Water Heater



Thermo Top Evo Parking Heater



Installation Documentation Citroen C4 Picasso

Validity

Manufacturer	Model	Туре	EG-BE No. / ABE
Citroen	C4 Picasso	U	e2 * 2007 / 46 * 0040 *

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6 VTI	Petrol	SG	88	1598	5FS
1.6 VTI	Petrol	AG	88	1598	5FS
1.6 THP	Petrol	SG (EGS6)	115	1598	5FV / 5FR

SG = Manual transmission AG = automatic transmission

From Model Year 2011 Left-hand drive vehicle

Verified equipment vari-

ants:

Automatic air-conditioning

Front fog lights

Headlight washer systemFront fog lights

Not verified: Manual air-conditioning

Front fog lightsPassenger compartment monitoring

Total installation time: approx. 10.5 hours

Ident. No.: 1317488D_EN Status: 15.11.2013 © Webasto Thermo & Comfort SE

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Necessary Components

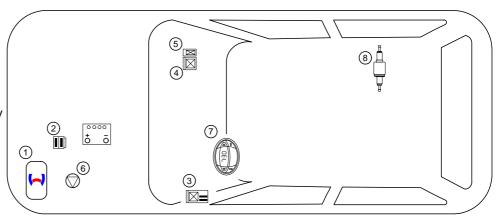
- Basic delivery scope of Thermo Top Evo based on price list
- Installation kit for Citroen C4 Picasso 2011 Petrol: 1317487A
- Heater control in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and in consultation with end customer

Installation Overview

Legend:

- 1. Heater
- 2. Fuse holder of engine compartment
- 3. Passenger compartment relay and fuse holder
- 4. IPCU
- 5. K2 relay
- 6. Circulating pump
- 7. Digital Timer
- 8. Metering pump

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Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting of 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.

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The total installation time may vary for vehicle equipment other than provided.

Information on Operating and Installation Instructions

1 Important notes (not complete)

1.1 Installation and repair



The improper installation or repairing of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.



Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel Diesel (DIN EN 590) or petrol (DIN EN 227).

The heater may not be cleaned with a high-pressure cleaner.

1.3 Please note

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

Important

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, 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, wires and wiring harnesses to original vehicle lines and wiring harnesses using cable ties. Insulate loose wires and tie back. Connectors on electronic components have to audibly click into place during installation.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components!

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

When installing an IPCU, the corresponding settings must be checked or adjusted before the installation.

2 Statutory regulations governing installation

Guidelines	Thermo Top Evo	
Heating Directive ECE R122	E1 00 0258	
EMC Directive ECE R10	E1 03 5627	

Note

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.

Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

Note

For vehicles with an EU permit, no entry in accordance with \S 19 Sub-Section 4 of Annex VIII b to the Road Traffic Act is required.

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2.1 Excerpt from the directive 2001/56/EC Appendix VII for the installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

- 2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.
- 2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

- 2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.
- 2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.
- 2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.
- 2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.
- 2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

- 2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage
- 2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled
- 2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

2.5. Combustion air inlet

- 2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.
- 2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

- 2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle source.
- 2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

- 2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.
- 2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

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In multilingual versions the German language is binding.

Information on Validity

This installation documentation applies to Citroen C4 Picasso Petrol vehicles - for validity, see page 1 - from model year 2011 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".

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.

Technical Information

Special Tools

- Hose clamp pliers for auto-tightening hose clamps
- · Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 6mm²
- Crimping pliers for cable lug / tab connector 0.5 6mm²
- Torque wrench for 2.0 10 Nm
- · Hose clamping pliers
- · Metric thread-setter kit
- Webasto Thermo Test Diagnosis with current software

Dimensions

• All dimensions in mm.

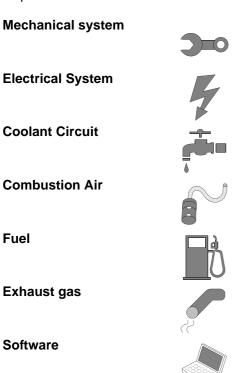
Tightening torque values

- Tightening torque values of 5x13 heater bolts = 8Nm.
- Tightening torque values of 5x15 retaining plate of water connection piece bolts = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-theart-technology.

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Explanatory Notes on Document

You will find an identification mark on the outside top right corner of the page in question to provide you with a quick overview of the individual working steps. Special features are highlighted using the following symbols:



Special risk of injury or fatal accidents.

Specific risk of damage to components.

Specific risk of fire or explosion.

Reference to general installation instructions of the Webasto component or to vehicle specific documents of the manufacturer

Reference to a special technical feature.

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













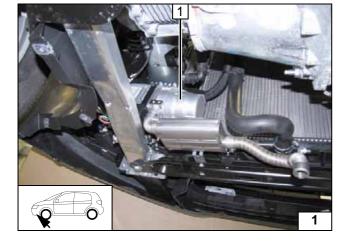
Preliminary Work

Vehicle

- · Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and completely remove the battery with carrier.
- Remove the air filter together with the intake hose.
- Remove the bracket of the air filter (original vehicle bolts will be reused).
- Remove the coolant reservoir cap.
- Remove the instrument panel at the centre of the storage compartment.
- Remove the lower and left instrument panel trim on the driver's side.
- · Remove the knee air bag.
- · Remove the glove compartment.
- Remove lower trim on front passenger's side.
- Remove the fuel tank and fuel-tank sending unit according to the manufacturer's instructions.
- Remove the underride protection.

