

# 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

### Suzuki SX4

### Suzuki SX4 4WD

Gasoline and Diesel

from Model Year 2006

Applicable to Chassis No.: TSMEY... and Chassis No.: JSAGY...

Left-hand drive vehicle



#### **WARNING!**

#### **Hazard warning:**

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

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

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

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

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

## Table of Contents

Validity	2	Fuel Connection	27
Heater Unit/Installation Kit	3	Fuel removal on gasoline engines	27
Foreword	3	Type EY:	17
General Instructions	3	Type GY:	20
Special Tools	3	Metering pump on gasoline engine	29
Explanatory Notes on Document	4	Fuel removal on diesel engines	30
Preliminary Work	5	Metering pump on diesel engines	31
Heater unit installation location	5	Combustion air	32
Preparing electrical system	6	Exhaust system	33
Electrical Connections	7	Final Work	35
Fan controller for manual air conditioning	8	Operating Instructions for End Customer	36
Automatic air-conditioning fan controller	9	Template for Perforated Bracket for Metering Pump	37
Type EY:	9	Template for Gasoline Fuel-Tank Sending Unit	
Type GY:	9	Type EY	38
Telestart option	11	Template for Gasoline Fuel Standpipe	
Preparing installation location	12	Type EY	38
Preparing heater unit	13	Template for Gasoline Fuel Standpipe	
Installing heater unit	13	Type GY	39
Coolant connection for gasoline	16	Template for Fuel-Tank	40
Type EY:	17	Template for Diesel Fuel Standpipe	40
Type GY:	20		
Coolant connection for diesel engine	23		

## Validity

Manufacturer	Model	Type	EG-BE No./ABE
Suzuki	SX 4	EY	e1 * 2001/116 * 0105 * ...
Suzuki	SX 4	GY	e4 * 2001/116 * 0124 * ...

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
M15A	Gasoline	73	1490
M16A	Gasoline	79	1586
D19AA	Diesel	88	1910

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	Suzuki-specific heater unit delivery scope	See Suzuki price list
1	Installation kit for Suzuki SX4 Gasoline and Diesel	1311142A

### Heater controls:

Description	Order No.:
Heater controls	See Suzuki price list

### Heater unit recommended for the respective vehicle class:

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

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



## Foreword

These installation instructions apply to Suzuki SX4 Gasoline and Diesel vehicles - for validity, see page 2 - from model year 2006 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to these installation instructions.

However, the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C/P/E* must always be observed.

The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

## General Instructions

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties.

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

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

## Special Tools

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

**Explanatory Notes on Document**

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

**Mechanical system**



**Electrical system**



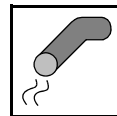
**Coolant connection**



**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.



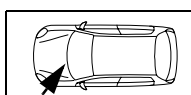
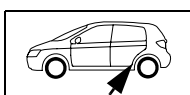
Specific risk of fire or explosion.



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



Reference to a special technical feature.

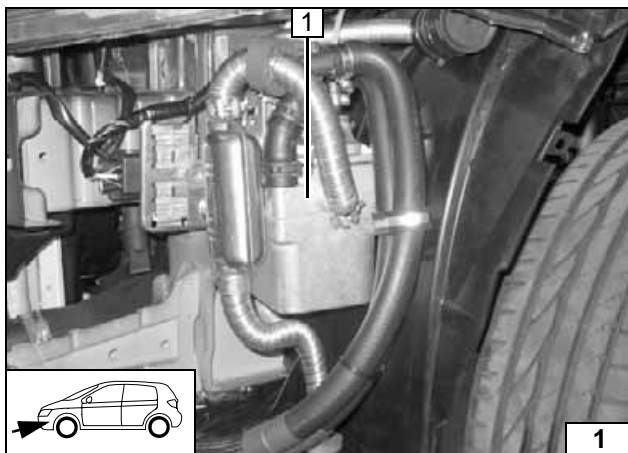


The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

## Preliminary Work

- 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 complete with the intake hose (diesel only)
- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.
- Detach the wheel well trim on the right and left.
- Remove the bumper.
- Remove the left wheel well trim.
- Remove the lower cover of the fuel line (diesel only).
- Remove the fuel tank according to the manufacturer's specifications (for easier installation, remove the middle muffler according to the manufacturer's instructions beforehand)
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the lower right trim of the instrument panel.
- Remove the A/C control panel (only with automatic air-conditioning)

Please remove page 36 "Operating instructions for the end customer" and add this to the vehicle operating instructions.



### Heater unit installation location

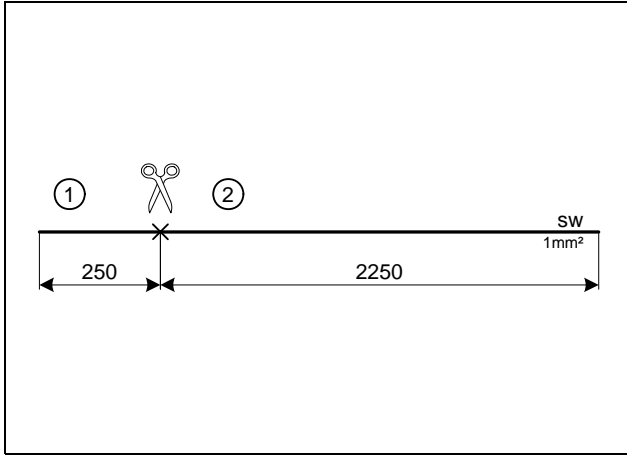
- 1 Heater unit

Installation  
location

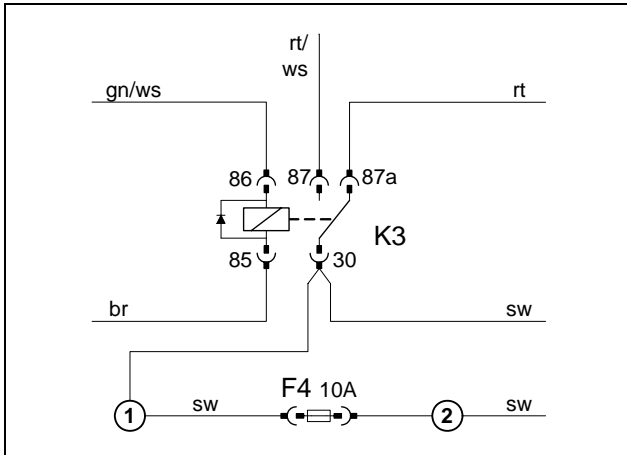


**Preparing electrical system**

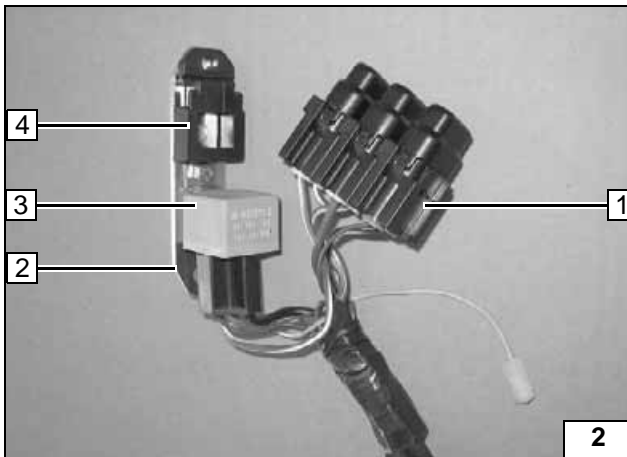
Only with automatic air-conditioning



**Cutting wires to length**



**Preparing fuse F4**



**All vehicles**

- 1 Fuse carrier
- 2 Perforated bracket
- 3 K3 relay, M5x16 bolt, M5 flanged nut
- 4 Fuse holder, M5x16 bolt, M5 flanged nut



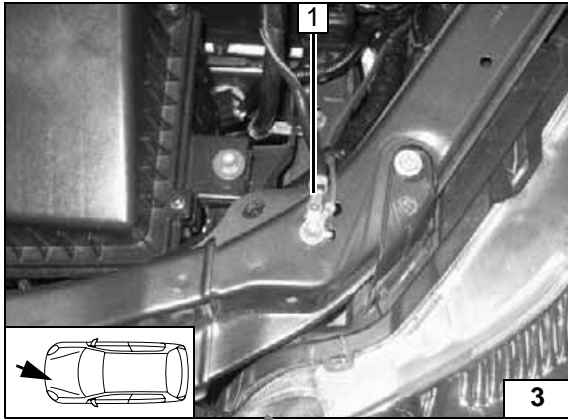
**Preparing fuse holder and K3 relay**



**Electrical Connections**

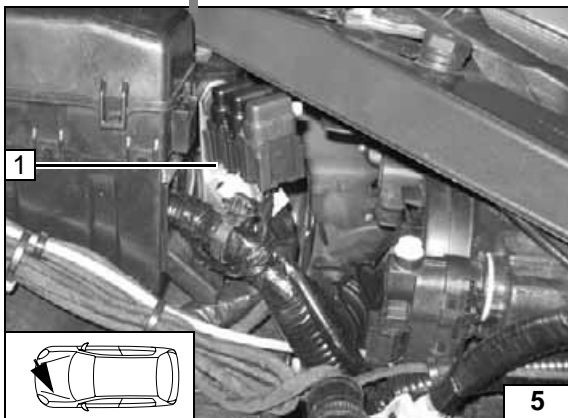
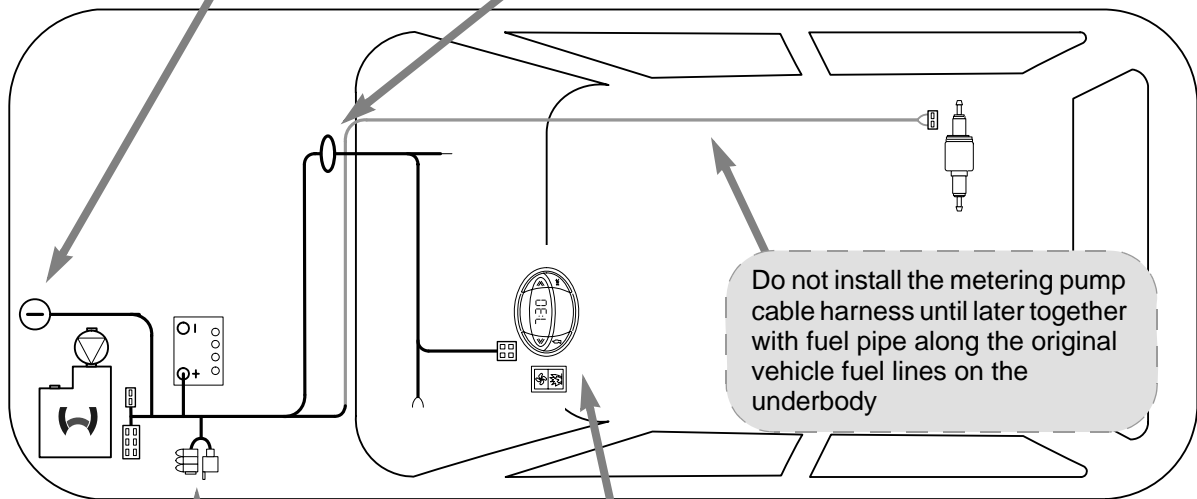
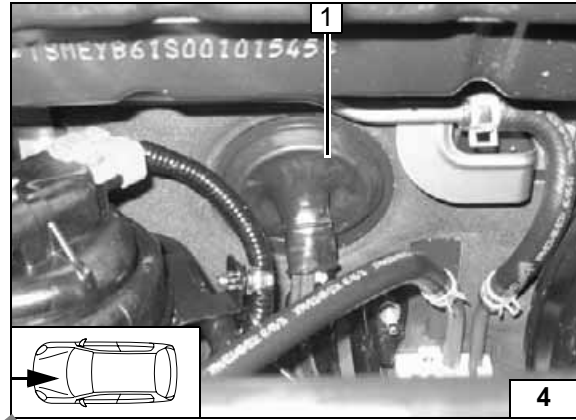
**Connecting to ground support point**

1 Ground support point



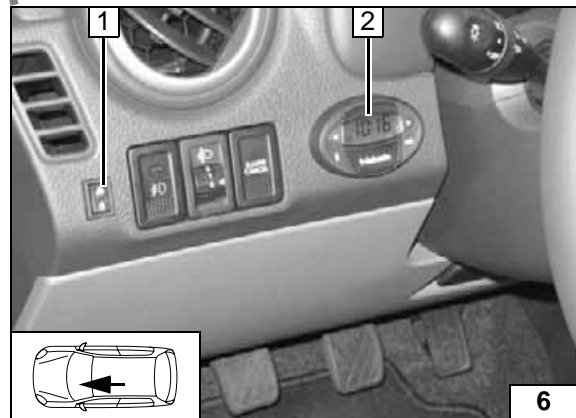
**Wiring harness pass through**

1 Protective rubber plug



**Fuse holder, relay K3**

1 Premounted perforated bracket, self-tapping screw

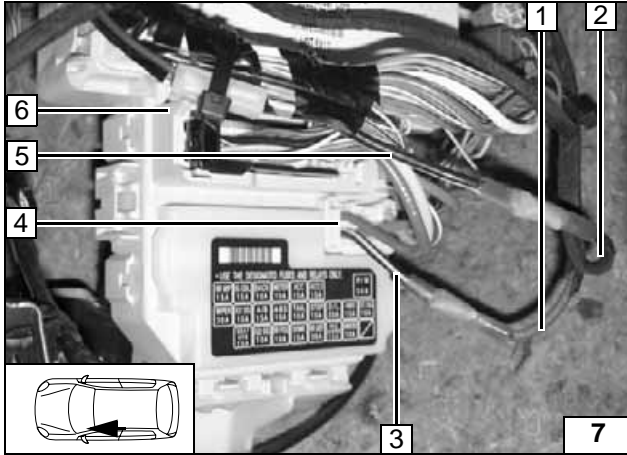


**Digital timer and summer/winter switch option**

1 Summer/winter switch, drilled hole 12 mm dia.  
2 Digital timer



**Wiring harness installation diagram**



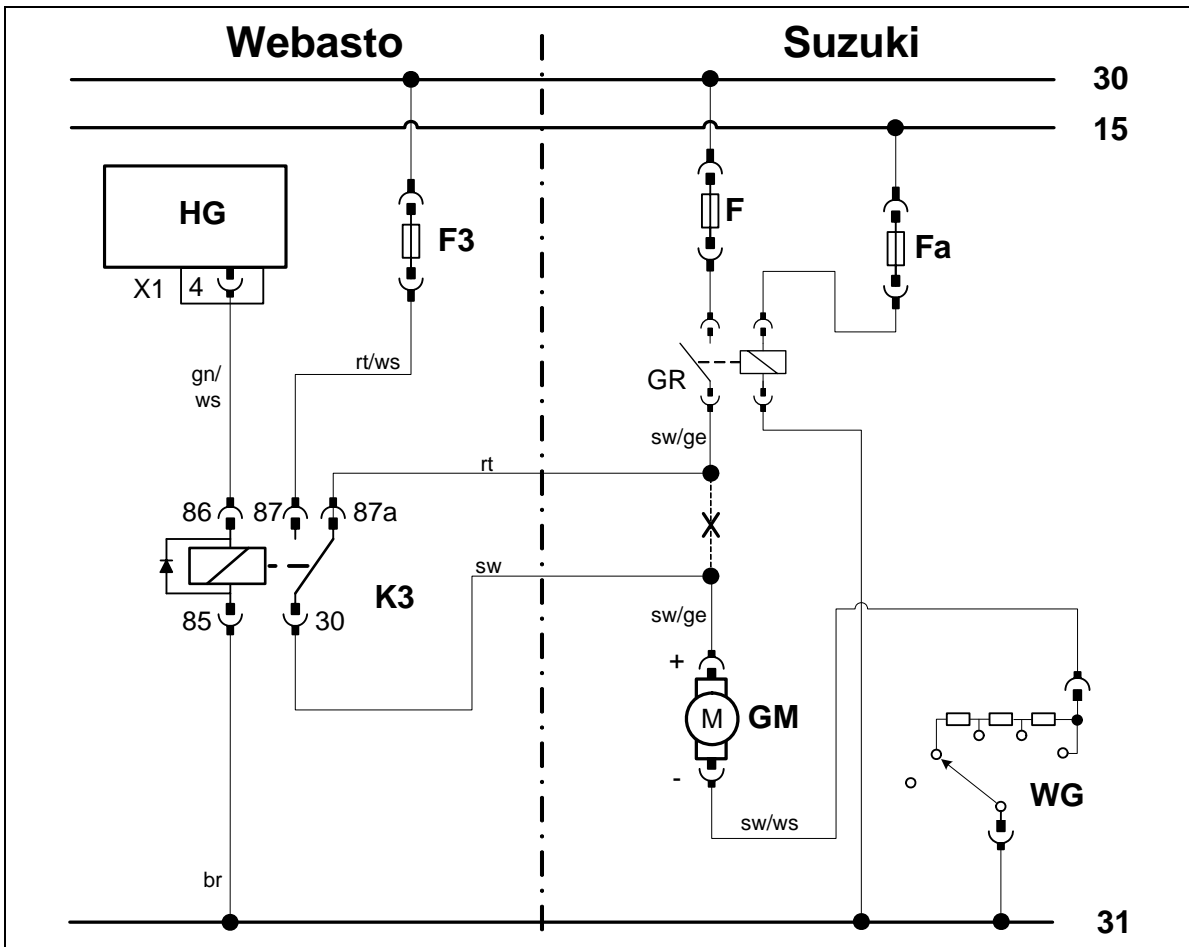
### Fan controller for manual air conditioning

Connection on connector G70 5, Pin 6 to fan motor central electrical box 6.  
Produce connections as shown in wiring diagram.

