

# Water Heater



**Thermo Top E Parking Heater**

  
00 0003

**Thermo Top C Parking Heater**

  
00 0002

**Thermo Top P Parking Heater**

  
00 0104

## Installation instructions

### Peugeot 206+

Petrol

from Model Year 2009

Left-hand drive vehicle

Without 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, 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.

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

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**Validity**

Manufacturer	Model	Type	EG-BE No./ABE
Peugeot	206+	3T	e2 * 2001 / 116 * 0374 * ...

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
HFX	Petrol	44	1124
KFW	Petrol	55	1360

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 the digital timer should be confirmed with the end customer before installation.

### Heater/Installation Kit

Quantity	Designation	Order No.:
1	Retail accessories <i>Thermo Top E / C / P</i>	See price list
1	Installation kit for Peugeot 206+ 2009 Petrol	1315401A
1	Heater control	See price list

### Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, station wagon	Thermo Top C
Full-size car, van, offroad	Thermo Top P

The selection of the heater is based on the passenger compartment size of the vehicle and the level of comfort required by the customer.



### Foreword

These installation instructions apply to the Peugeot 206+ Petrol vehicles - for validity, see page 2 - from model year 2009 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, the stipulations in these "installation instructions" and the "operating and maintenance instructions" for the *Thermo Top E / C / P* must always 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).

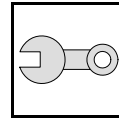
### Special Tools

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

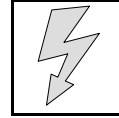
## Explanatory Notes on Document

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.

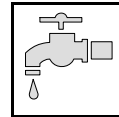
### Mechanical system



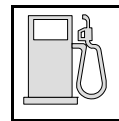
### Electrical system



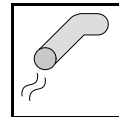
### Coolant circuit



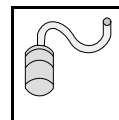
### Fuel



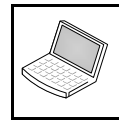
### Exhaust gas



### Combustion air



### Software



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.

**All dimensions are in mm!**

**Tightening torque of hose clamps = 2.0 + 0.5 Nm!**

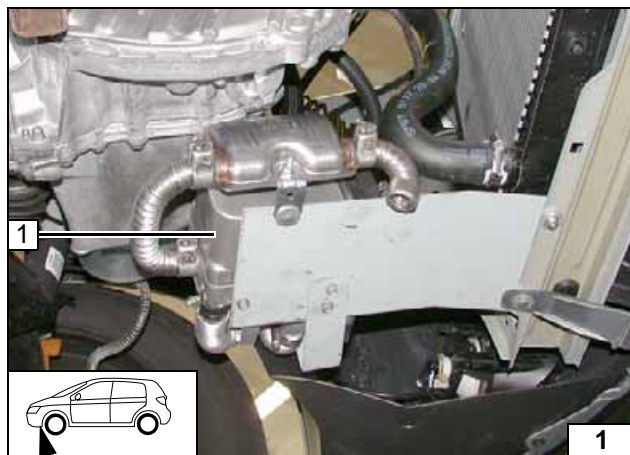
**Tightening torque of Ejet screws, Ejet studs = 10 Nm!**

**Preliminary Work**

**WARNING!**

- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- 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 battery
- Remove the air filter together with the intake hose.
- Open the tank-fitting service lid
- Remove the fuel-tank sending unit in accordance with manufacturer's instructions.
- Remove glove compartment
- Remove instrument panel trim on the driver's side
- Remove instrument panel trim at the left (only with HTM100)

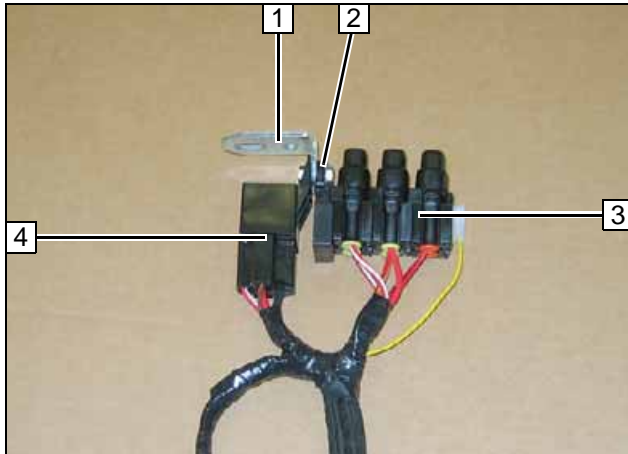
Remove page 24 "Operating Instructions for End Customer" and add to vehicle operating instructions.



**Heater installation location**

1 Heater

Installation location



### Preparing electrical system

- 1 Angle bracket
- 2 M5x16 bolt, retaining plate for fuse holder, washer, flanged nut
- 3 Fuses F1-3 mounted
- 4 K3 relay



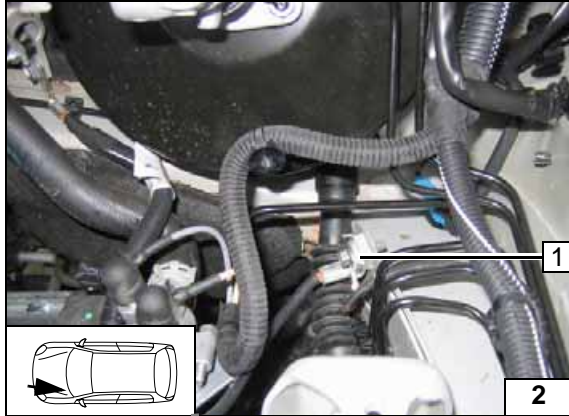
**Preparing fuse holder**



## Electrical system

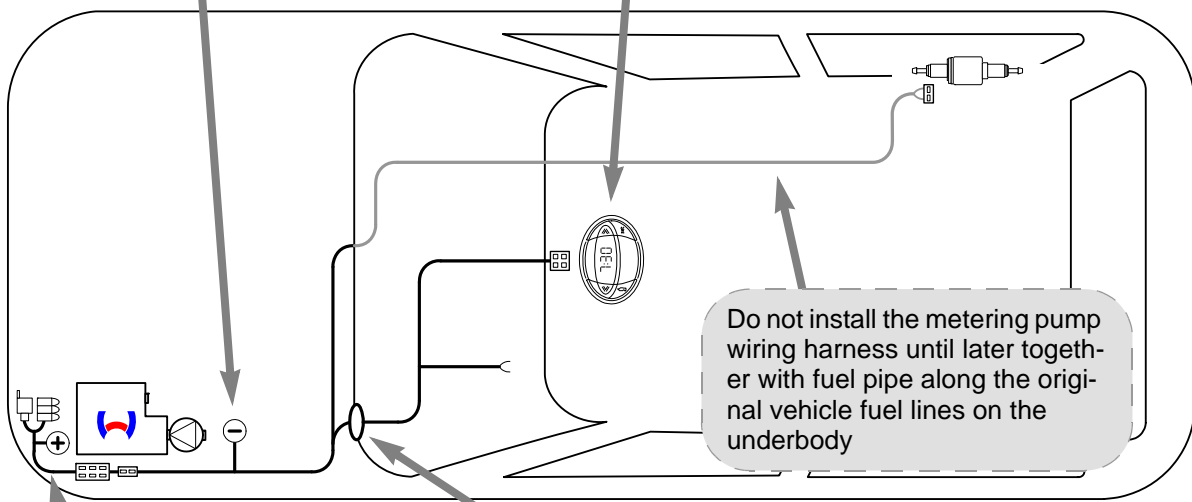
### Earth wire

- 1 Earth wire on original vehicle earth support point

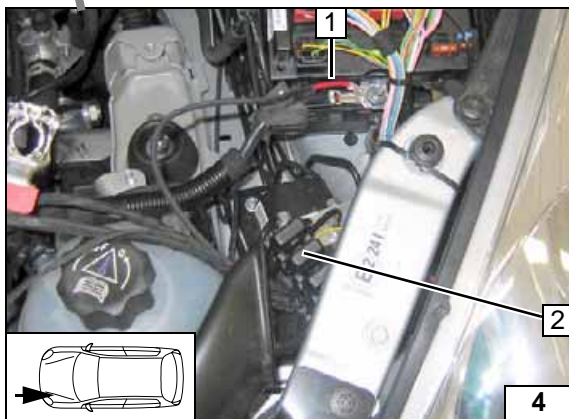


### Digital timer

- 1 Digital timer



Wiring harness routing diagram



### Fuse holder, K3 relay, positive wire

- 1 Positive wire on original vehicle positive support point
- 2 Fuse holder, M6x20 bolt, large diameter washer, flanged nut, existing hole