Heater

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

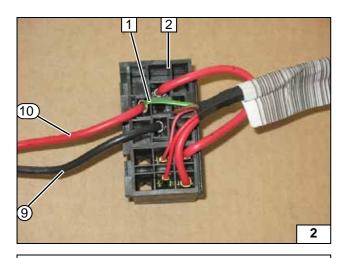


Heater Installation Location

1 Heater

Installation location





Preparing Electrical System

Detach/remove K1/86 contact. Remove contact on red (rt) 10 wire. Install wires as shown in following wiring diagram with contacts supplied.

- 1 Green/white (gn/ws) wire of K1/86
- 2 Relay and fuse holder of passenger compartment
- 9 Black (sw) wire from K1/30
- 10 Red (rt) wire of K1/86

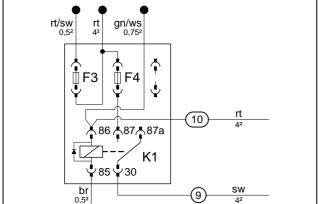
Insert F4 25A fuse.



Preparing passenger compartment relay and fuse holder

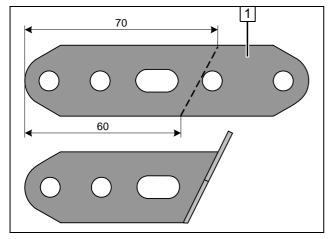


Inserting F4 and preparing K1 relay



1 Perforated bracket

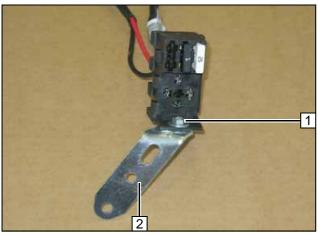




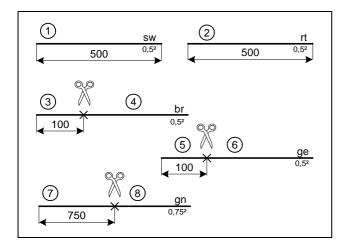
- 1 M5x16 bolt, large diameter washer [2x],
- 2 Perforated bracket angled down



Installing perforated . bracket



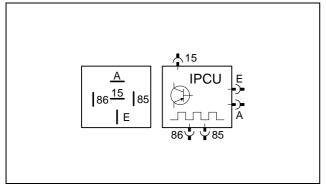




Wire sections retain their numbering throughout the entire document.



Cutting wires to length

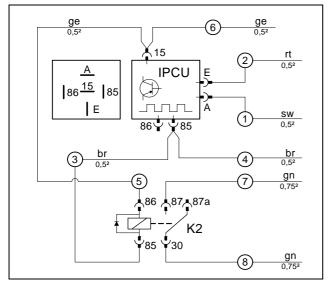


IPCU view on contact side.
The pre-programmed settings of the IPCU should be modified as follows:

1

Duty cycle: 31% Frequency: 400Hz Voltage: 10V Function: Low-side

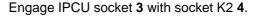
Preparing IPCU



Connect lines.



Premounting IPCU and K2 relay

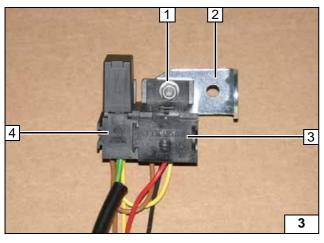




- 1 M5x12 bolt, large diameter washer, flanged nut
- 2 Angle bracket

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Installing angle bracket



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Electrical System

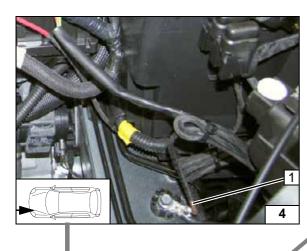
Earth wire

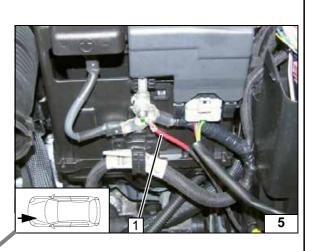
1 Earth wire on original vehicle earth point

