

# Water Heater Unit



Feel the drive

**Thermo Top E Additional Heater**



00 0003

**Thermo Top C Additional Heater**



00 0002

**Thermo Top P Additional Heater**



00 0104

## Installation Instructions

### Peugeot 207 / 207 SW

Gasoline and Diesel

from Model Year 2006

For left-hand drive vehicles only



#### **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
Peugeot	W	207	e2 * 2001/116 * 0340

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
KFU	Gasoline	65	1360
NFU	Gasoline	80	1587
5FW	Gasoline	88	1598
5FX	Gasoline	110	1598
5FY	Gasoline	128	1598
9HV	Diesel	66	1560
9HX	Diesel	66	1560
9HY	Diesel	80	1560
9 Hz	Diesel	80	1560

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	Retail accessories with desired heater control	See price list

### Also required with manual air conditioning:

Quantity	Description	Order No.:
1	Installation Kit for Peugeot 207 / 207 SW Gasoline and Diesel with Manual Air Conditioning	1311147B

### Also required with automatic air-conditioning:

Quantity	Description	Order No.:
1	Installation Kit for Peugeot 207 / 207 SW Gasoline and Diesel with Automatic Air-Conditioning	1311169C

### 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

The installation instructions apply to the Peugeot 207 / 207 SW vehicles with a Gasoline and Diesel engine

- For the 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**



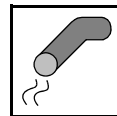
**Coolant connection**



**Fuel connection**



**Exhaust system**



**Combustion air**



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



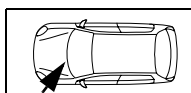
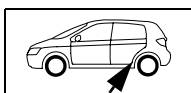
Specific risk of fire or explosion.



Reference to general installation instructions of Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.

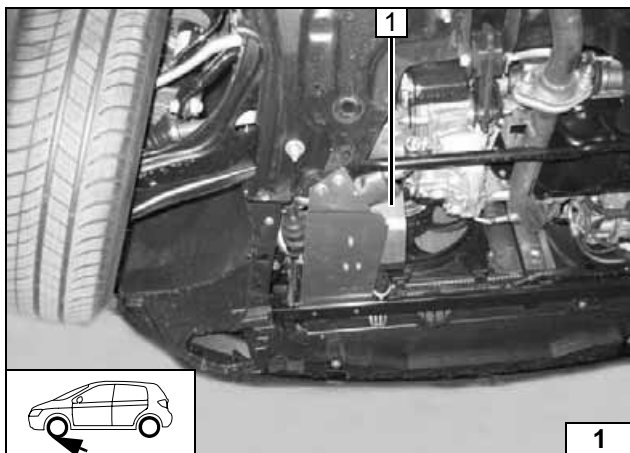


The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

**Preliminary Work**

**WARNING!**

- 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.
- Completely remove the battery.
- Remove the air filter together with the intake hose.
- Open fuel tank cap, ventilate tank
- Close the tank cap again.
- Remove the underride protection on the left
- Open the tank-fitting service lid
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the trim of the center tunnel in the left-hand footwell
- Remove the lower instrument panel trim on the left.
- Remove the A/C control panel (only with automatic air-conditioning)
- Please remove page 31 "Operating instructions for the end customer" and add this to the operating instructions.



**Heater unit installation location**

1 Heater unit

**Installation location**

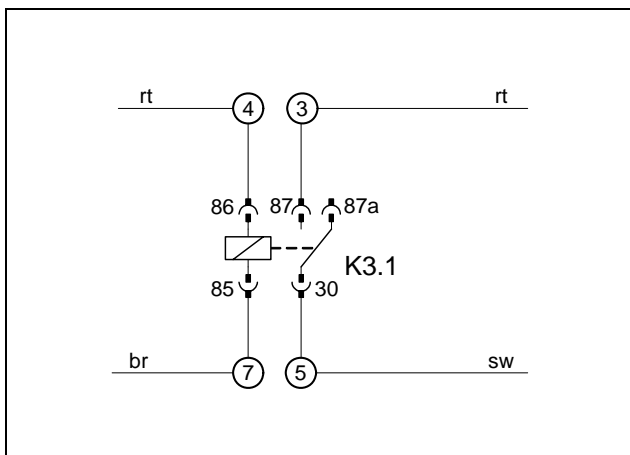
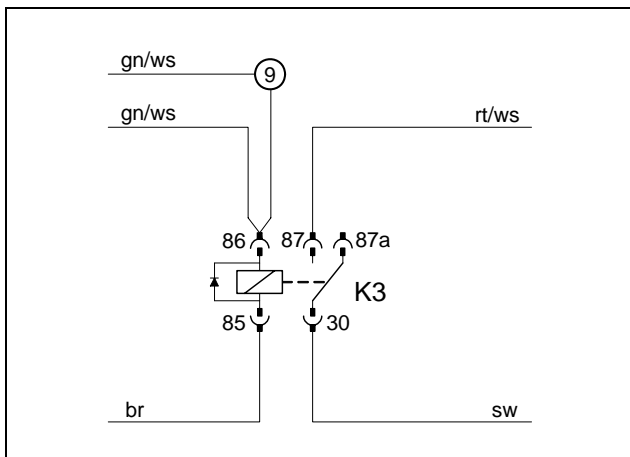
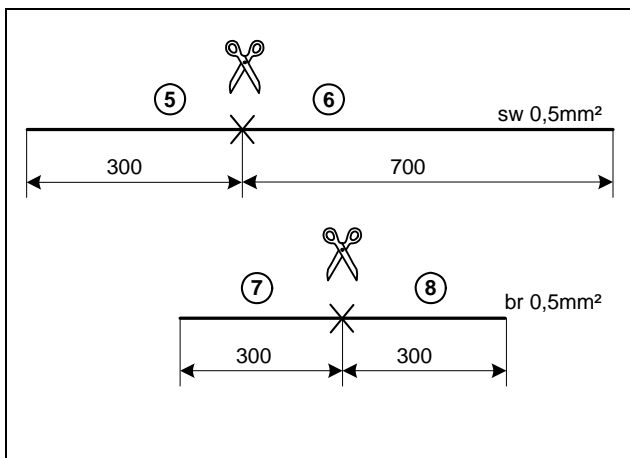
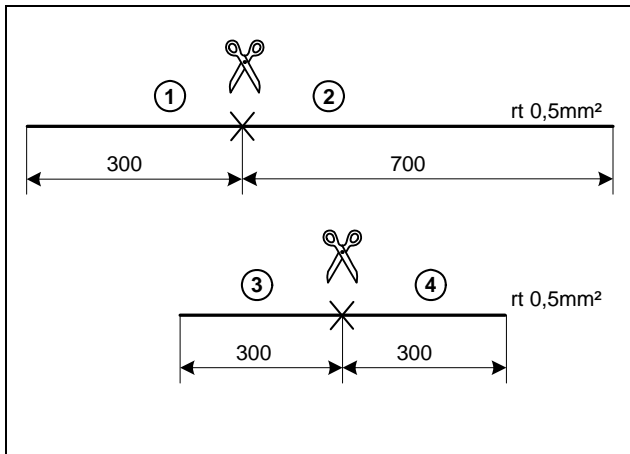


**Preparing electrical system**

**Only with automatic air-conditioning**

Wire sections 3, 4, 5 and 7 for connecting K3.1 relay.

Wire sections 1, 2, 6 and 8 for connecting IPCU.



Produce connections as shown in wiring diagram. Install wire section 9 in protective sleeving provided.



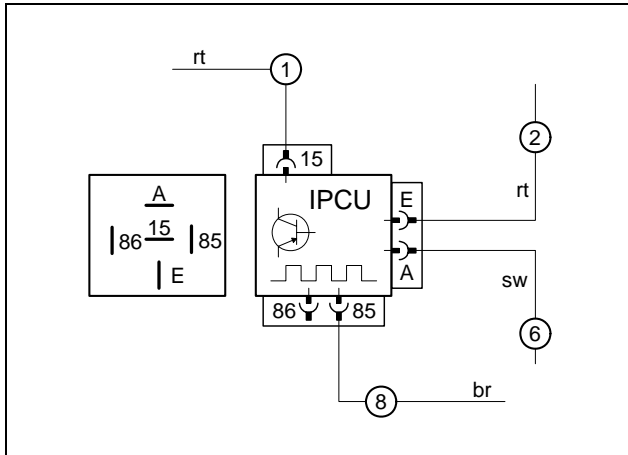
**Cutting wires to length**

**Cutting wires to length**

**Preassembling K3 relay**

**Preassembling K3.1 relay**





Produce connections as shown in wiring diagram.

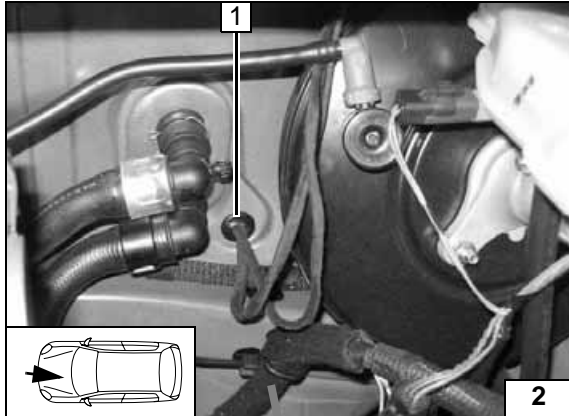
Preassembling IPCU



**Electrical Connections**

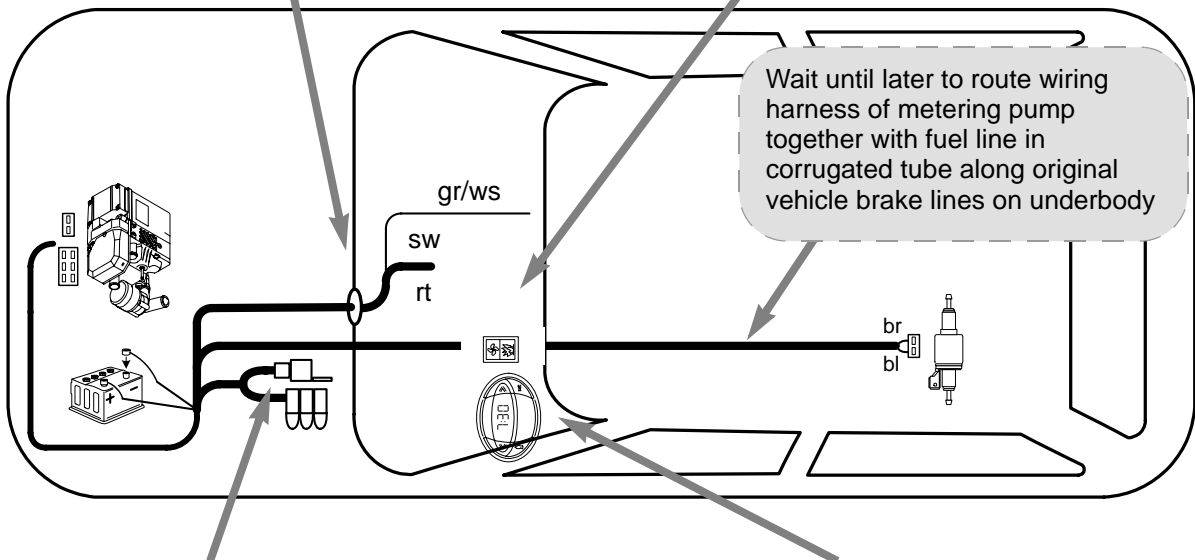
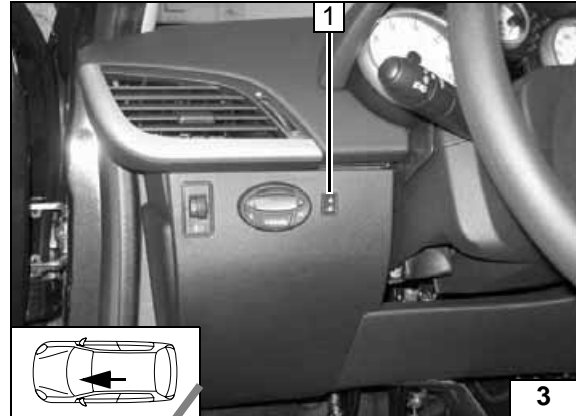
**Wiring harness pass through**

- 1 18 mm dia. hole, included protective rubber plug

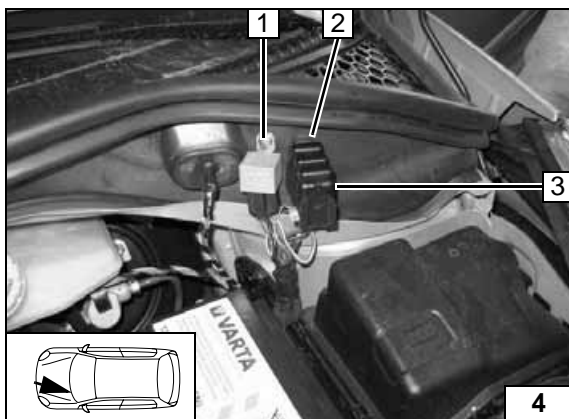


**Summer/winter switch option**

- 1 Summer/winter switch, drilled hole 12 mm dia.