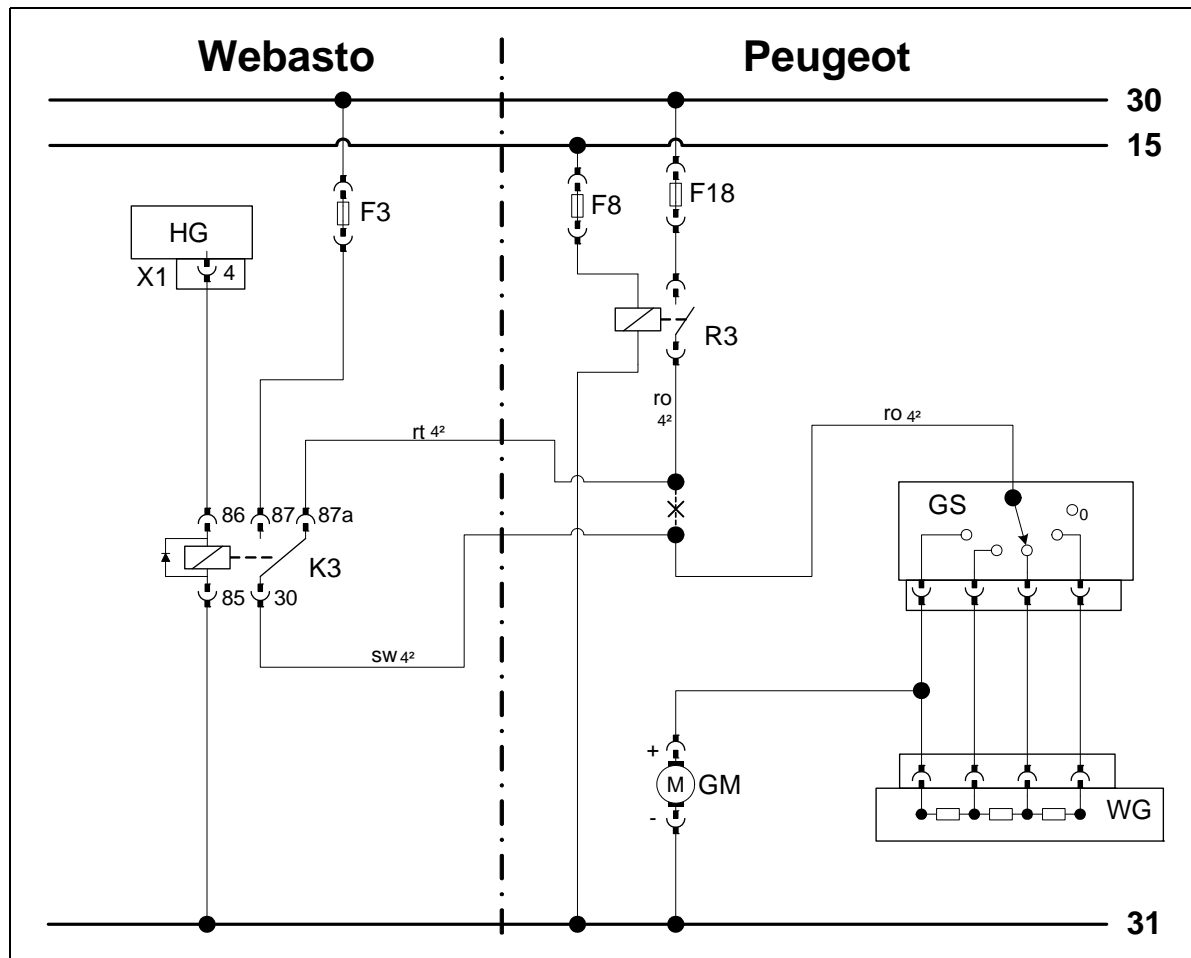


### Wiring harness pass through

- 1 Protective rubber plug



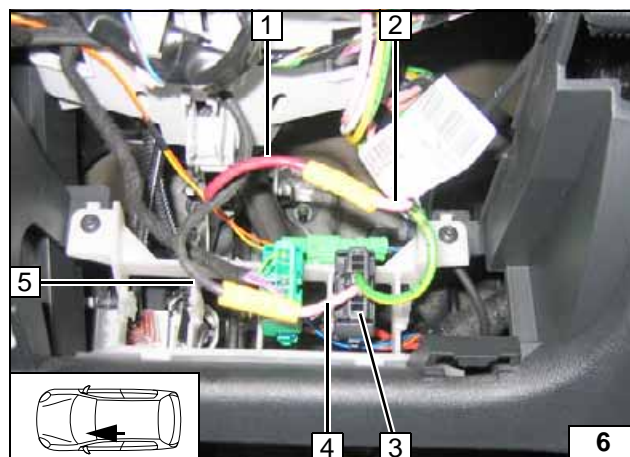
Fan control



Wiring diagram without air-conditioning

Webasto components		Vehicle components		Colours and symbols	
HG	TT-C/E Heater	GM	Fan motor	rt	red
X1	6-pin heater connector	R3	Fan relay	ro	pink
F3	25 A fuse	WG	Resistor group	sw	black
K3	Fan relay	GS	Fan switch		
		F8	Fuse		
		F18	Fuse		
				X	Cutting point
				Wiring colours may vary.	

Legend



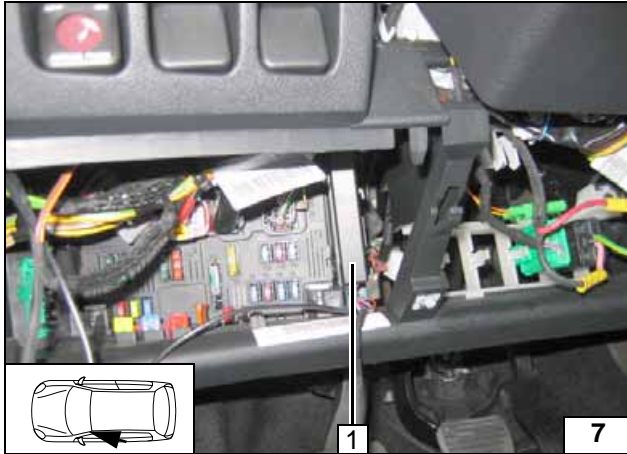
Connection to 6-pin connector 3. Produce connections as shown in wiring diagram.

- 1 Red (rt) wire from K3/87a
- 2 Pink (ro) wire of fan relay R3
- 4 Pink (ro) wire of fan switch
- 5 Black (sw) wire from K3/30



Connecting fan motor



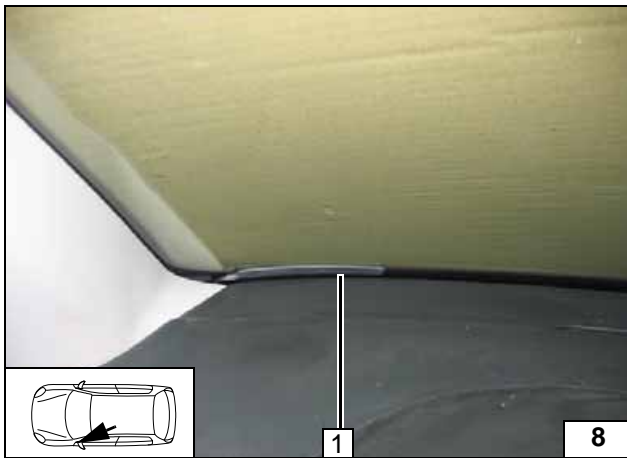


**Remote option (Telestart)**

Mount receiver 1 laterally on fuse and relay box with adhesive tape.

