

Water Heater



Thermo Top E Parking Heater


00 0003

Thermo Top C Parking Heater


00 0002

Installation documentation

Dacia Logan / Sandero / Duster

Special

Petrol

from model year 2006

Left-hand drive vehicle

Dacia Duster 4WD has not been tested.

Not for vehicles with electro-hydraulic power steering.



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	2	Preparing heater	9
Heater / Installation Kit	3	Preparing installation location	9
Foreword	3	Installing heater	11
General Instructions	3	Coolant circuit 1.4l and 1.6l 64kW	12
Special Tools	3	Coolant circuit 1.6l 77kW	16
Explanatory Notes on Document	4	Combustion air	20
Preliminary Work	5	Fuel	21
Heater installation location	5	Exhaust gas	24
Electrical system	6	Final Work	27
Fan control	7	Template for fuel standpipe	28
Remote option (Telestart)	8	Operating Instructions for End Customer	29

Validity

Manufacturer	Model	Type	EG-BE No./ABE
Dacia	Logan	SD	e2 * 2001 / 116 * 0314 * ...
Dacia	Sandero	SD	e2 * 2001 / 116 * 0314 * ...
Dacia	Duster	SD	e2 * 2001 / 116 * 0314 * ...

Engine type	Engine model	Output in kW	Displacement in cm ³
K7J	Petrol	55	1390
K7M	Petrol	64	1598
K4M	Petrol	77	1598

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

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

Heater / Installation Kit

Quantity	Designation	Order No.:
1	Renault-specific heater delivery scope	See Renault price list
1	Special installation kit for Dacia Logan / Sandero / Duster Petrol	1312497C
1	Heater control	See Renault price list

Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, estate car	Thermo Top C

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

This installation documentation applies to Dacia Logan / Sandero / Duster Petrol vehicles - for validity, see page 2 - from model year 2006 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

The specification of this "installation documentation"; the "operating instructions" and the "installation instructions" of the *Thermo Top C/E* are to be observed under all circumstances.

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 should be fitted with rub protection (split-open fuel hose).

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

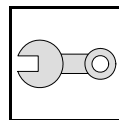
Special Tools

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

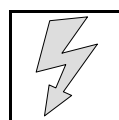
Explanatory Notes on Document

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.

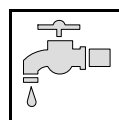
Mechanical system



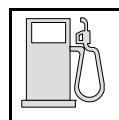
Electrical system



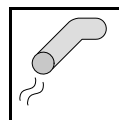
Coolant circuit



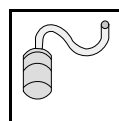
Fuel



Exhaust gas



Combustion air



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



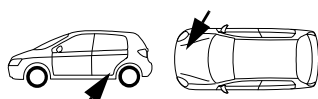
Specific risk of fire or explosion.



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!

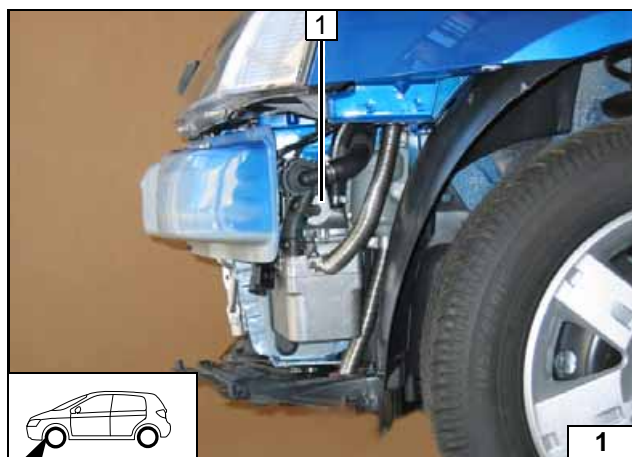
Tightening torque of Ejet screws, Ejet studs = 10 Nm!

Preliminary Work

WARNING!

- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Disconnect the battery "earth" or "ground" connection.
- 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 the air filter complete with the intake hose (only on 1.6l 77kW)
- Remove the left-hand wheel well trim.
- Remove the bumper.
- Remove the underride protection on the left.
- Open the right-hand tank-fitting service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturer's instructions.
- Remove the fan controls

Remove page 29 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater installation location

1 Heater

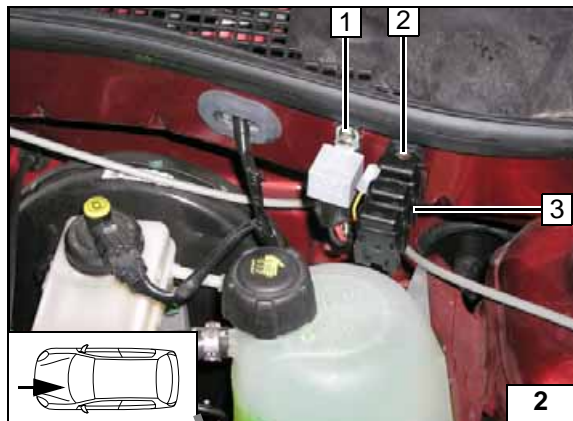
Installation location



Electrical system

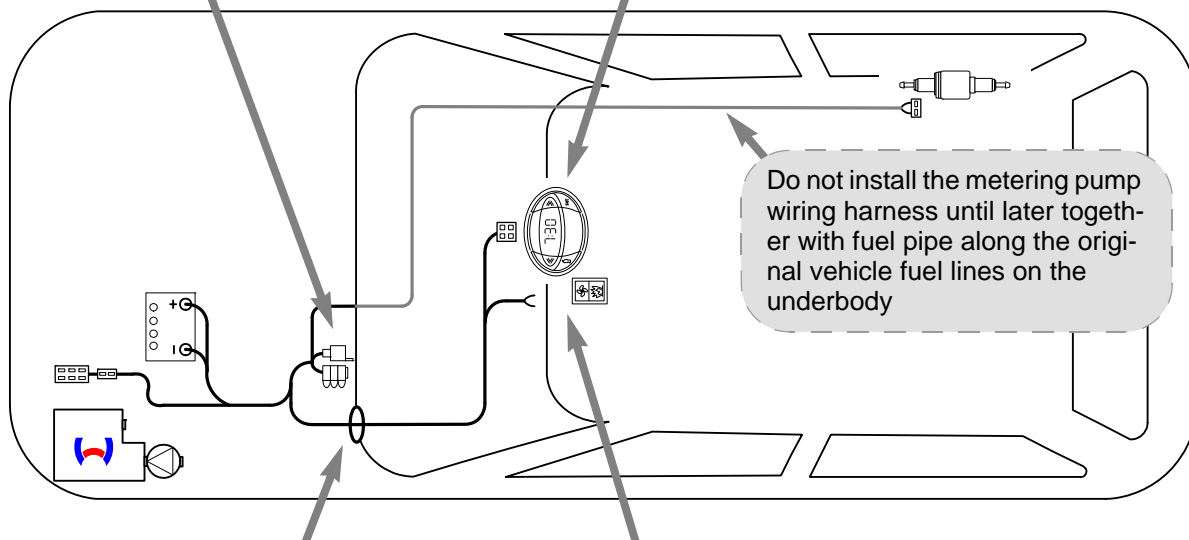
Fuse holder, K3 relay

- 1 K3 relay, 5.5x9.5 self-tapping screw
- 2 Retaining plate of fuse holder, 5.5x9.5 self-tapping screw
- 3 Fuse holder