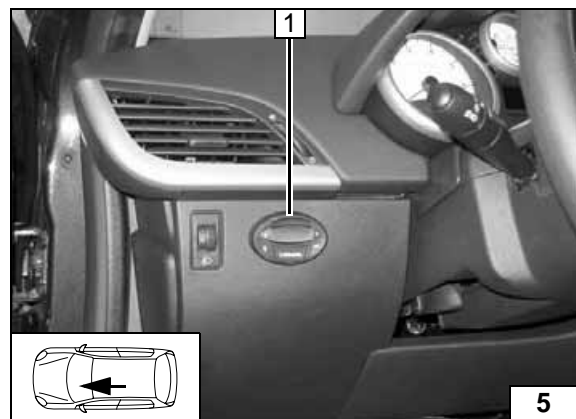


Wiring harness installation diagram



**Fuse holder, relay K3**

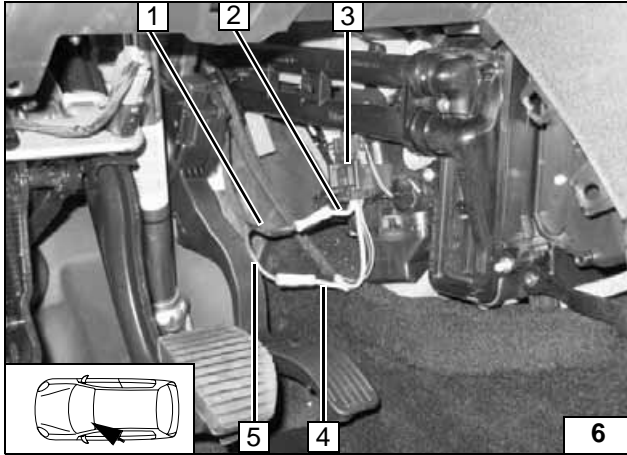
- 1 K3 relay, 5.5x13 bolt, 4.5 mm dia. hole
- 2 Retaining plate of fuse holder, 5.5x13 bolt, 4.5 mm dia. hole
- 3 Fuse holder



**Digital timer**

- 1 Digital timer





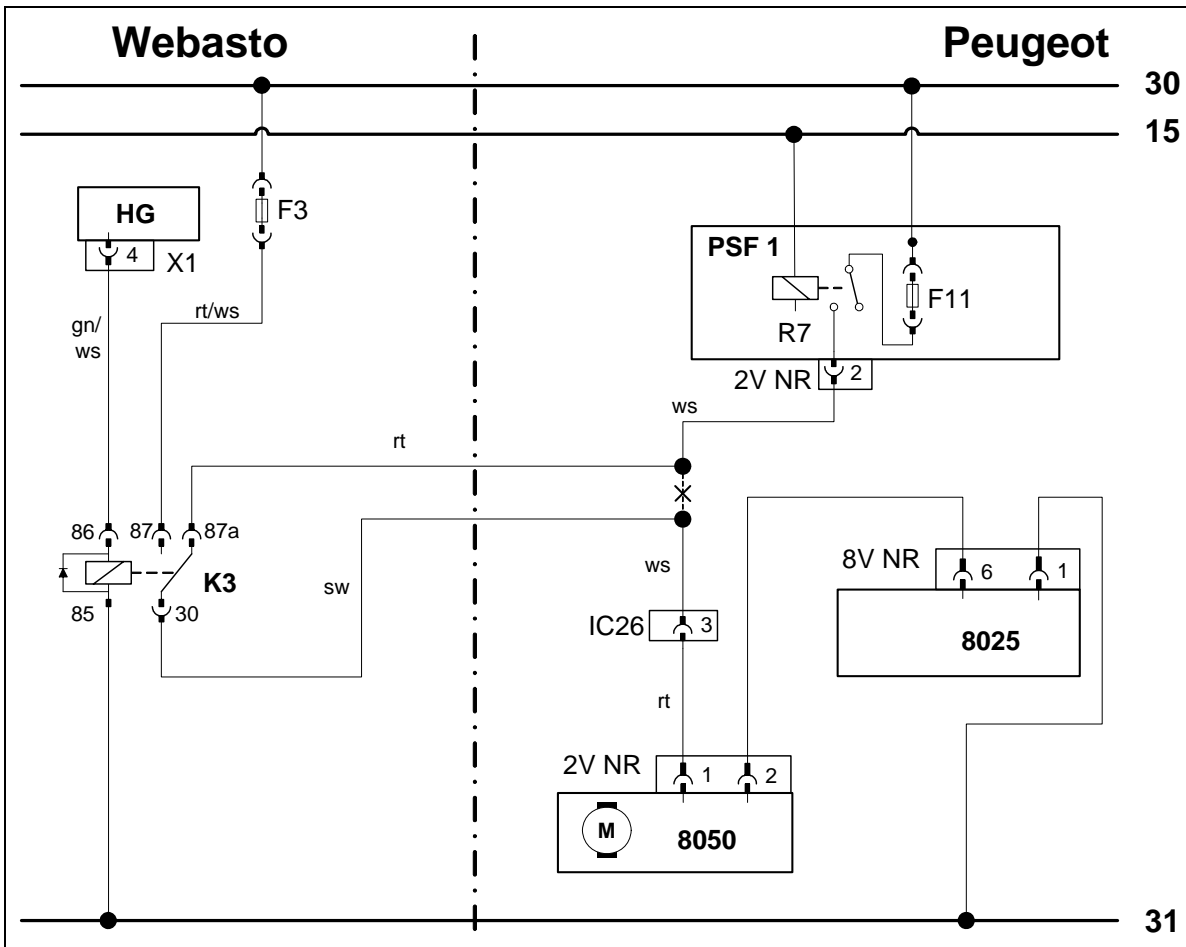
**Fan controller for manual air conditioning**

Connection to 6-pin connector IC 26 3 from wiring harness of fan motor.  
Make connections as shown in the wiring diagram with the connectors provided.

- 1 Black (sw) wire from K3/30
- 2 White (ws) wire to connector IC 26
- 4 White (ws) wire from main power supply PSF 1
- 5 Red (rt) wire to K3/87a



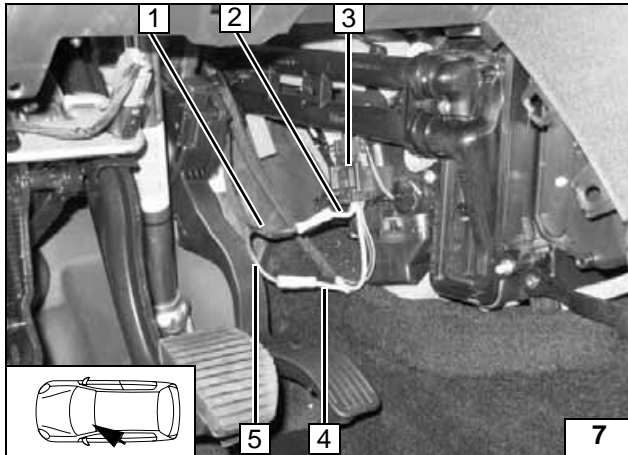
**Connect-  
ing fan mo-  
tor**



**Wiring dia-  
gram for  
manual air condition-  
ing**

Webasto components		Components of Peugeot 207 / 207 SW		Colors and symbols	
HG	Heater unit TT-C/E	8050	Fan motor	rt	red
X1	6-pin connector	8025	Air-conditioning control panel	ws	white
F3	25 A fuse	PSF1	Main power supply	sw	black
K3	Fan relay	IC 26	6-pin connector	br	brown
				gn	green
				X	Cutting point
				Wiring colors may vary.	

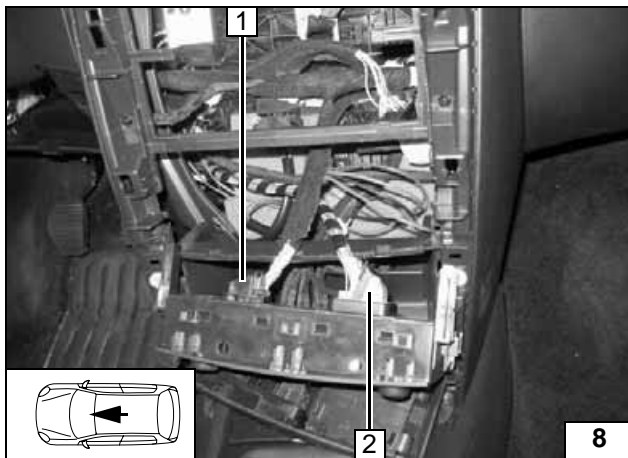
**Legend**



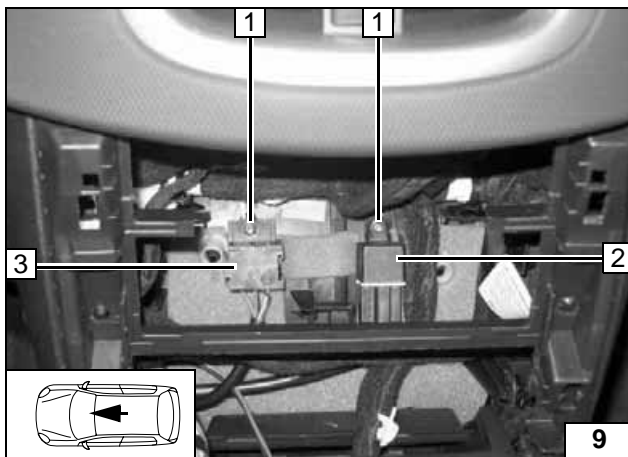
**Automatic air-conditioning fan controller**

Connection to 6-pin connector IC 26 3 from wiring harness of fan motor.  
Make connections as shown in wiring diagram with yellow (ge) connectors provided.

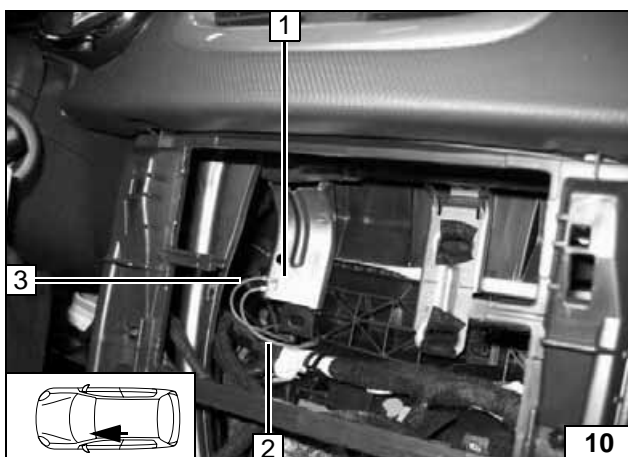
- 1 Black (sw) wire from K3/30
- 2 White (ws) wire to connector IC 26
- 4 White (ws) wire from main power supply PSF 1
- 5 Red (rt) wire to K3/87a



- 1 Connector 18V NR
- 2 Connector 40V BE



- 1 Original vehicle bolt [2x]
- 2 Relay K3.1
- 3 IPCU socket



Product connection with included cable lugs.

- 1 Original vehicle bolt
- 2 Brown (br) wire to K3.1/85
- 3 Brown (br) wire to IPCU/85



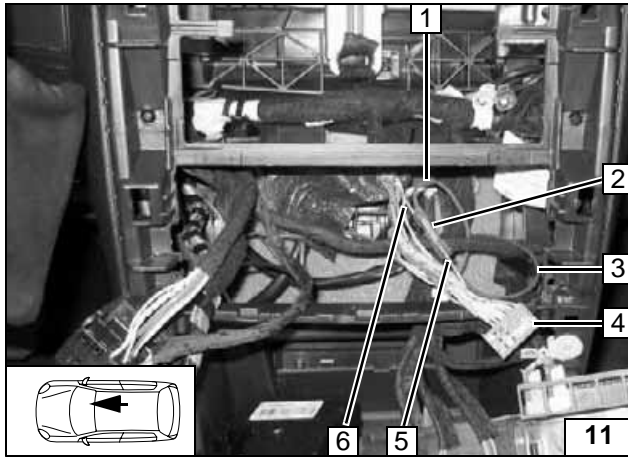
**Connect-  
ing fan mo-  
tor**

**Air-condi-  
tioning  
control  
panel**

**Installing  
K3.1 and  
IPCU**



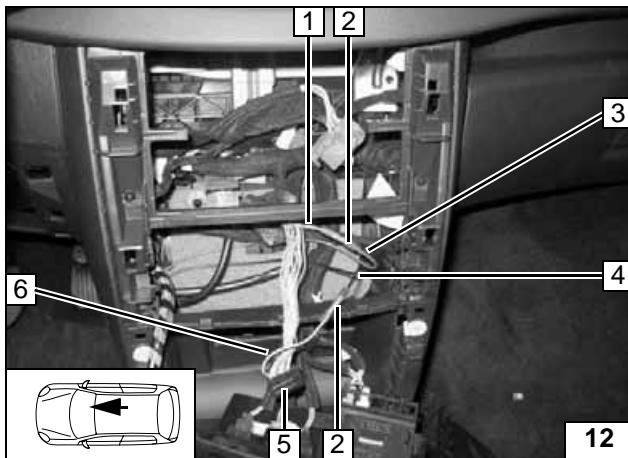
**Connect-  
ing ground  
for IPCU  
and K3.1**



Connection on 18-pin connector 18V NR 4 from A/C control panel.  
Product connection according to wiring diagram with included blue (bl) connector 2.

