten receiver 1 with adhesive tape.	
	Installing receiver
Antenna	
	Installing antenna

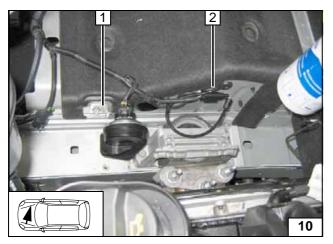
Temperature sensor HTM100

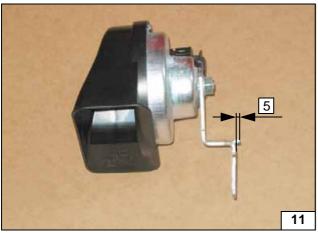
Fasten temperature sensor **1** with adhesive tape.

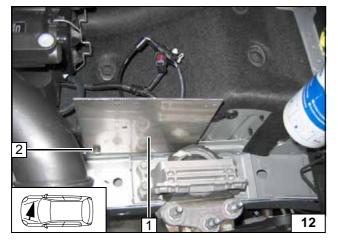


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Installing temperature sensor

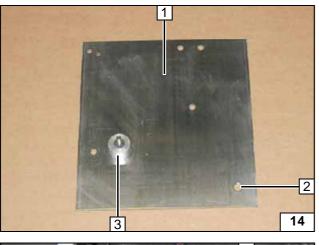


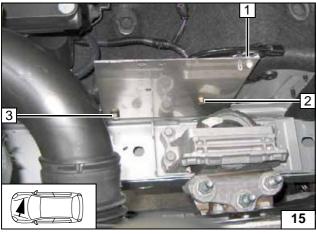


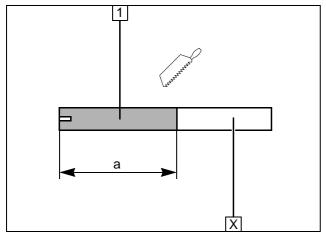


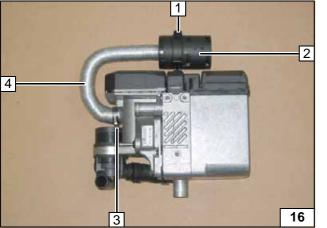
Removing horn
Preparing bracket
Loosely preassem- bling bracket
Copying hole pat- tern

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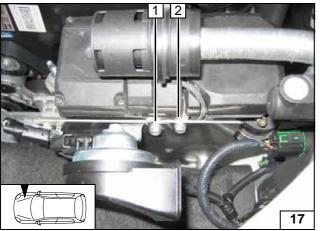


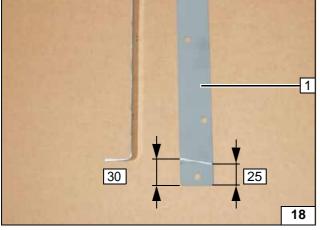


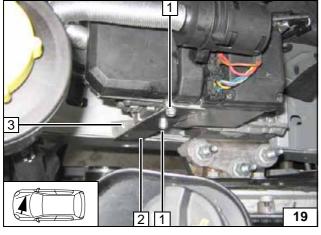


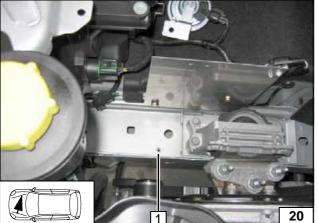
 Bracket Drill out 8 mm dia. hole 7 mm dia. hole, M6x30 bolt, 15 mm spacer sleeve of pin lock 	Preparing bracket
 Mount retaining clip of original vehicle wiring harness in hole Flanged nut on preassembled bolt M8x30 bolt, spring lockwasher, 15 mm spacer sleeve in existing threaded hole 	Installing bracket
Preparing heater unit	
1 Combustion air pipe a = 260	
Discard section X	Cutting combus- tion air pipe to length
Break through perforation on heater unit cov- er and mount retaining clip 1 .	i
 2 Muffler 3 27 mm dia. hose clamp 4 Combustion-air intake pipe 	Preassem- bling muf- fler

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Installing heater unit	
 Ejot screw, horn with bracket Ejot screw 	
	Loosely mounting heater unit
	neater unit
1 Angle down strut	
	Preparing strut
	Strut
 Ejot screw [2x] Strut Copy hole pattern 	
	Lasaki
	Loosely mounting strut
Remove heater unit with strut.	
1 Drill 9.1 mm dia. hole; install M6 rivet nut	
	Installing rivet nut

Insert two washers between heater unit and bracket at Position 3. First install Ejot screw at position 3.