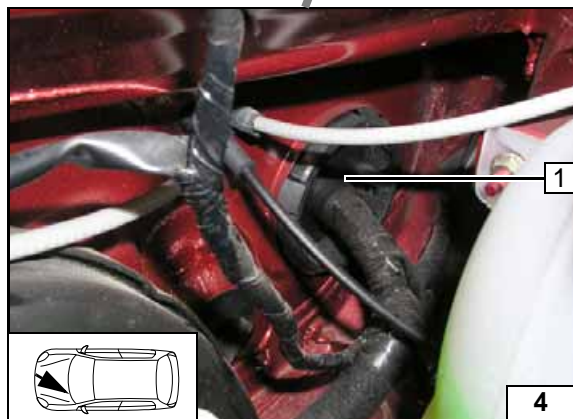


Digital timer, summer/winter switch option, Dacia Logan

- 1 Digital timer
- 2 12mm dia. hole, summer/winter switch

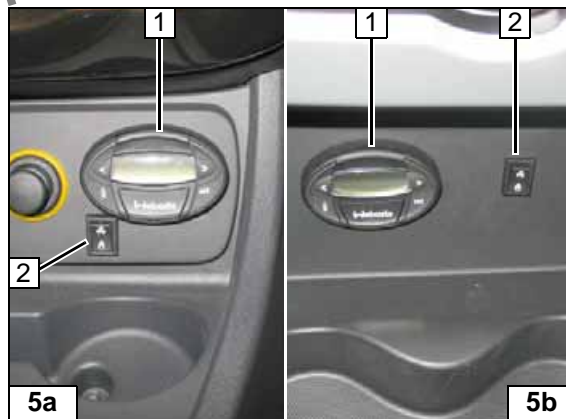


Wiring harness routing diagram



Wiring harness pass through

- 1 Protective rubber plug



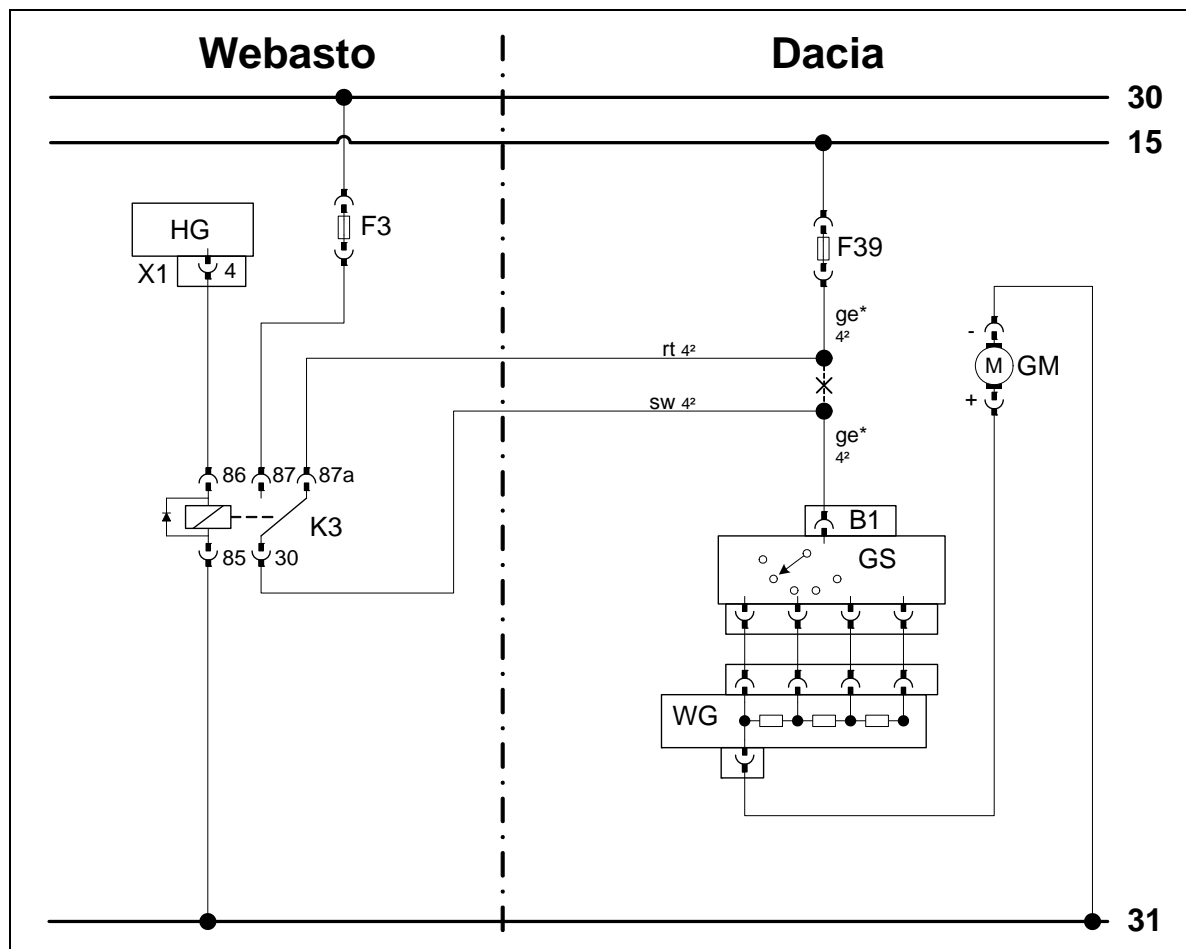
Digital timer, summer/winter switch option

Figure 5a = Dacia Duster
Figure 5b = Dacia Sandero

- 1 Digital timer
- 2 12mm dia. hole, summer/winter switch



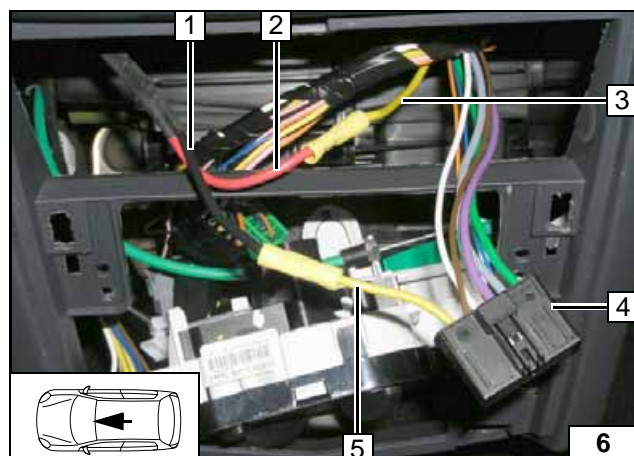
Fan control



Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater connector	GS	Fan switch	ge	yellow
F3	Fuse 25A	WG	Resistor group	sw	black
K3	Fan relay	B1	Connector B Pin 1		
		F39	Fuse 30A	X	Cutting point
				*Wiring colours may vary.	

Legend



Connection to 6-pin connector B 4 from fan switch.
Produce connections as shown in wiring diagram.

- 1 Black (sw) wire from K3/30
- 2 Red (rt) wire from K3/87a
- 3 Yellow (ge) wire from fuse 39
- 5 Yellow (ge) wire from connector B1

Connecting fan motor

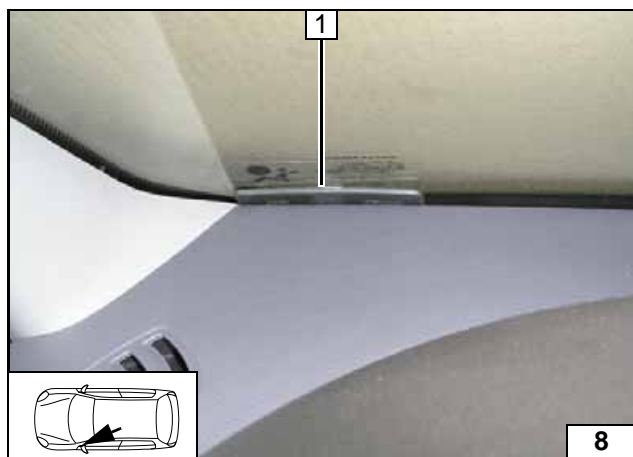


Remote option (Telestart)

- 1 Telestart bracket
- 2 Telestart
- 3 Original vehicle bolt

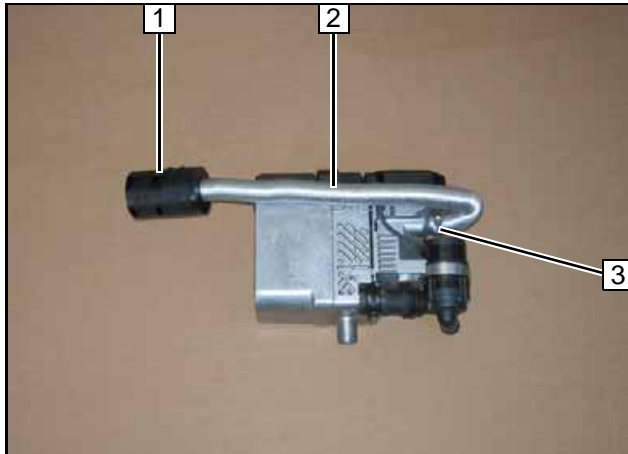
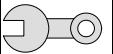


Mounting receiver



- 1 Antenna

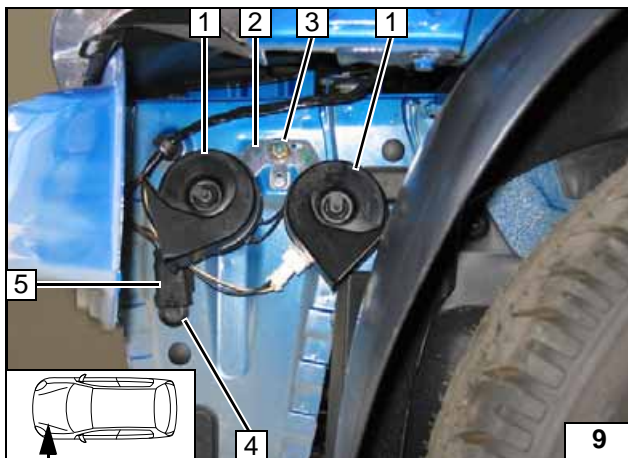
Mounting antenna



Preparing heater

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

Premounting combustion air pipe



Preparing installation location

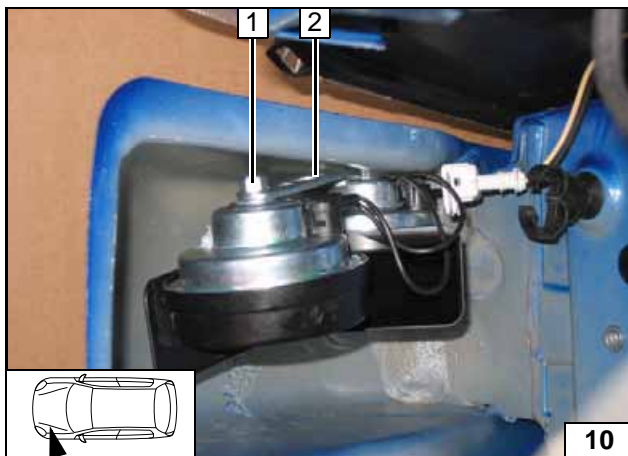
Dacia Logan

Remove horns 1 [2x]; M6 flanged nut will be reused.
Discard horn bracket 2 and original vehicle nut 3.

- 4 Discard plug
- 5 Unclip connector

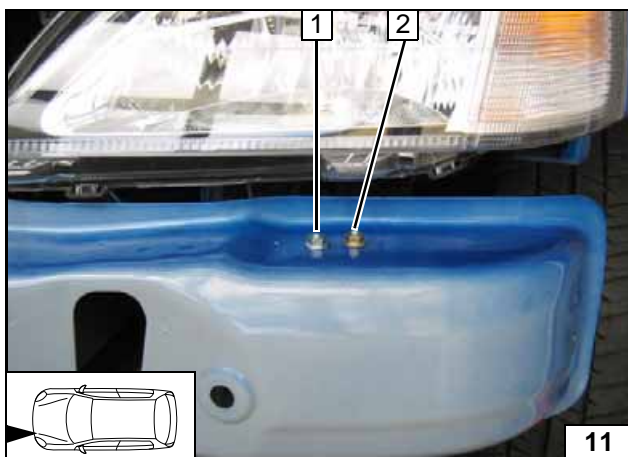


Removing horns



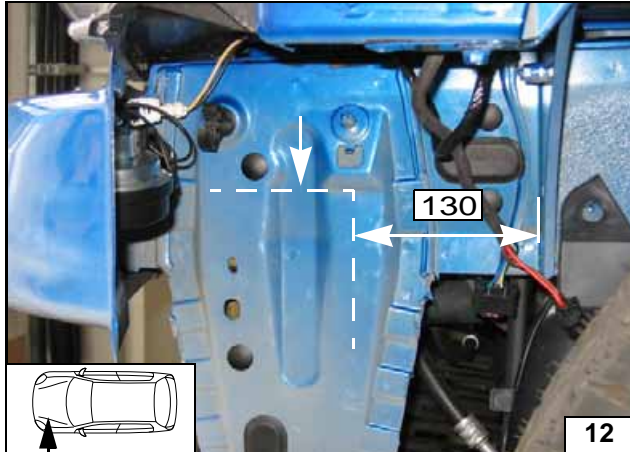
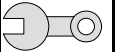
- 1 Original vehicle M6 flanged nut
- 2 Perforated bracket

Mounting horns



- 1 Horn, original vehicle hole, original vehicle flanged nut M6
- 2 M6x12 bolt, perforated bracket, original vehicle hole, flanged nut

Mounting horns

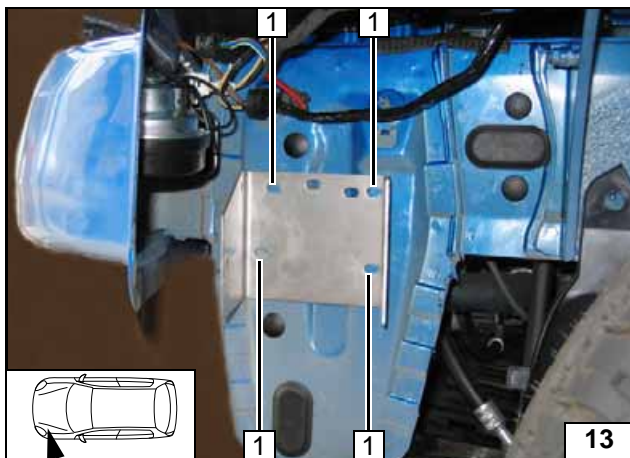


All vehicles

Lay on bracket at lower edge of bead (see marking).