- 1 Red (rt) wire from K3/87a
- 2 Wire to K3/30
- 3 Black/yellow (sw/ge) wire from fan relay
- 5 Black/yellow (sw/ge) to fan motor



Connecting fan motor

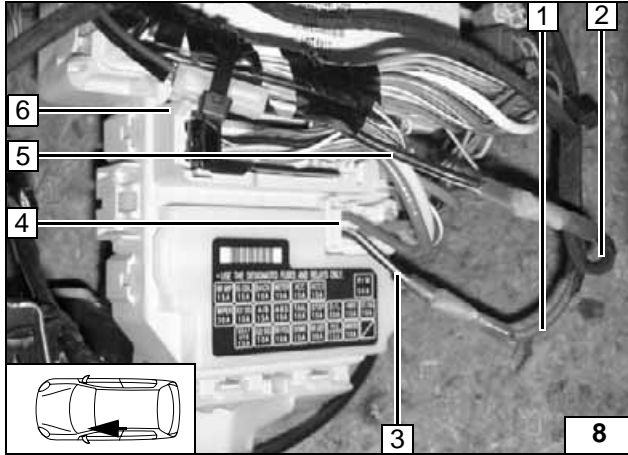


Wiring diagram for manual air conditioning

Webasto components		Components of Suzuki SX4		Colors and symbols	
HG	Heater unit	GM	Fan motor	rt	red
X1	6-pin heater unit connector	GRs	Fan relay	ws	white
F3	Fuse, 25 A	WG	Resistor group	sw	black
K3	Fan relay	KB	Air-conditioning control panel	br	brown
		F	Fuse 30A	gn	green
		Fa	10 A fuse	bl	blue
				ge	yellow
				X	Cutting point
				Wiring colors may vary.	

Legend





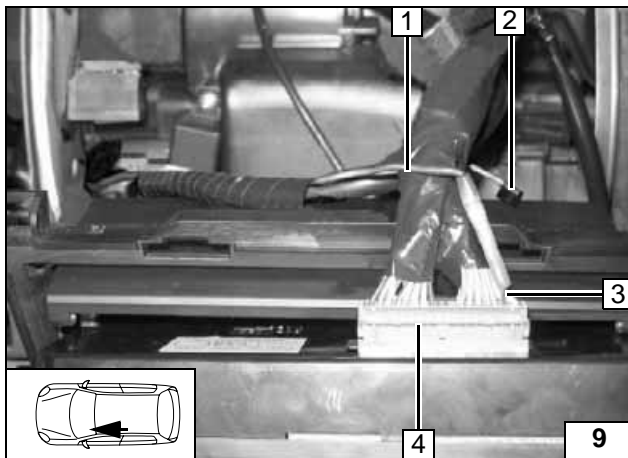
## Automatic air-conditioning fan controller

Connection on connector G70 5, Pin 6 to fan motor central electrical box 6.  
Produce connections as shown in wiring diagram.

- 1 Red (rt) wire from K3/87a
- 2 Wire to K3/30
- 3 Black/yellow (sw/ge) wire from fan relay
- 5 Black/yellow (sw/ge) to fan motor



Con-necting fan motor



Connector assignment on A/C control panel is vehicle-dependent!

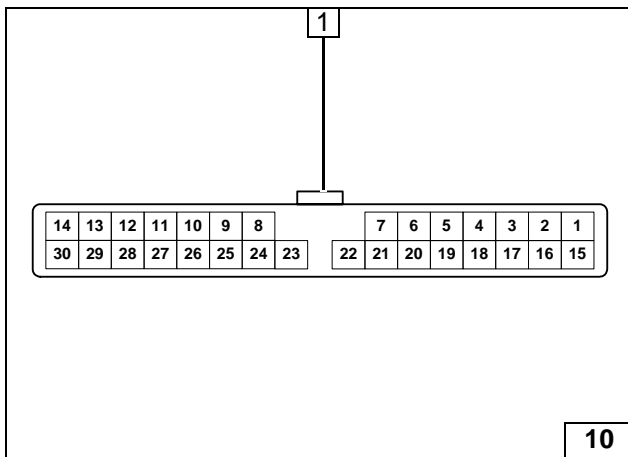
### Type EY:

Connection on connector G59 4 from A/C control panel.  
Produce connections as shown in wiring diagram.

- 1 Black (sw) wire from relay K3/30 F4
- 2 Insulate red/black (rt/sw) wire from Fb 10 A and tie back
- 3 Red/black (rt/sw) wire from connector G59, Pin 16

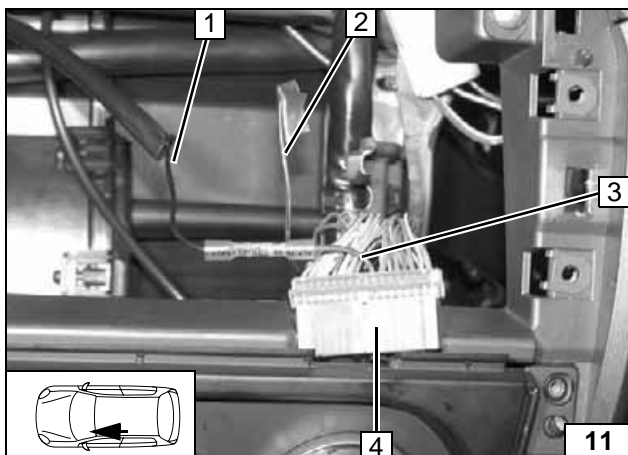


Con-necting air-con-ditioning control element



- 1 Connector G59 on line side

Connector G59



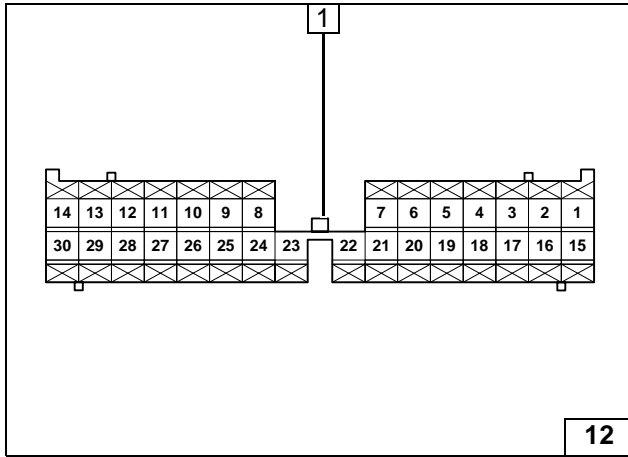
### Type GY:

Connection on connector G20 4 from A/C control panel.  
Produce connections as shown in wiring diagram.

- 1 Black (sw) wire from relay K3/30 F4
- 2 Insulate red/black (rt/sw) wire from Fb 10 A and tie back
- 3 Red/black (rt/sw) wire from connector G20, Pin 22

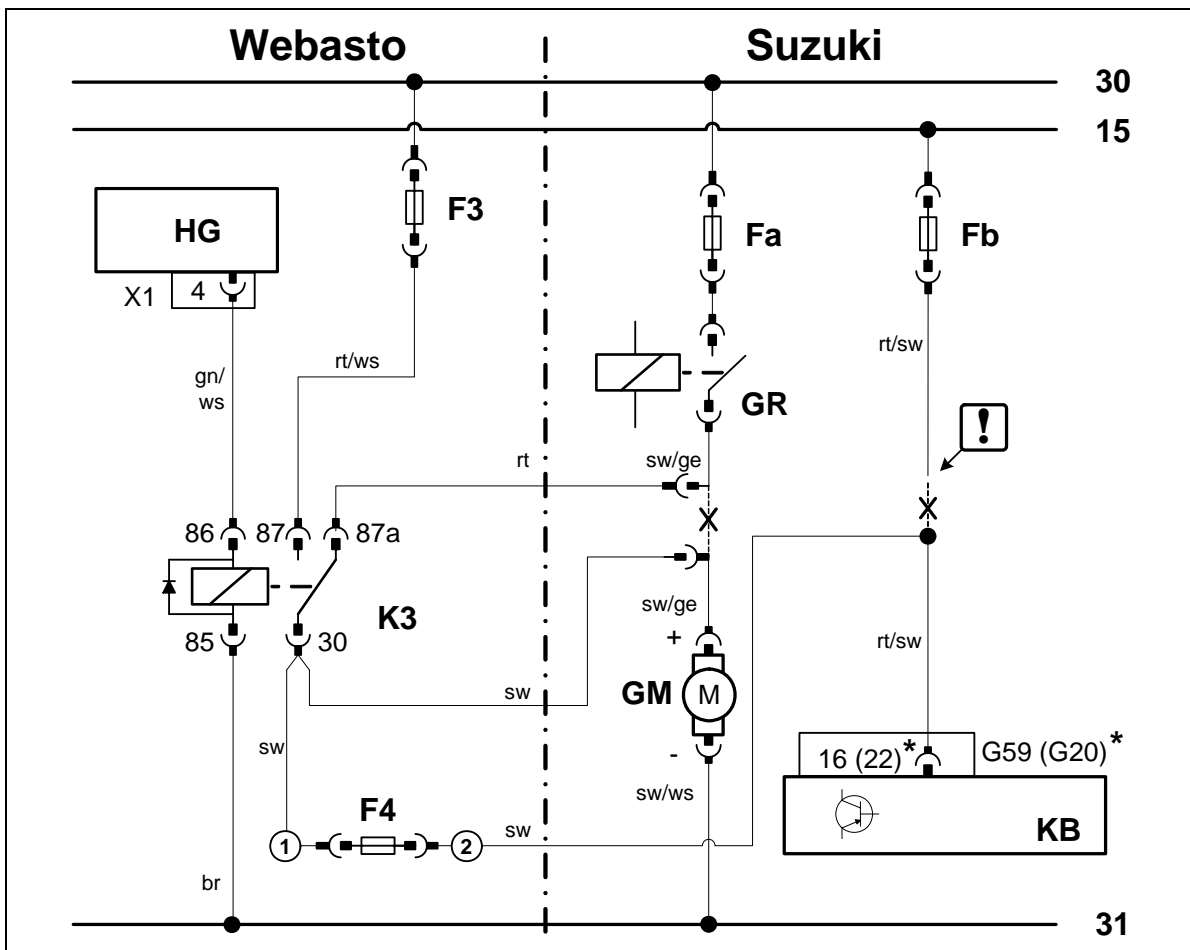


Con-necting air-con-ditioning control element



1 Connector G20 on line side

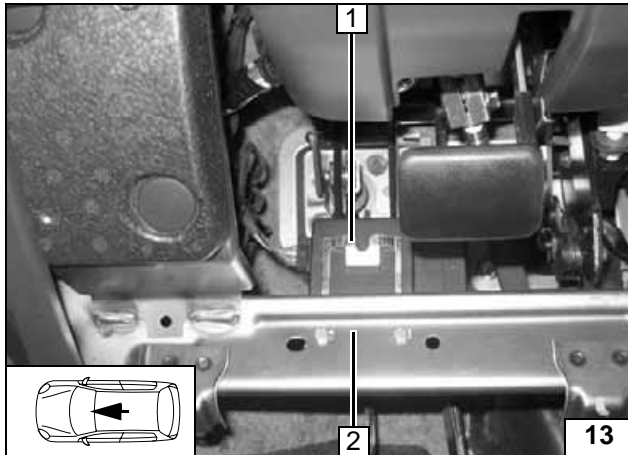
Connector G20



Automatic air-conditioning circuit diagram

Webasto components		Components of Suzuki SX4		Colors and symbols	
HG	Heater unit	GM	Fan motor	rt	red
X1	6-pin heater unit connector	GRs	Fan relay	ws	white
F3	Fuse	GRr	Fan controller	sw	black
K3	Fan relay	KB	Air-conditioning control panel	br	brown
F4	10 A fuse	*	Vehicle-dependent, connector G59 or G20	gn	green
		Fa	Fuse 30A	bl	blue
		Fb	10 A fuse	ge	yellow
				!	Insulate wire ends and tie back
				X	Cutting point
					Wiring colors may vary.

Legend

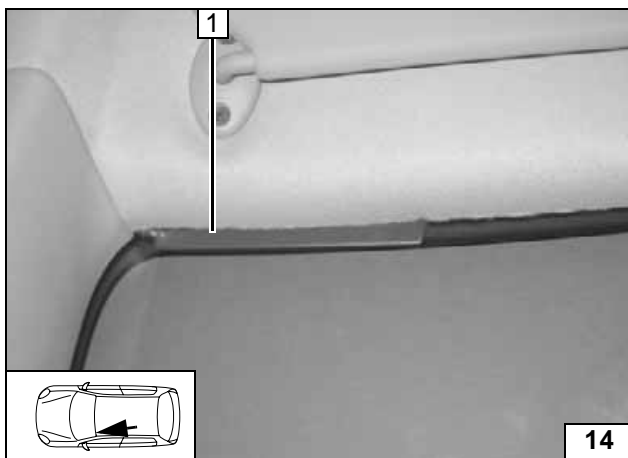


**Telestart option**

- 1 Receiver, bracket, M5x16 bolt [2x], washer [2x], M5 flanged nut [2x], existing hole [2x]
- 2 Carrier under steering column

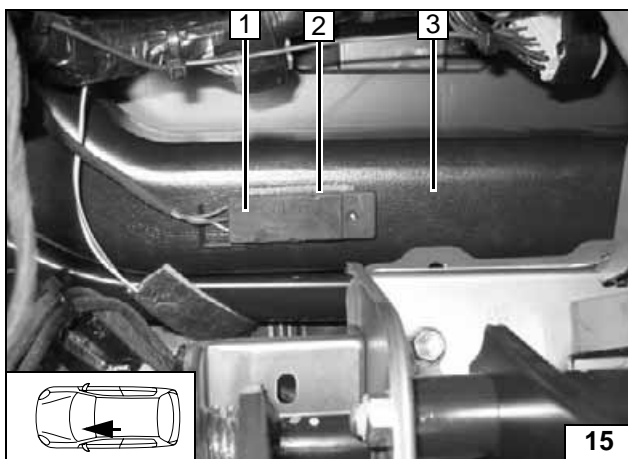


**Installing receiver**



- 1 Antenna

**Installing antenna**



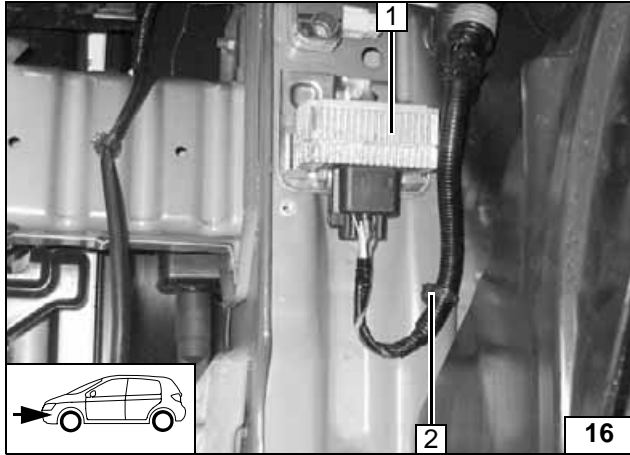
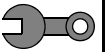
**Temperature sensor for HTM100 only**

Clean bonding surfaces.

