Water Heater

Webasto
Feel the drive

***Thermo Top E* Parking Heater** e1 00 0003

***Thermo Top C* Parking Heater** e1 00 0002

***Thermo Top P* Parking Heater** e1 00 0104

Installation documentation

Nissan Note

Diesel
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, specialised tools and equipment are required to install and repair Webasto heating and cooling systems.
Only original Webasto parts must be used. For this, also see the catalog of air and water heater accessories from Webasto.

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

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

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

Ident. No.: 1311203C_EN Fee Euro 10.00

Table of Contents

Validity

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

Engine type	Engine model	Output in kW	Displacement in cm³
K9K	Diesel	50	1461
K9K	Diesel	63	1461
K9K	Diesel with FAP	76	1461

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

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

Heater/Installation Kit

Quantity	Description	Order No.:
1	Nissan-specific delivery scope	See Nissan price list
1	Installation kit Nissan Note / NV200 Diesel	1311200B
1	Heater control	See Nissan price list

Heater recommended for the respective vehicle class:

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

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

Foreword

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

However, the stipulations in the "installation documentation" 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 must be provided with rub protection (cut-open fuel hose)!
Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

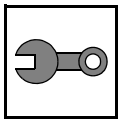
Special Tools

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

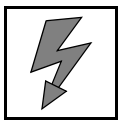
Explanatory Notes on Document

To provide you with a quick overview of the individual working steps, you will find an identification mark on the outside top right corner of the page in question.

Mechanical system

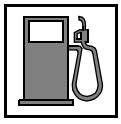


Electrical system

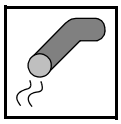


Coolant circuit

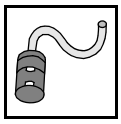
Fuel



Exhaust gas



Combustion air



Special features are highlighted using the following symbols:

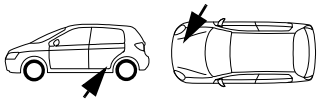
Specific risk of injury or fatal accidents.

Specific risk of damage to components.

Specific risk of fire or explosion.

Reference to general installation instructions of Webas- to 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.

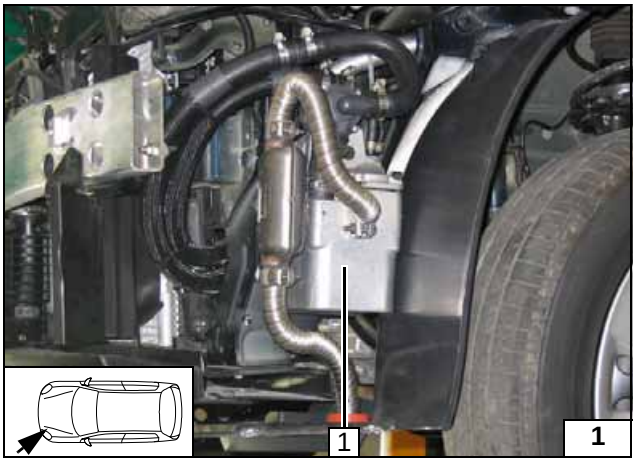
All dimensions are in mm!
Tightening torque of hose clamps = 2.0 + 0.5 Nm!
Tightening torque of Ejot screws, Ejot studs = 10 Nm!

Preliminary Work

WARNING!

- 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.
- Disconnect the battery and remove it completely with the box.
- Remove the air cleaner housing.
- Open fuel tank cap, ventilate tank.
- Close the tank cap again.
- Remove the left front wheel.
- Detach the wheel well trim on the left and right.
- Remove the front bumper cover
- Remove the rear bench seat.
- Open the fuel sender service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the instrument panel trim on the driver's side.
- Remove the fuse and relay carrier on the driver's side.
- Remove the radio and A/C control panel according to the manufacturer's instructions (only with automatic air-conditioning).
- Remove the glove compartment (only with HTM 100).

Remove page 34 "Operating Instructions for End Customer" and attach to the vehicle operating instructions!



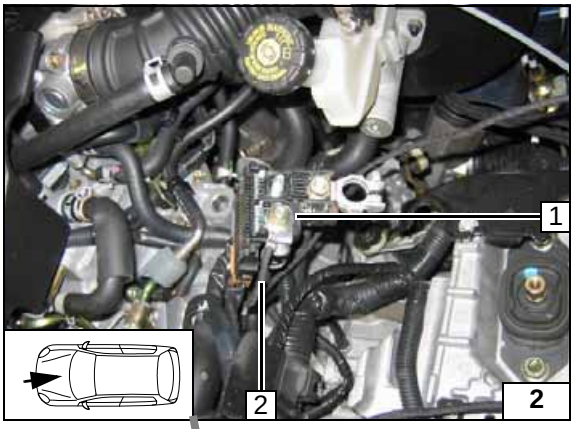
Heater installation location

1 Heater

Electrical Connections

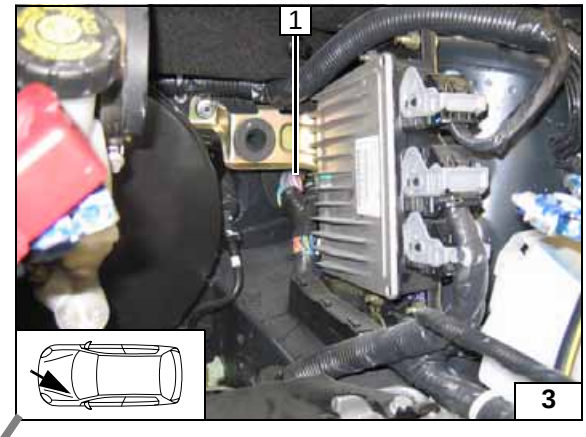
Plus wire

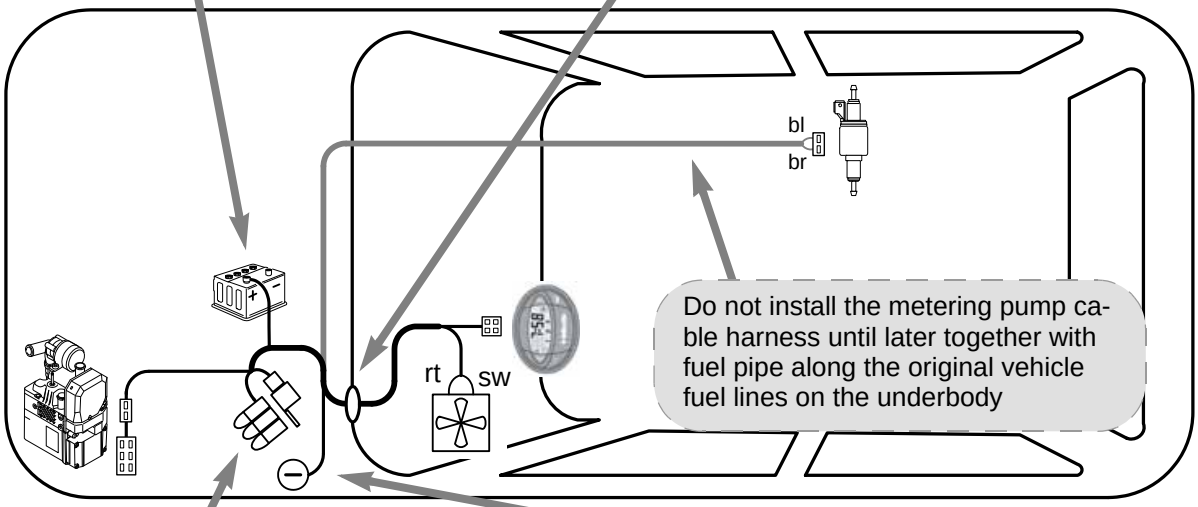
1 Positive connection of positive battery terminal
2 Positive wire



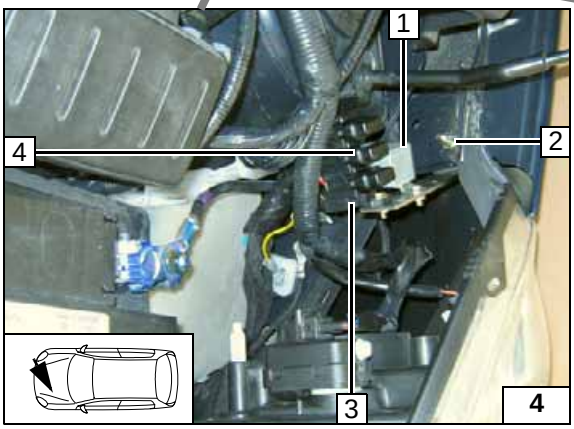
Wiring harness pass through

1 Protective rubber plug





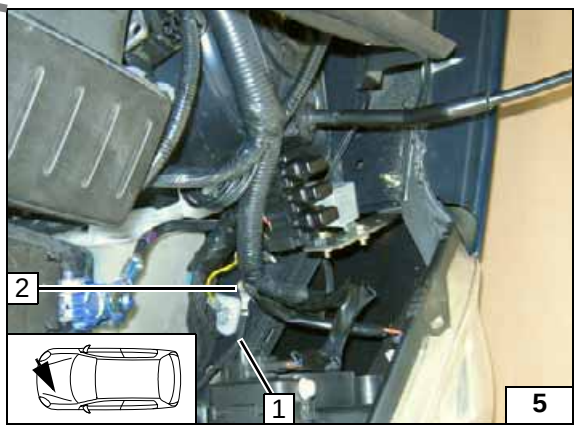
Wiring harness installation diagram



Fuse holder, K3 relay

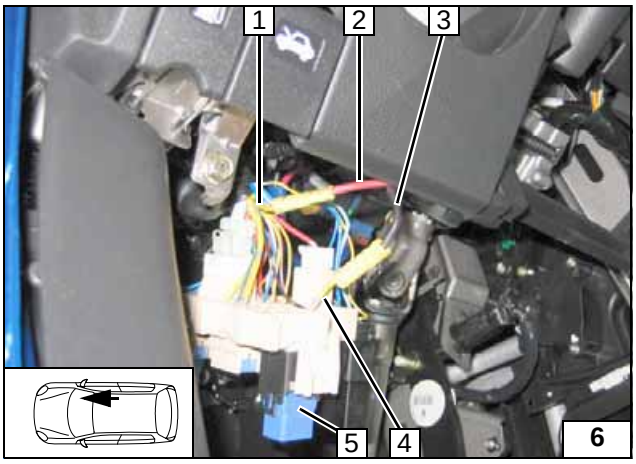
Replace 25 A with 10 A fuse.

1 K3 relay, M5x16 bolt, washer, nut
2 Mount M6x20 bolt, angle bracket, flanged nut in existing hole
4 Fuse holder retaining plate, M4x16 bolt, washers, nut
3 F1-3 fuses mounted



Ground wire

1 Ground wire
2 Original vehicle ground support point

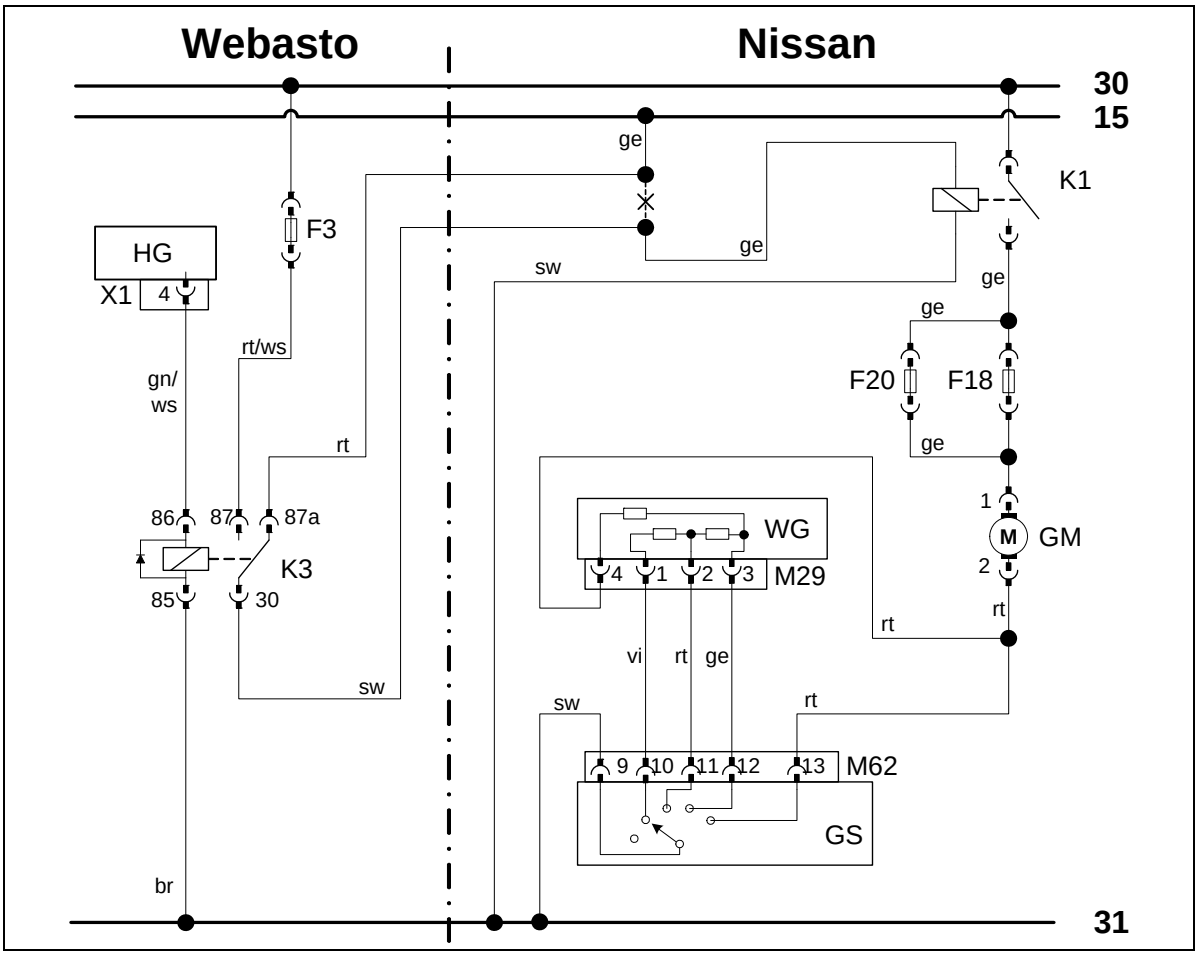


Fan controller for manual air conditioning

Connection to fan relay K1 **5** behind fuse and relay carrier.
Produce connections as shown in wiring diagram.