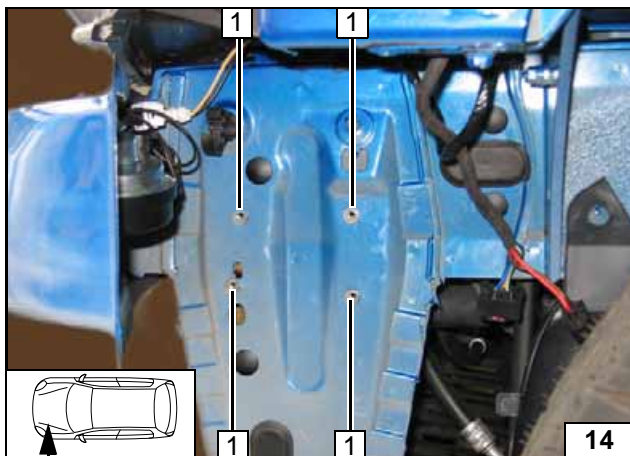
Setting up bracket



Copy hole pattern 1 [4x].



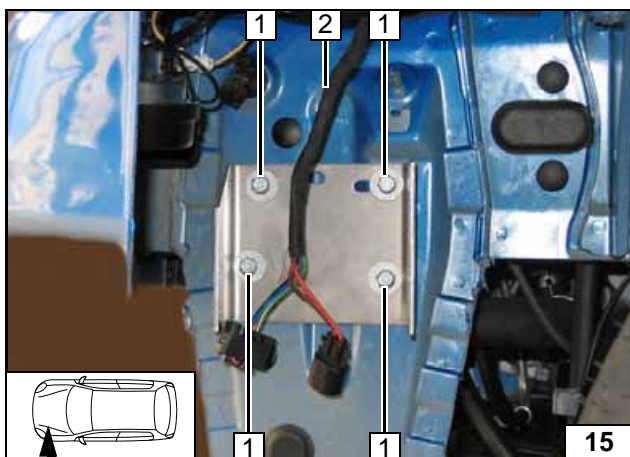
Copying hole pattern



Drill 9 mm dia. holes [4x] and mount rivet nuts 1 [4x].

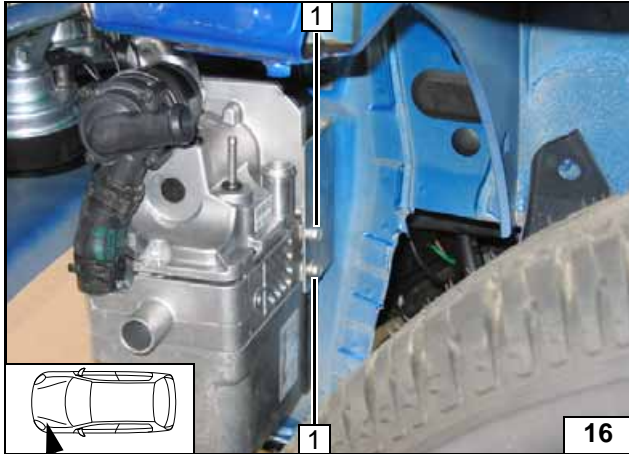
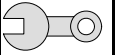


Installing rivet nut



- 1 M6x20 bolt, spring lockwasher, large diameter washer [4x each]
- 2 Wiring harness of heater

Mounting bracket



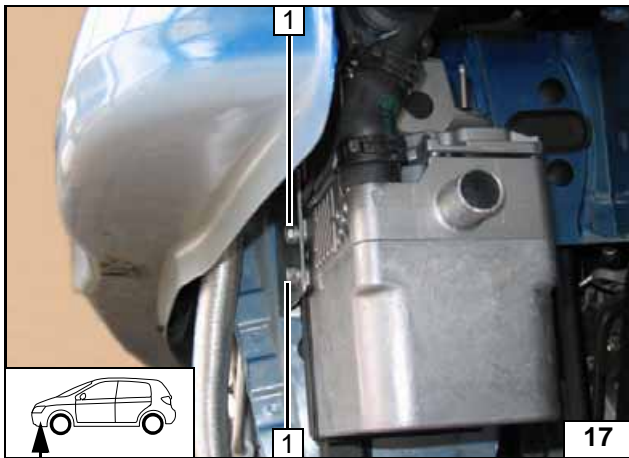
Installing heater

Connect wiring harness before installing heater.

1 Eject screw [2x]



Mounting heater



1 Eject screw [2x]

Mounting heater

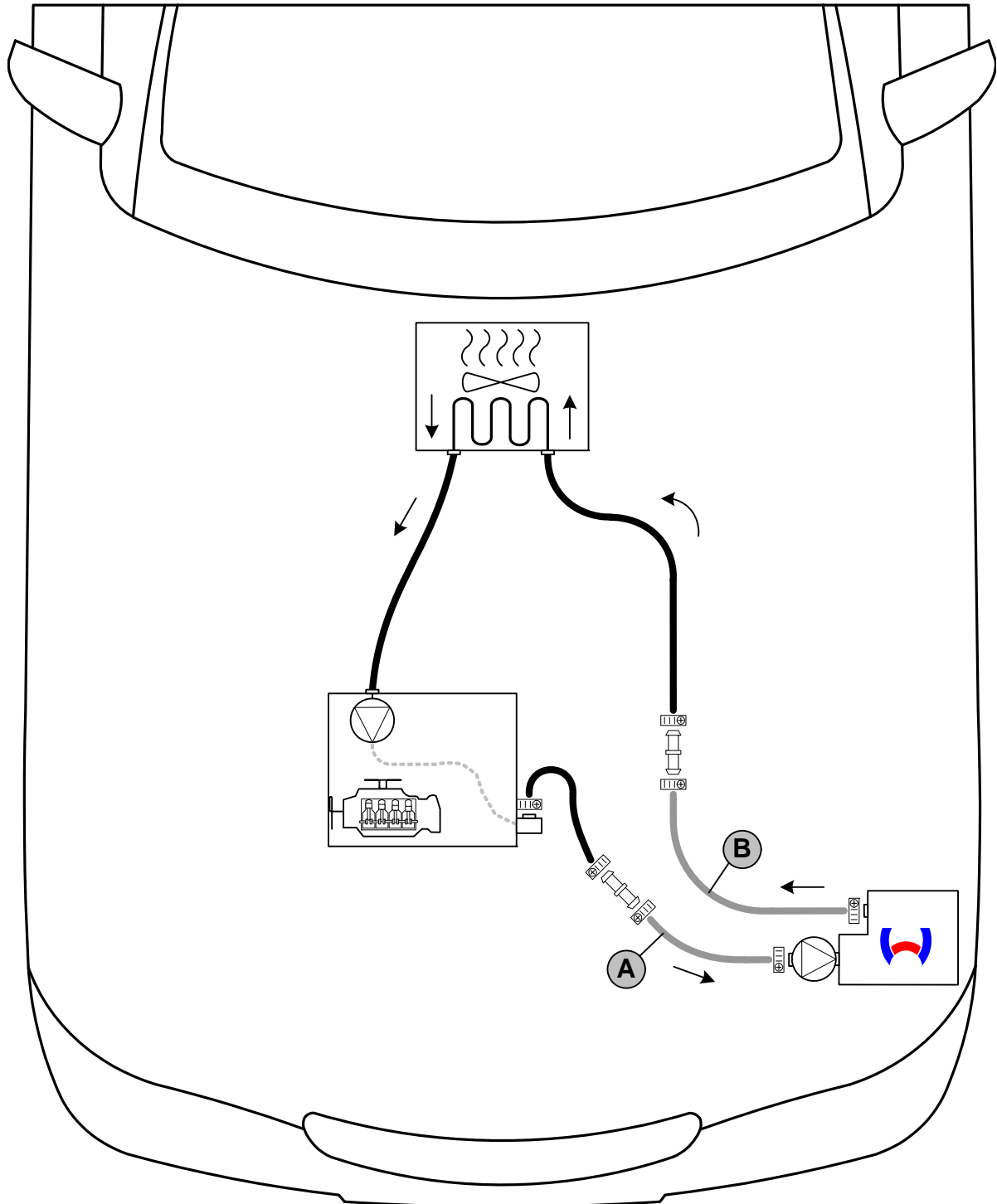


Coolant circuit 1.4l and 1.6l 64kW





WARNING!

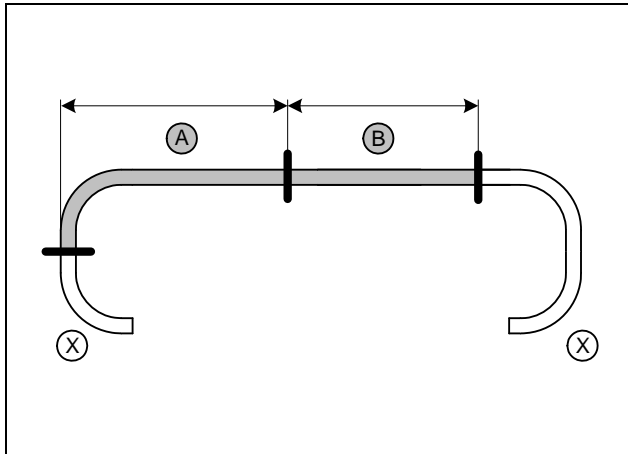
Any coolant running off should be collected in an appropriate container. Install coolant hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection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



Hose routing diagram

All connecting pipes  = 18x20 mm dia.
 All hose clamps  = 20-27mm dia.