Positive wire

1 Positive wire on positive battery distributor



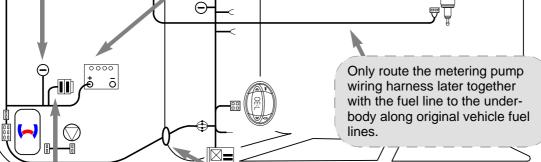


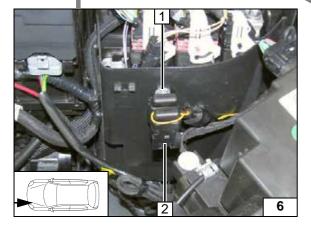






Wiring harness routing diagram







Fuse holder of engine compartment

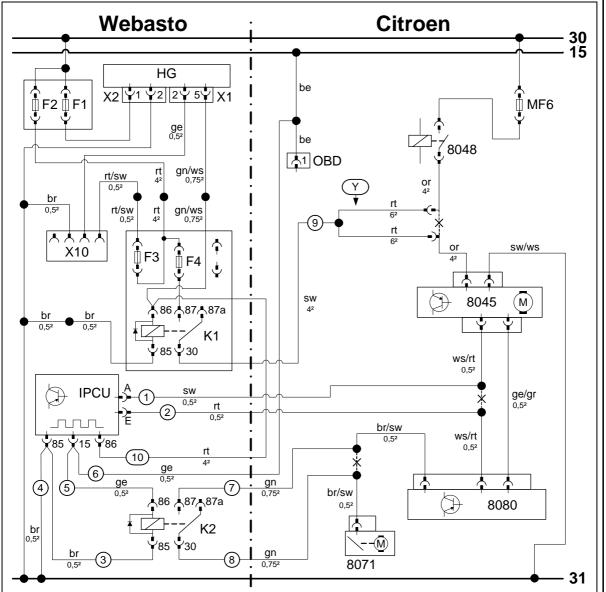
- 1 5.5 mm dia. hole; M5x16 bolt, washer [2x], retaining plate of fuse holder, nut
- **2** F1-2 fuses

Wiring harness pass through

1 Protective rubber plug (locate from the passenger compartment)



Fan Controller



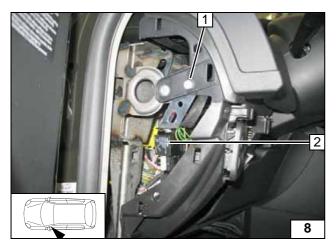
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Wiring diagram

Webasto components		Vehicle components		Colo	Colours and symbols	
HG	TT-Evo heater	MF6	Fuse	rt	red	
X1	6-pin heater connector	8048	Fan relay	sw	black	
X2	2-pin heater connector	OBD	Onboard Diagnosis	ge	yellow	
X10 4-pin connector		8045	Fan module	gn	green	
	of heater control	8080	A/C control unit	ro	pink	
K1	Fan relay	8071	Air distribution	WS	white	
F1	20A fuse			br	brown	
F2	30A fuse			gr	grey	
F3	1A fuse			or	orange	
F4	25A fuse			be	beige	
K2	Additional relay					
IPCU	Pulse width modulator					
IPCU adjustment values:						
Duty cycle: 31%						
Frequency: 400Hz				Υ	Wiring adapter	
Voltage: 10V X Cutting		Cutting point				
Functi	unction: Low-side Wiring colours may vary		ng colours may vary.			

Legend



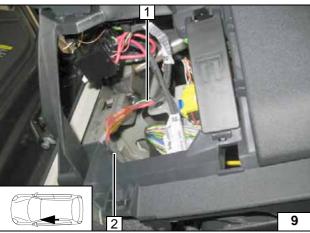


6.5 mm dia. hole at position 1.

- M6x20 bolt, large diameter washer, flanged nut
- 2 Relay and fuse holder of passenger compartment



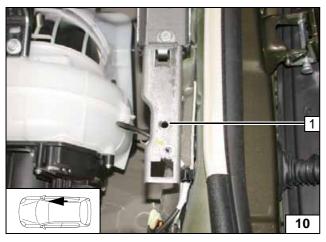
Mounting passenger compartment relay and fuse holder



Connect wiring harness of passenger compartment relay and fuse holder 1 to wiring harness of heater 2 according to wiring diagram, in such a way that the wires of the same colour are connected to each other.



Connecting wiring harnesses



1 6.5 mm dia. hole





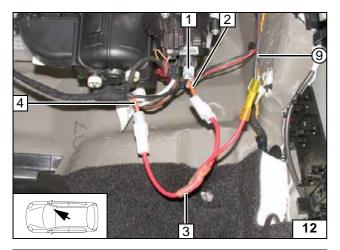
Before installing, connect red (rt) wire 10 to IPCU/86.



1 M6x20 bolt, flanged nut

Installing IPCU and K2 relay





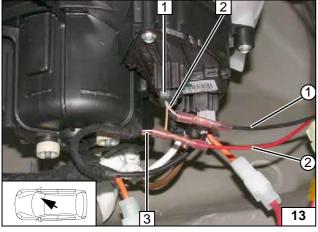
Connection to 2-pin connector **1** from the fan module.

Produce connections as shown in wiring diagram.

- 2 Orange (or) wire of 2-pin connector
- 3 Wire adapter Y
- 4 Orange (or) wire of fan relay
- 9 Black (sw) wire from K1/30

Connection to fan

module



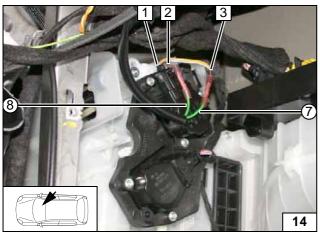
Connection to 2-pin connector **1** from the fan module.

Produce connections as shown in wiring diagram.

- 2 White/red (ws/rt) wire of 2-pin connector
- 3 White/red (ws/rt) wire of A/C control unit
- 1 Black (sw) wire from IPCU/A
- 2 Red (rt) wire from IPCU/E

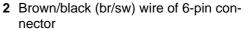


Connection to fan module



Connection to 6-pin connector 1 from valve motor

Produce connections as shown in wiring diagram.