- 1 Red (rt) wire to K3.1/86
- 3 Red (rt) wire to IPCU, terminal 15
- 5 Gray (gr) wire to connector 18V NR
- 6 Gray (gr) wire from terminal 15

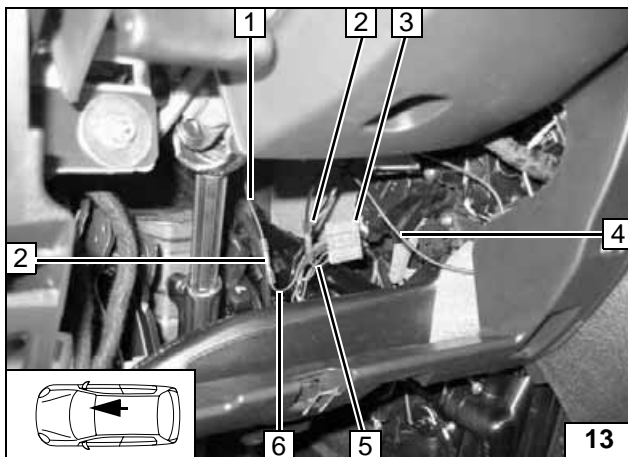
**Connect-  
ing termi-  
nal 15 for  
K3.1 and  
IPCU**



Connection on 18-pin connector 18V NR 5 from A/C control panel.  
Product connections according to wiring diagram with included red (rt) connectors 2 [2x].

- 1 Pink (ro) wire from BSI1/6
- 3 Red (rt) wire from K3.1/87
- 4 Black (sw) wire K3.1/30
- 6 Pink (ro) wire to connector 18V NR/18

**Connect-  
ing relay  
K3.1**

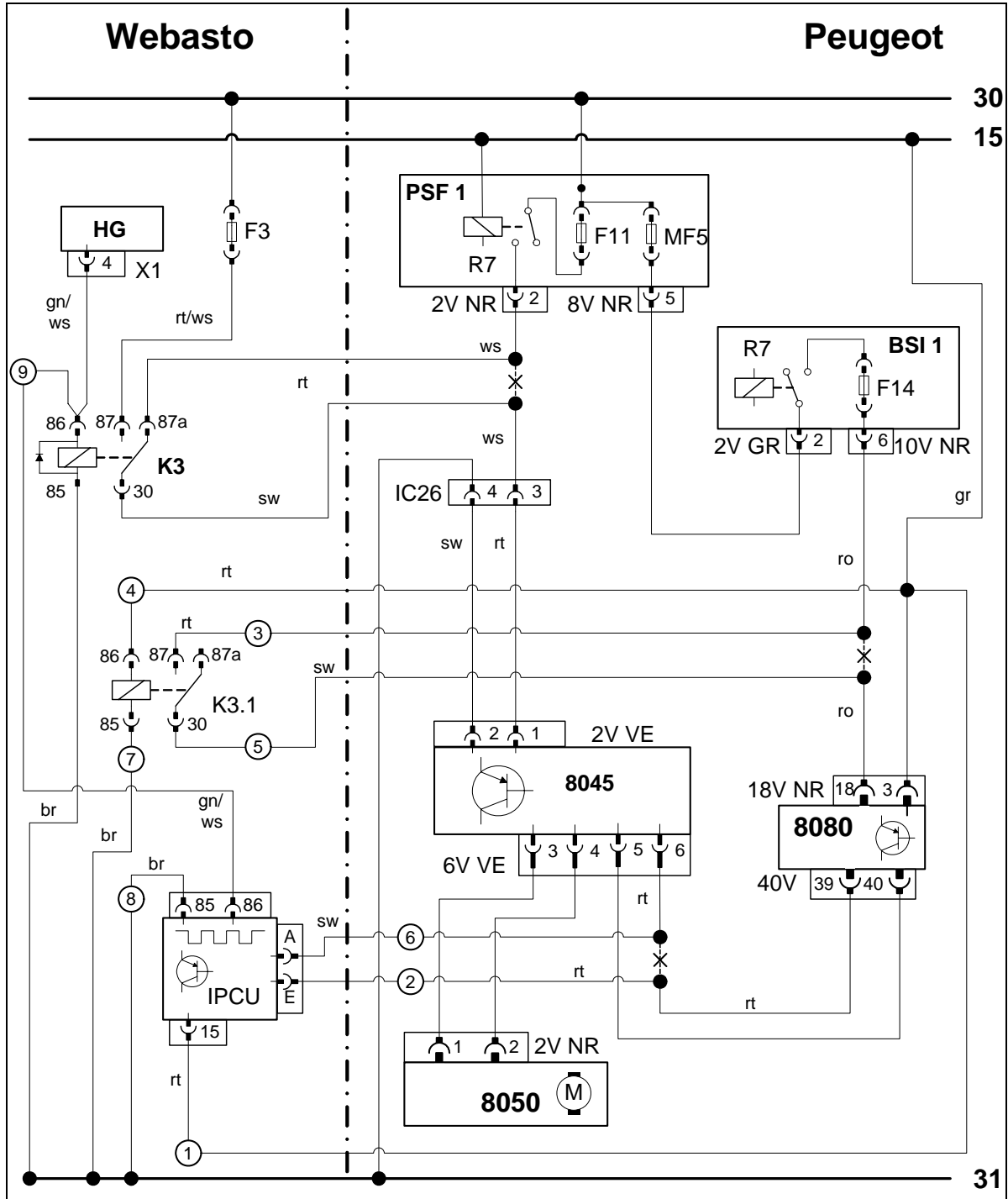


Connection on green (gn) 6-pin connector 6V VE 3 from fan controller.  
Product connections according to wiring diagram with included red (rt) connectors 2 [2x].

- 1 Red (rt) wire from IPCU/E
- 4 Black (sw) wire from IPCU/A
- 5 Red (rt) wire to connector 6V VE/6
- 6 Red (rt) wire to connector 40V BE/39

**Connect-  
ing fan  
controller**

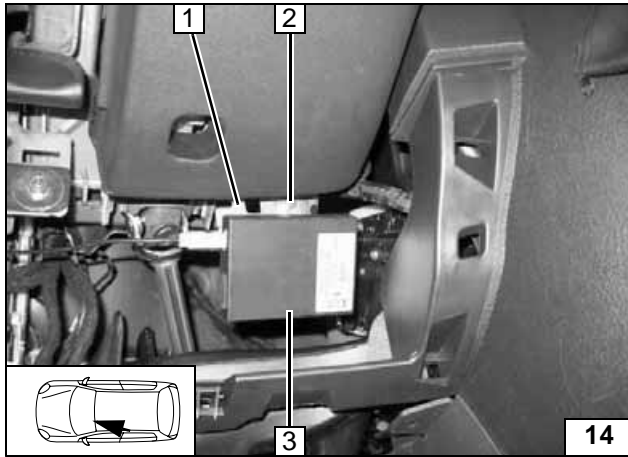




Automatic air-conditioning circuit diagram

Webasto components		Components of Peugeot 207 / 207 SW		Colors and symbols	
HG	Heater unit TT-C/E	8050	Fan motor	rt	red
X1	6-pin connector	PSF1	Main power supply	ws	white
F3	Fuse	8045	Fan controller	sw	black
K3	Fan relay	8080	Air-conditioning control panel	br	brown
K3.1	Additional relay	BSI1	Central electrical box for passenger compartment	gn	green
IPCU	Pulse width modulator	IC 26	6-pin connector	ro	pink
				gr	gray
				X	Cutting point
					Wiring colors may vary.

Legend

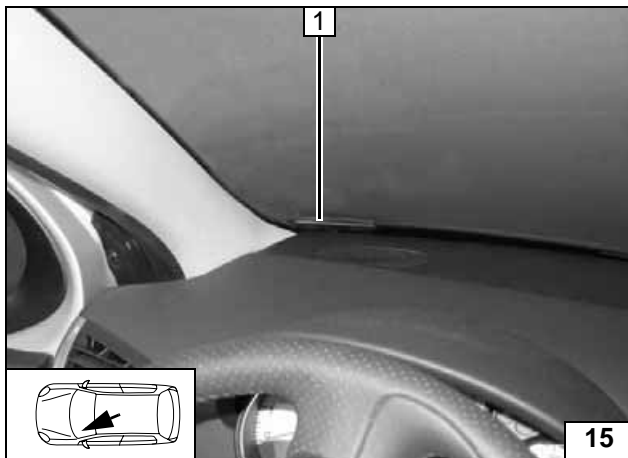


**Remote option (Telestart)**

- 1 Bracket, drill out hole to 7 mm
- 2 Original vehicle bolt
- 3 Receiver

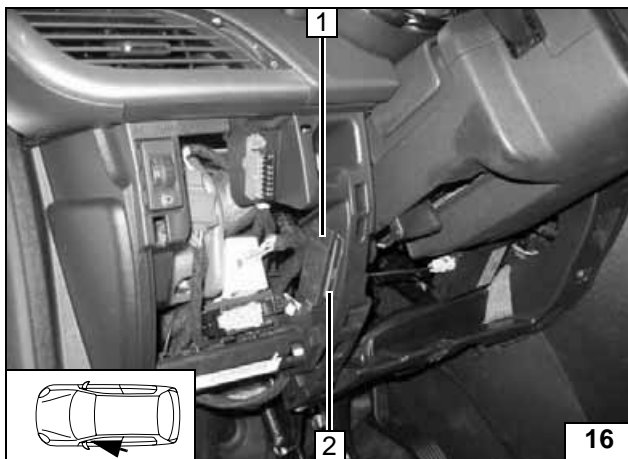


**Installing receiver**



- 1 Antenna

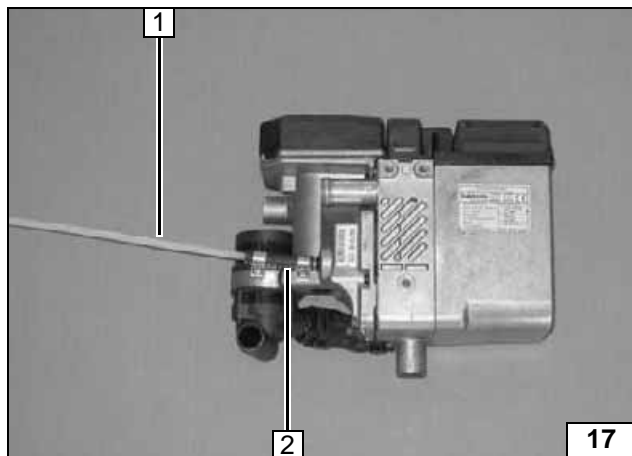
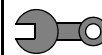
**Installing antenna**



**Temperature sensor for HTM100 only**

- 1 Temperature sensor
- 2 Installation strap

**Installing temperature sensor**

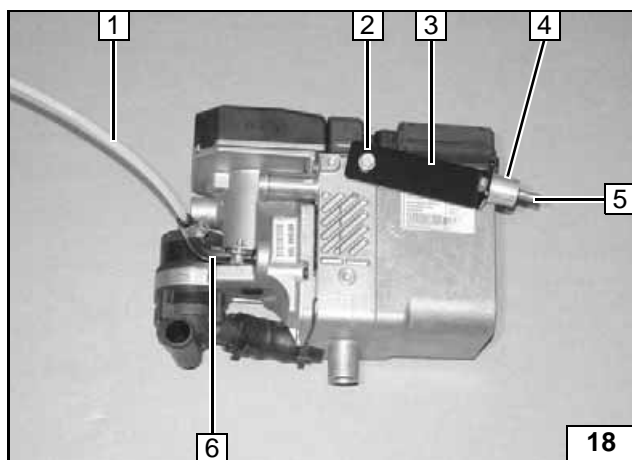


**Preparing heater unit**

**KFU/NFU**

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

**Installing fuel line**



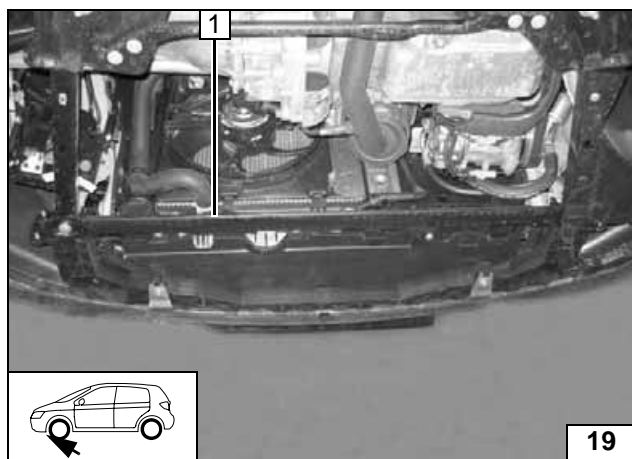
**5FW/X/Y**

Ejet screw bolt, tightening torque 10 Nm!