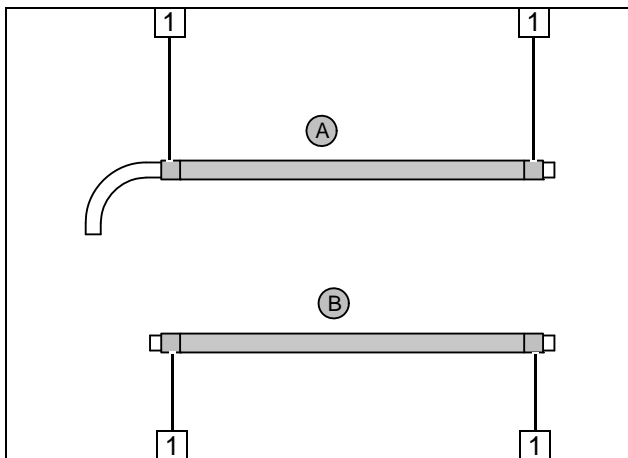




A = 580
B = 830

Discard section X

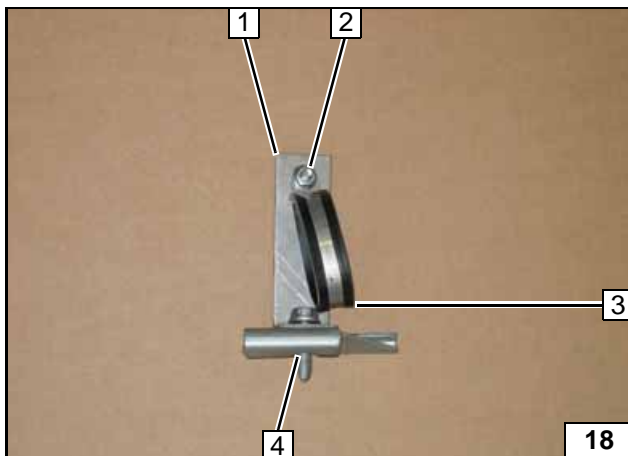
Cutting coolant hoses to length



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

1 25 mm long heat shrink plastic tubing [4x]

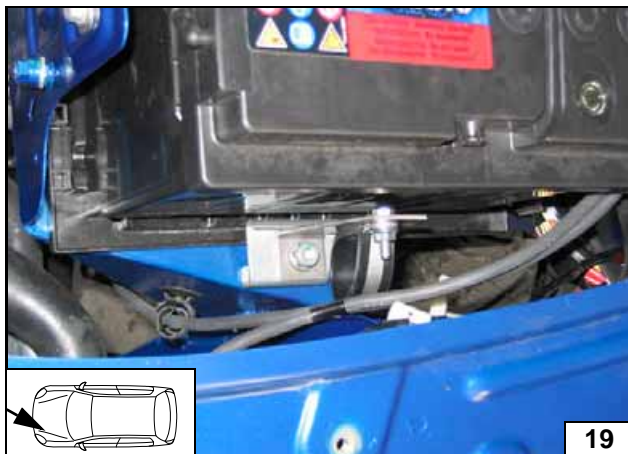
Preparing coolant hoses



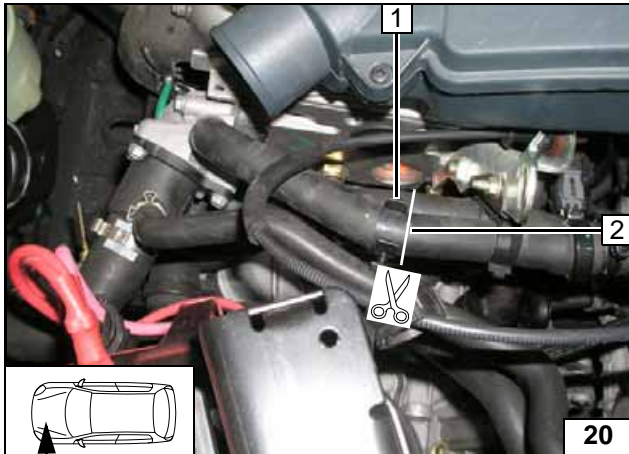
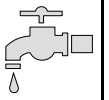
Remove battery mount 4.

- 1 Angle bracket
- 2 M6x20 bolt, flanged nut
- 3 Loosely install 48 mm dia. rubber-coated p-clamp

Preparing hose bracket



Mounting hose bracket

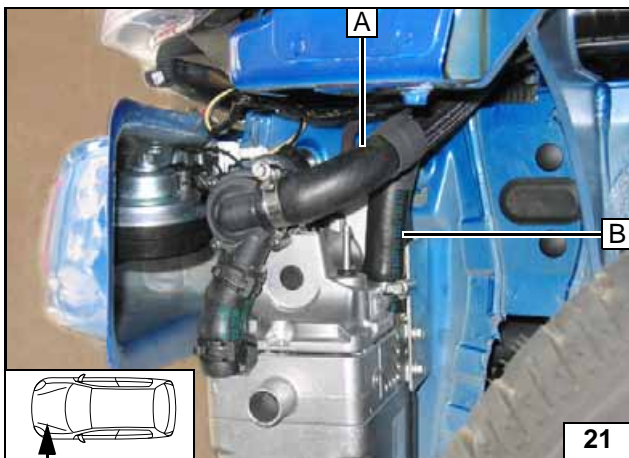


Remove hose bracket **1** before separating. This will be reused later

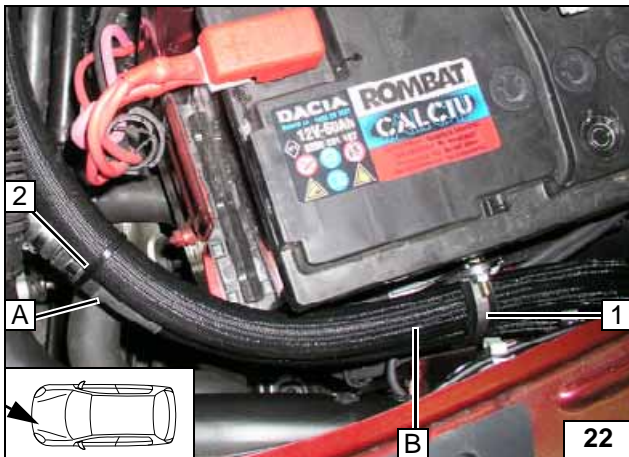
2 Cutting point



Cutting point



Connecting heater

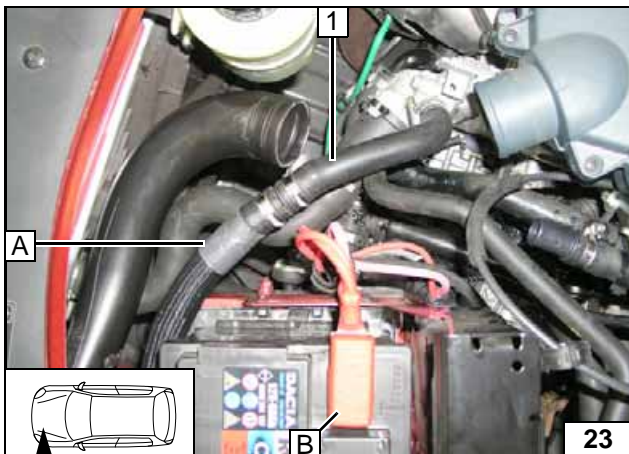


Push hose **A** and **B** through hose bracket **1** when installing. Then tighten screw connection.

2 Cable tie

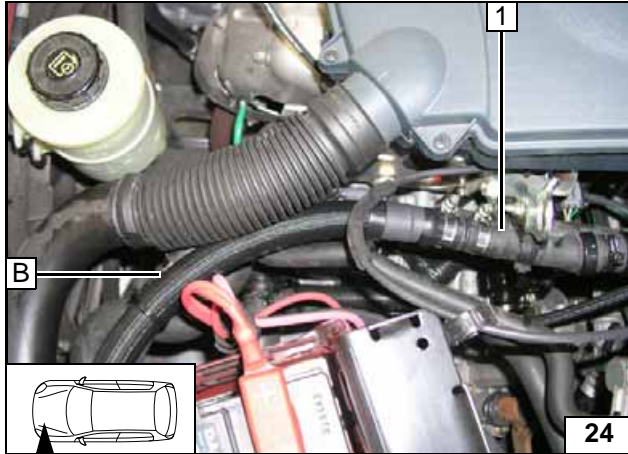


Routing in engine compartment



1 Hose on engine outlet turned

Connecting engine outlet



Ensure sufficient distance from neighbouring components.

1 Hose on heat exchanger inlet



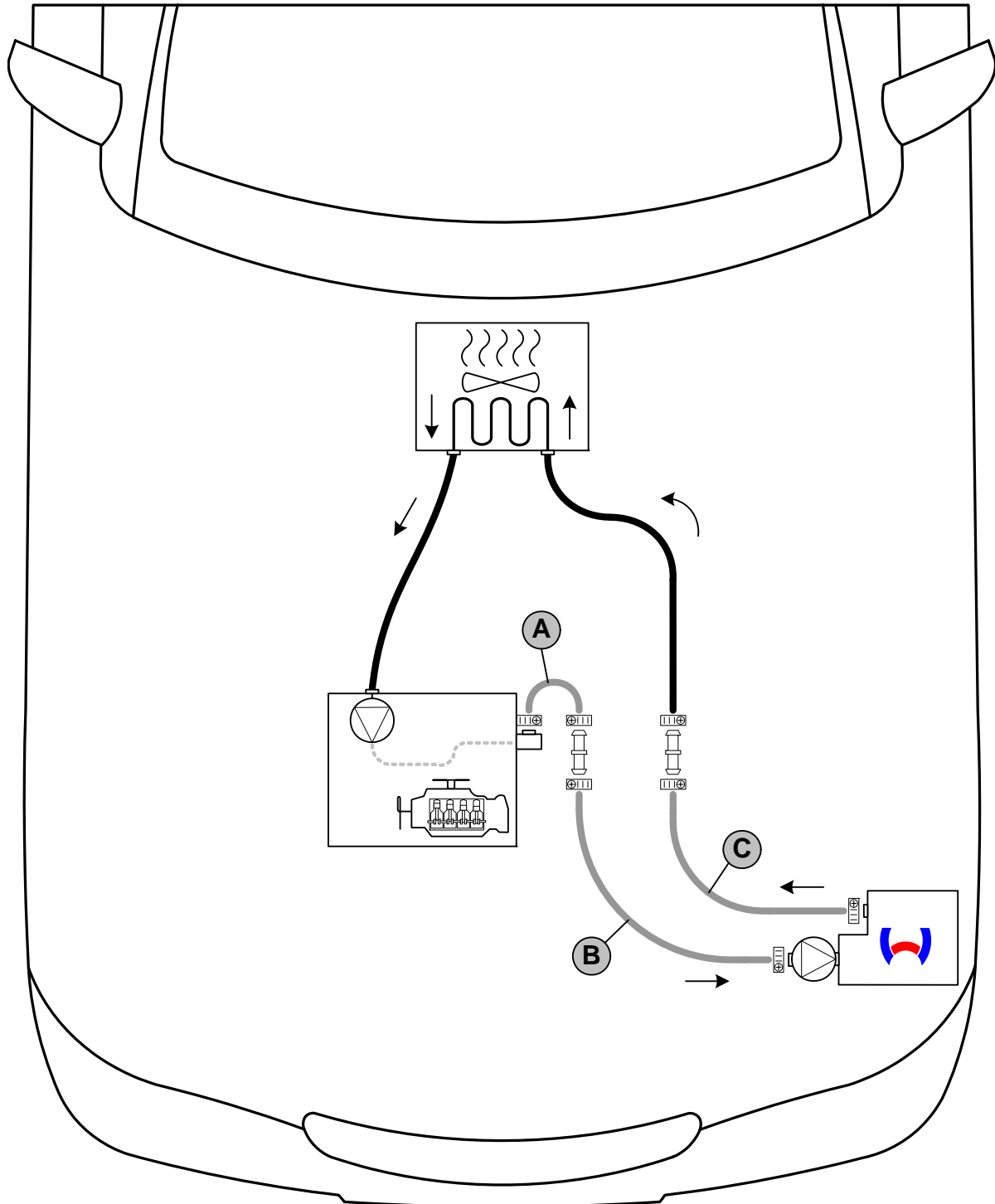
**Connect-
ing heat
exchanger
inlet**





Coolant circuit 1.6l 77kW

WARNING!