- 3 Brown/black (br/sw) wire of A/C control unit
- (7) Green (gn) wire from K2/87
- 8 Green (gn) wire from K2/30



Connection of valve motor



- 1 Original vehicle bolt
- 4 Brown (br) wire of IPCU and K2

Earth connection of IPCU and K2





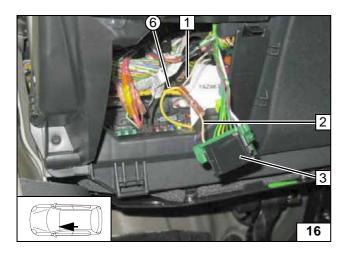




Connection to OBD socket outlet 3. Produce connections as shown in wiring dia-

- Beige (be) wire of Terminal 15
 Beige (be) wire of OBD socket outlet, pin 1
 Yellow (ge) wire of IPCU/15

Connection of terminal 15



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Digital Timer

1 Digital timer



Installing digital timer

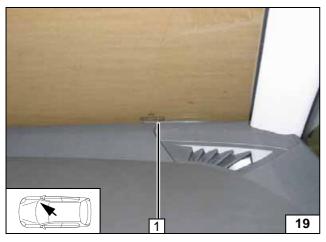


Remote Option (Telestart)

Fasten receiver 1 with adhesive tape.

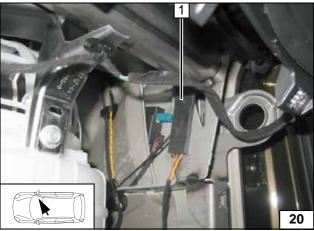


Installing receiver



1 Antenna

Installing antenna



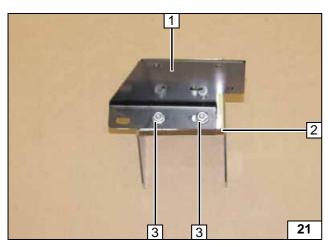
Temperature sensor T100 HTM

Fasten temperature sensor 1 with adhesive



Installing temperature sensor





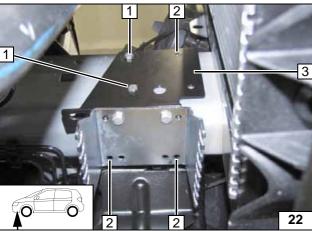
Preparing Installation Location



Insert one 5 mm shim each between retaining plate 1 and bracket 2 at position 3.

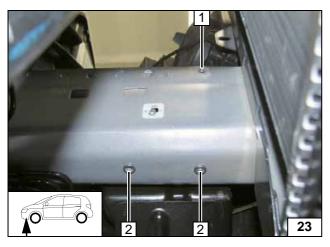
3 M6x16 bolt, 5mm shim, flanged nut [2x each]

Premounting bracket



- 1 M6x20 bolt, existing threaded hole [2x each]
- 2 Copy hole pattern [3x]
- 3 Install retaining plate loosely

Copying hole pattern



Remove retaining plate with bracket.



- 1 7 mm dia. hole
- 2 9.1mm dia. hole; rivet nut [2x each]

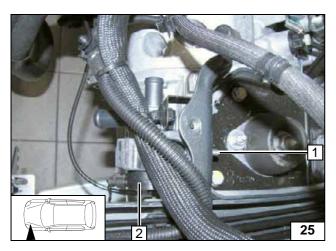
Installing rivet nuts



- 1 Circulating pump mounting
- 2 Circulating pump
- 3 Wiring harness of circulating pump

Premounting circulating pump



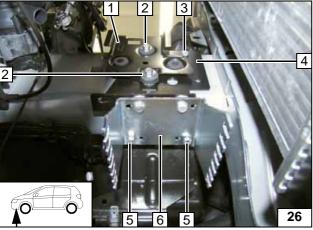


Remove original vehicle bolt at position 1 and discard.

- 1 M6x25 bolt, existing threaded hole
- 2 Circulating pump



Mounting circulating pump

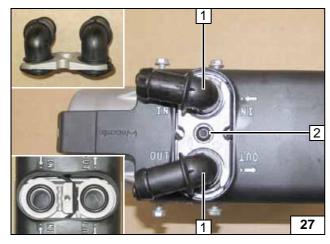


Insert one 20 mm shim each between bracket **6** and frame side member at position **5** .



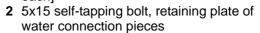
- 1 Bracket of air filter
- 2 Original vehicle bolt [2x] bracket of air filter
- 3 M6x16 bolt, flanged nut
- 4 Retaining plate
- 5 M6x40 bolt, spring lockwasher, 20mm shim





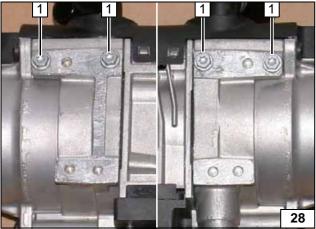
Preparing Heater







Installing water connection pieces

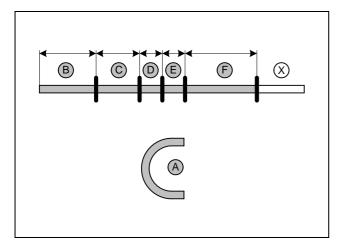


Screw 5x13 self-tapping bolts **1** [4x] into existing holes by a maximum of 3 thread turns.