1 Yellow (ge) wire (Terminal 15)
2 Red (rt) wire from K3/87a
3 Black (sw) wire from K3/30
4 Yellow (ge) wire to fan relay K1

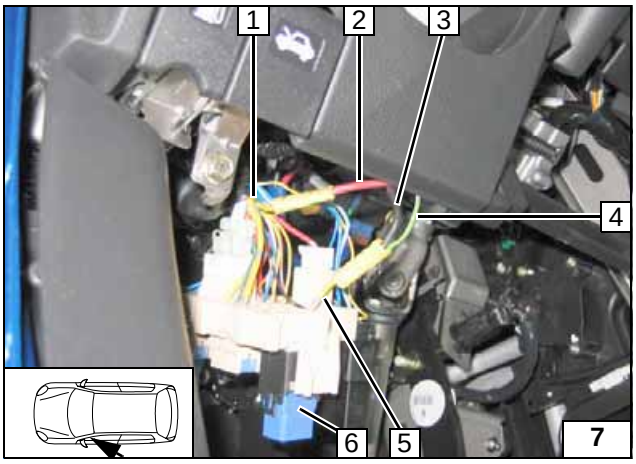
Connecting fan relay



Wiring diagram for manual air conditioning

Webasto components		Components Nissan Note		Colours and symbols	
HG	Heater TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater connector	K1	Fan relay	ws	white
K3	Fan relay	GS	Fan switch	sw	black
F3	Replace 25 A with 10 A fuse.	M62	15-pin connector GS	br	brown
		WG	Resistor group	gn	green
		M29	4-pin connector WG	ge	yellow
		F18	15 A fuse	vi	violet
		F20	15 A fuse		
				X	Cutting point
				Wiring colours may vary.	

Legend



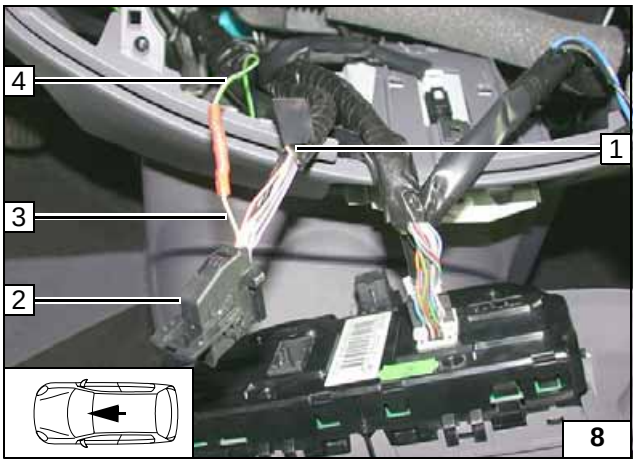
Automatic air-conditioning fan controller

Version 1

Connecting fan relay

Connection to fan relay K1 **6** behind fuse and relay carrier.
Produce connections as shown in wiring diagram.

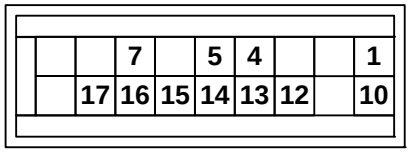
1 Yellow (ge) wire (Terminal 15)
2 Red (rt) wire from K3/87a
3 Black (sw) wire from K3/30
4 Additional green/white (gn/ws) wire from K1/1
5 Yellow (ge) wire to fan relay K1



Connecting A/C control panel

Connection to 18-pin connector M64 **2** from air conditioning control.
Produce connection as shown in wiring diagram.

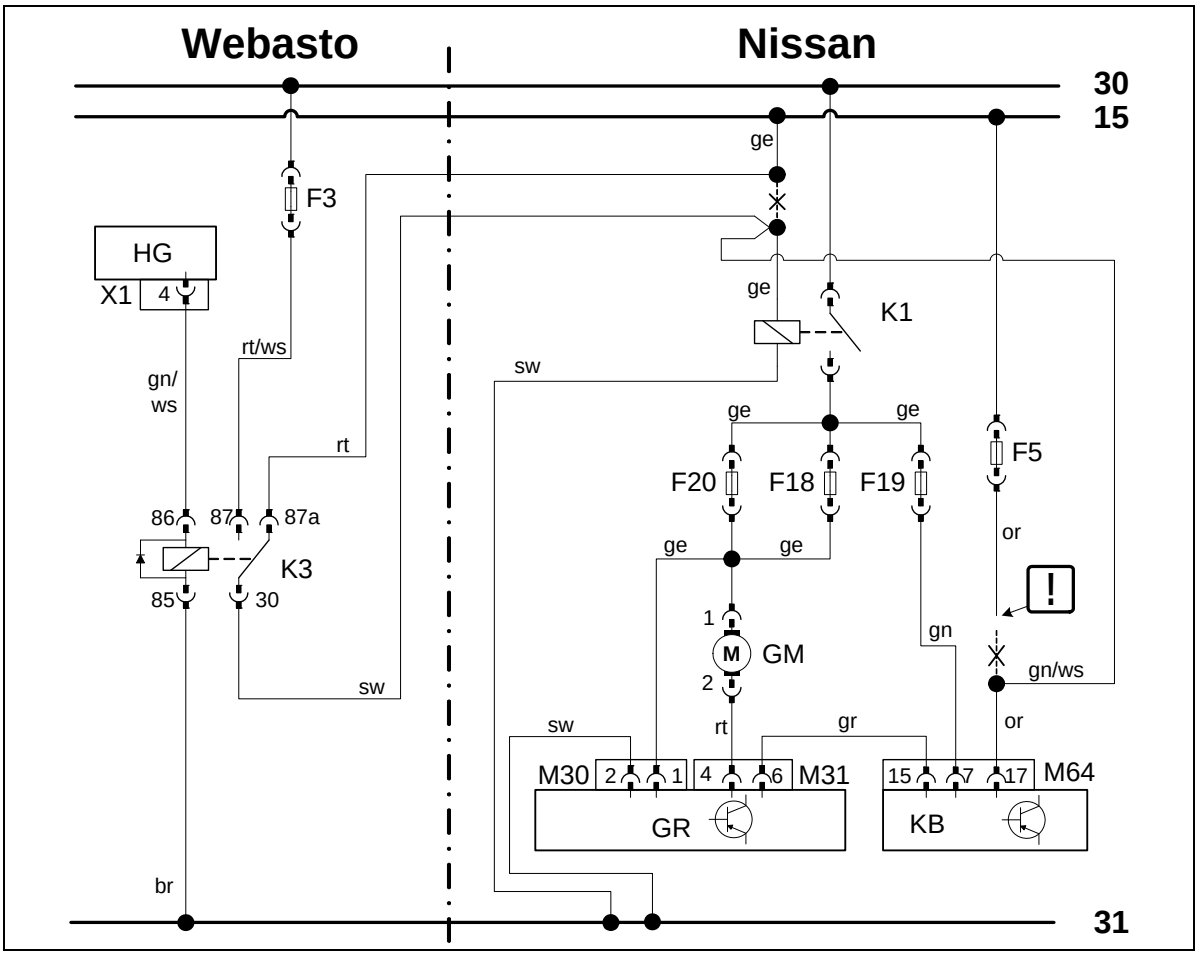
1 Insulate orange (or) wire of fuse F5 and tie back
3 Orange (or) wire to M64/17connector
4 Additional green/white (gn/ws) wire



Connector M64

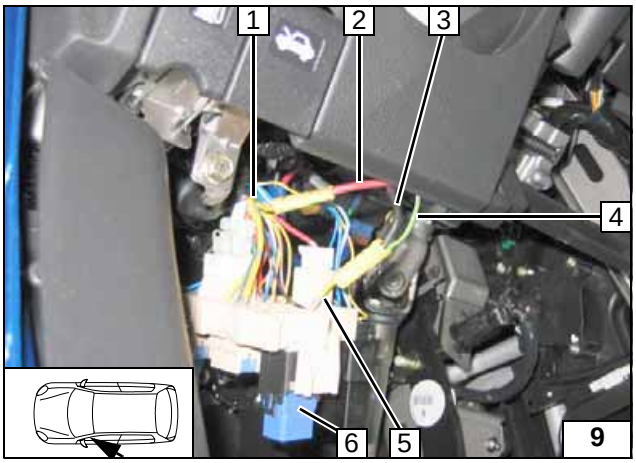
View of connector M64 on wire side.

Wiring diagram for automatic air-conditioning Version 1



Legend

Webasto components		Components Nissan Note		Colours and symbols	
HG	Heater TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater connector	K1	Fan relay	ws	white
K3	Fan relay	GR	Fan controller	sw	black
F3	Replace 25 A with 10 A fuse.	M30	2-pin connector GR	br	brown
		M31	6-pin connector GR	gn	green
		KB	A/C control panel	ge	yellow
		M64	18-pin connector KB	or	orange
		F5	10 A fuse		
		F18	15 A fuse	**X**	Cutting point
		F19	10 A fuse	!	Insulate wire ends and tie back
		F20	15 A fuse		
				Wiring colours may vary.	

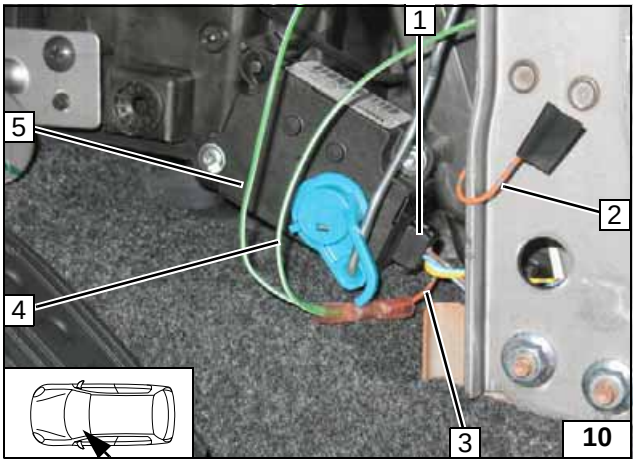


Version 2

Connection to fan relay K1 **6** behind fuse and relay carrier.
Produce connections as shown in wiring diagram.

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

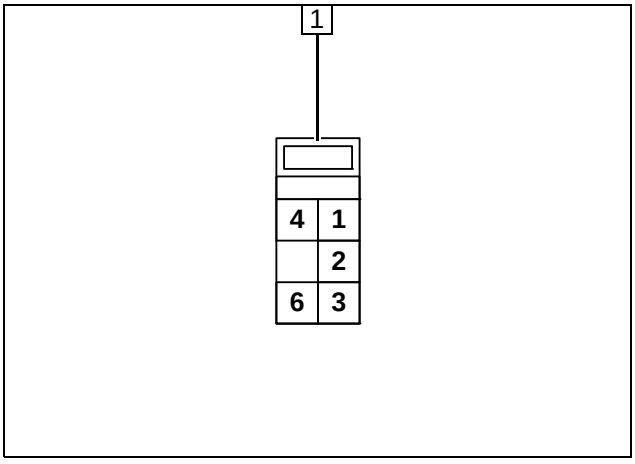
Connecting fan relay



Connection on 6-pin connector M51 **1** from temperature valve motor. Insulate wire or **2** fuse F2 and tie back.
Produce connections as shown in wiring diagram.

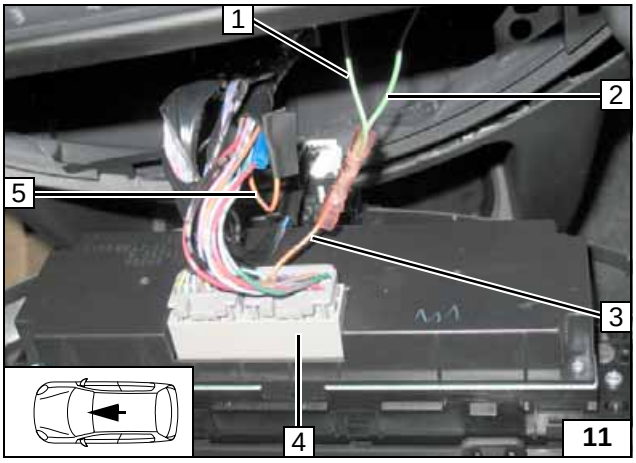
3 Orange (or) wire of connector M51 Pin 2
4 Additional green/white (gn/ws) wire ②
5 Additional green/white (gn/ws) wire ①

Connection on temperature valve motor



1 Connector M51 on line side

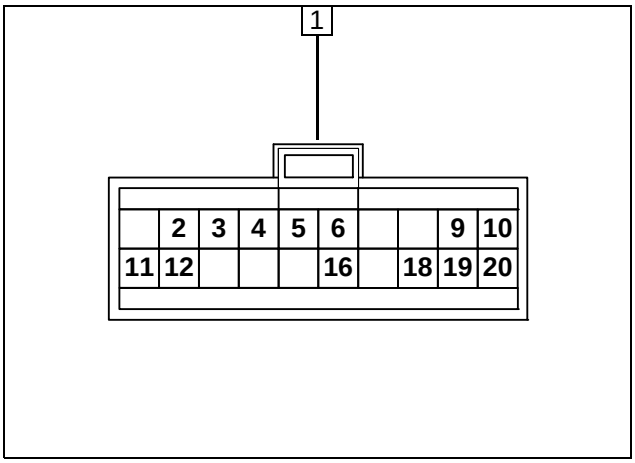
Connector M51



Connection to 20-pin connector M90 **4** from air conditioning control. Insulate orange (or) wire **5** of fuse F2 and tie back.
Produce connection as shown in wiring diagram.