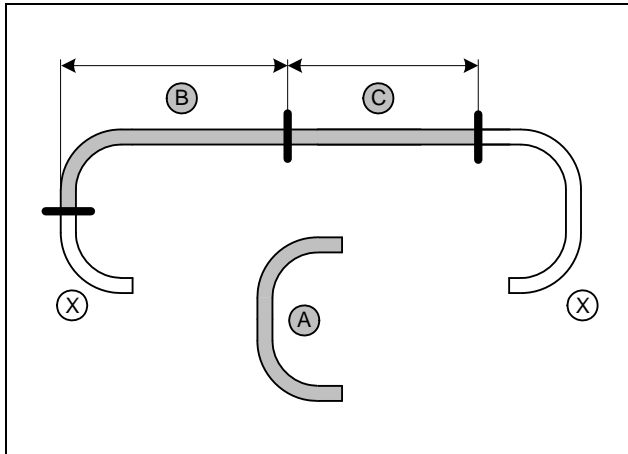
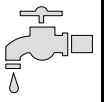
Any coolant running off should be collected in an appropriate container. Install coolant hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection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



Hose routing diagram

All connecting pipes  = 18x20 mm dia. All hose clamps  = 20-27mm dia.



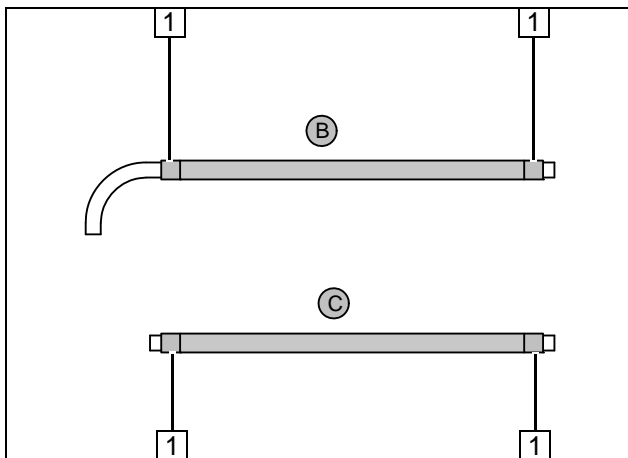


Discard section **X**
Hose **A** = 180° elbow

B = 780
C = 780



Cutting coolant hoses to length

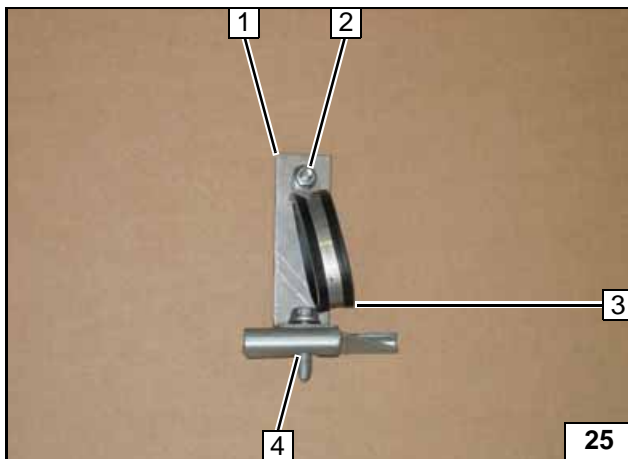


Push braided protection hoses onto hose **B** and **C** and cut to length.
Cut heat shrink plastic tubing to length.

1 25 mm long heat shrink plastic tubing [4x]



Preparing coolant hoses

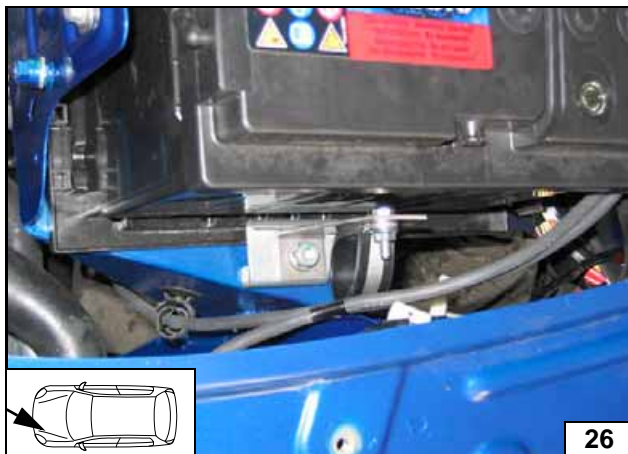


Remove battery mount **4**.

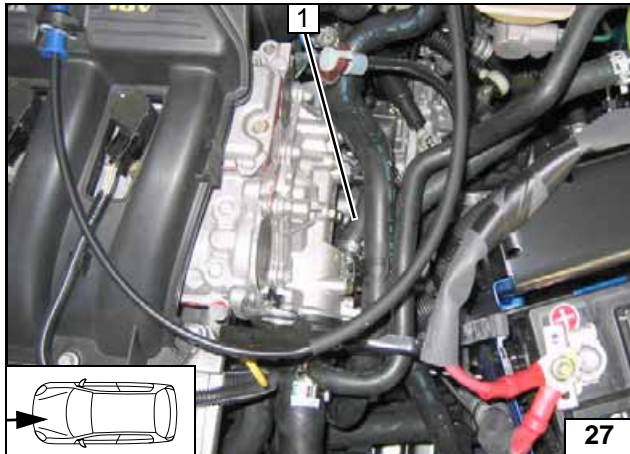
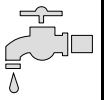
- 1** Angle bracket
- 2** M6x20 bolt, flanged nut
- 3** Loosely install 48 mm dia. rubber-coated p-clamp



Preparing hose bracket



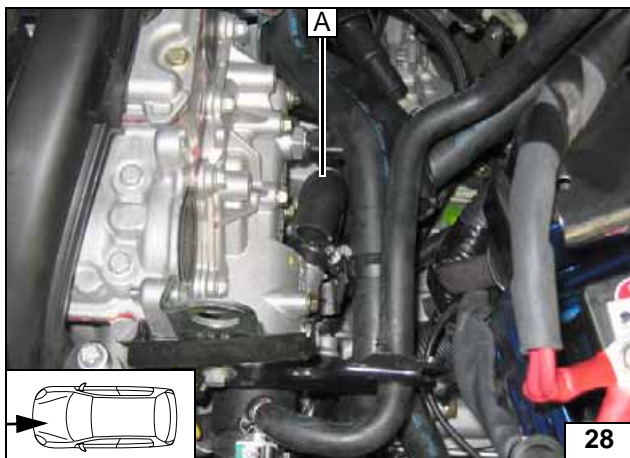
Mounting hose bracket



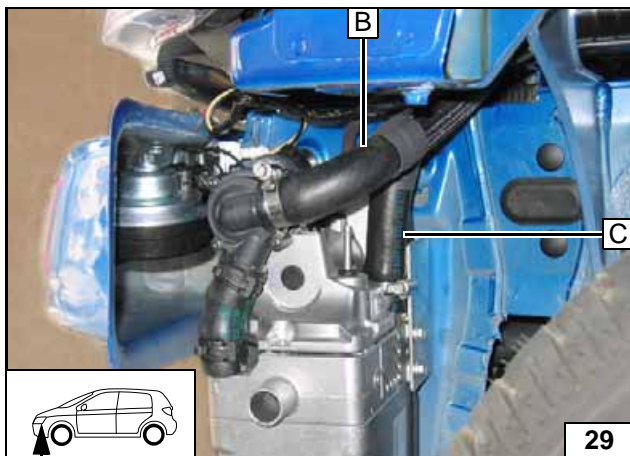
Pull out hose of heat exchanger inlet **1** from engine outlet. Discard original vehicle clamp.



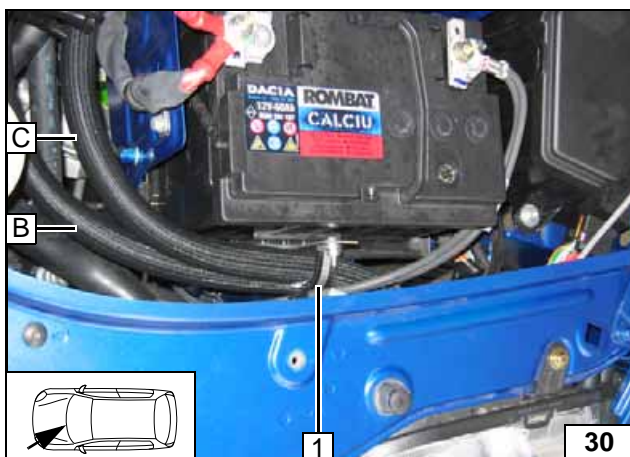
Cutting point



Connect-
ing engine
outlet



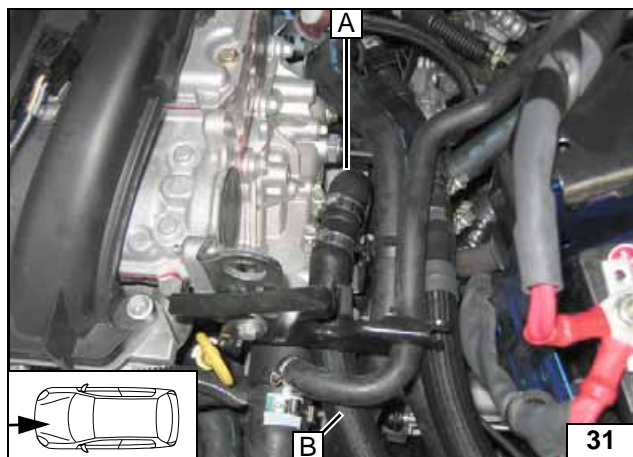
Connect-
ing heater



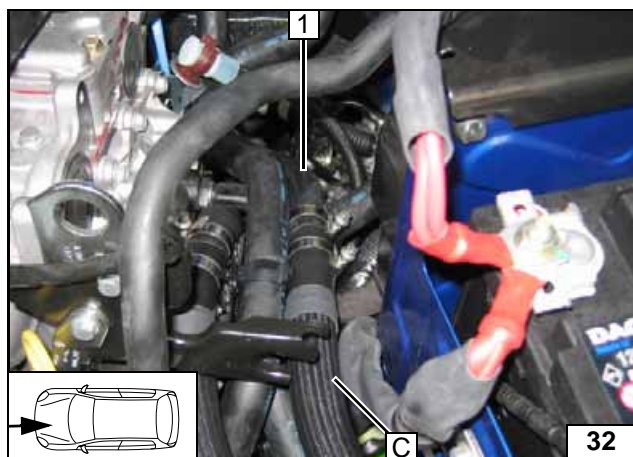
Push hose **B** and **C** through hose bracket **1** when installing. Then tighten screw connection.