Premounting bolts loosely



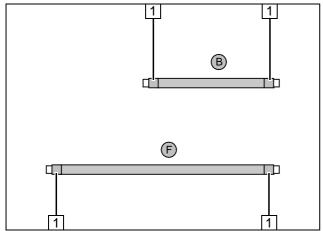


Discard section X. Hose **A** = 18mm dia., 180° moulded hose

350 C =170 60 **E** = 60 670



Cutting hoses to length

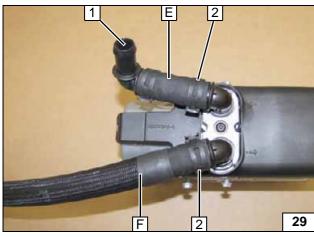


Push braided protection hoses onto hose ${\bf B}$ and F and cut to length. Cut heat shrink plastic tubing to size.

1 50 mm long heat shrink plastic tubing [4x]

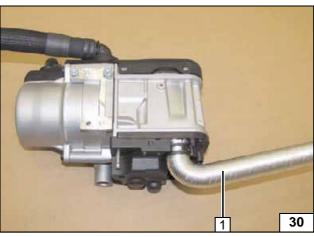


Preparing hoses



- 1 90°, 18x18mm connecting pipe, 25mm dia. spring clip
- 2 25mm dia. spring clip [2x]

Premounting hose

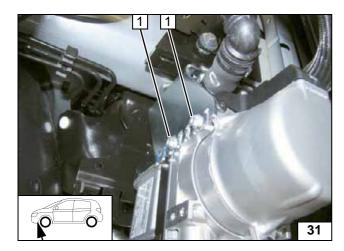


1 Combustion air pipe

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Premounting combustion air pipe

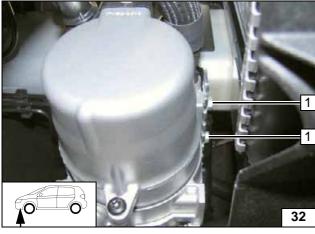




Installing Heater

1 Tighten 5x13 self-tapping bolt [2x]

Installing heater



1 Tighten 5x13 self-tapping bolt [2x]

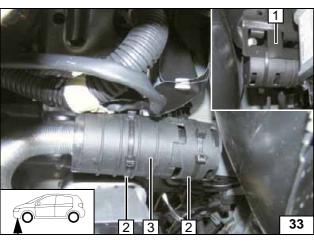
Installing heater







Mounting silencer



- 34

Combustion Air

1 ABS bracket 2 Cable tie [2x each]

3 Silencer

1 Wiring harness of heater [2x]2 Wiring harness of circulating pump

Installing wiring harnesses



Coolant Circuit

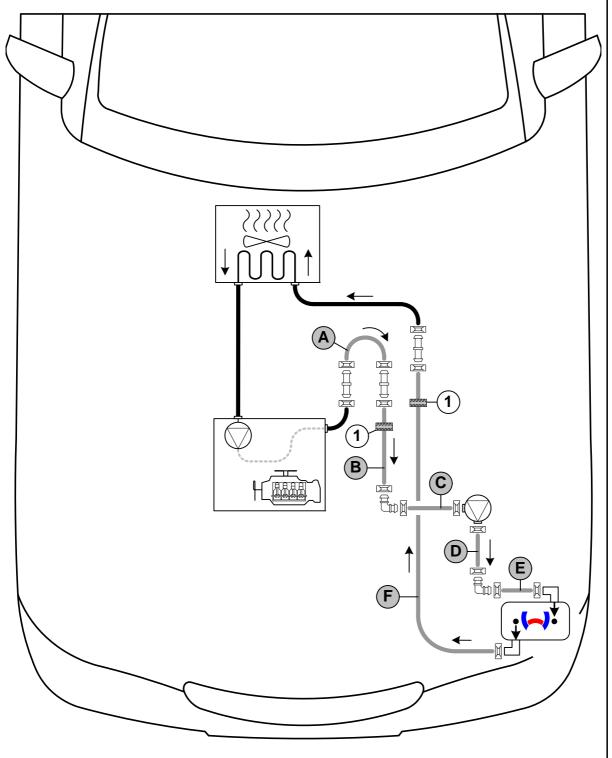
WARNING!

Any coolant running off should be collected in an appropriate container. Route hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. When installing the hoses, the heater must be filled with coolant.

The connection should be "inline" based on the following diagram:



Hose routing diagram

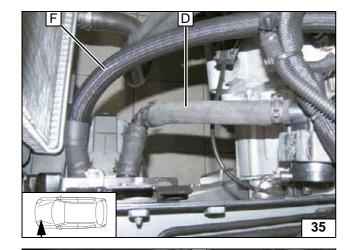


Status: 15.11.2013

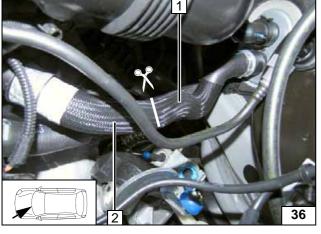
All spring clips = 25 mm dia. **1** = Black (sw) rubber isolator = [2x]. All connecting pipes = and = 18x18 mm dia.