- 1 Temperature sensor
- 2 Double-sided Velcro strip (self-adhesive)
- 3 Air duct



**Installing temperature sensor**



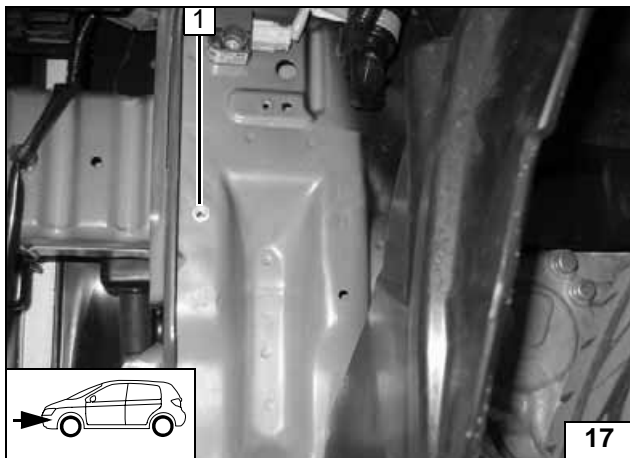
**Preparing installation location**



**Diesel engine only**

Remove series resistor of radiator fan 1, will be installed later on heater unit, unclip retaining clip 2 of wiring harness.

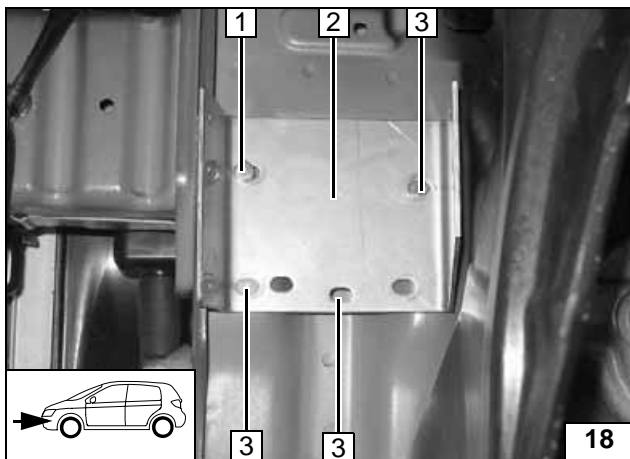
**Preparing installation location**



**All vehicles**

1 Drill out 9.1 mm dia. hole, rivet nut

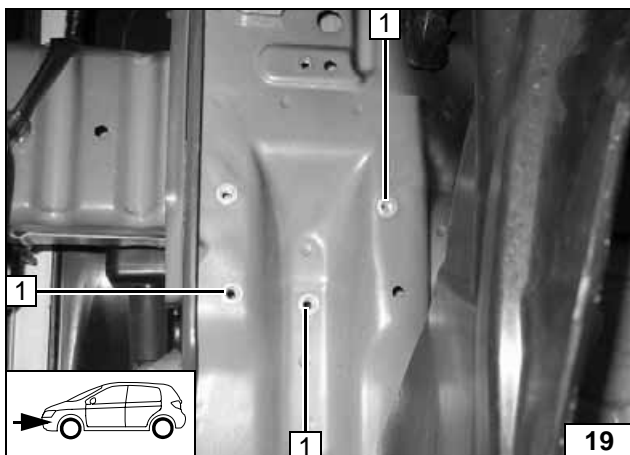
**Installing rivet nut**



Fasten bracket 2 on rivet nut with bolt 1, M6x20, align bracket 2 as shown and copy hole pattern 3 for 9.1 mm dia. hole [3x].

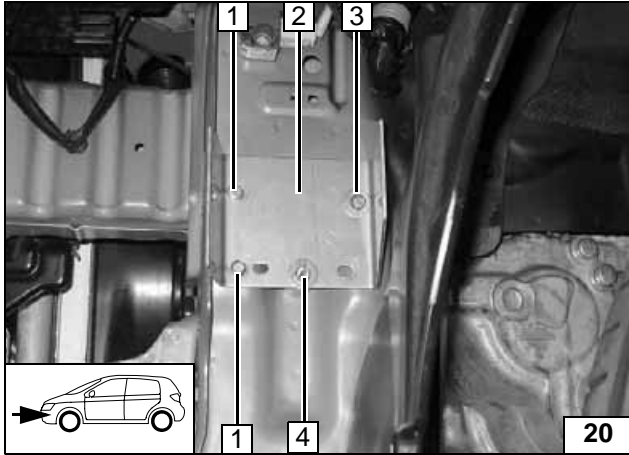
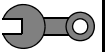


**Copying hole pattern**



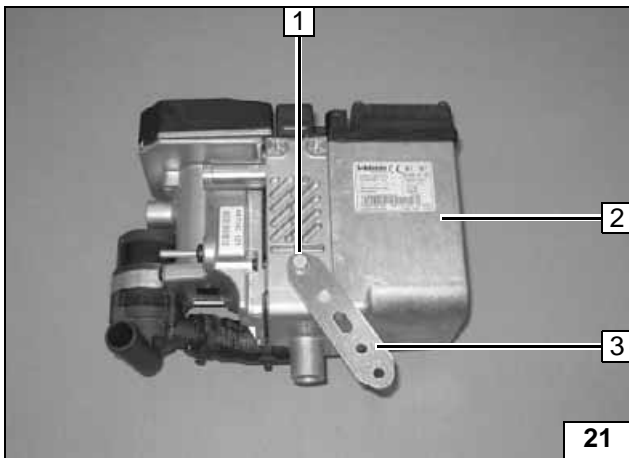
1 9.1 mm dia. hole, rivet nut [3x]

**Installing rivet nut**



- 1 M6x20 bolt, spring lockwasher [2x each]
- 2 Bracket
- 3 M6x20 bolt, spring lockwasher, large diameter washer
- 4 M6x50 bolt, spring lockwasher, large diameter washer, 30 mm shim

Installing bracket



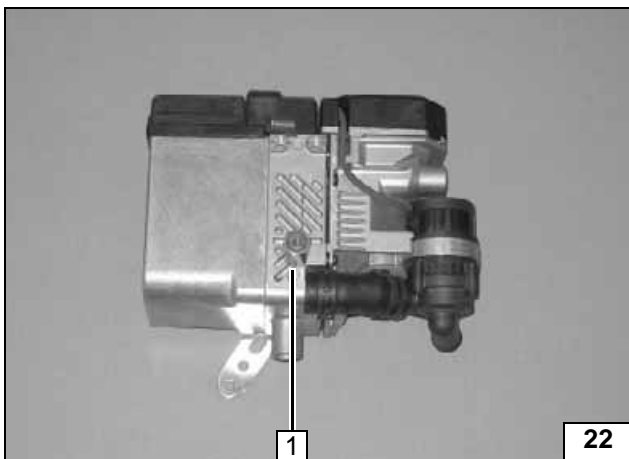
**Preparing heater unit**

Install perforated bracket 3 as shown.  
Ejot screw bolt 1, tightening torque 10 Nm.

- 2 Heater unit



Preparing heater unit

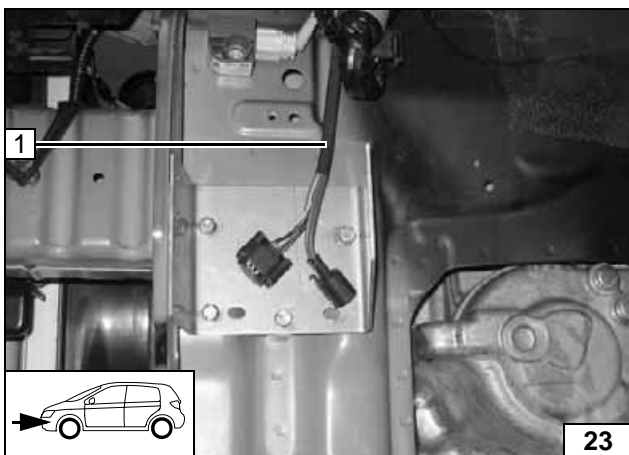


Ejot screw bolt, tightening torque 10 Nm!

- 1 Ejot bolt, spacer nut, M6x30



Preparing heater unit

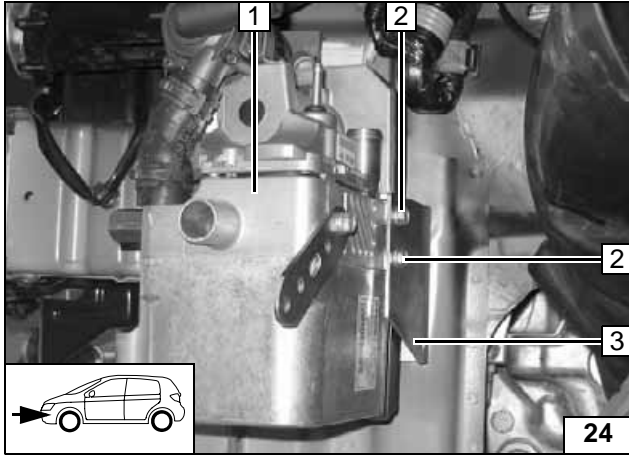
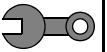


**Installing heater unit**

Route wiring harness 1 to installation location of heater unit and connect to heater unit prior to installation.



Installing heater unit

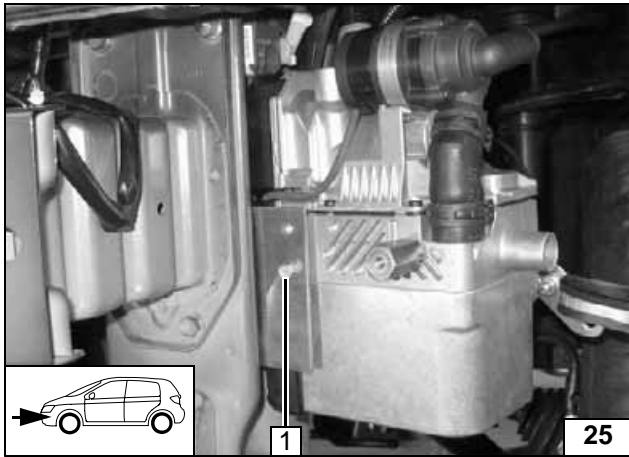


Tighten E-JOT screws to 10 Nm!

- 1 Heater unit
- 2 E-jot screw [2x]
- 3 Bracket



Installing heater unit

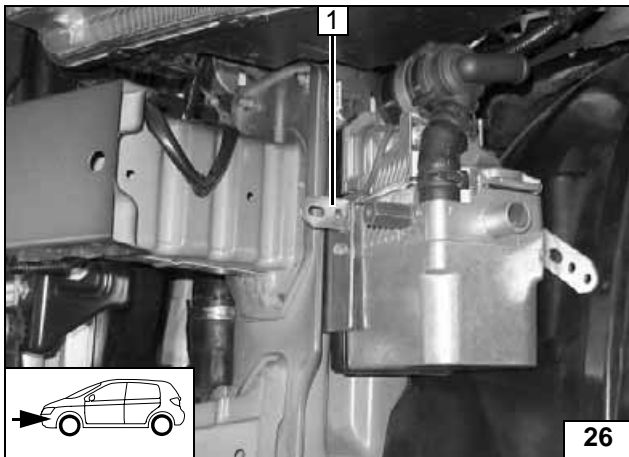


**Diesel engine only**

E-jot screw bolt 1, tightening torque 10 Nm.



Installing heater unit



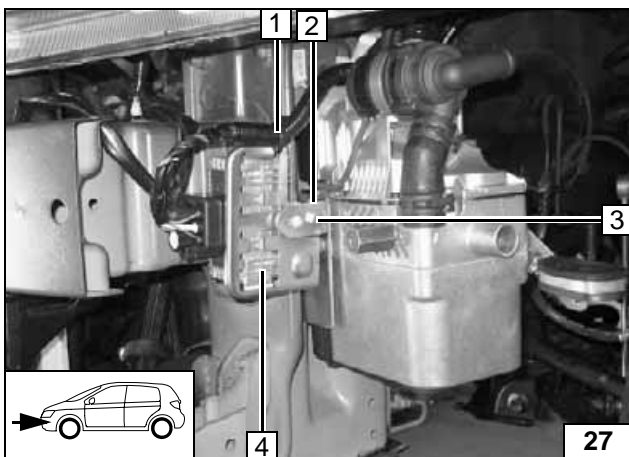
**Diesel engine only**

E-jot screw bolt, tightening torque 10 Nm!

- 1 Angle bracket, E-jot screw



Installing heater unit



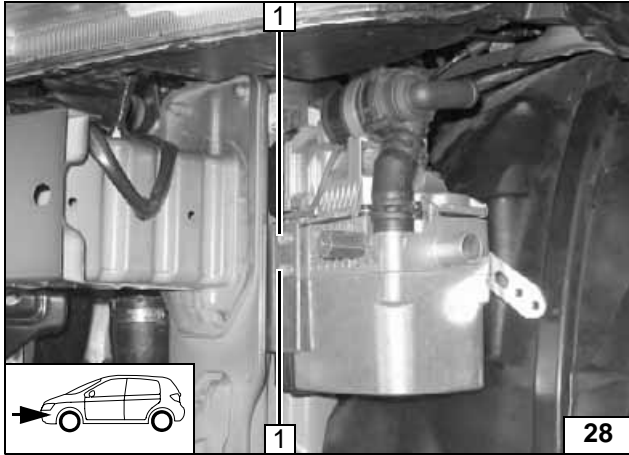
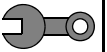
**Diesel engine only**

Install series resistor of radiator fan 4 on angle bracket 2.

- 1 Cable tie
- 3 M6x20 bolt, flanged nut



Installing heater unit

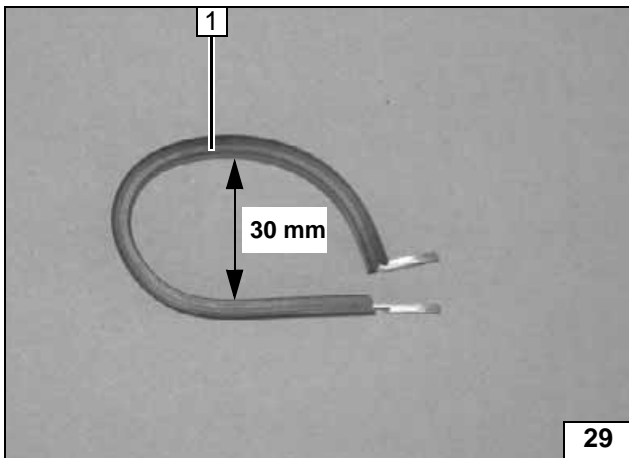


**Gasoline engine only**

E-jot screws 1 [2x], tightening torque 10 Nm!



**Installing heater unit**

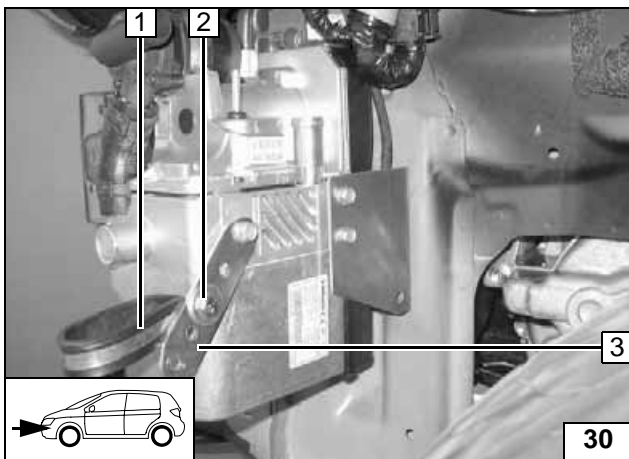


**All vehicles**

Shape 48 mm dia. rubber-coated p-clamp 1 as shown.



