

# Water Heater Unit



Feel the drive

**Thermo Top E Auxiliary Heating**  00 0003

**Thermo Top C Auxiliary Heating**  00 0002

**Thermo Top P Auxiliary Heating**  00 0104

## Installation Instructions

### Nissan Note

Gasoline

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 warning instructions.**

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

## Table of Contents

Validity	2	Preparing the Installation Location	12
Heater Unit / Scope of Delivery	3	Preparing the Heater Unit	13
Foreword	3	Installing the Heater Unit	14
General Instructions	3	Water Connection	15
Special Tools	3	Combustion Air	18
Explanatory Notes on the Document	4	Fuel Connection	19
Preliminary Work	5	Exhaust System	22
Heater Unit Installation Location	5	Final Work	23
Electrical Connections	6	Operating instructions for the end customer	24
Manual air conditioning blower control	7	Bracket for Template	25
Automatic air conditioning blower control	8	Tank Extracting Device Template	26
Time switch	10		
Summer / winter switch option	10		
Remote Start Option	10		
Thermo Call Option	11		

## Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Nissan	Note	E11	e11 * 2001 / 116 * 0268 * ...

Engine type	Engine	Power in kW	Engine capacity in cm <sup>3</sup>
CR14DE	Gasoline	65	1386
HR16	Gasoline	81	1598

Vehicle and engine types, equipment variants as well as national specifications, which are not listed in these installation instructions, have not been tested. Installation according to these installation instructions may, however, be possible.

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

## Heater Unit / Scope of Delivery

Amount	Description	Order no.:
1	Nissan-specific scope of delivery	See Nissan price list
1	Installation kit for Nissan Note Gasoline	1310821A

### Control elements:

Description	Order no.:
Control elements	See Nissan price list

### Recommended heater unit for the relevant vehicle class:

Vehicle	Heater unit
Compact car	Thermo Top E
Mid-class, station wagon	Thermo Top C
Luxury, van, off-roader	Thermo Top P

Select the heater unit based on the size of the vehicle passenger compartment and the customer's comfort requirements.



## Foreword

These installation instructions apply to Nissan Note vehicles with Gasoline engines – re. 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** are to be observed in any event.

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 cable harnesses to original vehicle lines and cable harnesses using cable clips.

Sharp edges should be fitted with edge protectors (split open plastic hose).

Spray unfinished body areas, such as for example bore holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329)!

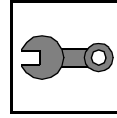
## Special Tools

- Torque spanner for 2.0 - 10 Nm
- Vise-grip wrench
- Riveting nut tool

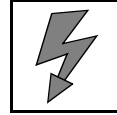
## Explanatory Notes on the Document

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.

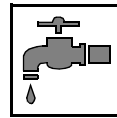
### Mechanics



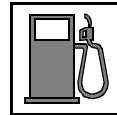
### Electrics



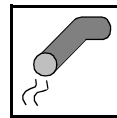
### Water connection



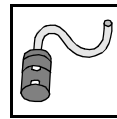
### Fuel connection



### 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.



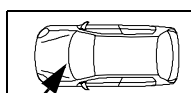
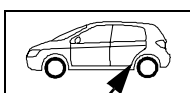
Specific risk of fire or explosion.



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



Reference to a special technical feature.

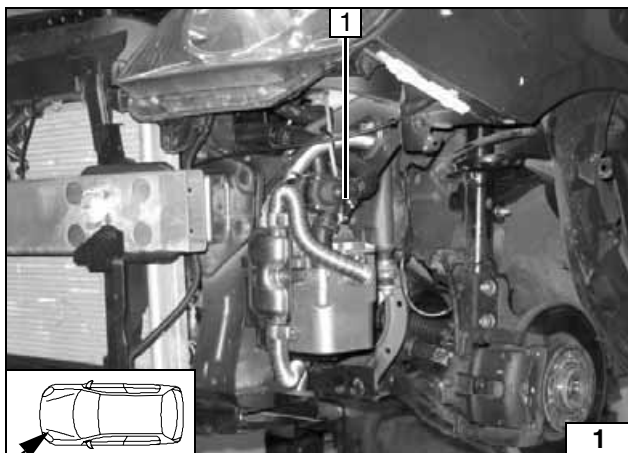


The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

**Preliminary Work**

**WARNING!**

- Pressure in 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.
- Disconnect the battery and remove with the box assembly.
- Remove the air filter housing
- Open the tank cap, ventilate the tank.
- Close the tank cap again.
- Remove the left front wheel.
- Loosen the right and left wheel-house panel.
- Remove the front bumper cover.
- Remove the rear seat bench.
- Open the tank mounting service lid
- Remove tank mounting according to manufacturer's instructions.
- Remove the dashboard panel on the driver's side.
- Remove the fuse and relay support on the driver's side
- Remove the radio and air conditioning control according to the manufacturer's instructions (only for automatic air conditioning systems).
- Remove the glove compartment (only for HTM 100)



**Heater Unit Installation Location**

1 Heater unit

**Installation location**

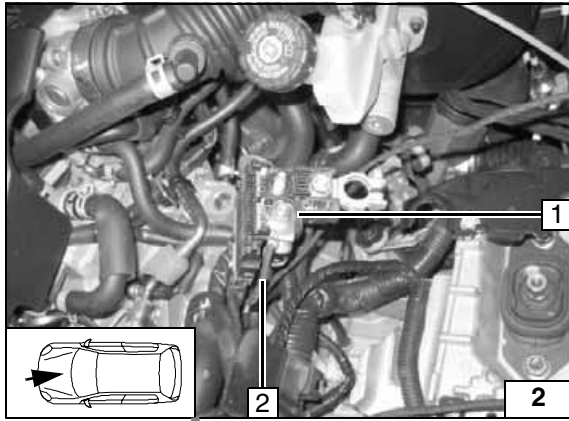


Electrical Connections



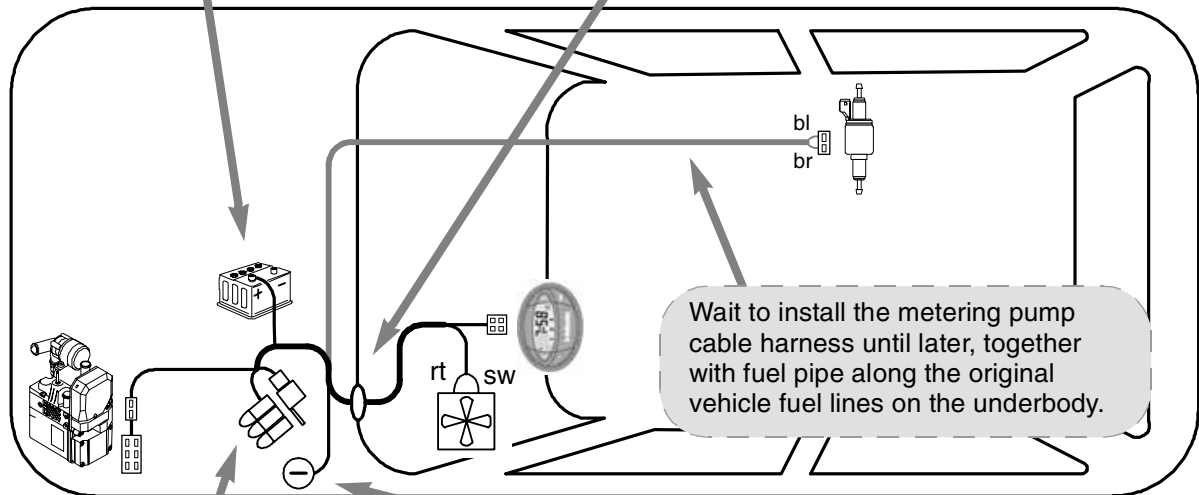
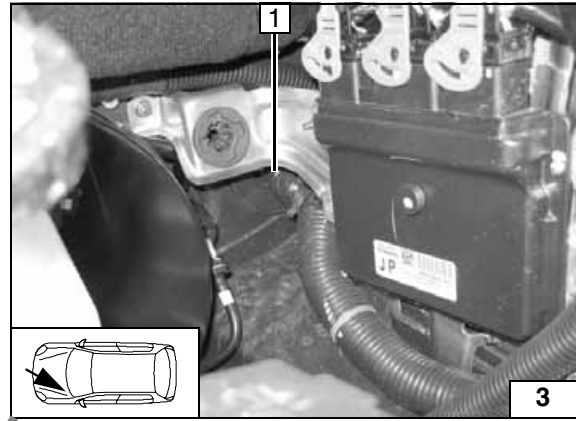
Positive connection