- Ejot screw, horn with bracket
 Ejot screw
 Ejot screw, washer [2x]

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> Insert two washers between heater unit and strut at position 4.

1 Ejot screw

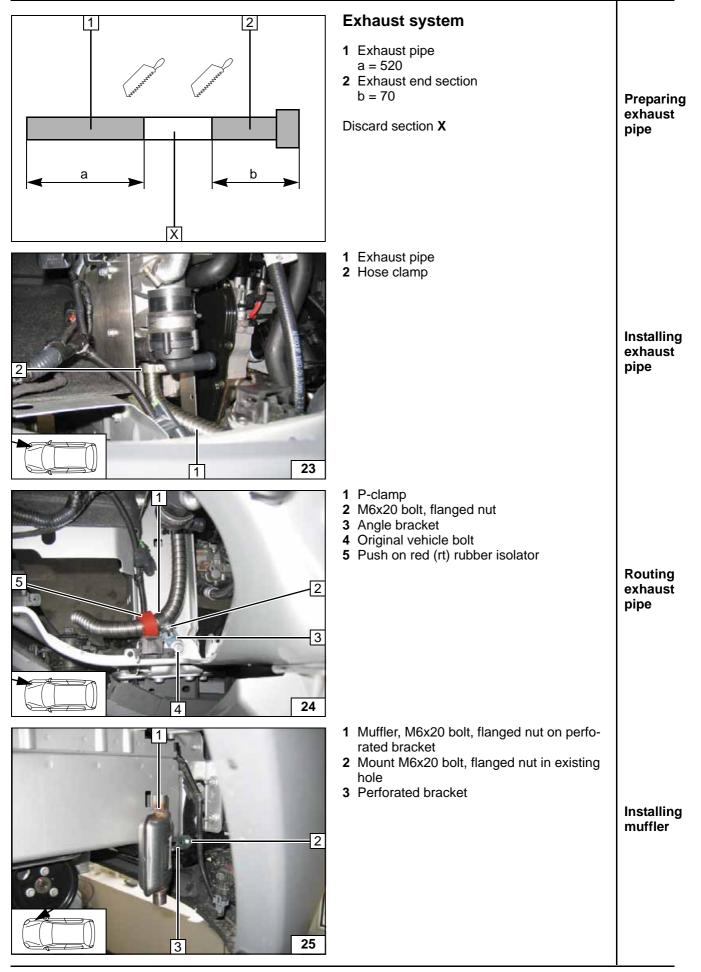
21

- 2 Push on wiring harness
- 3 Ejot stud
- **4** Ejot screw, washer [2x]
- 5 M8x50 bolt, spring lockwasher, 30 mm spacer sleeve in rivet nut

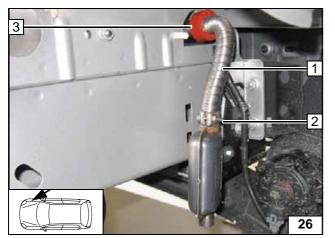
Installing strut

Installing heater unit

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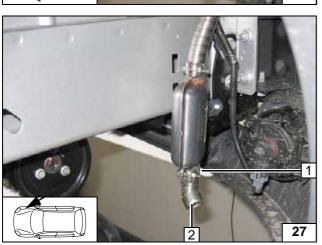
- Exhaust pipe
 Hose clamp
 Position red (rt) rubber isolator