**Preparing p-clamp**



- 1 Rubber-coated pipe clamp, 48 mm dia.
- 2 M6x20 bolt, large diameter washer, M6 flanged nut
- 3 Perforated bracket

**Installing p-clamp**



**Coolant connection for gasoline**

**WARNING!**

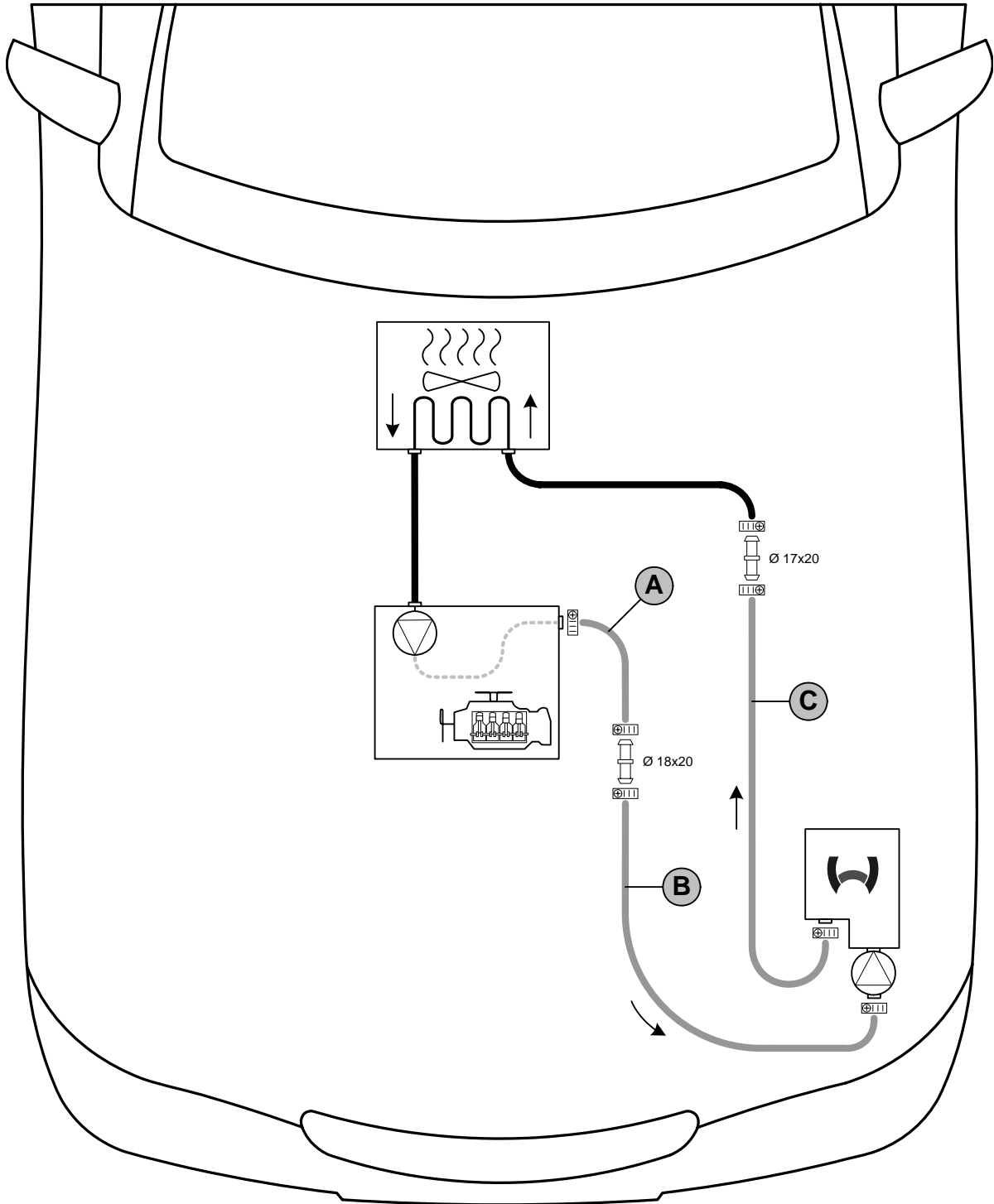
Tighten all hose clamps to 2.0 + 0.5 Nm.

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:

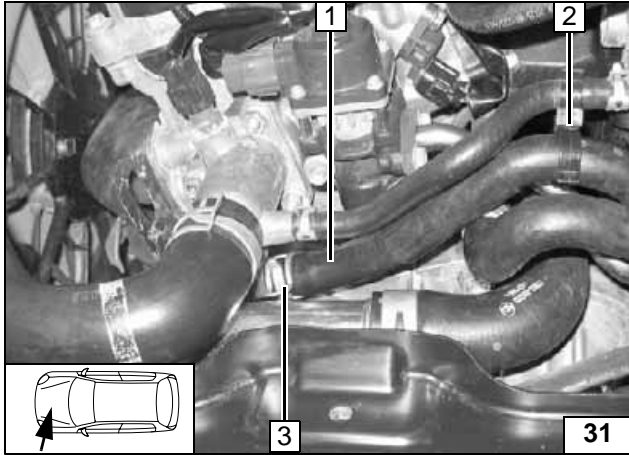


Coolant routing diagram

All hose clamps  = 20-27 mm dia.!







Coolant connection is dependent on respective vehicle equipment!

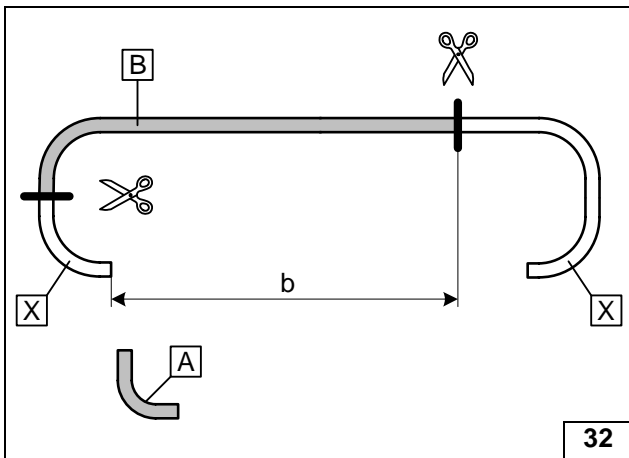
**Type EY:**

On vehicle as shown.

Detach hose on engine outlet 1 from connection piece, discard original vehicle hose clamp 3 and retaining clip 2.



**Cutting point**

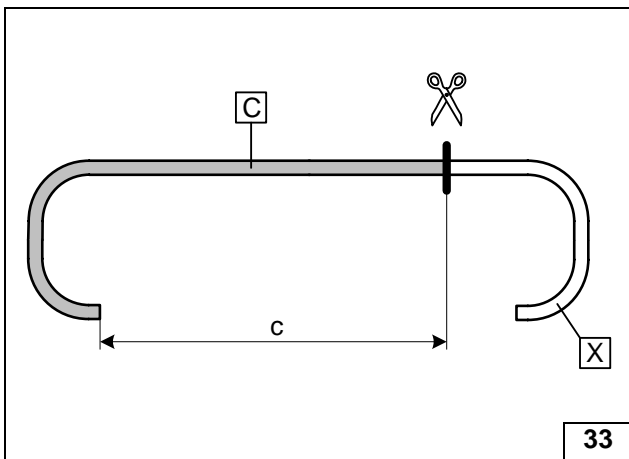


A = Molded hose  
b = 1170 mm

Discard section X



**Cutting coolant hoses to length**

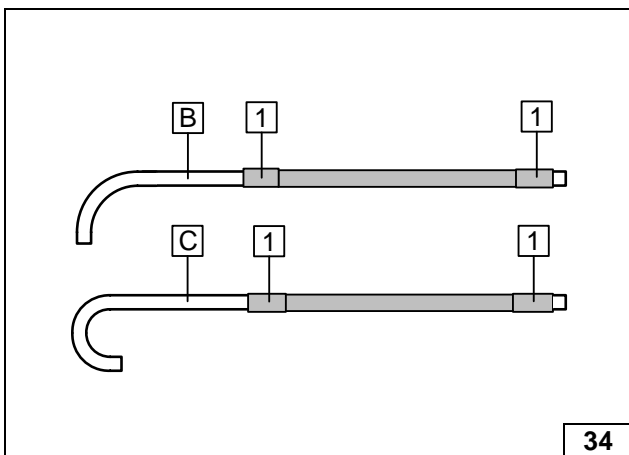


c = 1100 mm

Discard section X



**Cutting coolant hoses to length**



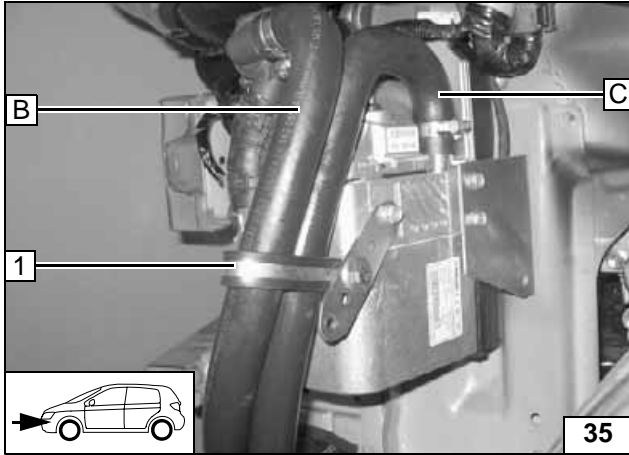
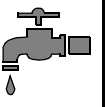
Push braided protection hoses onto hose B and C.

Cut heat shrink plastic tubing to size and shrink.

1 50 mm heat shrink plastic tubing [4x]



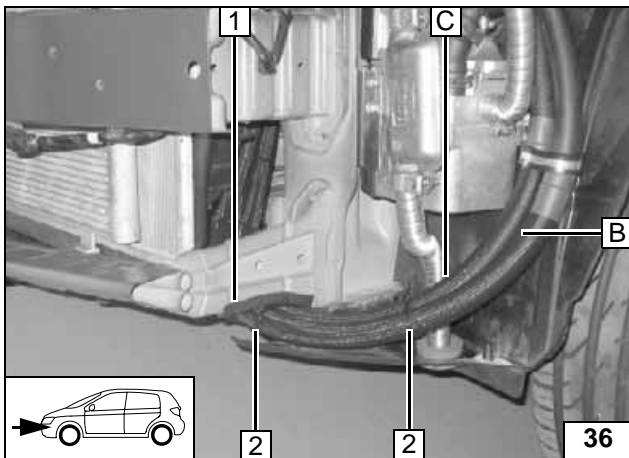
**Preparing coolant hoses**



Route coolant hoses **B** and **C** through rubber-coated p-clamp **1** as shown.



Con-  
nection on  
heater unit

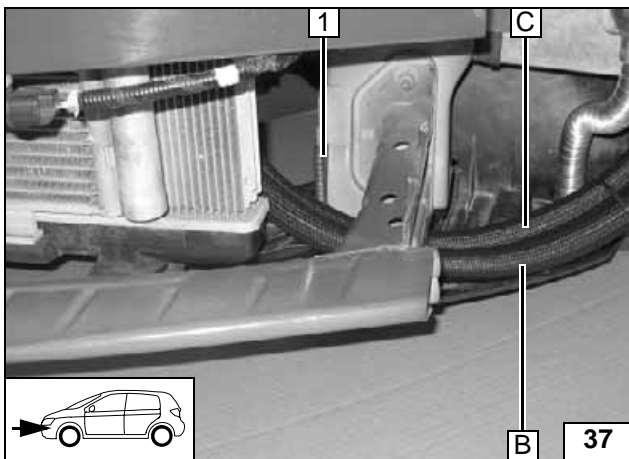


Cut 140 mm edge protection **1** to length and install.

**2** Cable tie [2x]



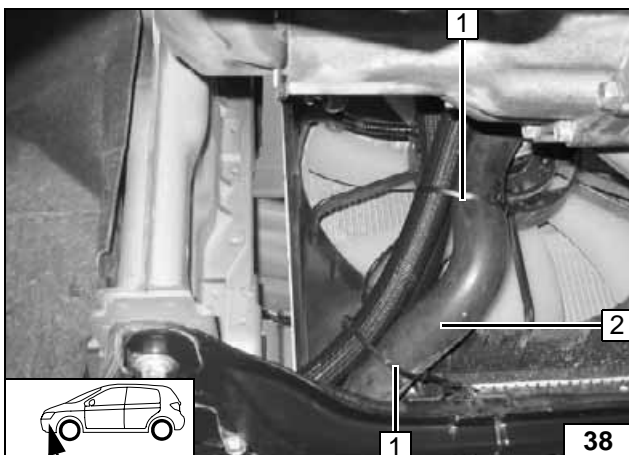
Routing of  
coolant  
hoses



Cut 80 mm edge protection **1** to length and install.



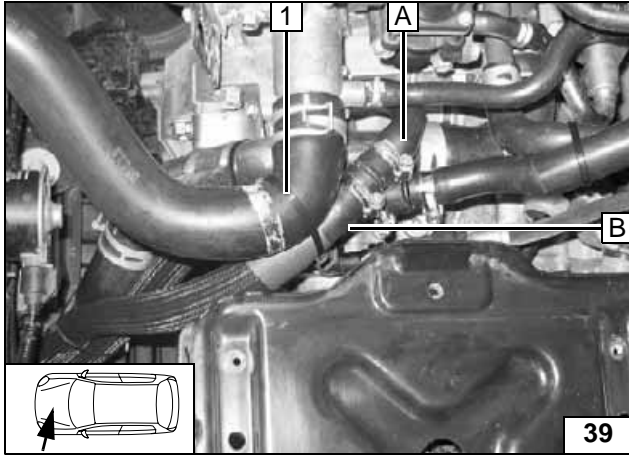
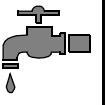
Routing of  
coolant  
hoses



Secure coolant hoses on hose **2** with cable tie **1** [2x each].

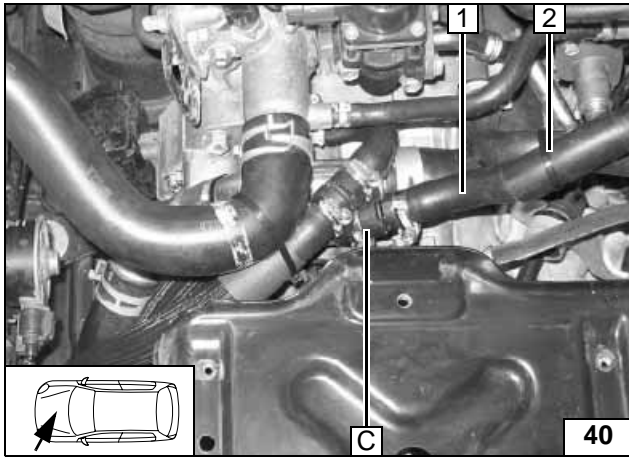


Routing of  
coolant  
hoses



1 Cable tie

Con-  
nection to  
engine  
outlet

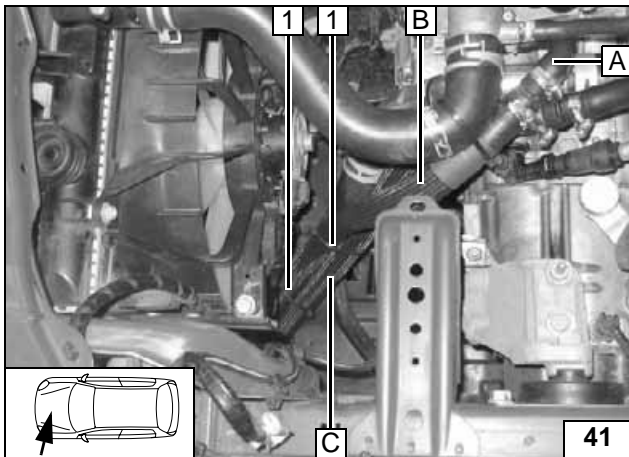


Before connecting, fill the coolant hoses with coolant.



1 Hose section of heat exchanger inlet  
2 Cable tie

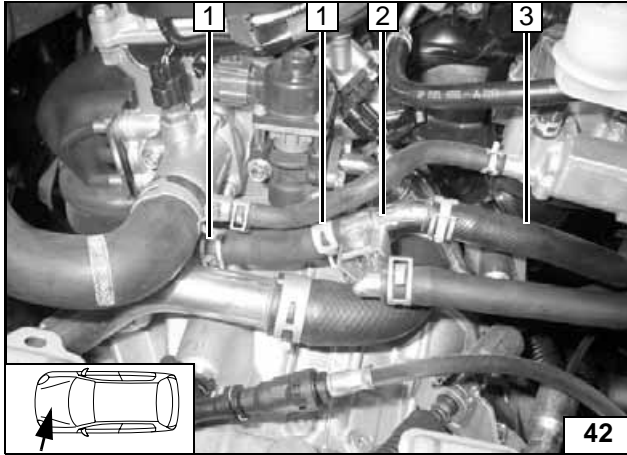
Con-  
nection to  
heat  
exchanger  
inlet



Ensure sufficient spacing to radiator fan housing.



Routing of  
coolant  
hoses



**Type GY:**

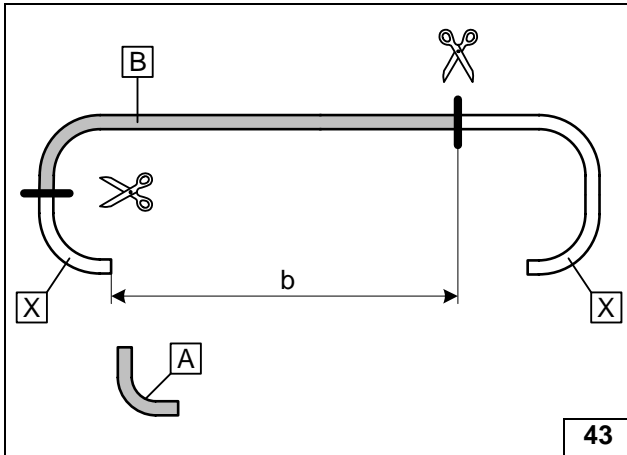
On vehicle as shown.

Remove connecting pipe with bracket **2** and discard. Spring clips **1** [2x] are no longer required.

