

Water Heater Unit



Thermo Top E Additional Heater e1 00 0003

Thermo Top C Additional Heater e1 00 0002

Thermo Top P Additional Heater e1 00 0104

Installation Instructions

Dacia Logan

Special

Gasoline

from Model Year 2006

Left-hand drive vehicle



WARNING!

Hazard warning:

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

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

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

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

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

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Validity

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

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

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

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

Heater Unit/Installation Kit

| Quantity | Description | Order No.: |
|----------|---|------------------------|
| 1 | Renault-specific heater unit delivery scope | See Renault price list |
| 1 | Installation kit for special Dacia Logan Gasoline | 1312497A |

Heater unit recommended for the respective vehicle class:

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

The selection of the heater unit 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 Dacia Logan Gasoline 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 these installation instructions.

However, the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C/P/E* 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 should be fitted with edge protectors (split-open plastic hose).

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

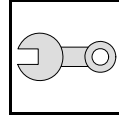
Special Tools

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

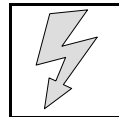
Explanatory Notes on Document

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.

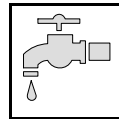
Mechanical system



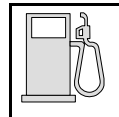
Electrical system



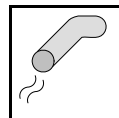
Water



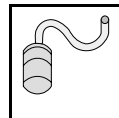
Fuel



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!

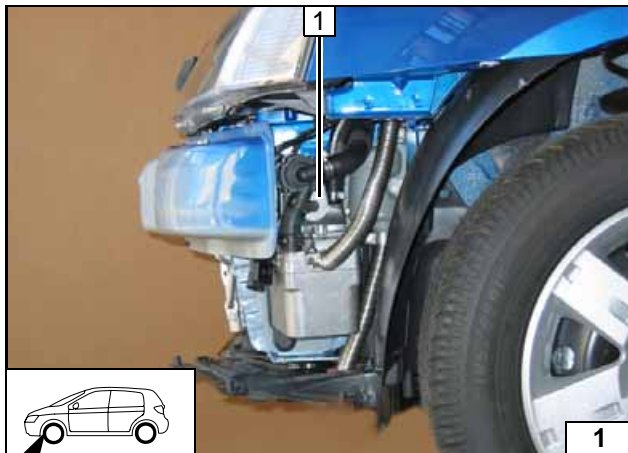
Tightening torque of Ejet screws, Ejet studs = 10 Nm!

Preliminary Work

WARNING!

- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.
- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Remove the air filter complete with the intake hose (only on 1.6 l 16V)
- Remove the left-hand wheel well trim
- Remove the bumper
- Remove the underride protection on the left
- Open the right-hand fuel sender service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the fan controls

Remove page 26 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater unit installation location

