

Water Heater

Thermo Top Evo Parking Heater



Installation Documentation

Opel Corsa

Validity

Manufacturer	Model	Type	EG-BE-No. / ABE
Opel	Corsa	S-D	e1 * 2001 / 116 * 0379 * ...

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.2	Petrol	5-speed SG	51	1229	A12XER
1.4	Petrol	5-speed SG	64	1398	A14XER
1.4	Petrol	5-speed SG	74	1398	A14XER

SG = Manual transmission

From Model Year 2010
Left-hand drive vehicle

Verified equipment variants: Manual / automatic air-conditioning system

Front fog light

Not verified: Passenger compartment monitoring
Quick Heat Heating System

Total installation time: approx. 8.5 hours

Opel Corsa

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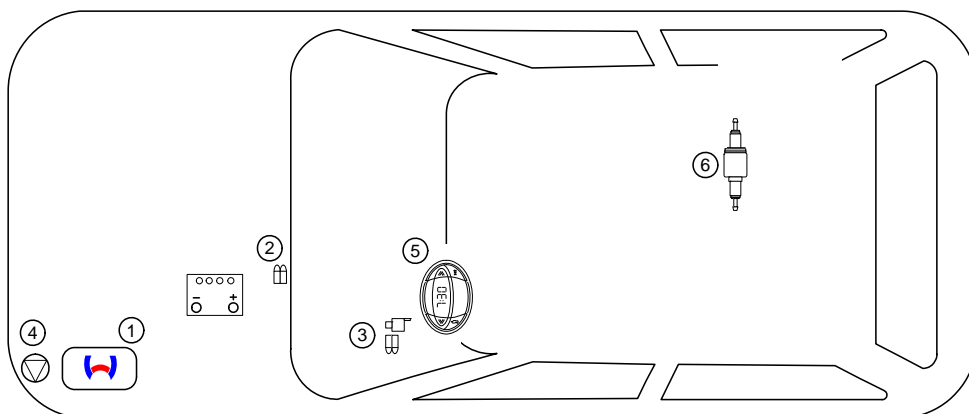
Necessary Components

- Basic delivery scope *Thermo Top Evo* based on price list
- Installation kit for Opel Corsa 2010 Petrol: **1316242A**
- Heater control in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and upon consultation with end customer

Installation Overview

Legend:

1. Heater
2. Fuse holder of engine compartment
3. Passenger compartment fuse holder
4. Circulating pump
5. Digital timer
6. Metering pump



Notes on Total Installation Time

The total installation time includes the time needed for mounting and demounting of the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater.

The total installation time may vary for vehicle equipment other than provided.

Information on Operating and Installation Instructions

1 Important Information (not complete)

1.1 Installation and Repair



The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.



Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation.

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel Diesel (DIN EN 590) or petrol (DIN EN 227).

The heater may not be cleaned with a high-pressure cleaner.

1.3 Please note

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

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

Important

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs, installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

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. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components!

The initial startup is to be executed with the Webasto Thermo Test Diagnosis.

When installing an IPCU, the corresponding settings must be checked or adjusted before the installation.

2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 03 5627

Note

The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

Note

For vehicles with an EU permit, no entry in accordance with § 19 Sub-Section 4 of Annex VIII b to the Road Traffic Act is required.

2.1 Excerpt from the directive 2001/56/EC Appendix VII for the installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.

2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.

2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.

2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.

2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.

2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.

2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.

2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

2.5. Combustion air inlet

2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.

2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle source.

2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.

2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

In multilingual versions the German language is binding.

Opel Corsa

Notes on Validity

This installation documentation applies to the Opel Corsa Petrol vehicles - for validity, see page 1 - from model year 2010 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

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

Technical Instructions

Special Tools

- Hose clamp pliers for self-clamping hose clamps
- Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 - 6mm²
- Crimping pliers for cable lug / tab connector 0.5 - 6mm²
- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- Webasto Thermo Test diagnosis with current software

Dimensions

- All dimensions are in mm

Tightening torque values

- Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm.
- Tightening torque of 5x15 bolt of water connection piece retaining plate = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology.

Explanatory Notes on Document

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

Special features are highlighted using the following symbols:

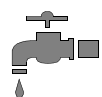
Mechanical system



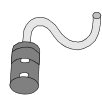
Electrical system



Coolant circuit



Combustion air



Fuel



Exhaust gas



Software



Specific risk of injury or fatal accidents



Specific risk of damage to components



Specific risk of fire and explosion



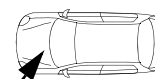
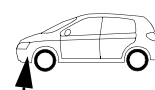
Reference to general installation instructions of the Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature