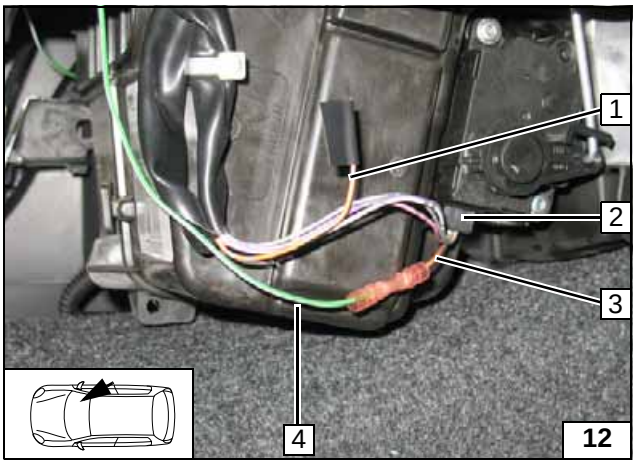
1 Additional green/white (gn/ws) wire ②
2 Additional green/white (gn/ws) wire ③
3 Orange (or) wire to connector M90/18

Connecting A/C control panel



1 M90 connector on line side

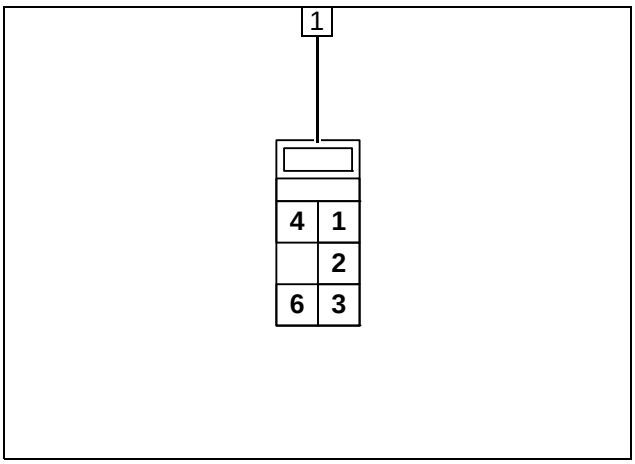
Connector M90/91



Connection on 6-pin connector M50 **2** from air distribution valve motor. Insulate wire or **1** fuse F2 and tie back.
Produce connections as shown in wiring diagram.

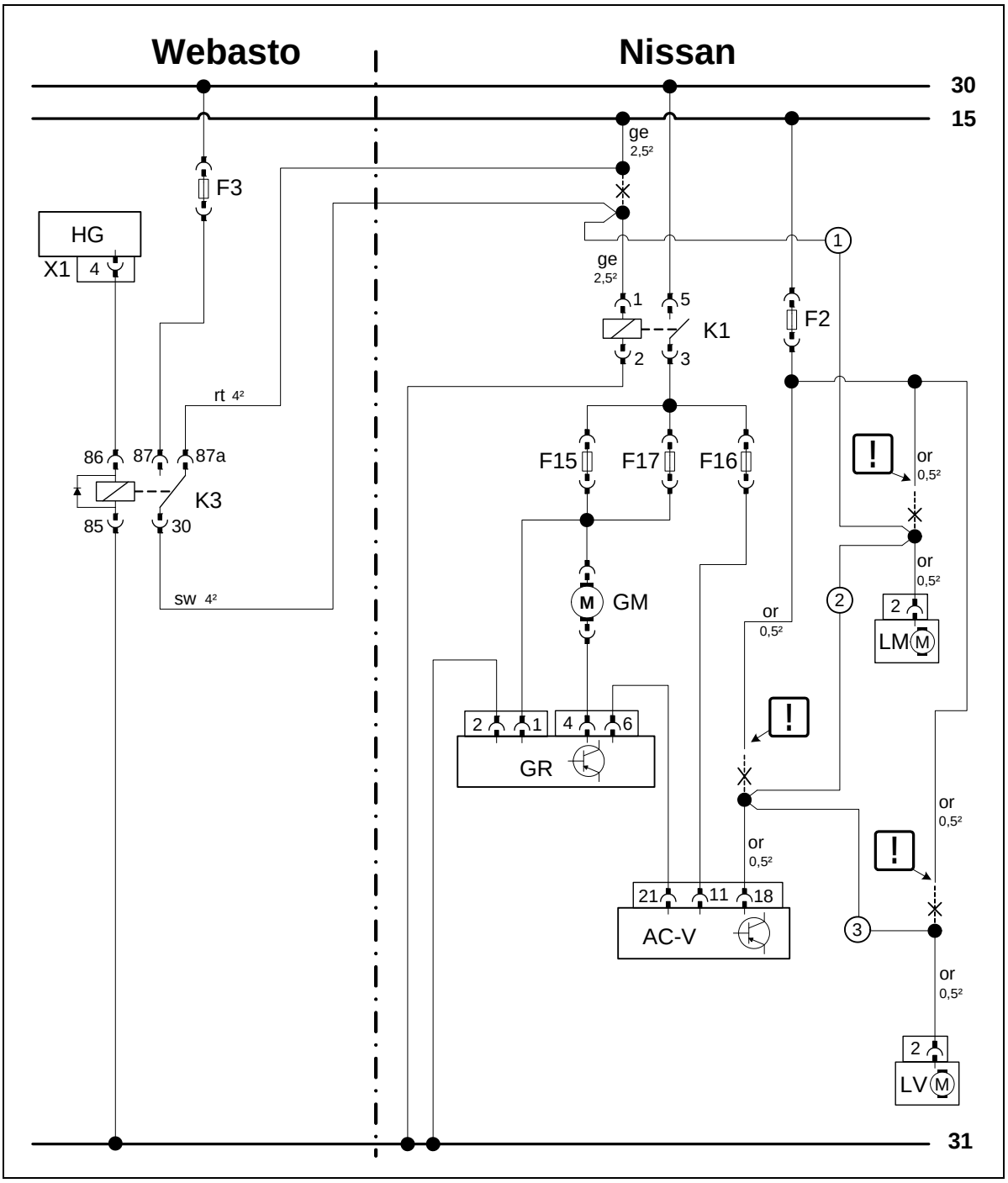
3 Orange (or) wire of connector M50, Pin 2
4 Additional green/white (gn/ws) wire ③

Connection of air-distribution valve motor



1 Connector M50 on line side

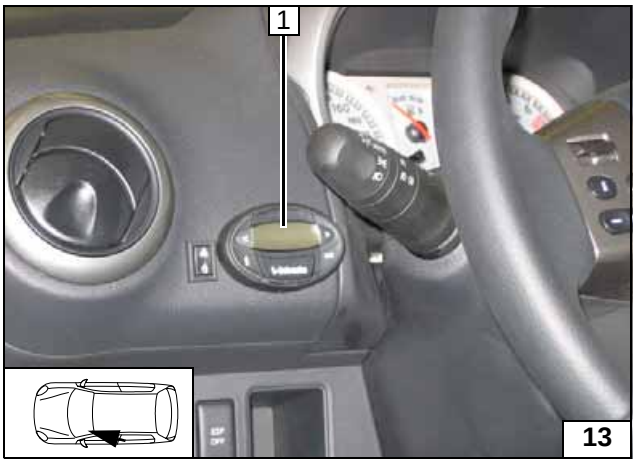
M50 connector



Wiring diagram for automatic air-conditioning Version 2

Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater connector	J1	Fan relay	ws	white
K3	Fan relay	GR	Fan controller	sw	black
F3	Replace 25 A fuse with 10 A fuse	AC-V	AC booster	or	orange
		F2	10 A fuse	ge	yellow
		F15	15 A fuse	gn	green
		F16	10 A fuse		
		F17	15 A fuse	!	Insulate wire end and tie back
		LM	Temperature valve motor		
		LV	Air distribution valve motor	X	Cutting point
				Wiring colours may vary.	

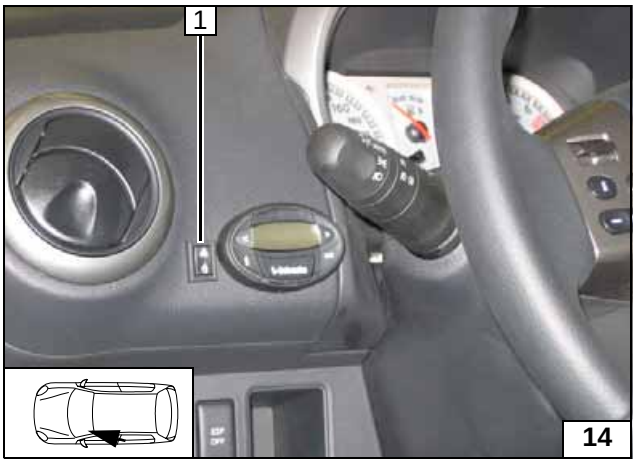
Legend



Digital timer

1 Digital timer

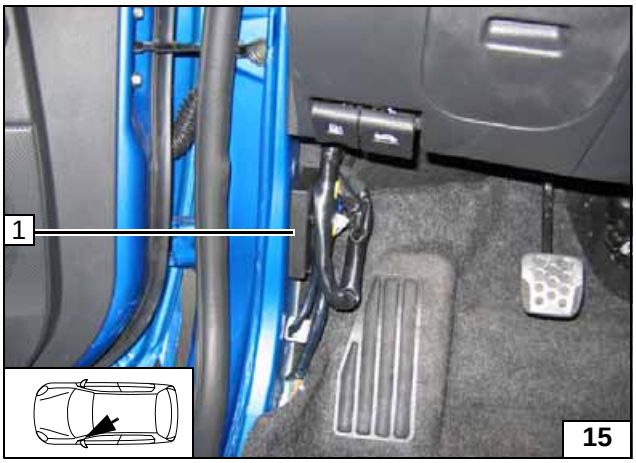
Installing digital timer



Summer/winter switch option

1 12 mm dia. hole, summer/winter switch

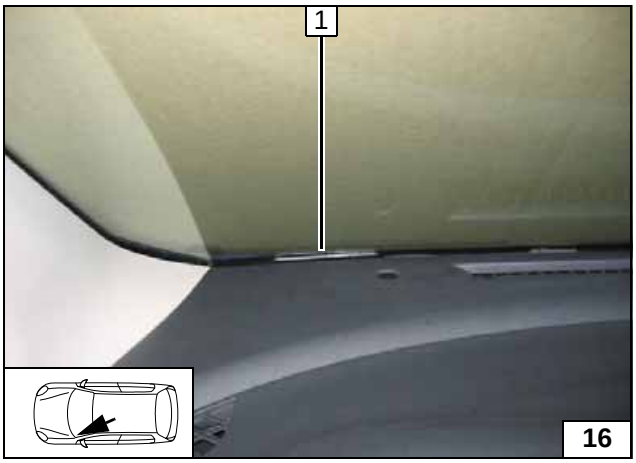
Installing summer/winter switch



Remote option (Telestart)

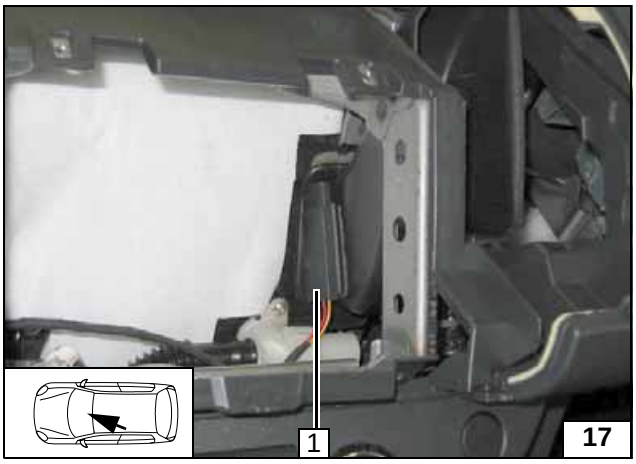
Fasten receiver **1** on left-hand A-pillar with suitable means

Installing receiver



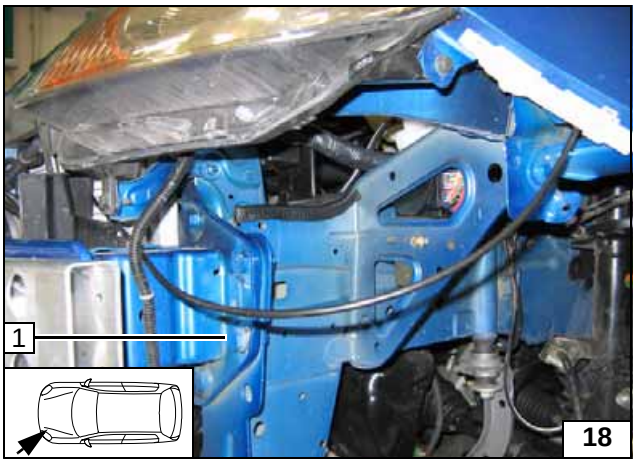
1 Antenna

Installing antenna



Temperature sensor T100 HTM

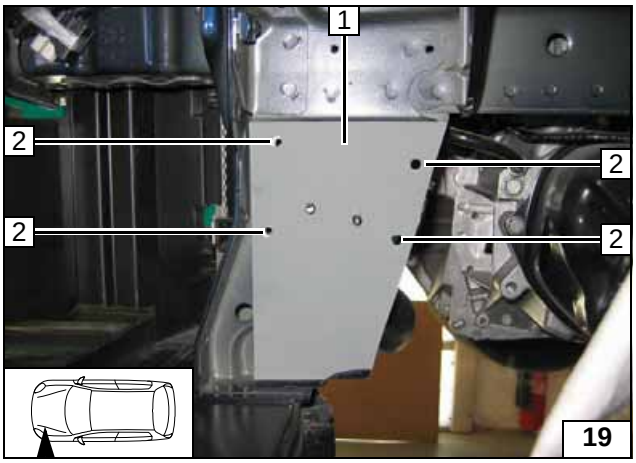
Fasten temperature sensor **1** on rear glove compartment with suitable means



Preparing installation location

Insert three washers at position **1** under original vehicle bolt.