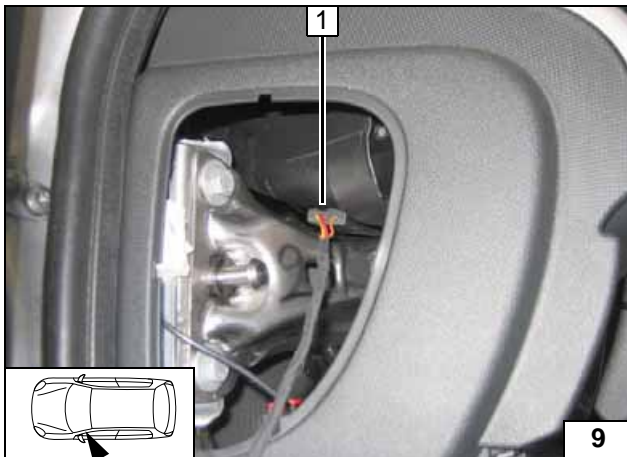


**Installing receiver**



1 Antenna

**Installing antenna**

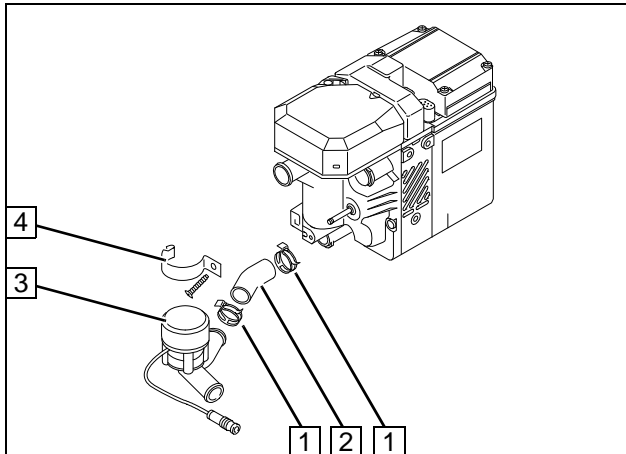
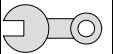


**Temperature sensor HTM100**

Fasten temperature sensor 1 with adhesive tape.



**Mounting temperature sensor**



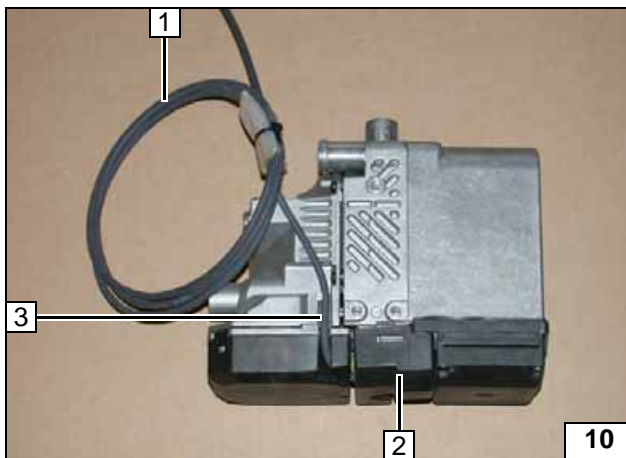
### Preparing heater

Open central lid, pull out wiring harness of circulating pump and insert adapter wiring harness. Spring clips 1 [2x], clamps with bolt 4 and hose section 2 will not be reused.

3 Circulating pump



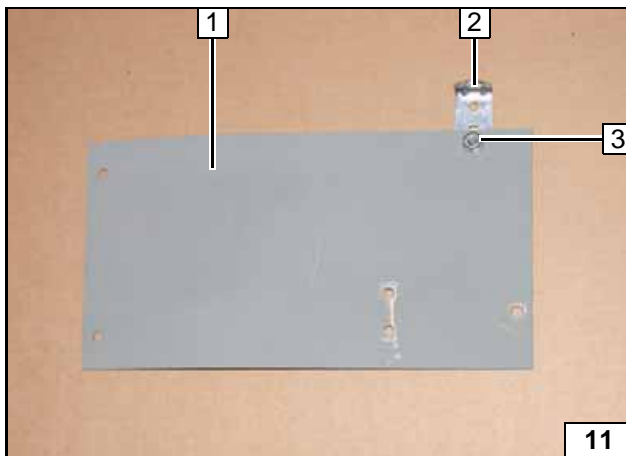
Removing circulating pump



Close central cover 2. Insert adapter wiring harness 1 in guide 3.

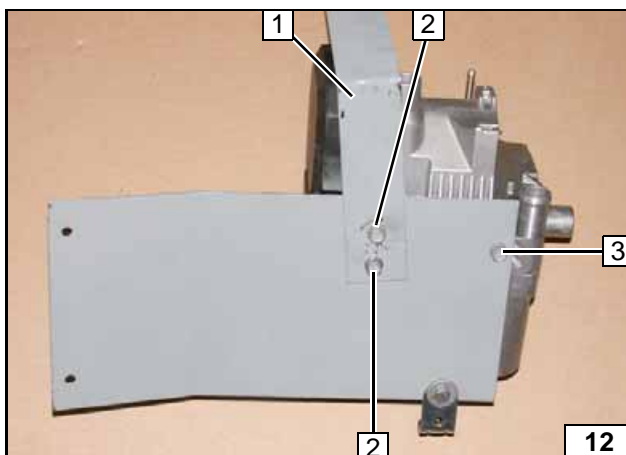


Preparing heater



- 1 Bracket
- 2 Angle bracket
- 3 M6x20 bolt, large diameter washer, flanged nut

Preparing bracket

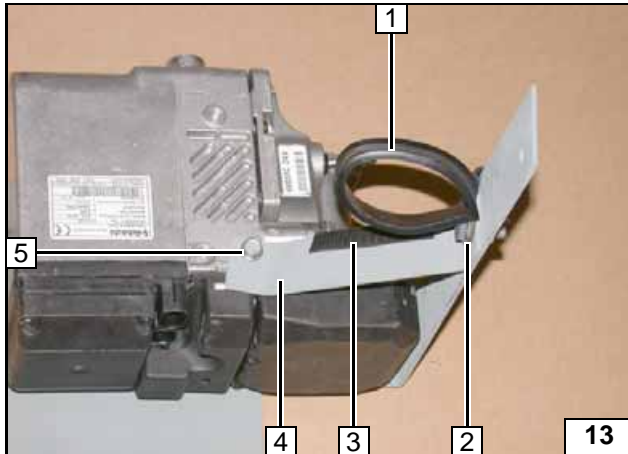
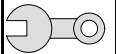


Insert two washers between heater and bracket at position 3.

- 1 Strut 1
- 2 E-jot screw [2x]
- 3 E-jot screw, washer [2x]

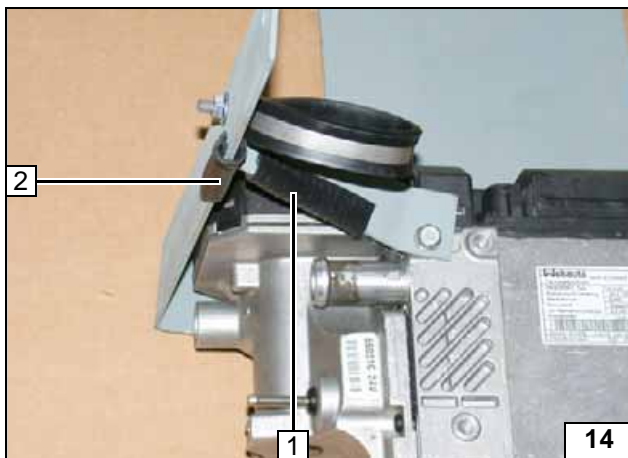


Premounting heater



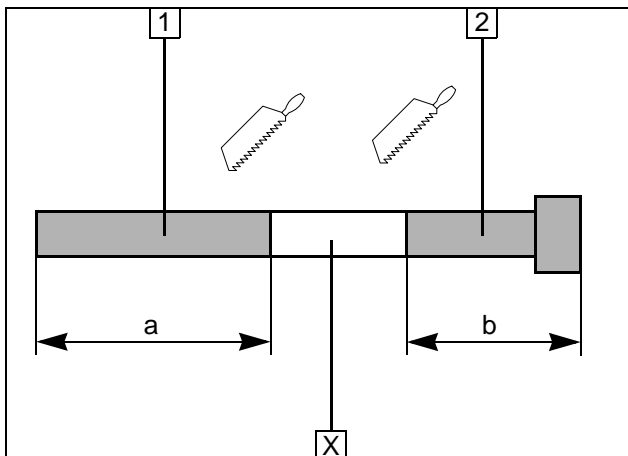
- 1 48 mm dia. rubber-coated p-clamp
- 2 M6x20 bolt, flanged nut
- 4 Strut 2
- 5 E-jot screw