Connecting circulating pump

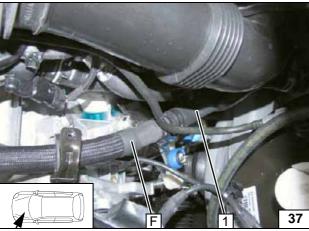


Cut off hose on engine outlet/heat exchanger inlet at marking. Remove braided protective hose from both hose sections.



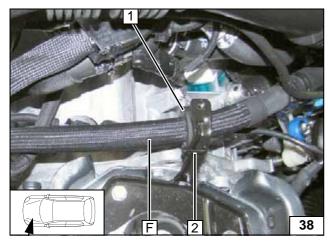
- 1 Hose section of heat exchanger inlet
- 2 Hose section of engine outlet

Cutting point



1 Hose of heat exchanger inlet

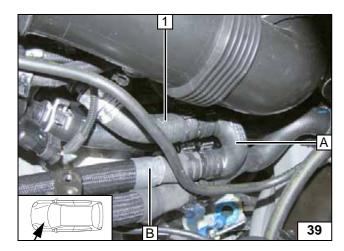
Connection on heat exchanger inlet



- 1 Slide on black (sw) rubber isolator and align
- 2 Cable tie

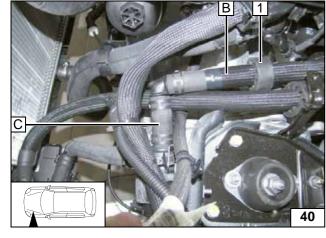
Routing in engine compart-ment





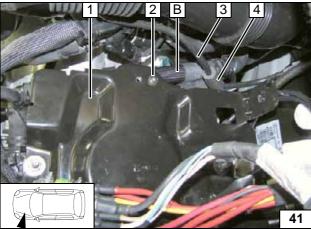
1 Hose of engine outlet

Connecting engine outlet



1 Slide on black (sw) rubber isolator and position

> Connecting circulating pump



Shorten original vehicle bolt **2** by 5mm. Wind vacuum line **3** with rub protection **4**. Align hoses. Ensure sufficient distance from neighbouring components.

1 Battery carrier



Installing battery carrier



Fuel

CAUTION!

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

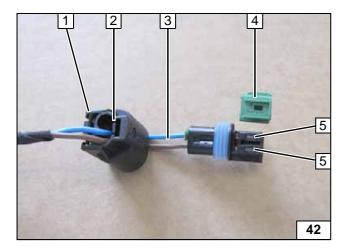
Catch any fuel running off in an appropriate container.

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.

WA DNING!

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

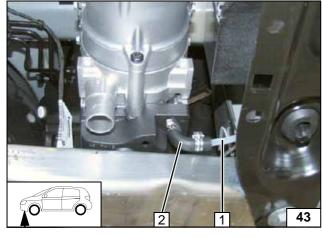


Complete connector of metering pump after routing. Pin assignment is not relevant.

- 1 Connector housing
- 2 Lock
- 3 Blue / brown (bl / br) wires
- 4 Coding
- 5 Timer lock

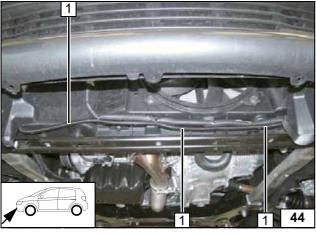






- 1 Fuel line
- 2 Hose section, 10mm dia.clamp [2x]

Connecting heater

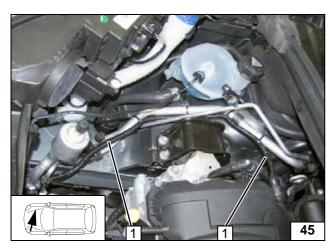


Route fuel line and wiring harness of metering pump into 2100mm corrugated tube 1 to the right vehicle side.



Routing lines

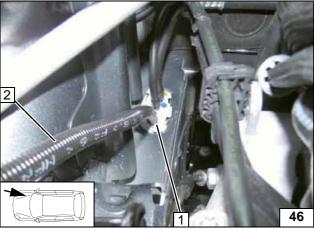




Route fuel line and wiring harness of metering pump into corrugated tube **1** along the A/C line to the firewall.



Routing lines

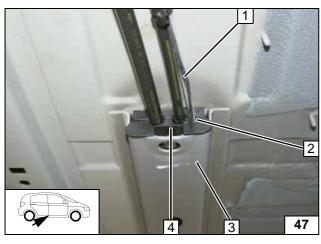


Route fuel line and wiring harness of metering pump in original vehicle line duct to the underbody.



- 1 Original vehicle pass through
- 2 Fuel line and wiring harness of metering pump in corrugated tube

Routing lines

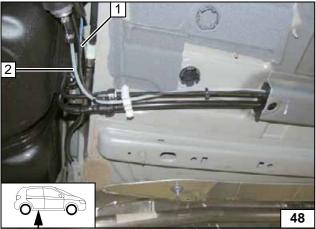


8mm dia. hole at position **2** in original vehicle sealing **4**!