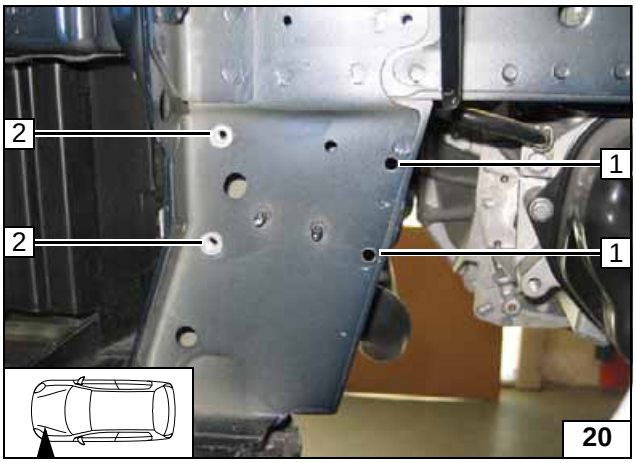
Inserting washers



50 and 63 kW

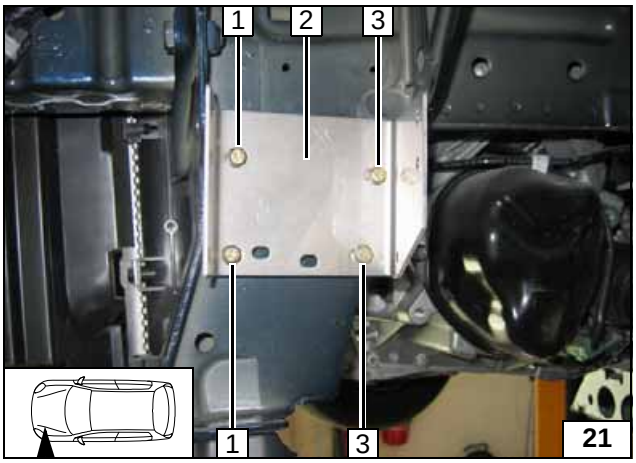
1 Template (see appendix)
2 Copy hole pattern [4x]

Copying hole pattern



1 Drill 7 mm dia. hole [2x]
2 9.1 mm dia. hole; rivet nut [2x each]

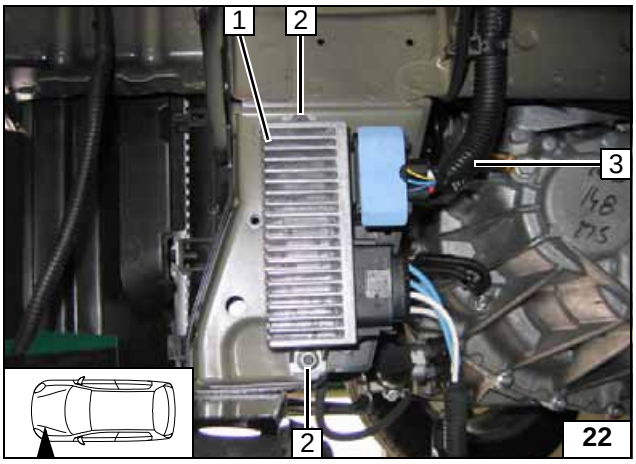
Installing rivet nut



Insert one large diameter washer and 15 mm shim each between body and bracket **2** at position **3** and one 15 mm shim at position **1**.

1 M6x40 bolt, spring lockwasher, washer, 15 mm shim on prepared rivet nut [2x each]
3 M6x40 bolt, spring lockwasher, washer, 15 mm shim, large diameter washer, flanged nut [2x each] at prepared hole

Installing bracket

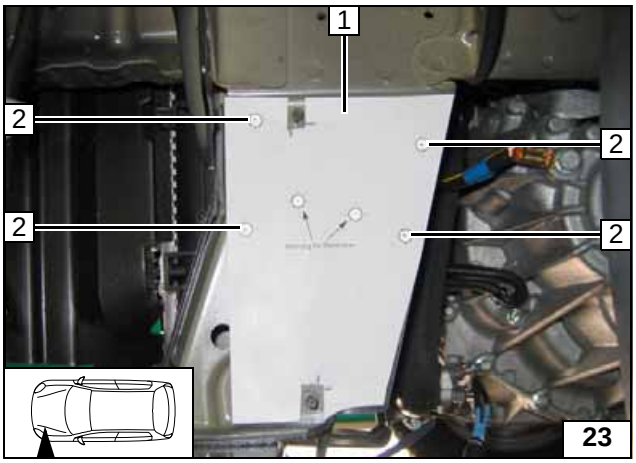


76 kW with FAP

Remove control unit **1** and route wiring harness **3** in engine compartment in front of transmission.

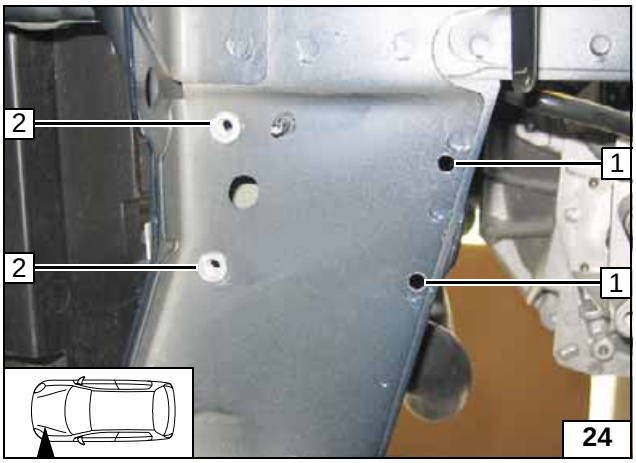
2 Original vehicle nut [2x] will be reused

Removing control unit



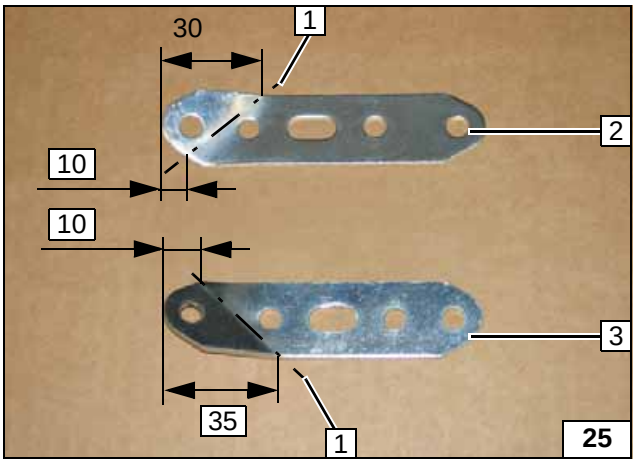
1 Template (see appendix)
2 Copy hole pattern [4x]

Copying hole pattern



1 Drill 7 mm dia. hole [2x]
2 9.1 mm dia. hole; rivet nut [2x each]

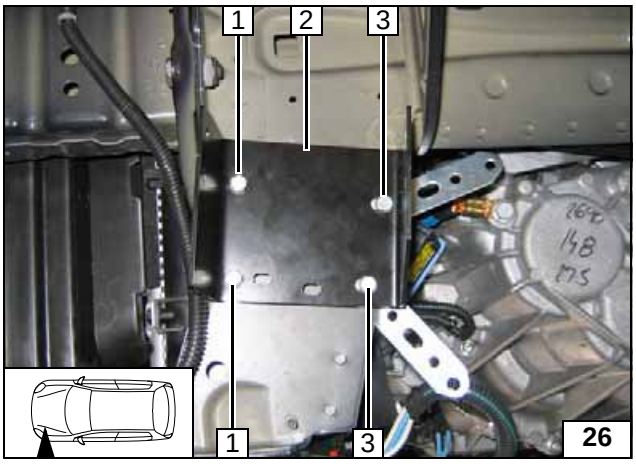
Installing rivet nut



Angle down perforated bracket **A** and **B** by approx. 15°.

1 Bending line [2x]
2 Perforated bracket A
3 Perforated bracket B

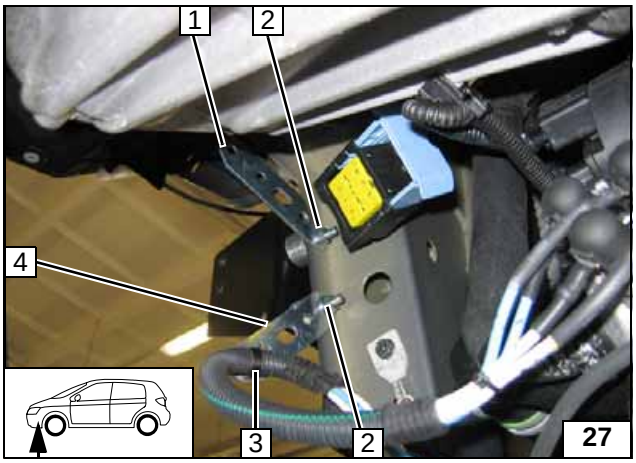
Preparing perforated brackets



Insert one large diameter washer and 15 mm shim each between body and bracket **2** at position **3** and one 15 mm shim at position **1**.

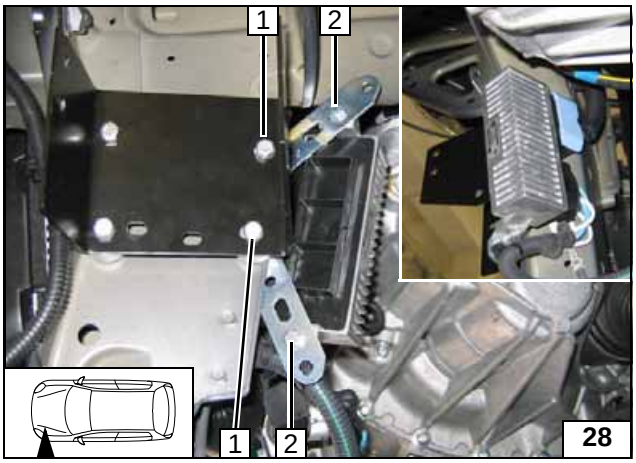
1 M6x40 bolt, spring lockwasher, washer, 15 mm shim on prepared rivet nut [2x each]
3 M6x40 bolt, spring lockwasher, washer, 15 mm shim, large diameter washer [2x each] at prepared hole (see following illustration for fastening)

Installing bracket



1 Perforated bracket A
2 M6 flanged nut [2x]
3 Clip with wiring harness fastened on perforated bracket
4 Perforated bracket B

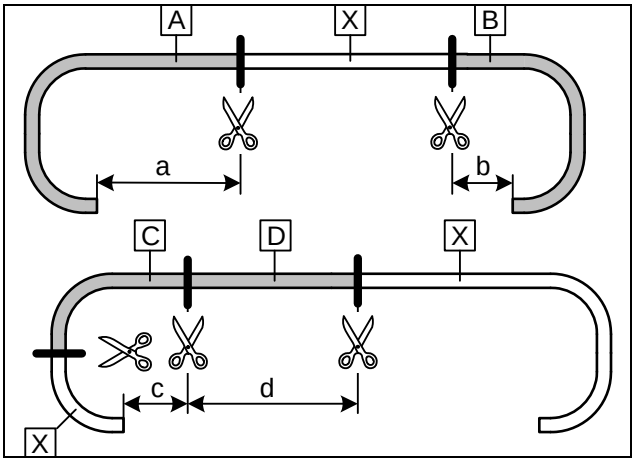
Perforated brackets loosely premounted



Align control unit and perforated brackets, then mount wiring harnesses. Tighten bolts at position **1**.

2 M6x20 bolt, original vehicle M6 flanged nut [2x each]

Installing control unit



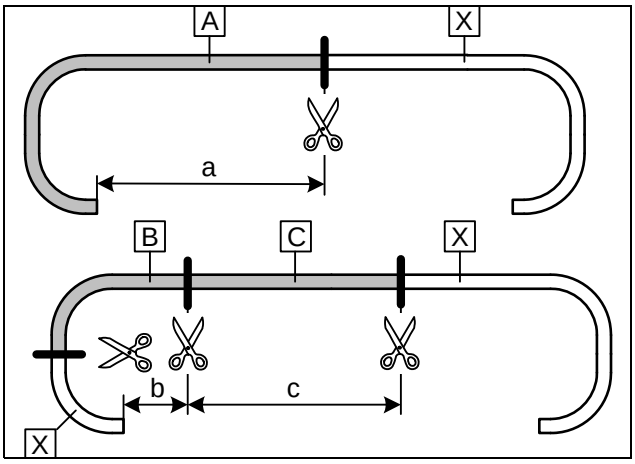
Preparing heater

50 and 63 kW

a = 1000
b = 50
c = 50
d = 1000

Discard section **X**

Cutting coolant hoses to length

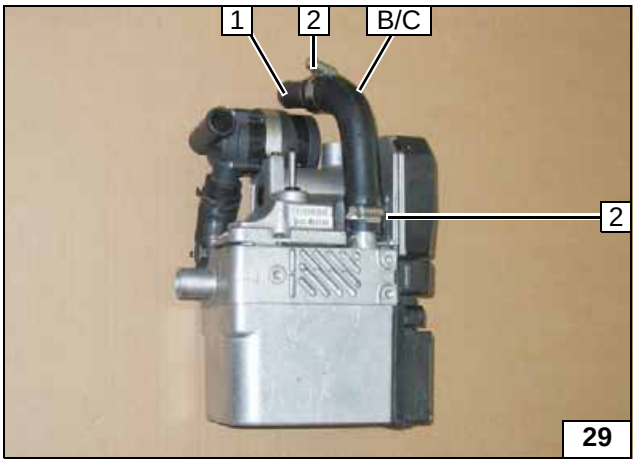


76 kW with FAP

a = 930
b = 50
c = 950

Discard section **X**

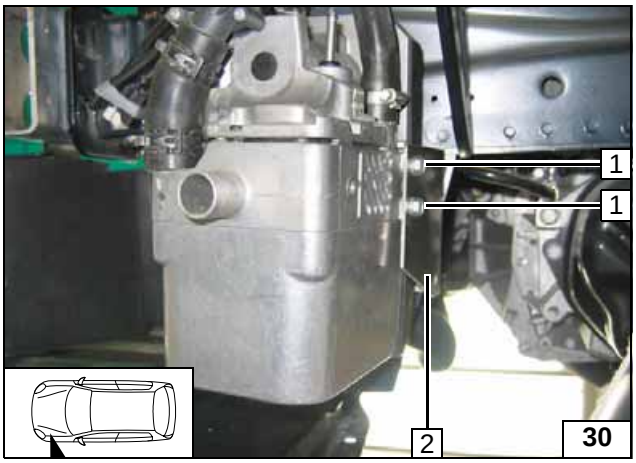
Cutting coolant hoses to length



All vehicles

1 20x20 connecting pipe
2 27 mm dia. hose clamp [2x]

Preassembling hose B/C on heater

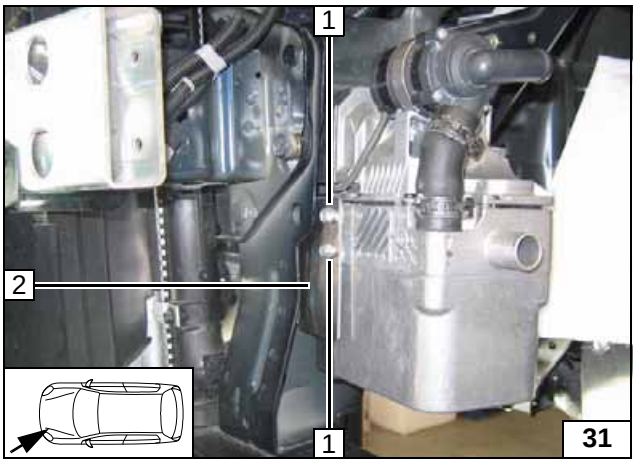


Installing heater

Connect wiring harness for heater before installation.