- 1 Positive wire to battery positive terminal
- 2 Positive wire

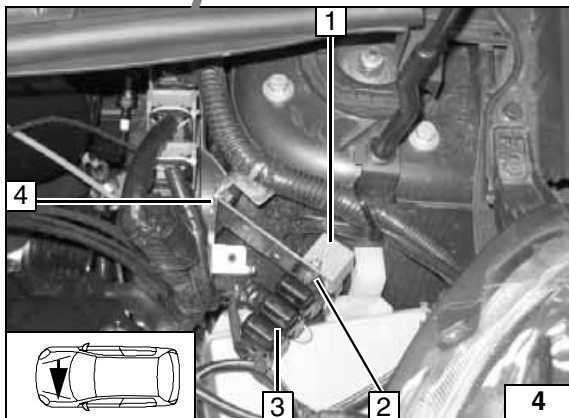


Cable harness feed-through

- 1 Protective rubber sleeve

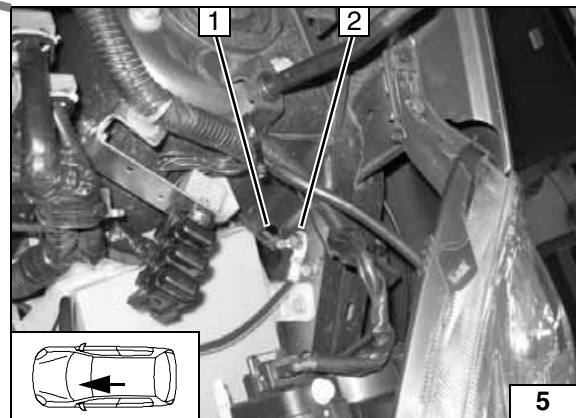


Cable harness installation diagram



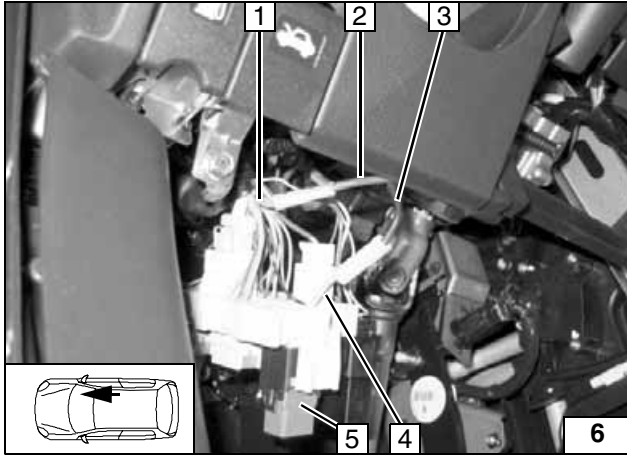
Fuse holder, K3 relay

- 4 Fuse holder to existing screw
- 1 K3 relay
- 2 Fuse holder retaining plate, screw M4x16, washers, nuts
- 3 Fuses



Ground connection

- 1 Ground wire
- 2 Original vehicle cable harness



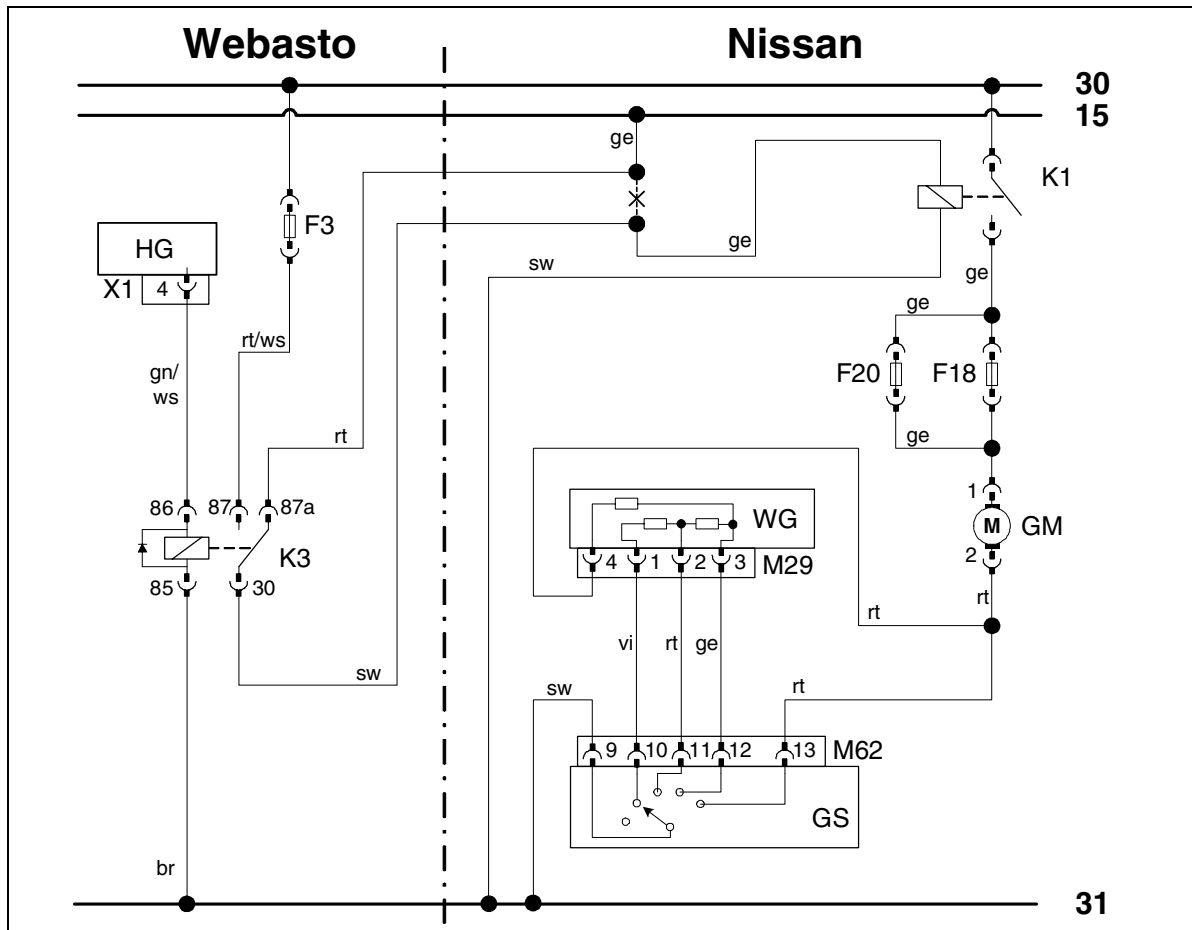
**Manual air conditioning blower control**

Connection to the blower relay K1 5 behind the fuse and relay support  
Connect according to the circuit diagram.

- 1 Yellow (ge) wire (terminal 15)
- 2 Red (rt) wire from K3/87a
- 4 Yellow (ge) wire to the blower relay K1
- 3 Black (sw) wire from K3/30



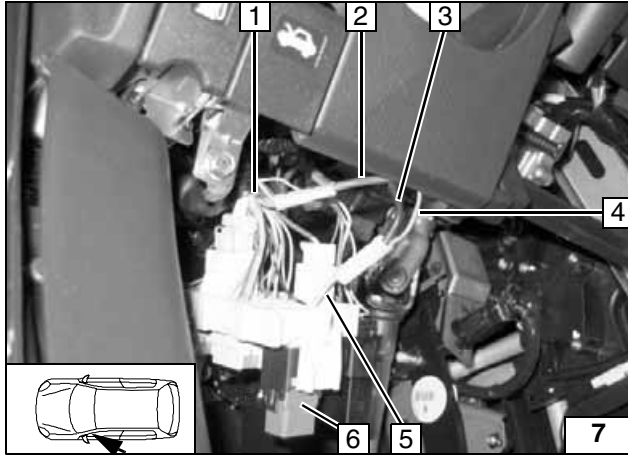
**Connection to blower relay**



**Manual air conditioning circuit diagram**

Webasto components		Components Nissan Note		Colors and symbols	
HG	Heater unit TT-C/E	GM	Blower motor	rt	red
X1	6-pin heater unit connector	K1	Blower relay	ws	white
K3	Blower relay	GS	Blower switch	sw	black
F3	Replace fuse 25A with 10A	M62	15-pin blower switch connector	br	brown
		WG	Resistor group	gn	green
		M29	4-pin connector WG	ge	yellow
		F18	Fuse, 15A	vi	purple
		F20	Fuse, 15A		
				X	Splitting point
				Cable colors may vary.	

**Legend**

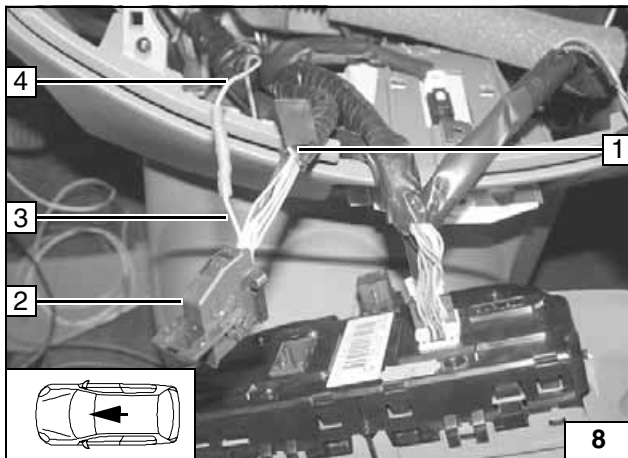


**Automatic air conditioning blower control**

Connection to the blower relay K1 6 behind the fuse and relay support  
Connect according to the circuit diagram.


- 1 Yellow (ge) wire (terminal 15)
- 2 Red (rt) wire from K3/87a
- 5 Yellow (ge) wire to the blower relay K1
- 3 Black (sw) wire from K3/30
- 4 Additional wire, green/white (gn/ws) from K1/1

  
**Connection to blower relay**

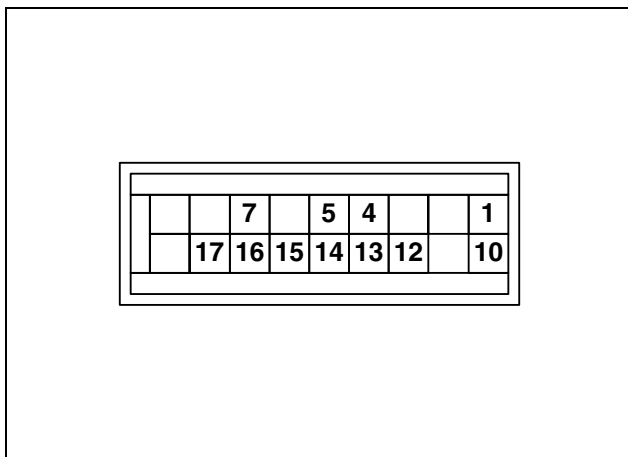


Connection to 18-pin connector M64 2 from the air conditioning control.  
Create connection according to the circuit diagram.