Premounting heater



- 1 Edge protection 50
- 2 Edge protection 50

Installing edge protection

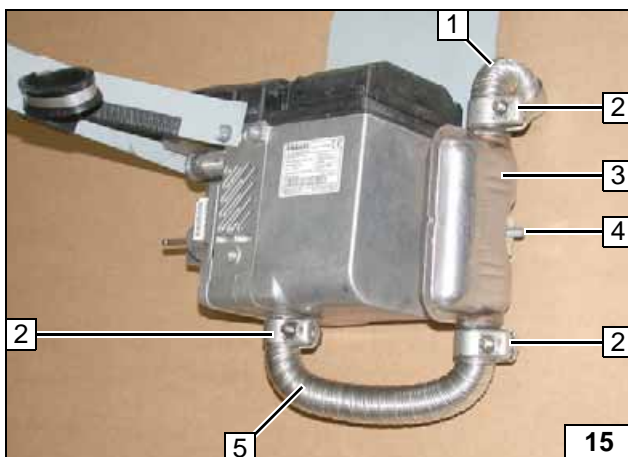


Discard section X.

- 1 Exhaust pipe  
a = 210
- 2 Exhaust end section  
b = 90

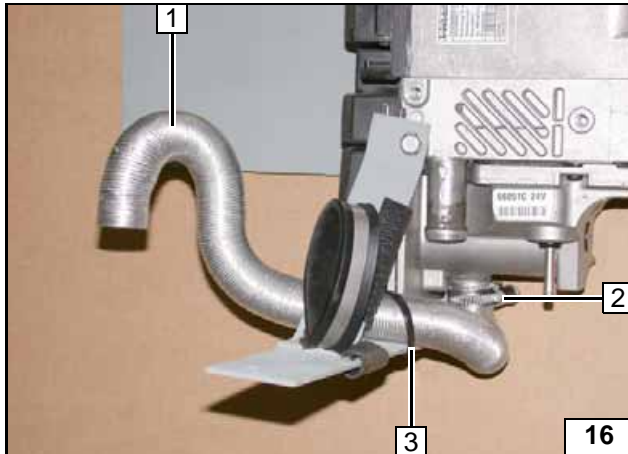
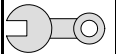


Preparing exhaust pipe



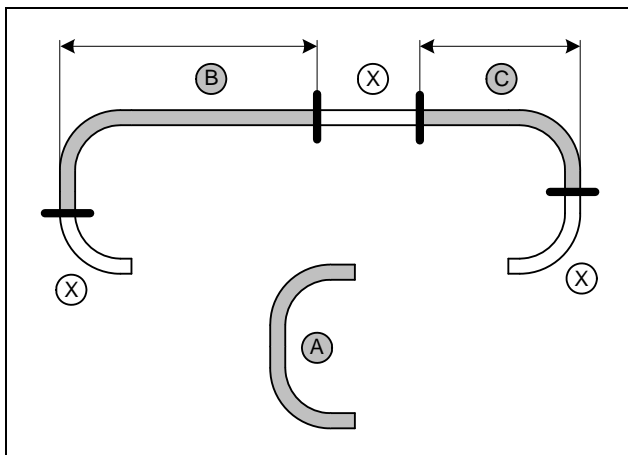
- 1 Exhaust end section
- 2 Hose clamp [3x]
- 3 Exhaust silencer
- 4 M6x20 bolt, spring lockwasher, flanged nut
- 5 Exhaust pipe

Premounting exhaust system



- 1 Combustion air pipe
- 2 27 mm dia. clamp
- 3 Cable tie

Premounting combustion air pipe

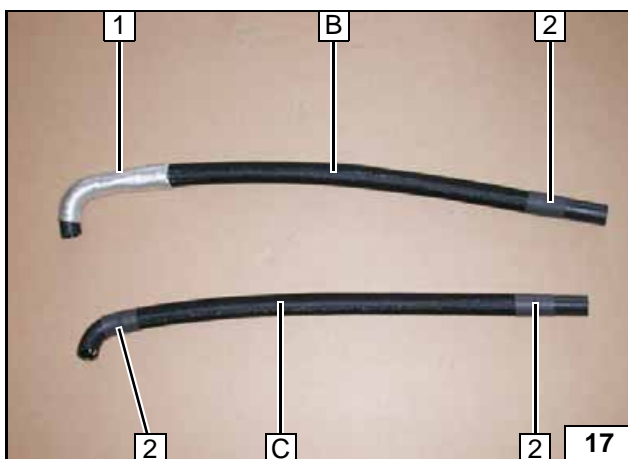


Discard section X.  
Hose A = 180°, 20x20 moulded hose  
Hose B with long 90° elbow.

- B = 710
- C = 640



Cutting coolant hoses to length

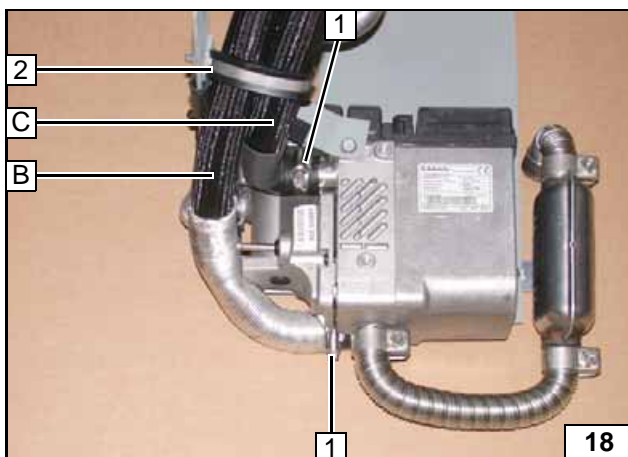


Push braided protection hoses onto hose B and C and cut to length.  
Cut heat shrink plastic tubing to length. Slide heat protection hose 1 onto hose B.

- 2 50mm long heat shrink plastic tubing [3x]



Preparing coolant hoses

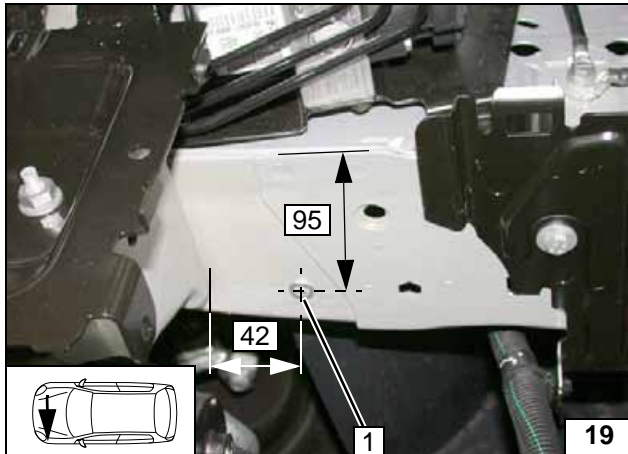
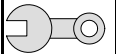


Route hose B and C through rubber-coated pipe clamp 2.