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



Opel Corsa

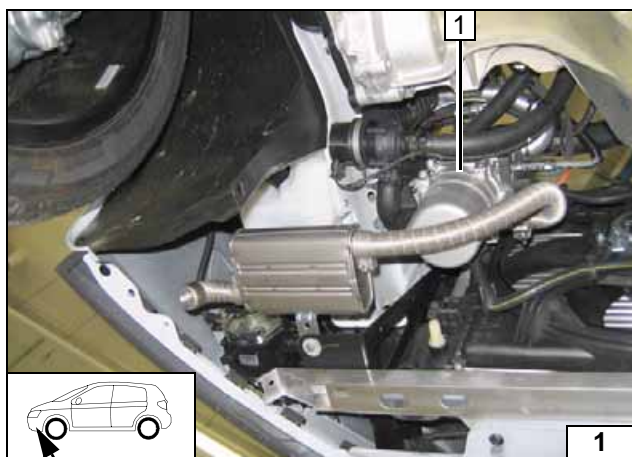
Preliminary Work

Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect the battery.
- Remove the engine control unit.
- Disconnect the coolant expansion tank and lay it aside.
- Remove the rear bench seat.
- Open the right-hand tank-fitting service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturer's instructions.
- Remove the cover of the light switch.

Heater

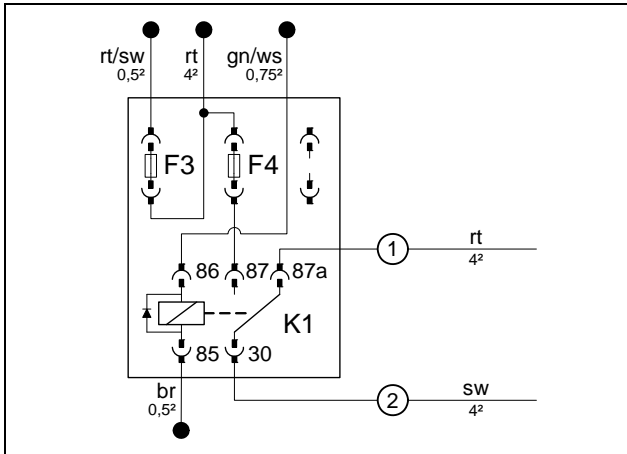
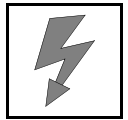
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) in the appropriate place inside the engine compartment.



Heater Installation Location

1 Heater

Installation
location



Preparing Electrical System

Wire sections retain their numbering in the entire document.

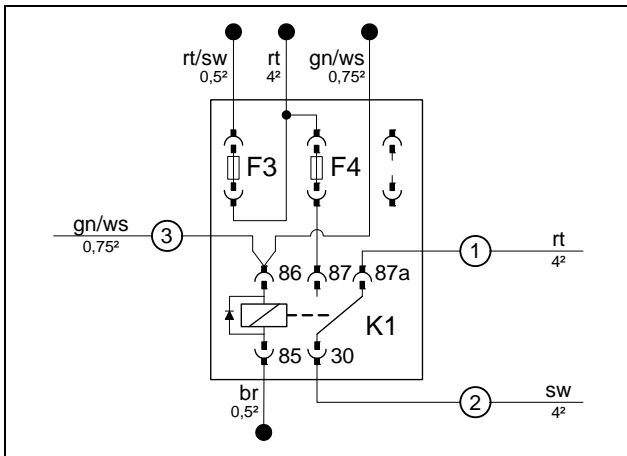
Manual air-conditioning

Produce connections as shown in wiring diagram.

F4 25A and K1 relays are installed after assembling the fuse carrier. Wiring harness with red (rt) wire ① and black (sw) wire ② will be routed later in the footwell on the front passenger's side to the fan motor.



Preparing fuse carrier of the passenger compartment



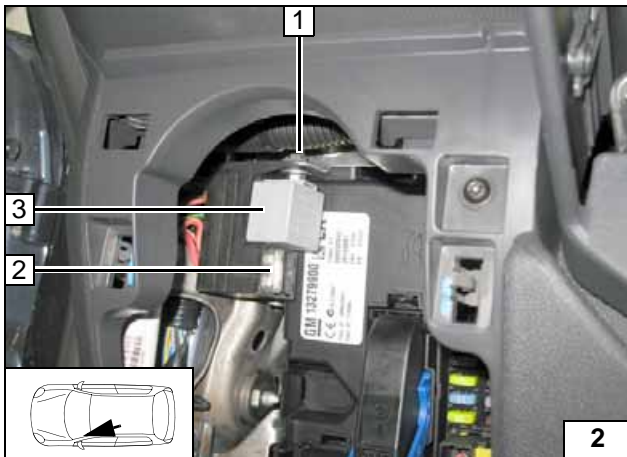
Automatic air-conditioning

Produce connections as shown in wiring diagram.

F4 25A and K1 relays are installed after assembling the fuse carrier. Wiring harness with red (rt) wire ① and black (sw) wire ② will be routed to the fuse and relay box inside the engine compartment later. Pull green/white (gn/ws) wire ③ into protective sleeving, will be routed to the A/C control panel later.