**1** Hose of engine outlet



**Cutting point**

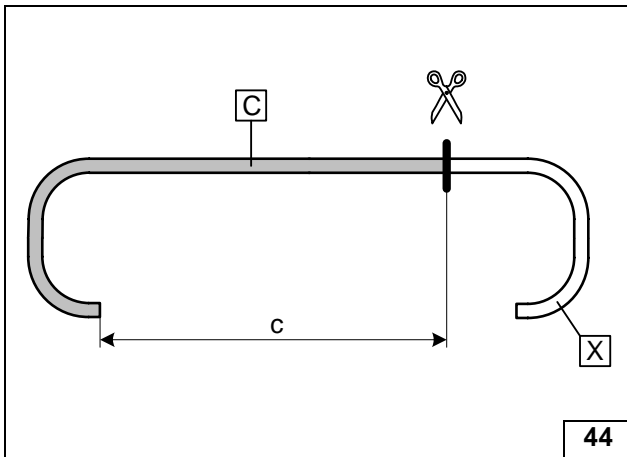


A = Molded hose  
b = 1170 mm

Discard section **X**



**Cutting coolant hoses to length**

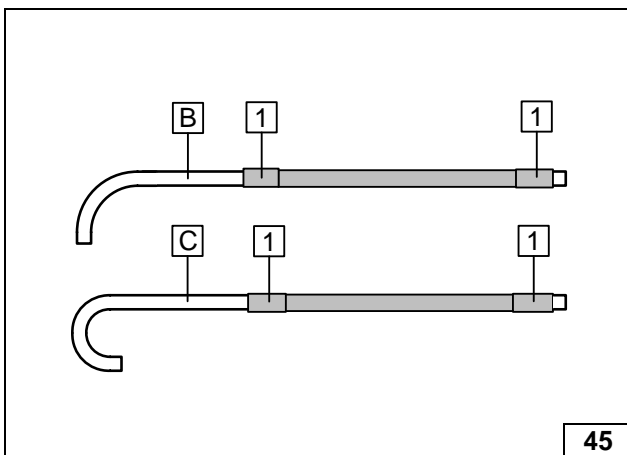


c = 1240 mm

Discard section **X**



**Cutting coolant hoses to length**



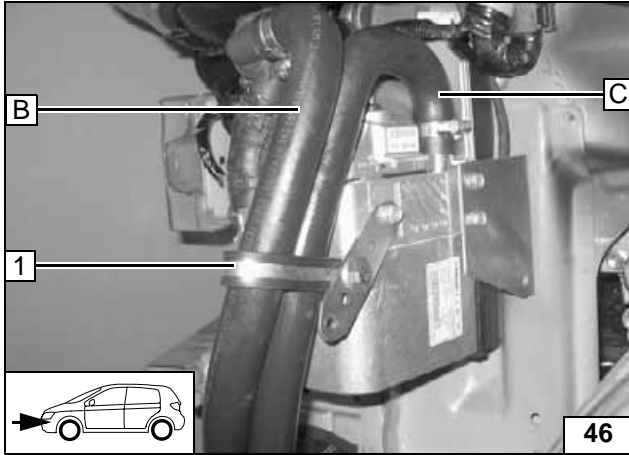
Push braided protection hoses onto hose **B** and **C**.

Cut heat shrink plastic tubing to size and shrink.

**1** 50 mm heat shrink plastic tubing [4x]



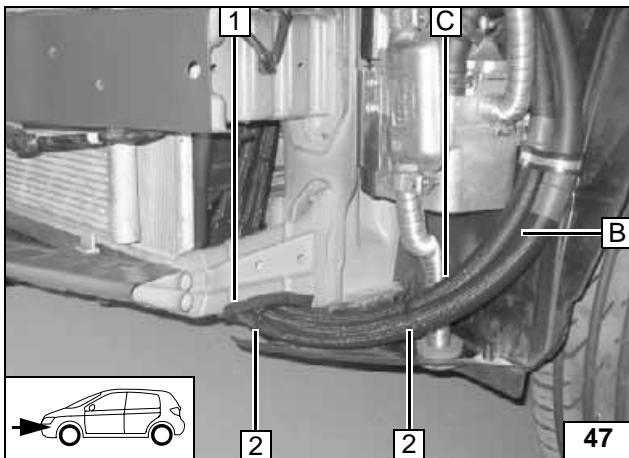
**Preparing coolant hoses**



Route coolant hoses **B** and **C** through rubber-coated p-clamp **1** as shown.



Con-  
nection on  
heater unit

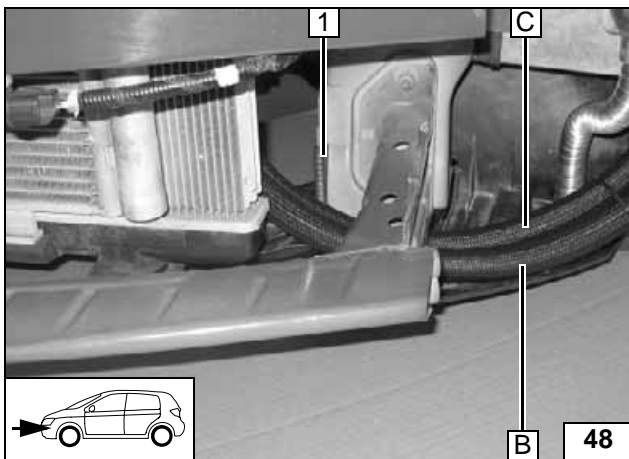


Cut 140 mm edge protection **1** to length and install.

**2** Cable tie [2x]



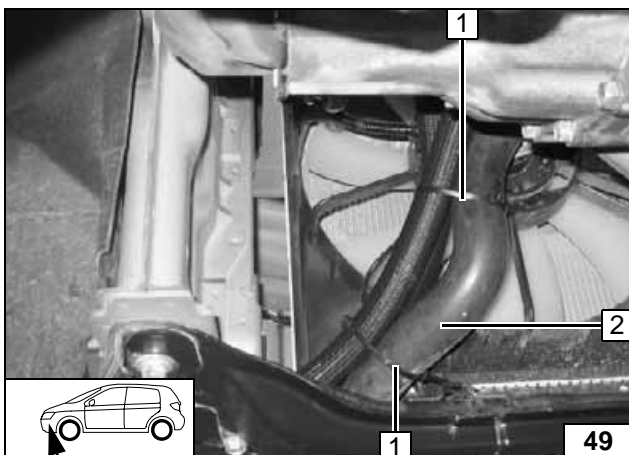
Routing of  
coolant  
hoses



Cut 80 mm edge protection **1** to length and install.



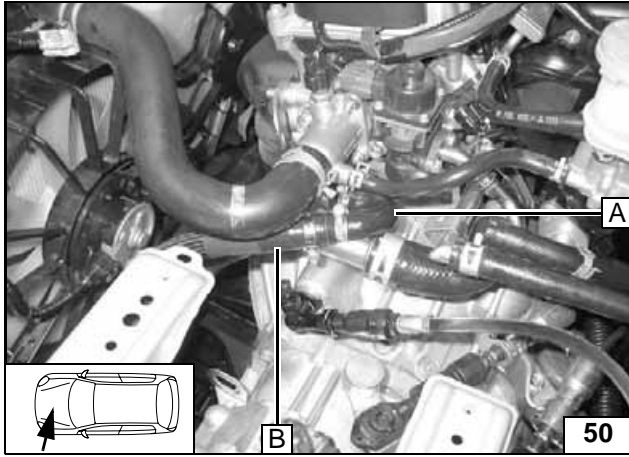
Routing of  
coolant  
hoses



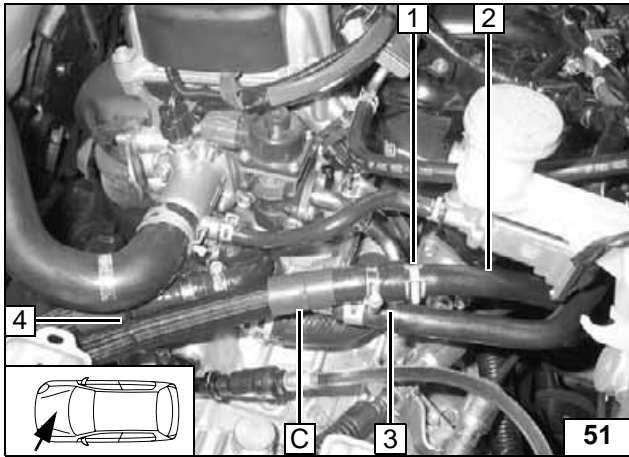
Secure coolant hoses on hose **2** with cable tie **1** [2x each].



Routing of  
coolant  
hoses



Con-  
nection to  
engine  
outlet

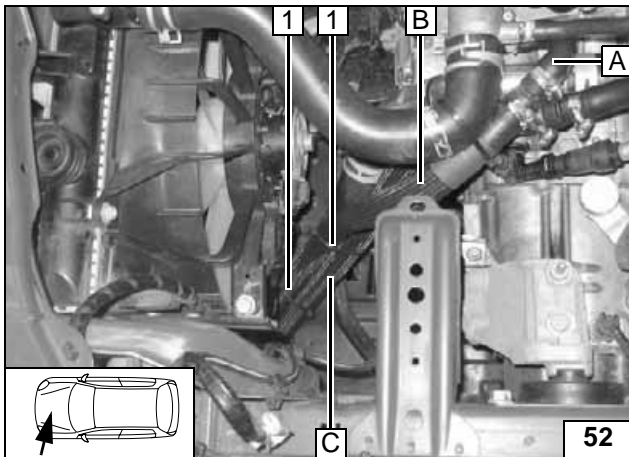


Before connecting, fill the coolant hoses with coolant.



- 1 Original vehicle spring clip
- 2 Hose section of heat exchanger inlet
- 3 Spacer bracket
- 4 Cable tie

Con-  
nection to  
heat  
exchanger  
inlet



Ensure sufficient spacing to radiator fan housing.



Routing of  
coolant  
hoses



**Coolant connection for diesel engine**

**WARNING!**

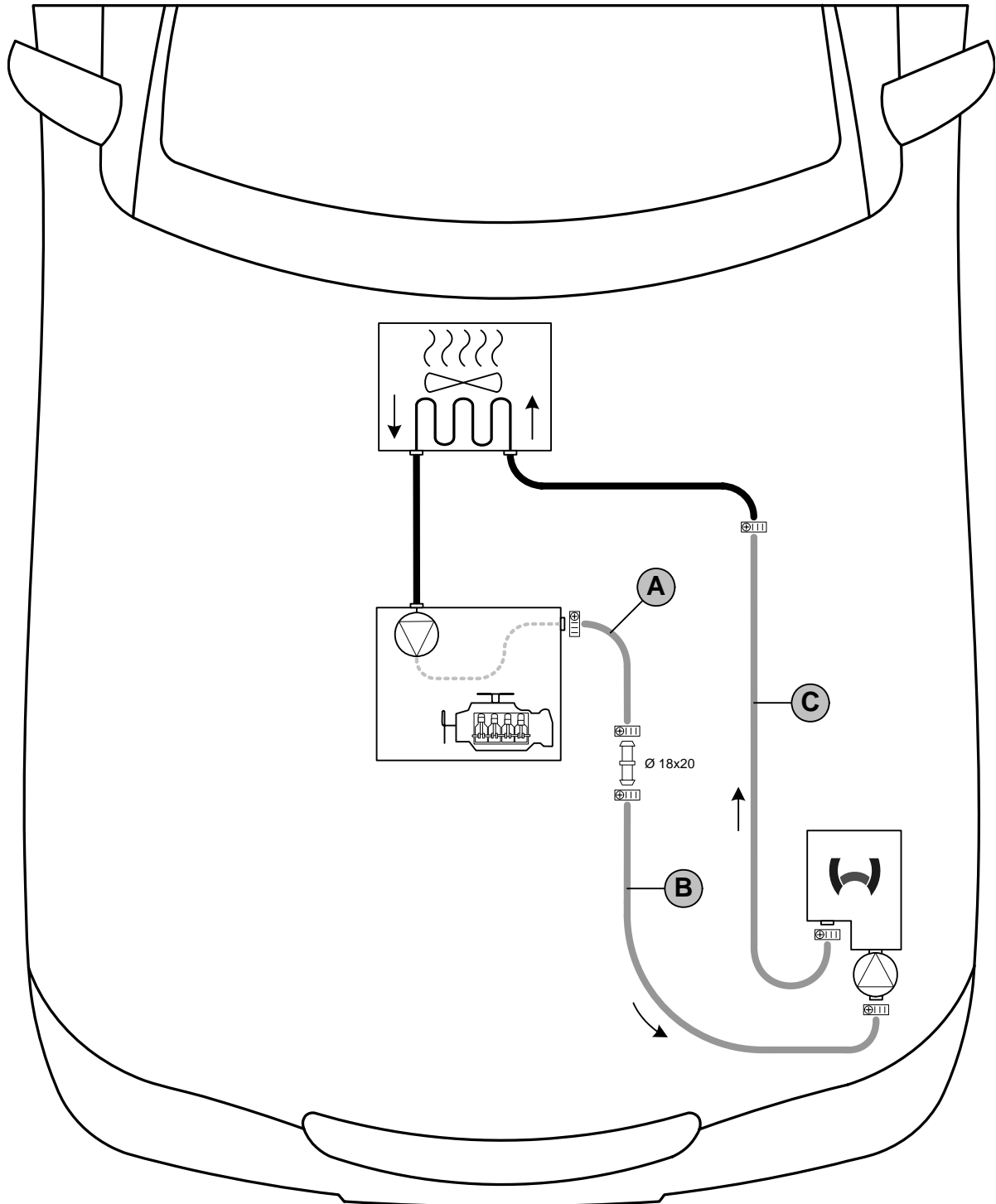
Tighten all hose clamps to 2.0 + 0.5 Nm.

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.

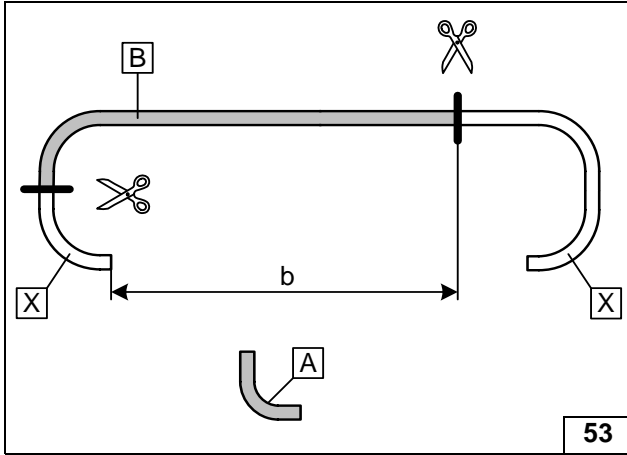
The connection should be "inline" based on the following diagram:



Coolant routing diagram

All hose clamps ⊕||| = 20-27 mm dia.!



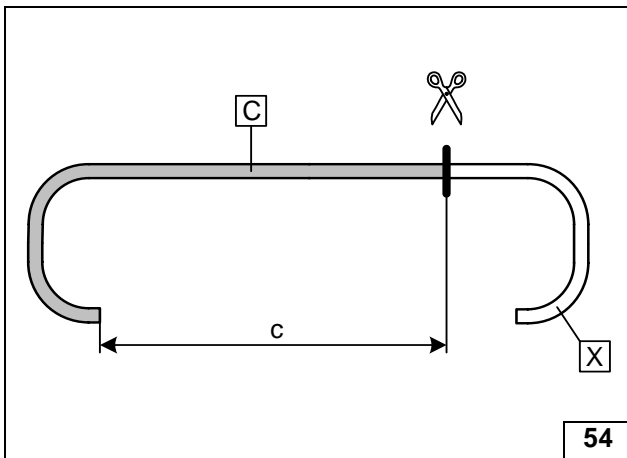


A = Molded hose  
b = 1240 mm

Discard section X



Cutting coolant hoses to length

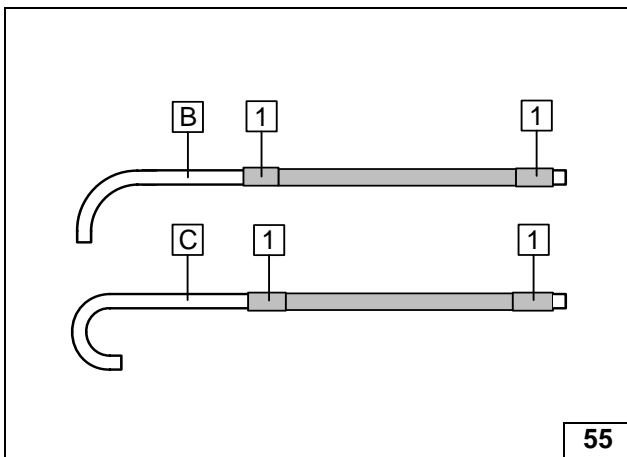


c = 1240 mm

Discard section X



Cutting coolant hoses to length

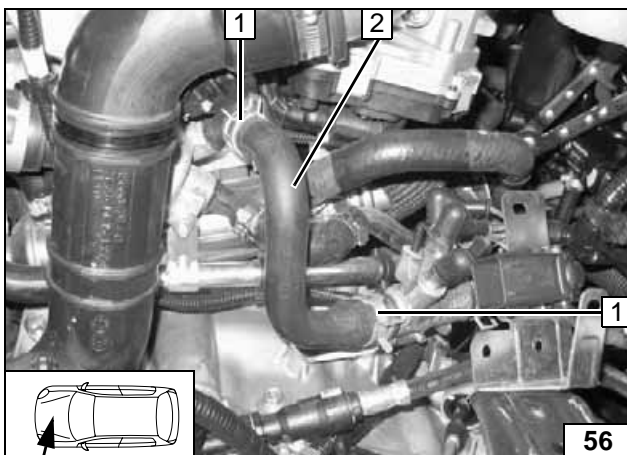


Push braided protection hoses onto hose B and C.  
Cut heat shrink plastic tubing to length.