- 1 Heater unit

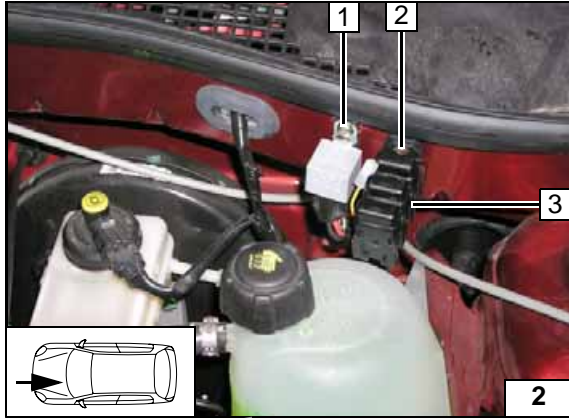
Installation
location



Electrical system

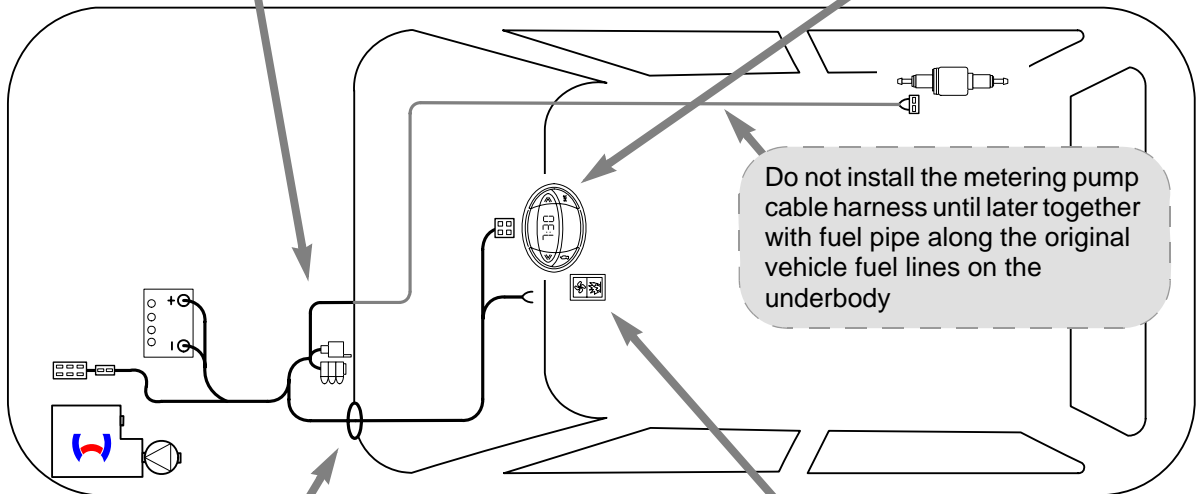
Fuse holder, relay K3

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

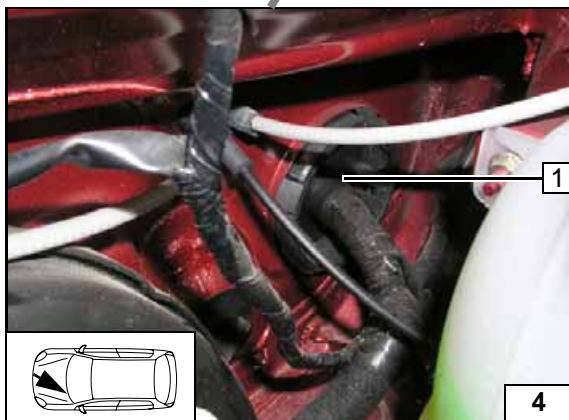


Digital timer

- 1 Digital timer



Wiring harness installation diagram



Wiring harness pass through

- 1 Protective rubber plug

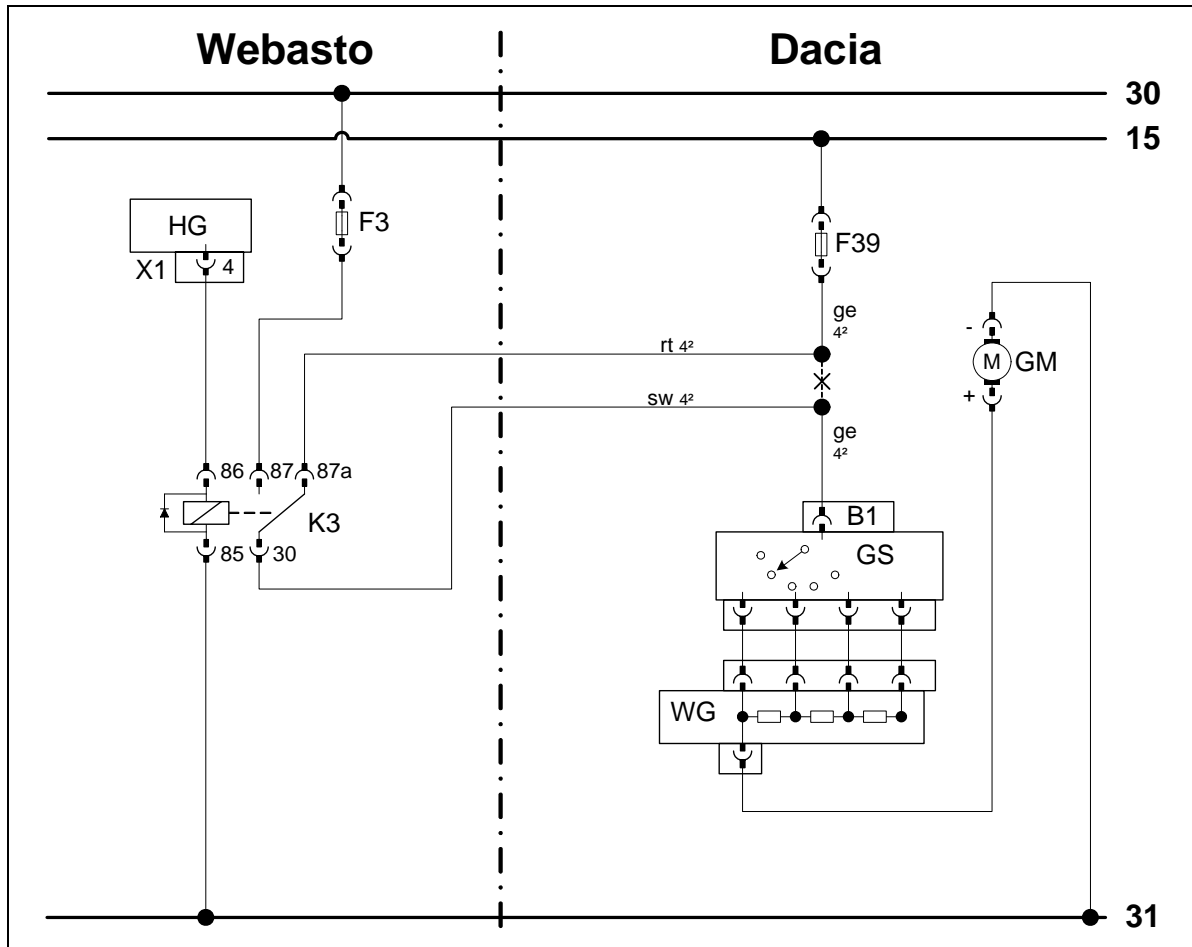


Summer/winter switch option

- 1 Summer/winter switch



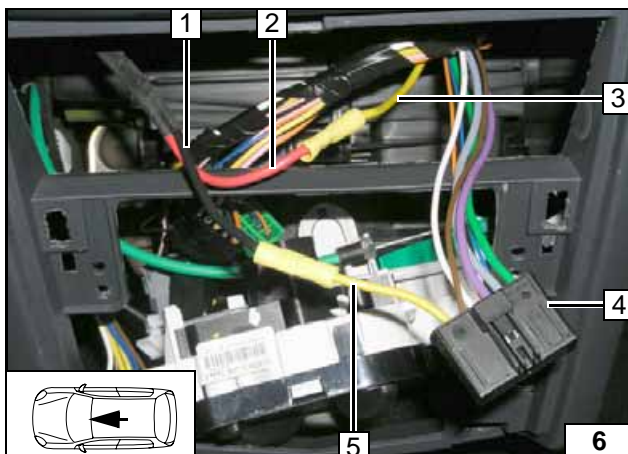
Fan controller



Wiring diagram

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

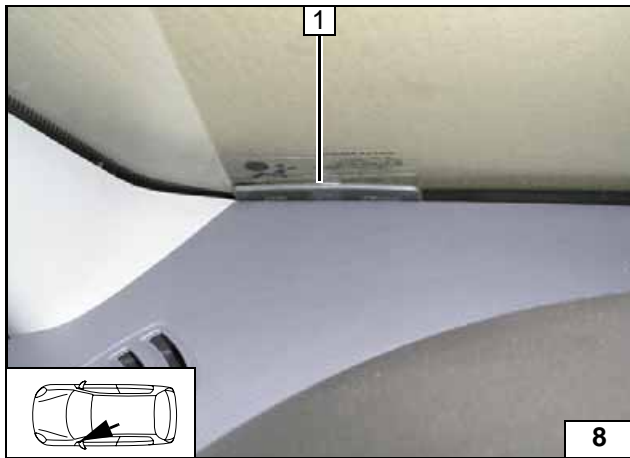


Remote option (Telestart)

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

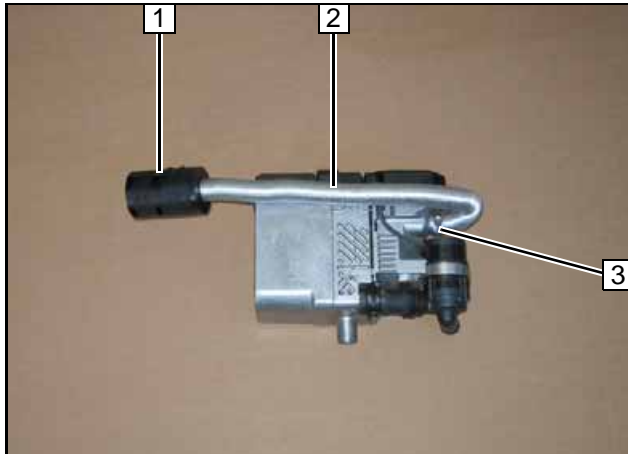
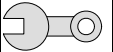


Installing receiver



- 1 Antenna

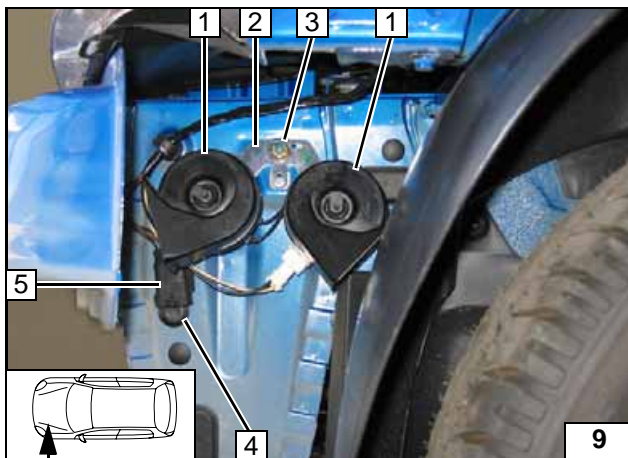
Installing antenna



Preparing heater unit

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

Preassembling combustion air



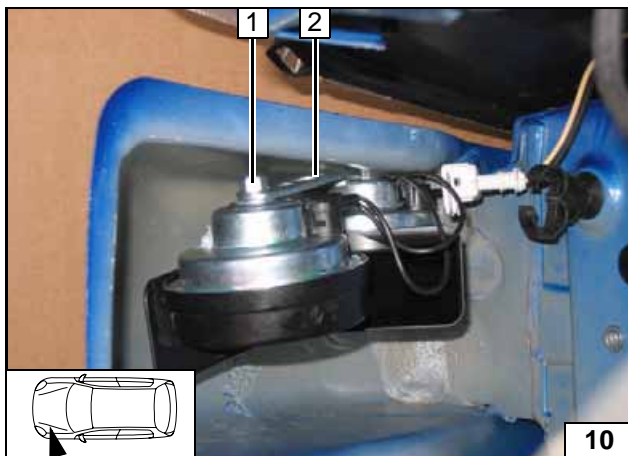
Preparing installation location

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

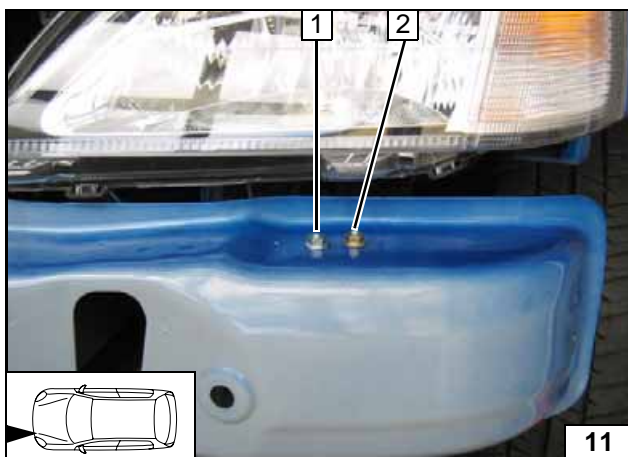


Removing horns



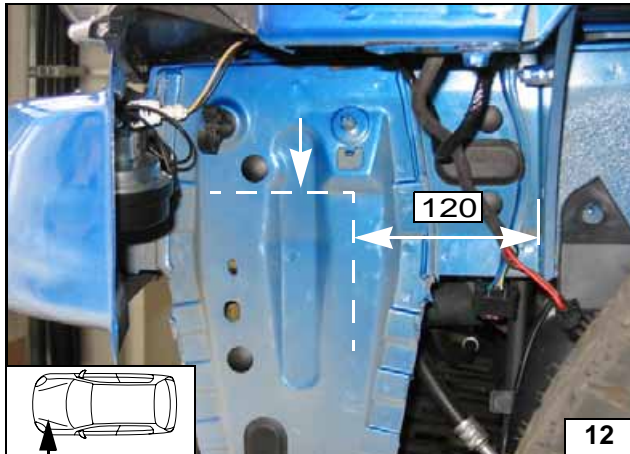
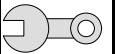
- 1 Original vehicle M6 flanged nut
- 2 Perforated bracket

Installing horns



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

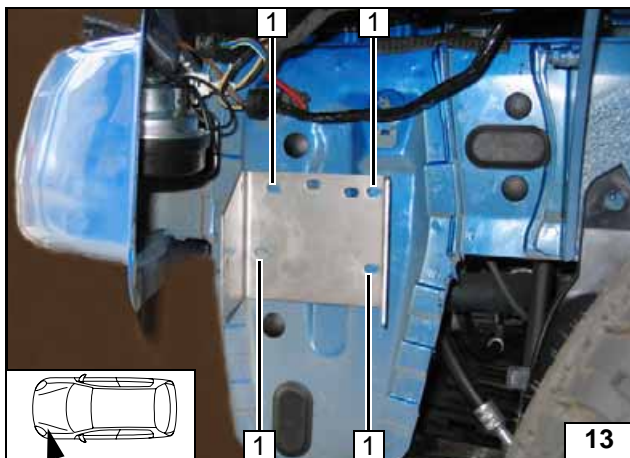
Installing horns



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



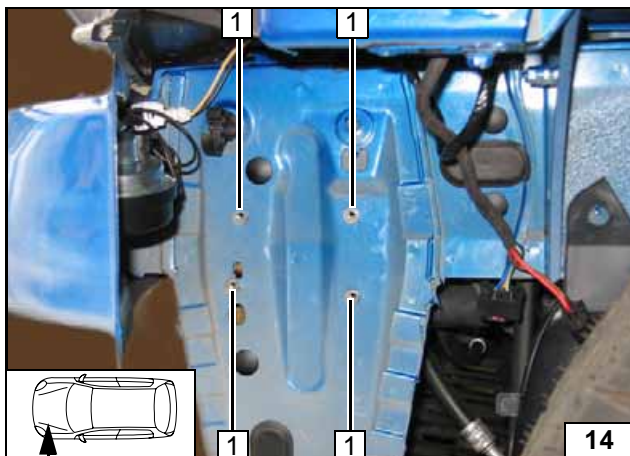
Laying on bracket



Copy hole pattern 1 [4x].