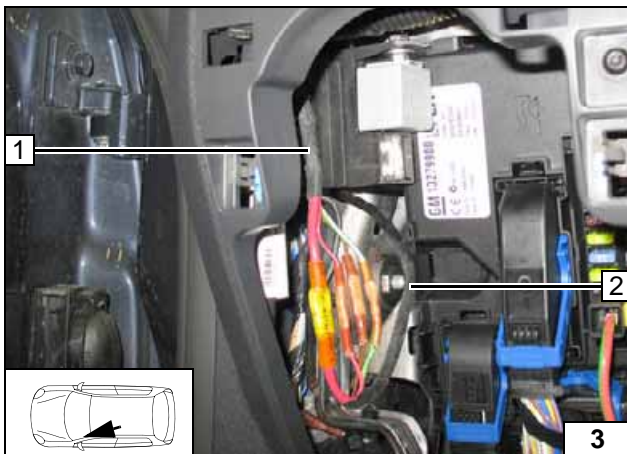
Preparing fuse carrier of the passenger compartment



All vehicles

- 1 Mount M5x16 bolt, large diameter washer, flanged nut, existing hole
- 2 F4 25A fuse mounted
- 3 K1 relay mounted

Installing passenger compartment fuse holder



Connect wiring harness of fuse holder in passenger compartment 1 to wiring harness of fuse holder in engine compartment 2 according to the wiring diagram, so that the wires of the same colour are connected!



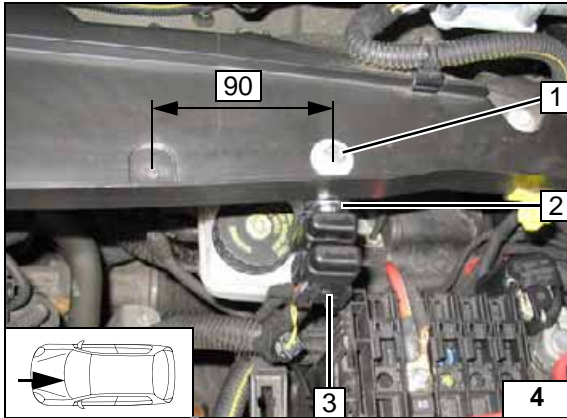
Connecting the wiring harnesses



Electrical System

Engine compartment fuse holder

- 1 7 mm dia. hole, M6x20 bolt, large diameter washer, angle bracket, flanged nut
- 2 M5x16 bolt, large diameter washer, retaining plate of fuse holder, angle bracket, flanged nut
- 3 F1-2 fuses mounted



Digital timer

- 1 Digital timer

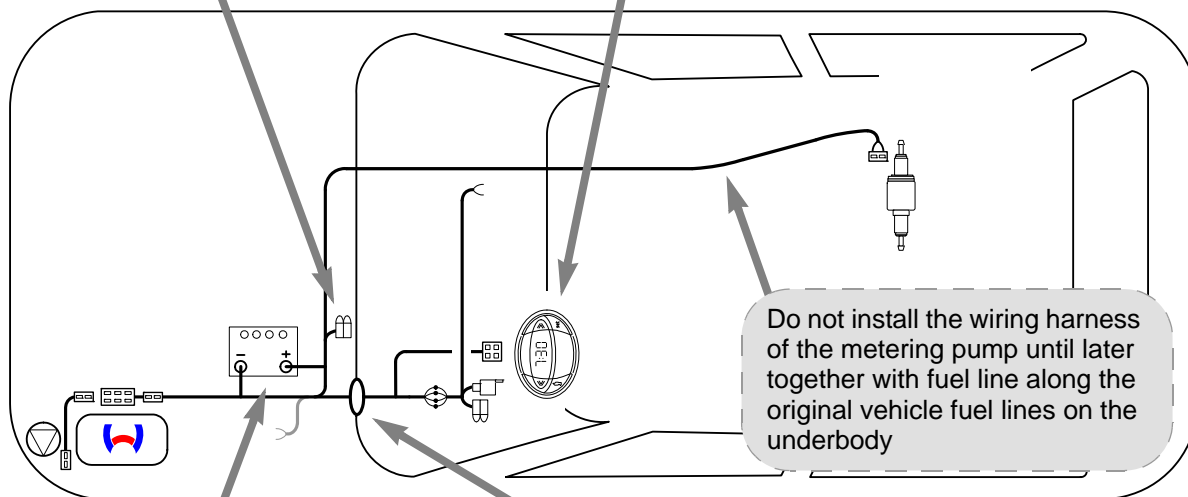
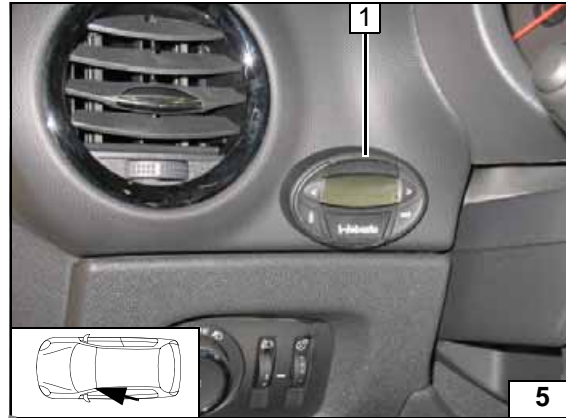
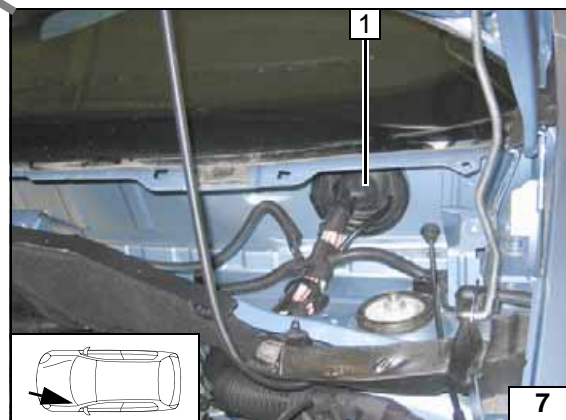