1 Ejot screw [2x]
2 Bracket

Installing heater

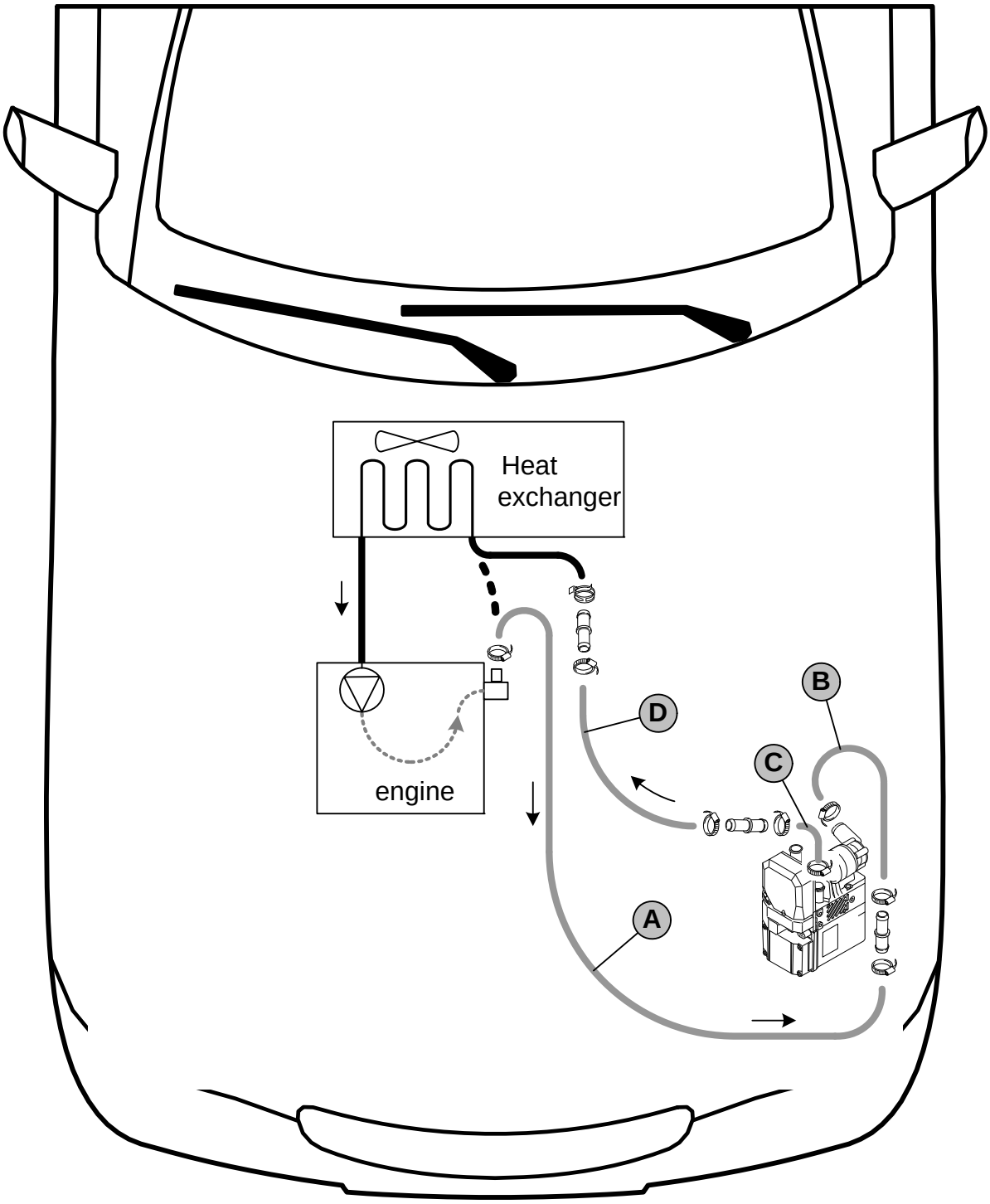


1 Ejot screw [2x]
2 Bracket

Installing heater

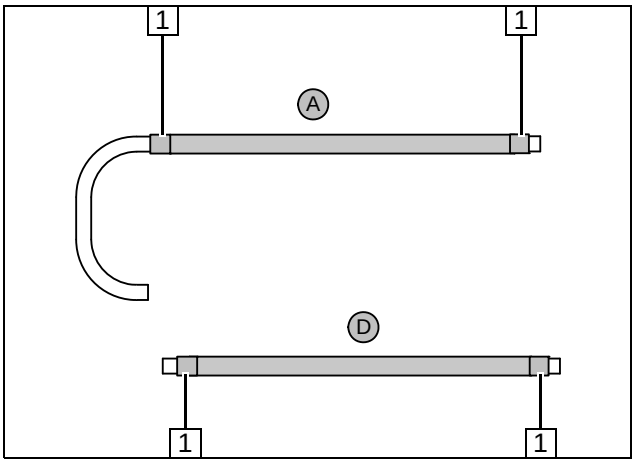
Coolant circuit 50 and 63 kW

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 must be filled with coolant. The connection should be "inline" based on the following diagram:



Hose routing diagram

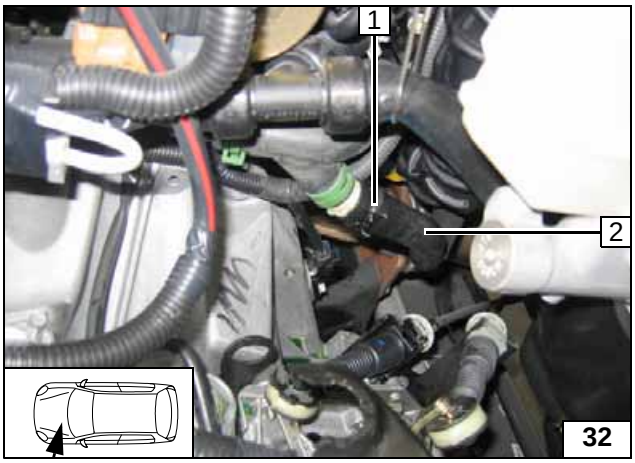
All hose clamps = 20-27 mm dia.! Original vehicle spring clip !
All connecting pipes = dia. 20x20.



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

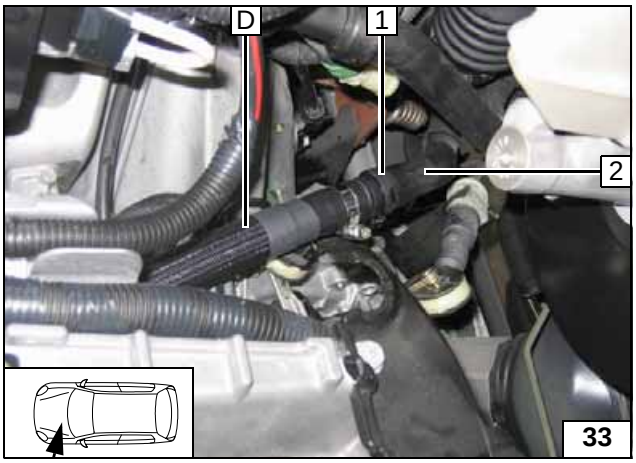
1 25 mm heat shrink plastic tubing [4x]

Preparing coolant hoses



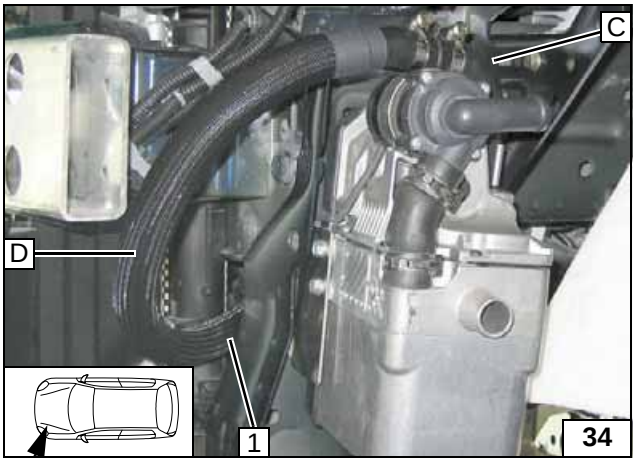
Disconnect hose section of heat exchanger inlet **2** on connection piece of engine outlet. Spring clip **1** will be reused.

Cutting point



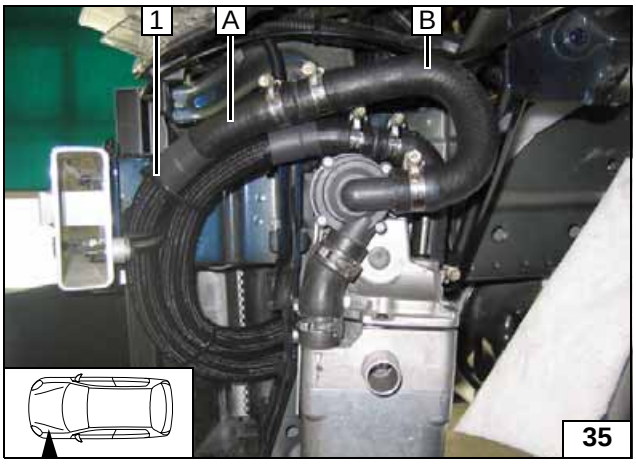
1 Original vehicle spring clip
2 Hose on heat exchanger inlet

Connection on heat exchanger inlet



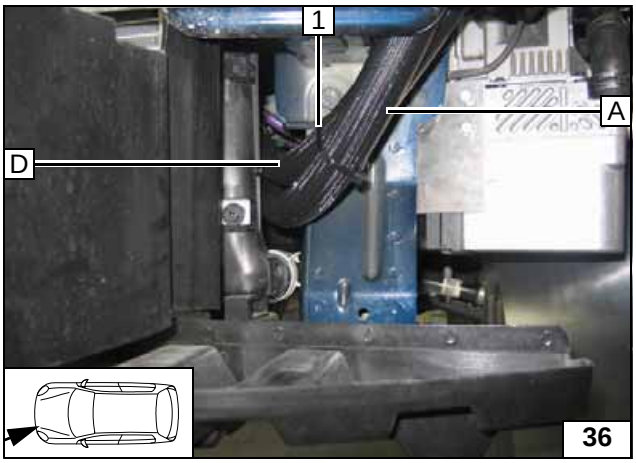
Route hose **D** through original vehicle pass through **1** between radiator and cross member to heater.

Connection on heater



1 Cable tie

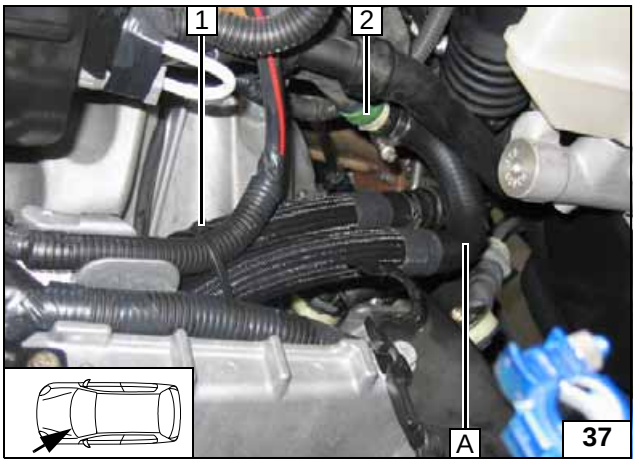
Connection on heater



Route hose **A** under hose **D** to cutting point.