- 1 Insulate the orange (or) wire to the fuse F5-20 and tie back the ends
- 3 Wire to connector M64/17
- 4 Additional wire, green/white (gn/ws)

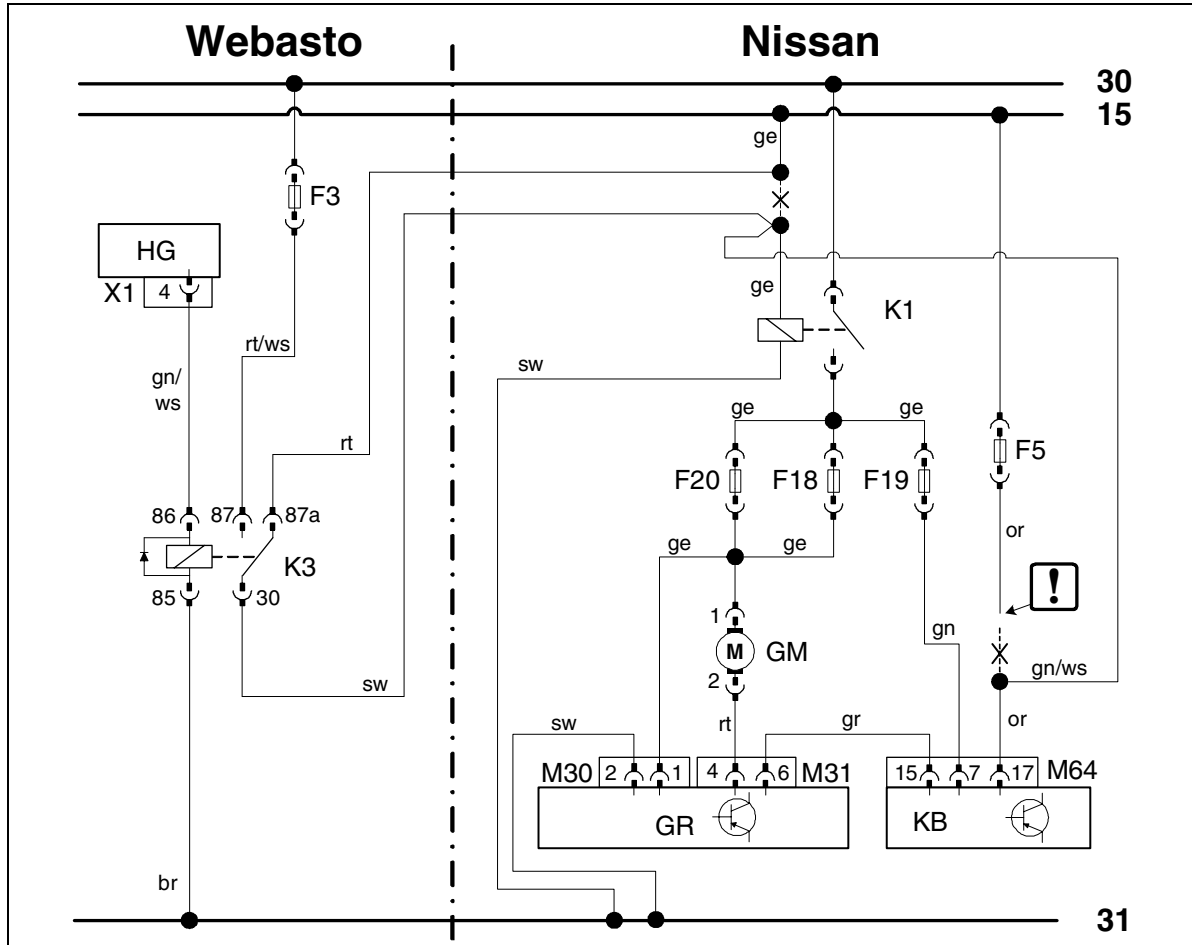
  
**Connecting to the air conditioning control**

View of connector M64, contact side



  
**Connector M64**

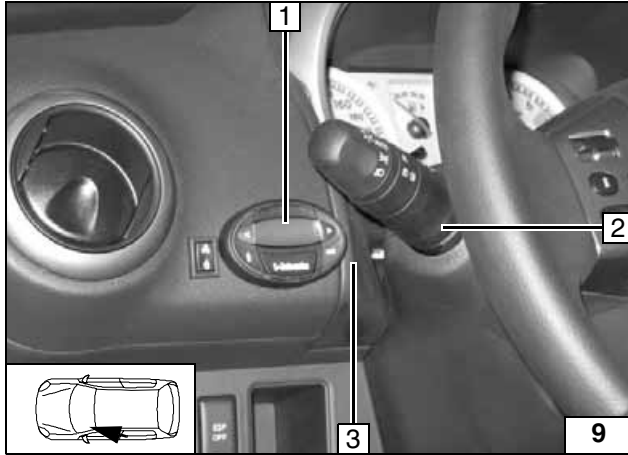




Automatic air conditioning circuit diagram

Webasto components		Components Nissan Note		Colors and symbols	
HG	Heater unit TT-C/E	GM	Blower motor	rt	red
X1	6-pin heater unit connector	K1	Blower relay	ws	white
K3	Blower relay	GR	Blower controller	sw	black
F3	Replace fuse 25A with 10A	M30	2-pin connector for blower controller	br	brown
		M31	6-pin connector for blower controller	gn	green
		KB	Air conditioning control	ge	yellow
		M64	18-pin air conditioning control connector	or	orange
		F5	Fuse, 10A		
		F18	Fuse, 15A	X	Splitting point
		F19	Fuse, 10A	!	Insulate and tie back wire ends
		F20	Fuse, 15A		
				Cable colors may vary.	