Diagram of wiring harness routing



Positive and earth wire

- 1 Positive wire on positive battery terminal
- 2 Earth wire on negative battery terminal

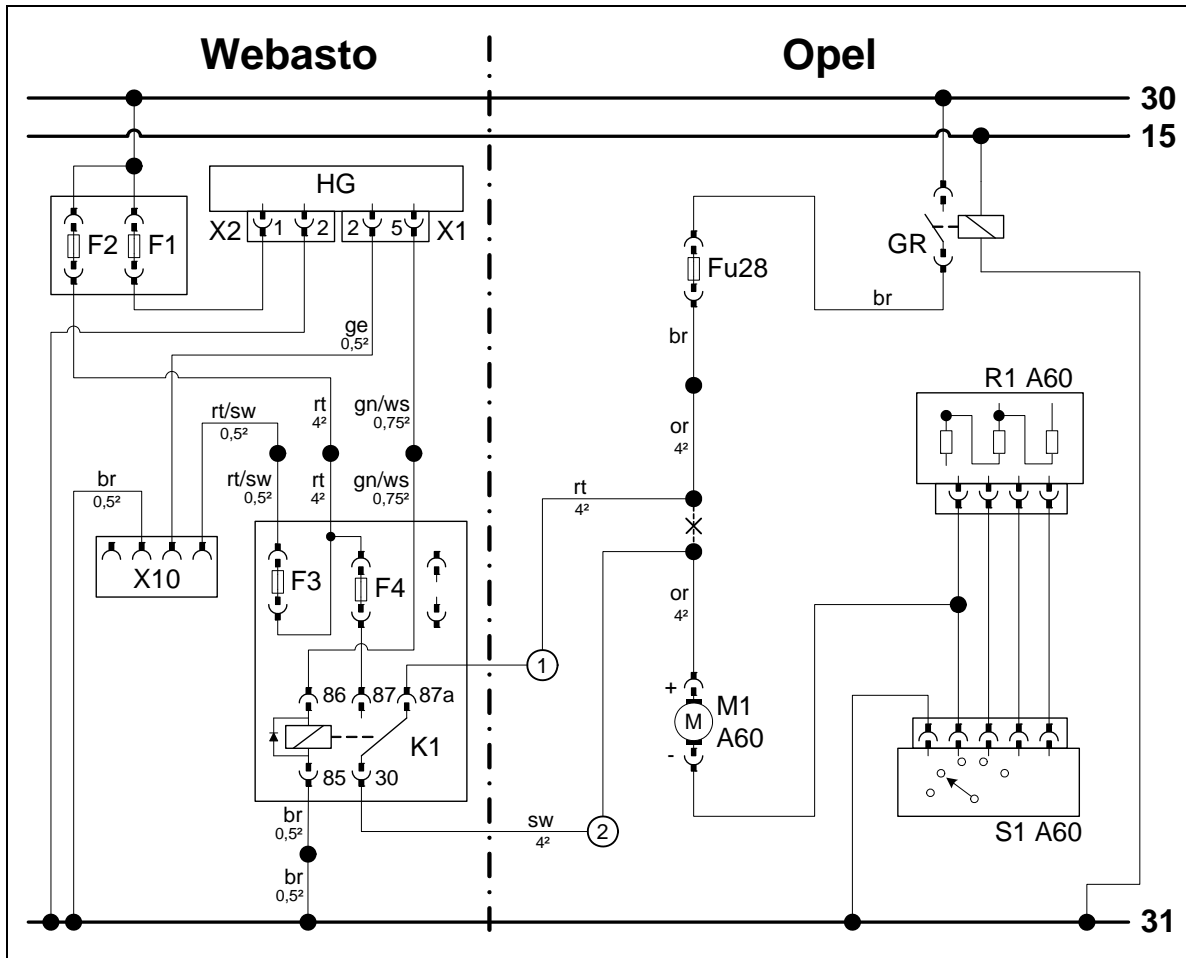


Wiring harness pass through

- 1 Protective rubber plug



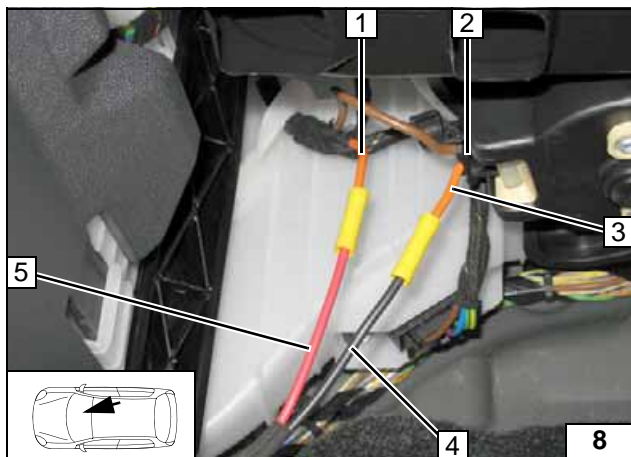
Manual Air-Conditioning Fan Controller



Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	Fu28	Fuse	rt	red
X1	6-pin heater connector	GR	Fan relay	ws	white
X2	2-pin heater connector	R1 A60	Resistor group	sw	black
