

Water Heater Unit



Thermo Top E Additional Heater

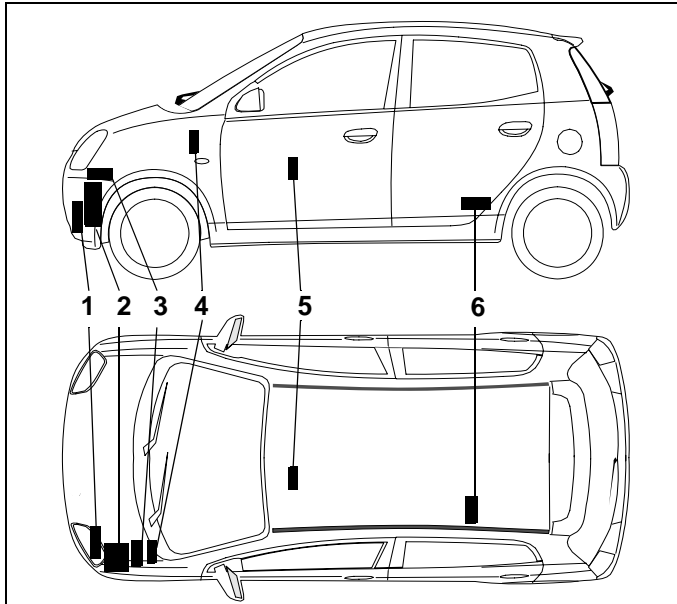
e1
00 0003

Thermo Top C Additional Heater

e1
00 0002

Thermo Top P Additional Heater

e1
00 0104



Installation Instructions

Suzuki Swift Suzuki Swift 4WD

Gasoline from Model 2005
and
Diesel from Model 2006

Applicable to Chassis No.: TSMMZ...
JSAEZ...

For left-hand drive vehicles only

Legend for Figure 1:

- 1 Exhaust muffler
- 2 Thermo Top C/E heater unit
- 3 Combustion-air intake muffler
- 4 Blade-type fuse holder
- 5 Digital timer
- 6 Metering pump



WARNING!
Hazard warning:

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

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

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

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

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

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Validity

Manufacturer	Model	Type	EG-BE No./ABE
Suzuki	Swift	MZ	e4*2001/116*0090...
Suzuki	Swift	EZ	e4*2001/116*0102...

Engine type	Engine model	Output in kW	Displacement in cm ³
Z13DT	Diesel	51	1248
D13A	Diesel	51	1248
M13A	Gasoline	68	1328
M15A	Gasoline	74.5	1490
M16A	Gasoline	92	1586

Vehicle models, engine types, equipment variants as well as national specifications, which are 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 Swift Gasoline from MY 05	1303675B
or		
1	Installation Kit for Suzuki Swift Diesel from MY 06	1311134A

Optional heater control either:

Description	Order No.:
Heater controls	See Suzuki price list

Optional auxiliary heater only 1.3 DDIS:

Quantity	Description	Order No.:
1	Auxiliary heating kit	65954B

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 Swift vehicles with a Gasoline engine and diesel engine - for validity, see page 2 - from model year 2005/2006 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).

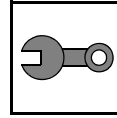
Special Tools

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

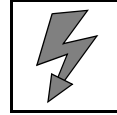
Explanatory Notes on Document

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.

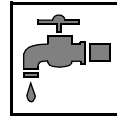
Mechanical work



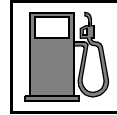
Electrical connection



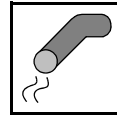
Coolant connection



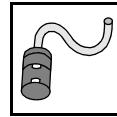
Fuel connection



Exhaust system



Combustion air



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



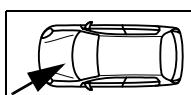
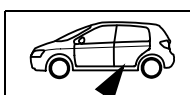
Specific risk of fire or explosion.



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



Reference to a special technical feature.



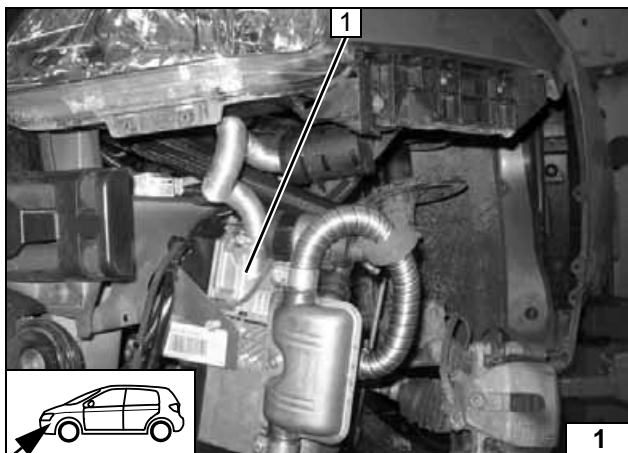
The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

Preliminary Work

WARNING!

- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Completely remove the battery.
- Remove the air filter complete with the intake hose (not M16A).
- Open fuel tank cap, ventilate tank.
- Close the tank cap again.
- Detach the wheel well trim on the right and left.
- Remove bumper.
- Remove the left wheel well trim.
- Remove the front and rear muffler.
- Remove the lower cover of the fuel line (on diesel vehicles only).
- Remove the fuel tank in accordance with the manufacturers specifications.
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the glove compartment.
- Remove the radio (hexagon bolt from the glove compartment).
- Remove the A/C control panel.
- Remove the lower trim of the center console in the footwell of the front passenger side (only with Telestart).
- Remove the A-pillar trim on the right (only with Telestart).
- Remove the glove compartment on the front passenger side (only with Telestart T100 HTM).

Remove page 33 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



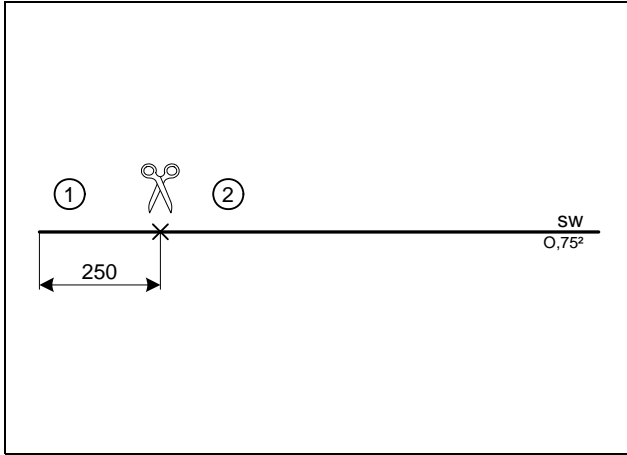
Heater unit installation location

1 Heater unit

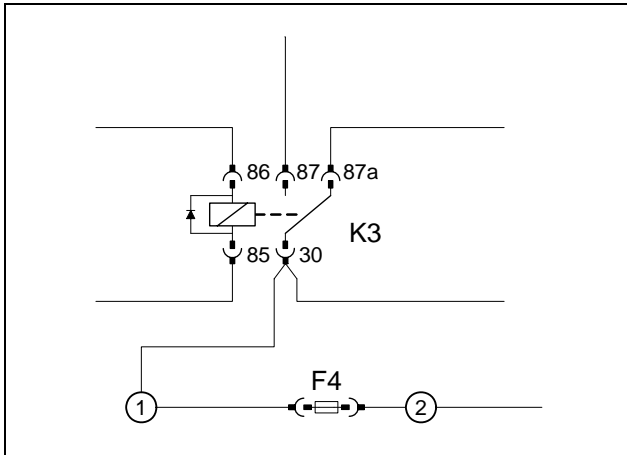
Installation location



Preparing electrical system
Automatic air-conditioning only



Cutting wires to length



Produce connections as shown in wiring diagram. Install wire section 2 in protective sleeving provided

Preparing fuse F4

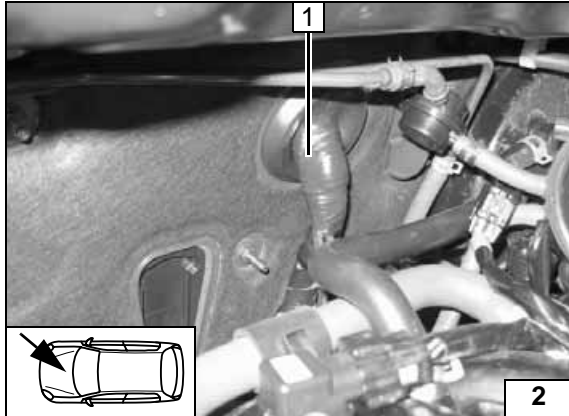


Electrical Connections

Wiring harness pass through

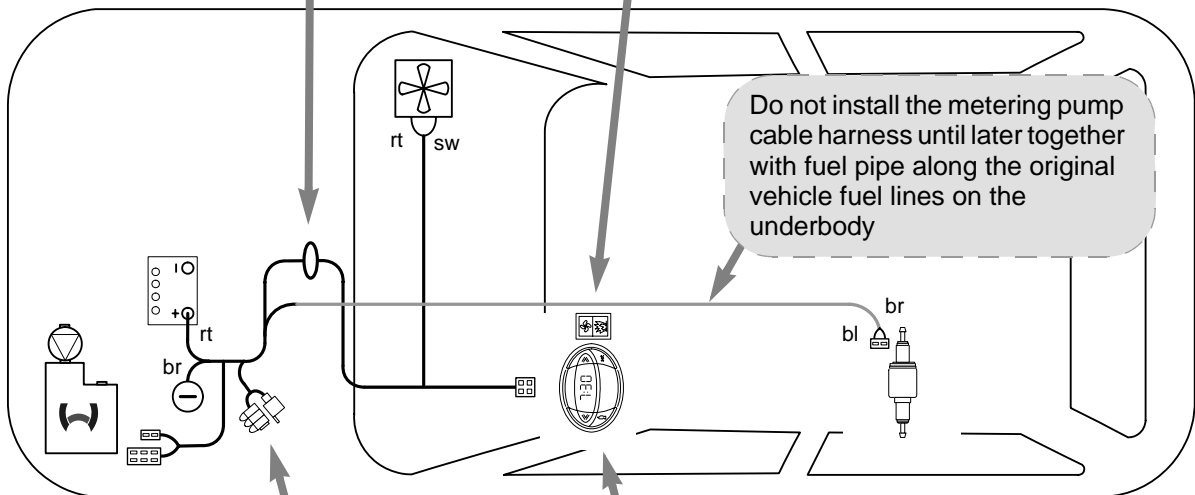
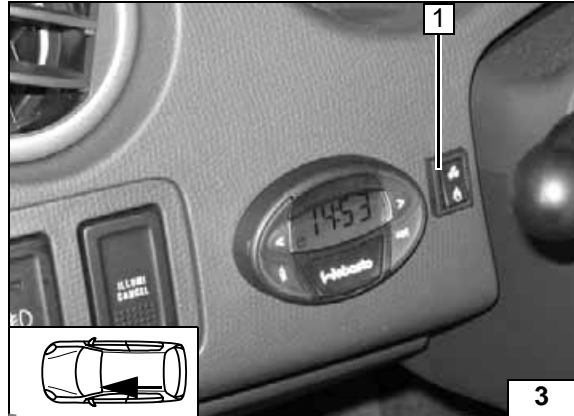
Strip cable pass through, guide through cable, insulate cable pass through again.

- 1 Cable pass through

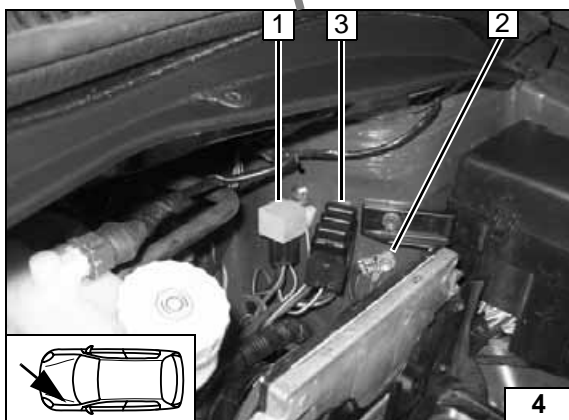


Summer/winter switch option

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

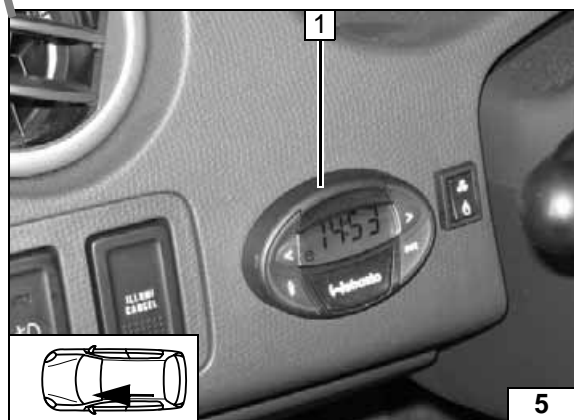


Electrical diagram



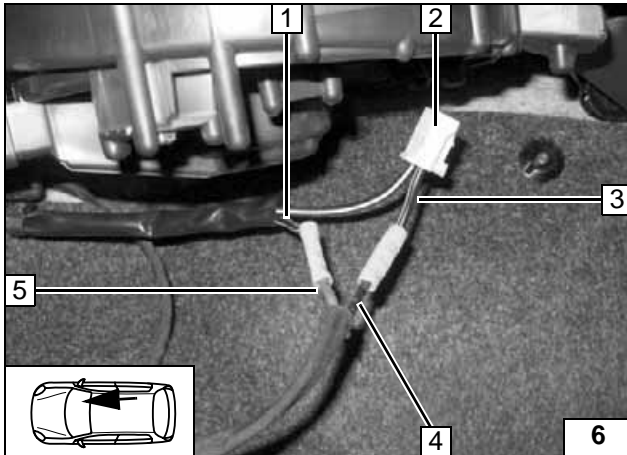
Fuse holder, relay K3

- 1 K3 relay, 5.5x13 self-tapping screw
- 2 Fuse holder, 5.5x13 self-tapping screw
- 3 Ground wire on original vehicle ground point