- 1 27mm dia. clamp [2x]



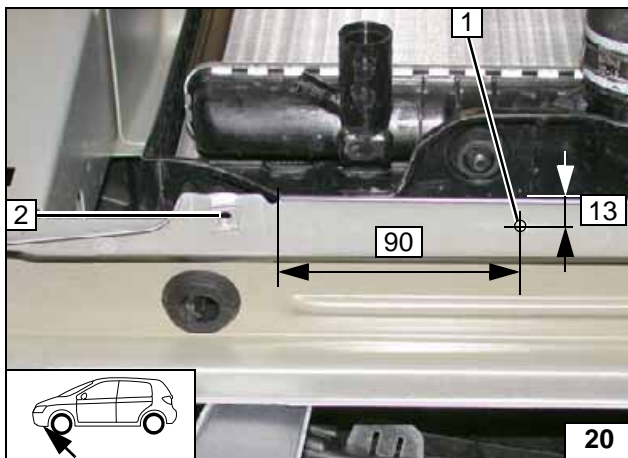
Premounting coolant hoses



### Preparing installation location

- 1 Drill 9.1 mm dia. hole; rivet nut

Installing rivet nut

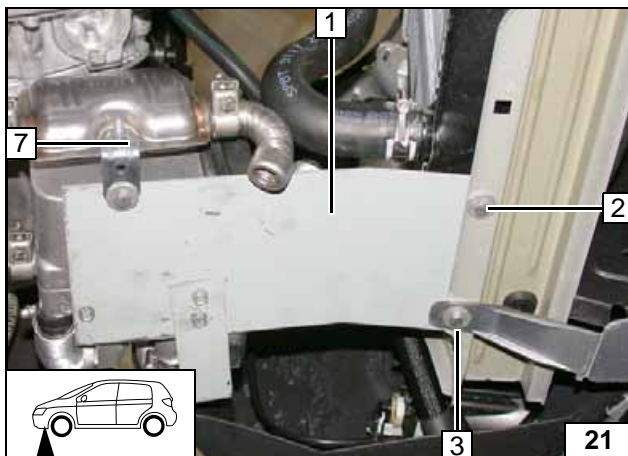


Remove original vehicle bolt at position 2. Beat back bracket from bumper.



- 1 Bracket
- 2 7 mm dia. hole
- 3 M6x20 bolt, spring lockwasher, flanged nut
- 4 M6x20 bolt, large diameter washer

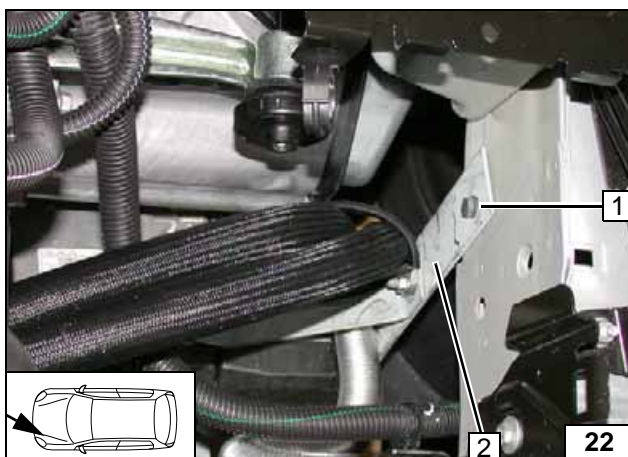
Hole in cross member



### Installing heater

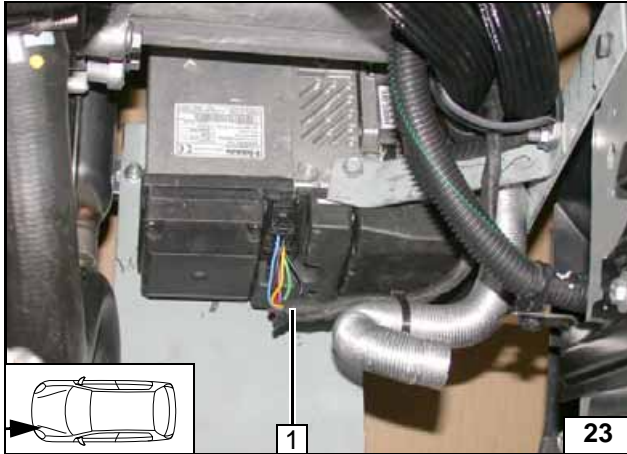
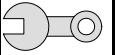
- 1 Bracket
- 2 M6x20 bolt, large diameter washer, flanged nut
- 3 M6x20 bolt, large diameter washer, bracket of bumper, existing threaded hole

Installing heater



- 1 M6x20 bolt, spring lockwasher
- 2 Strut

Installing heater



1 Wiring harness of heater

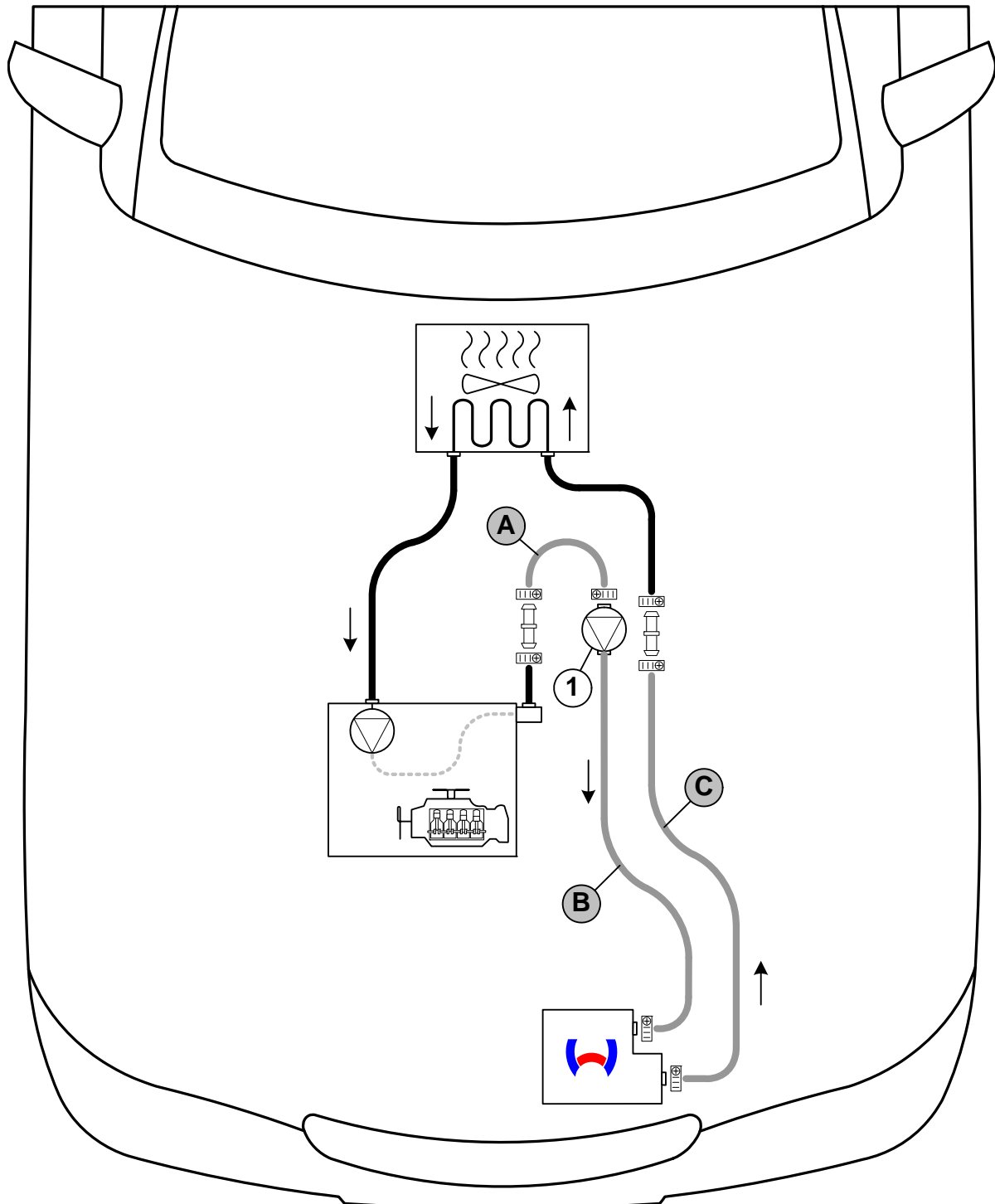
Mounting  
wiring har-  
ness





**Coolant circuit**

**WARNING!**

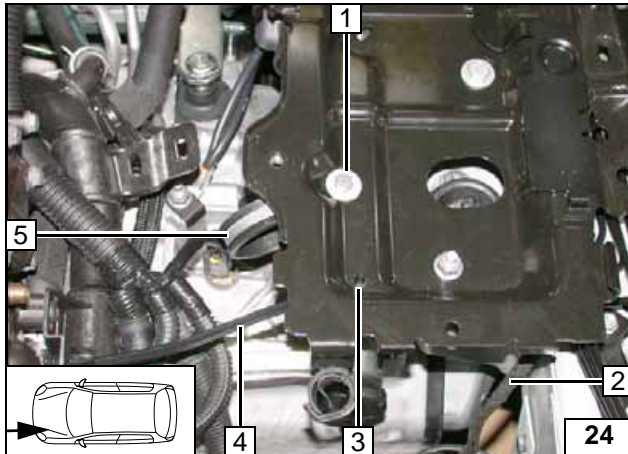
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection should be "inline" based on the following diagram:



Hose routing diagram

1 = Circulating pump All hose clamps  = 20-27 mm dia.  
All connecting pipes  = 15x20 dia.