Routing in
engine
compartment



Con-
nec-
tion to
hose A

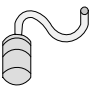


Ensure sufficient distance from neighbouring components.



1 Hose on heat exchanger inlet

Connect-
ing heat
exchanger
inlet



Combustion air

- 1 Cable tie [4x]



**Fastening
silencer**



Fuel

CAUTION!

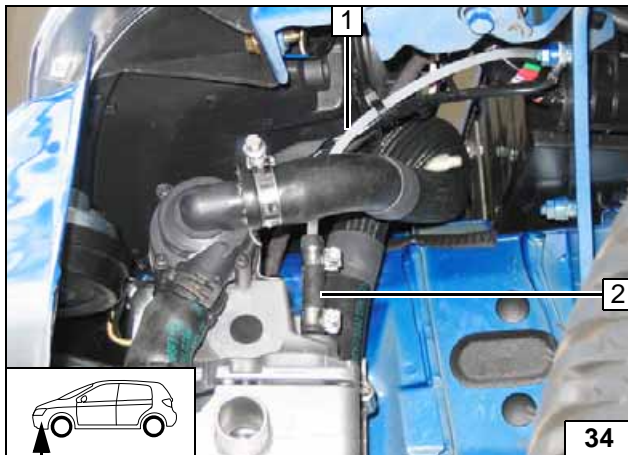
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.

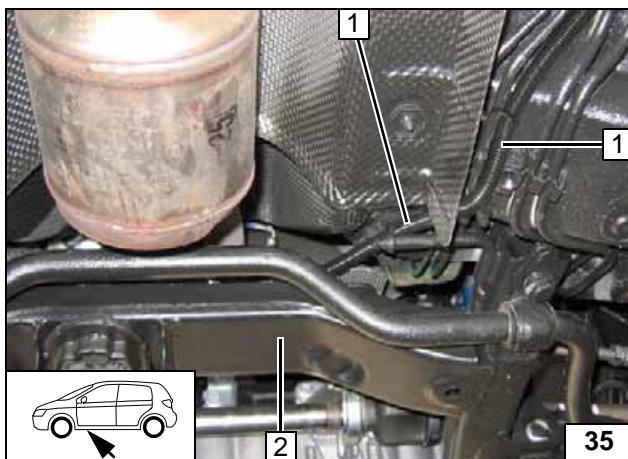
WARNING!

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



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

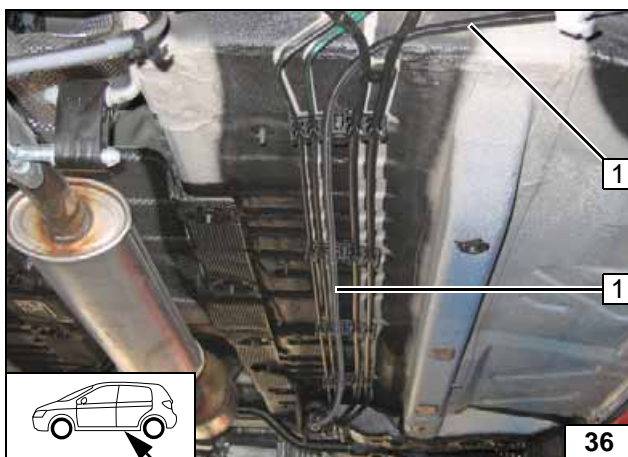
Connection to heater



Pull fuel line with wiring harness of metering pump in corrugated tube 1, to underbody and over cross member 2 to the right hand side of the vehicle.



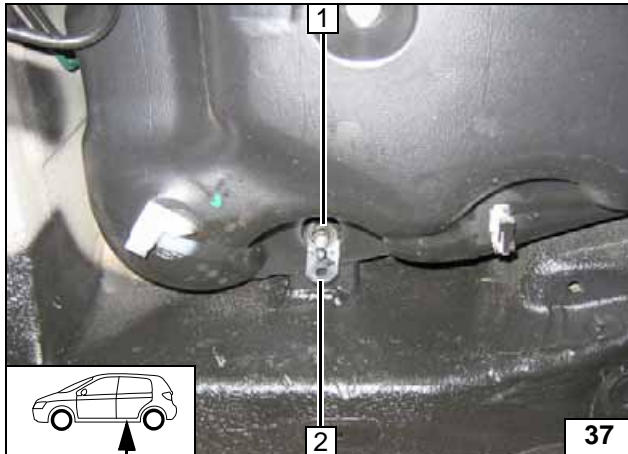
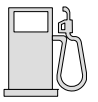
Routing lines



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



Routing lines

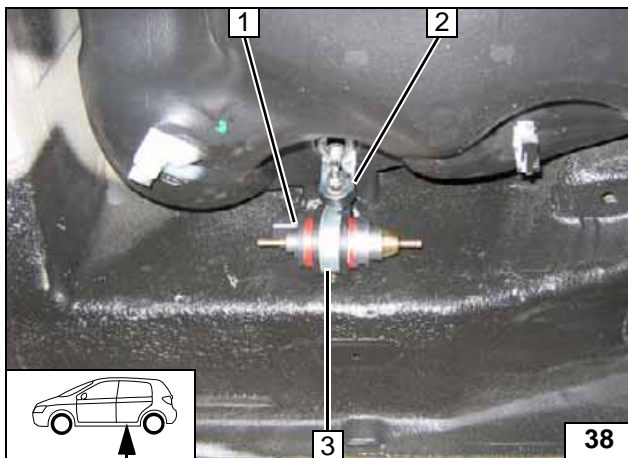


Drill angle bracket at position 1 to 8.5mm dia.

- 1 Original vehicle stud bolt with nut
- 2 Angle bracket

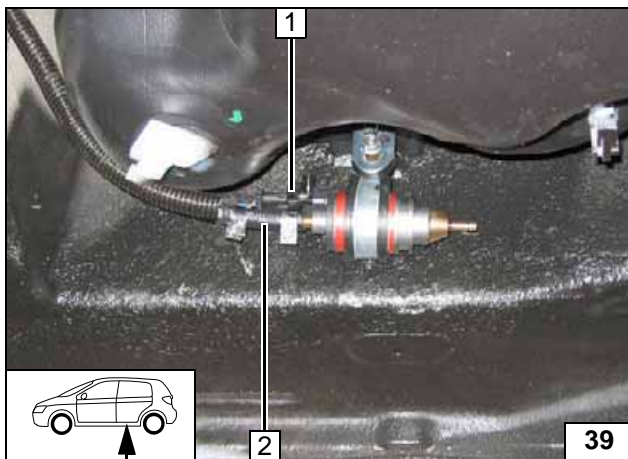


Mounting metering pump



- 1 Metering pump
- 2 Silent block, flanged nut [2x]
- 3 Rubber-coated p-clamp

Mounting metering pump

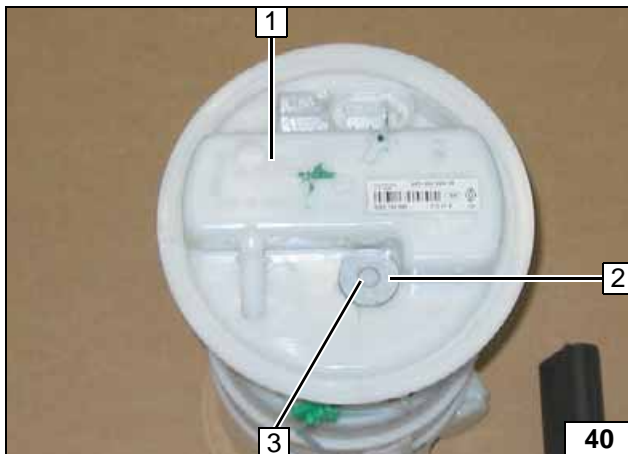


Check the position of the components; adjust if necessary. Check that they have freedom of movement.

- 1 Wiring harness of metering pump, connector installed
- 2 Fuel line of heater, hose section, 10mm dia. clamp [2x]



Connecting metering pump



Remove fuel-tank sending unit 1 in accordance with manufacturer's instructions.

- 1 Fuel-tank sending unit
- 2 Place large diameter washer dia. $d_a = 21.6\text{mm}$.
- 3 Copy hole pattern, 6 mm dia. hole



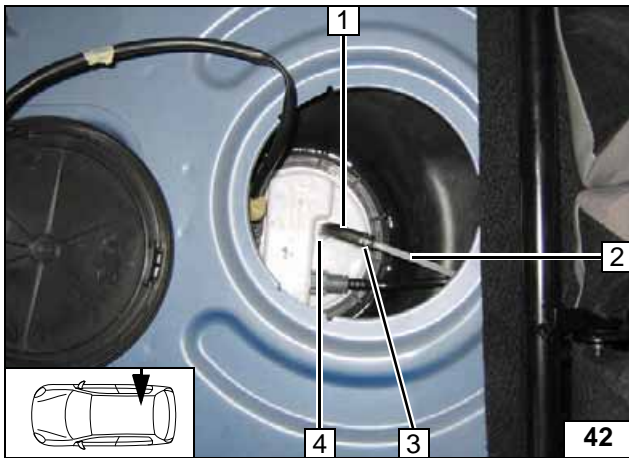
Fuel extraction



Shape fuel standpipe 1 according to template, cut to length and install.