Legend

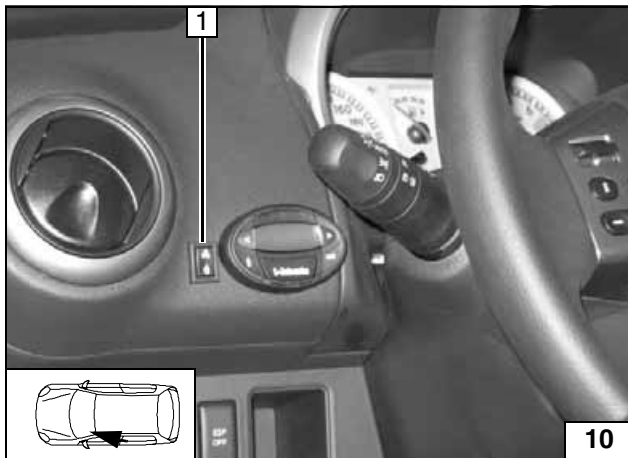


**Time switch**

- 1 Time switch



**Assembling the time switch**

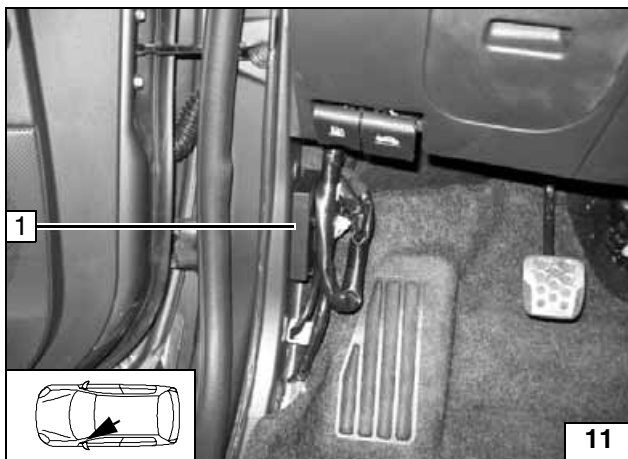


**Summer / winter switch option**

- 1 Bore hole Ø 12 mm, summer / winter switch



**Assembling the summer / winter switch**

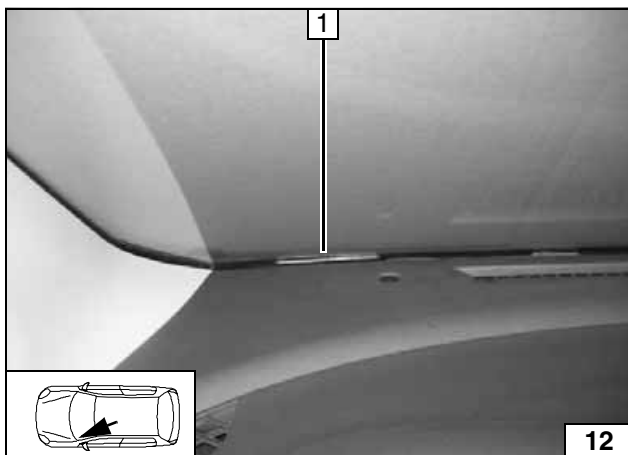


**Remote Start Option**

- 1 Receiver, fasten to left-hand A-pillar as appropriate

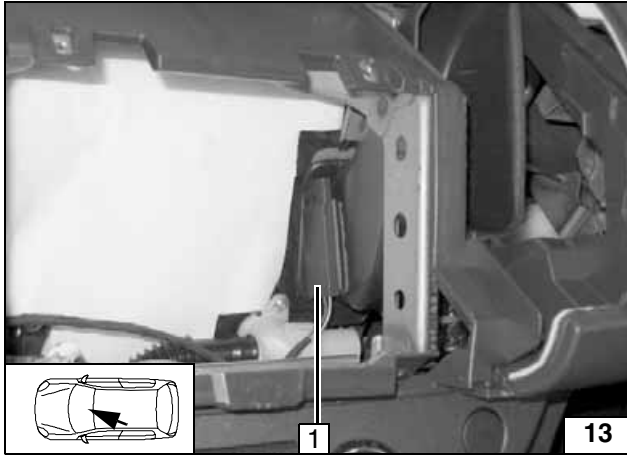


**Assembling the receiver**



- 1 Antenna

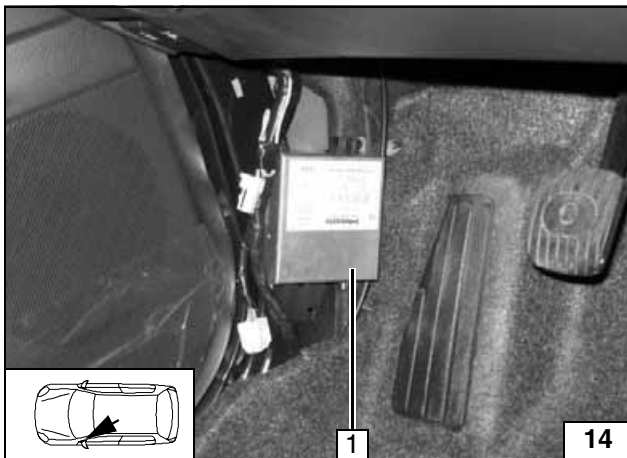
**Assembling the antenna**



**Temperature sensor for HTM100 only**

- 1 Temperature sensor, fasten behind the glove compartment as appropriate

Assembling the temperature sensor

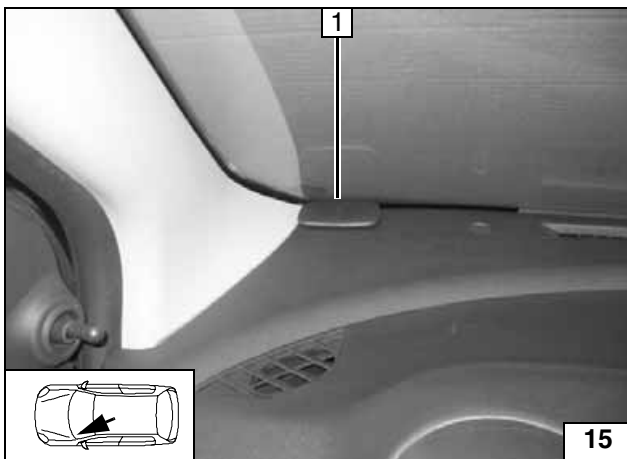


**Thermo Call Option**

- 1 Receiver, fasten to left-hand A-pillar as appropriate

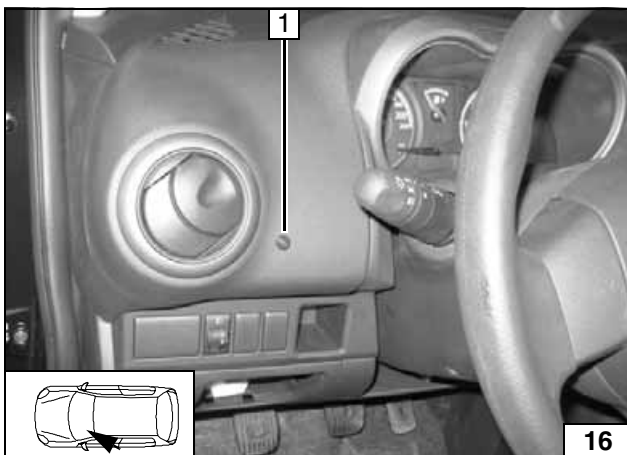


Assembling the receiver



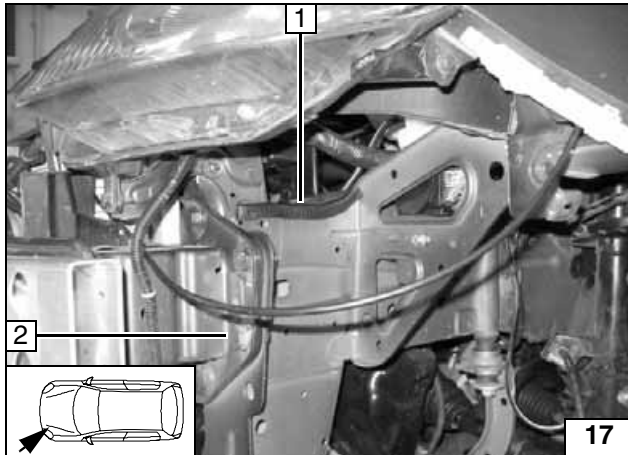
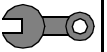
- 1 Antenna

Assembling the antenna



- 1 Tip switch

Assembling the tip switch



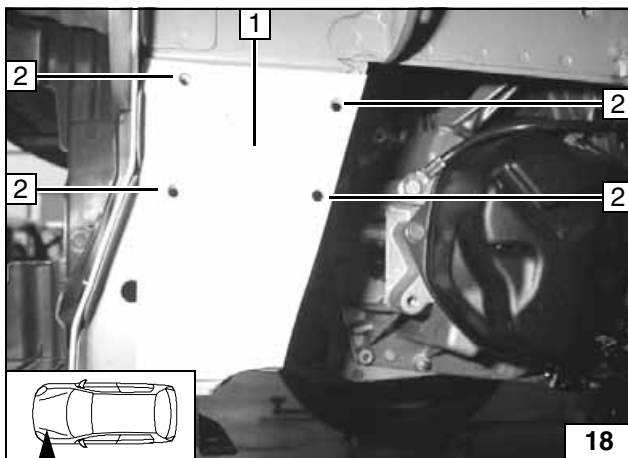
**Preparing the Installation Location**

Insert three washers at position 2 on the original vehicle bolts.

- 1 Inserting edge protection

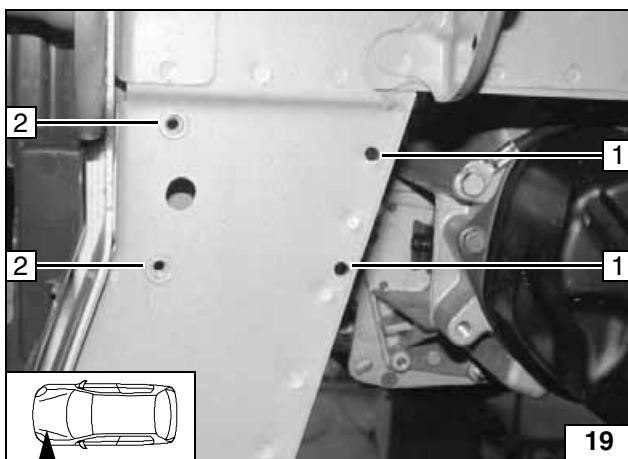


**Inserting bolts**



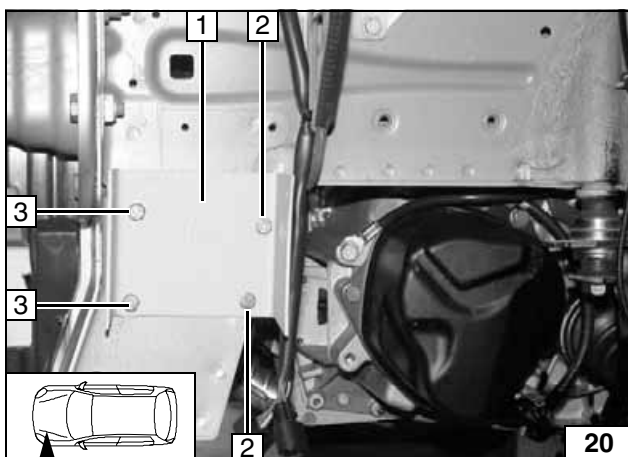
- 1 Template (see annex)
- 2 Copying the hole image [4x]

**Copying the hole image**



- 1 Ø 7 mm bore hole [2x]
- 2 Ø 9.1mm bore hole; insert rivet nuts [2x each]

**Inserting rivet nuts**

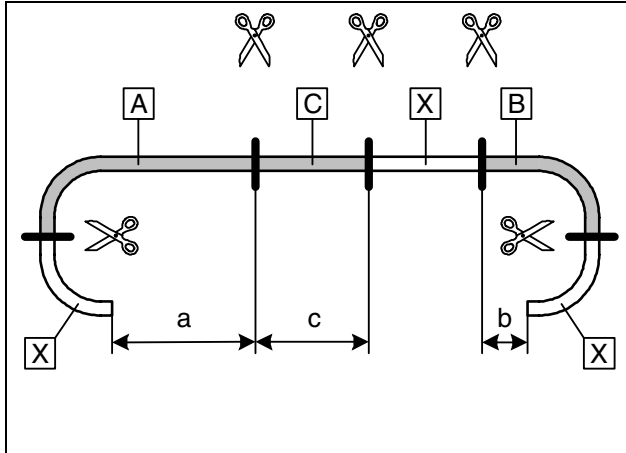
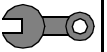


Between heater unit and bracket, insert two washers each at position 2 and one washer each at position 3.

- 1 Bracket
- 2 M6x20 bolt, body washer, flanged nut [2x each]
- 3 M6x20 bolt, spring washer, body washer [2x each] on prepared rivet nuts



**Assembling the bracket**



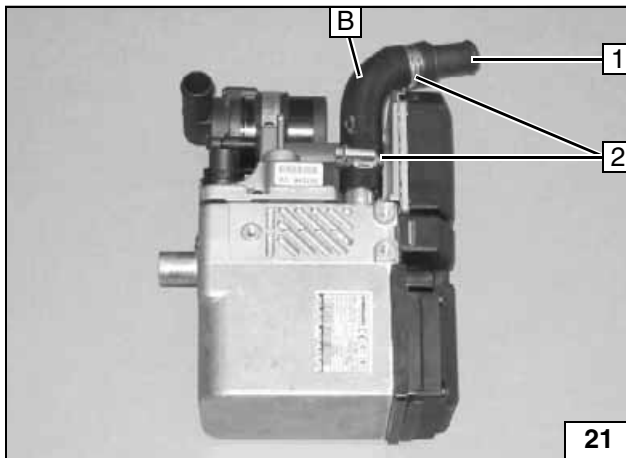
**Preparing the Heater Unit**

a = 740 mm  
 b = 40 mm  
 c = 670 mm

Dispose of section X



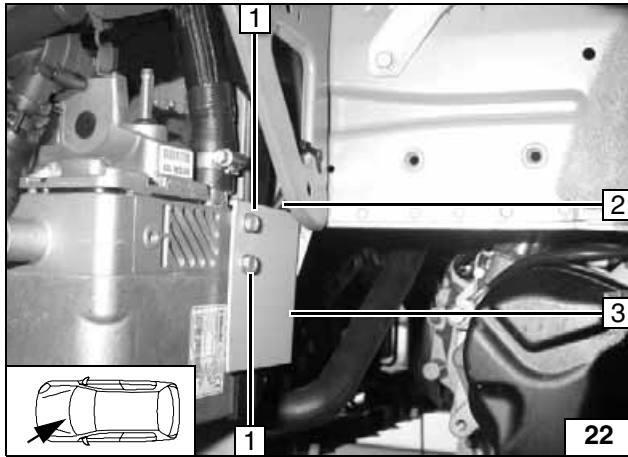
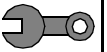
**Cutting water hoses into sections**