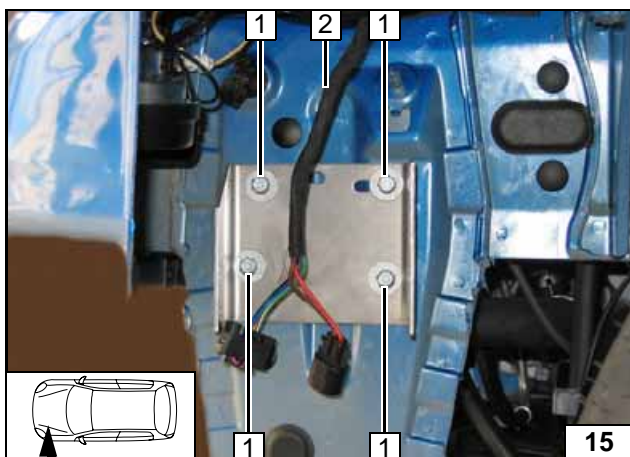
Copying hole pattern



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

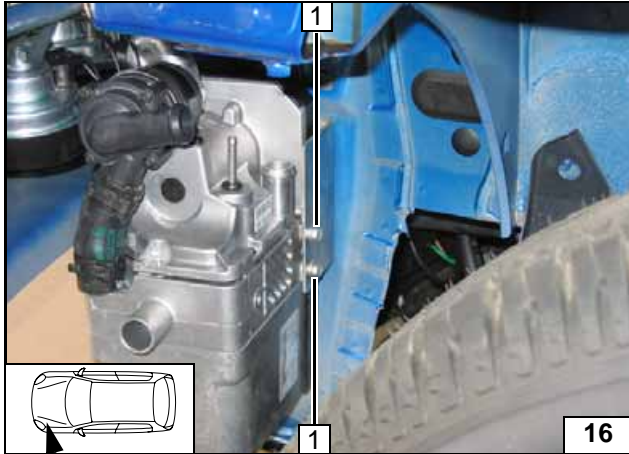
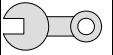


Installing rivet nut



- 1 M6x20 bolt, spring lockwasher, flanged nut [4x each]
- 2 Wiring harness of heater unit

Installing bracket



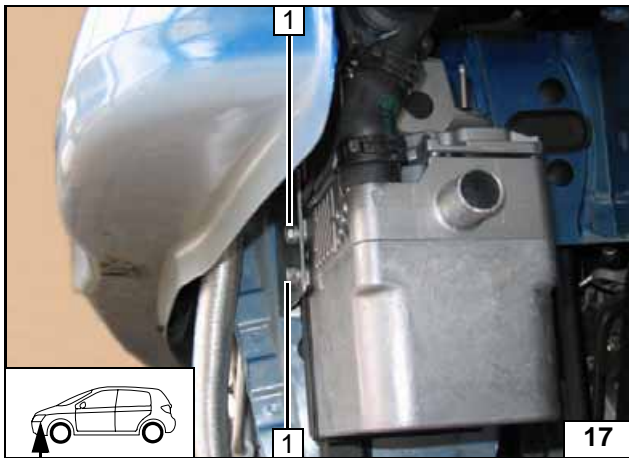
Installing heater unit

Connect wiring harness before installing heater unit.

1 Eجت screw [2x]



Installing heater unit



1 Eجت screw [2x]

Installing heater unit

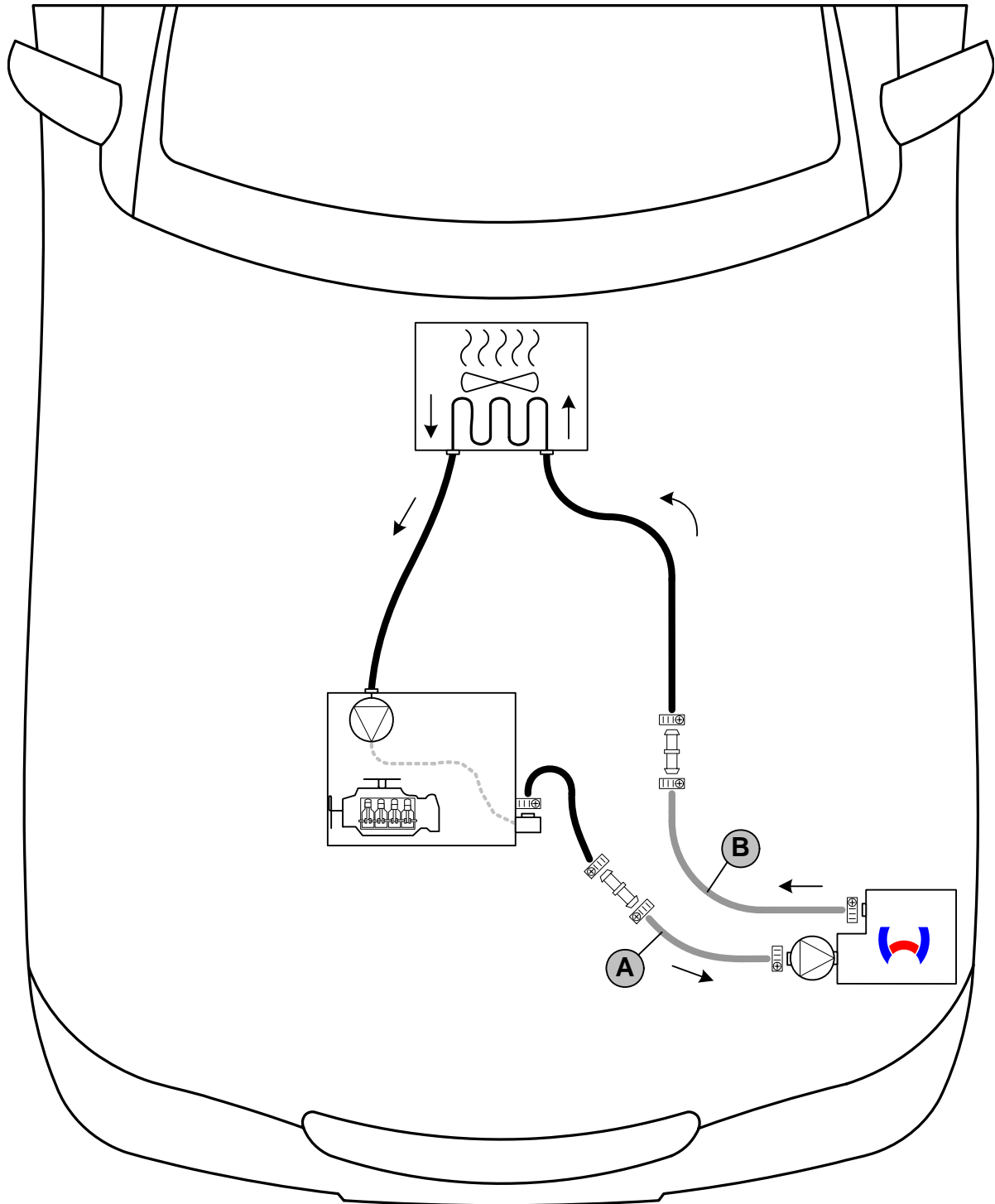


Coolant connection on 1.4l MPI and 1.6l MPI

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 no other hose can be damaged! When installing the coolant hose, the heater unit must be filled with coolant.

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

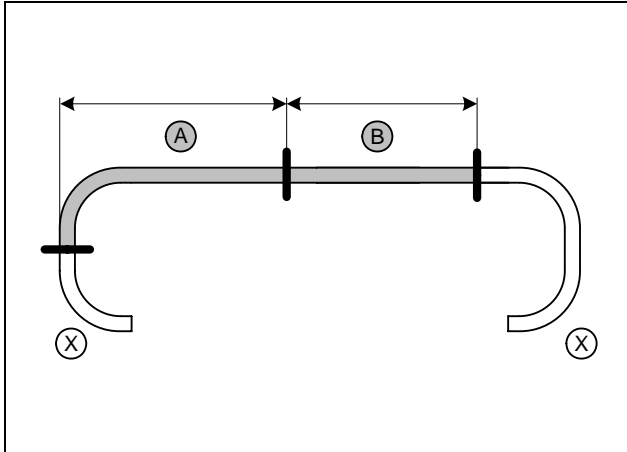


Coolant routing diagram

All connecting pipes  = Ø 18x20.