Installing fuel standpipe

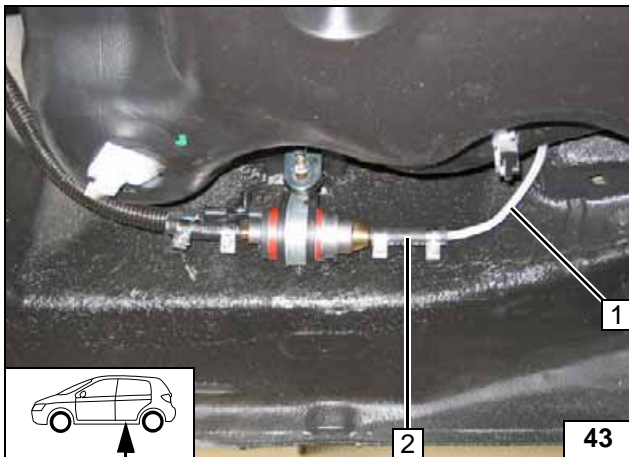


Install fuel-tank sending unit according to manufacturer's instructions.



Connecting fuel line

- 1 Moulded hose, dia. 3.5 x 4.5
- 2 Fuel line
- 3 10mm dia. clamp
- 4 8mm dia. clamp

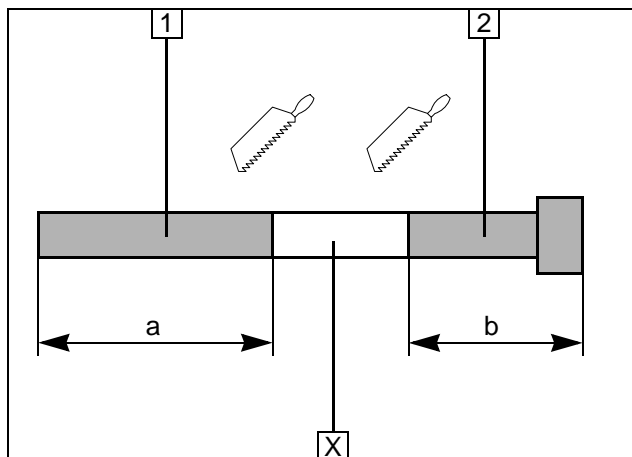
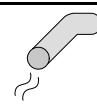


Check the position of the components; adjust if necessary. Check that they have freedom of movement.



Connecting to metering pump

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



Exhaust gas

Discard section X

Logan and Sandero

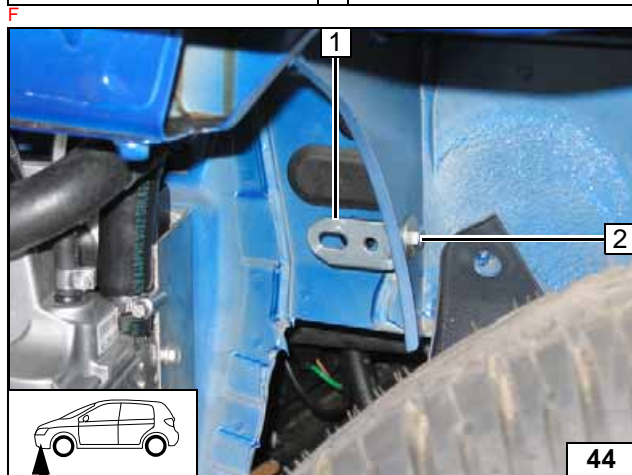
- 1 Exhaust pipe
a = 400
- 2 Exhaust end section
b = 230

Duster

- 1 Exhaust pipe
a = 400
- 2 Exhaust end section
b = 450



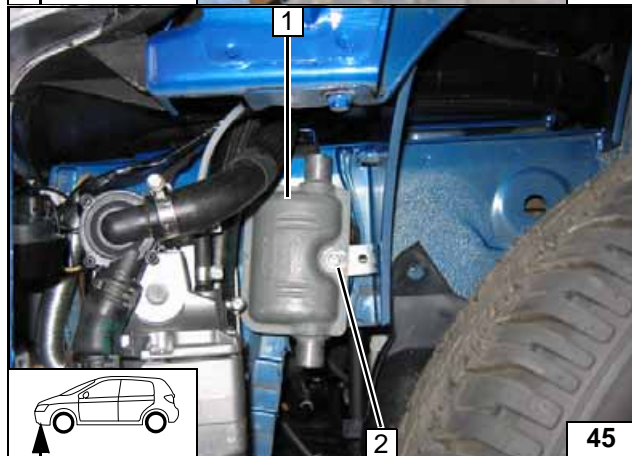
Preparing exhaust pipe



All vehicles

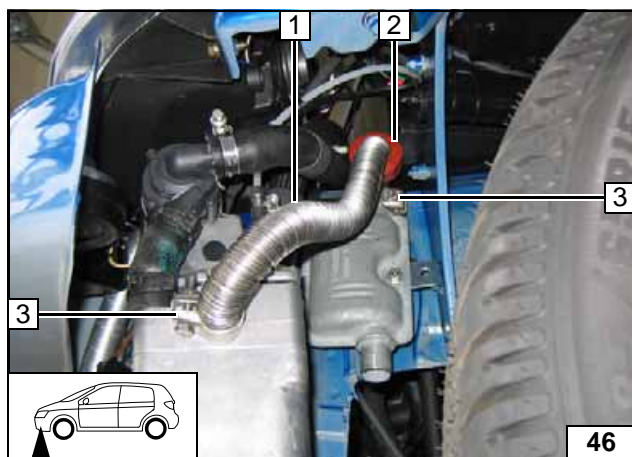
- 1 Angle bracket
- 2 M6x20 bolt, large diameter washer, original vehicle hole, flanged nut

Mounting silencer



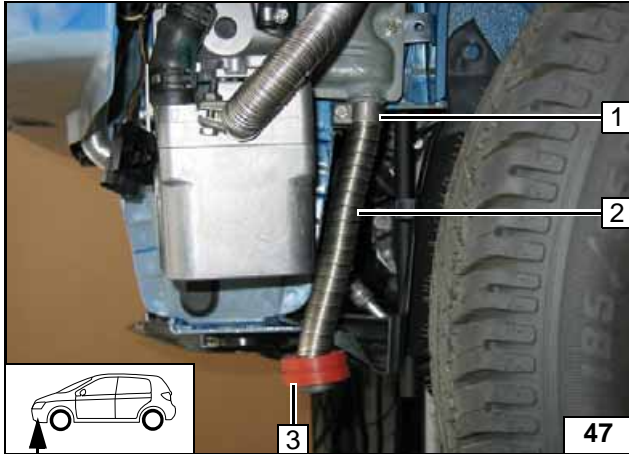
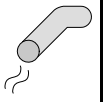
- 1 Silencer
- 2 M6x20 bolt, flanged nut

Mounting silencer



- 1 Exhaust pipe
- 2 Red (rt) rubber isolator
- 3 Hose clamp [2x]

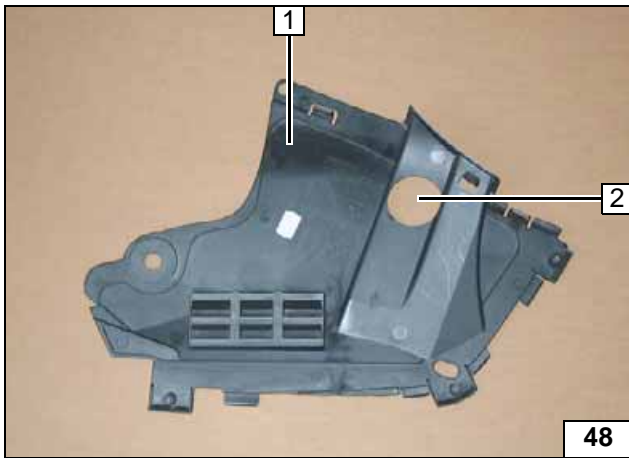
Mounting exhaust pipe



Logan and Sandero

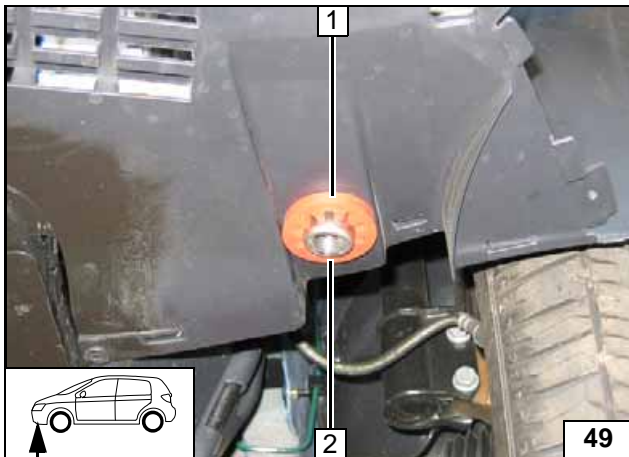
- 1 Hose clamp
- 2 Exhaust end section
- 3 Red (rt) rubber isolator with groove

Mounting end section



- 1 Trim piece
- 2 42 mm dia. hole

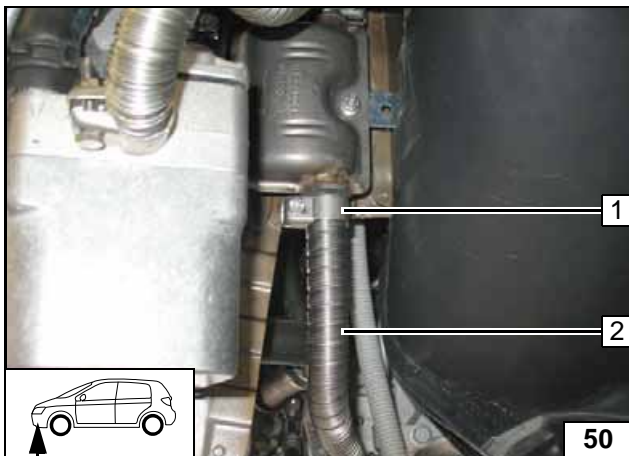
Hole in trim



Align exhaust end section 2 flush on red rubber isolator 1.