Digital timer

- 1 Digital timer



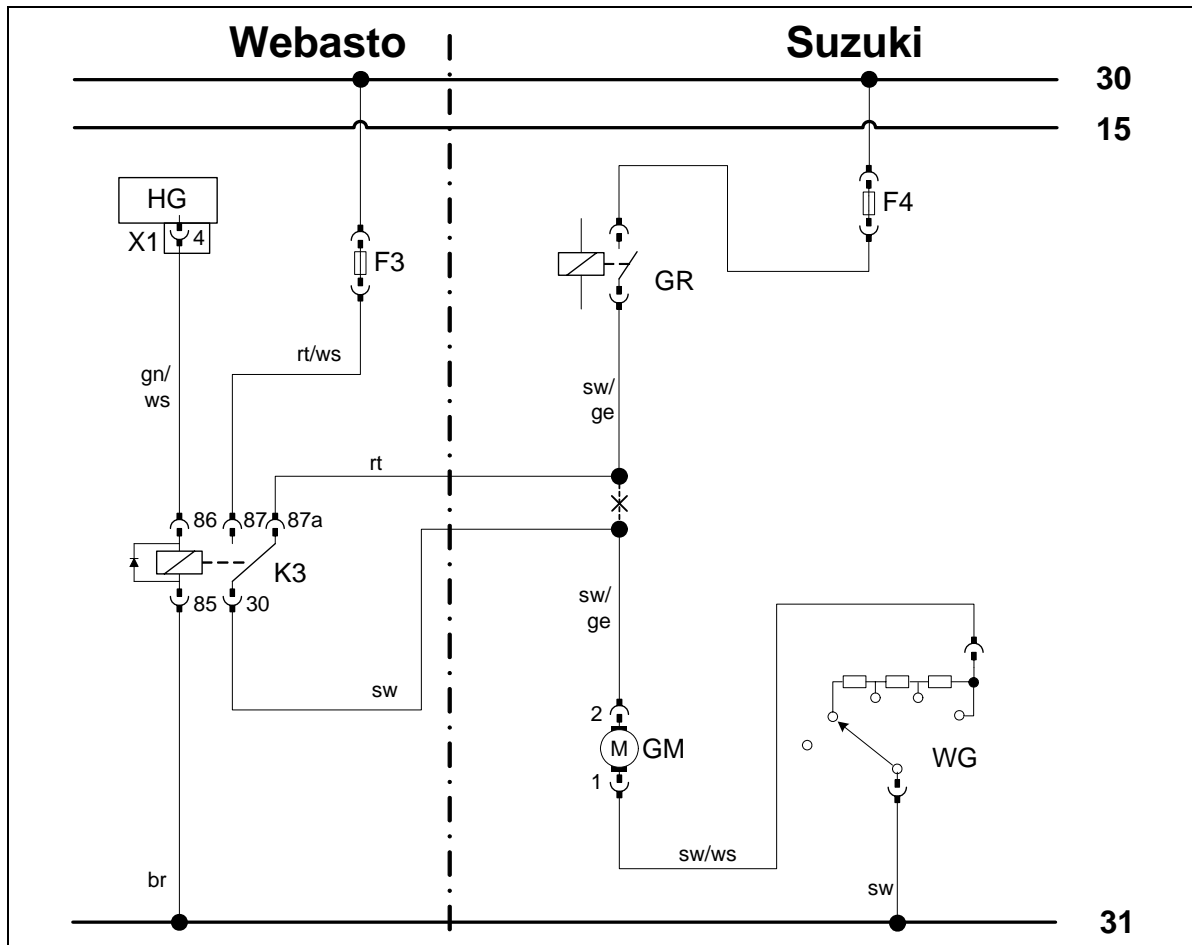
Fan controller for manual air conditioning

Integration on 2-pin connector 2 from fan motor.
Produce connections as shown in wiring diagram.

- 1 Black/yellow (sw/ge) wire of fan relay
- 3 Black/yellow (sw/ge) connector of fan motor
- 4 Black (sw) wire from K3/30
- 5 Red (rt) wire from K3/87a



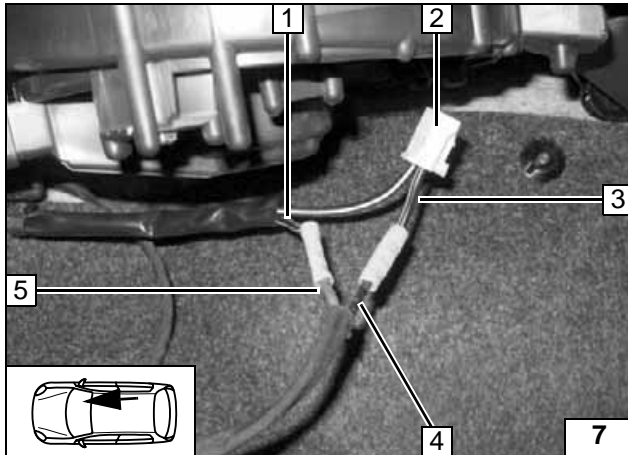
Connect-
ing fan-mo-
tor



Wiring
diagram

Webasto components		Suzuki Swift components		Colors and symbols	
HG	Heater unit TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater unit connector	F4	Fuse 30A	ws	white
F3	25 A fuse	WG	Resistor group	sw	black
K3	Fan relay	GR	Fan relay	br	brown
				gn	green
				ge	yellow
				X	Cutting point
Wiring colors may vary.					

Legend



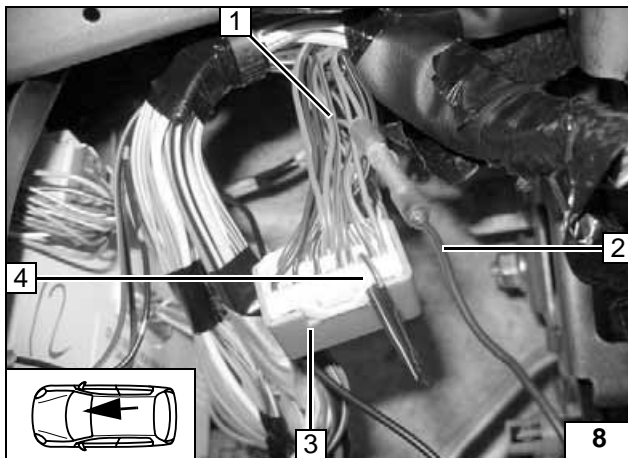
Automatic air-conditioning fan controller

Integration on 2-pin connector G05 2 from fan motor.
Produce connections as shown in wiring diagram.

- 1 Black/yellow (sw/ge) wire of fan relay
- 3 Black/yellow (sw/ge) connector of fan motor
- 4 Black (sw) wire from K3/30
- 5 Red (rt) wire from K3/87a



**Connect-
ing fan-mo-
tor**

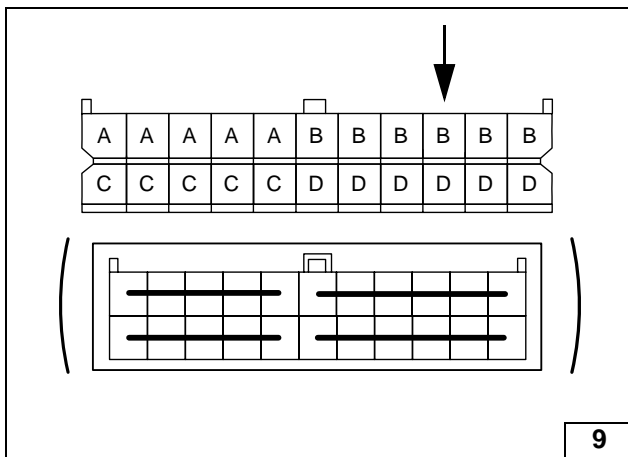


Integration on connector G31 3.
Connector G31 (with blue cap) is fastened with adhesive tape on cable under instrument carrier.
Produce connections as shown in wiring diagram.

- 1 Red/black (rt/sw) wire of connector G58/8
- 2 Black (sw) wire of F4
- 4 Insulate red/black (rt/sw) connector G31/B and tie back



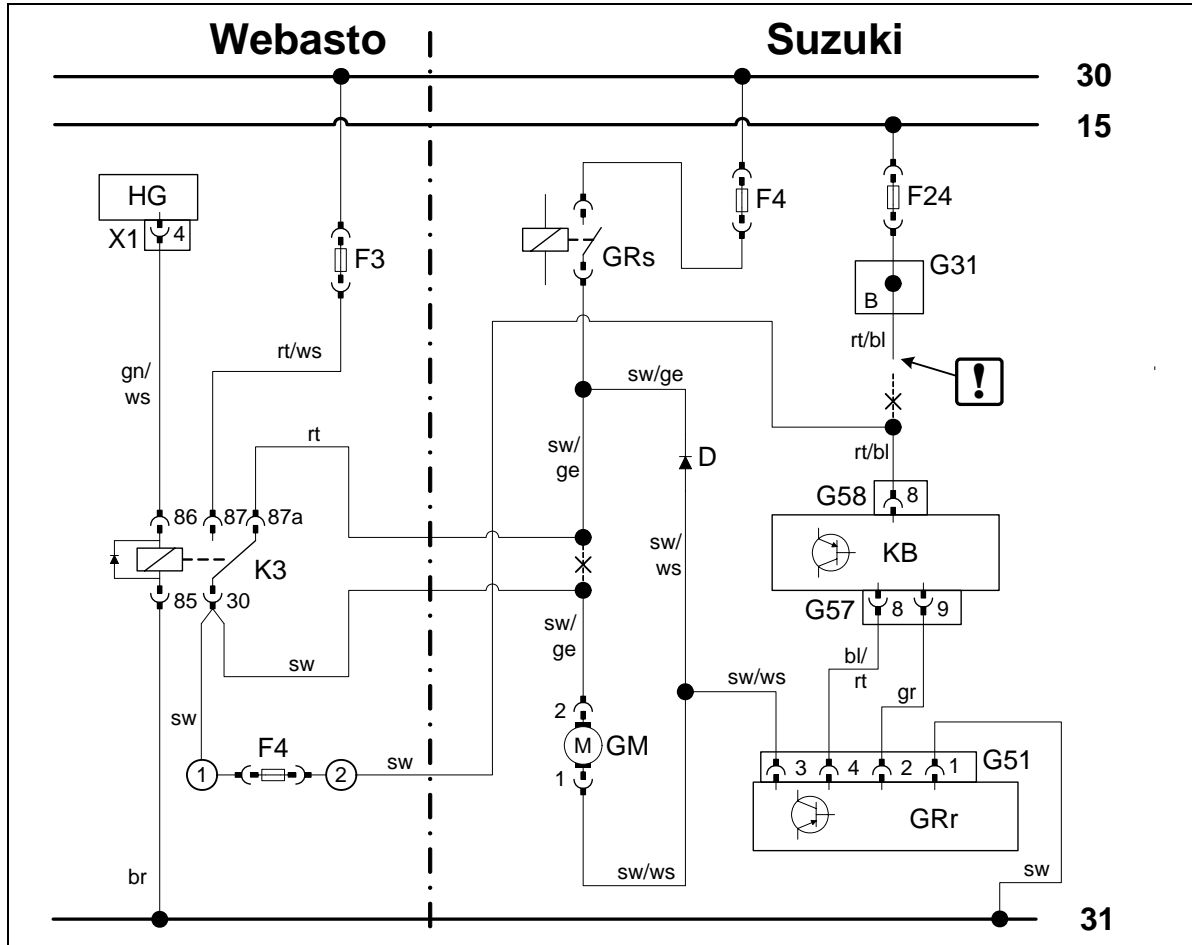
**Connect-
ing A/C
control
panel**



Connector G31 on line side.



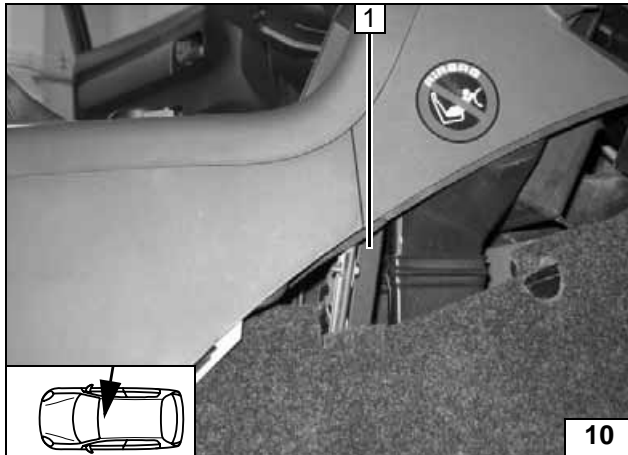
**Connector
G31**



Wiring diagram

Webasto components		Suzuki Swift components		Colors and symbols	
HG	Heater unit TT-C/E	GM	Fan motor	rt	red
X1	6-pin heater unit connector	F4	Fuse 30A	ws	white
F3	25 A fuse	F24	10 A fuse	sw	black
F4	10 A fuse	GRr	Fan controller	br	brown
K3	Fan relay	G51	Connector WG	gn	green
		GRs	Fan relay	ge	yellow
		KB	Air-conditioning control panel	gr	gray
		G57	Connector KB	bl	blue
		G58	Connector KB		
		G31	20-pin connector	!	Insulate wire end and tie back
				X	Cutting point
				Wiring colors may vary.	