All hose clamps without a specific designation  = 20-27 mm dia.

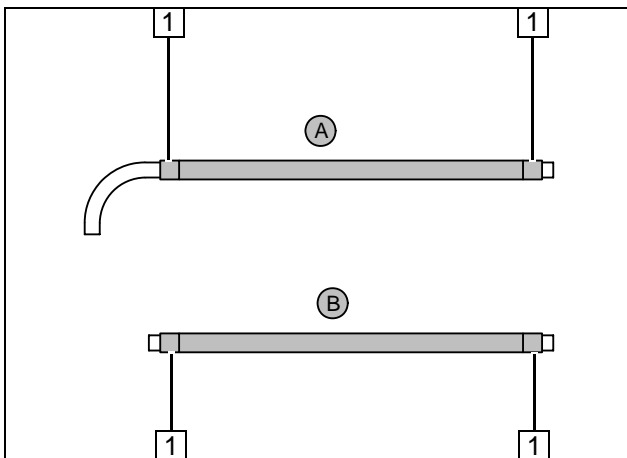




a = 580
b = 830

Discard section X

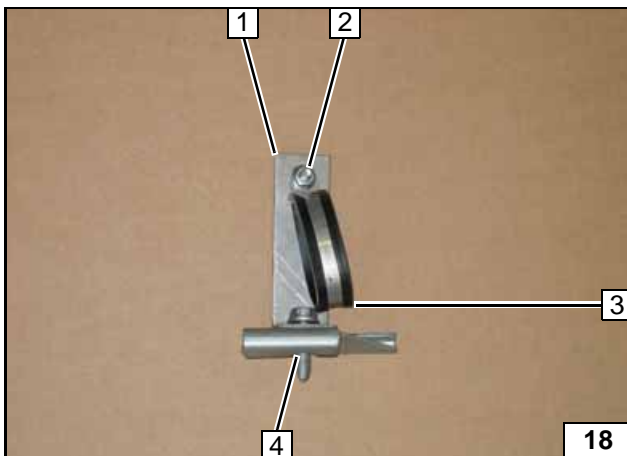
Cutting coolant hoses to length



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]

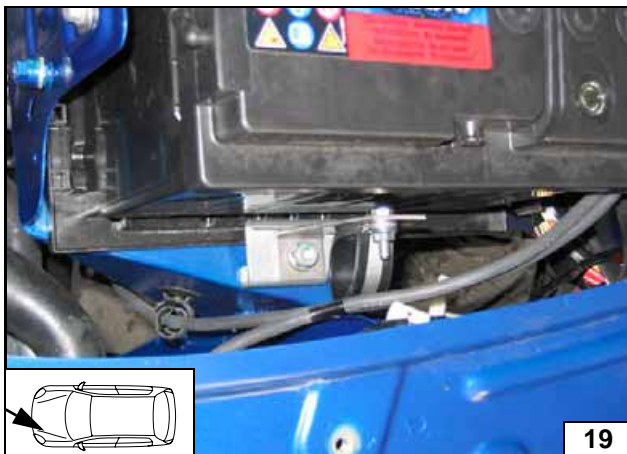
Preparing coolant hoses



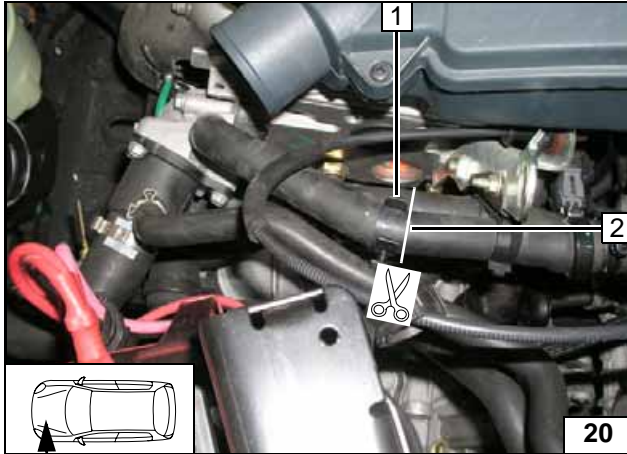
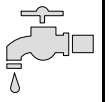
Remove battery mount 4.

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

Preparing hose bracket



Installing hose bracket

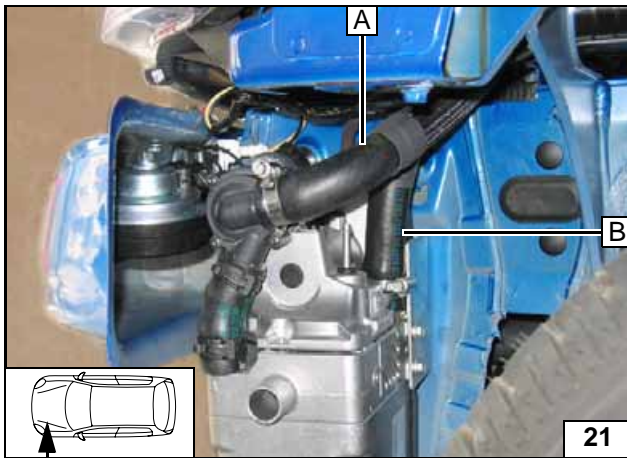


Remove hose bracket **1** before separating. This will be reused later!

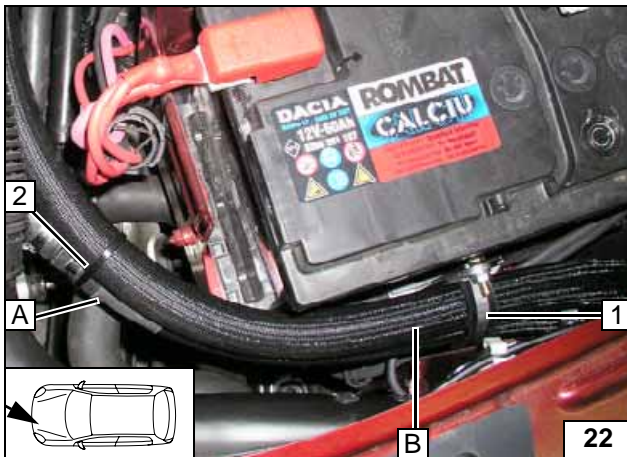
2 Cutting point



Cutting point



Connecting heater unit

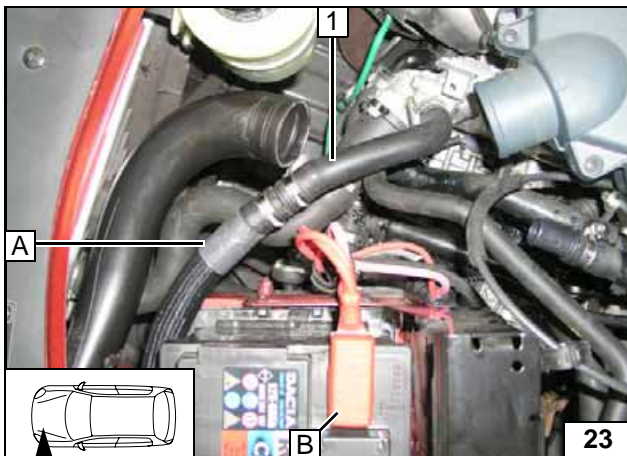


Push hose **A** and **B** through hose bracket **1** when installing. Then tighten screw connection.

2 Cable tie

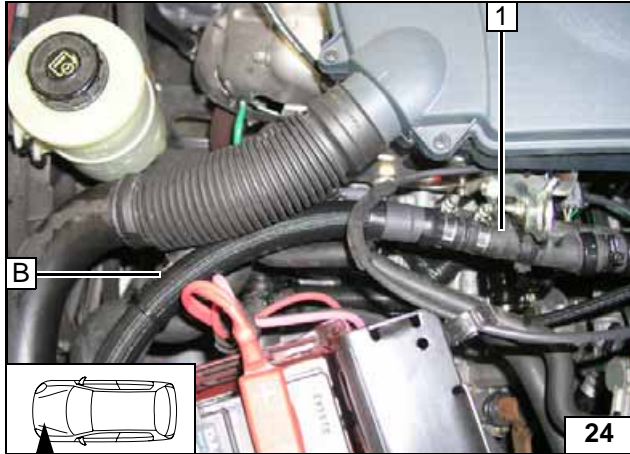


Routing in engine compartment



1 Hose on engine outlet turned

Connecting engine outlet



Ensure sufficient distance to neighboring components.