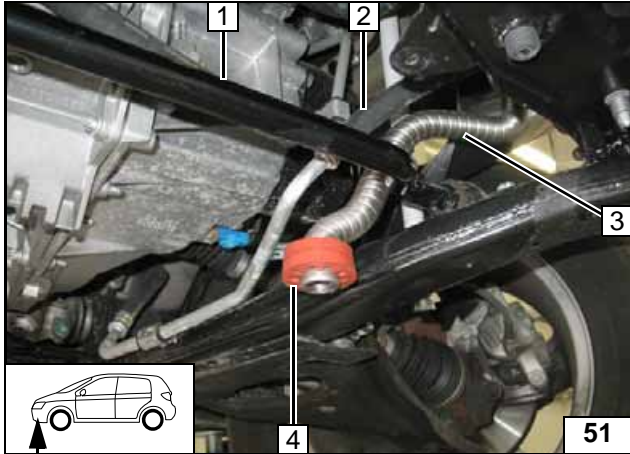
Mounting rubber isolator



Duster

- 1 Hose clamp
- 2 Exhaust end section

Mounting end section

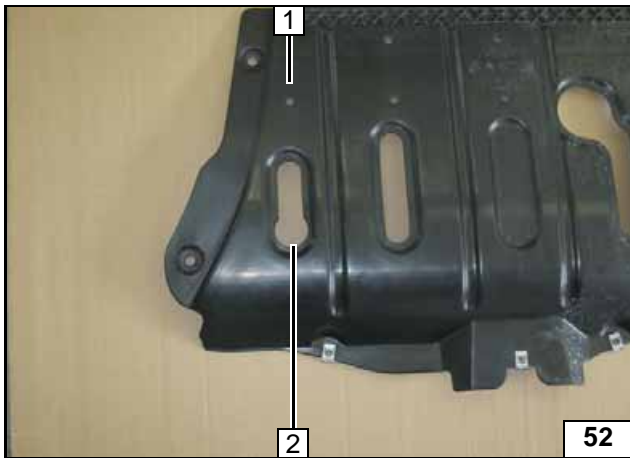


Ensure sufficient distance from stabilizer 1 and the hydraulic line 2.

- 3 Exhaust end section
- 4 Red (rt) rubber isolator with groove



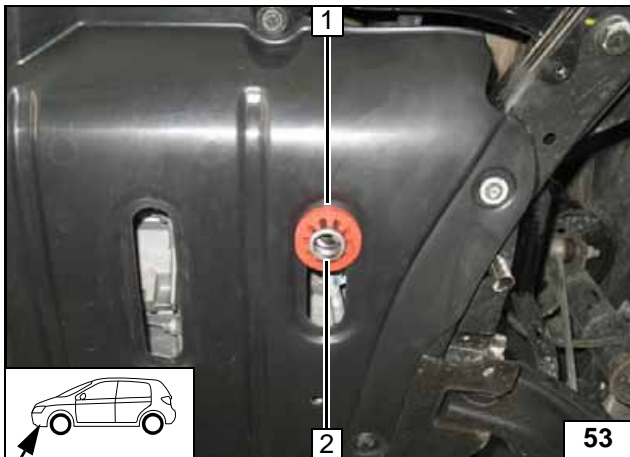
Mounting end section



- 1 Trim piece
- 2 42 mm dia. hole



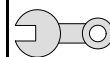
Drilling trim



Align exhaust end section 2 flush on red rubber isolator 1.



Mounting rubber iso-lator



Final Work

WARNING!

Reassemble the disassembled components in reverse order.

Check all hoses, clamps and all electrical connections for firm seating.

Secure all loose lines using cable ties.

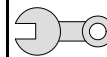
Only use manufacturer-approved coolant.

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

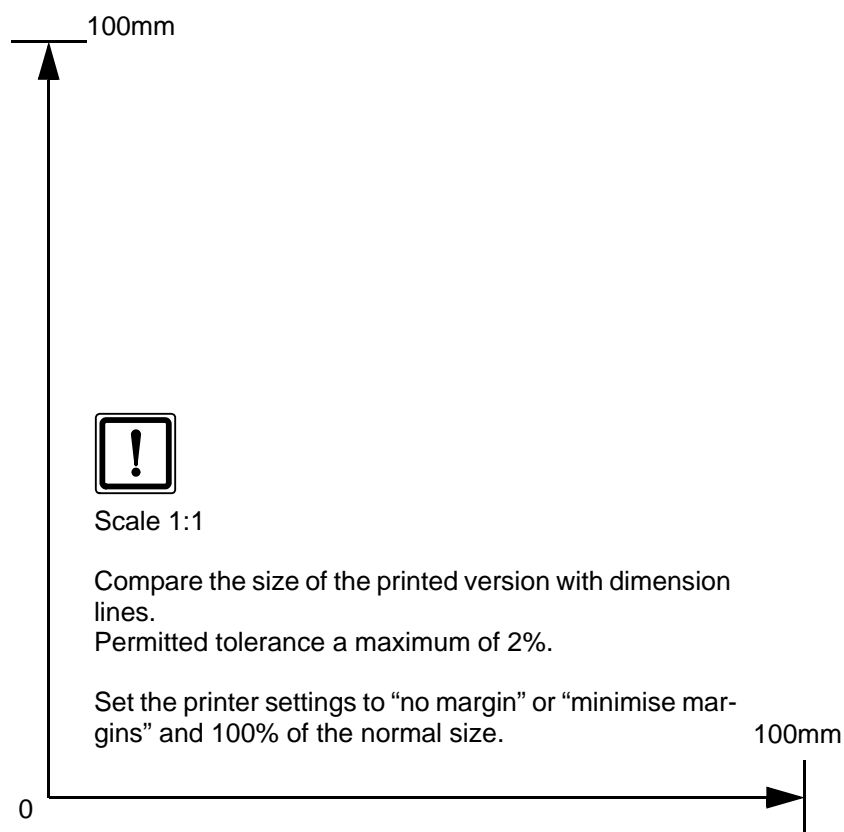
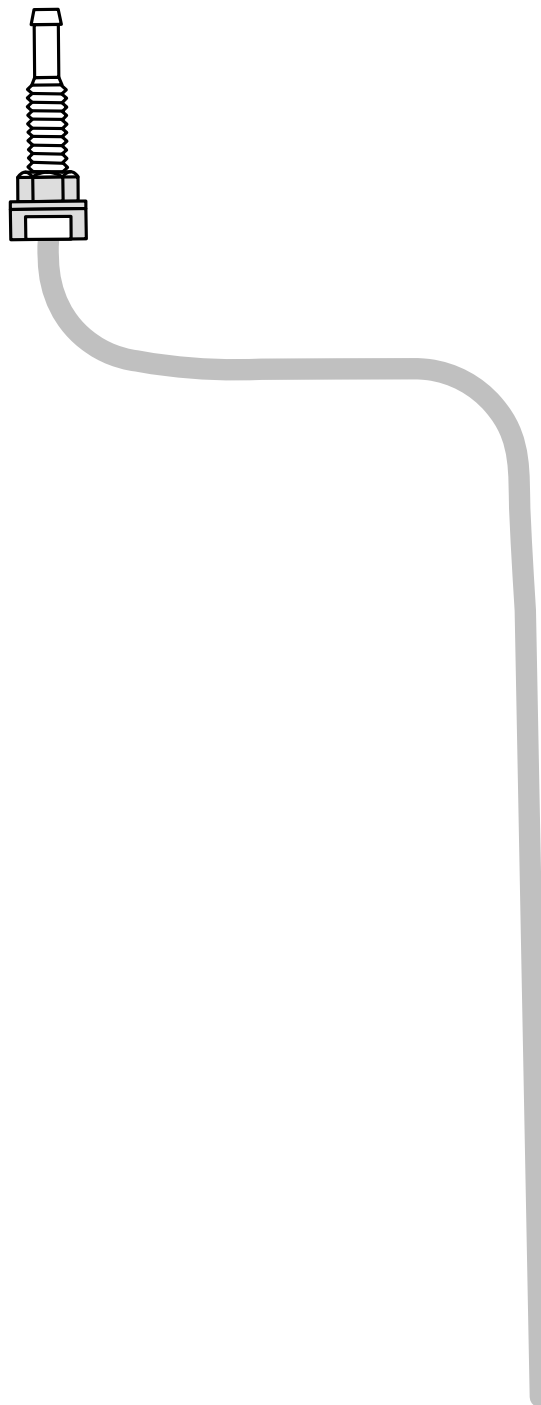
- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the digital timer.
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Place signboard "Switch off parking heater before refuelling"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



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>



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.

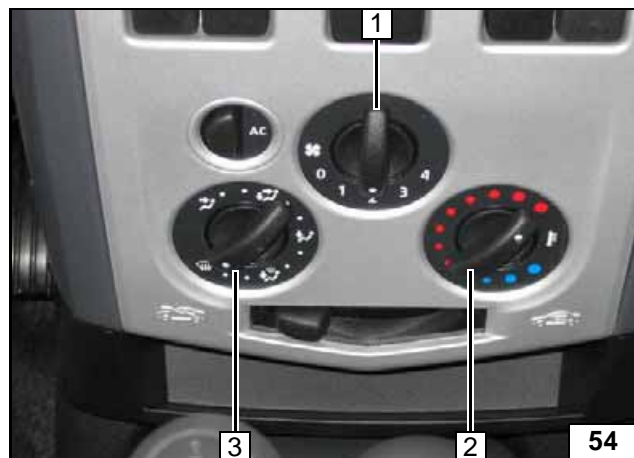
Heating time = driving time

Example:

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

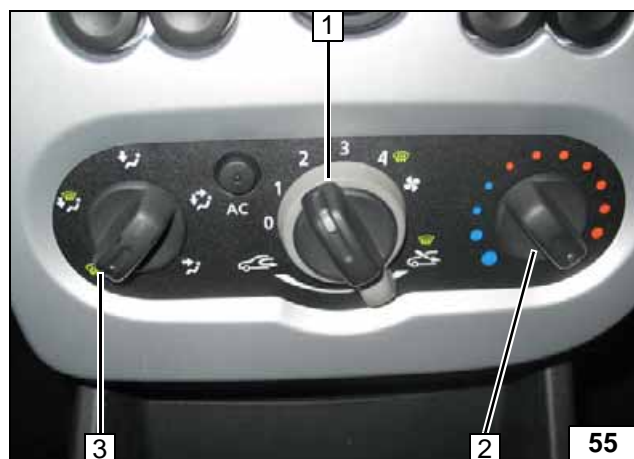
If the summer/winter switch option has been installed, it must be switched in accordance with the time of year. The heater will then heat in the position Winter  and in the position Summer  it will only switch on the vehicle fan to ventilate the vehicle interior.

Before parking the vehicle, make the following settings:



Dacia Logan

- 1 Set fan to level "1", or possibly "2"
- 2 Set temperature to "max."
- 3 Direct air outlet toward windscreen



Dacia Sandero and Dacia Duster

- 1 Set fan to level "1", or possibly "2"
- 2 Set temperature to "max."
- 3 Direct air outlet toward windscreen

Manual air conditioning

Manual air conditioning