- 1 Connecting pipe 20x20
- 2 Ø 27mm hose clamps [2x]



**Pre-assembling hose B on the heater unit**



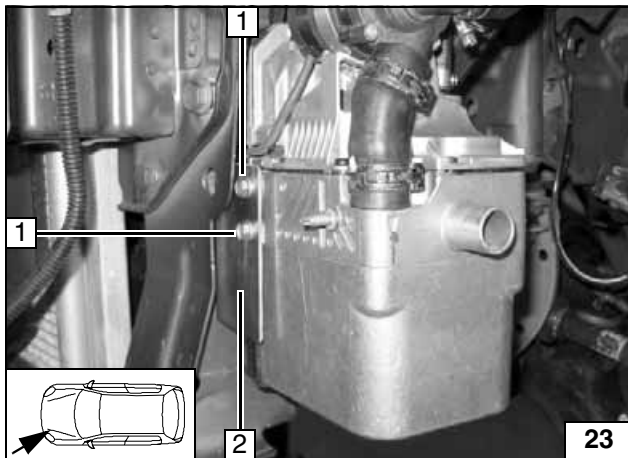
**Installing the Heater Unit**

Prior to assembly, put on the heater unit cable harness  
Eject screw bolts tightening torque 10 Nm!

- 2 Heater unit cable harness
- 3 Bracket
- 1 Eject screw bolt [2x]



**Assembling the heater unit**

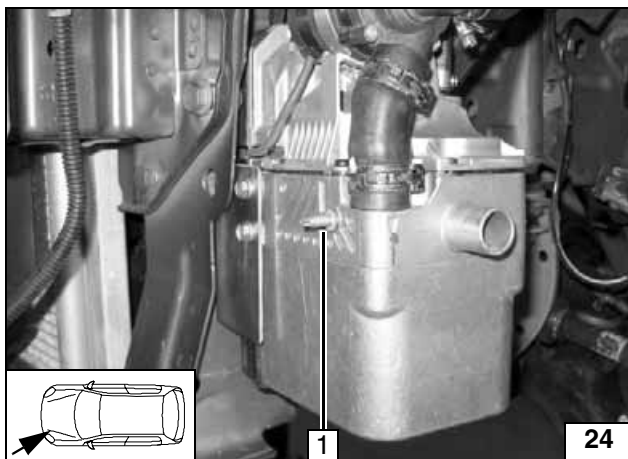


Eject screw bolts tightening torque 10 Nm!

- 2 Bracket
- 1 Eject screw bolt [2x]



**Assembling the heater unit**

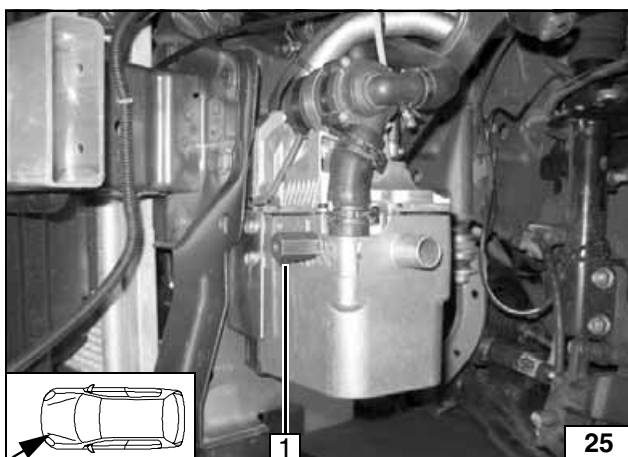


Eject stay bolts, tightening torque 10 Nm.

- 1 Eject stay bolts

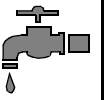


**Assembling the stay bolts**



- 1 30 mm spacer nut

**Assembling the spacer nut**



**Water Connection**

**WARNING!**

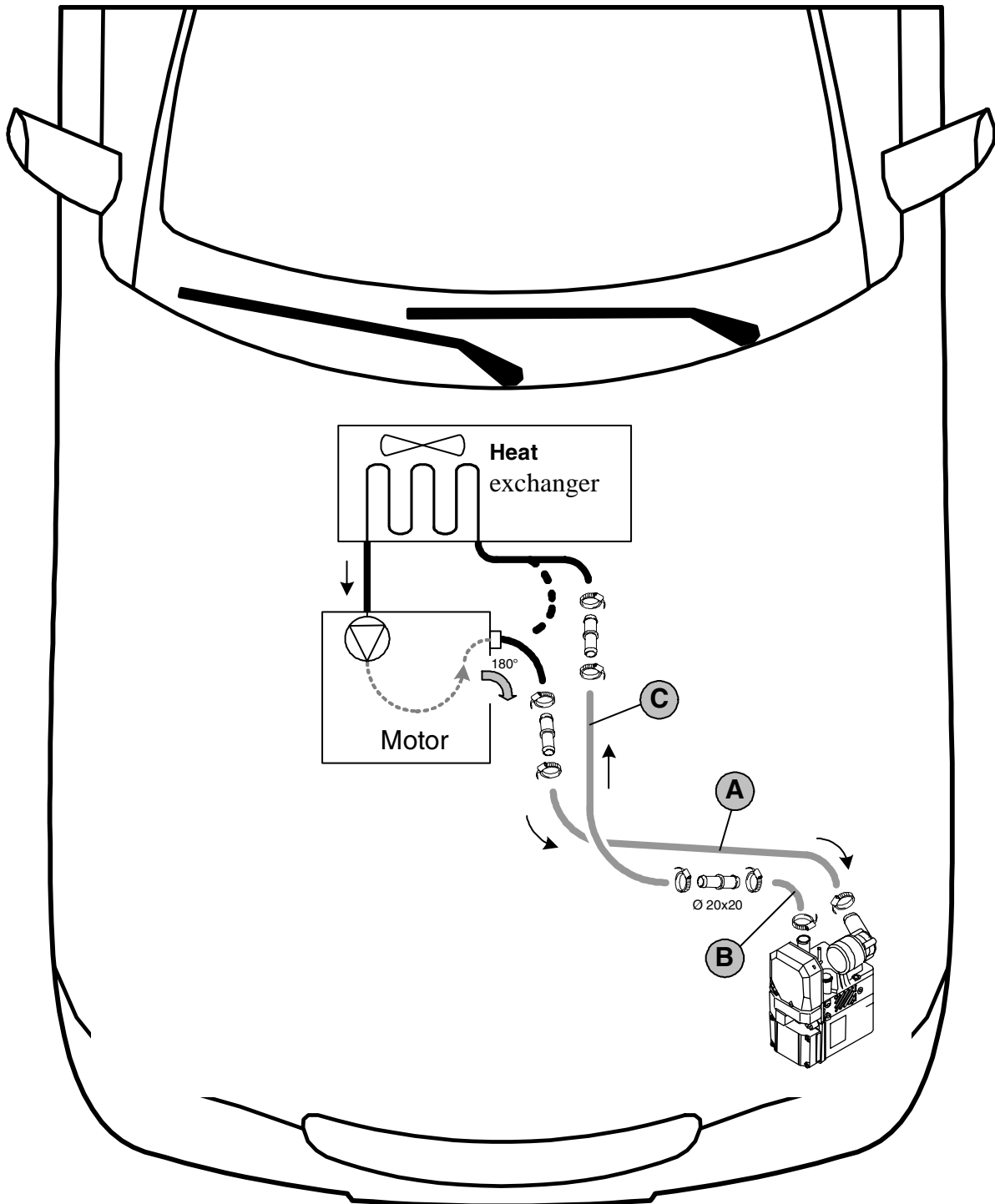
Tighten all hose clamps with  $2.0 + 0.5$  Nm.

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 clips.

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

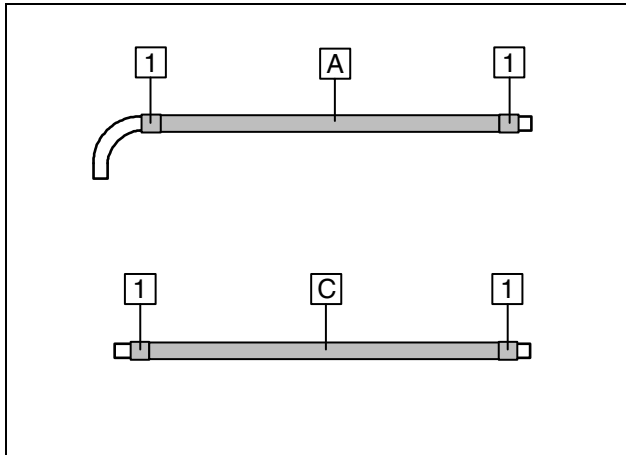
The connection should be "inline" based on the following diagram:



Water installation diagram

All hose clamps =  $\text{Ø } 20\text{-}27\text{mm}$ .  
 All undesigantated connecting pipes =  $\text{Ø } 18\text{x}20$ .



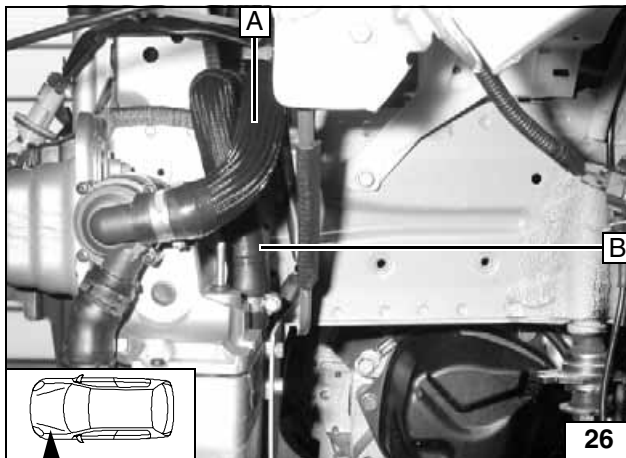


Slide the braided protective hoses onto hose **A** and **C** and cut into sections. Cut shrink-fit hose to size.