X10	4-pin connector of Heater control	M1 A60	Fan motor	br	brown
K1	Fan relay	S1 A60	Fan switch	gn	green
F1	Fuse 20A			ge	yellow
F2	Fuse 30A			or	orange
F3	Fuse 1A			X	Cutting point
F4	Fuse 25A			Wiring colours may vary.	

Legend



Connection to 2-pin connector 2 from fan motor. Produce connections as shown in wiring diagram.

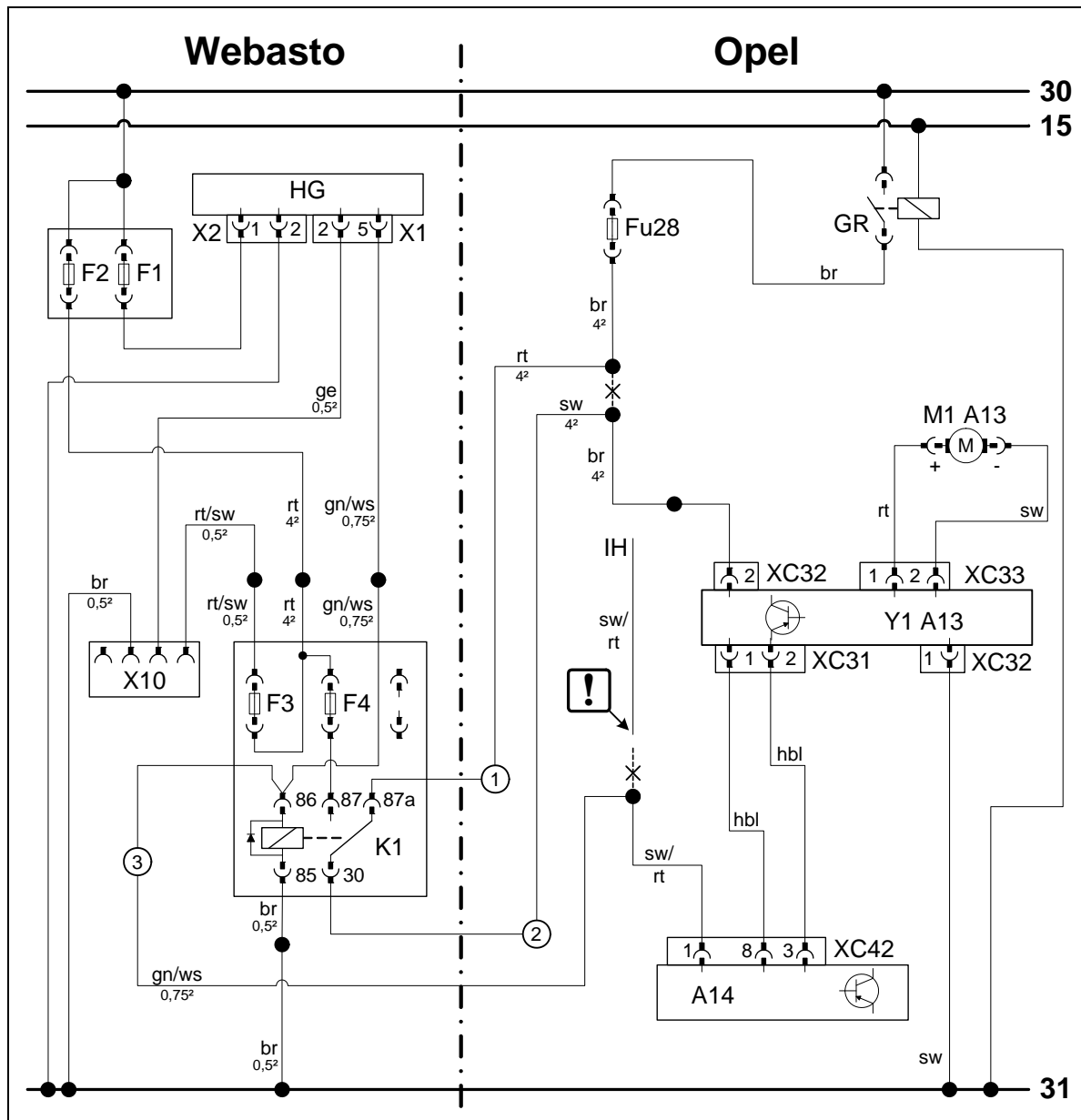


- 1 Orange (or) wire of Fu28 fuse
- 3 Orange (or) wire of 2-pin connector GM
- 4 Black (sw) wire ② of K1/30
- 5 Red (rt) wire ① of K1/87a