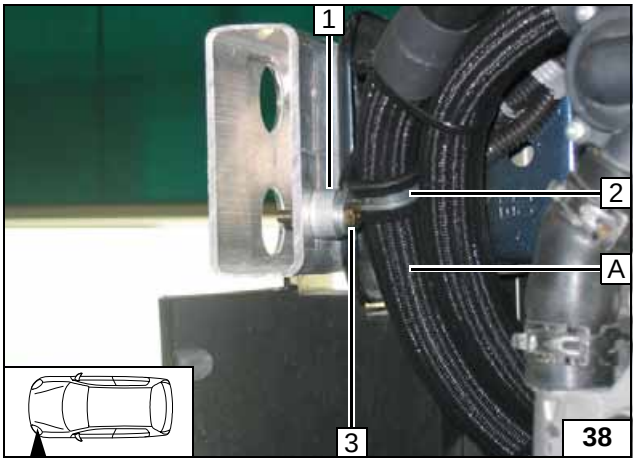
1 Cable tie

Routing into engine compartment



1 Cable tie
2 Connection piece for engine outlet

Connection on engine outlet

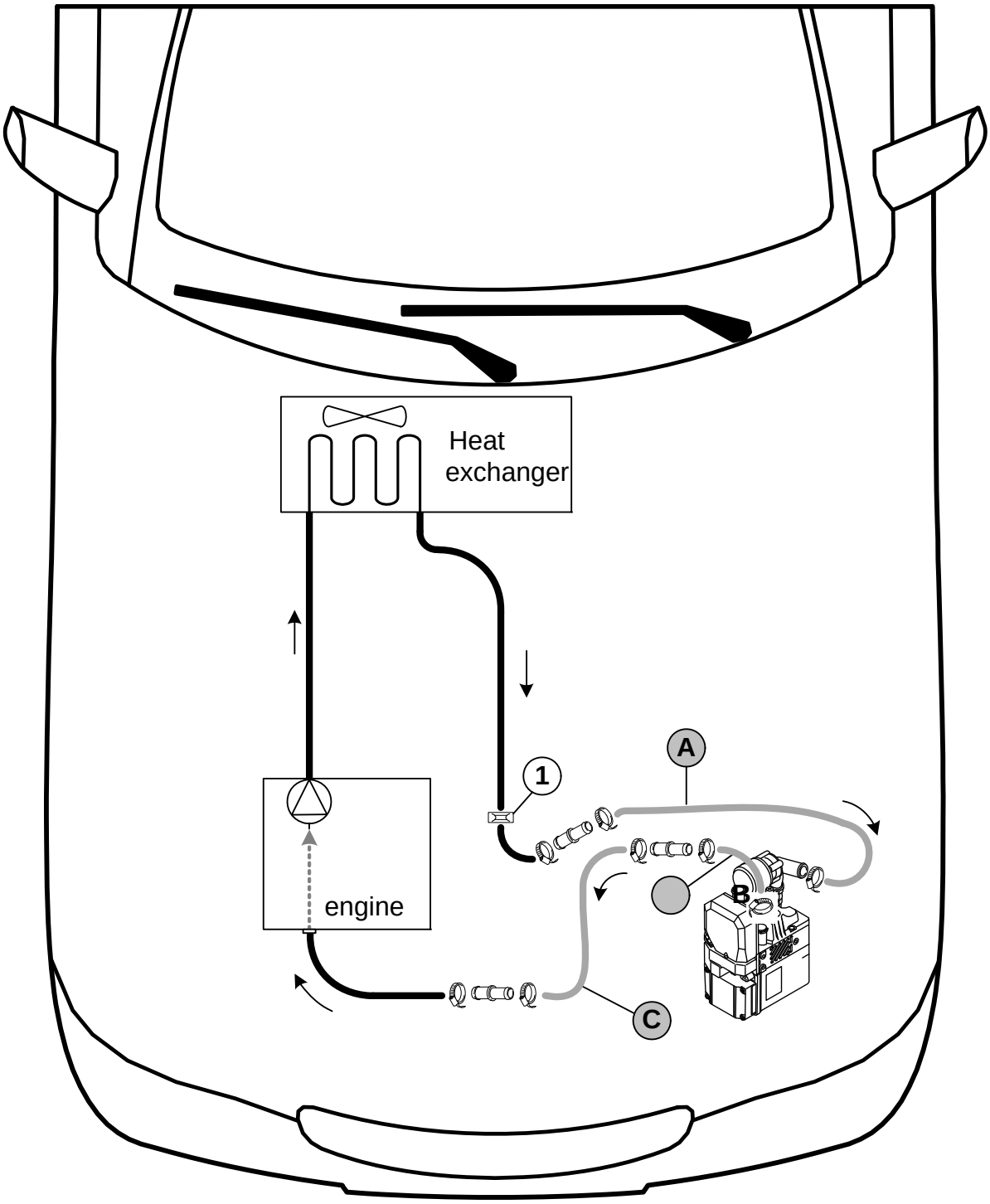


1 10 mm shim
2 Rubber-coated pipe clamp
3 Mount M6x30 bolt, flanged nut in existing hole in bumper

Fastening hose A

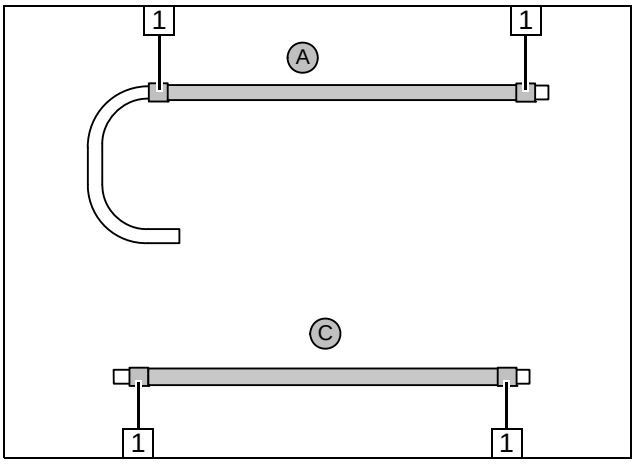
Coolant circuit 76 kW with FAP

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 must be filled with coolant. The connection should be "inline" based on the following diagram:



Hose routing diagram

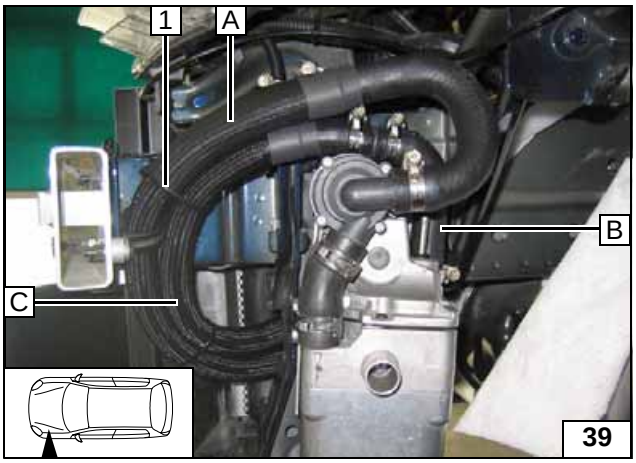
All hose clamps = 20-27 mm dia.! **1** = Original vehicle spring clip !
All connecting pipes = dia. 20x20.



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

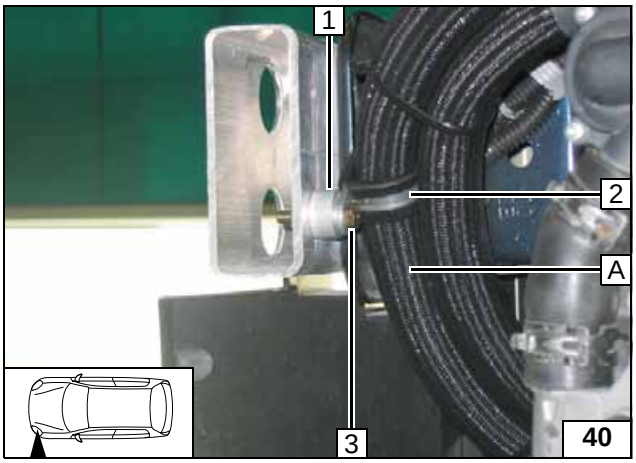
1 25 mm heat shrink plastic tubing [4x]

Preparing coolant hoses



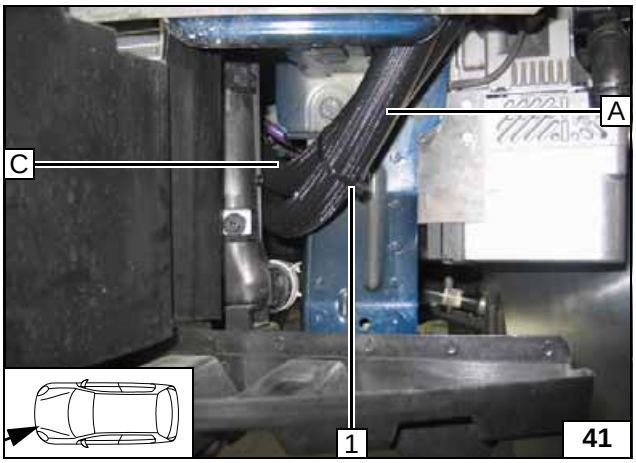
1 Cable tie

Connection on heater



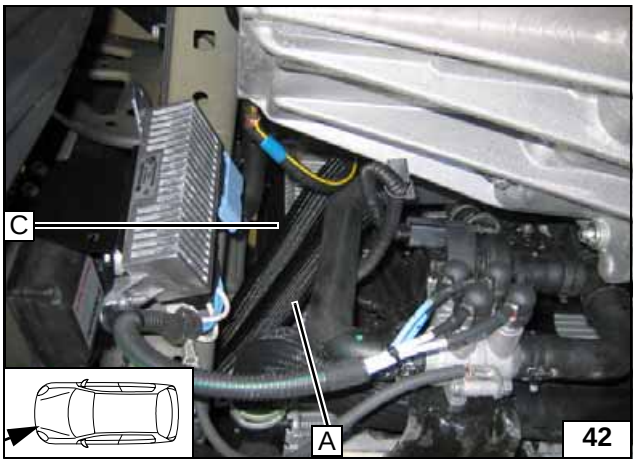
1 10 mm shim
2 Rubber-coated pipe clamp
3 Mount M6x30 bolt, flanged nut in existing hole in bumper

Fastening hose A



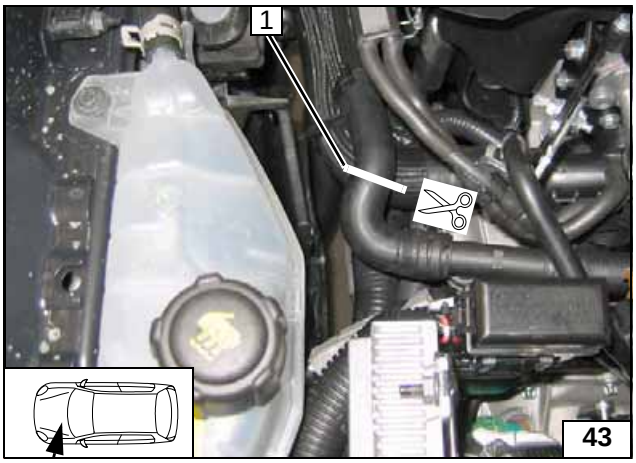
1 Cable tie

Routing into engine compartment



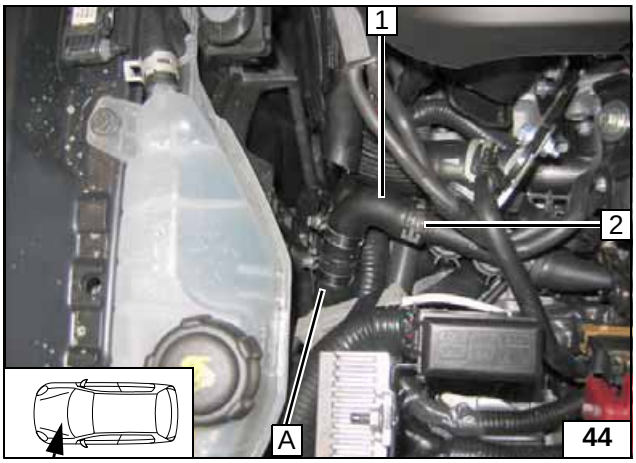
Route hose **A** and **C** to cutting point. Ensure sufficient spacing to radiator fan impeller.

Routing into engine compartment



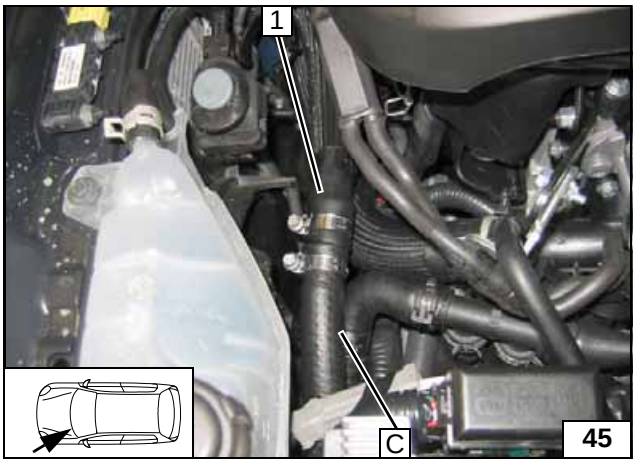
1 Cutting point

Cutting point



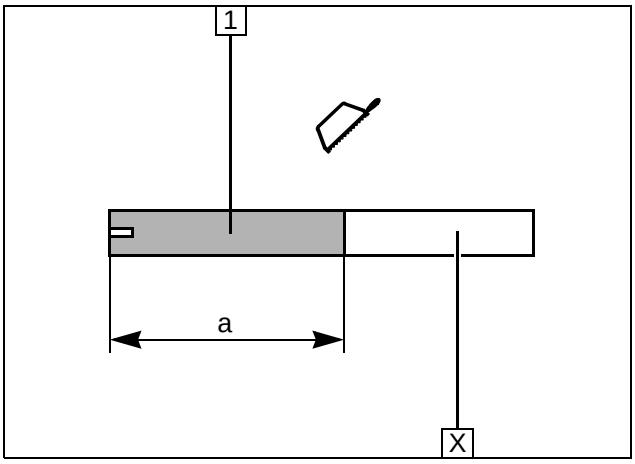
1 Hose to heat exchanger outlet turned
2 Original vehicle spring clip

Connection on heat exchanger outlet



1 Hose on engine inlet

Connection on engine inlet

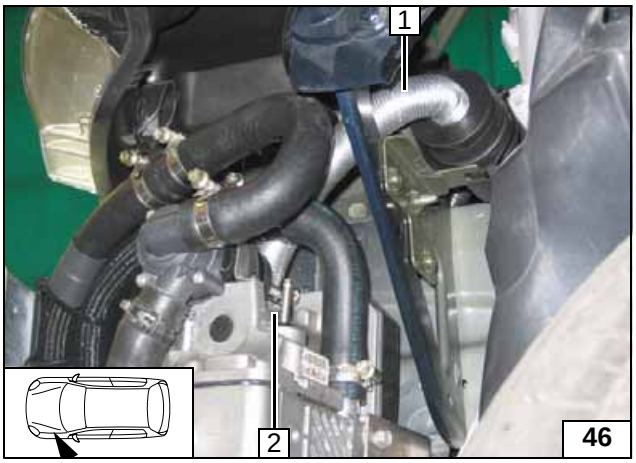


Combustion air

1 Combustion air pipe
a = 230

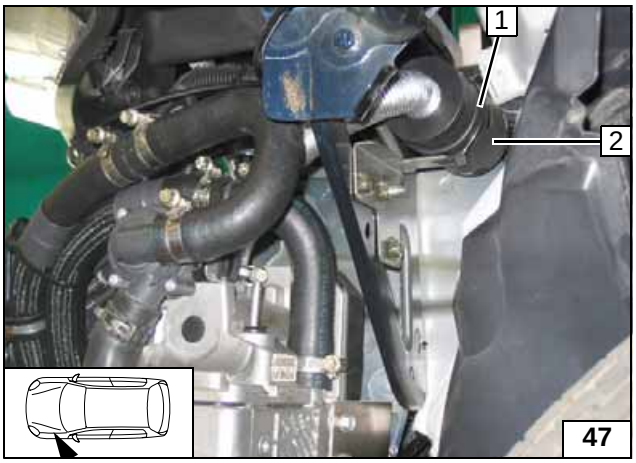
Discard section **X**

Cutting combustion air pipe to length



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

Installing combustion air pipe



Fasten muffler **2** at original vehicle hole with cable tie **1**.