- 1 Fuel line
- 2 Ejet screw
- 3 Strut
- 4 20 mm spacer sleeve
- 5 M6x40 bolt, pin lock
- 6 90° molded hose, 10 mm dia. hose clamp [10x]



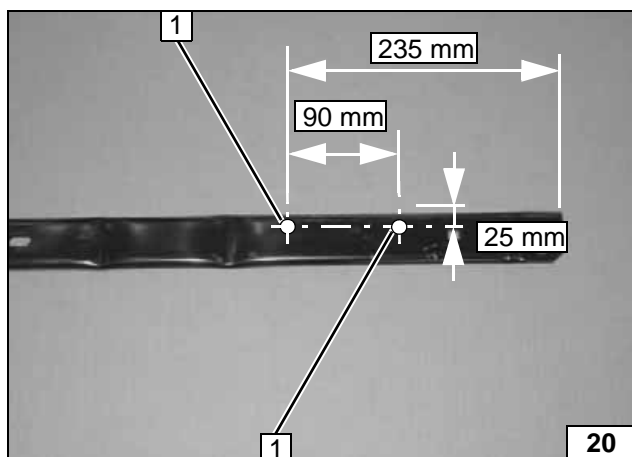
**Preparing heater unit**



**Preparing installation location**

- 1 Remove original vehicle strut

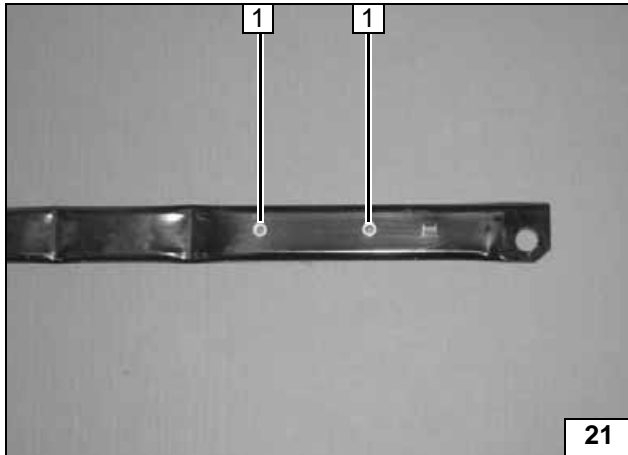
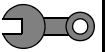
**Removing strut**



Copy hole pattern as shown and drill 9.1 mm dia. holes [2x] through strut at Pos. 1.

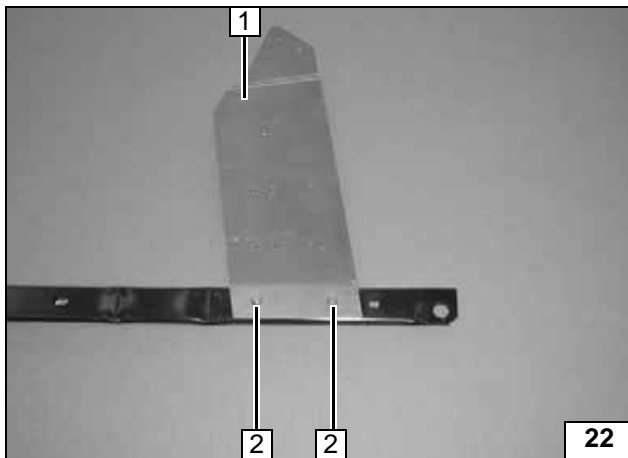


**Copying hole pattern**



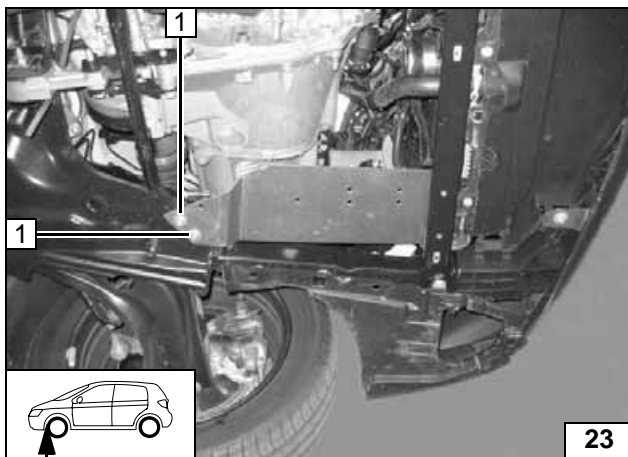
1 M6 rivet nut [2x]

Installing rivet nut



1 Loosely mount bracket  
2 M6x16 bolt [2x], spring lockwasher [2x]

Installing bracket

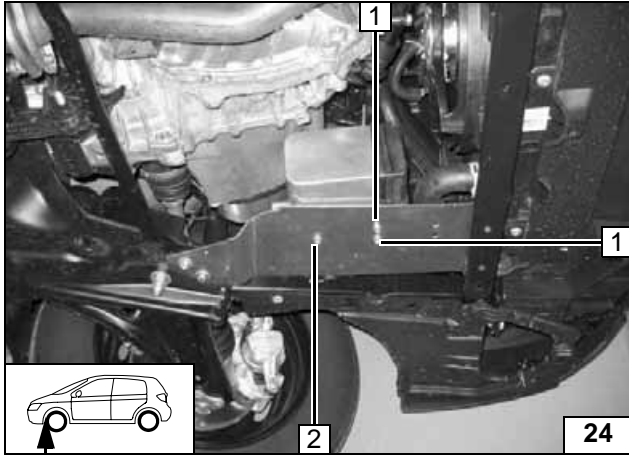
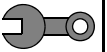


1 Original vehicle bolt [2x]

Installing bracket

Tighten loosely premounted M6x16 bolt with spring lockwasher [2x].





**Installing heater unit**

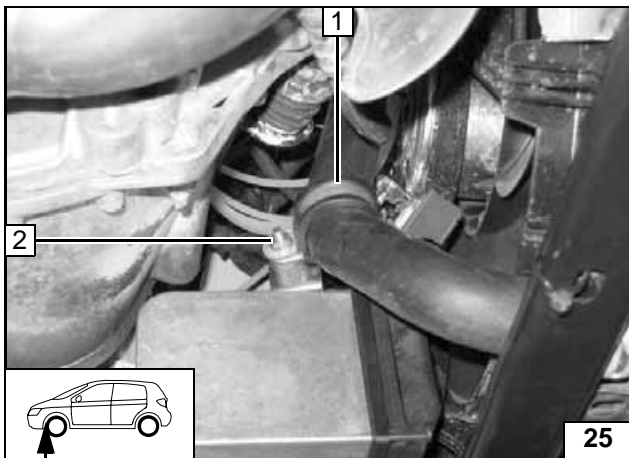
**Gasoline**

Tighten E-JOT screws to 10 Nm.  
Insert two washers between heater unit and bracket at Position 2.

- 1 E-jot screw [2x]
- 2 E-jot screw



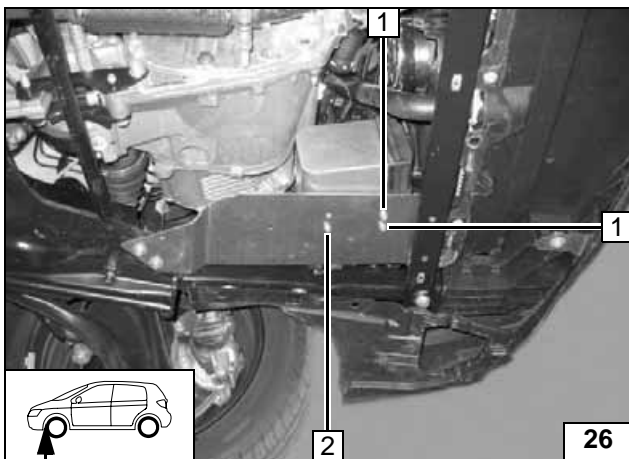
**Installing heater unit**



**5FW/X/Y**

- 1 52 mm dia. rubber-coated p-clamp
- 2 Flanged nut on prepared bolt

**Installing heater unit**



**Diesel**

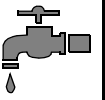
Tighten E-JOT screws to 10 Nm!  
Insert two washers between heater unit and bracket at Position 2.

- 1 E-jot screw [2x]
- 2 E-jot screw



**Installing heater unit**





**Coolant connection for gasoline**

**WARNING!**

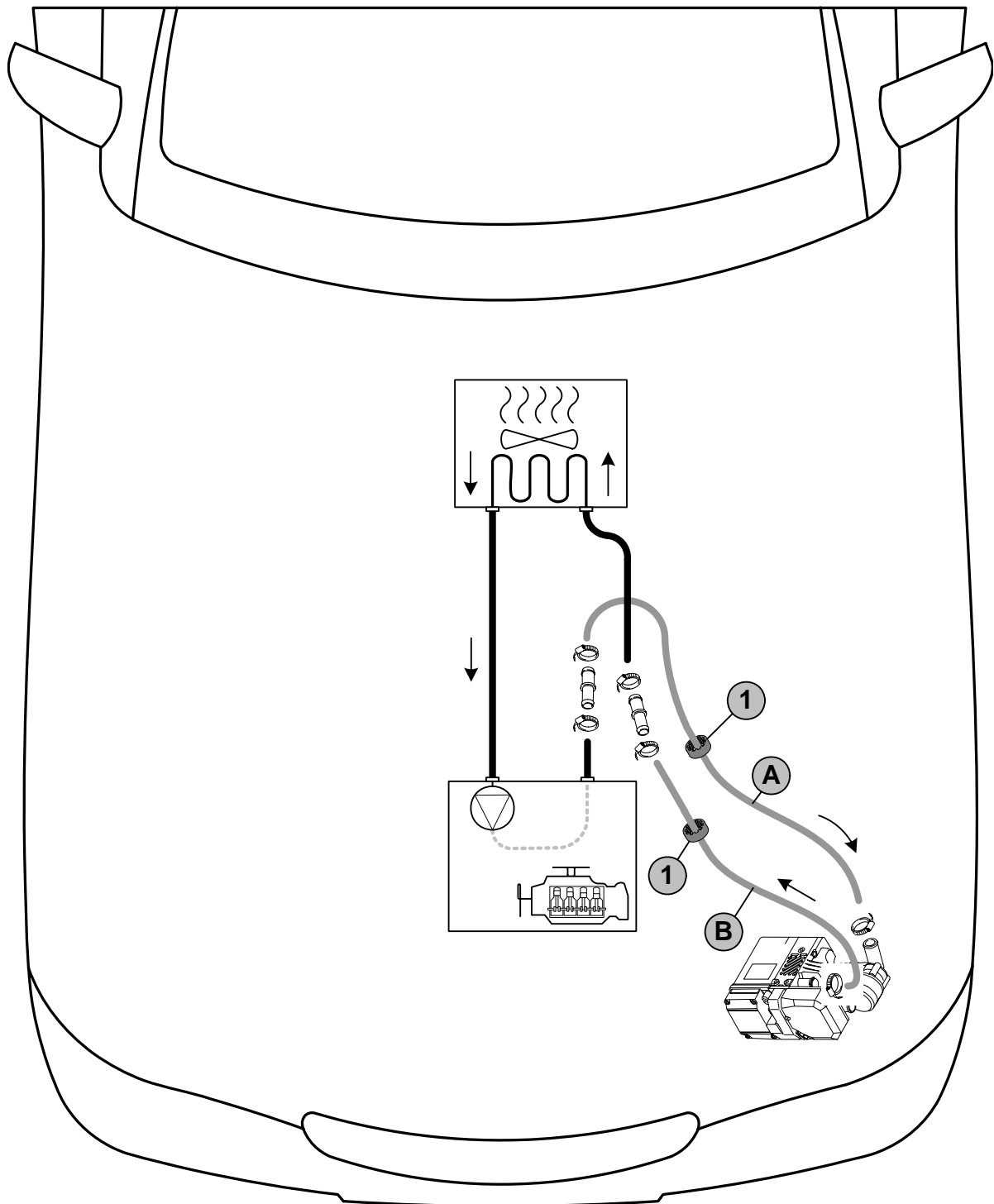
Tighten all hose clamps to 2.0 + 0.5 Nm.

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 hose clamps and spring band clamps so that no other hose can be damaged.

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

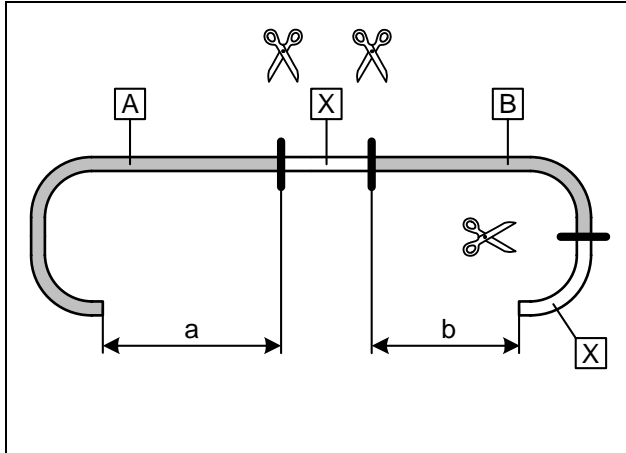
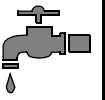


Coolant routing diagram

All hose clamps = 20-27 mm dia.! 1 = Black (sw) rubber isolator [2x].

Connecting pipe KFU/NFU = dia. 15x20. Connecting pipe 5FW/X/Y = dia. 17x20.