- 1 Fuel line, wiring harness of metering pump
- 3 Original vehicle line duct

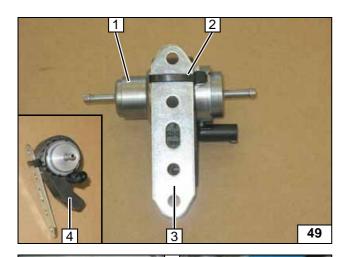
Routing lines



- 1 Wiring harness of metering pump
- 2 Fuel line

Routing lines





- 1 Metering pump2 Cable tie
- 3 Perforated bracket
- 4 Mounting of metering pump

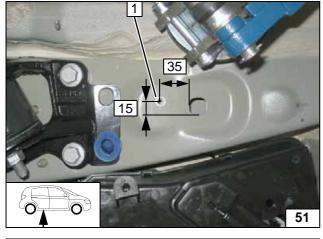
Premounting metering pump



Remove rubber plug at position 1.

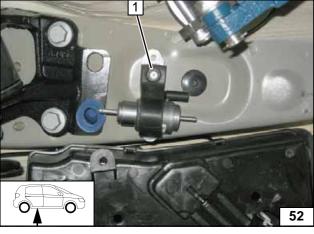


Mounting metering pump



1 9.1mm dia. hole; rivet nut

Mounting metering pump



Mount M6x25 bolt 1 together with metering pump mount, support angle bracket and perforated bracket on the rivet nut.



Mounting metering pump



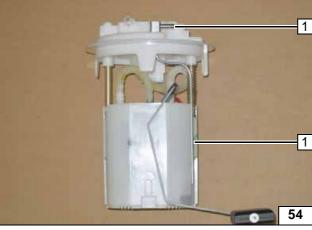


Remove fuel tank and fuel-tank sending unit 1 according to manufacturer's instructions.

- 2 Large diameter washer
- 3 Copy hole pattern, 6mm dia. hole



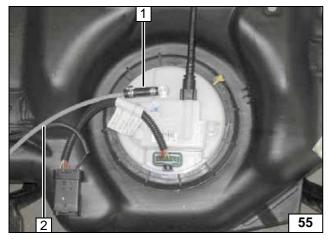
Fuel extraction



Shape fuel standpipe 1 as shown in the template and cut it to length.



Installing fuel standpipe



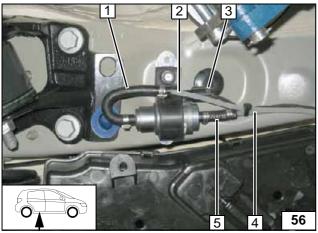
Install fuel-tank sending unit according to manufacturer's instructions.

Install fuel tank in accordance with manufacturer's instructions.



- 1 Hose section, 10mm dia.clamp [2x]
- 2 Fuel line

Connecting fuel line



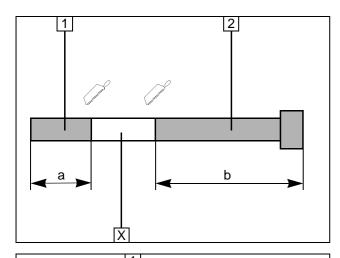
Check the position of the components; adjust if necessary. Check that they have freedom of movement.



- 1 180° moulded hose, 10mm dia. clamp [2x]
- 2 Fuel line of fuel standpipe
- 3 Wiring harness of metering pump, connector mounted
- 4 Fuel line of heater
- 5 Hose section, 10mm dia.clamp [2x]

Connecting metering pump



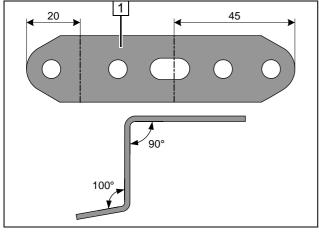


Exhaust Gas

Discard section X.

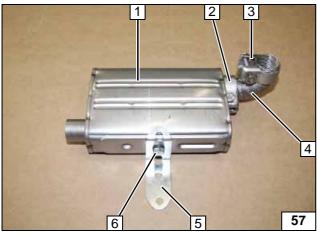
- 1 Exhaust pipe a = 70
- 2 Exhaust end section b = 220

Preparing exhaust pipe



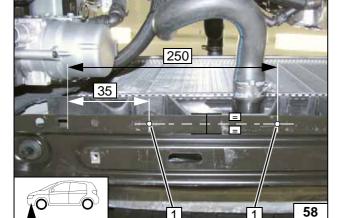
1 Perforated bracket

Angling down perforated bracket



- 1 Silencer
- 2 Hose clamp
- 3 Mount hose clamp4 Exhaust pipe
- 5 Perforated bracket
- 6 M6x16 bolt, spring lockwasher

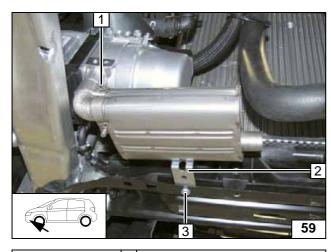
Mounting silencer



1 7mm dia. hole [2x]