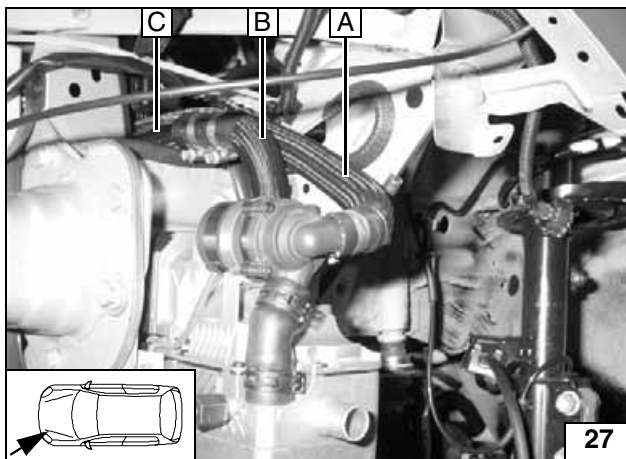
1 25 mm shrink-fit hose [4x]



Preparing the water hoses



Connecting to the heater unit

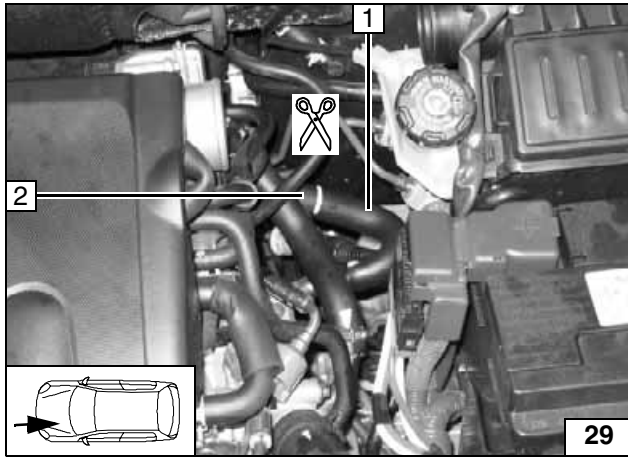


Connecting to the heater unit



Placement in the engine compartment



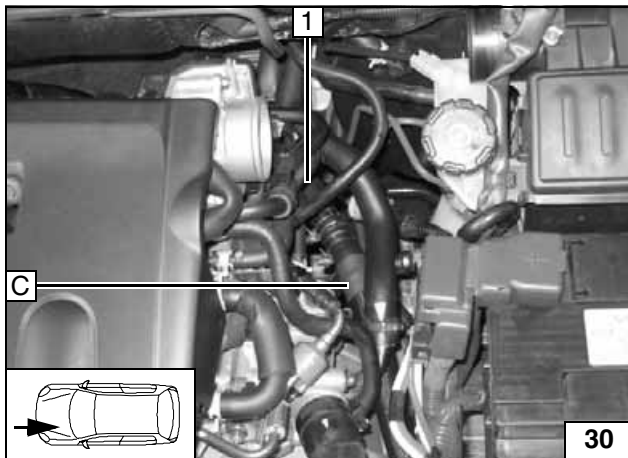


Turn the hose section on the outlet connecting piece to the front.

- 1 Hose section from engine outlet
- 2 Hose section to the heat exchanger inlet



Splitting point

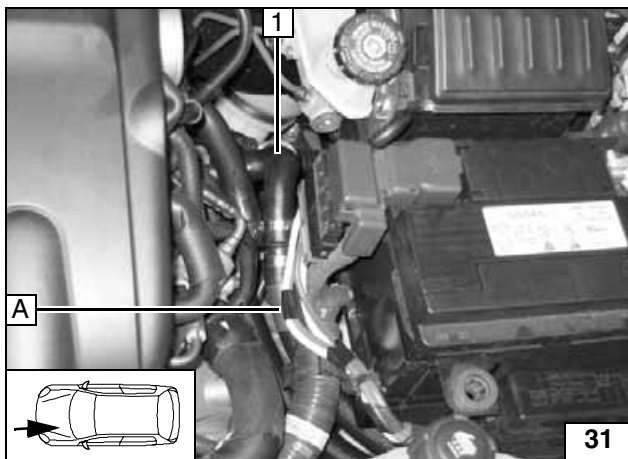


Before connecting, fill the water hoses with cold water

- 1 Heat exchanger inlet hose



Connecting to the heat exchanger inlet

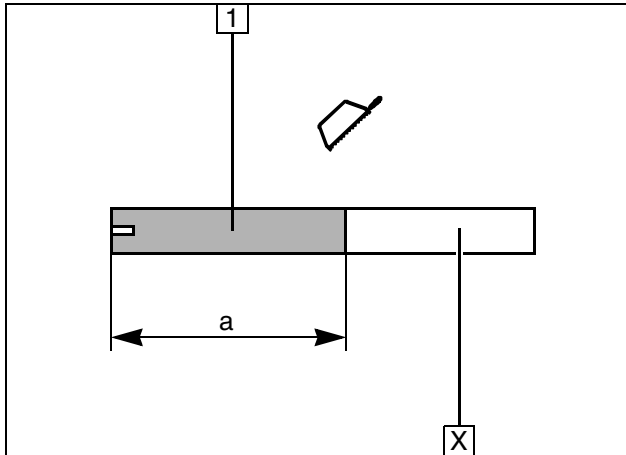


Before connecting, fill the water hoses with cold water

- 1 Engine outlet hose turned



Connecting to the engine outlet

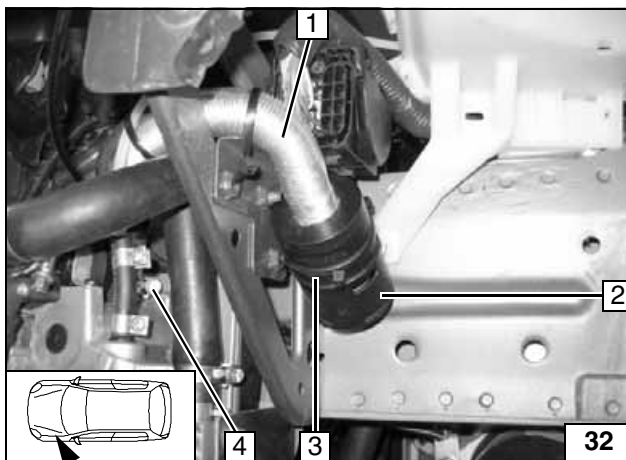


**Combustion Air**

- 1 Combustion air pipe  
a = 280 mm

Dispose of section X

**Cutting the combustion air pipe into sections**



Fasten silencer with cable clips to original vehicle bore hole

- 1 Combustion air intake pipe
- 4 Ø 27 mm hose clamp
- 2 Combustion air intake silencer
- 3 Cable clip



**Assembling the silencer**



## Fuel Connection

### CAUTION!

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

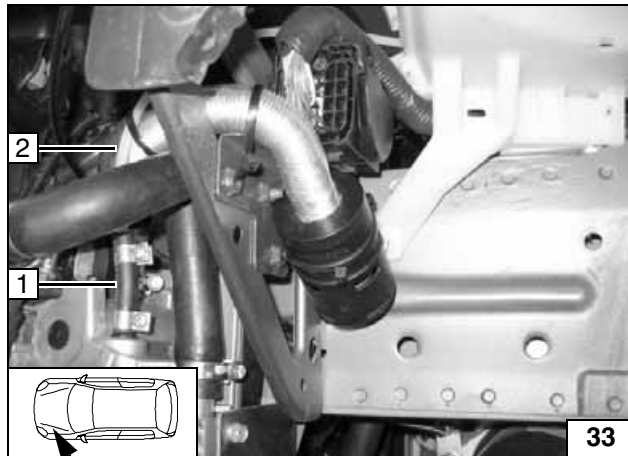
Catch any fuel running off with an appropriate container.

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

Fit the fuel line and cable harness with edge protectors around sharp edges.

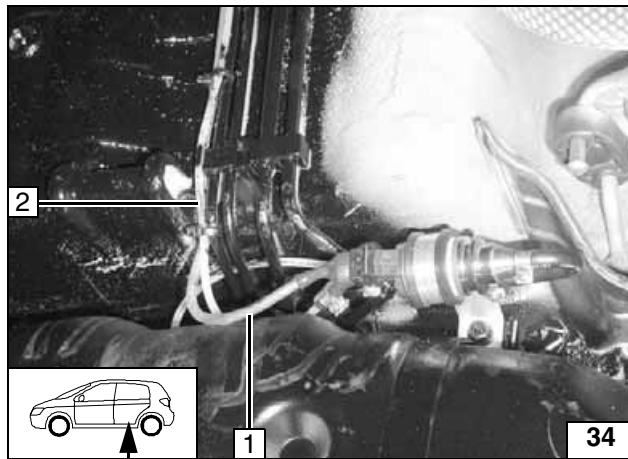
### WARNING!

The fuel line and cable harness to the metering pump should be installed based on the cable harness installation diagram.