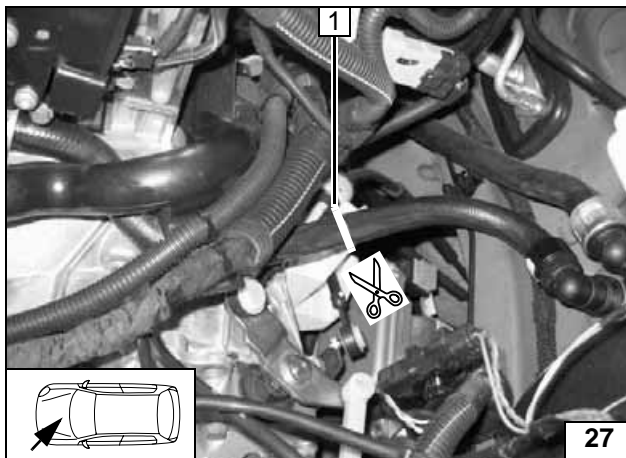


KFU/NFU

a = 640 mm  
b = 530 mm

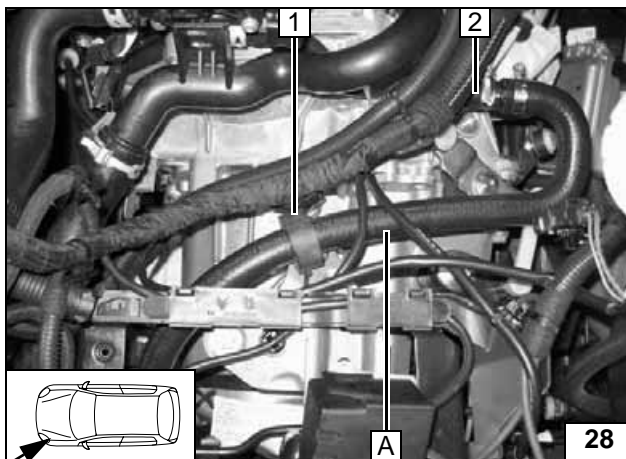
Discard section X

Cutting  
coolant  
hose to  
length



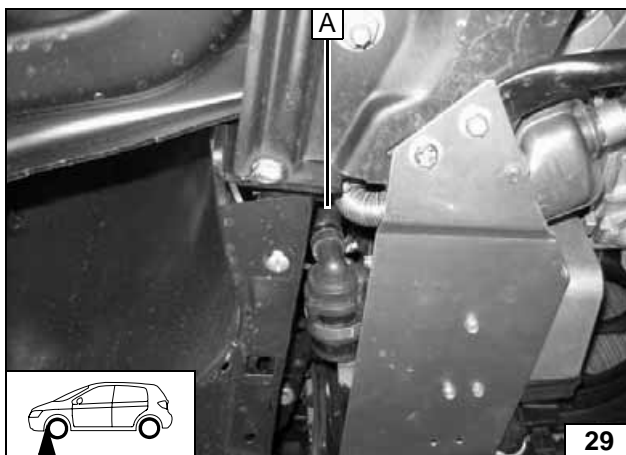
1 Cutting point

Cutting  
point



- 1 Black (sw) rubber profile fastened on transmission mount with cable tie
- 2 Engine outlet hose section

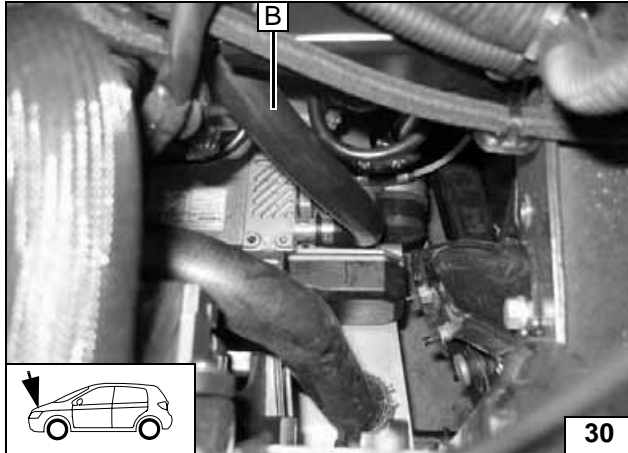
Conne-  
ction to en-  
gine outlet



Install coolant hose A with straight end on heater unit inlet.



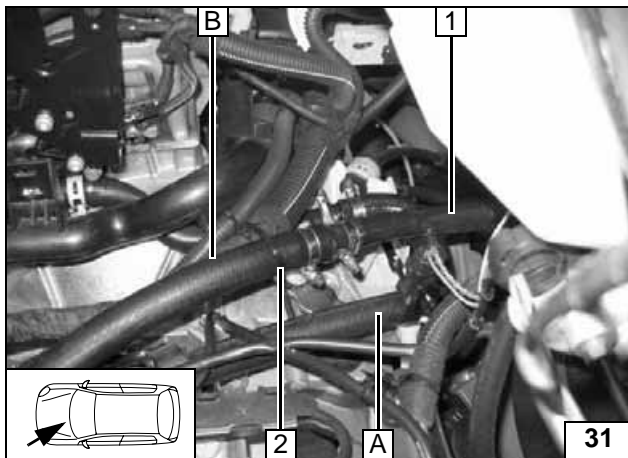
Conne-  
ction to  
heater unit



Install coolant hose **B** with 90° elbow on heater unit outlet.



**Conne-  
ction to  
heater unit**

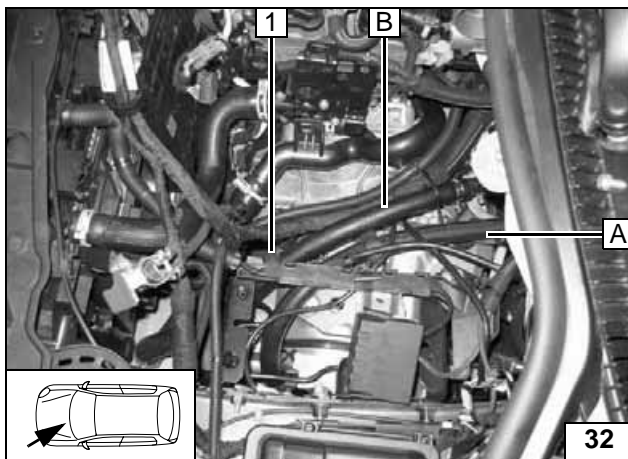


Before connecting, fill the coolant hoses with coolant.

- 1 Hose section of heat exchanger inlet
- 2 Cable tie

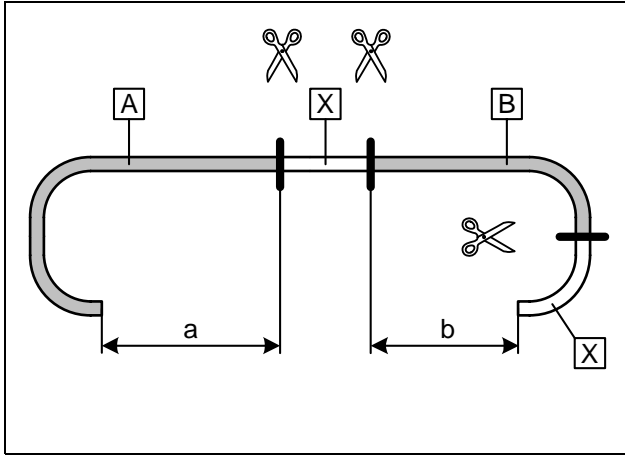


**Conne-  
ction to heat  
exchanger  
inlet**



- 1 Black (sw) rubber profile

**Routing in  
engine  
compartment**

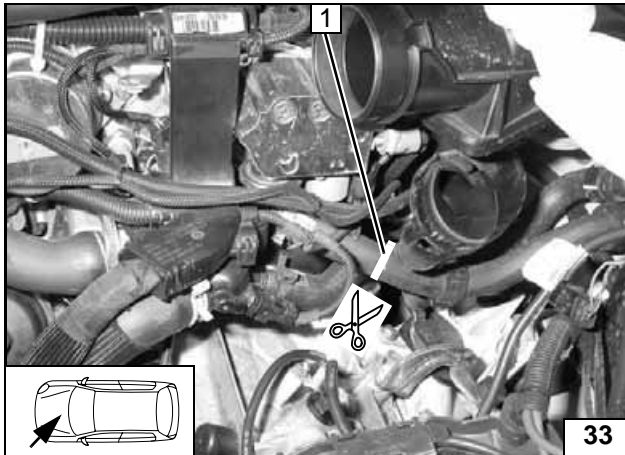


5FW/X/Y

a = 640 mm  
b = 530 mm

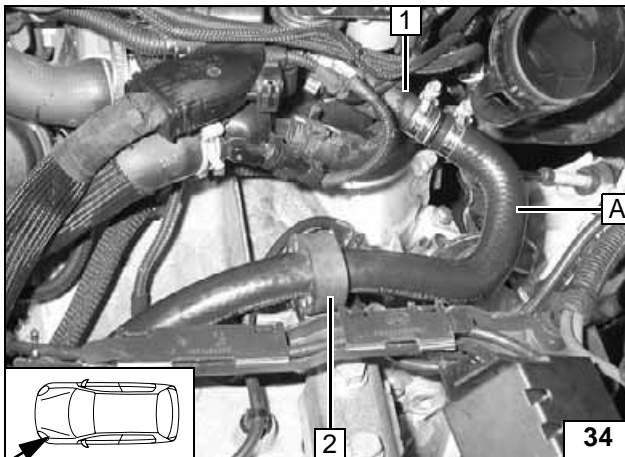
Discard section X

Cutting coolant hose to length



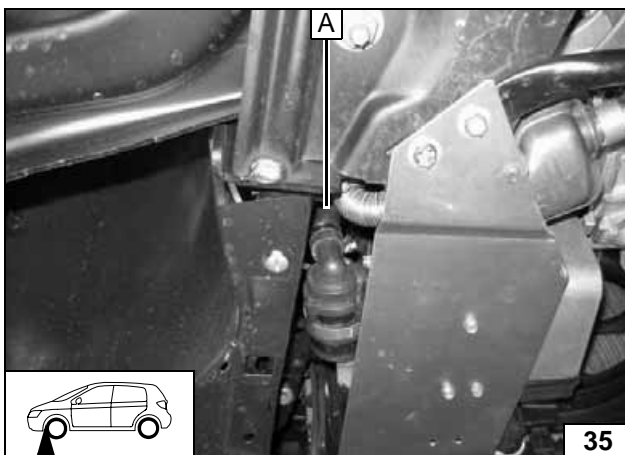
1 Cutting point

Cutting point



- 1 Engine-outlet hose section
- 2 Black (sw) rubber profile fastened on transmission mount with cable tie

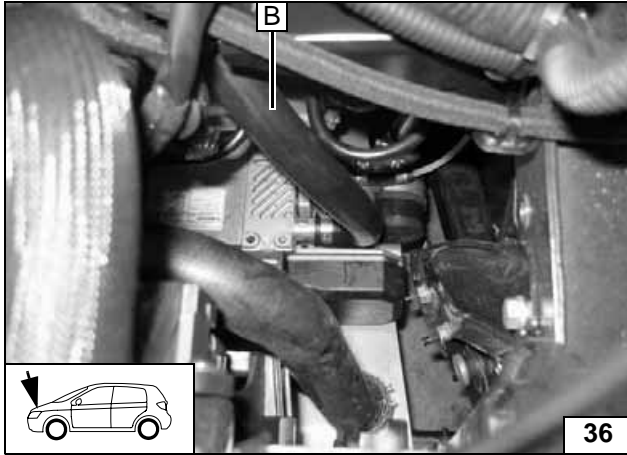
Conne-  
ction to en-  
gine outlet



Install coolant hose A with straight end on heater unit inlet.



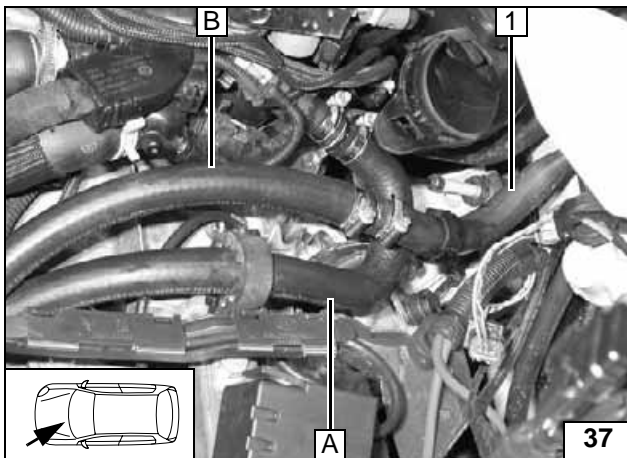
Conne-  
ction to  
heater unit



Install coolant hose **B** with 90° elbow on heater unit outlet.



Conne-  
ction to  
heater unit

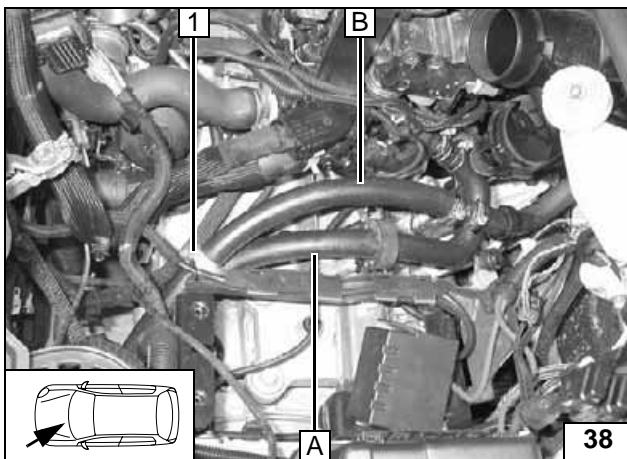


Before connecting, fill the coolant hoses with coolant.