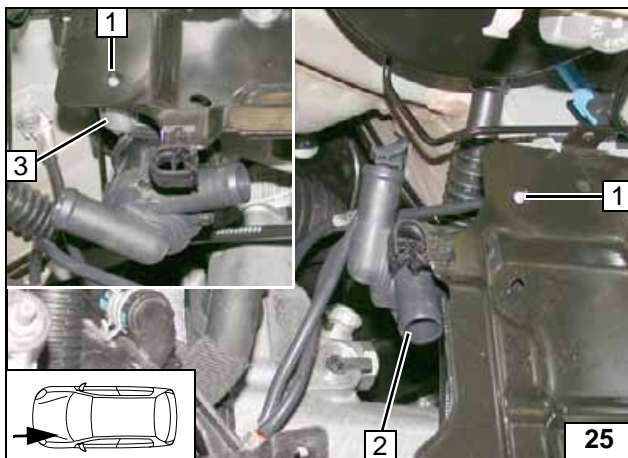


Insert 6mm dia. hole at position **3** in the battery carrier and clip-type cable tie **4** from below. When drilling, watch components located behind. Connect wiring harness of circulating pump with adapter wiring harness such that wires of the same colour are connected.

- 1** M6x20 bolt, large diameter washer, existing hole for battery carrier.
- 5** 48 mm dia. rubber-coated p-clamp

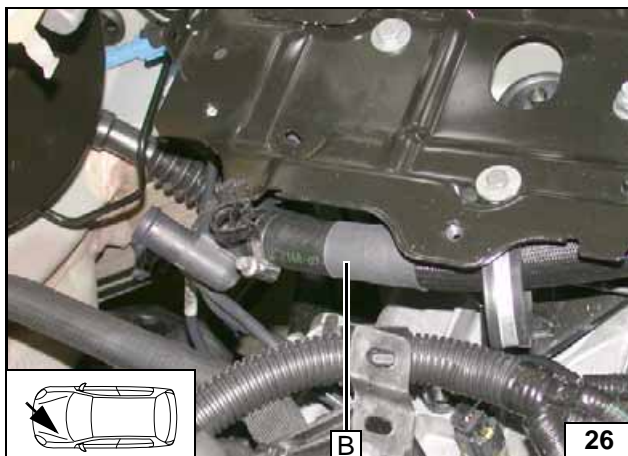


**Preparing installation**



- 1** M6x35 bolt in existing threaded hole for battery carrier.
- 2** Circulating pump
- 3** 48mm dia. rubber-coated p-clamp, 20mm shim

**Installing circulating pump**

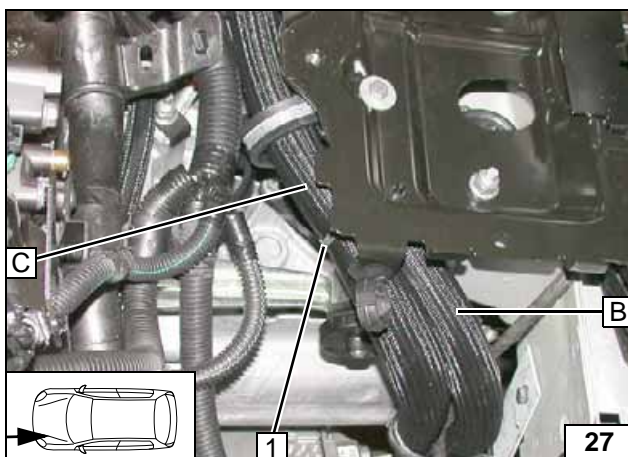


Route hose **B** through rubber-coated p-clamp to circulating pump.

- 1** Circulating pump



**Connecting circulating pump**

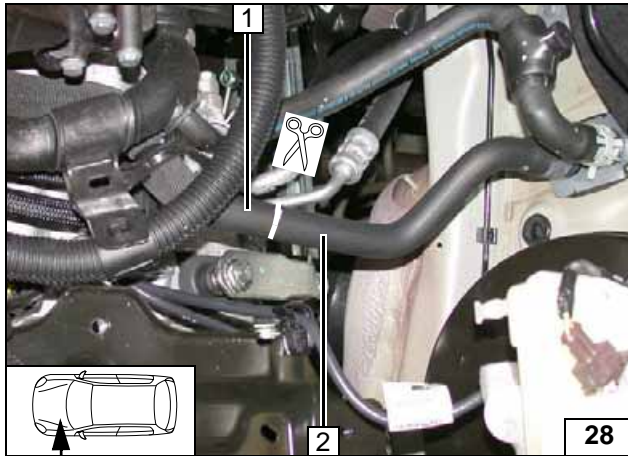
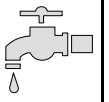


Route hose **C** through rubber-coated p-clamp. Close clip-type cable tie **1**.



**Routing in engine compartment**



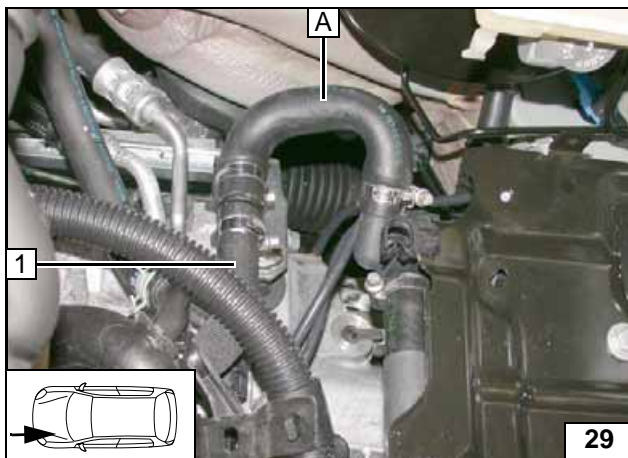


Remove protective hose on hose of engine outlet / heat exchanger inlet.

- 1 Engine outlet hose section
- 2 Hose section of heat exchanger inlet

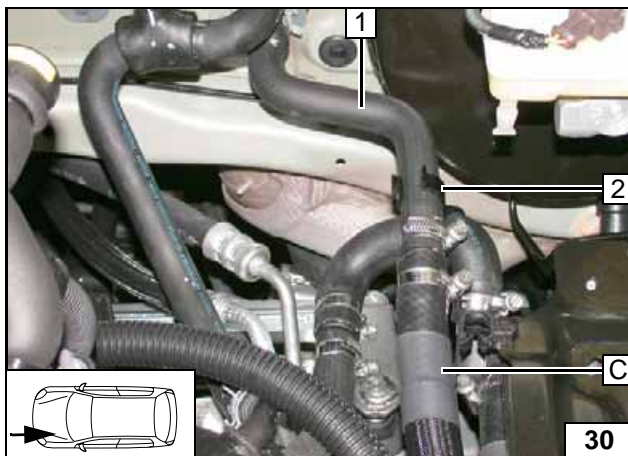


**Cutting point**



- 1 Hose on engine outlet

**Connecting engine outlet**



Ensure sufficient distance from neighbouring components.