- 2 Mecanyl fuel line
- 1 Hose section, Ø 10 mm hose clamps [2x]

Conne-  
cting to the  
heater unit

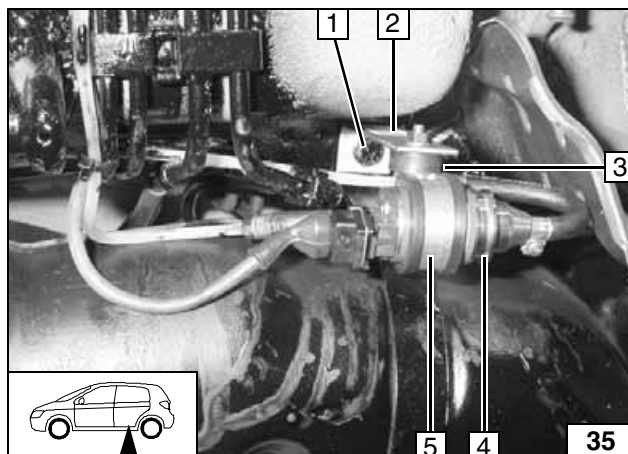


Note the installation position of the metering pump, see the Installation Instructions. The installation location is in front of the vehicle tank.

- 1 Metering pump cable harness
- 2 Mecanyl fuel line

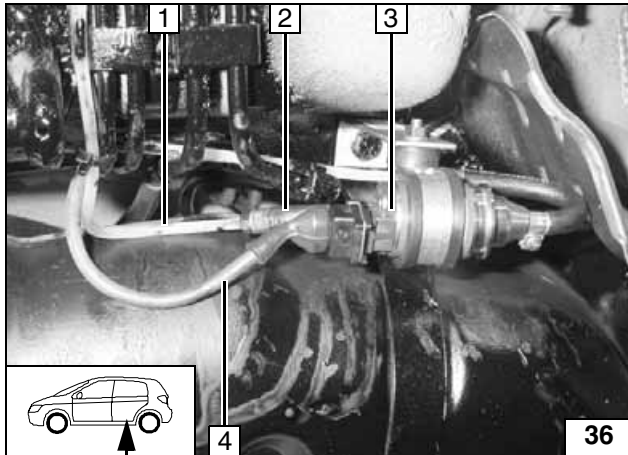


Metering  
pump  
installation  
location



- 2 Angle bracket
- 1 Original vehicle bolt
- 3 Silent block, flanged nut [2x]
- 4 Metering pump
- 5 Rubberized tube clamp

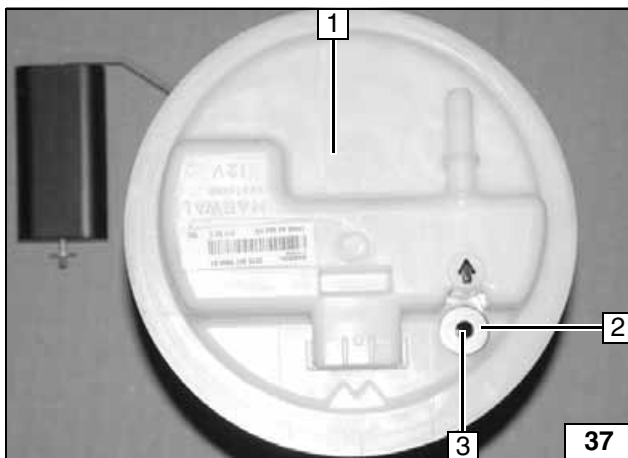
Assem-  
bling the  
metering  
pump



Fuel line from the heater unit on the pressure side of the metering pump [side with connector].

- 3 Metering pump
- 1 Fuel line
- 2 Hose section, Ø 10 mm hose clamps [2x]
- 4 Metering pump cable harness, wire seals, flat connector, connector housing

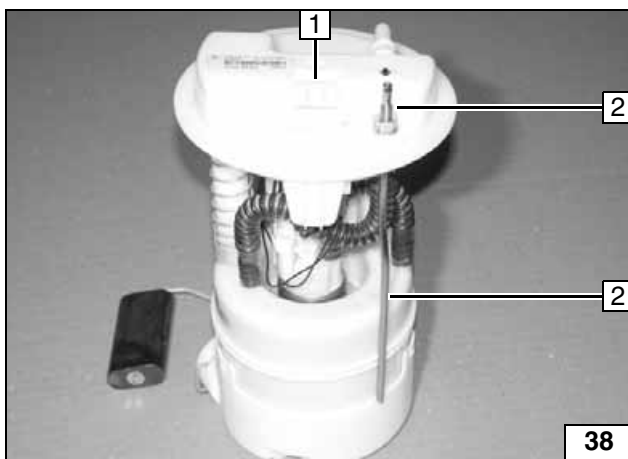
**Connecting the metering pump**



Remove tank mounting according to manufacturer's instructions.

- 1 Tank mounting
- 2 Washer, external Ø =17.6mm
- 3 Copy the hole image, Ø 6 mm bore hole.

**Fuel take-off**

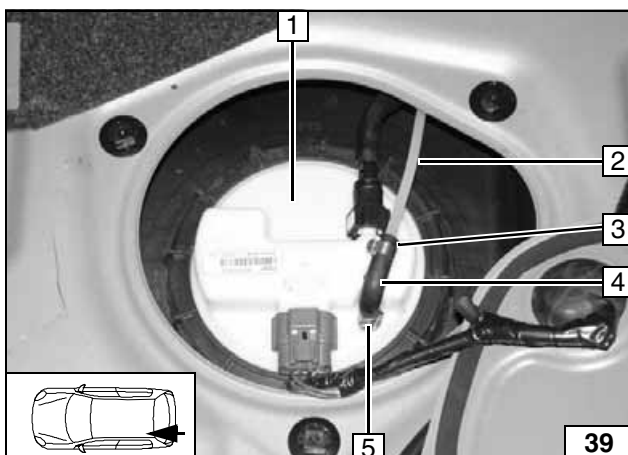


Shape, cut into sections, and insert the tank extracting device according to the template, see the Installation Instructions.

Tank extracting device tightening torque 5 Nm!

- 1 Tank mounting
- 2 Tank extracting device

**Inserting tank extracting device**

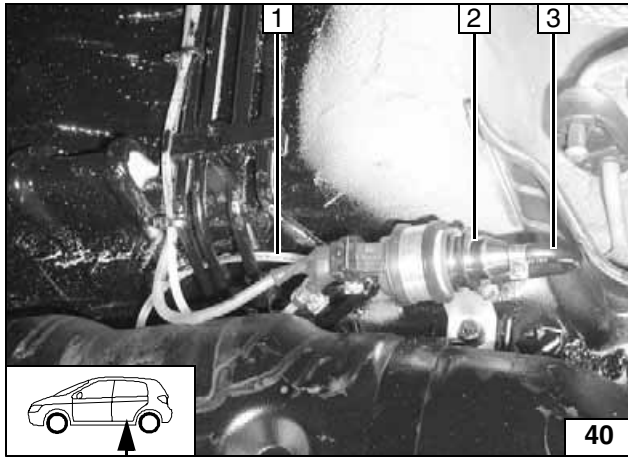


Install the tank mounting according to manufacturer's instructions. Shorten the moulded hose by 10 mm for Ø 3.5 mm and put on the tank extracting device.

- 1 Tank mounting
- 2 Residual section of Mecanyl fuel line
- 4 Moulded hose Ø 3.5 mm x 4.5 mm
- 5 Universal clip Ø 9mm
- 3 Universal clip Ø 10 mm

**Connecting and disconnecting the fuel line**



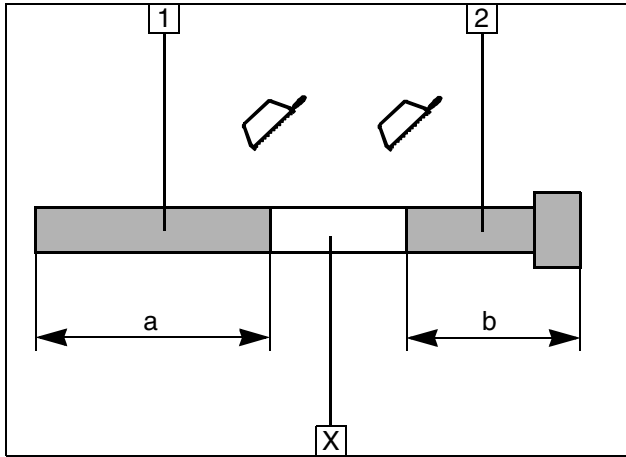
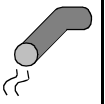


Fuel line from the tank extracting device on the intake side of the metering pump [side without connector].

- 2 Metering pump
- 1 Fuel line
- 3 180° moulded hose, Ø 10 mm hose clamps [2x]



**Connecting the metering pump**

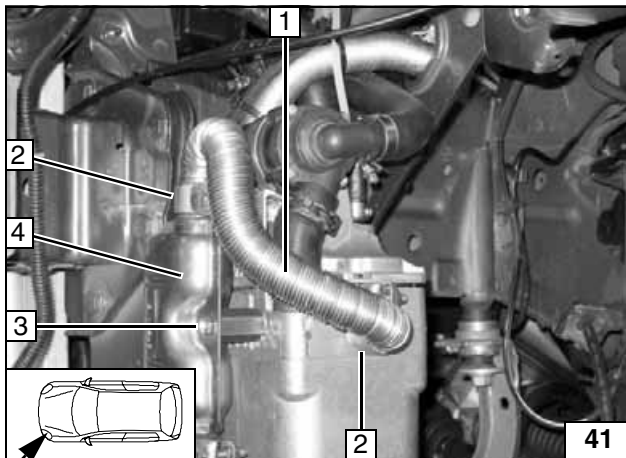


### Exhaust System

- 1 Exhaust pipe  
a = 280mm
- 2 Exhaust end section  
b = 280mm

Dispose of section X

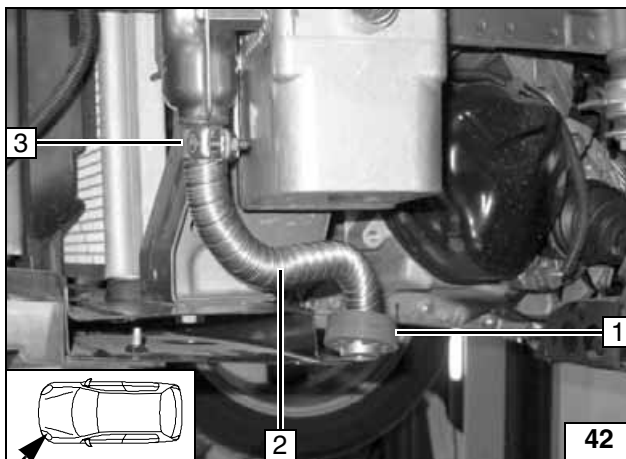
Preparing the exhaust pipe



- 4 Exhaust silencer
- 3 M6x12 bolt, spring washer on spacer nut
- 1 Exhaust pipe
- 2 Hose clamp [2x]