1 Hose section of heat exchanger inlet

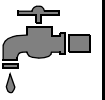


Conne-  
ction to heat  
exchanger  
inlet



1 Black (sw) rubber profile

Routing in  
engine  
compart-  
ment



**Coolant connection for diesel engine**

**WARNING!**

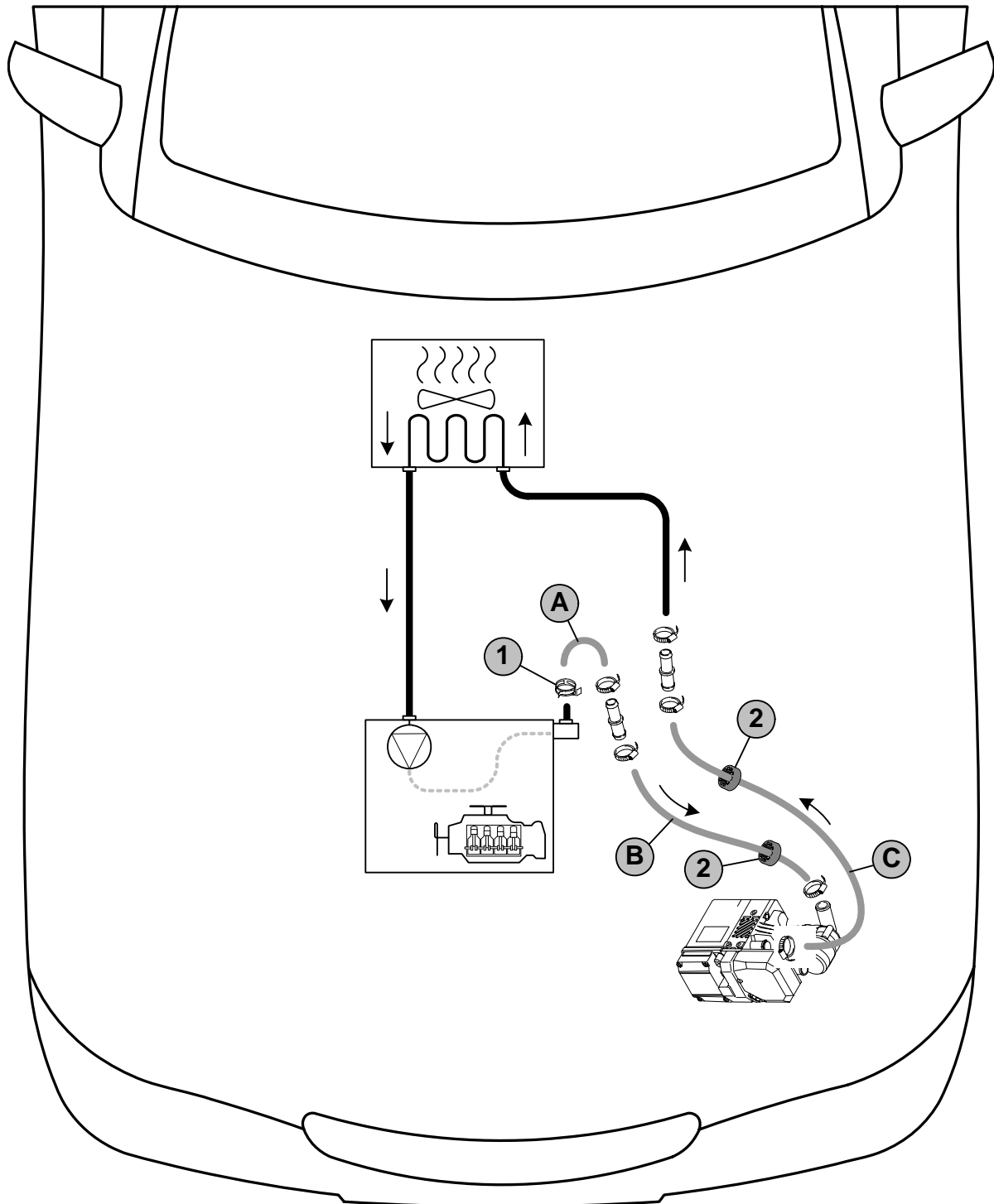
Tighten all hose clamps to 2.0 + 0.5 Nm.

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 hose clamps and spring band clamps so that no other hose can be damaged.

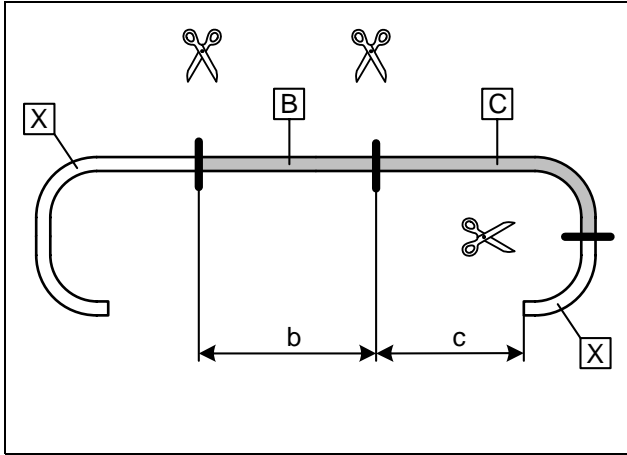
The connection should be "inline" based on the following diagram:



Coolant routing diagram

All hose clamps = 20-27 mm dia.! **1** = Original vehicle clamp  
 All connecting pipes = 18x20 dia.! **2** = Black (sw) rubber isolator [2x].

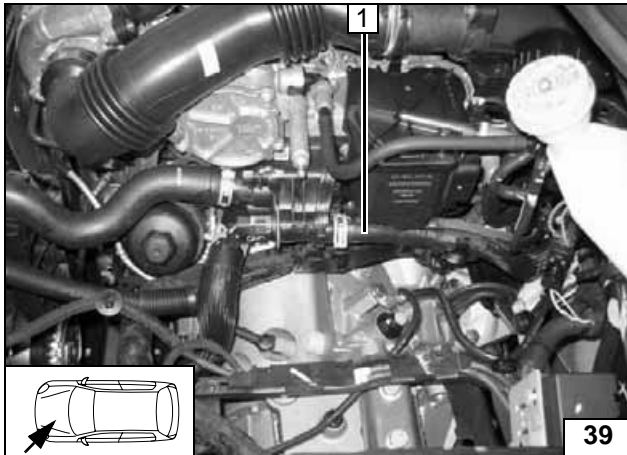




$b = 480 \text{ mm}$   
 $c = 390 \text{ mm}$

Discard section X

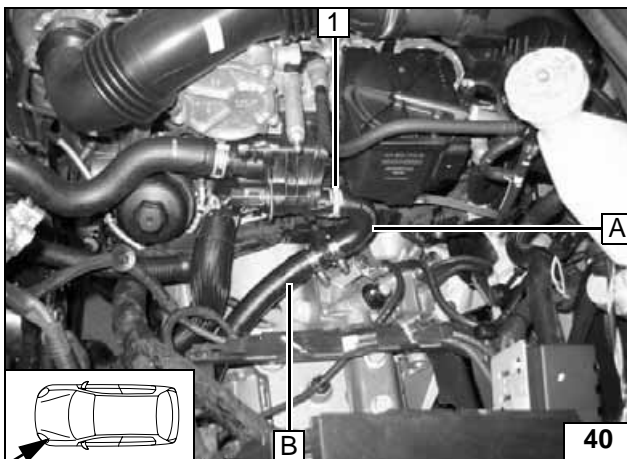
Cutting coolant hose to length



Disconnect coolant hose 1 from engine outlet. Hose clamp will be reused!



Cutting point

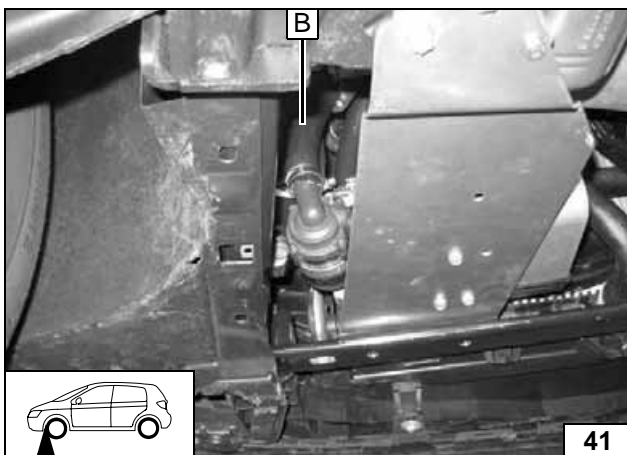


Before connecting, fill the coolant hoses with coolant.

1 Original vehicle hose clamp



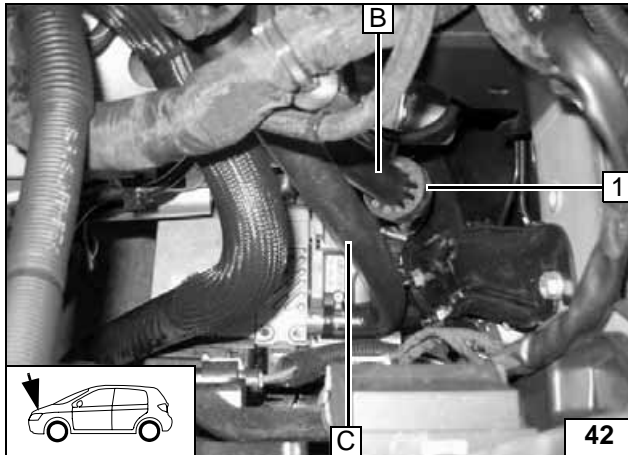
Connection to engine outlet



Install coolant hose B with straight end on heater unit inlet.



Connection to heater unit

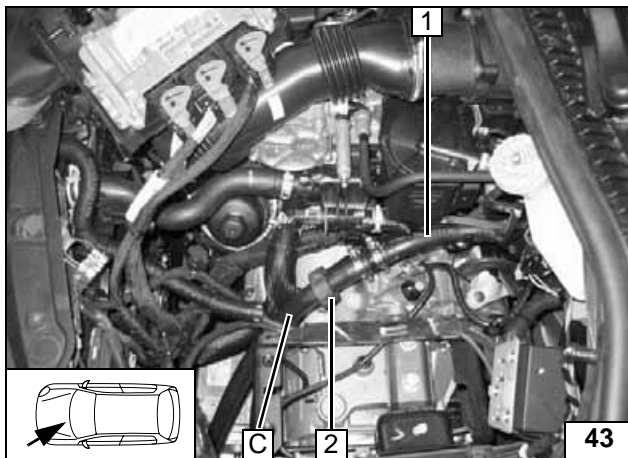


Install coolant hose **C** with 90° elbow on heater unit outlet.

- 1 Black (sw) rubber profile

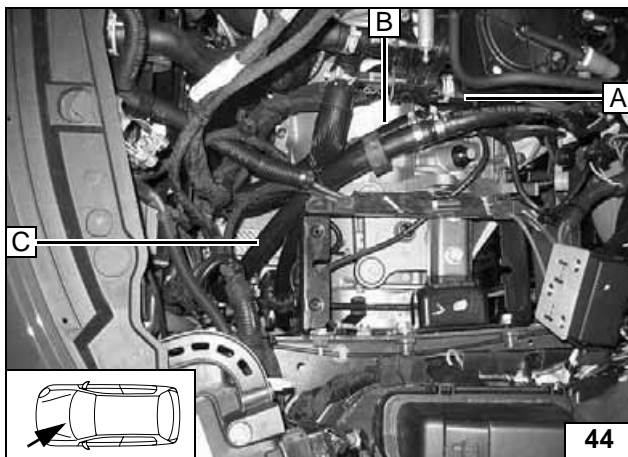


Conne-  
ction to  
heater unit



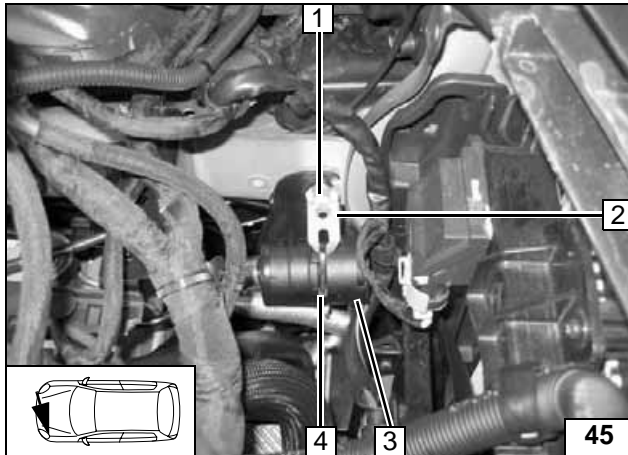
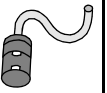
- 1 Hose on heat exchanger inlet
- 2 Black (sw) rubber profile