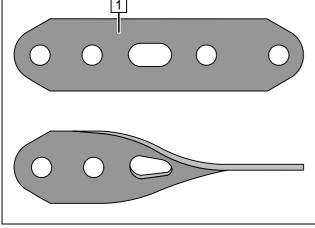
Holes in cross member





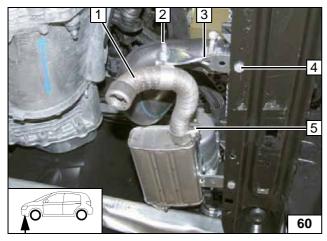
- 1 Tighten hose clamp2 Perforated bracket
- **3** M6x12 bolt, flanged nut

Mounting silencer



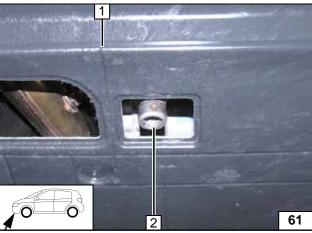
1 Twist 90° perforated bracket in longitudinal axis

> Preparing perforated bracket



- 1 Exhaust end section
- 2 M6x20 bolt, p-clamp, flanged nut
- 3 Perforated bracket
- 4 M6x12 bolt, flanged nut
- 5 Hose clamp

Installing exhaust end section



Align exhaust end section 2 centrally in the recess of the underride protection. Ensure sufficient distance to neighbouring components; correct if necessary.

1 Install underride protection

Aligning exhaust end section



Final Work

WARNING!

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

Only use manufacturer-approved coolant. Spray the heater 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.
- · Adjust digital timer, teach telestart transmitter.
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Place the "Switch off parking heater before refuelling" caution label in the area of the filler neck.
- For initial startup and function check, please see installation instructions.

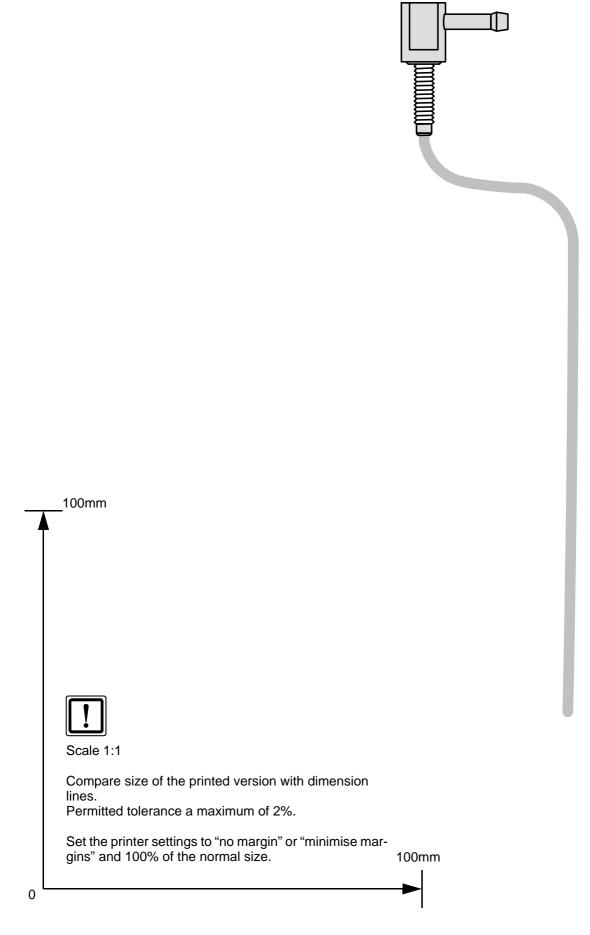




Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



Template for Fuel Standpipe



Status: 15.11.2013

Ident. No.: 1317488D_EN



Operating Instructions Automatic Air-Conditioning

Please remove page and add to the vehicle operating instructions.

Note

We recommend matching the heating time to the driving time.

Heating time = driving time

Example:

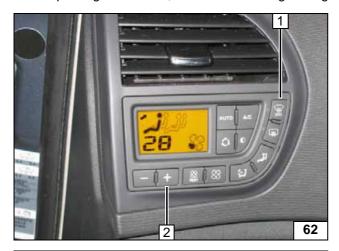
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.



Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

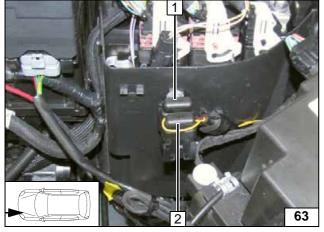
For instructions on deactivation, please refer to the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:



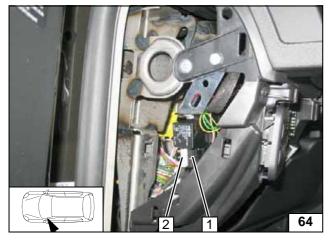
- 1 Air outlet onto windscreen
- 2 Set temperature to "max."

A/C control panel



- 1 30A passenger compartment main fuse F2
- 2 20A heater fuse F1

Fuses of engine compartment



- 1 1A fuse of heater control F3
- 2 25A fan fuse F4

Fuses of passenger compart-ment