1 Hose on heat exchanger inlet



**Con-
necting
heat
exchanger
inlet**

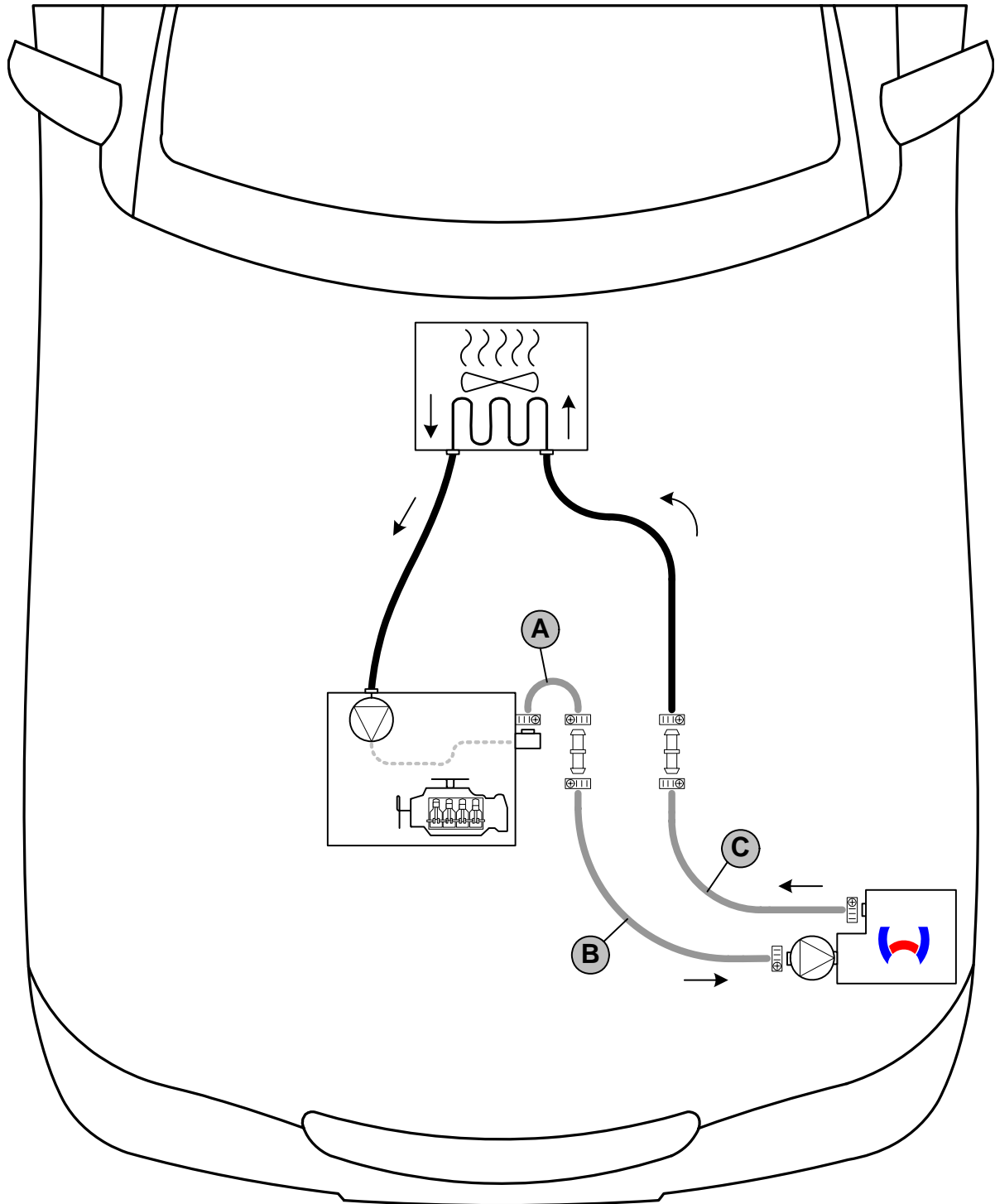


Coolant connection on 1.6 I 16 V

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 no other hose can be damaged! When installing the coolant hose, the heater unit must be filled with coolant.

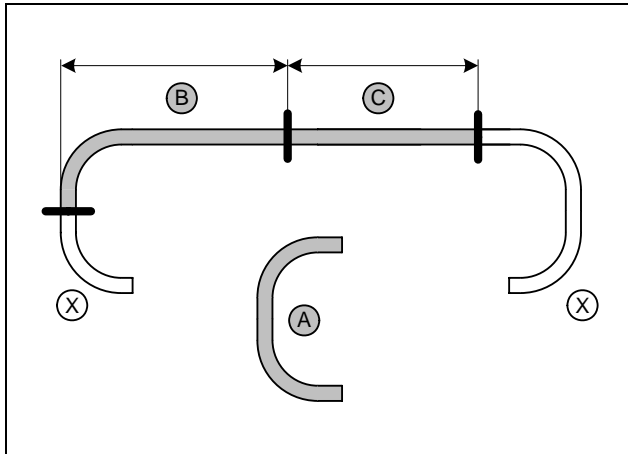
The connection should be "inline" based on the following diagram:



Coolant routing diagram

All connecting pipes  = Ø 18x20. All hose clamps without a specific designation  = 20-27 mm dia.

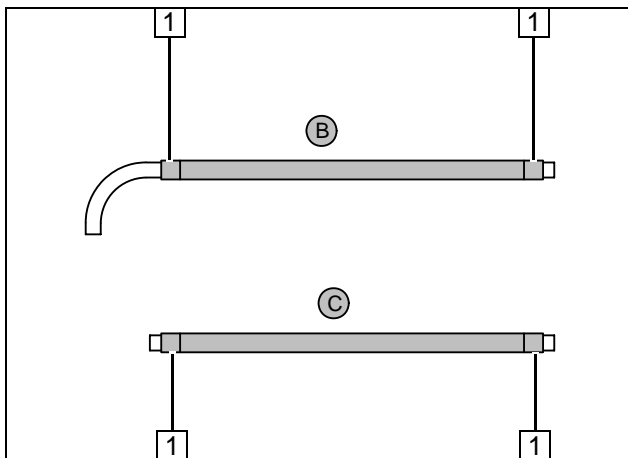




b = 780
c = 780

Discard section X

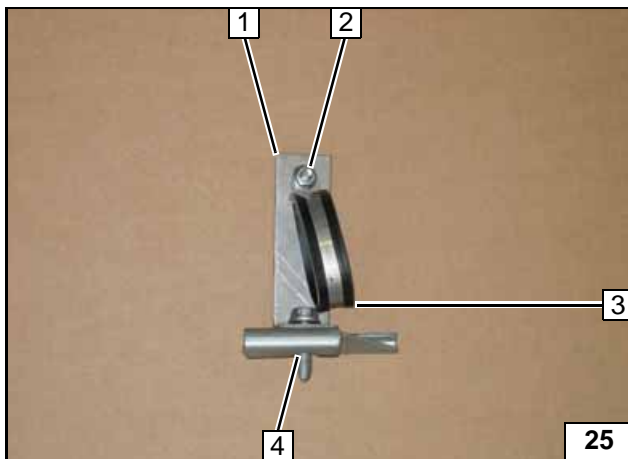
Cutting coolant hoses to length



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]

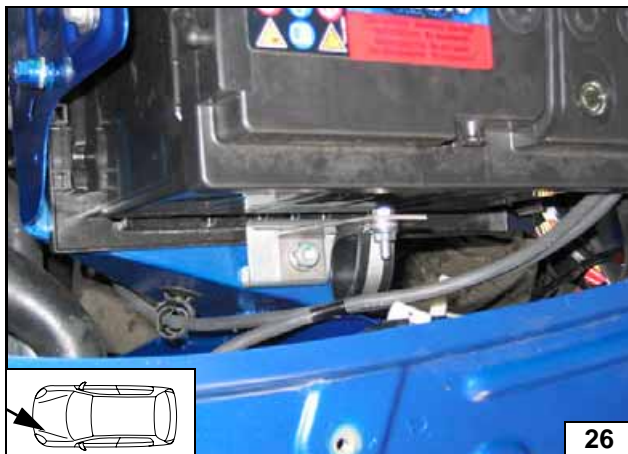
Preparing coolant hoses



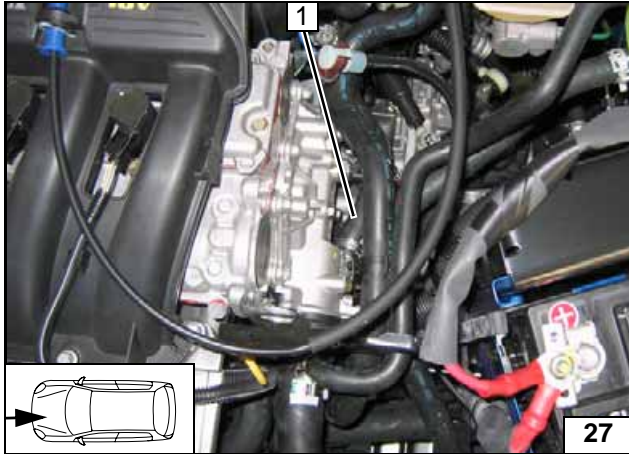
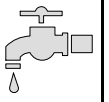
Remove battery mount **4**.