Legend

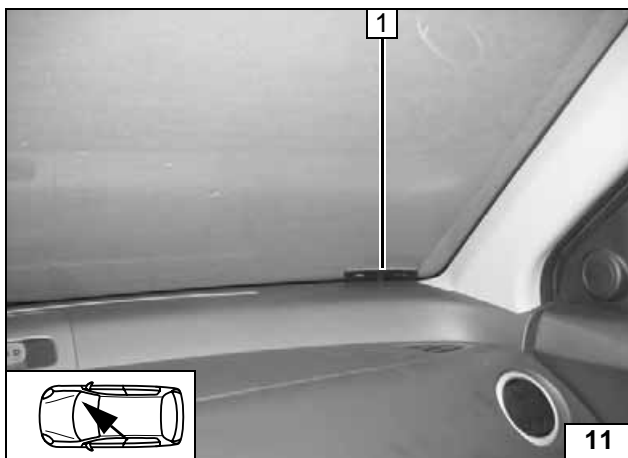


Remote option (Telestart)

- 1 Receiver, M5x12 bolt, washer, M5 flanged nut



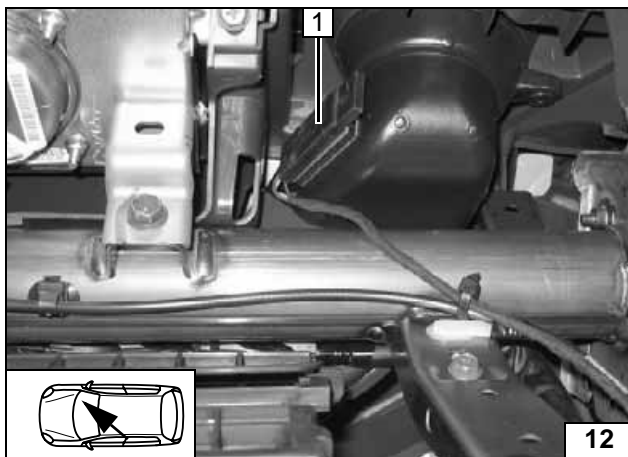
Installing receiver



- 1 Antenna



Installing antenna



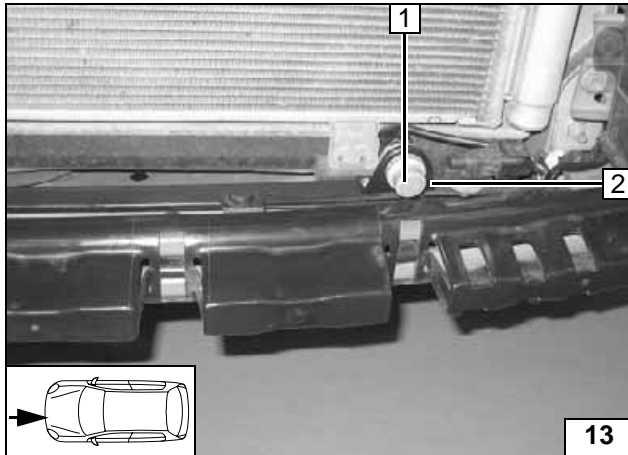
Temperature sensor for Telestart T100

Degrease adhesive bonding surfaces.

- 1 Temperature sensor, self-adhesive Dual Lock, right air duct



Temperature sensor



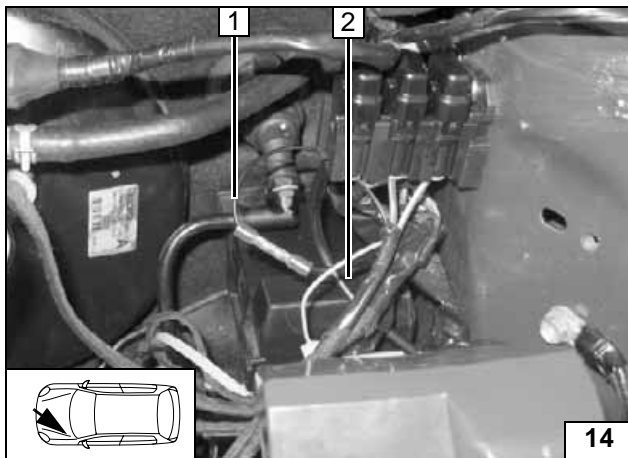
**Optional auxiliary heating,
diesel only**

Copy hole pattern for temperature sensor bracket and fasten with self-tapping screw provided.

- 2 Bracket
- 2 Temperature sensor



Installing temperature sensor

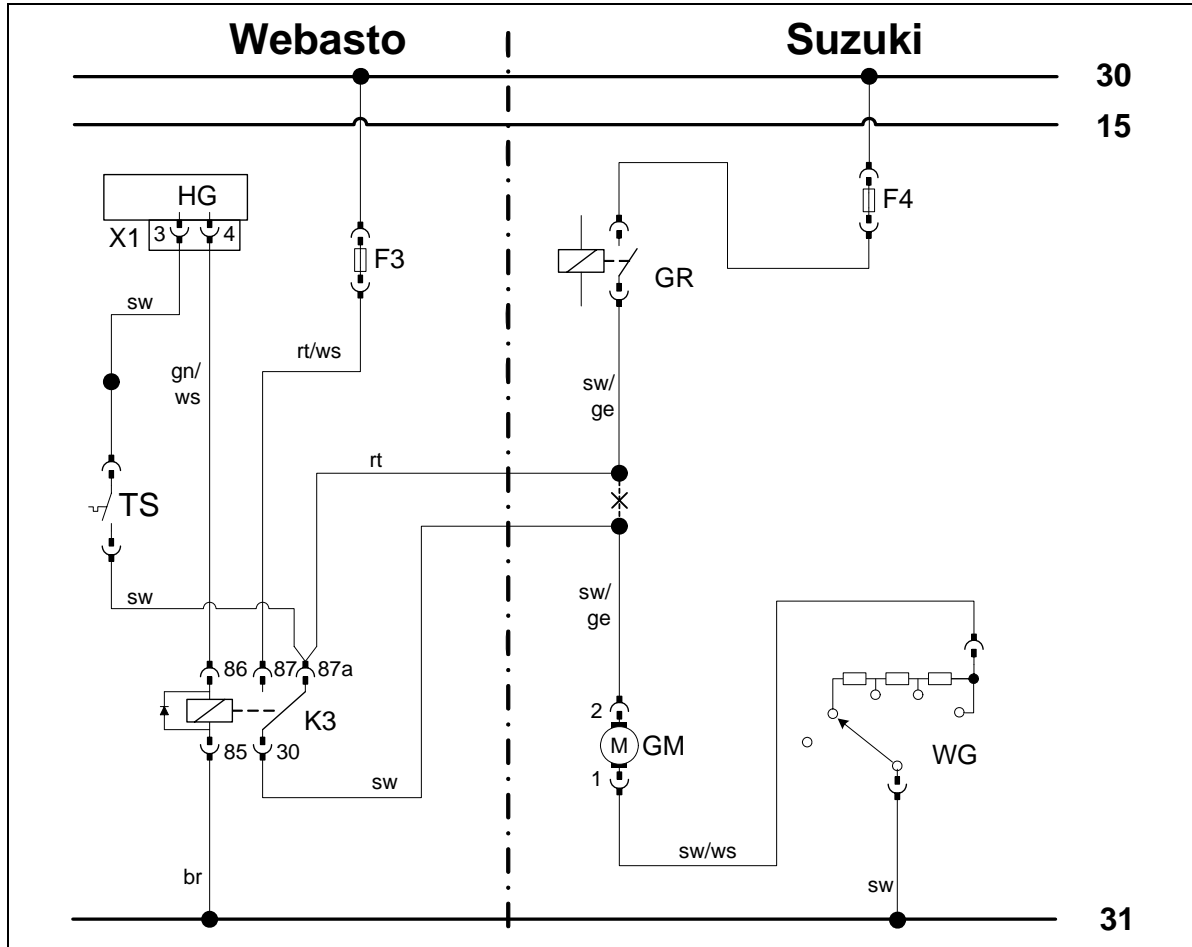


Free black (sw) wire end from heater unit connector, Pin 3, is routed out of wiring harness in area of fuse holder/K3 relay.

- 1 Black/red (sw/rt) wire from K3/87a/temperature sensor
- 2 Black (sw) wire from heater unit connector, Pin 3



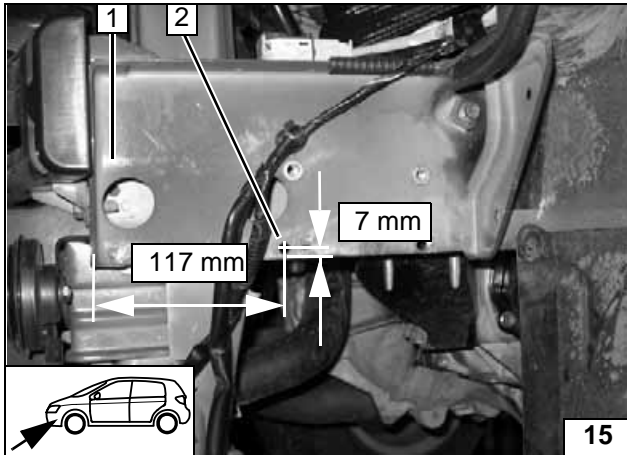
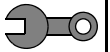
Connection



Wiring diagram for auxiliary heating

Webasto components		Components of Suzuki Swift		Colors and symbols	
HG	Heater unit TT-C/E	GM	Fan motor	rt	red
X1	6-pin connector	F	Fuse 30A	ws	white
F3	25 A fuse	WG	Resistor group	sw	black
K3	Fan relay	GR	Fan relay	br	brown
TS	Temperature switch			gn	green
				bl	blue
				ge	yellow
				X	Cutting point
				Wiring colors may vary.	

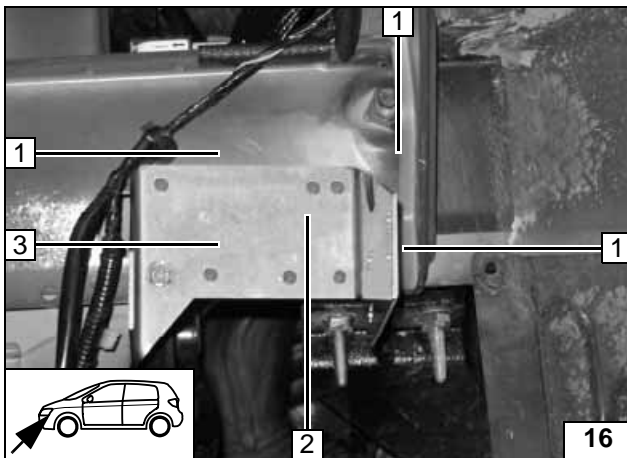
Legend



Preparing installation location

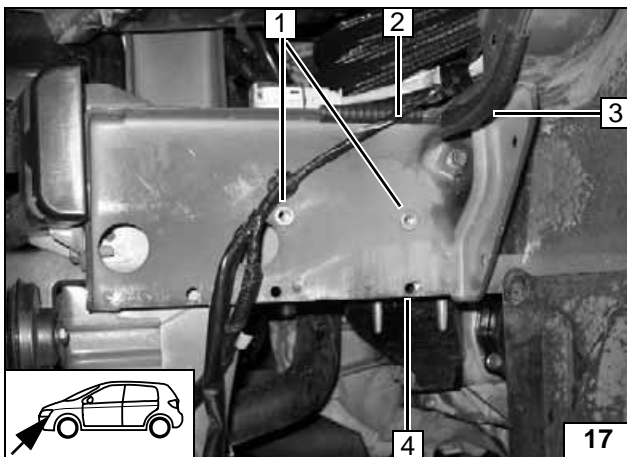
- 1 Original vehicle frame side member
- 2 7 mm dia. hole

Copying hole pattern



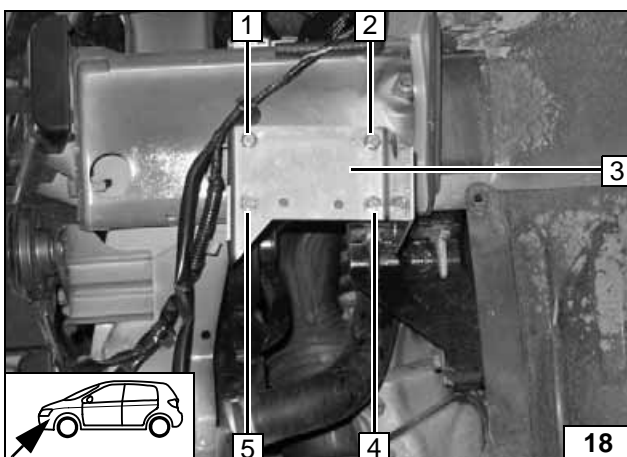
- 1 Copy hole pattern
- 2 Align bracket
- 3 M6x20 bolt, M6 flanged nut

Copying hole pattern



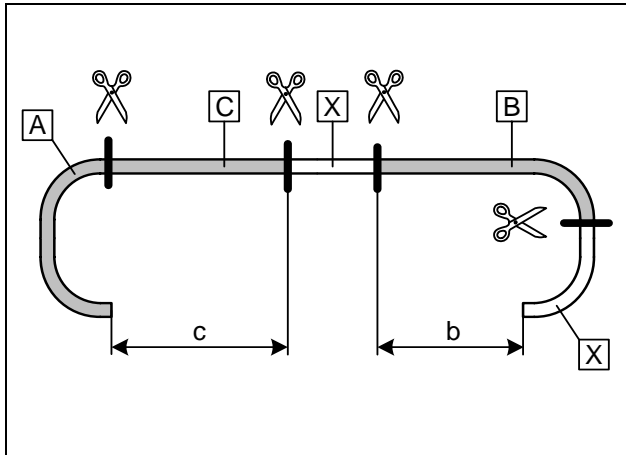
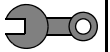
- 1 Drill 9.1 mm dia. hole; install rivet nuts
- 2 50 mm edge protection
- 3 100 mm edge protection
- 4 7 mm dia. hole

Installing rivet nuts, installing edge protection section



- 1 M6x20 bolt, spring lockwasher
- 2 5 mm shim, M6x25 bolt, spring lockwasher
- 3 Bracket
- 4 5 mm shim, M6x25 bolt, M6 flanged nut
- 5 5 mm shim, large diameter washer [2x], M6x25 bolt, M6 flanged nut

Installing bracket



Preparing heater unit

Gasoline M13A/M15A

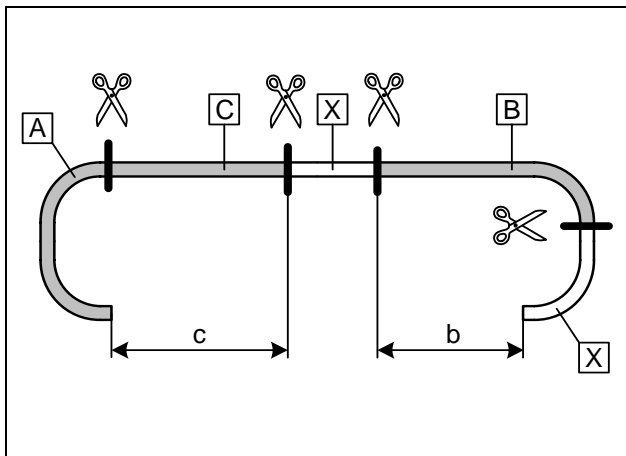
Cut hose **B** only shortly after elbow!