1 50 mm heat shrink plastic tubing [4x]



Preparing coolant hoses

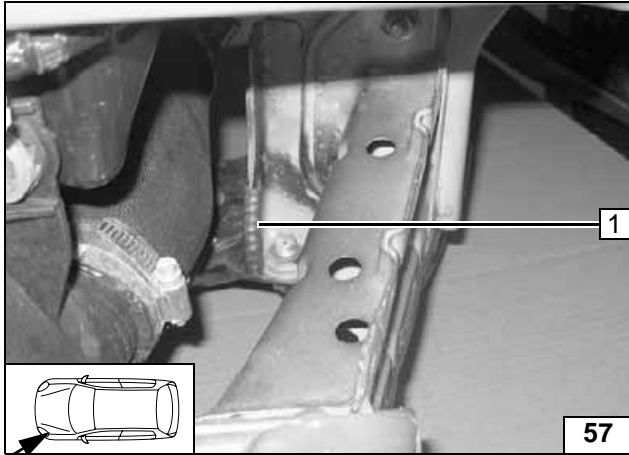


Remove original vehicle hose section from engine outlet 2 and discard, discard hose clamps 1 [2x].



Cutting point

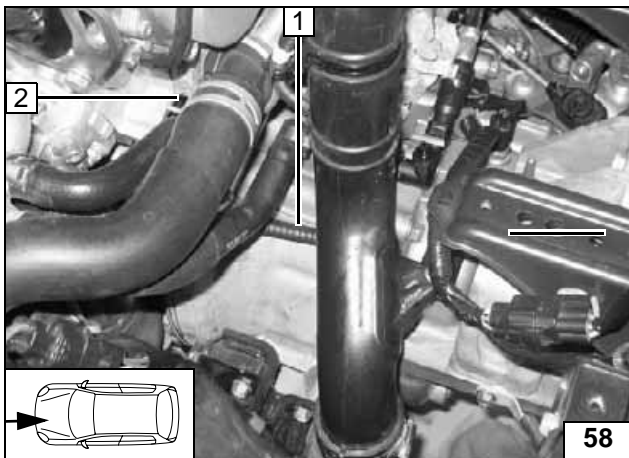




Cut 40 mm edge protection **1** and install.



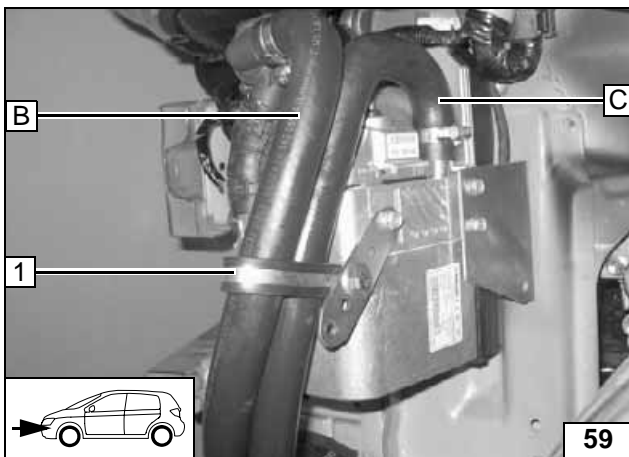
Installing edge protection



Cut 80 mm edge protection **1** to length and install.  
Turn spring clip **2** as shown.



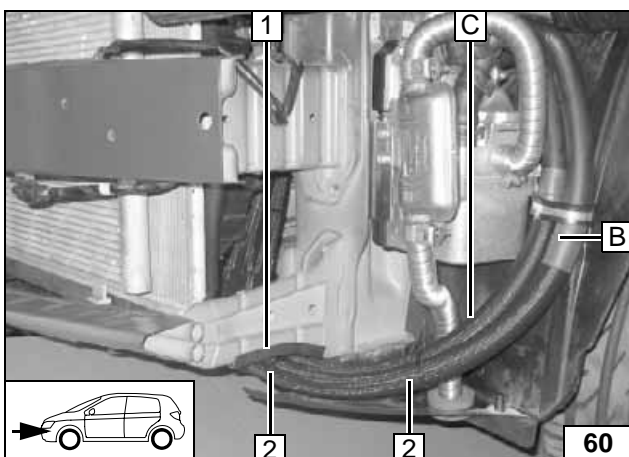
Installing edge protection



Route coolant hoses **B** and **C** through rubber-coated p-clamp **1** as shown.



Con-  
nection on  
heater unit

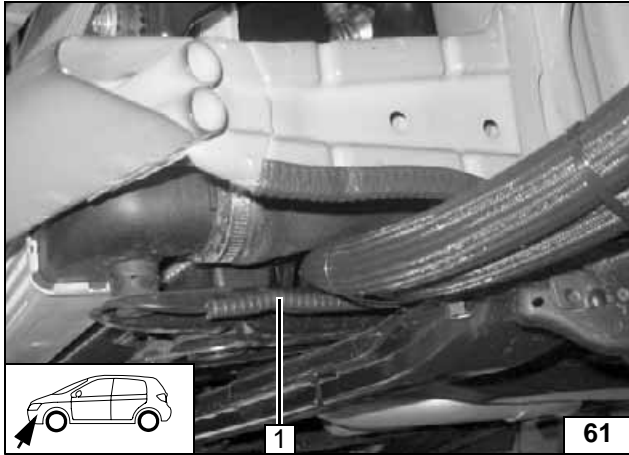


Cut 140 mm edge protection **1** to length and install.

**2** Cable tie [2x]



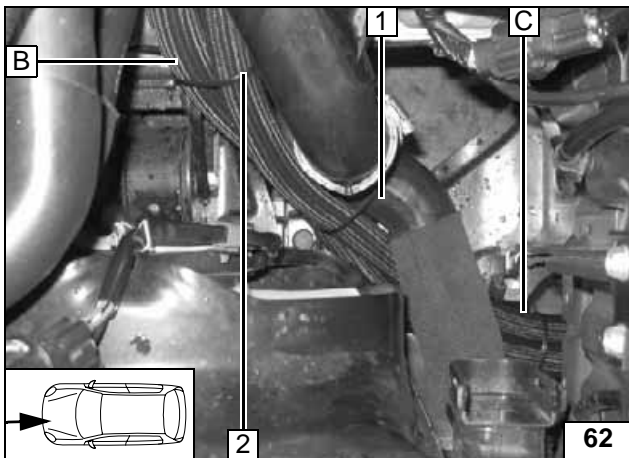
Routing of  
coolant  
hoses



Cut 140 mm edge protection **1** to length and install.



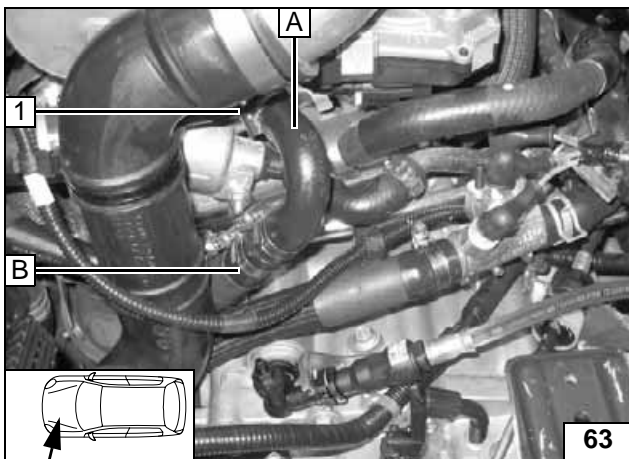
Installing edge protection



Secure coolant hoses on charge air hose with cable ties **1**. Ensure sufficient spacing to radiator fan housing.

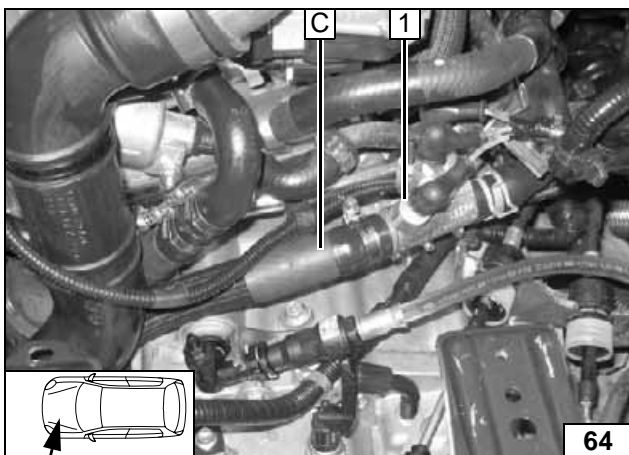
**2** Cable tie

Routing of coolant hoses



**1** Connection piece for engine outlet

Con-  
nection to  
engine  
outlet



Before connecting, fill the coolant hoses with coolant.

**1** Connection piece of heating element



Con-  
nection to  
heat  
exchanger  
inlet



**Fuel Connection**

**CAUTION!**

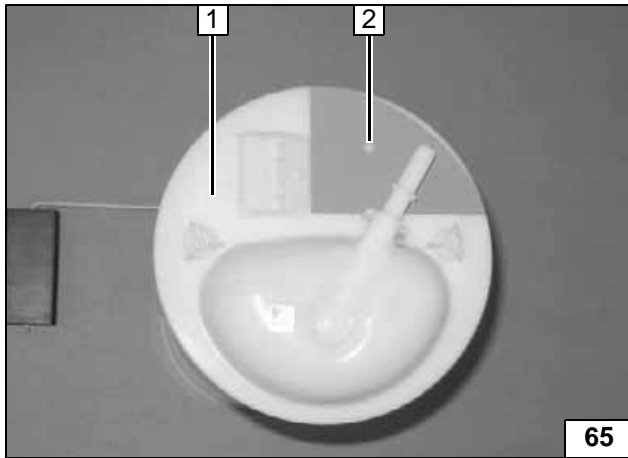
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock. Observe preliminary work. The fuel tank must be removed for all engine versions.

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 electrical diagram.



**Fuel removal on gasoline engines**

Fuel removal on gasoline engines is dependent on respective vehicle equipment!

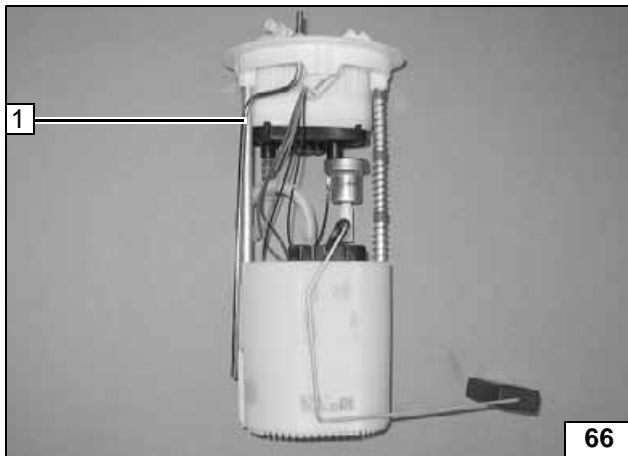
**Type EY:**

For fuel-tank sending unit as shown.

Remove fuel-tank sending unit 1 in accordance with manufacturer's specifications. Cut out drilling template for fuel-tank sending unit.

2 Lay on template, copy hole pattern and drill 6 mm dia. hole

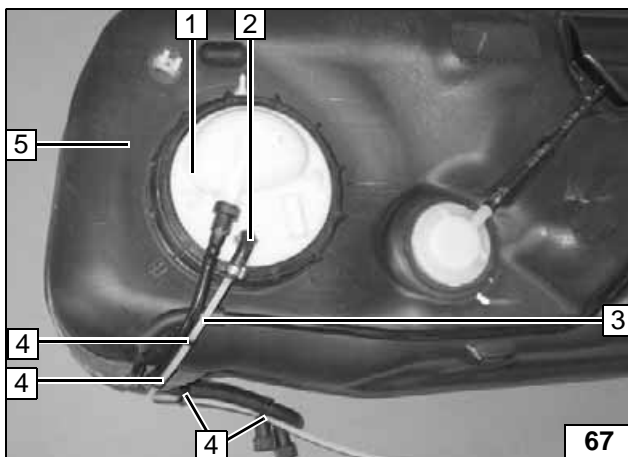
Shape fuel standpipe 1 according to template, cut to length and install, see "installation instructions".



**Removing fuel**



**Installing fuel standpipe**

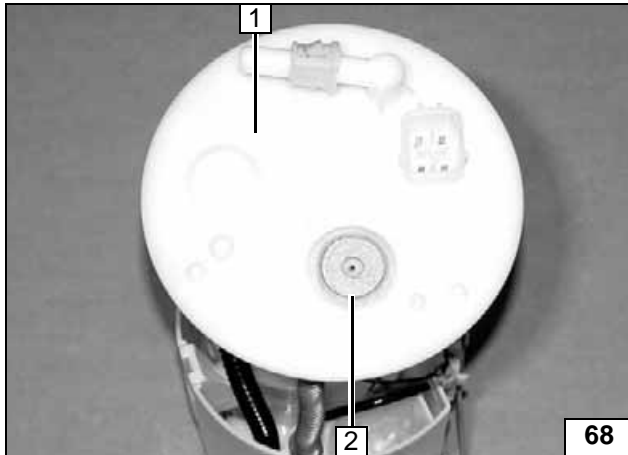


Install fuel-tank sending unit 1 in accordance with manufacturer's specifications. Shorten molded hose with 3.5 mm dia. by 10 mm. Shortened side with 8 mm dia. Caillau clamp on fuel standpipe. Following installation, install fuel tank 5 in accordance with manufacturer's specifications.

- 2 3.5 mm x 4.5 mm dia. molded hose, 8 mm dia. Caillau clamp, 10 mm dia. Caillau clamp
- 3 Fuel line
- 4 Cable tie [4x]



**Connecting fuel line**



### Type GY:

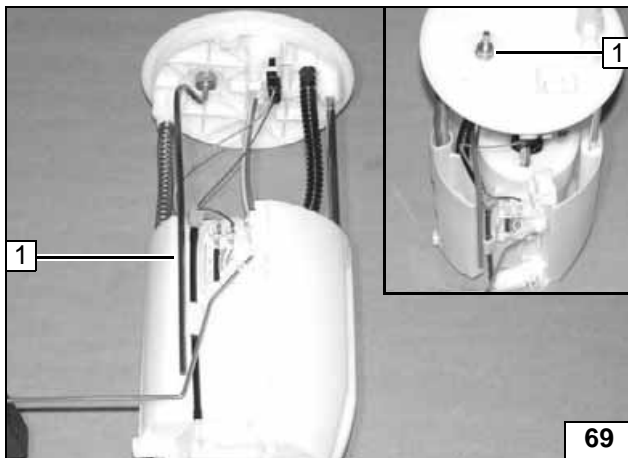
For fuel-tank sending unit as shown.

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

2 Center large diameter washer in recess, copy hole pattern, drill 6 mm dia. hole



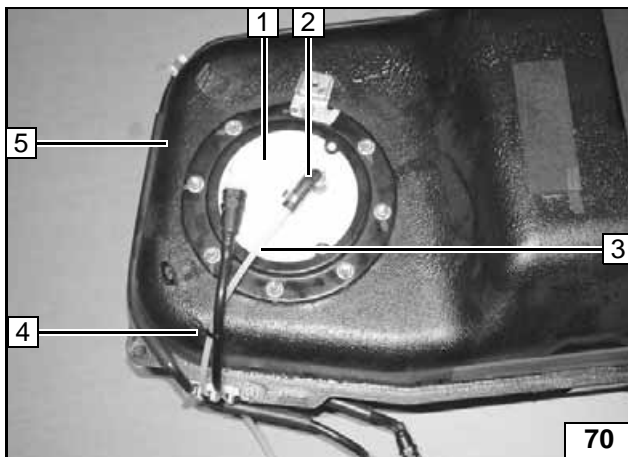
### Removing fuel



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. Shorten molded hose with 3.5 mm dia. by 10 mm. Shortened side with 8 mm dia. Caillau clamp on fuel standpipe.