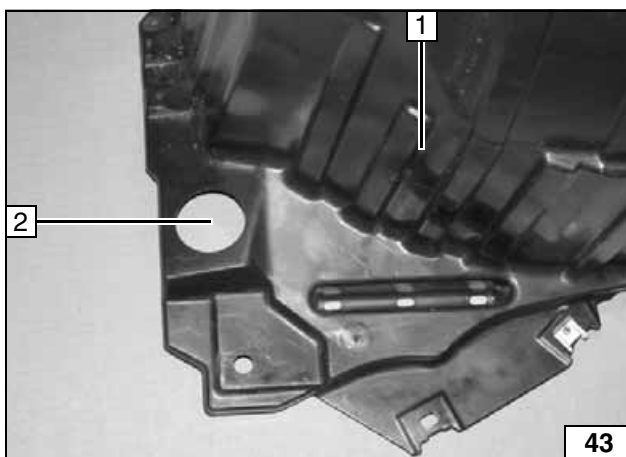


Assembling the silencer



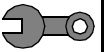
- 2 Exhaust end section
- 3 Hose clamp
- 1 Red (rt) rubber profile with groove

Assembling the exhaust end section



- 1 Wheel-house panel
- 2 Ø 42 mm bore hole

Cutting out the wheel-house panel



## Final Work

### WARNING!

Reassemble disassembled components in reverse order.

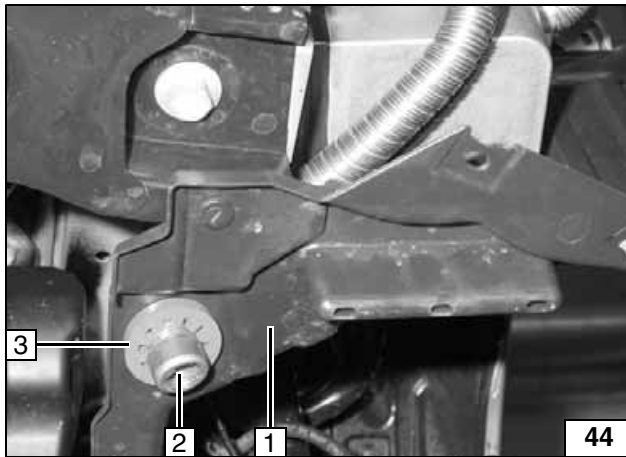
Check that all hose lines, clips, and all electrical connections are securely fastened.

Secure all loose lines using cable clip.

Only use manufacturer-approved coolant.

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

- Connect battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the time switch.
- Set the vehicle heating with automatic air conditioning or without automatic air conditioning according to the "operating instructions for the end customer".
- Check that the auxiliary heating operates properly, see operating instructions / installation instructions.
- Attach the "Switch off auxiliary heating before re-fuelling" sticker onto the left side of the B-pillar.



Align the red (rt) rubber profile **3** flush on the exhaust end section **2**.

**1** Wheel-house panel



**Inserting  
rubber  
profile**

# Webasto

*Feel the drive*

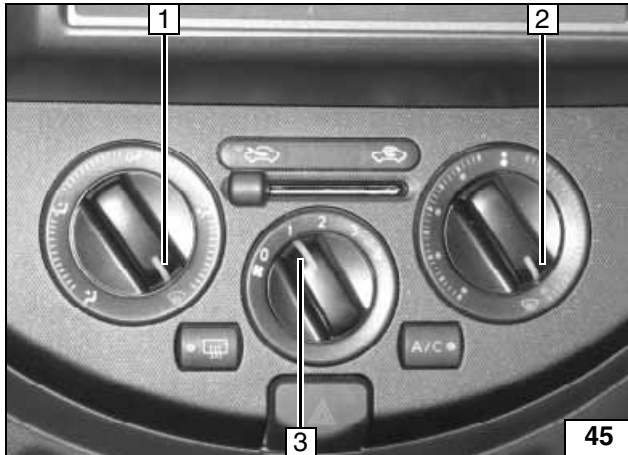
Webasto AG  
Postfach 80 - 82132 Stockdorf - Hotline 0 18 05 / 93 22 78  
Hotfax (0395) 55 92-353 - <http://www.webasto.de>

**Operating instructions for the end customer**

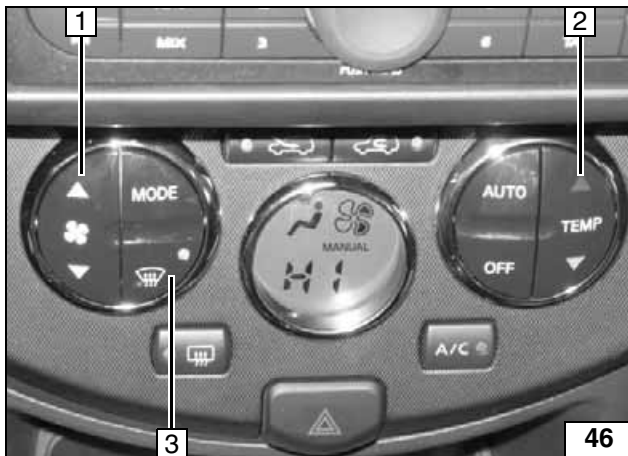
Please remove page and add to the vehicle operating instructions.



Before parking the vehicle, make the following settings:



- 1 Air outlet to windscreen
- 2 Temperature to "max."
- 3 Blower set to level "1" or "2"

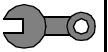


- 3 Air outlet to windscreen
- 1 Blower set to level "1" or "2"
- 2 Temperature to "HI"

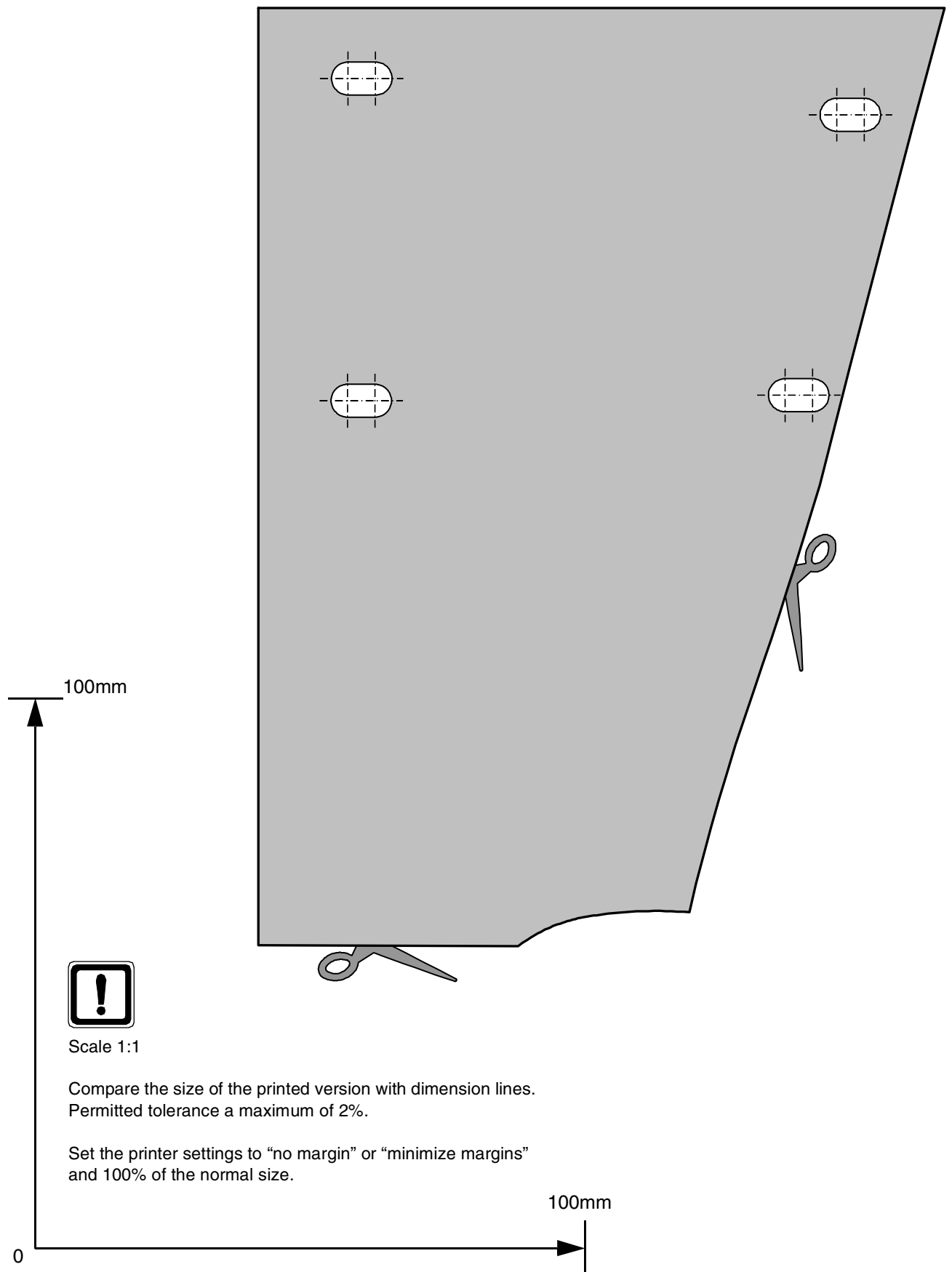
For vehicles with manual air conditioning

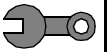
For vehicles with automatic air conditioning





### Bracket for Template





### Tank Extracting Device Template