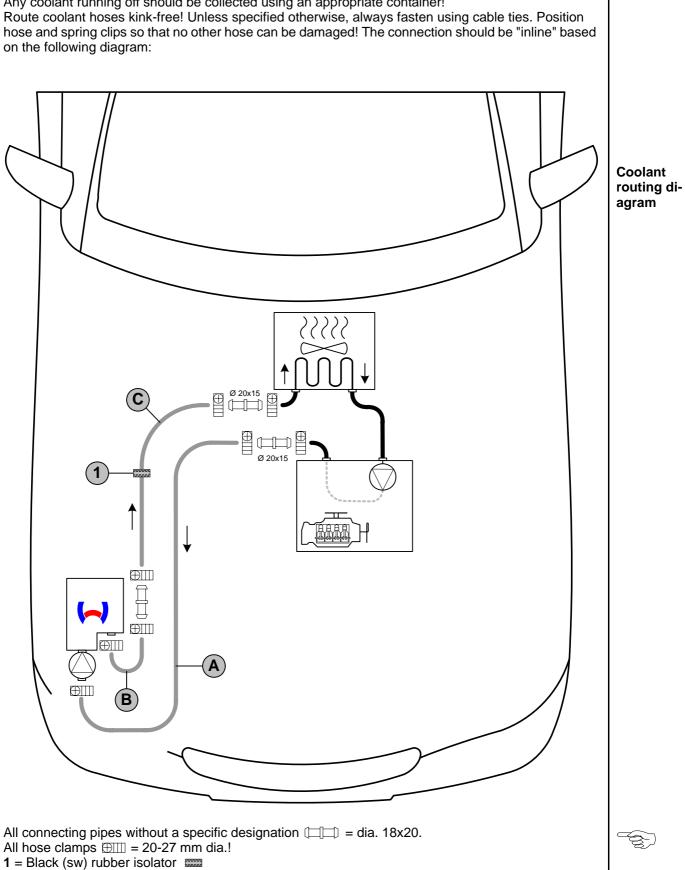
Installing exhaust pipe

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- Hose clamp
 Exhaust end section

Installing end section





Coolant connection

WARNING!

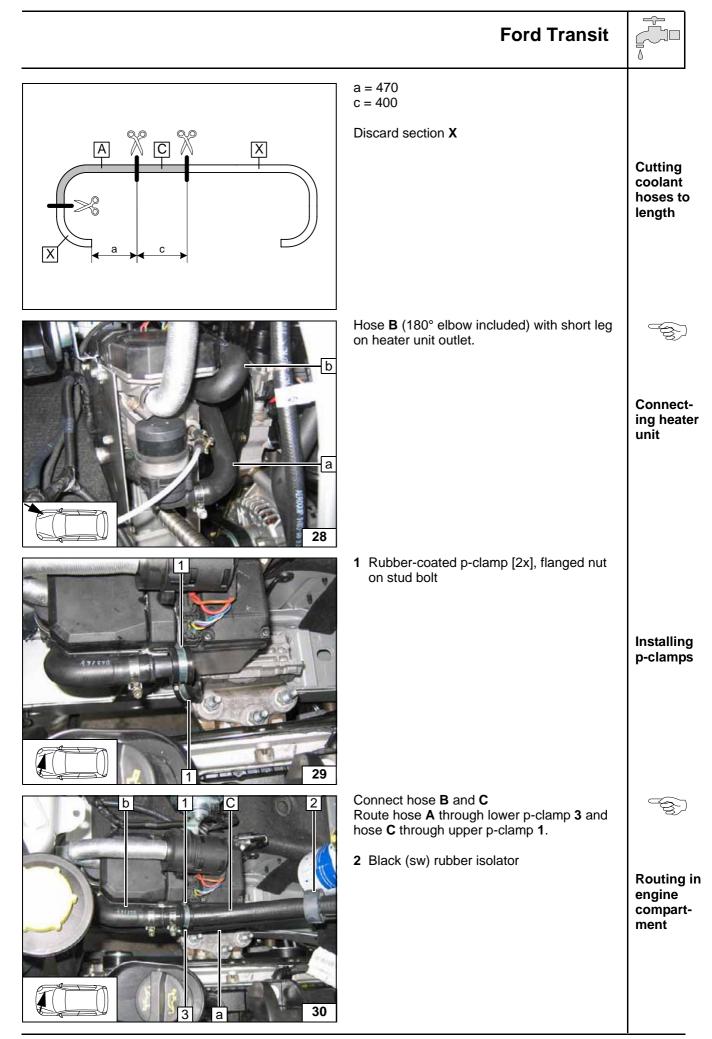
Tighten all hose clamps to 2.0 + 0.5 Nm. Any coolant running off should be collected using an appropriate container! Route coolant hoses kink-free! Unless specified otherwise, always fasten using cable ties. Position on the following diagram:

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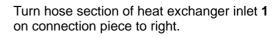
Ford Transit





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Ford Transit 1 Hose on engine outlet/heat exchanger inlet Cutting point



2 Engine outlet hose section

31

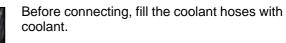
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3 Push on black (sw) rubber isolator and position

Connecting engine outlet



1 Spacer bracket

Connecting heat exchanger inlet

1

Fuel Connection

CAUTION!