b = 680 mm
c = 670 mm

Discard section **X**



Cutting coolant hoses to length



Gasoline M16A

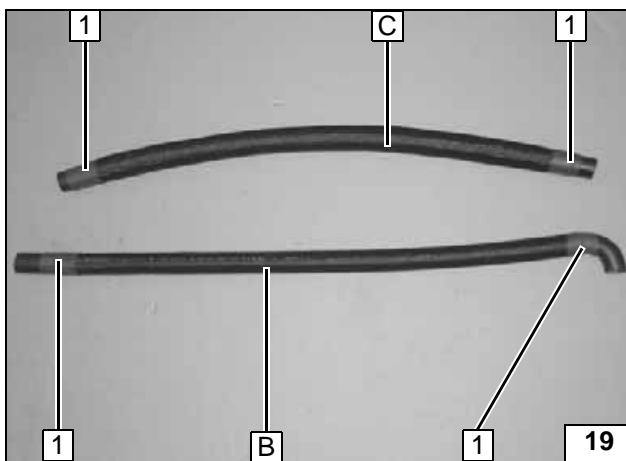
Cut hose **B** only shortly after elbow!

b = 700 mm
c = 750 mm

Discard section **X**



Cutting coolant hoses to length

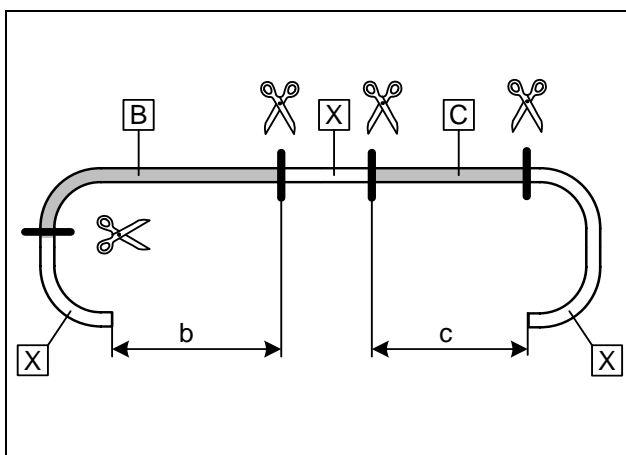


Cut braided protection hoses to length and push onto hose **B** and **C**.
Cut heat shrink plastic tubing in half.

1 Push on heat shrink plastic tubing, shrink down [4x]



Preparing coolant hoses



Diesel

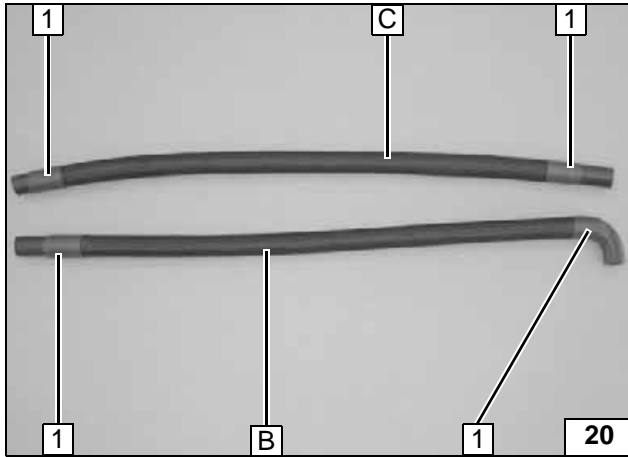
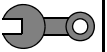
Cut hose **B** only shortly after elbow!

b = 720 mm
c = 790 mm

Discard section **X**



Cutting coolant hoses to length

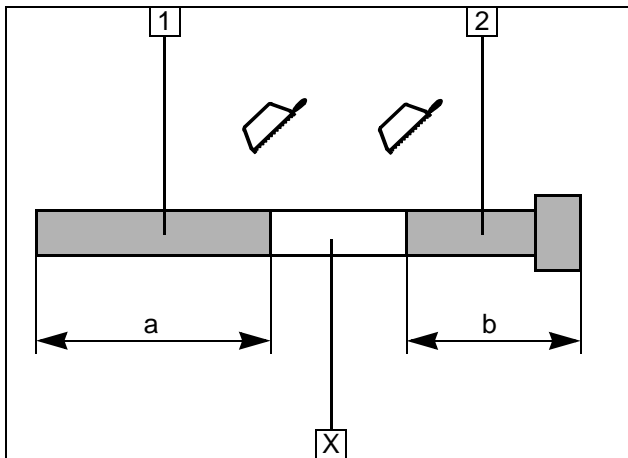


Cut braided protection hoses to length and push onto hose **B** and **C**.
Cut heat shrink plastic tubing in half.

- 1 Push on heat shrink plastic tubing, shrink down [4x]



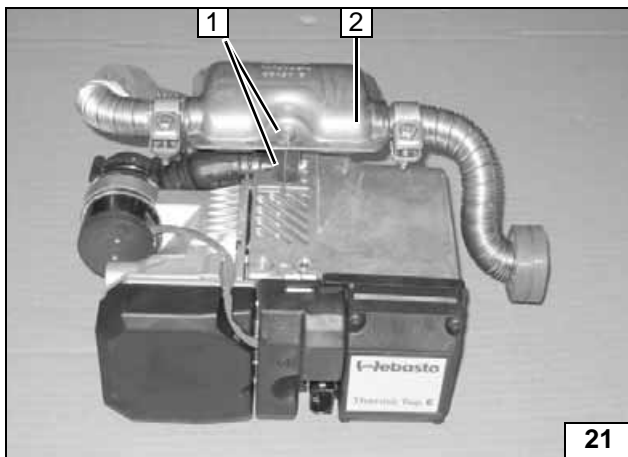
Preparing coolant hoses



- 1 Exhaust pipe
a = 320 mm
- 2 Exhaust end section
b = 180 mm

Discard section **X**

Preparing exhaust pipe

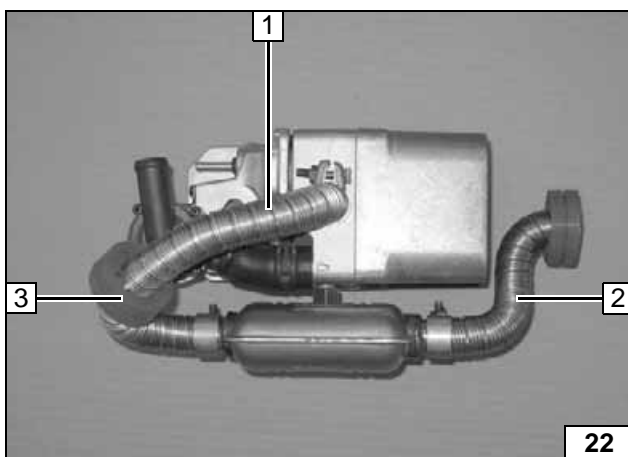


Tighten E-JOT screws to 10 Nm!

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

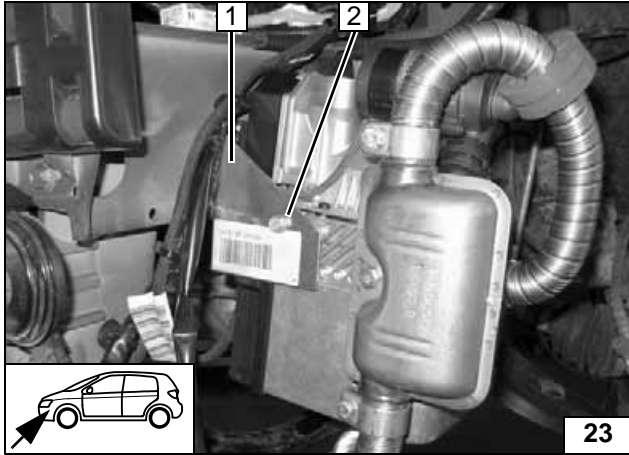
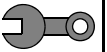


Premounting heater unit



- 1 Exhaust pipe, p-clamp [2x], rubber isolator
- 2 T-pipe end section, p-clamp, rubber isolator
- 3 Align rubber isolator

Premounting heater unit



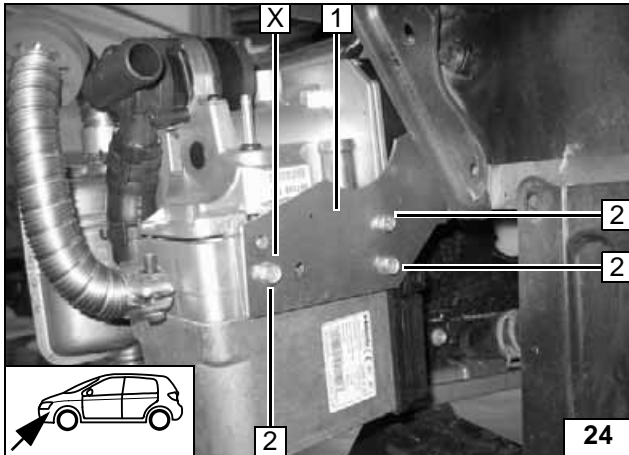
Installing heater unit

Tighten EJT screws to 10 Nm!

- 1 Bracket
- 2 Ejt screw



Installing heater unit



Tighten EJT screws to 10 Nm!
Insert two washers between heater unit and bracket at position x.

- 1 Bracket
- 2 Ejt screw [3x]



Installing heater unit



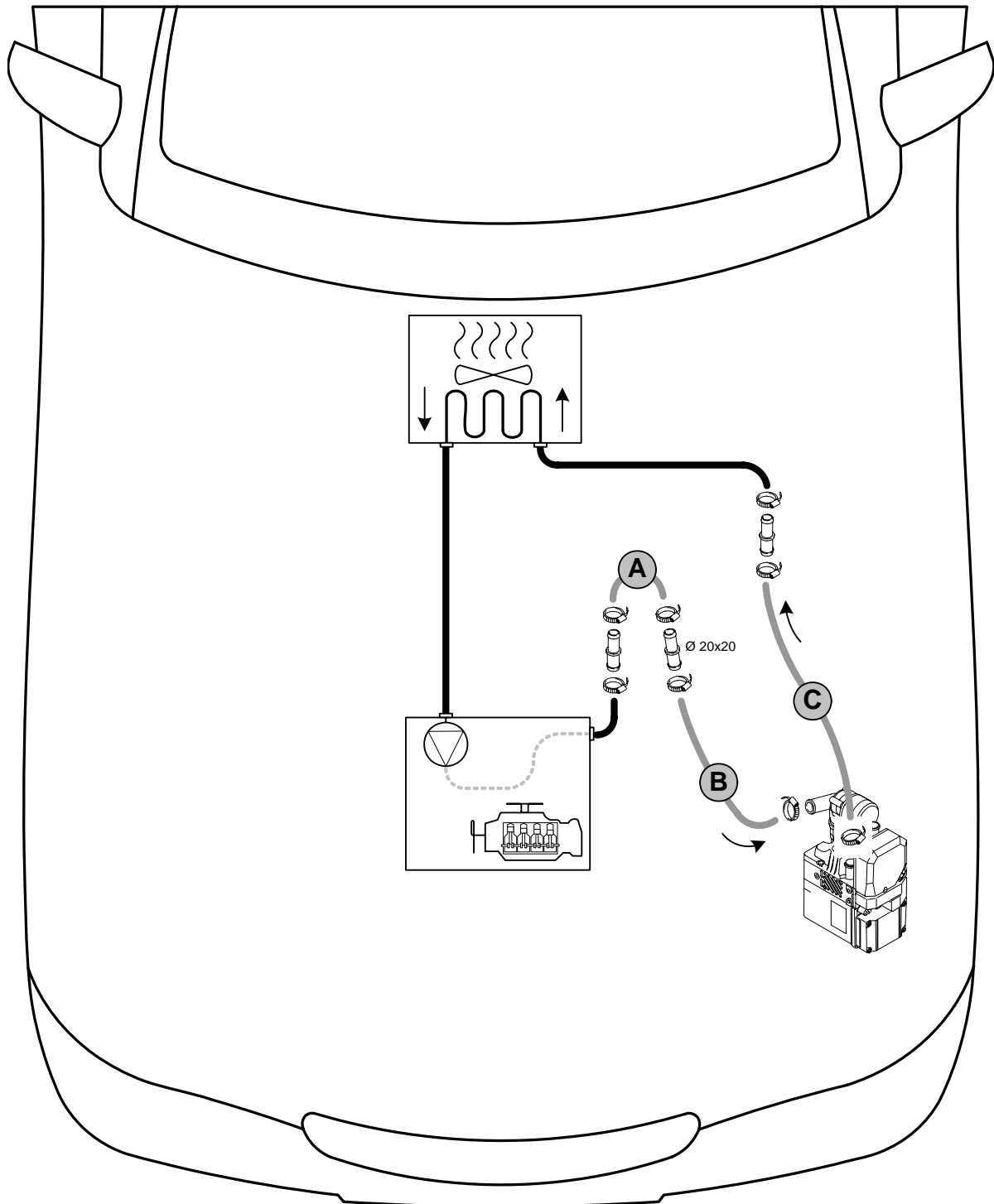
Coolant for gasoline engine

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

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



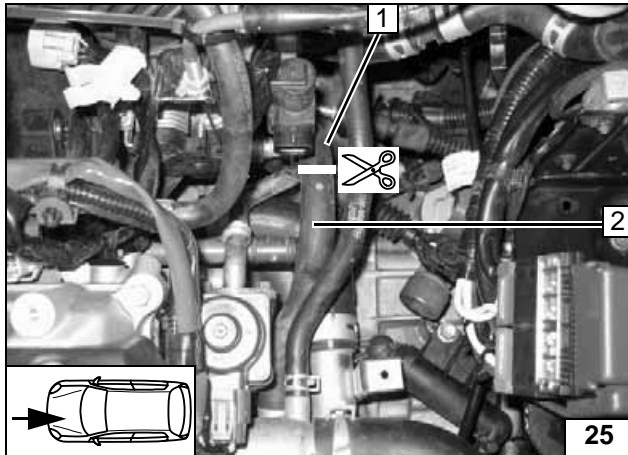
Coolant Diagram

All hose clamps = 16-27 mm dia.!