- 1 Hose on heat exchanger inlet
- 2 Spacer bracket



**Connecting heat exchanger inlet**



**Fuel**

**CAUTION!**

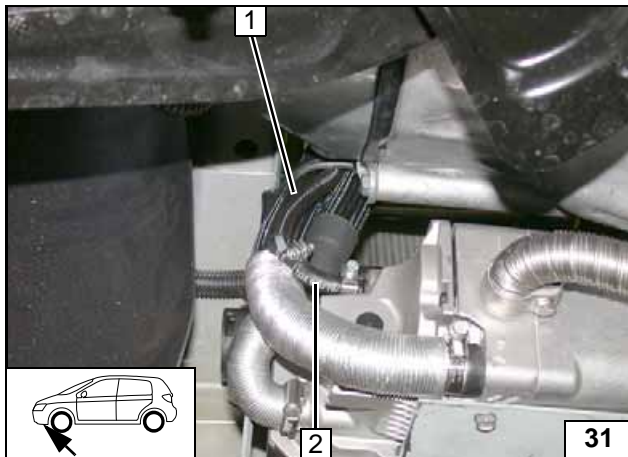
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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 as shown in the wiring harness routing diagram.

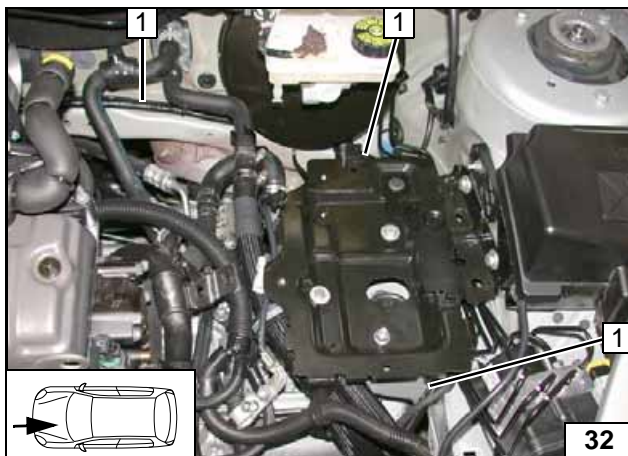


Route fuel line in corrugated tube 1 to firewall.

2 Hose section, 10 mm dia. clamp [2x]



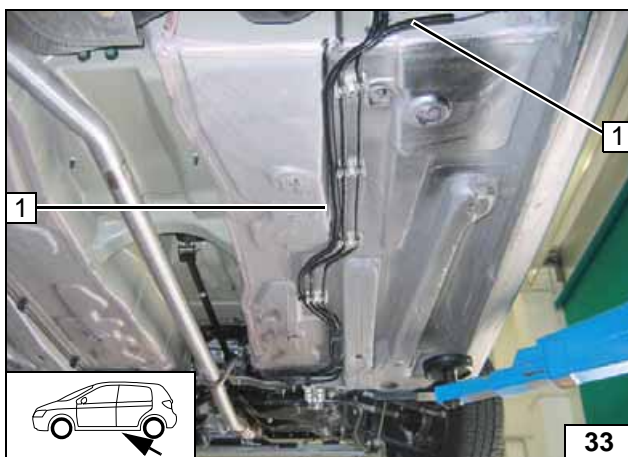
**Connect-  
ing heater**



Route fuel line and wiring harness of metering pump in corrugated tube 1 to the firewall on the right vehicle side.



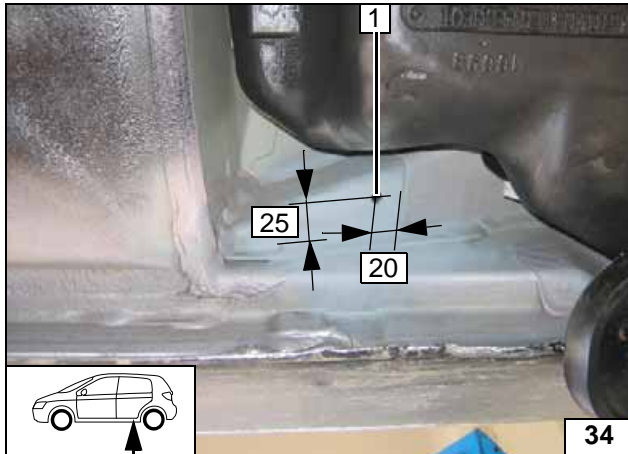
**Installing  
lines**



Route fuel line and wiring harness of metering pump in corrugated tube 1 at the original vehicle lines to the installation location of the metering pump.

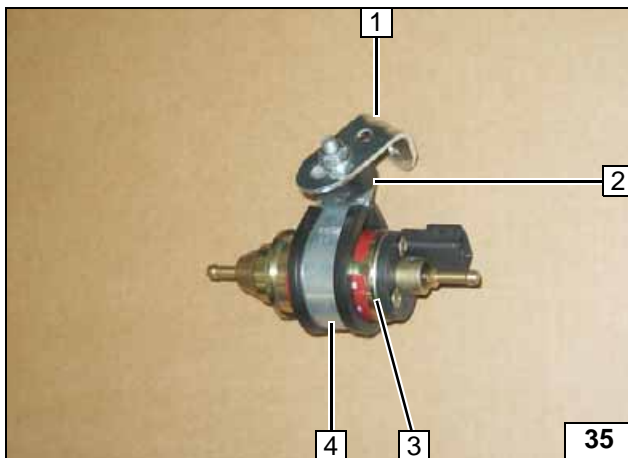


**Installing  
lines**



1 Drill 9.1 mm dia. hole; rivet nut

Installing rivet nut



1 Angle bracket  
2 Silent block, flanged nut [2x]  
3 Metering pump  
4 Rubber-coated pipe clamp

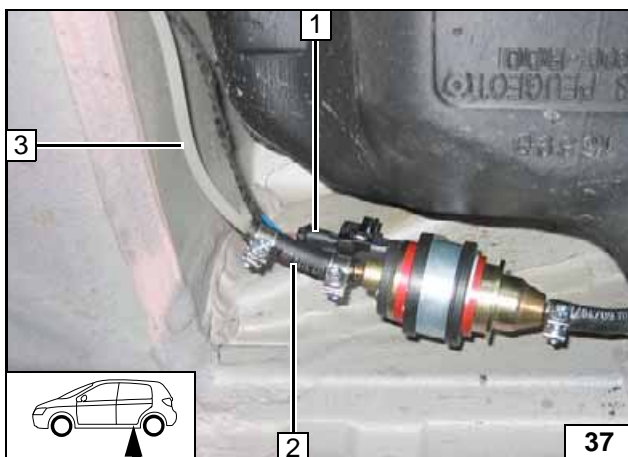
Premounting metering pump



1 M6x20 bolt, spring lockwasher



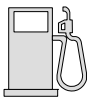
Mounting metering pump



1 Wiring harness of metering pump, connector mounted  
2 Hose section, 10 mm dia. clamp [2x]  
3 Fuel line



Connecting metering pump

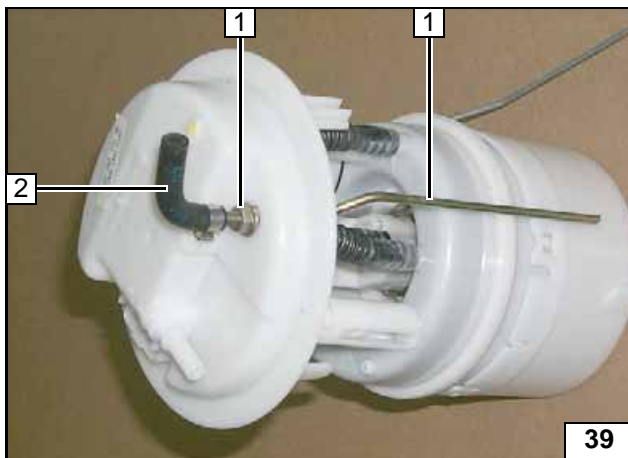


Remove fuel-tank sending unit 1 in accordance with manufacturer's instructions. Cut out template of fuel standpipe 2 and install.