Installing muffler

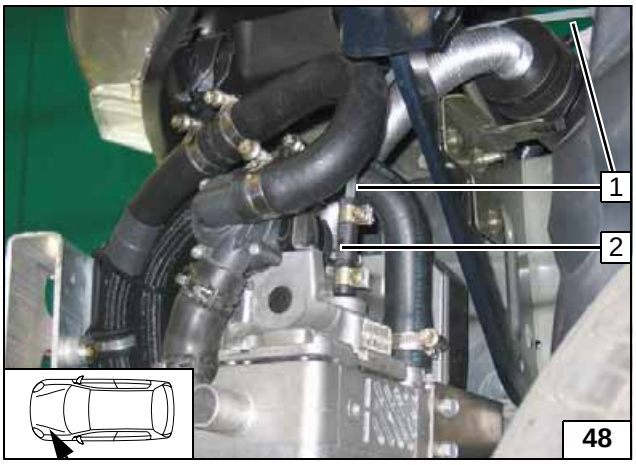
Fuel

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.

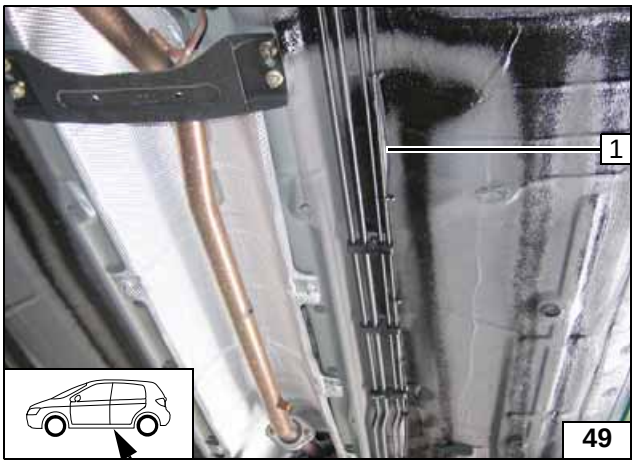
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.
Mount the fuel line and wiring harness with rub protection on sharp edges.

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



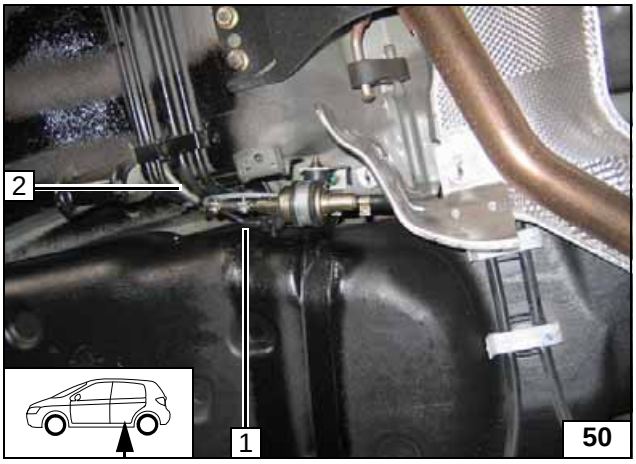
1 Fuel line
2 Hose section, 10 mm dia. hose clamp [2x]

Connection on heater



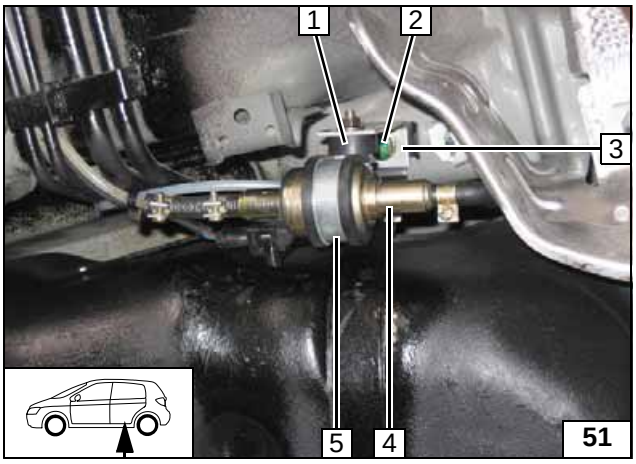
1 Fuel line, metering pump wiring harness

Routing on underbody



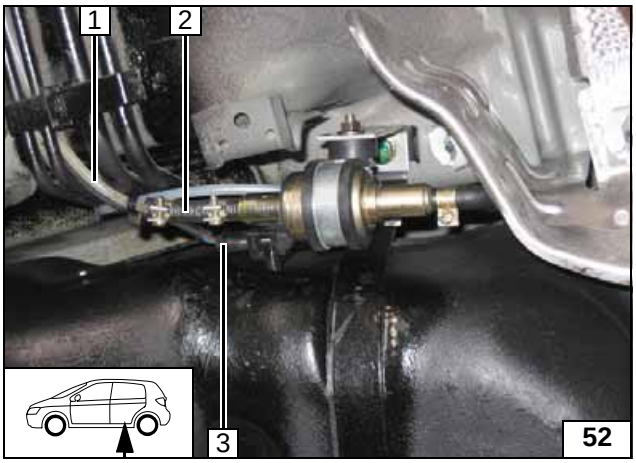
1 Metering pump wiring harness
2 Fuel line

Routing on underbody



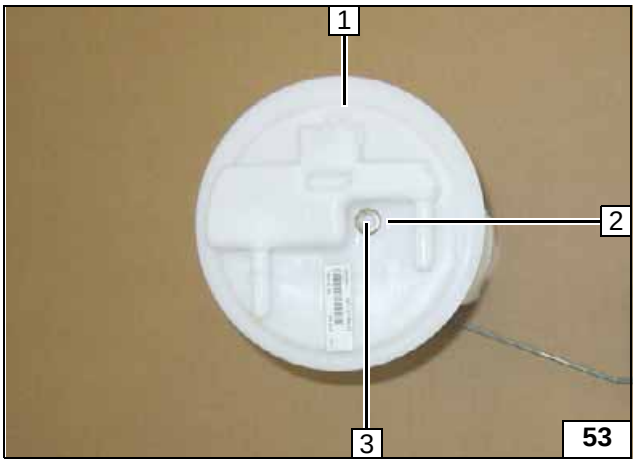
1 Silent block, flanged nut [2x]
2 Original vehicle bolt
3 Angle bracket
4 Metering pump
5 Rubber-coated pipe clamp

Installing metering pump



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

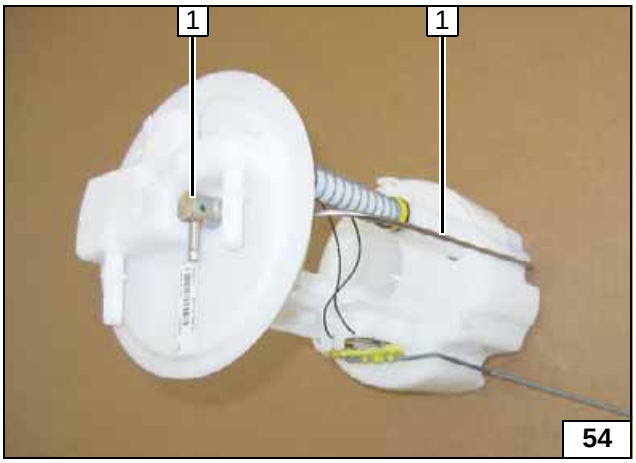
Connecting metering pump



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

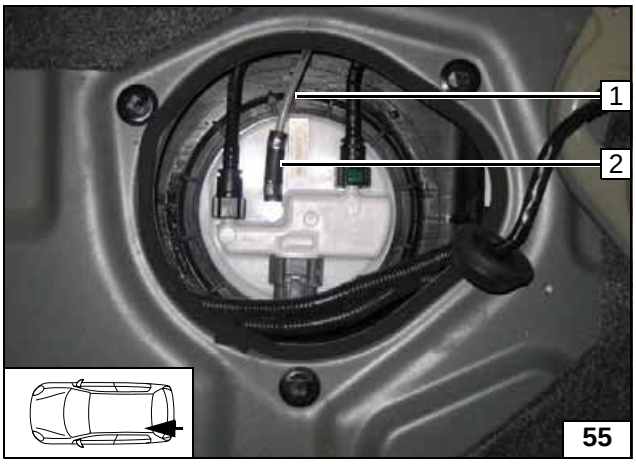
2 Lay on washer
3 Copy hole pattern, 6 mm dia. hole

Removing fuel



Shape fuel standpipe **1** according to template, cut to length and install.
Tightening torque of fuel standpipe is 5 Nm.

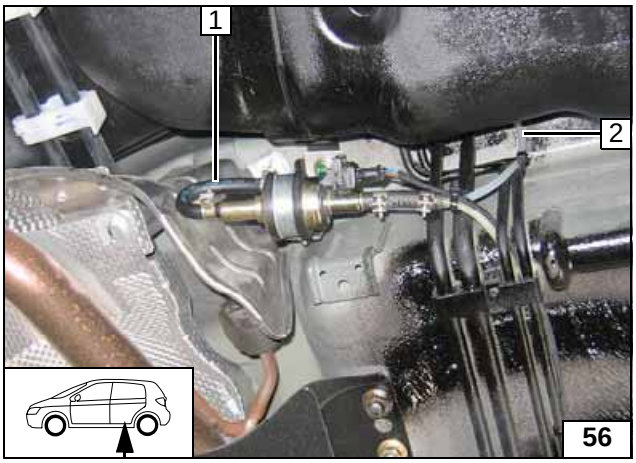
Installing fuel standpipe



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

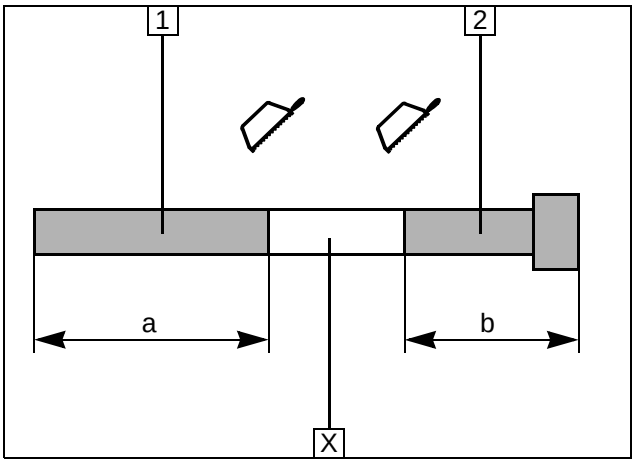
1 Fuel line
2 Hose section, 10 mm dia. Caillau clamp [2x]