All connecting pipes without a specific designation **M13A** and **M15A** = dia. 15x20!

All connecting pipes without a specific designation **M16A** = dia. 17x20!

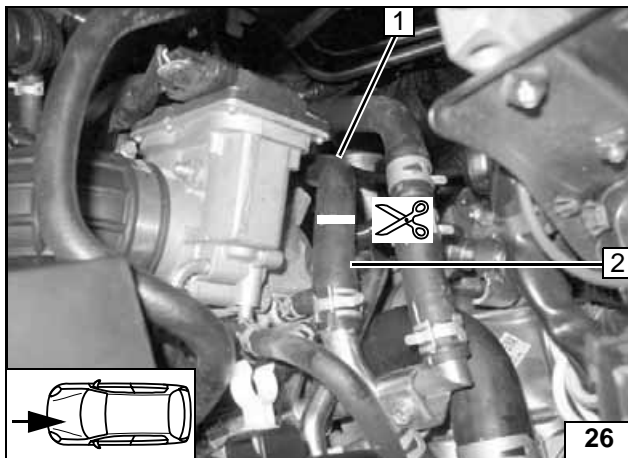




Cutting point on M13A and M15A

- 1 Hose section of heat exchanger inlet
- 2 Engine outlet hose section

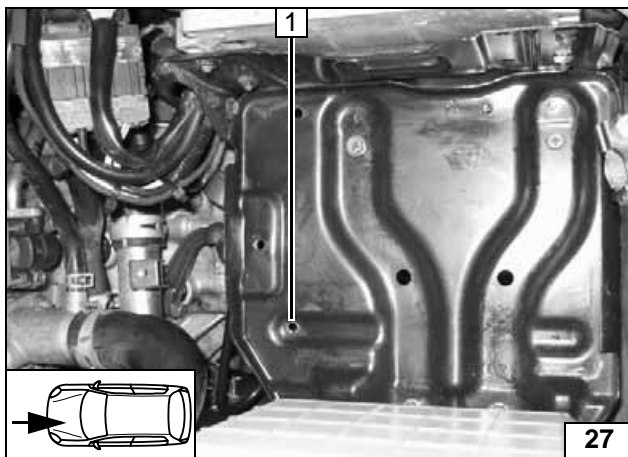
Cutting point



Cutting point on M16A

- 1 Hose section of heat exchanger inlet
- 2 Engine outlet hose section

Cutting point



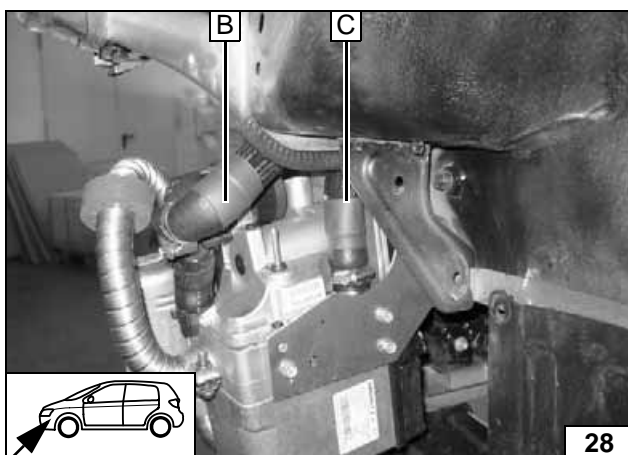
All gasoline

Drill 7 mm dia. hole as shown.

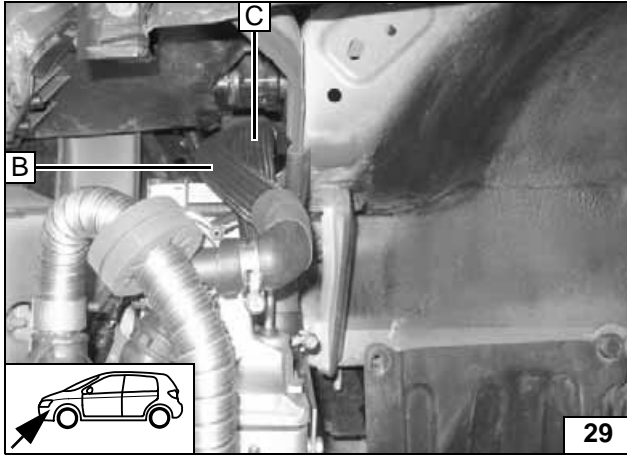
- 1 7 mm dia. hole



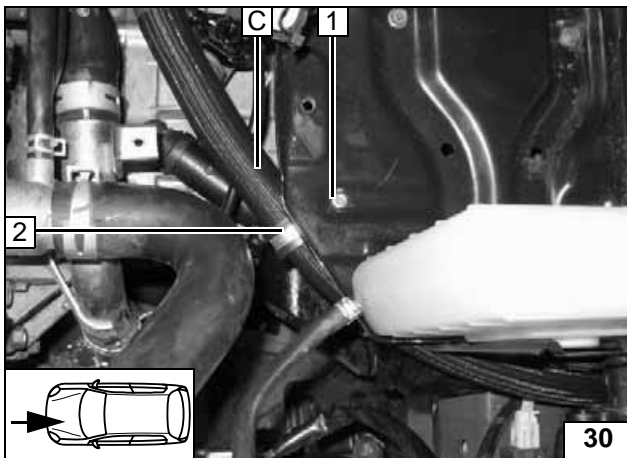
Preparing battery carrier plate



Connecting heater unit



Routing of coolant hoses

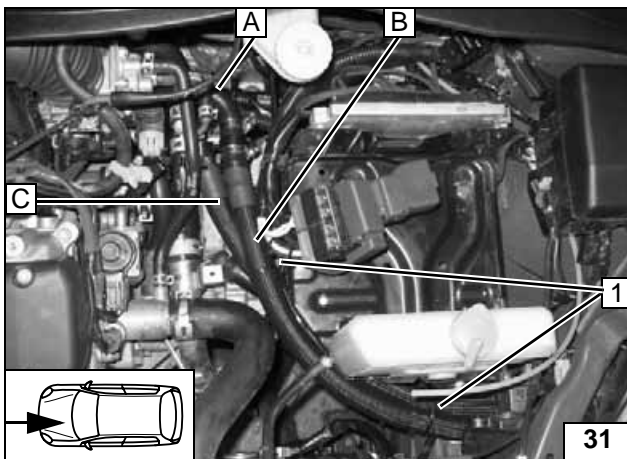


Ensure sufficient distance to neighboring components.



- 1 M6x20 bolt, M6 flanged nut
- 2 Rubber-coated pipe clamp, 29 mm dia.

Routing in engine compartment

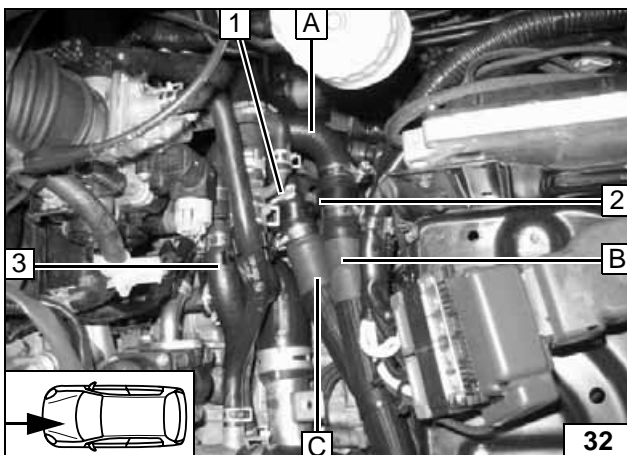


Ensure sufficient distance to neighboring components.



- 1 Cable tie [2x]

Routing in engine compartment



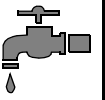
Before connecting, fill the water hoses with coolant.

Ensure sufficient spacing to shift linkage.



- 1 Hose on heat exchanger inlet
- 3 Hose of engine outlet
- 2 Spacer bracket

Connection on heat exchanger inlet and engine outlet



Coolant for diesel engine

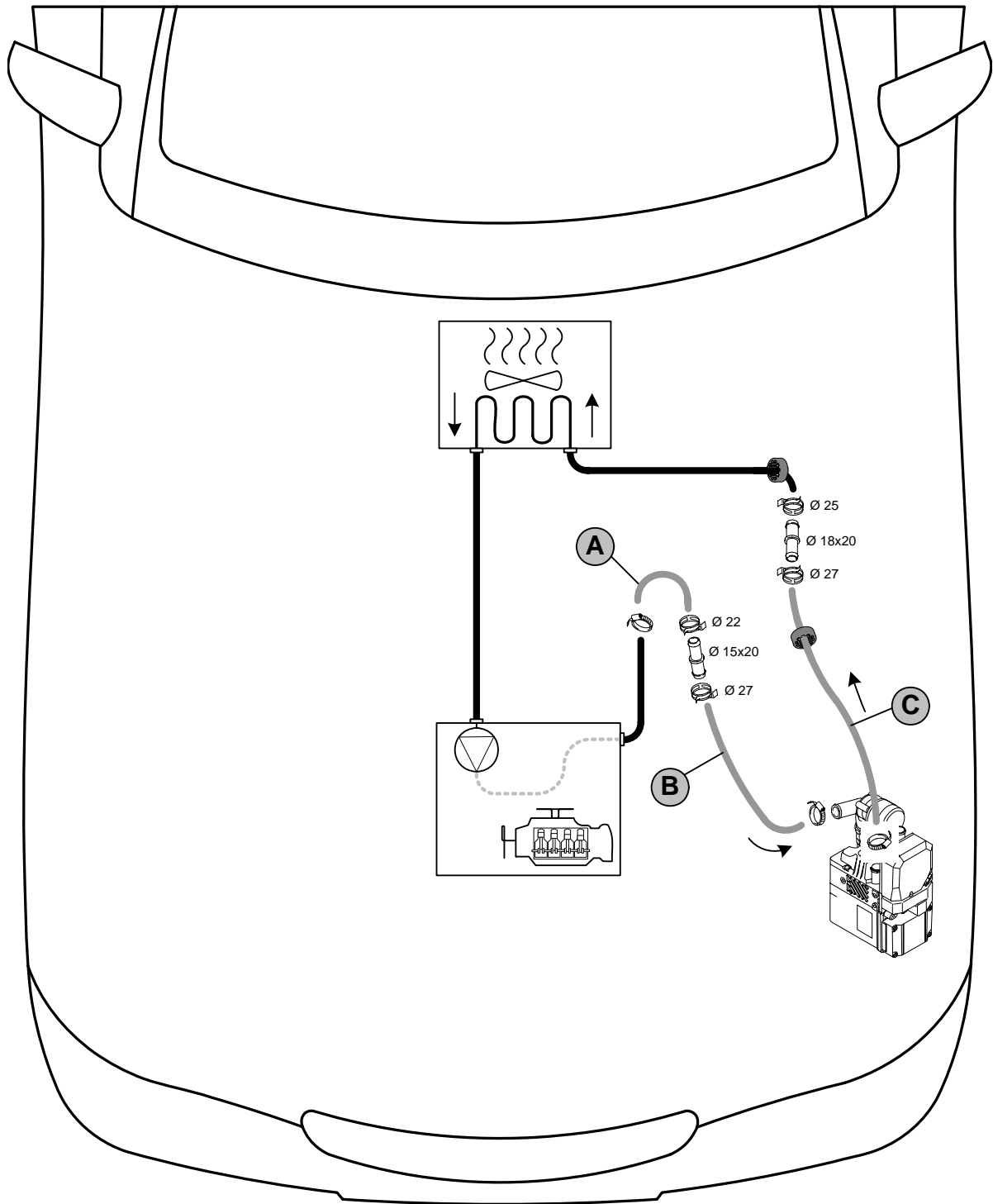


WARNING!

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

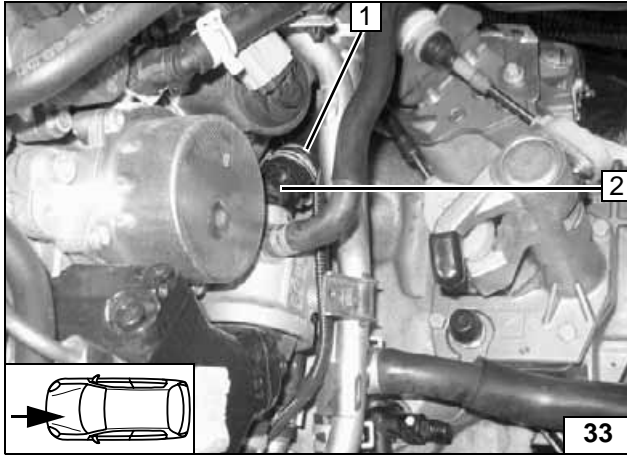
The connection should be "inline" based on the following diagram:



Coolant Diagram

All hose clamps = 16-27 mm dia.
Hose **A** = included molded hose.



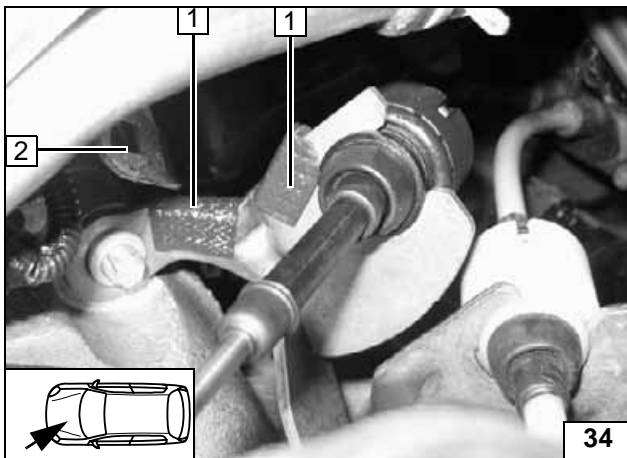


Remove original vehicle clamp and discard. Remove original vehicle hose bracket and discard.