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

Preparing hose bracket



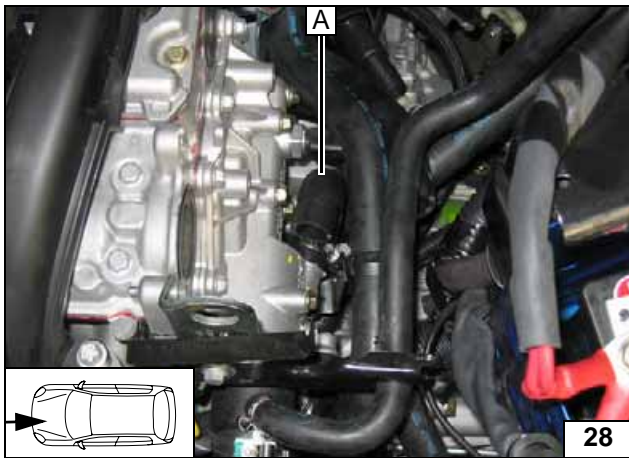
Installing hose bracket



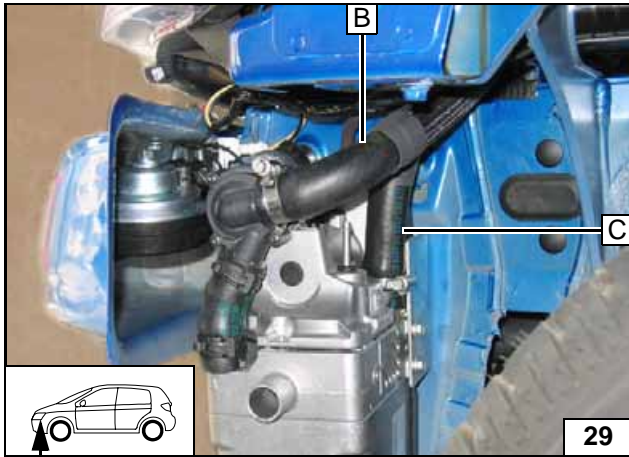
Pull hose of heat exchanger inlet **1** off engine outlet. Discard original vehicle clamp.



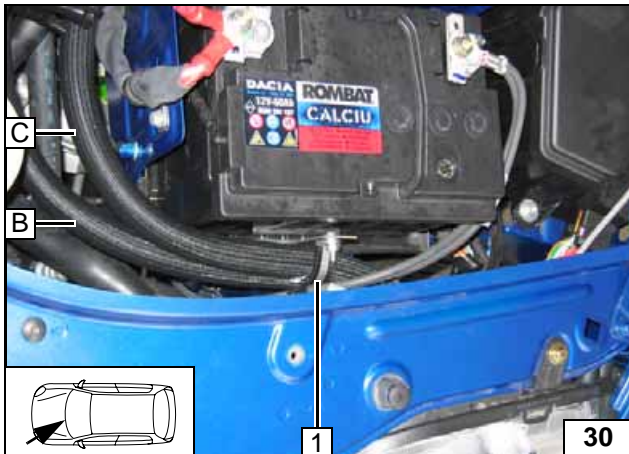
Cutting point



Connecting hose A on engine outlet



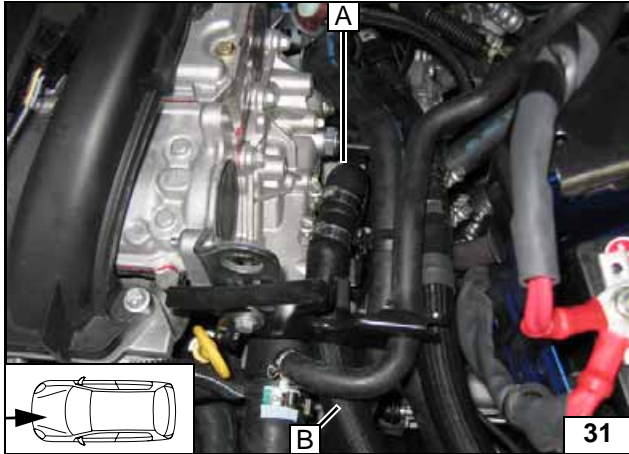
Connection to heater unit



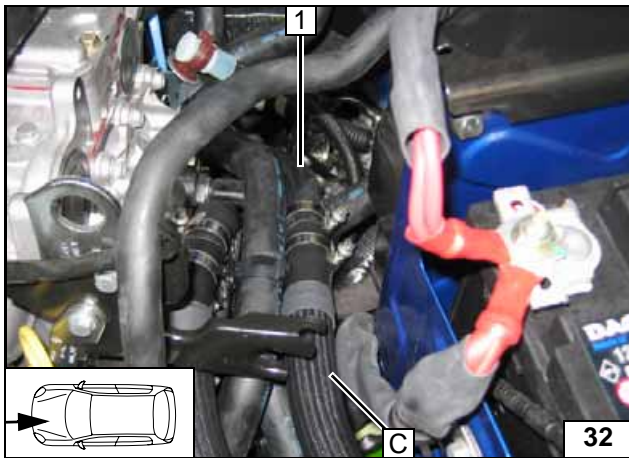
Push hose **B** and **C** through hose bracket **1** when installing. Then tighten screw connection.



Routing in engine compartment



Con-
nection to
hose A

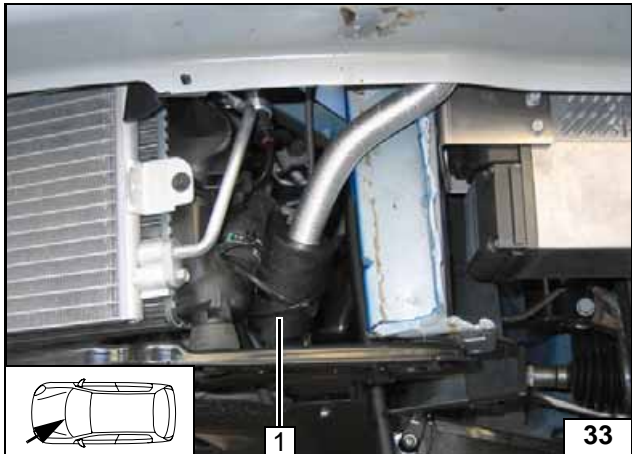


Ensure sufficient distance to neighboring components.



1 Hose on heat exchanger inlet

Con-
nection on
heat
exchanger
inlet



Combustion air

- 1 Cable tie [4x]



**Fastening
muffler**



Fuel

CAUTION!

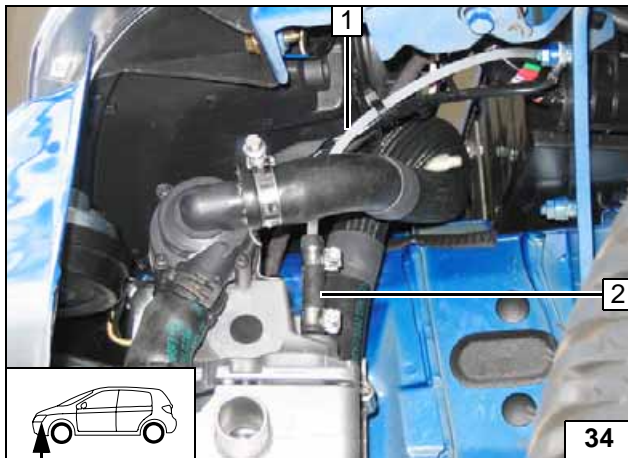
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.

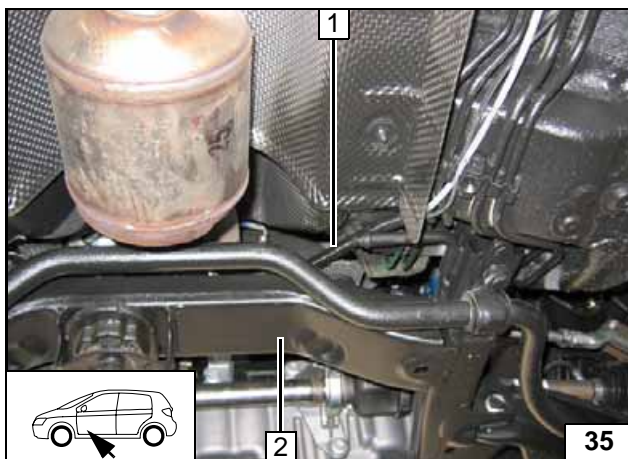
WARNING!