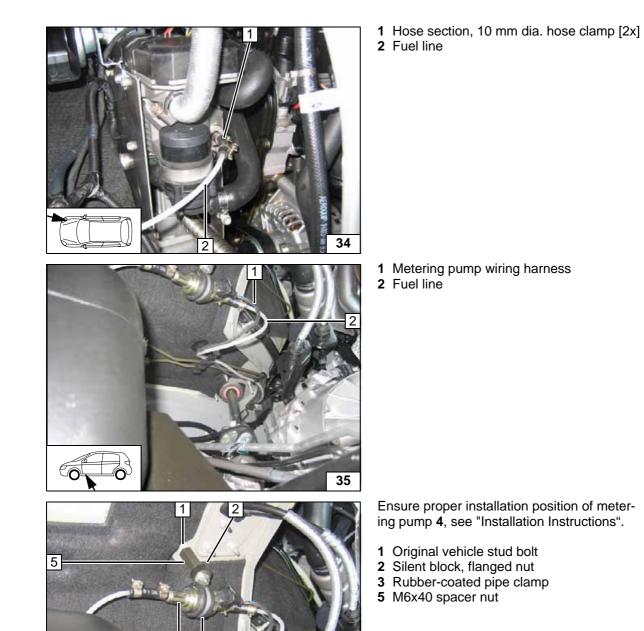
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.

WARNING!

The fuel line and wiring harness are routed to the metering pump in as shown in the wiring harness routing diagram.



36

Connecting heater unit

Installing lines

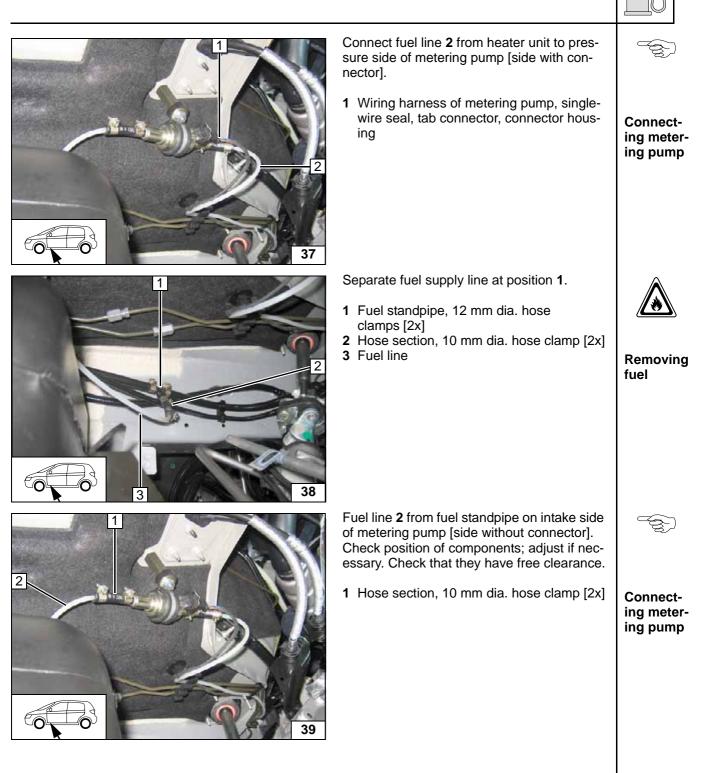
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Installing

metering pump

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Final Work

WARNING!

Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Secure all loose cables using cable ties. Only use manufacturer-approved coolant. Spray heater unit components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the digital timer.
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Check the proper operation of the additional heater, see the operating instructions/installation instructions.
- Attach the "Switch off additional heater before refueling" sticker to the left-hand B-pillar.



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