- 1 Hose section of heat exchanger inlet
- 2 Connection piece for engine outlet



Cutting point

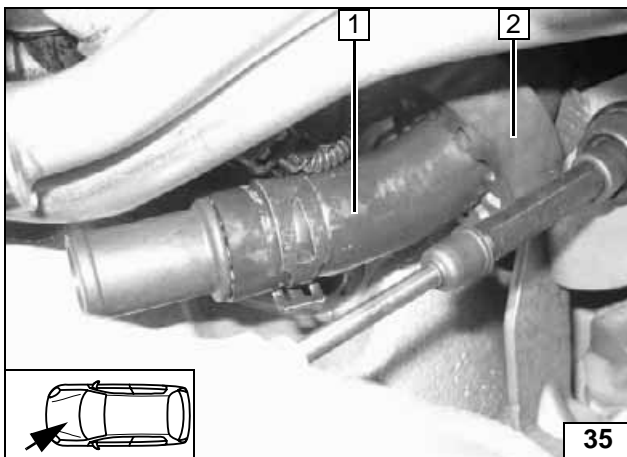


Cut 50 mm edge protection section provided in half as shown.

- 1 25 mm edge protection section [2x]
- 2 Mounting tab of hose bracket



Installing edge protection section

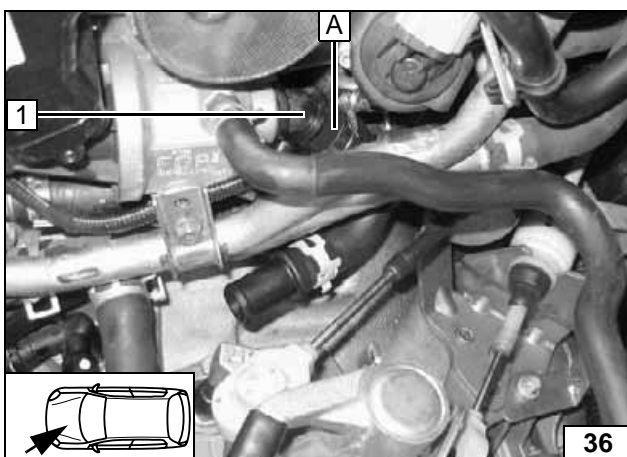


Align black (sw) rubber isolator 2 as shown.

- 1 Hose section on heat exchanger inlet



Installing rubber isolator

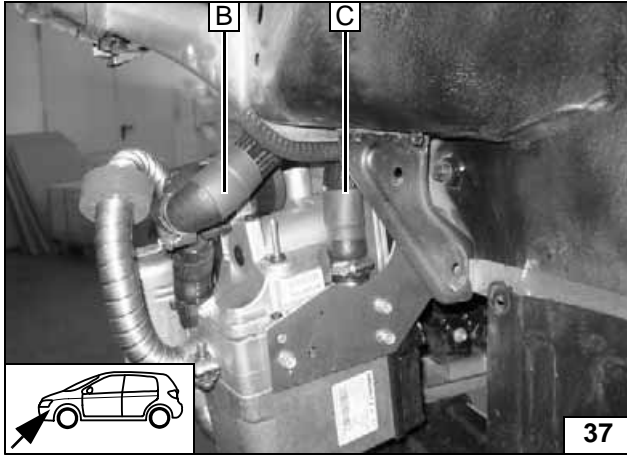


Install molded hose **A** as shown.

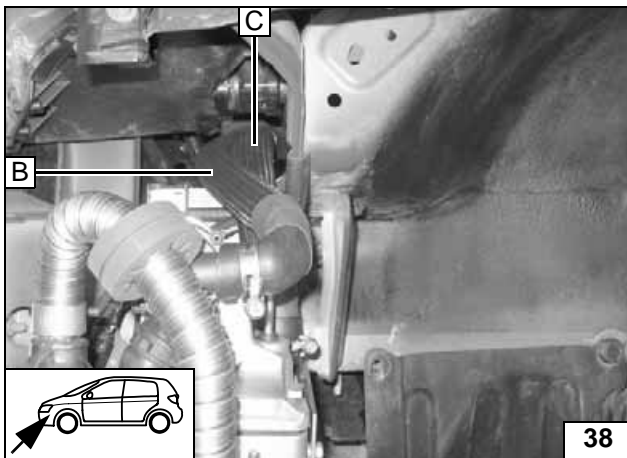
- 1 Connection piece for engine outlet



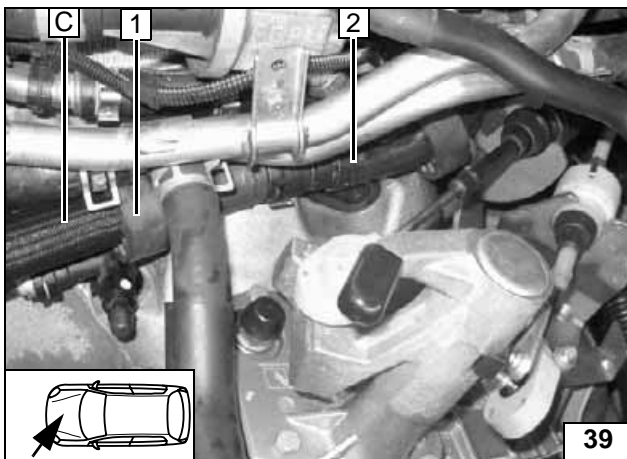
Connecting engine outlet



Connect-
ing heater
unit



Routing of
coolant
hoses

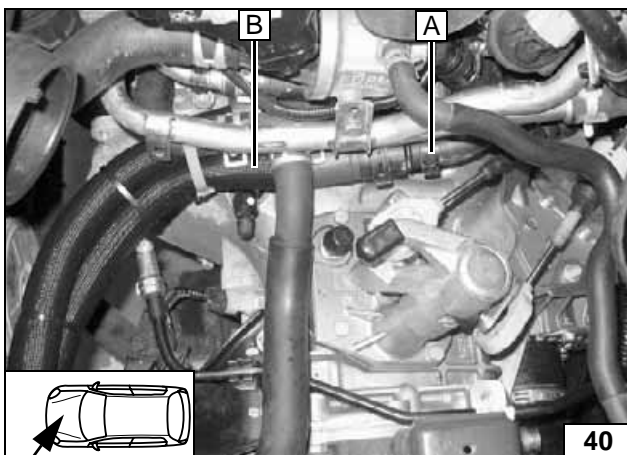


Align black (sw) rubber isolator 1 as shown.

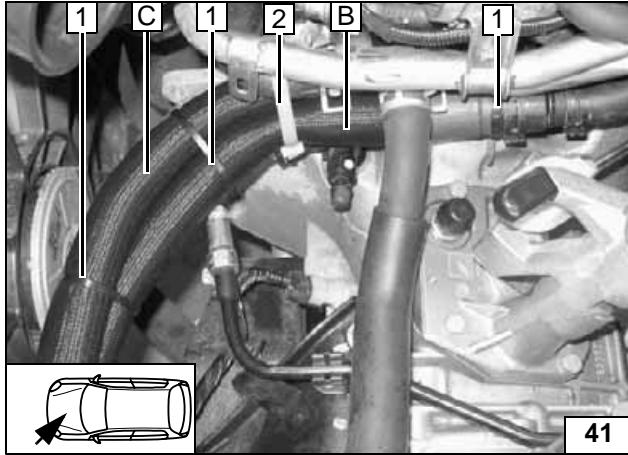
2 Hose section on heat exchanger inlet



Connect-
ing heat
exchanger
inlet

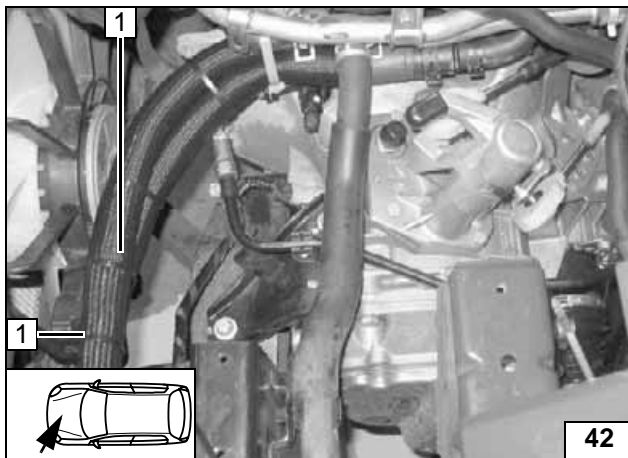


Connec-
tion on en-
gine outlet



- 1 Cable tie [3x]
- 2 Green (gn) cable tie

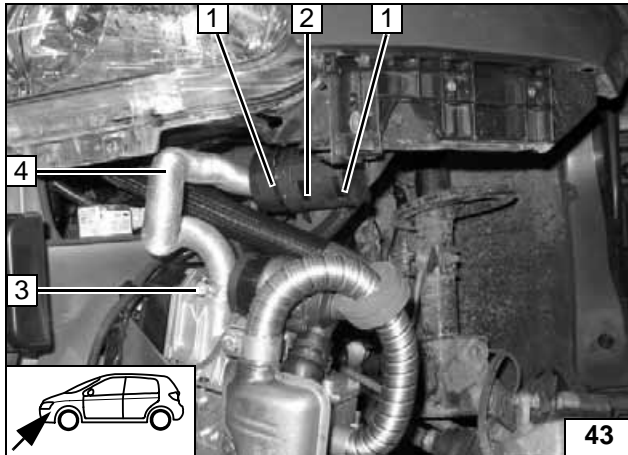
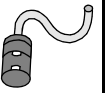
Routing of coolant hoses



Fasten coolant hoses on frame of radiator fan with cable ties 1 [2x each] as shown.



Routing of coolant hoses



Combustion air

Ensure proper installation position of combustion-air intake muffler, see "Installation Instructions".

- 4 Combustion-air intake pipe
- 3 27 mm dia. hose clamp
- 2 Combustion-air intake muffler
- 1 Cable ties [2x] on existing holes



**Installing
intake
muffler**



Fuel

CAUTION!

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

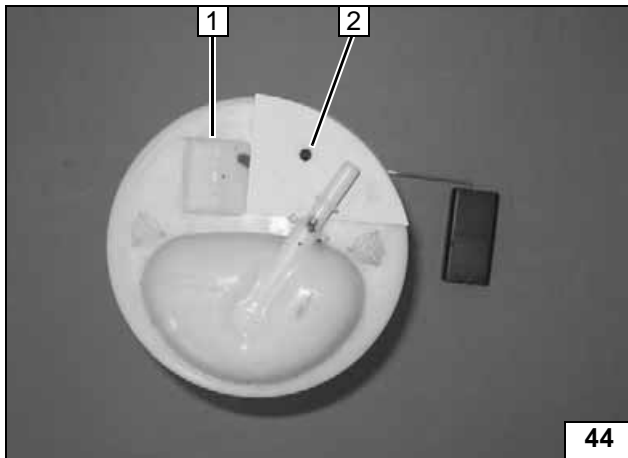
Catch any fuel running off with an appropriate container.

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.

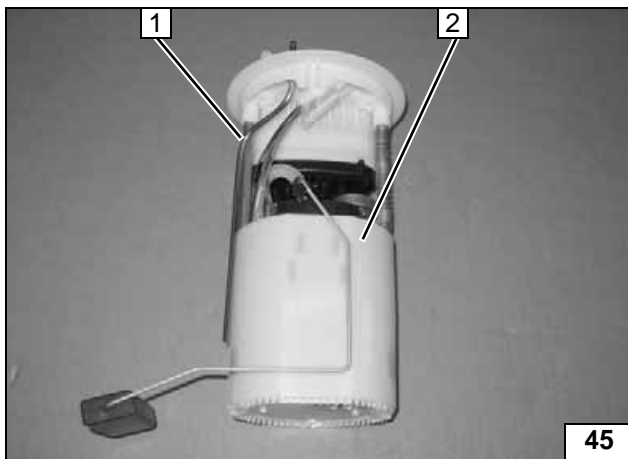


Fuel removal on gasoline engines

Fuel-tank sending unit, Version A

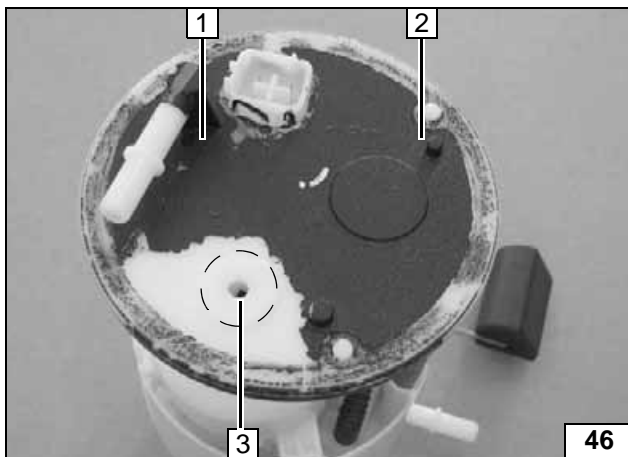
Remove fuel-tank sending unit in accordance with manufacturer's instructions.

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



Shape fuel standpipe according to template on page 31, cut to length and install, see "installation instructions".

- 2 Fuel-tank sending unit
- 1 Fuel standpipe



Removing fuel with gasoline engine

Fuel-tank sending unit, Version B

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

Remove coating 2 in area of installation location of fuel standpipe.

- 1 Fuel-tank sending unit
- 3 Drill 6 mm dia. hole in center of stamped area as shown



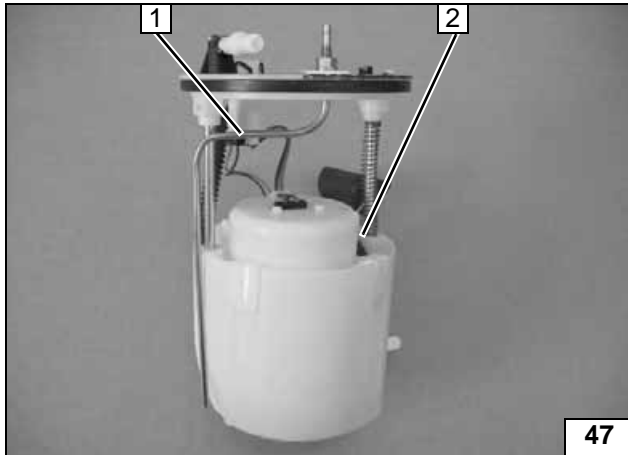
Removing fuel



Installing fuel standpipe



Removing fuel

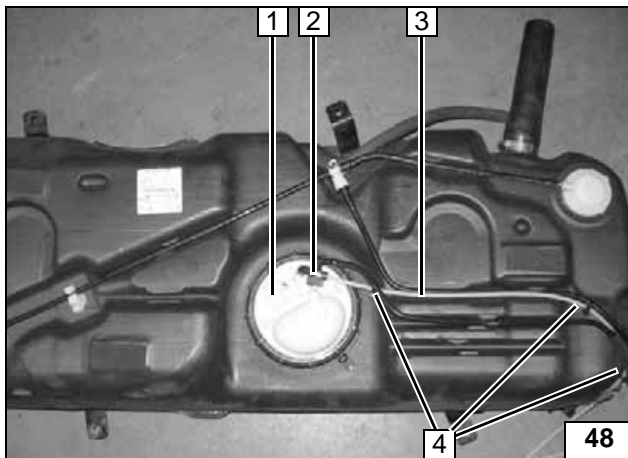


Shape fuel standpipe according to template on page 32, cut to length and install, see "installation instructions".