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



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

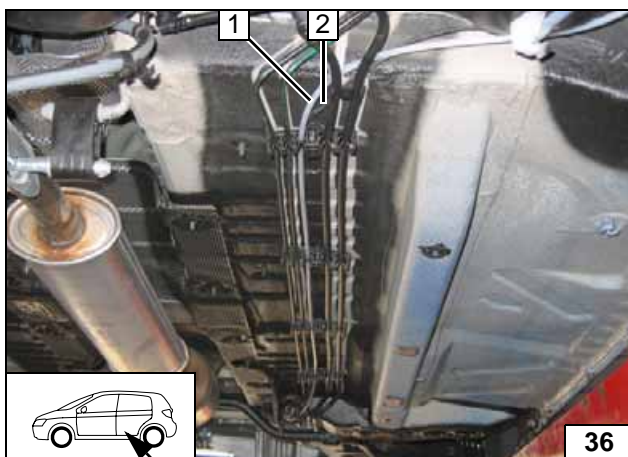
Con-
nection to
heater unit



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

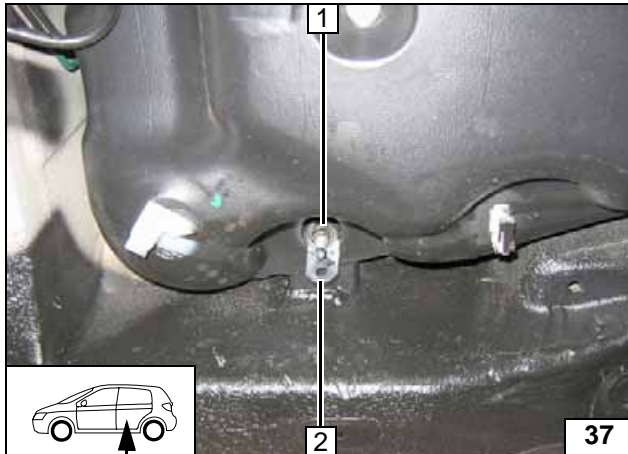


Installing
lines



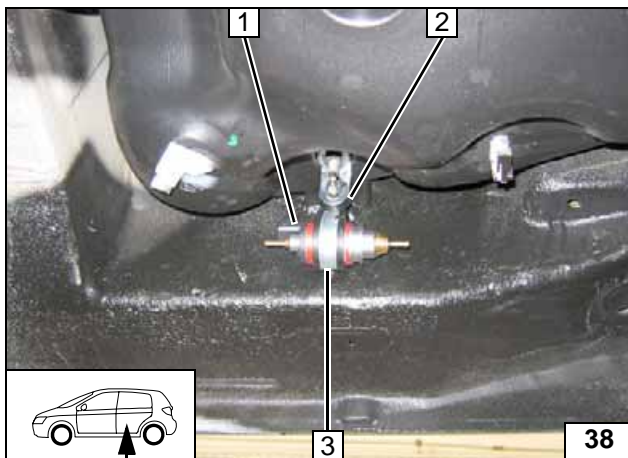
- 1 Fuel line from heater unit
- 2 Metering pump wiring harness

Routing on
underbody



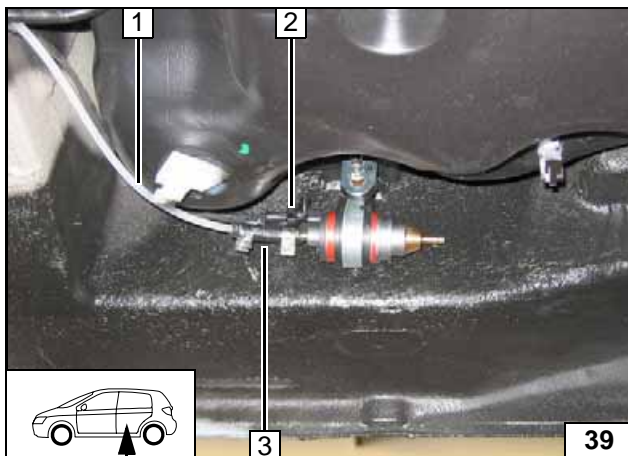
- 1 Original vehicle stud bolt with nut
- 2 Angle bracket

**Installing
metering
pump**



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

**Installing
metering
pump**

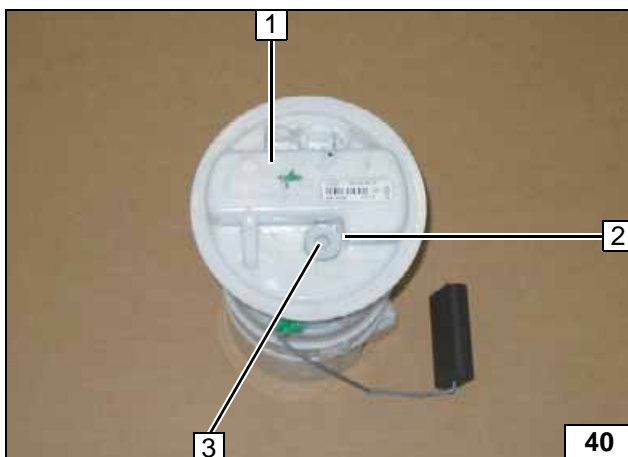


Check the position of the components; adjust if necessary. Check that they have free clearance.



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

**Con-
necting to
metering
pump**



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



- 1 Fuel-tank sending unit
- 2 Lay on 6 mm dia. large diameter washer
- 3 Copy hole pattern, 6 mm dia. hole

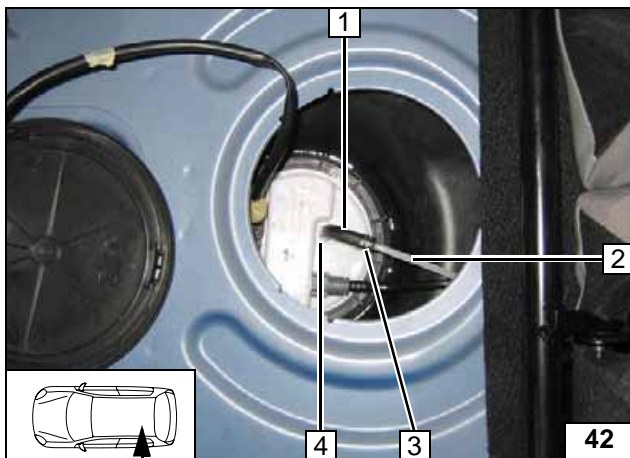
**Removing
fuel**



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



Installing fuel standpipe

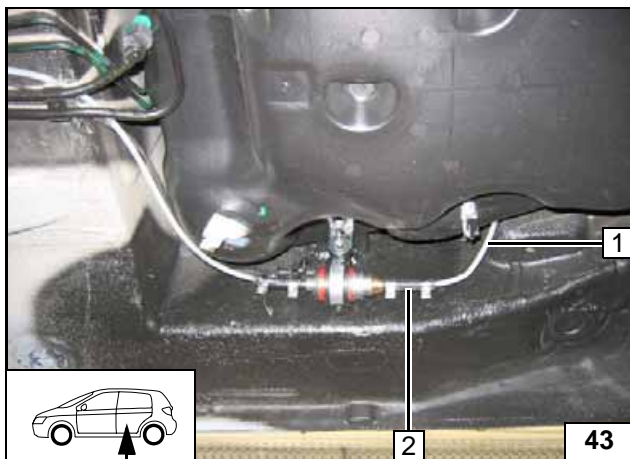


Install fuel-tank sending unit according to manufacturer's specifications.



Connecting fuel line

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

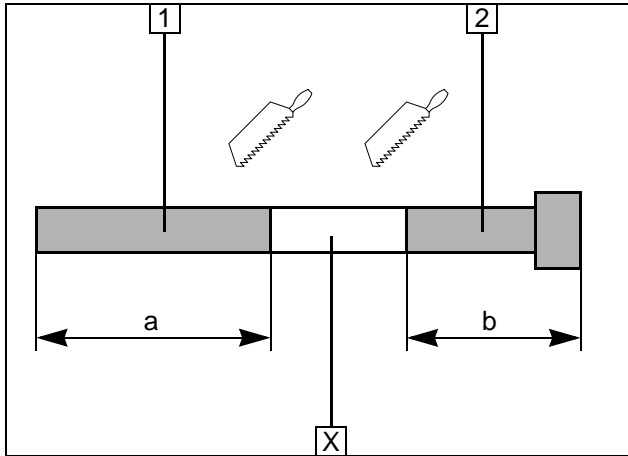
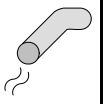


Check the position of the components; adjust if necessary. Check that they have free clearance.