Connecting fan motor



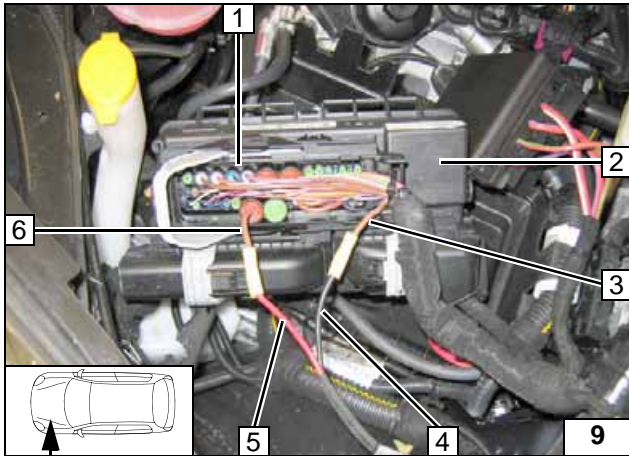
Automatic Air-Conditioning Fan Controller



Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	FU28	Fuse 40A	rt	red
X1	6-pin heater connector	GR	Fan relay	ws	white
X2	2-pin heater connector	M1 A13	Fan motor	sw	black
X10	4-pin connector of Heater control	XC.....	Connector designations	br	brown
K1	Fan relay	IH	Independent heater	gn	green
F1	Fuse 20A	Y1 A13	Fan controller	hbl	light blue
F2	Fuse 30A	A14	A/C control panel	or	orange
F3	Fuse 1A				Insulate wire end and tie back
F4	Fuse 25A			X	Cutting point
Wiring colours may vary.					

Legend

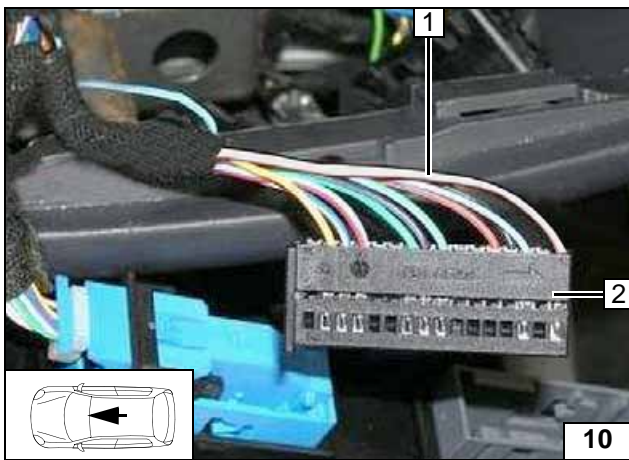


Connection to connector 1 of fuse and relay box 2 in engine compartment
Produce connections as shown in wiring diagram.

- 3 Brown (br) wire to fan controller
- 4 Black (sw) wire ② of K1/30
- 5 Red (rt) wire ① of K1/87a
- 6 Orange (or) wire of Fu28 fuse



**Connect-
ing fan mo-
tor**



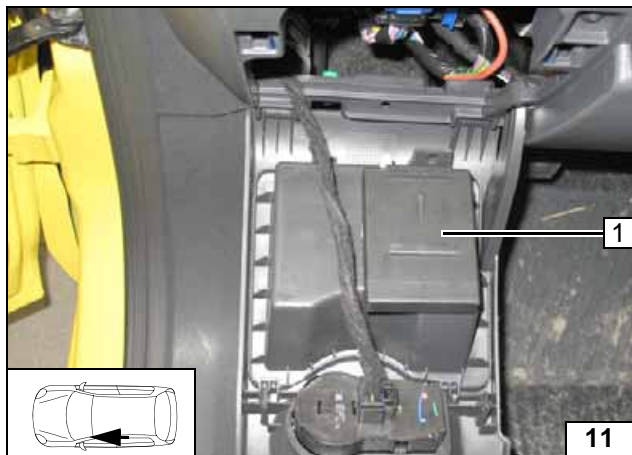
Connection to grey 32-pin, XC42 connector 2 from the air-conditioning control panel.
Disconnect black/red (ws/rt) wire 1 and produce connection as shown in wiring diagram.

Warning!