- 2 Fuel-tank sending unit
- 1 Fuel standpipe



Installing fuel standpipe

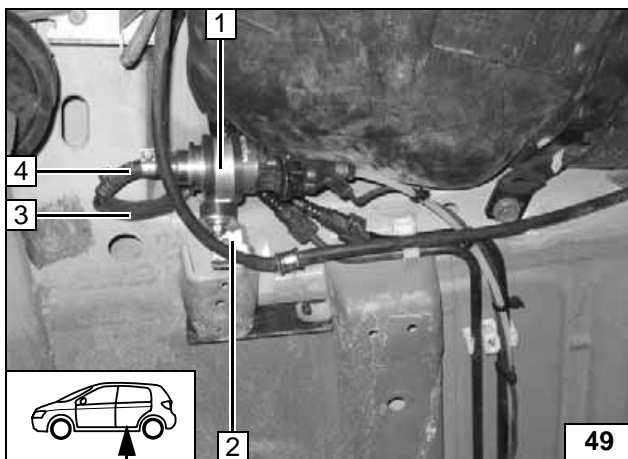


Fuel-tank sending unit Version A shown. Install fuel-tank sending unit according to manufacturer's specifications. Shorten molded hose with 3.5 mm dia. by 10 mm. Shortened side with 8 mm dia. Caillau clamp on fuel standpipe.

- 1 Fuel-tank sending unit with fuel standpipe
- 2 Molded hose, dia. 3.5 mm x 4.5 mm, Caillau clamp, 8 mm dia., Caillau clamp, 10 mm dia.
- 3 Fuel line
- 4 Cable tie [3x]



Connecting fuel line



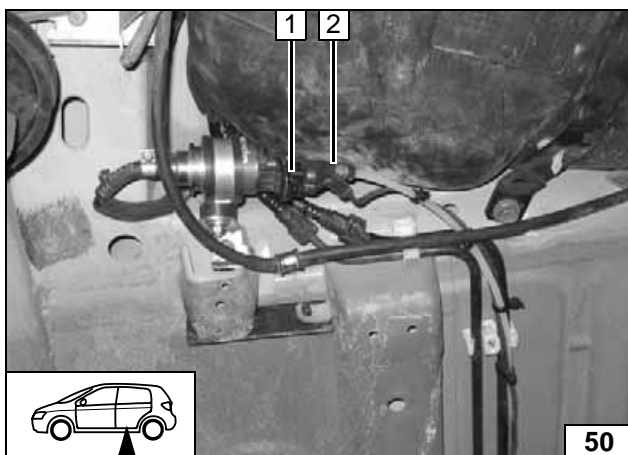
Ensure proper installation position of metering pump, see "Installation Instructions".
Cut fuel line to length accordingly.

Fuel line from fuel standpipe on intake side of metering pump [side without connector]

- 1 Metering pump, rubber-coated p-clamp, silent block, M6 flanged nut [2x]
- 2 Angle bracket, handbrake cable bracket, original vehicle bolt
- 4 Hose section, 10 mm dia. hose clamp [2x], fuel line
- 3 Scuff guard of 8x12, 70 mm hose [2x]



Installation location of metering pump



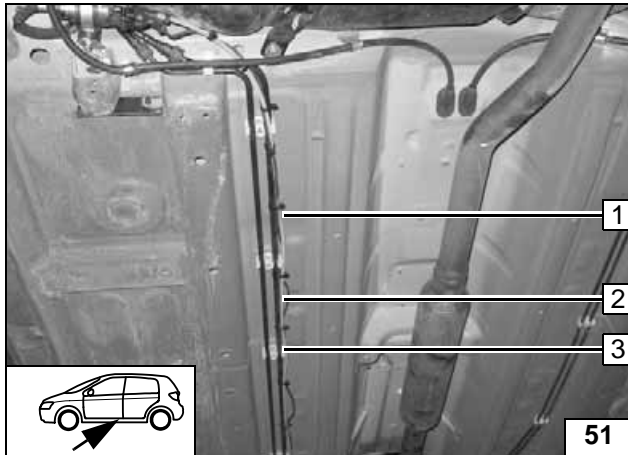
Ensure proper installation position of metering pump, see "Installation Instructions".

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

- 1 Wiring harness metering pump, metering pump connector
- 2 Hose section, 10 mm dia. hose clamp [2x], fuel line

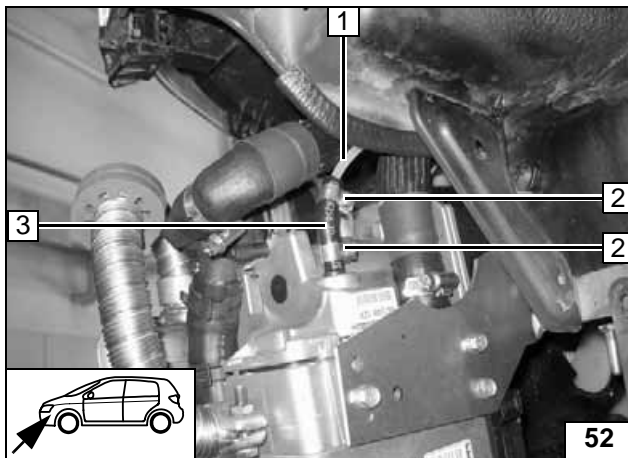


Installation location of metering pump



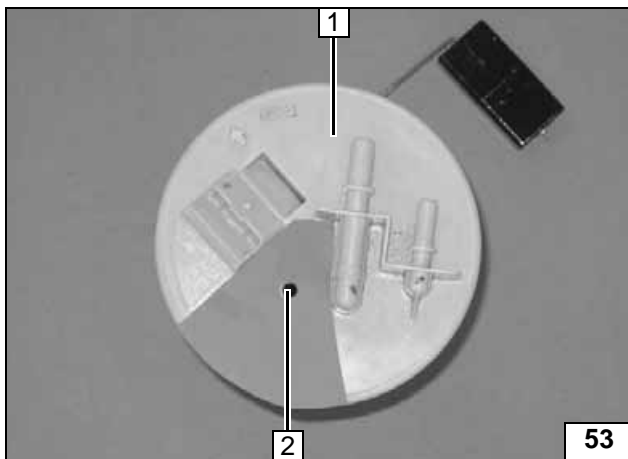
- 1 Mecanyl fuel line
- 2 Metering pump wiring harness
- 3 Original vehicle fuel lines

Installing lines



- 1 Mecanyl fuel line
- 2 10 mm dia. hose clamp [2x]
- 3 Hose section

Connec-
tion on
heater unit



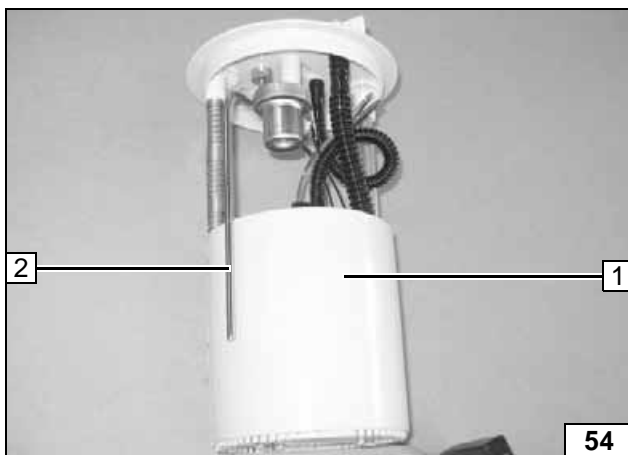
Fuel removal on diesel engines only

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

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



Removing fuel

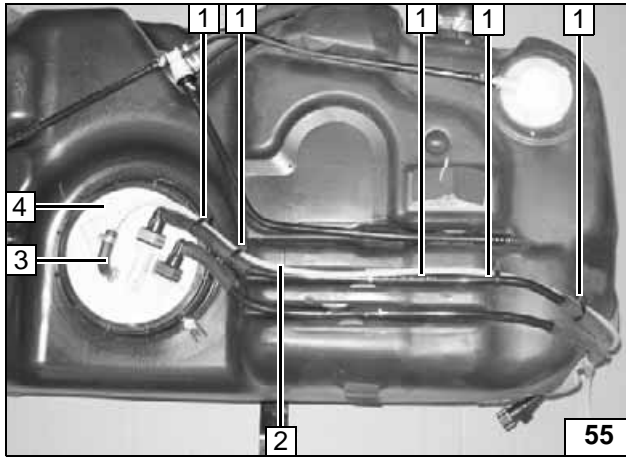


Shape fuel standpipe according to template on page 34, cut to length and install, see "installation instructions".

- 2 Fuel-tank sending unit
- 1 Fuel standpipe



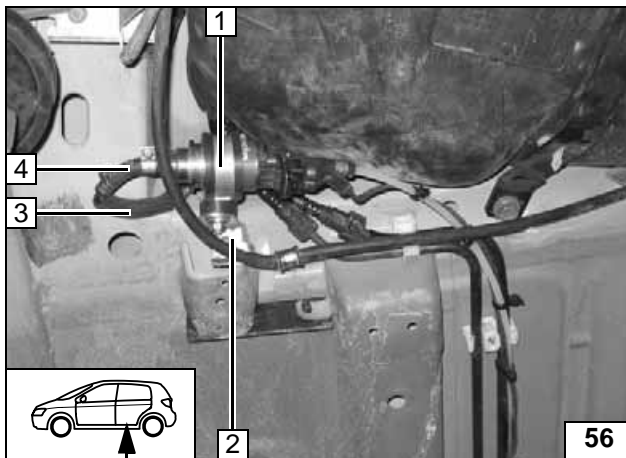
Installing fuel standpipe



Install fuel-tank sending unit according to 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.

- 4 Fuel-tank sending unit with fuel standpipe
- 3 Molded hose, dia. 3.5 mm x 4.5 mm, Caillau clamp, 8 mm dia., Caillau clamp, 10 mm dia.
- 2 Fuel line
- 1 Cable tie [5x]

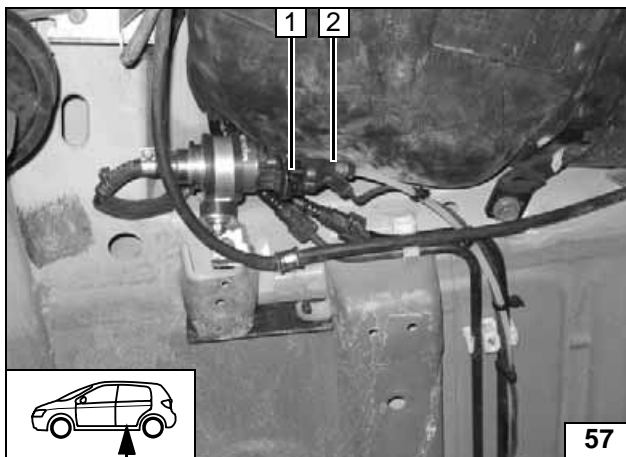
Install fuel tank according to manufacturer's specifications.



Ensure proper installation position of metering pump, see "Installation Instructions".
Cut fuel line to length accordingly.

Fuel line from fuel standpipe on intake side of metering pump [side without connector]

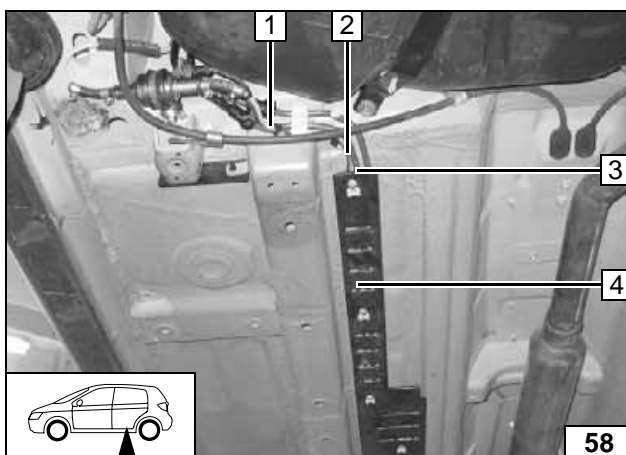
- 1 Metering pump, rubber-coated p-clamp, silent block, M6 flanged nut [2x]
- 2 Angle bracket, handbrake cable bracket, original vehicle bolt
- 4 Hose section, 10 mm dia. hose clamp [2x], fuel line
- 3 Scuff guard of 8x12, 70 mm hose [2x]



Ensure proper installation position of metering pump, see "Installation Instructions".