3 Copy hole pattern, 6 mm dia. hole



Removing fuel

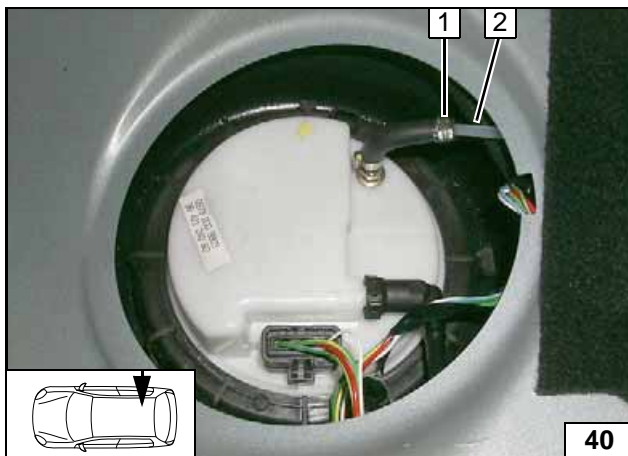


Mould fuel standpipe 1 according to template, cut to length and install Shorten 90°- moulded hose 2 at 3.5mm dia. by 10mm.

2 90°-moulded hose, 10mm dia. clamp



Installing fuel standpipe



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

1 10mm dia. clamp  
2 Fuel line



Connecting fuel line

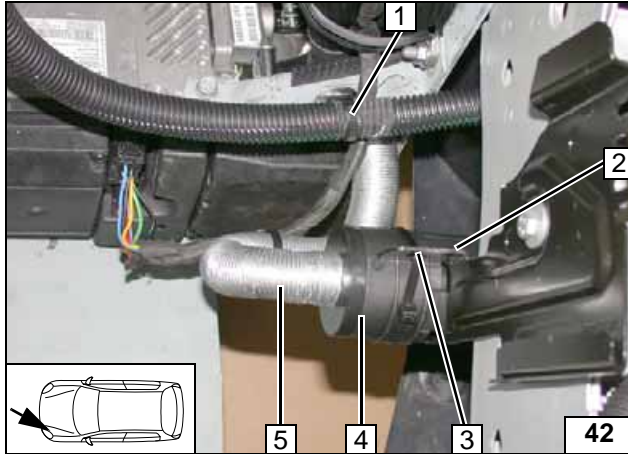
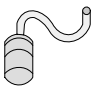


Check the position of the components; adjust if necessary. Check that they have freedom of movement.

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



Connecting metering pump



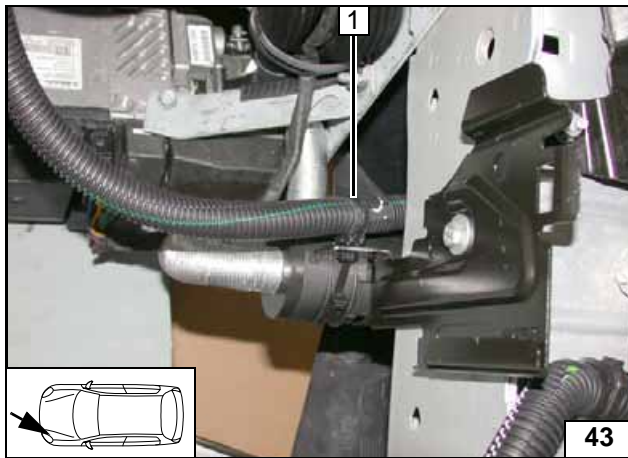
### Combustion air

Clip-type cable tie **1** of original vehicle wiring harness detached from bracket **2**.

- 3** Cable tie, existing hole
- 4** Silencer
- 5** Combustion air pipe



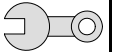
### Mounting silencer



Install clip-type cable tie **1** from original vehicle wiring harness in the bracket.



### Installing wiring harness



## 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.

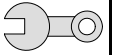
Only use manufacturer-approved coolant.

Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

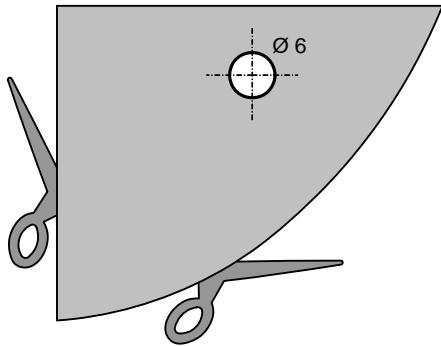
- Connect the battery
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the digital timer.
- Make control settings according to the "Operating Instructions for End Customer"
- Check the proper operation of the parking heater, see the operating instructions/installation instructions.
- Place the "Switch off parking heater before refuelling" signboard near the filler neck.



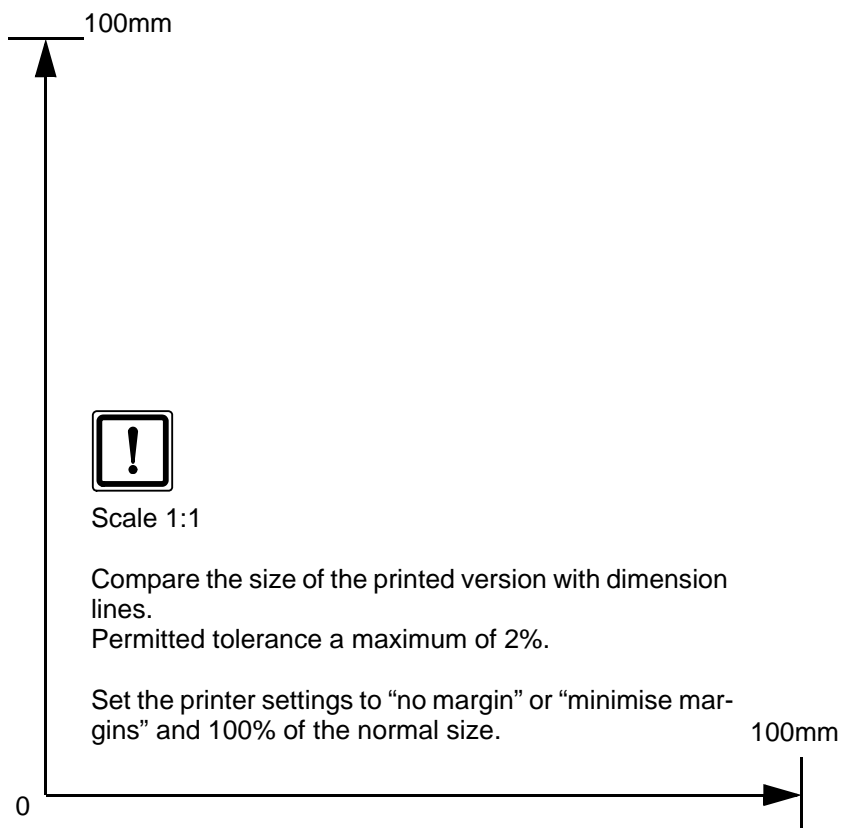
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Template for fuel-tank sending unit



Template for fuel standpipe



## Operating Instructions for End Customer



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

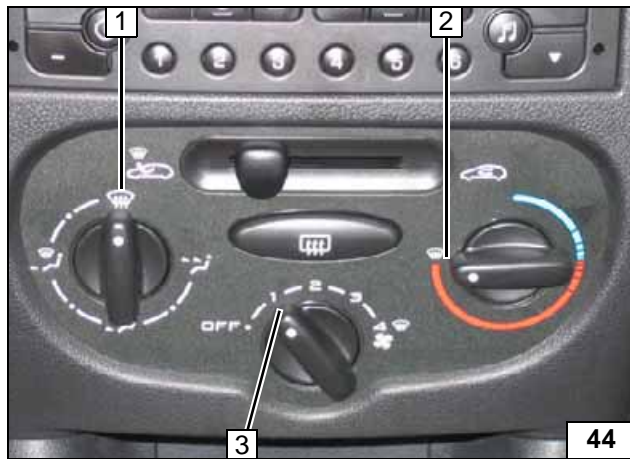
**Example:**

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

On vehicles with anti-theft alarm, the passenger compartment monitoring system must be deactivated. For information on deactivation, please see the vehicle owner's manual.



Before parking the vehicle, make the following settings:



- 1 Air outlet to windscreen
- 2 Set temperature to "max."
- 3 Fan on Phase "1" max. "2" level.

Without air conditioning