Conne-  
ction to heat  
exchanger  
inlet



Routing in  
engine  
compart-  
ment

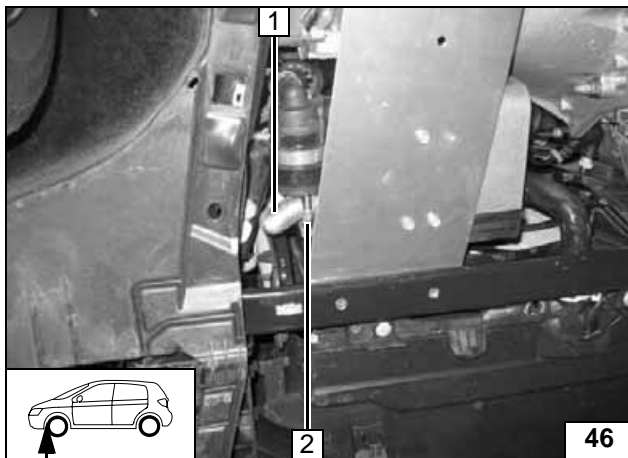




**Combustion air**

- 1 Original vehicle bolt
- 2 Angle bracket
- 3 Combustion-air intake muffler
- 4 Cable tie

**Cutting combustion air pipe to length**



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



**Installing intake pipe**



## Fuel Connection

### CAUTION!

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

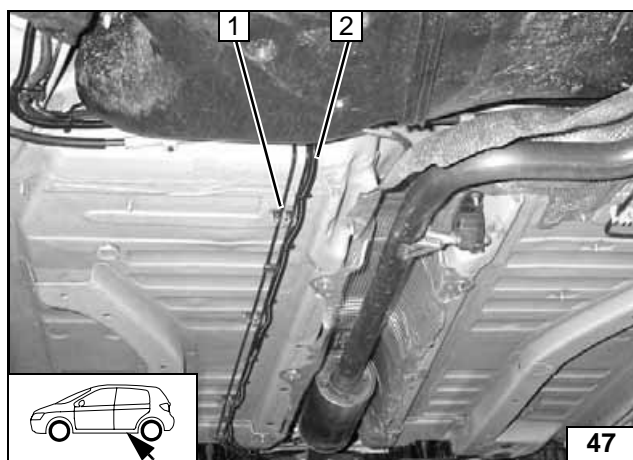
Catch any fuel running off with an appropriate container.

Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.

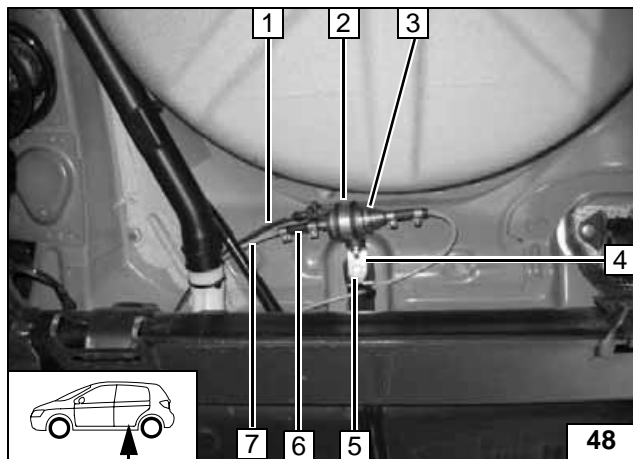
Mount the fuel line and wiring harness with rub protection on sharp edges.

### WARNING!

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

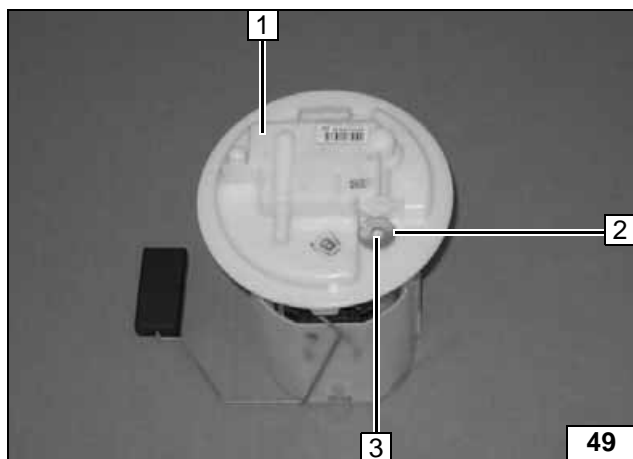


- 1 Original vehicle brake lines
- 2 Fuel line and wiring harness for metering pump in corrugated hose



Ensure proper installation position of metering pump, see "Installation Instructions".  
Installation location behind vehicle fuel tank!  
Fuel line from heater unit on pressure side of metering pump [side with connector].

- 1 Metering pump wiring harness
- 2 Rubber-coated p-clamp, silent block, flanged nut [2x]
- 3 Metering pump
- 4 Angle bracket
- 5 Original vehicle bolt
- 6 Hose section, 10 mm dia. hose clamps [2x].
- 7 Fuel line from heater unit



### Gasoline

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

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



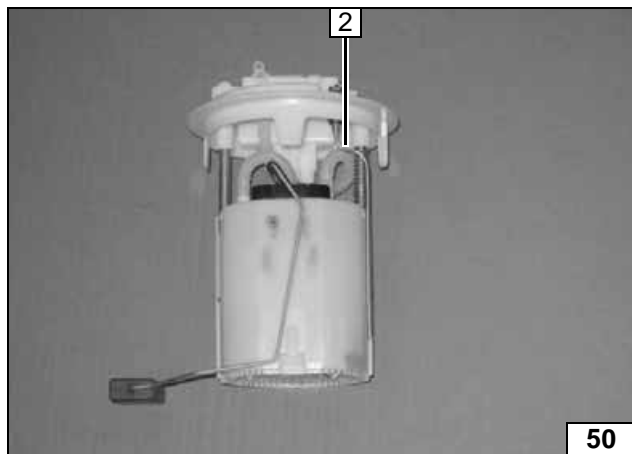
Installing lines



Installation location of metering pump



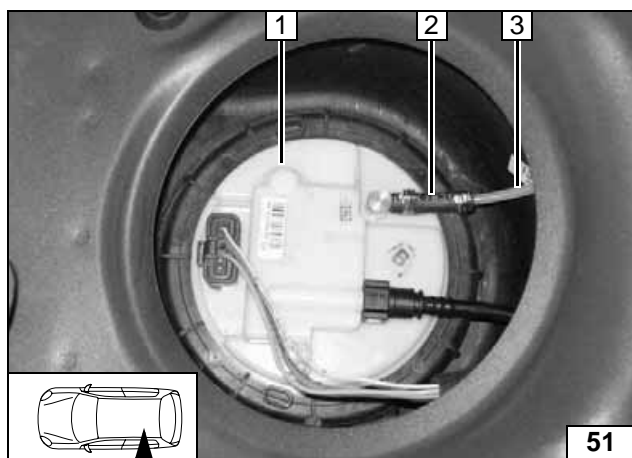
Removing fuel



Shape fuel standpipe 1 according to template, cut to length and install, see "installation instructions".



## Installing fuel standpipe

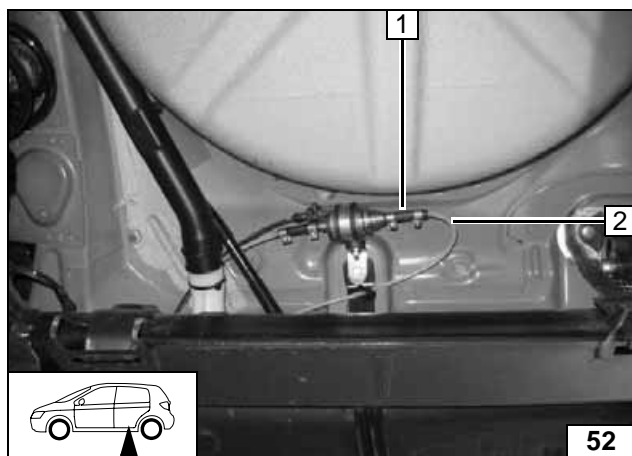


Install fuel-tank sending unit 1 in accordance with manufacturer's specifications.

- 2 Hose section, 10 mm dia. hose clamps [2x].
- 3 Remaining section of Mecanyl fuel line



## Connecting fuel line

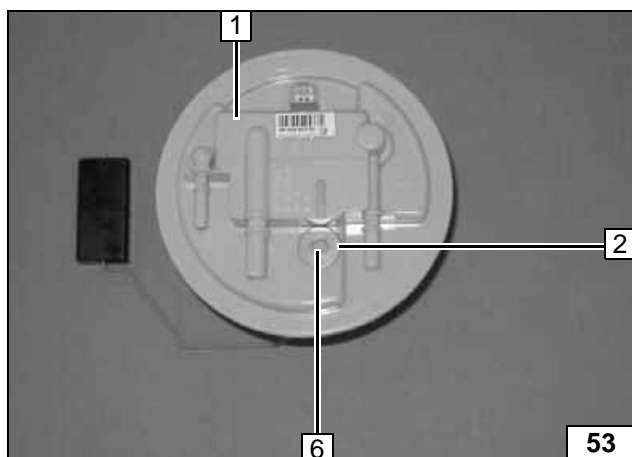


Fuel line from fuel standpipe on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1 Hose section, 10 mm dia. hose clamps [2x].
- 2 Remaining section of Mecanyl fuel line



## Connection to metering pump



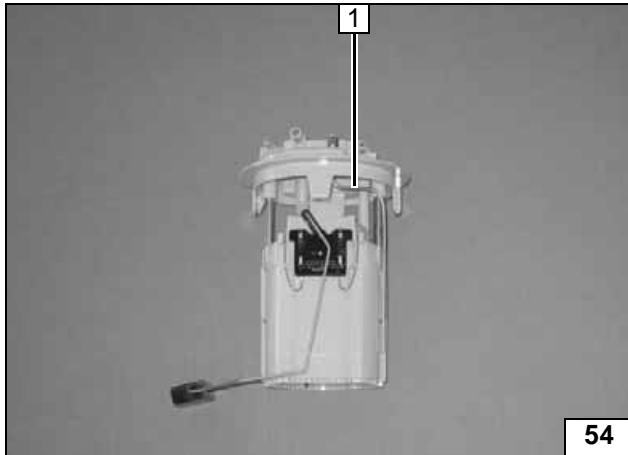
### Diesel

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

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



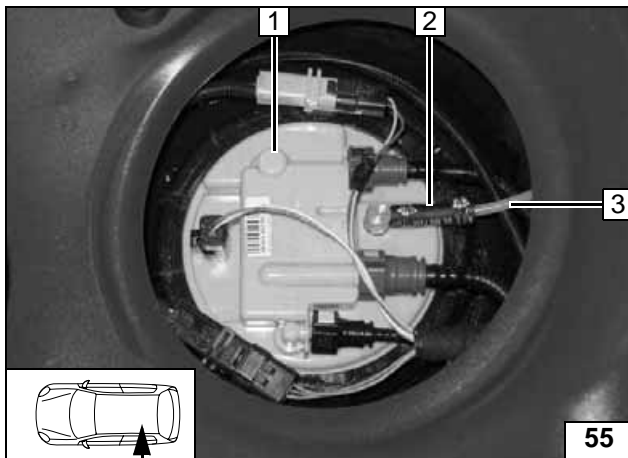
## Removing fuel



Shape fuel standpipe **1** according to template, cut to length and install, see "installation instructions".



## Installing fuel standpipe

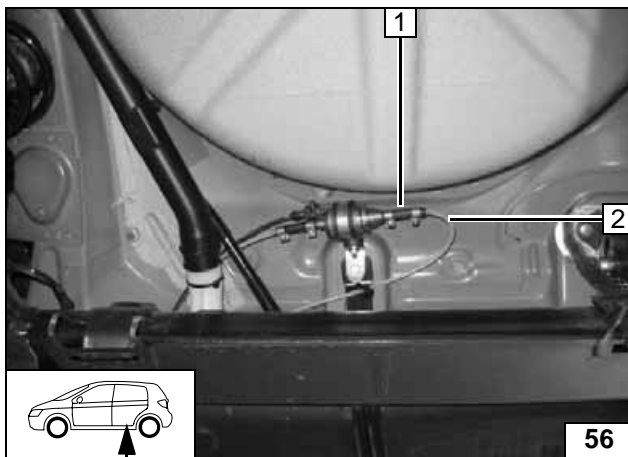


Install fuel-tank sending unit **1** in accordance with manufacturer's specifications.