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

- 1 Wiring harness metering pump, metering pump connector
- 2 Hose section, 10 mm dia. hose clamp [2x], fuel line



- 1 Mecanyl fuel line
- 2 Metering pump wiring harness
- 3 Original vehicle fuel lines
- 4 Cover of original vehicle fuel line (if installed)



Connect- ing fuel line

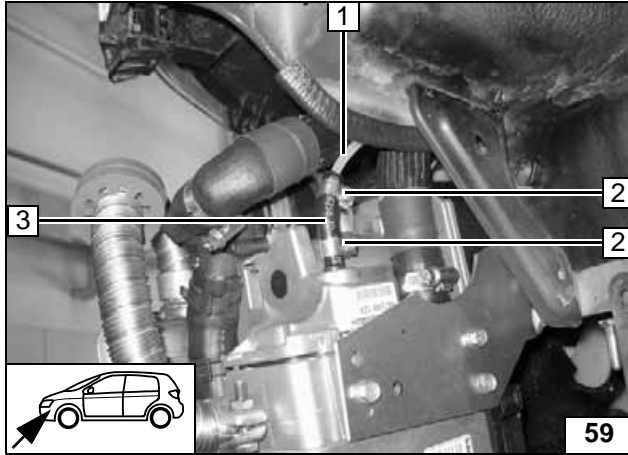


Installa- tion loca- tion of metering pump



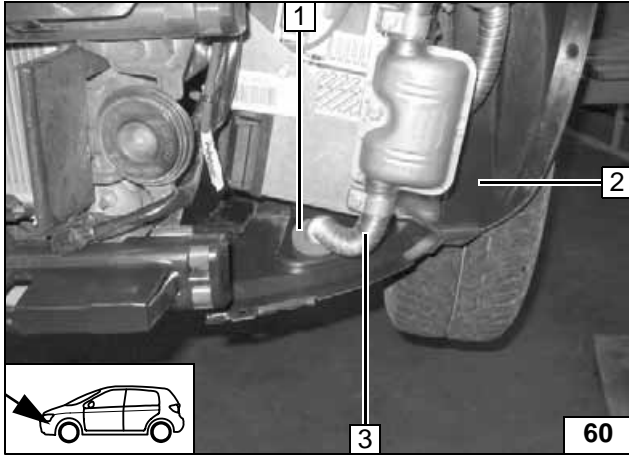
Installa- tion loca- tion of metering pump

Installing lines



- 1 Mecanyl fuel line
- 2 10 mm dia. hose clamp [2x]
- 3 Hose section

Conne-
tion on
heater unit



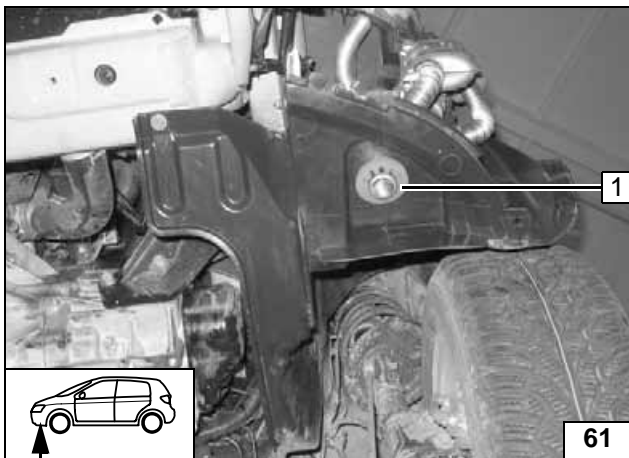
Exhaust system

Reinstall wheel well trim on left.

- 3 Exhaust tail pipe
- 2 Wheel well trim
- 1 42 mm dia. hole, rubber isolator

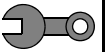


**Machining
wheel well
trim**



- 1 Exhaust tail pipe, rubber isolator

**Mounting
rubber
isolator**

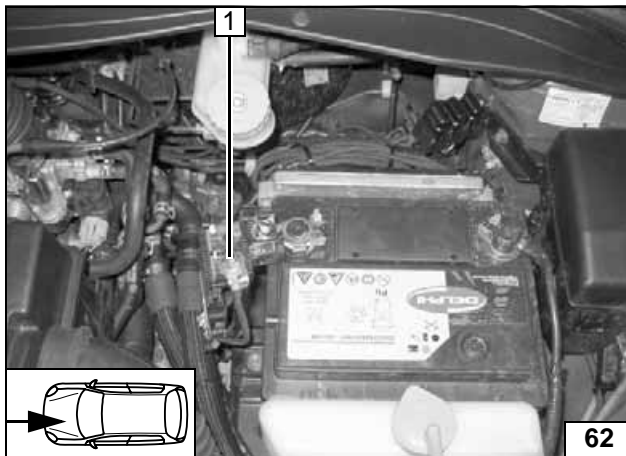


Final Work

WARNING!

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

- Connect the batteries
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Adjust the digital timer if installed
- Make settings on A/C control panel according to the "Operating Instructions for 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.



Depending on vehicle equipment, replace claw cable lug present on positive wire with 8 mm claw cable lug provided.

- 1 Connect positive wire to claw cable lug on positive battery terminal



**Connect-
ing posi-
tive wire**

Webasto
Feel the drive

Webasto AG
 Postfach 80 - 82132 Stockdorf, Germany - Hotline +49-
 (0)1805-932278

Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.



Note:

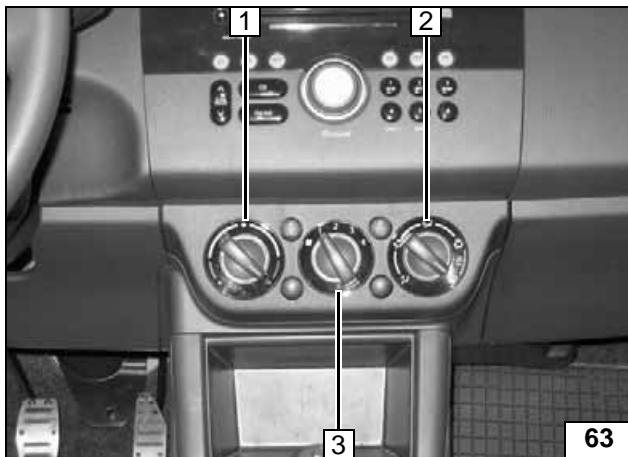
We recommend matching the heating time to the driving time.
Heating time = driving time

Example:

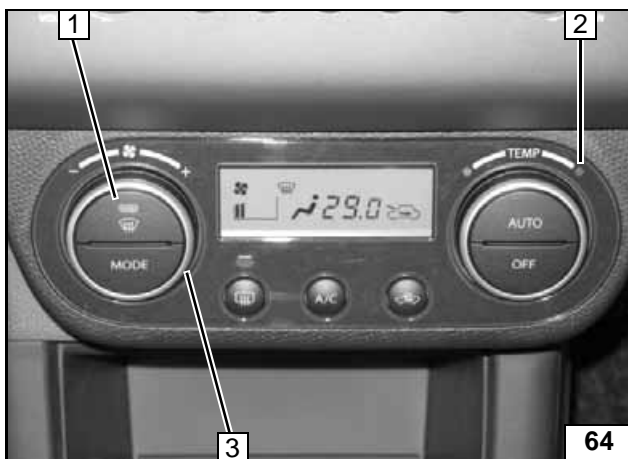
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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:



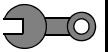
- 1 Set temperature to "hot"
- 2 Air outlet to windshield
- 3 Set fan speed to "1" or max. "2"



- 1 Air outlet to windshield
- 2 Set temperature to "29°C"
- 3 Set fan speed to "1" or max. "2"

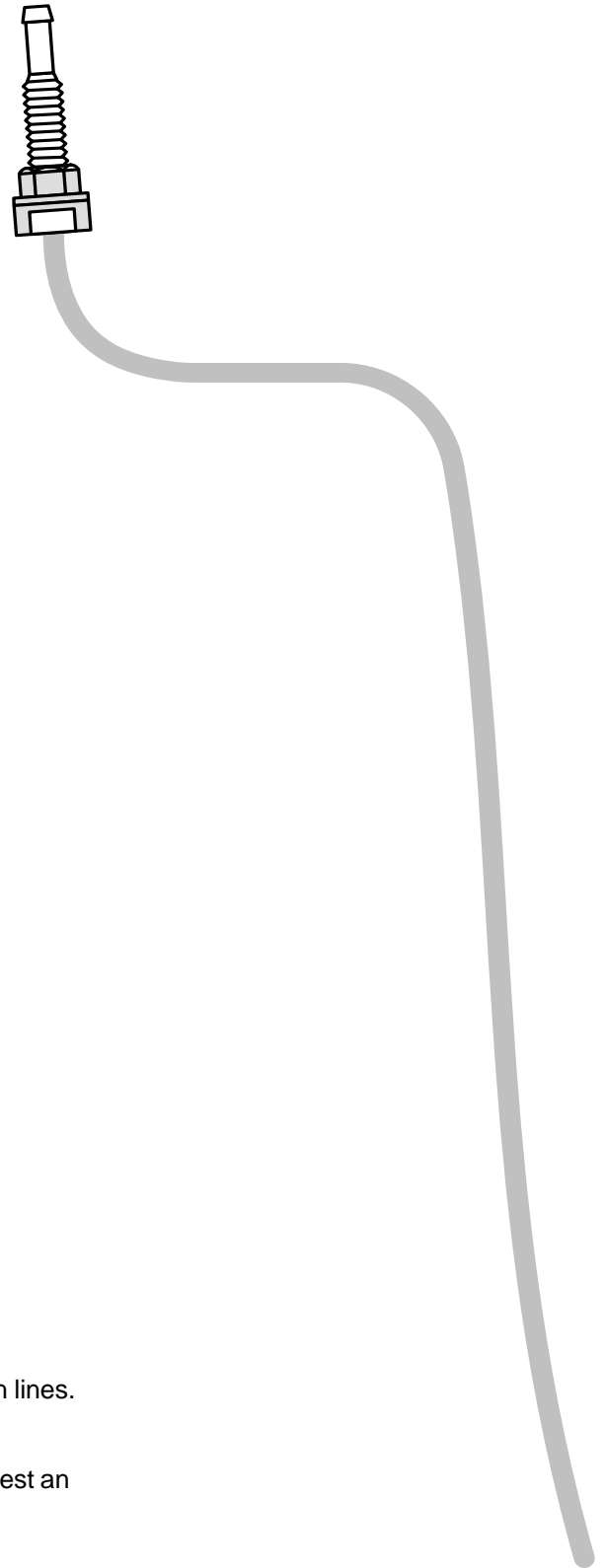
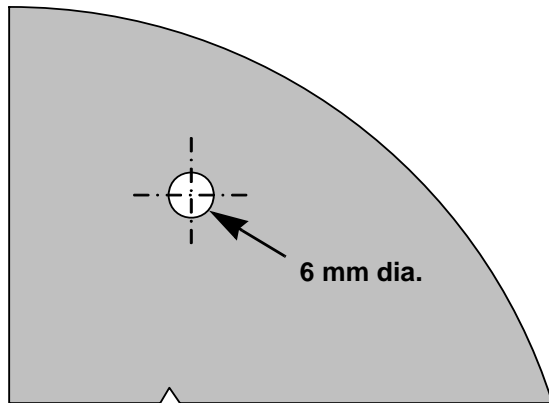
Without automatic air-conditioning

Automatic air-conditioning



Template for Gasoline Fuel Standpipe,
Version A

Template for Gasoline Fuel-Tank Sending Unit,
Version A



100 mm



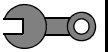
Scale 1:1

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

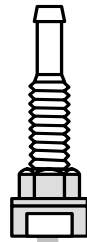
Correct major differences in the printer settings or request an
original printout.

100 mm

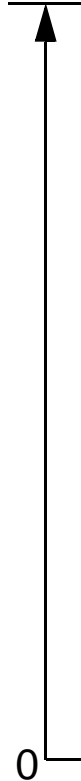
0



Template for Gasoline Fuel Standpipe,
Version B



100 mm



Scale 1:1

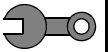
Compare the size of the printed version with dimension lines.
Permitted tolerance a maximum of 2%.

Correct major differences in the printer settings or request an
original printout.

100 mm

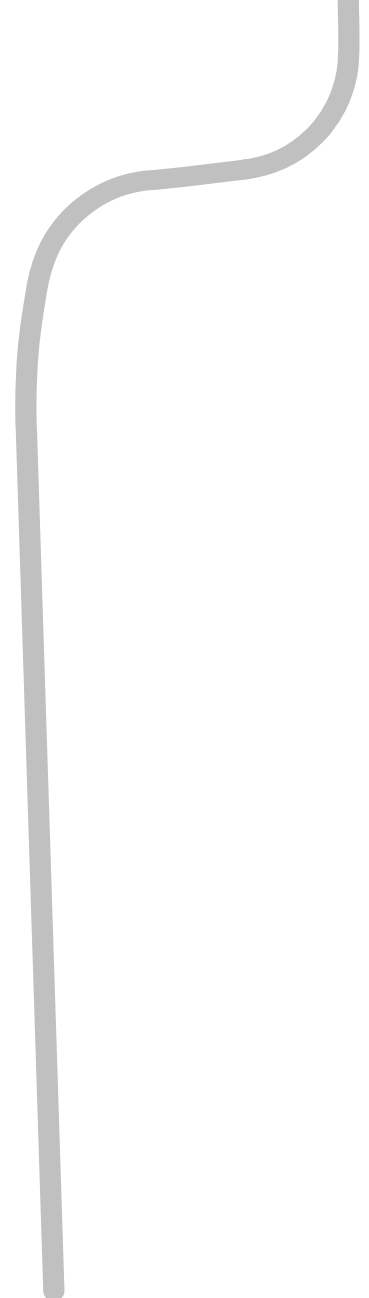
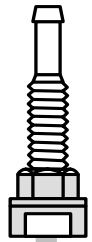
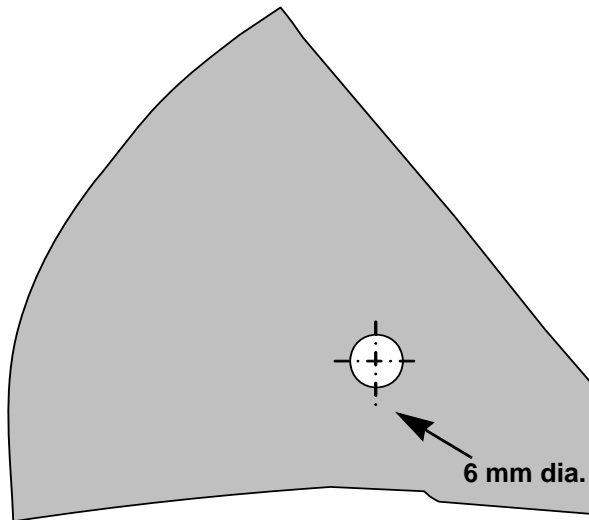
0





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%.

Correct major differences in the printer settings or request an original printout.

100 mm

0