Connecting to metering pump

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

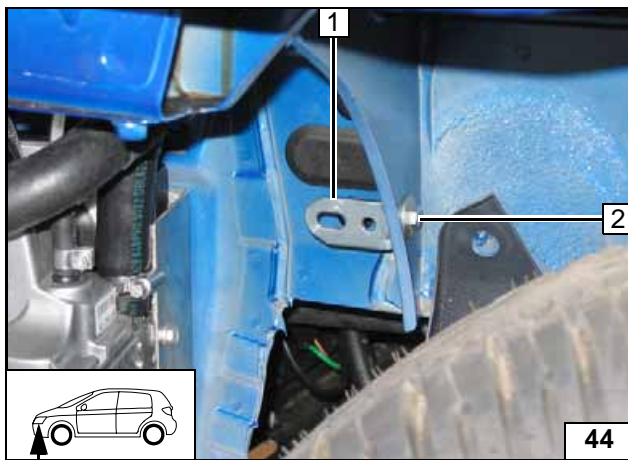


Exhaust gas

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

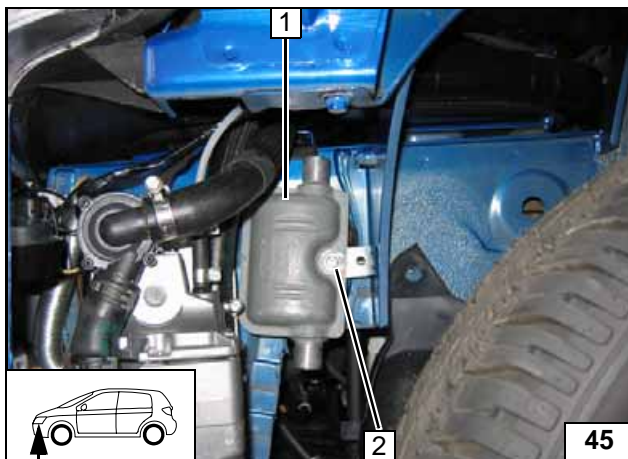
Discard section X

Preparing exhaust pipe



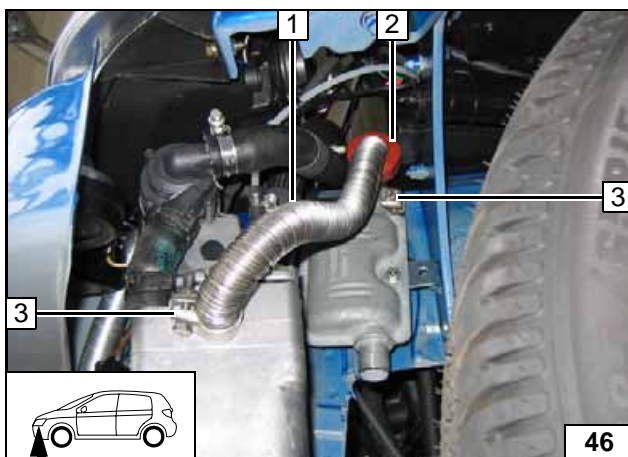
- 1 Angle bracket
- 2 M6x20 bolt, large diameter washer, original vehicle hole, flanged nut

Installing muffler



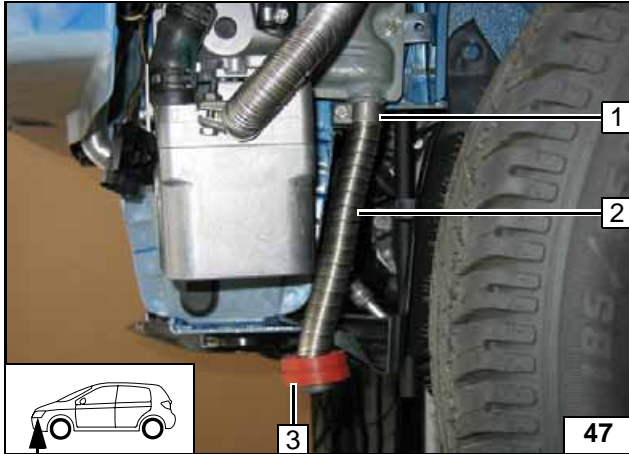
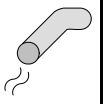
- 1 Muffler
- 2 M6x20 bolt, flanged nut

Installing muffler



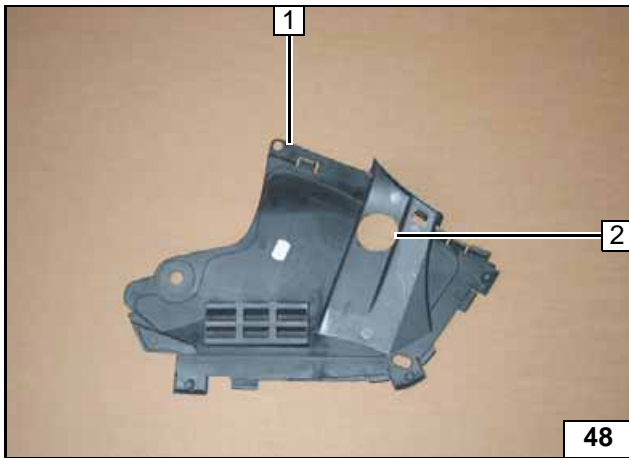
- 1 Exhaust pipe
- 2 Red (rt) rubber isolator
- 3 Hose clamp [2x]

Installing exhaust pipe



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

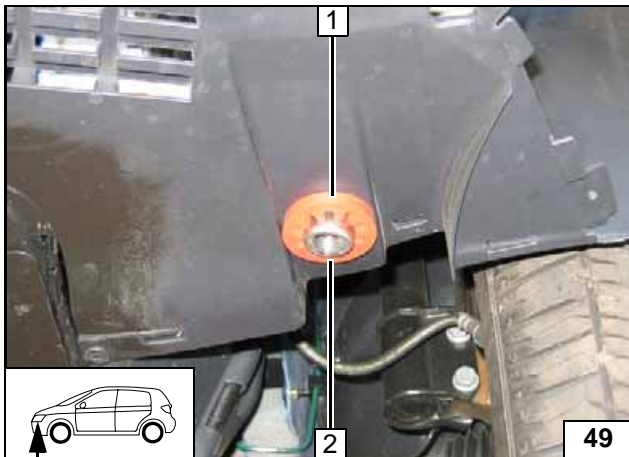
Installing end section



- 1 Trim piece
- 2 42 mm dia. hole



Drilling trim



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



Mounting rubber isolator

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.

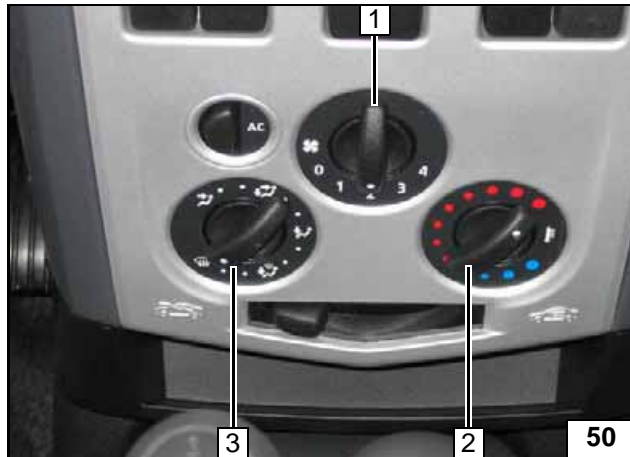
Heating time = driving time

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, this must be switched in accordance with the time of year. The heater unit will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter heat and in the position Summer .

Before parking the vehicle, make the following settings:

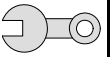


- 1 Set fan to level "1", or possibly "2"
- 2 Set temperature to "max."
- 3 Direct air outlet toward windshield

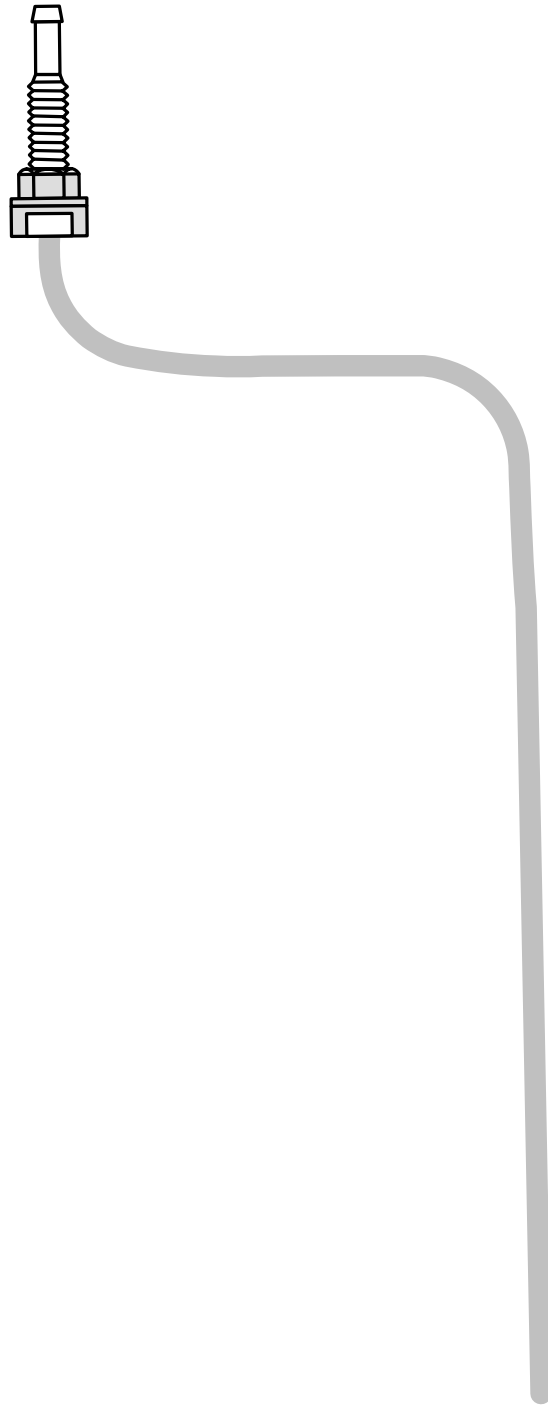
**Manual air
condition-
ing**

Webasto
Feel the drive

Webasto AG
Postfach 80 - 82132 Stockdorf
Hotline 01805 / 932278 - Hotfax 0395 / 5592-353
<http://www.webasto.de>



Template for Fuel Standpipe



100 mm



Scale 1:1

Compare the size of the printed version with dimension lines.
Permitted tolerance a maximum of 2%.

Set the printer settings to "no margin" or "minimize margins"
and 100% of the normal size.

100 mm

0