Following installation, install fuel tank 5 in accordance with manufacturer's specifications.

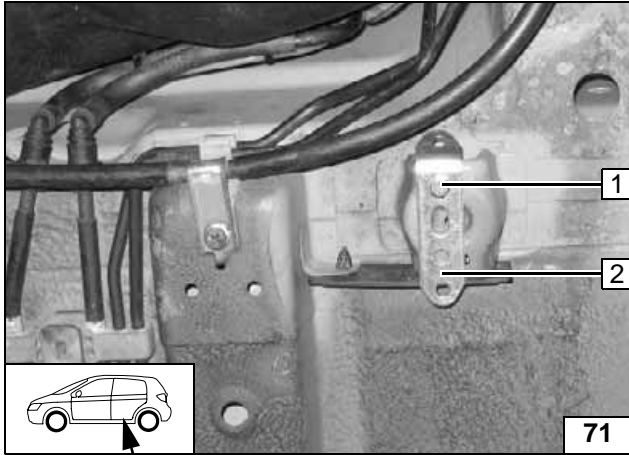
2 3.5 mm x 4.5 mm dia. molded hose, 8 mm dia. Caillau clamp, 10 mm dia. Caillau clamp

3 Fuel line

4 Cable tie



### Connecting fuel line



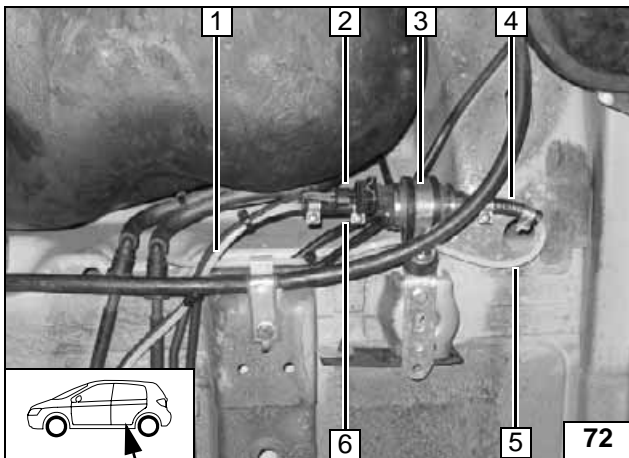
## Metering pump on gasoline engine

Bend perforated bracket **2** in accordance with template and install as shown.

- 1** Original vehicle hole, M6x20 bolt, M6 flanged nut



**Installing metering pump**



Fuel line **5** from fuel standpipe on intake side and fuel line **1** to heater unit on pressure side of metering pump.

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

- 2** Wiring harness of metering pump, connector mounted
- 3** Metering pump, rubber-coated p-clamp, silent block, M6 flanged nut [2x]
- 4** Hose section, 10 mm dia. hose clamp [2x]
- 6** Hose section, 10 mm dia. hose clamp [2x]



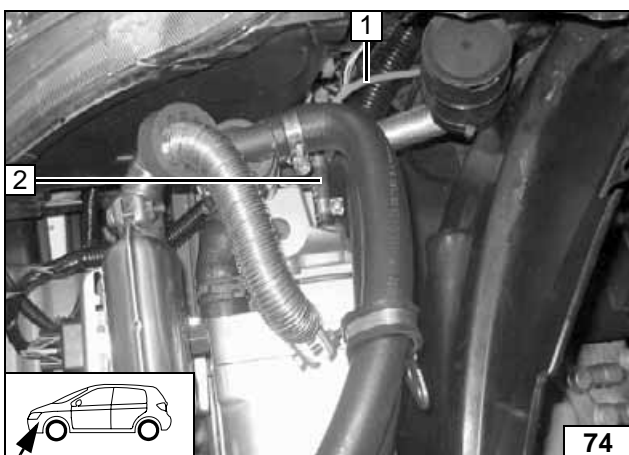
**Installing metering pump**



Route fuel line and wiring harness of metering pump **1** along original vehicle lines in corrugated tube to installation location of heater unit and fasten with cable tie.

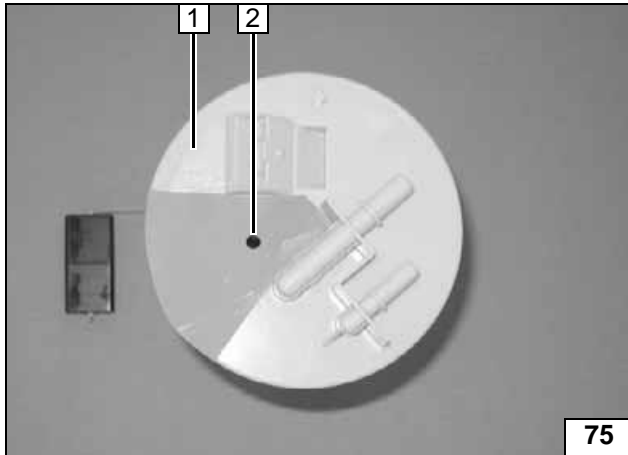


**Installing lines**



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

**Con-  
nection on  
heater unit**

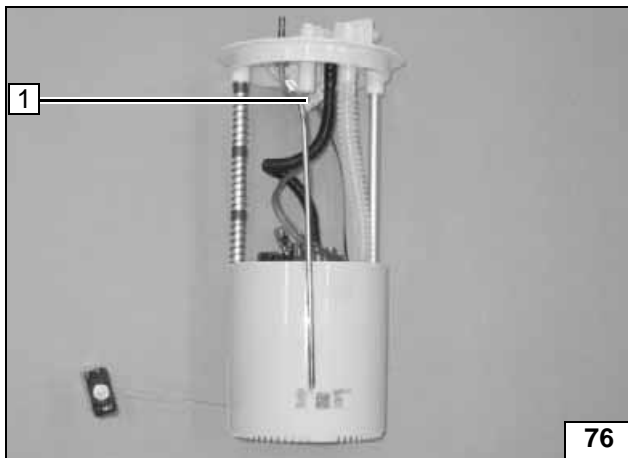


75

**Fuel removal on diesel engines**

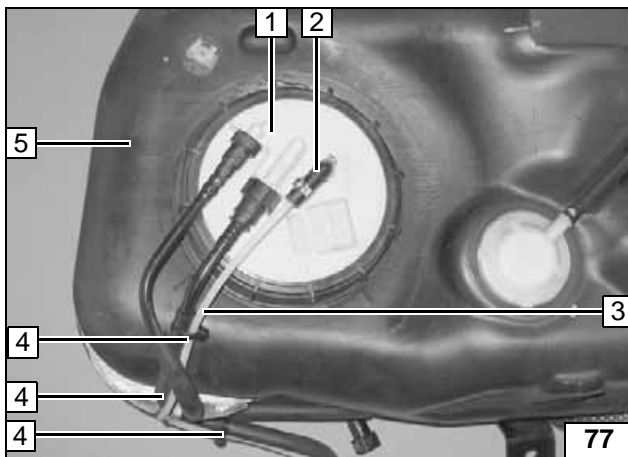
Remove fuel-tank sending unit 1 in accordance with manufacturer's specifications. Cut out drilling template for fuel-tank sending unit.

- 1 Fuel-tank sending unit
- 2 Lay on template, copy hole pattern and drill 6 mm dia. hole



76

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



77

Install fuel-tank sending unit 1 in accordance with manufacturer's specifications. Shorten molded hose with 3.5 mm dia. by 10 mm. Shortened side with 8 mm dia. Caillau clamp on fuel standpipe. Following installation, install fuel tank 5 in accordance with manufacturer's specifications.

- 2 3.5 mm x 4.5 mm dia. molded hose, 8 mm dia. Caillau clamp, 10 mm dia. Caillau clamp
- 3 Fuel line
- 4 Cable tie [3x]



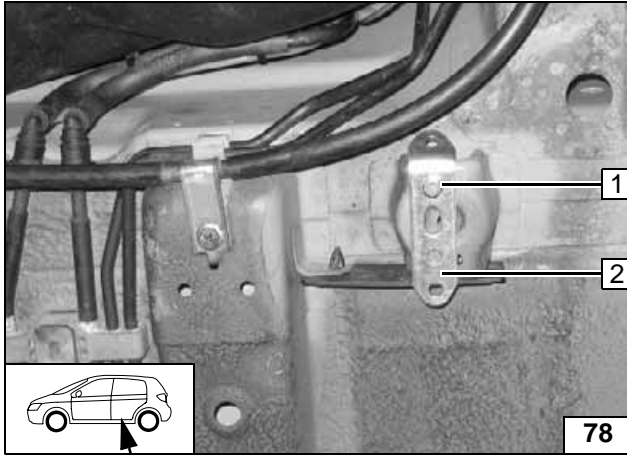
**Removing fuel**



**Installing fuel standpipe**



**Connecting fuel line**



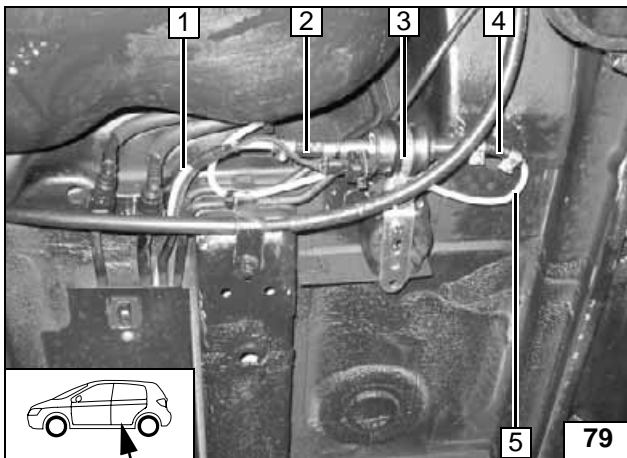
**Metering pump on diesel engines**

Bend perforated bracket **2** in accordance with template and install as shown.

- 1** Original vehicle hole, M6x20 bolt, M6 flanged nut



**Installing metering pump**



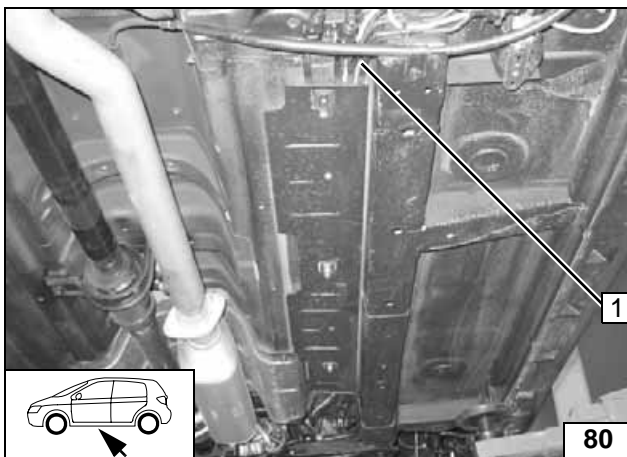
Fuel line **5** from fuel standpipe on intake side and fuel line **1** to heater unit on pressure side of metering pump.

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

- 2** Hose section, 10 mm dia. hose clamp [2x]
- 3** Metering pump, rubber-coated p-clamp, silent block, M6 flanged nut [2x]
- 4** Hose section, 10 mm dia. hose clamp [2x]



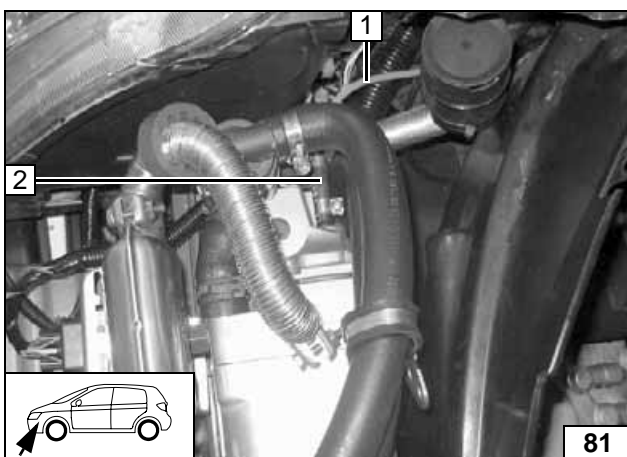
**Installing metering pump**



Route fuel line and wiring harness of metering pump **1** along original vehicle lines in corrugated tube behind cover to installation location of heater unit and fasten with cable tie.

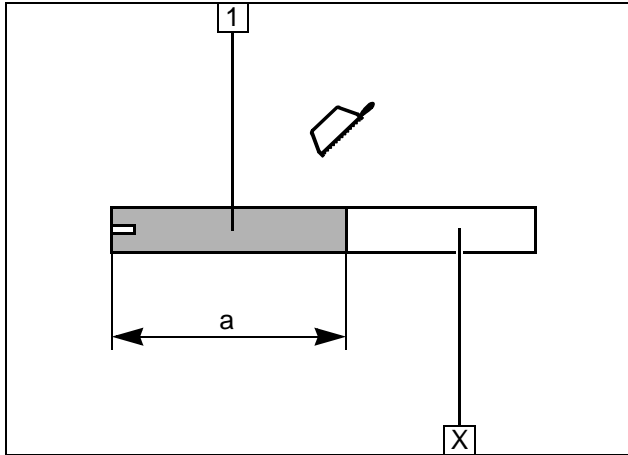
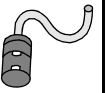


**Installing lines**



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

**Con-  
nection on  
heater unit**

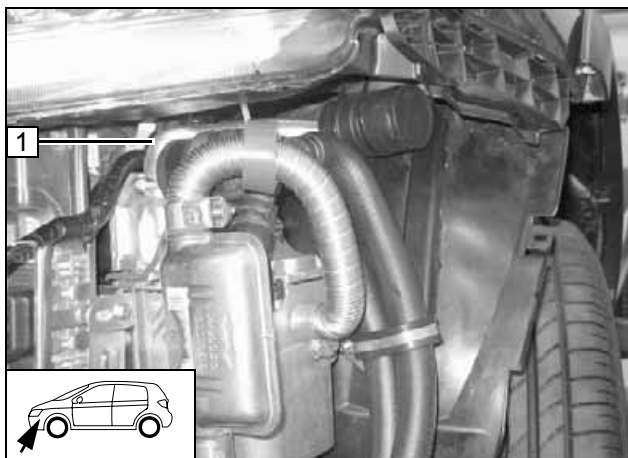


**Combustion air**

- 1 Combustion air pipe  
a = 280 mm

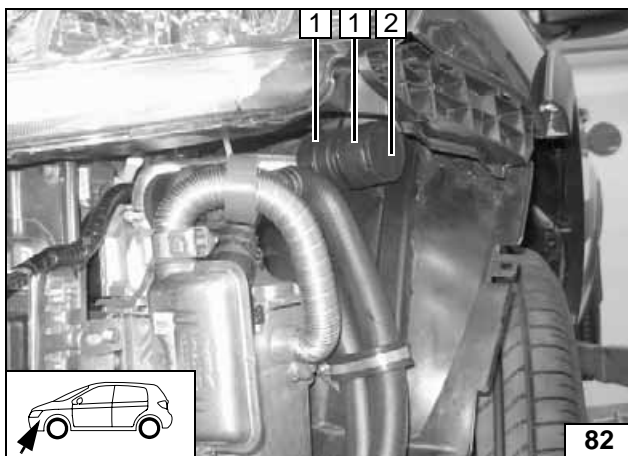
Discard section X

Cutting combustion air pipe to length



- 1 Combustion air pipe, 27 mm dia. hose clamp

Installing combustion air pipe

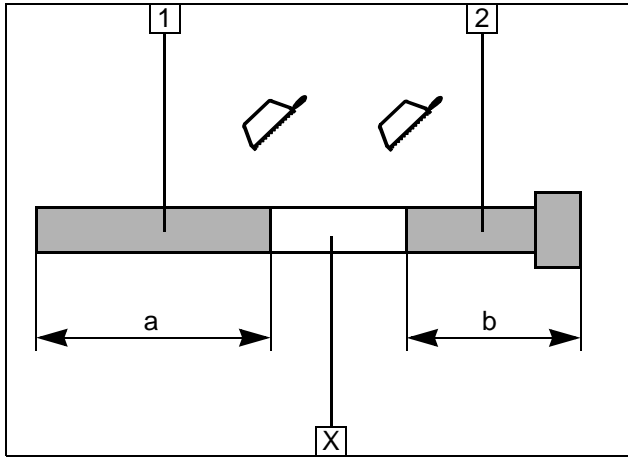
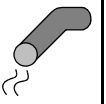


Fasten muffler 2 at original vehicle holes with cable ties 1 [2x] as shown.