If no black/red (sw/rt) wire is available on Pin 1, the green/white (gn/ws) wire ③ from K1/86 is connected there with the attached microtimer.



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

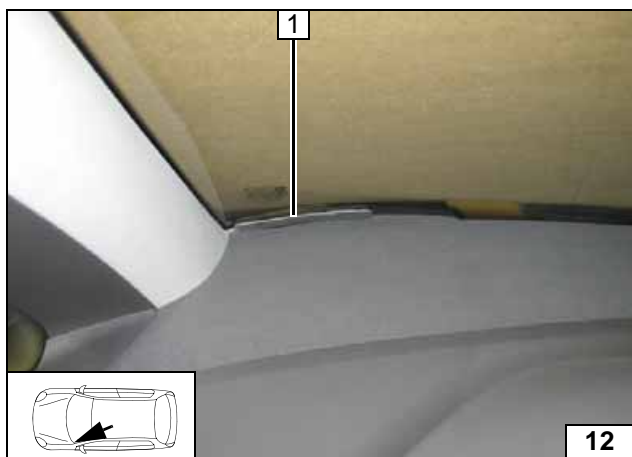


Remote Option (Telestart)

Fasten receiver 1 with adhesive tape.

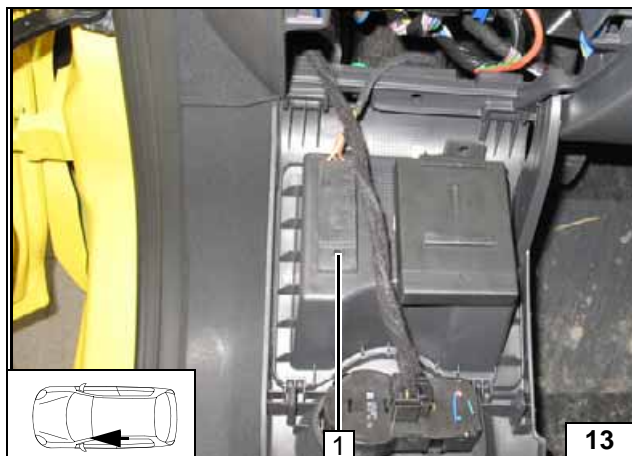


Mounting receiver



1 Antenna

Mounting antenna

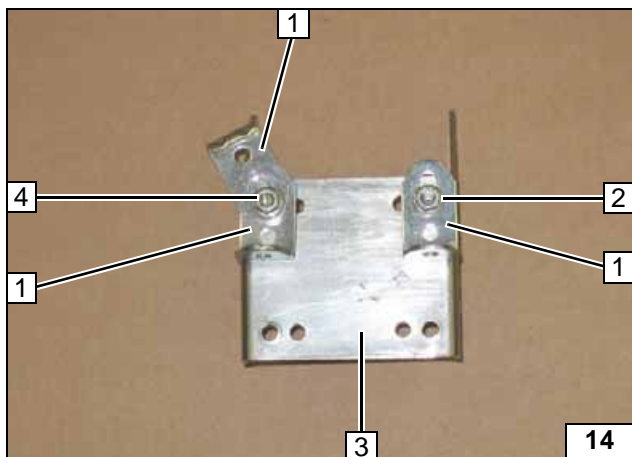


Installing T100 HTM temperature sensor

Fasten temperature sensor 1 with adhesive tape.



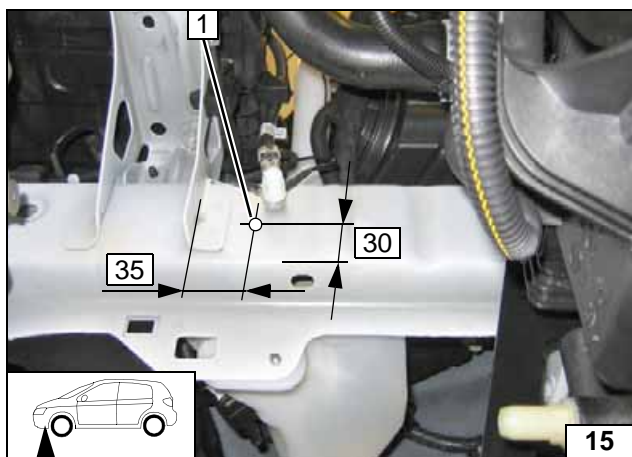
Installing temperature sensor



Preparing Bracket

- 1 Angle bracket [3x]
- 2 M6x12 bolt, flanged nut
- 3 Bracket
- 4 M6x16 bolt, flanged nut