- 2** Hose section, 10 mm dia. hose clamps [2x].
- 3** Remaining section of Mecanyl fuel line



## Connecting fuel line

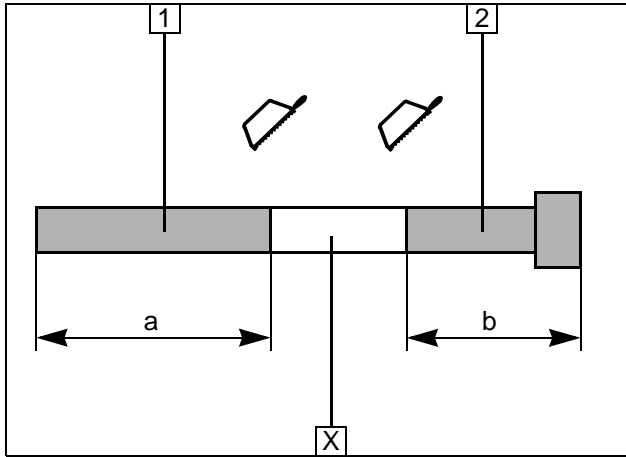
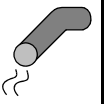


Fuel line from fuel standpipe on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1** Hose section, 10 mm dia. hose clamps [2x].
- 2** Remaining section of Mecanyl fuel line



## Connection to metering pump



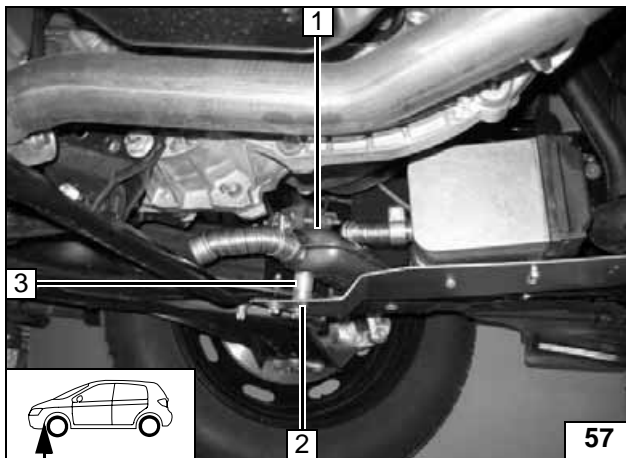
## Exhaust system

### Gasoline

- 1 Exhaust pipe  
a = 230 mm
- 2 Exhaust end section  
b = 100 mm

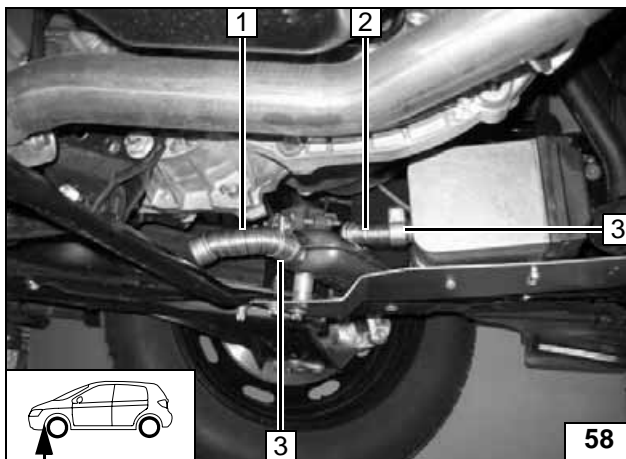
Discard section X

Preparing exhaust pipe



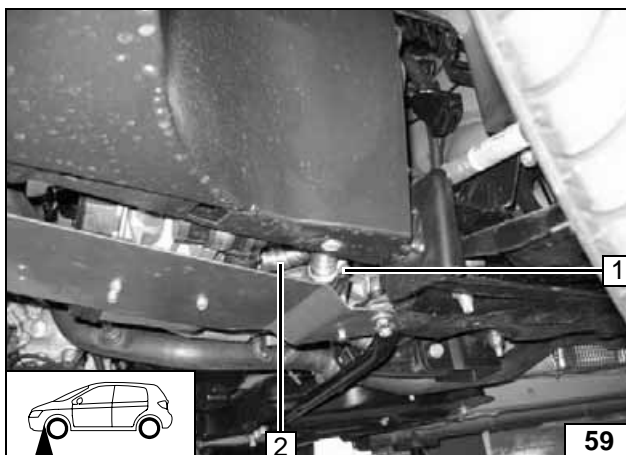
- 1 Muffler
- 2 M6x55 bolt, flanged nut
- 3 40 mm spacer

Installing muffler



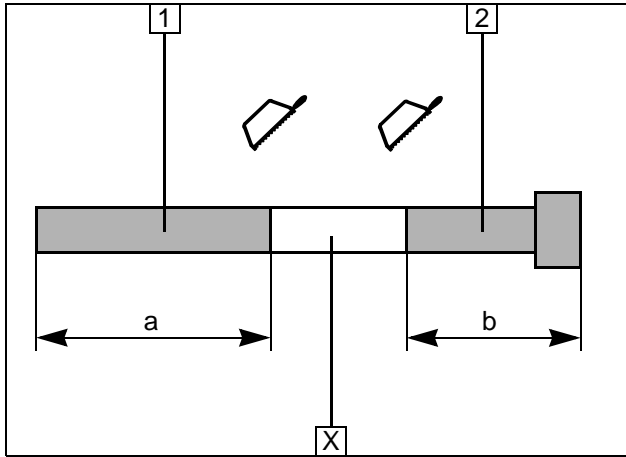
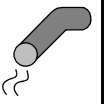
- 1 Exhaust end section
- 2 Exhaust pipe
- 3 Hose clamp [2x]

Installing exhaust pipe



- 1 Hose clamp
- 2 Exhaust pipe

Preparing exhaust pipe

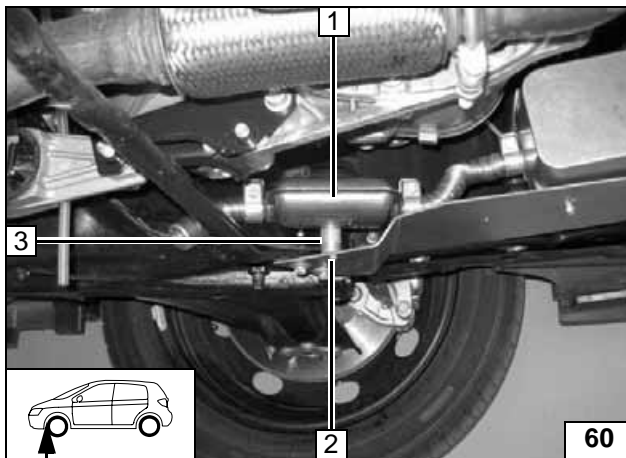


## Diesel

- 1 Exhaust pipe  
a = 170 mm
- 2 Exhaust end section  
b = 100 mm

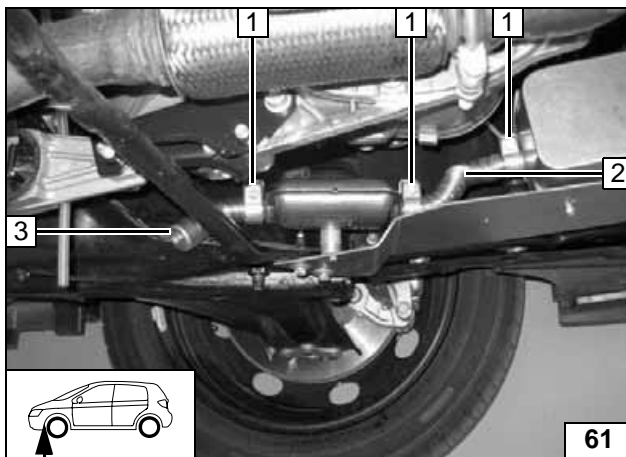
Discard section X

**Preparing  
exhaust  
pipe**



- 1 Muffler
- 2 M6x55 bolt, flanged nut
- 3 40 mm spacer

**Installing  
exhaust  
end  
section**



Ensure sufficient distance to neighboring components.

- 1 Hose clamp [3x]
- 2 Exhaust pipe
- 3 Exhaust end section



**Position-  
ing rubber  
isolator**



## Final Work

### WARNING!

Reassemble the disassembled components in reverse order.

Check all hoses, hose, spring and Caillau clamps, as well as all electrical connections for firm seating. Secure all loose cables using cable ties.

Only use manufacturer-approved coolant.

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

- Connect the battery
- Start the engine, bleed the coolant circuit according to the vehicle manufacturer's instructions and top up coolant
- Set the digital timer.
- Set the manual air conditioning or automatic air conditioning according to the "operating instructions for the end customer".
- Check the proper operation of the additional heater, see the operating instructions/installation instructions.
- Attach the "Switch off additional heater before refueling" sticker to the left-hand B-pillar.



# Webasto

*Feel the drive*

Webasto AG  
Postfach 80 - 82132 Stockdorf, Germany - Hotline +49-  
(0)1805-932278  
Hotfax +49-(0)395-5592-353 - <http://www.webasto.de>

**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.

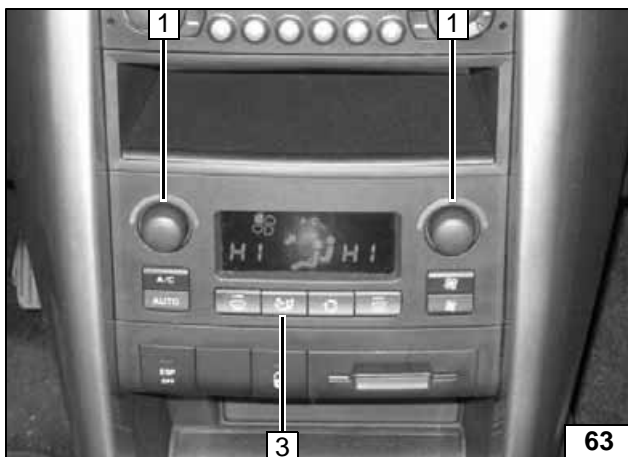
If the summer/winter switch option has been installed, this must be switched in accordance with the time of year. The heater unit will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter  heat and in the position Summer .

Before parking the vehicle, make the following settings:



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

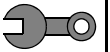
**Manual air conditioning**



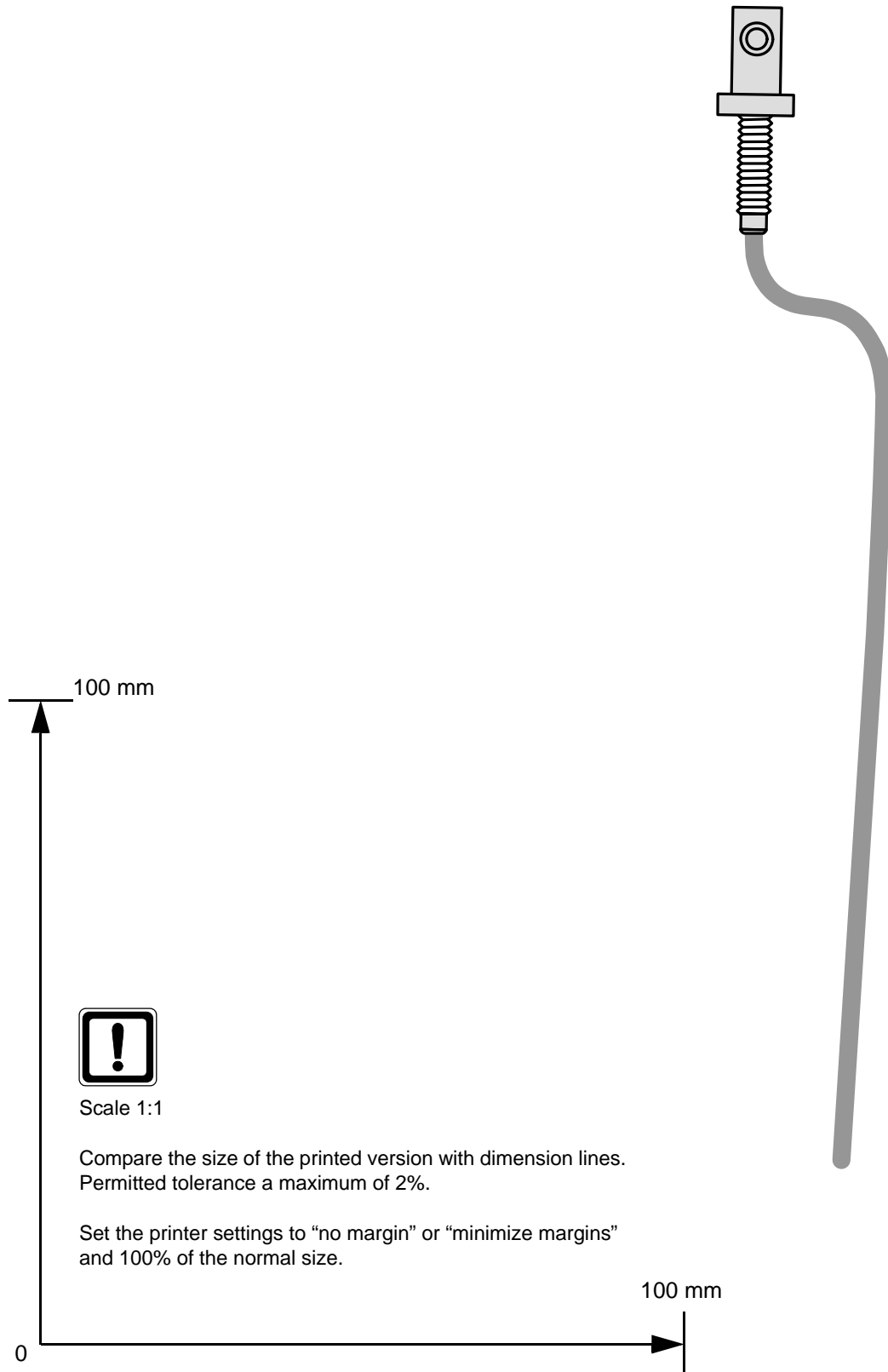
- 1 Set temperature to "max."
- 2 Air outlet to windshield

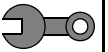
**Automatic air-conditioning**





### Template for Gasoline Fuel Standpipe





Template for Diesel 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