Installing muffler



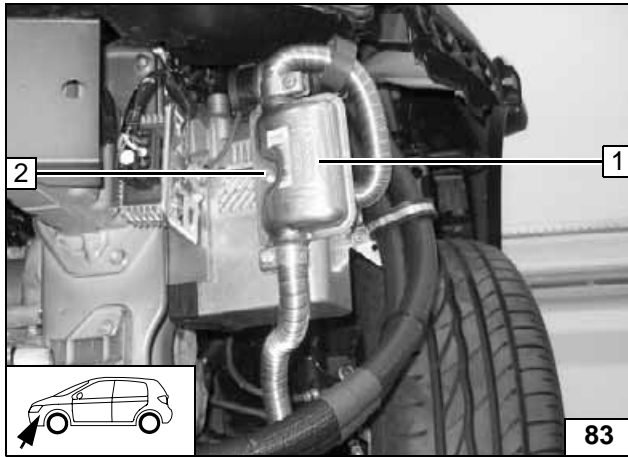


**Exhaust system**

- 1 Exhaust pipe  
a = 200 mm
- 2 Exhaust end section  
b = 230 mm

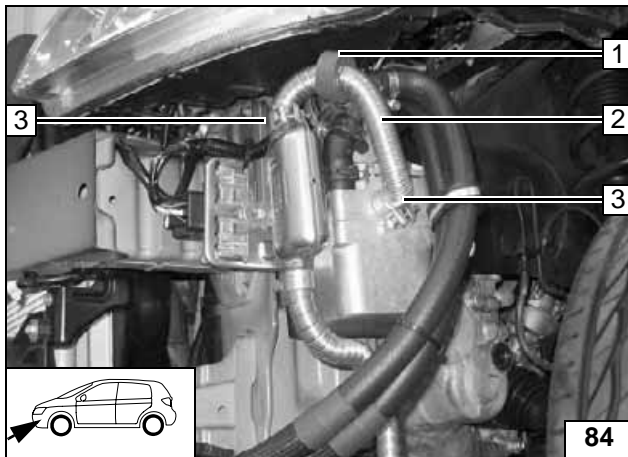
Discard section X

**Preparing exhaust pipe**



- 1 Exhaust muffer
- 2 M6x12 bolt, spring lockwasher, M6x30 spacer nut

**Installing exhaust muffer**

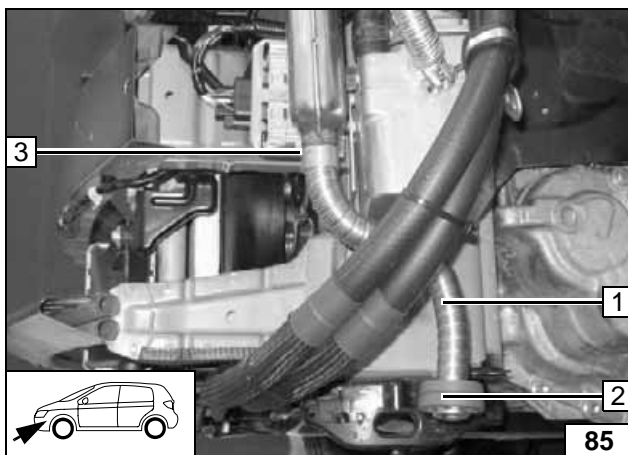


Ensure sufficient distance to neighboring components.

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



**Installing exhaust pipe**

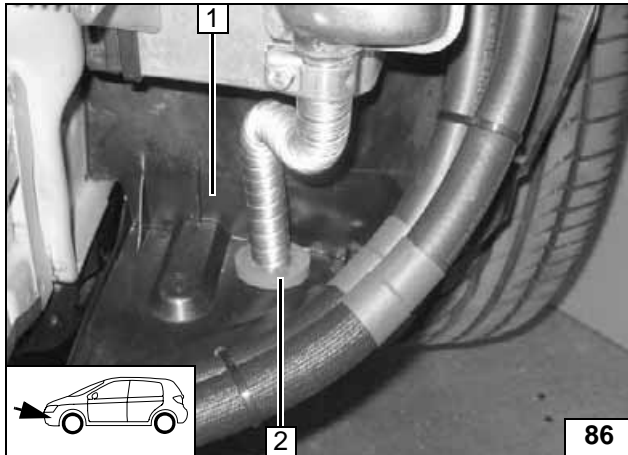


Ensure sufficient distance to neighboring components.

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



**Installing exhaust end section**

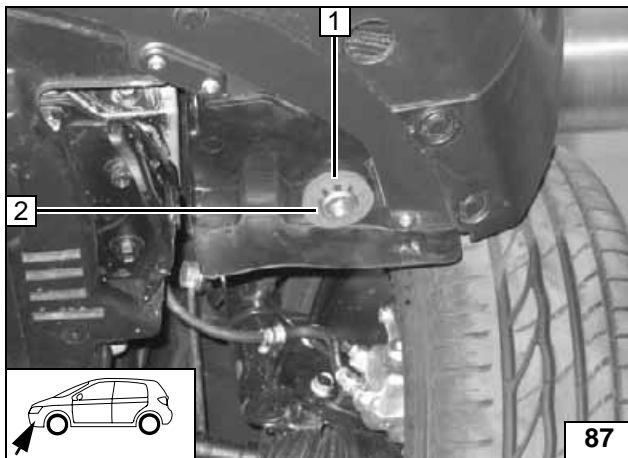


Reinstall wheel well trim **1** on left. Drill out existing hole at position **2** to 42 mm dia.

**2** Red (rt) rubber isolator with groove



**Installing exhaust end section**

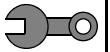


Ensure sufficient distance to neighboring components.

**1** Red (rt) rubber isolator with groove  
**2** Exhaust end section



**Positioning 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  
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**Operating Instructions for End Customer**



Please remove page and add to the vehicle operating instructions.



**Note:**

We recommend matching the heating time to the driving time.

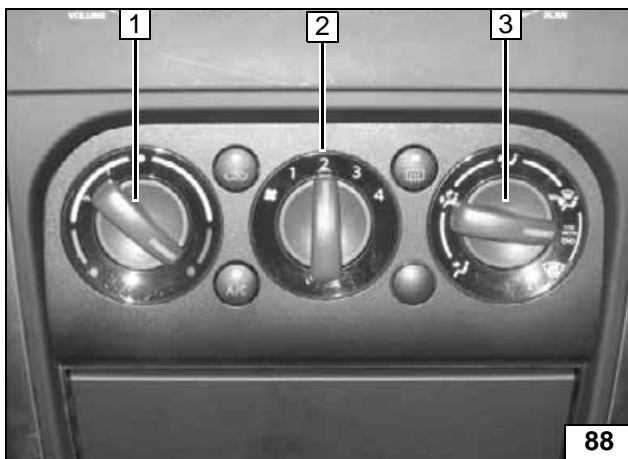
Heating time = driving time

**Example:**

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

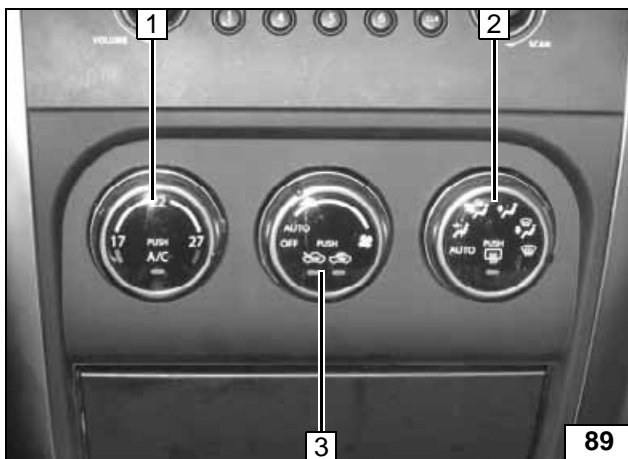
If the summer/winter switch option has been installed, this must be switched in accordance with the time of year. The heater unit will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter  heat and in the position Summer .

Before parking the vehicle, make the following settings:



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

**Manual air conditioning**



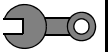
**Note:**

"AC" operation indicator flashes during heating.

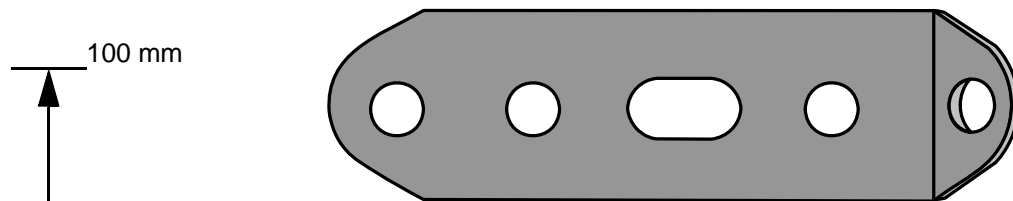
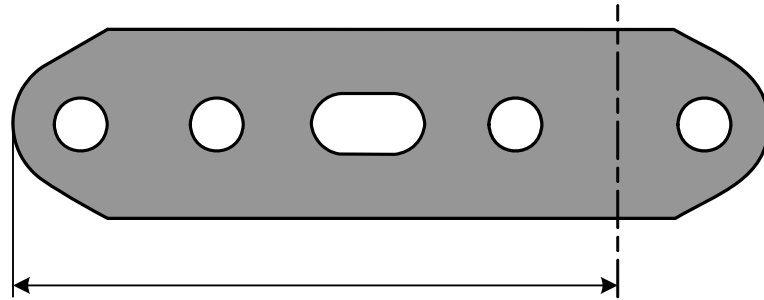
- 1 Set temperature to "max."
- 2 Air outlet to windshield
- 3 Set fan to approx. 1/3



**Automatic air-conditioning**



### Template for Perforated Bracket for Metering Pump



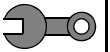
Scale 1:1

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

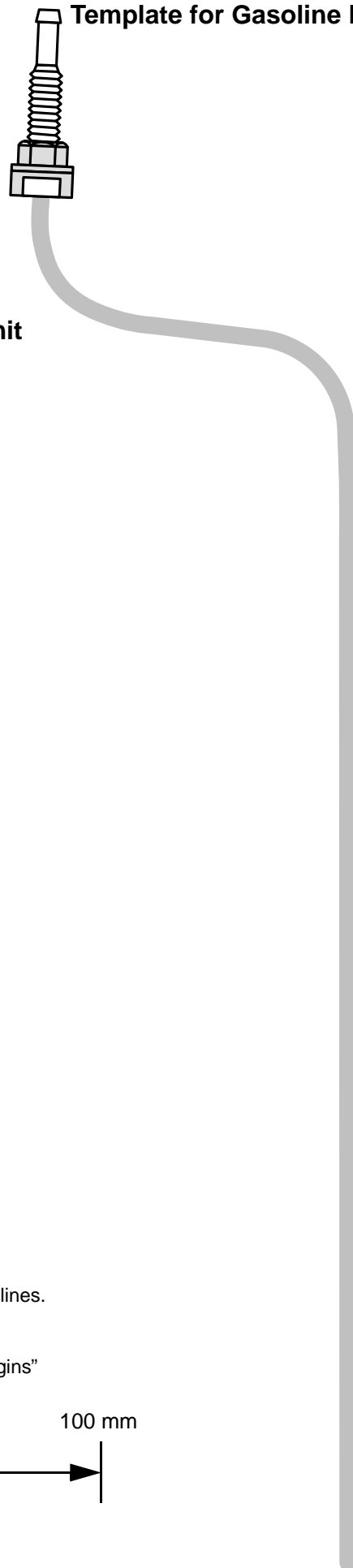
Set the printer settings to "no margin" or "minimize margins"  
and 100% of the normal size.

100 mm

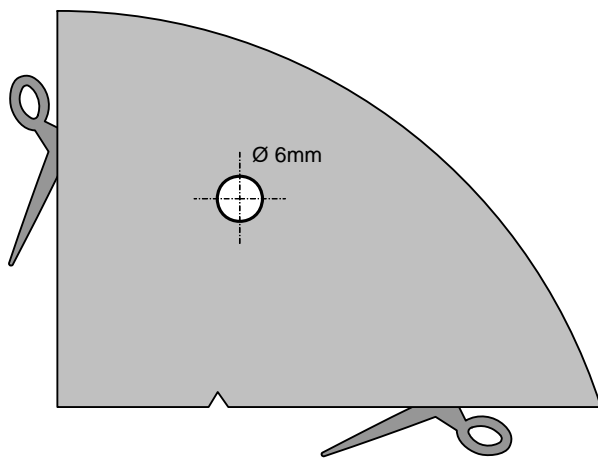
0




Template for Gasoline Fuel Standpipe  
Type EY



Template for Gasoline Fuel-Tank Sending Unit  
Type EY



100 mm



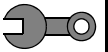
Scale 1:1

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

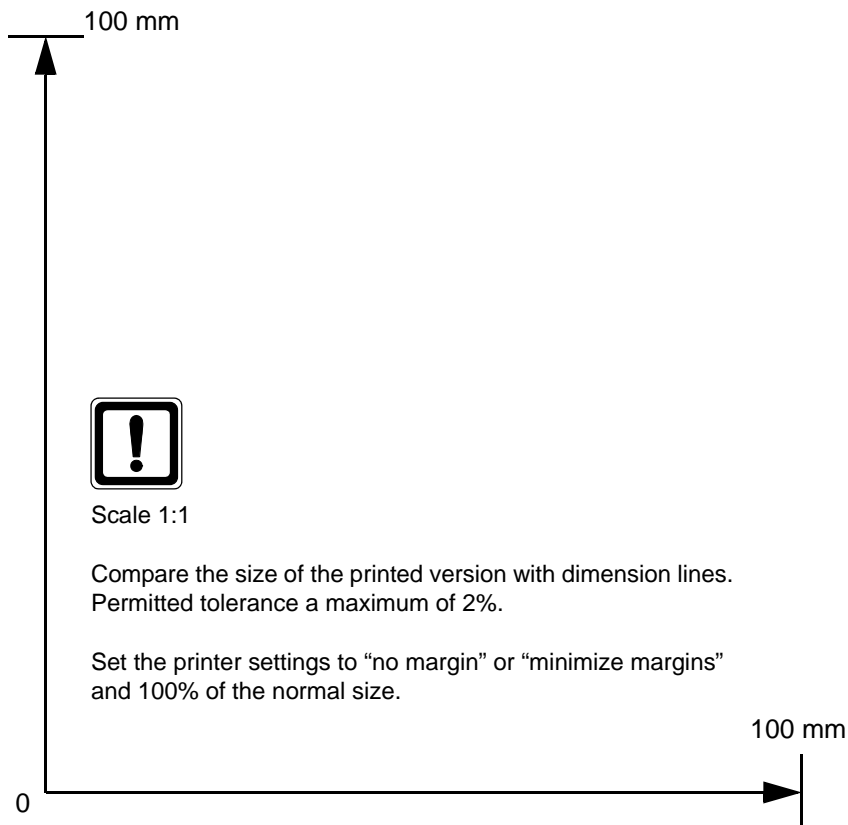
Set the printer settings to "no margin" or "minimize margins"  
and 100% of the normal size.

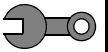
100 mm

0



Template for Gasoline Fuel Standpipe  
Type GY

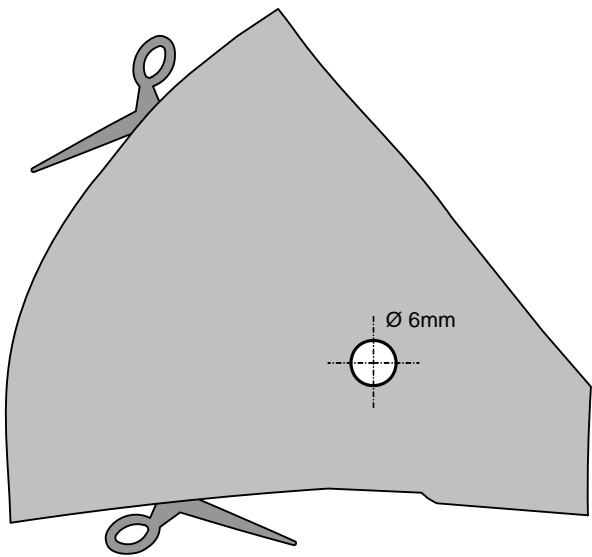





Template for Diesel Fuel Standpipe



Template for Fuel-Tank Sending Unit on diesel vehicles



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