Connecting fuel line



1 180° moulded hose, 10 mm dia. hose clamps [2x]
2 Fuel line from fuel standpipe

Connecting metering pump

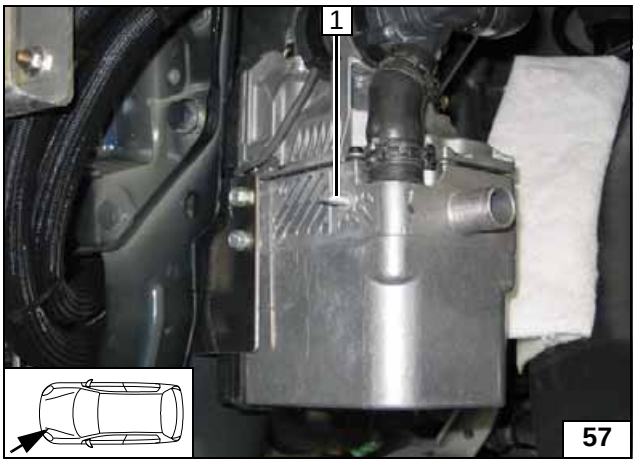


Exhaust gas

1 Exhaust pipe
a = 280
2 Exhaust end section
b = 310

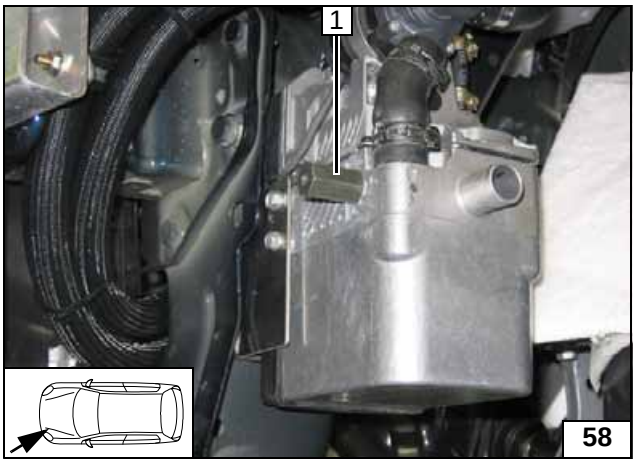
Discard section **X**

Preparing exhaust pipe



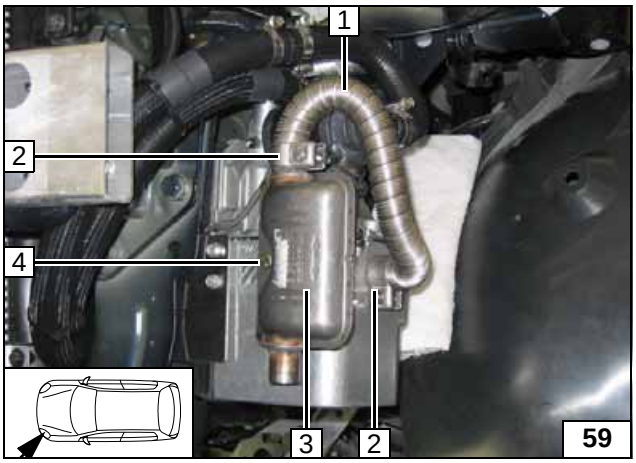
1 Ejot stud

Installing stud bolt



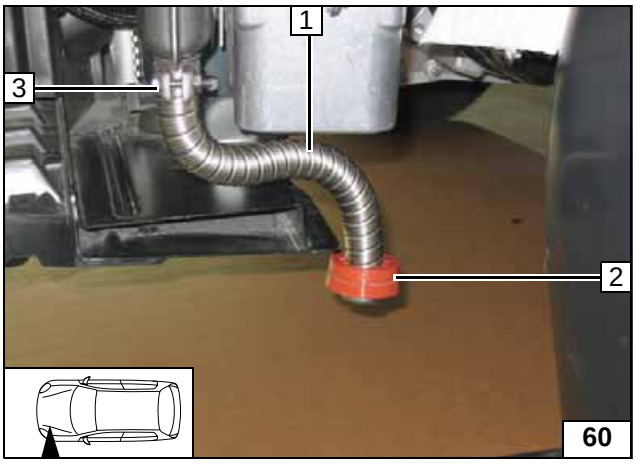
1 30 mm dia. spacer nut

Installing spacer nut



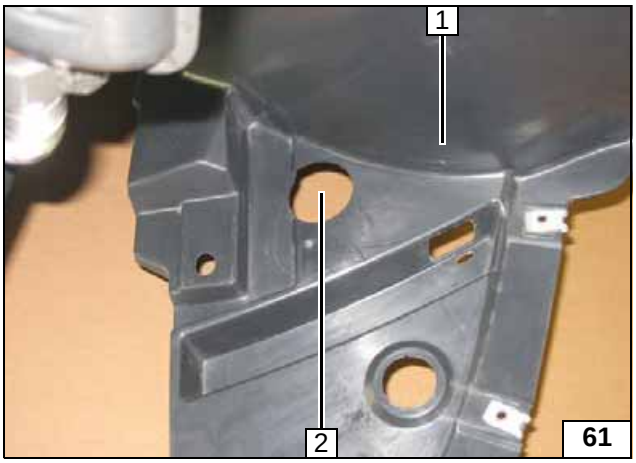
1 Exhaust pipe
2 Hose clamp [2x]
3 Exhaust muffler
4 M6x12 bolt, spring lockwasher on spacer nut

Installing muffler



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

Installing exhaust end section



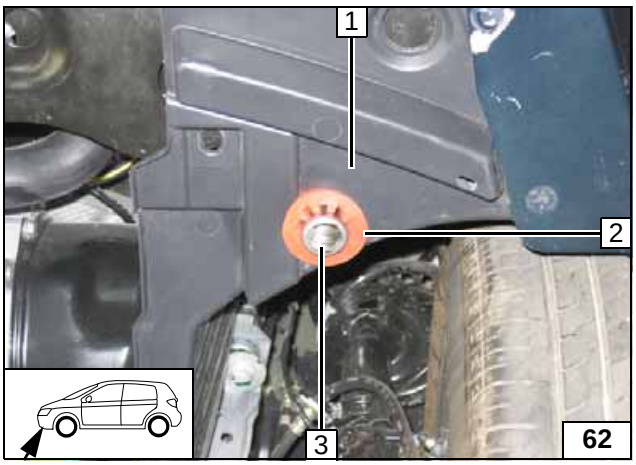
1 Wheel well trim
2 42 mm dia. hole

Cutting out wheel well trim

Final Work

WARNING!
Mount removed parts in reverse order.
Check all hoses, clamps and all electrical connections for firm seating.
Secure all loose cables using cable ties.
Only use manufacturer-approved coolant.
Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Adjust digital timer, try out Telestart
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Check the proper operation of the parking heater, see the operating instructions/installation instructions.
- Apply the label "Switch off parking heater before refilling" in the area of the filling neck



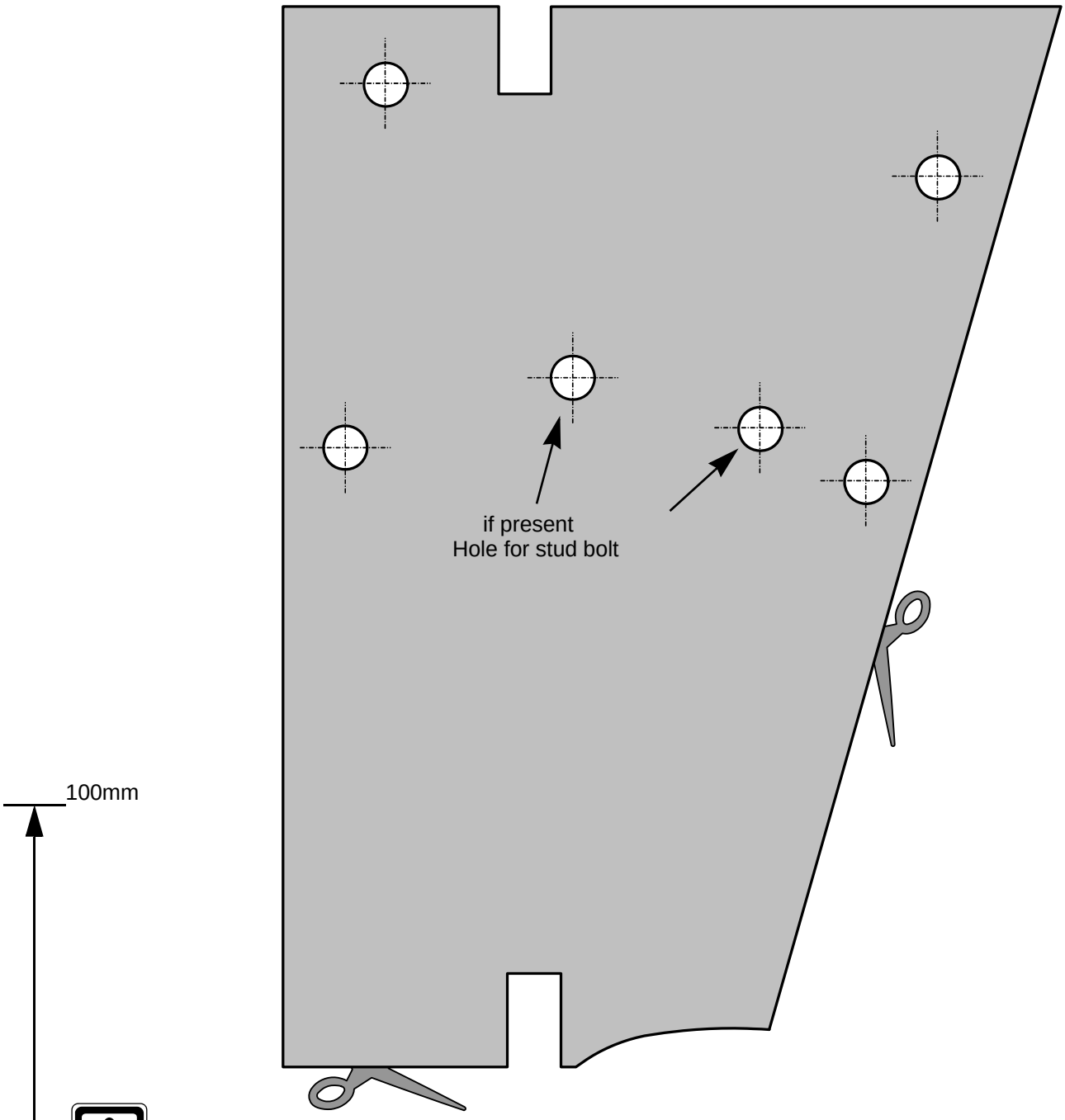
Align red (rt) rubber isolator **2** flush on exhaust end section **3**.

1 Wheel well trim

Mounting rubber isolator

Webasto AG
Postfach 80
D-82131 Stockdorf / Germany
National Hotline: 01805 93 22 78
(14 Cent aus dem deutschen Festnetz)
Hotfax: 0395 5592 353
Hotmail: hotline@webasto.de
http://www.webasto.de

Template for Bracket



100mm

Scale 1:1

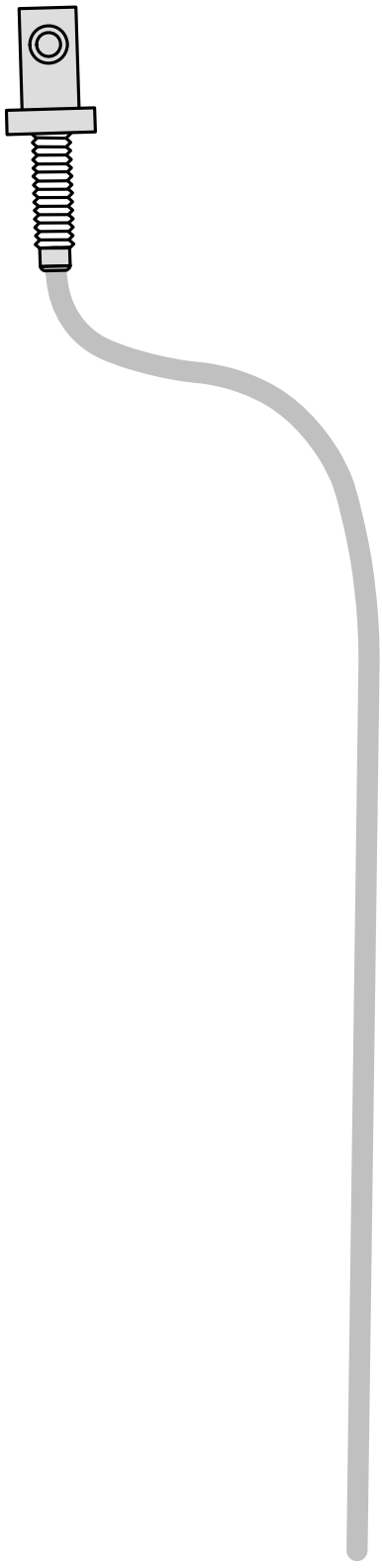
Compare size of the printed version with dimension lines.
Allowed tolerance 2%.

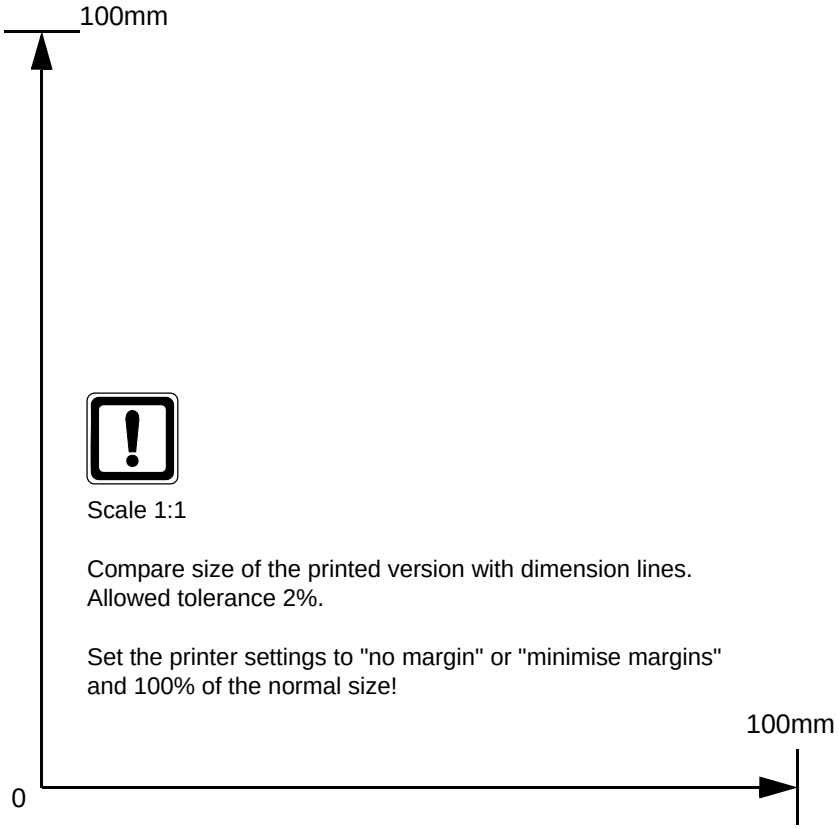
Set the printer settings to "no margin" or "minimise margins"
and 100% of the normal size!

100mm

0

Template for Fuel Standpipe





Scale 1:1

Compare size of the printed version with dimension lines.
Allowed tolerance 2%.

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

Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.
Note:
We recommend matching the heating time to the driving time.
Heating time = driving time
Example:
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

On vehicles with passenger compartment monitoring, this must be deactivated during heating!
If the summer/winter switch option has been installed, this must be switched in accordance with the time of year. The heater 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:

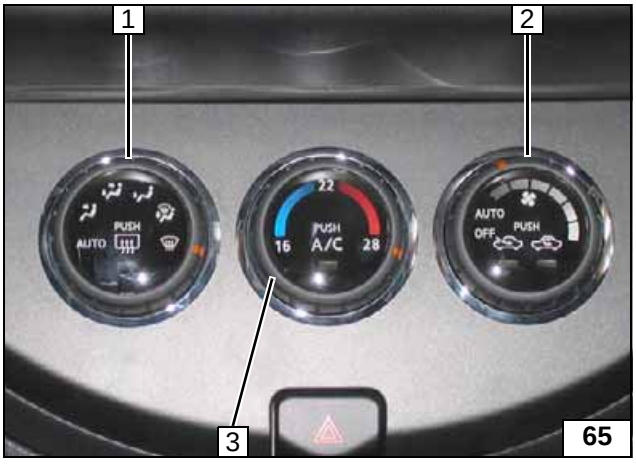
Manual air conditioning

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

Automatic air-conditioning Version 1

1 Set fan to level "1", or possibly "2"
2 Set temperature to "HI"
3 Air outlet to windshield

Automatic air-conditioning Version 2



1 Air outlet in windshield
2 Set fan to level "1", or possibly "2"
3 Set temperature to "HI"