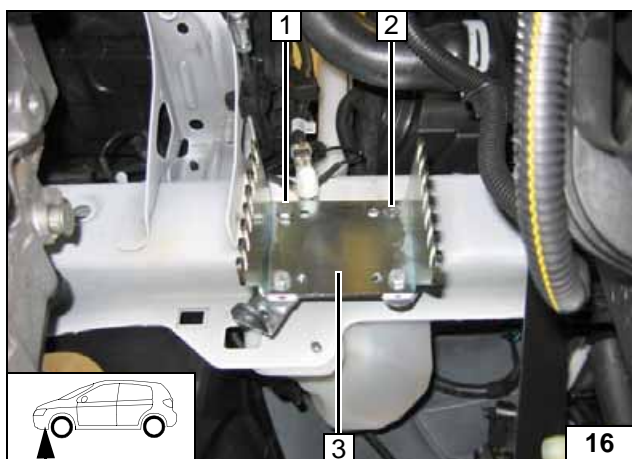
Preparing bracket



Preparing Installation Location

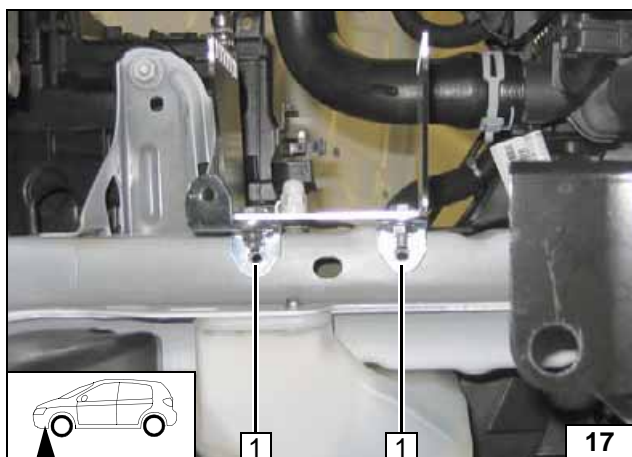
- 1 9.1 mm dia. hole; rivet nut

Installing rivet nut



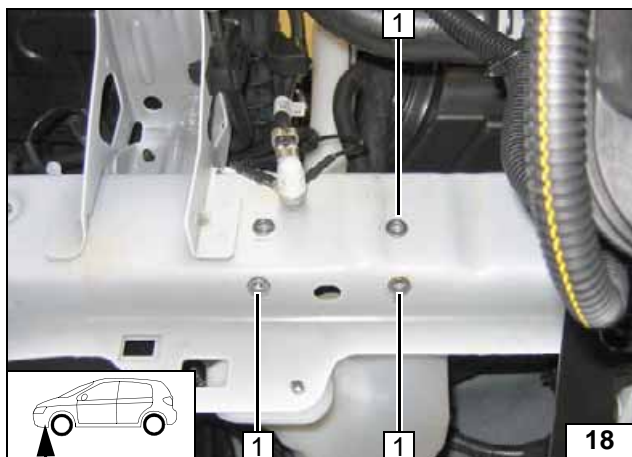
- 1 M6x25 bolt
- 2 Copy hole pattern
- 3 Loosely mount bracket

Installing bracket loosely



- 1 Copy hole pattern [2x]

Copying hole pattern

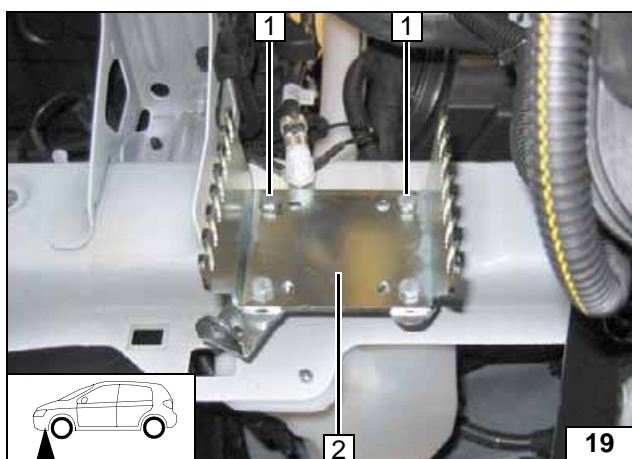


Remove bracket.

- 1 9.1 mm dia. hole; rivet nut [3x each]



Installing rivet nuts

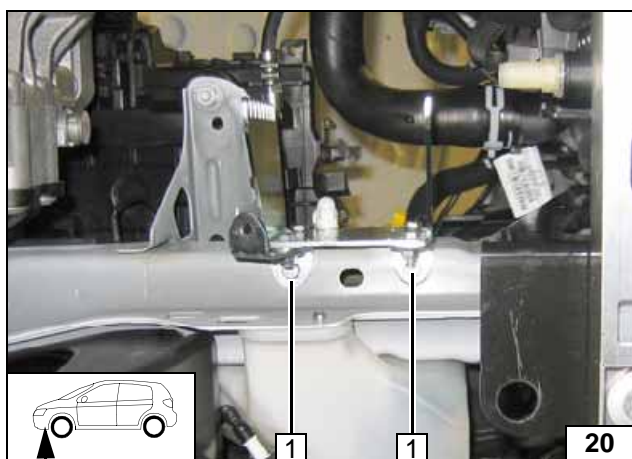


Insert one 5 mm shim each between bracket 2 and frame side member.

- 1 M6x25 bolt, spring lockwasher, 5mm shim [2x each]

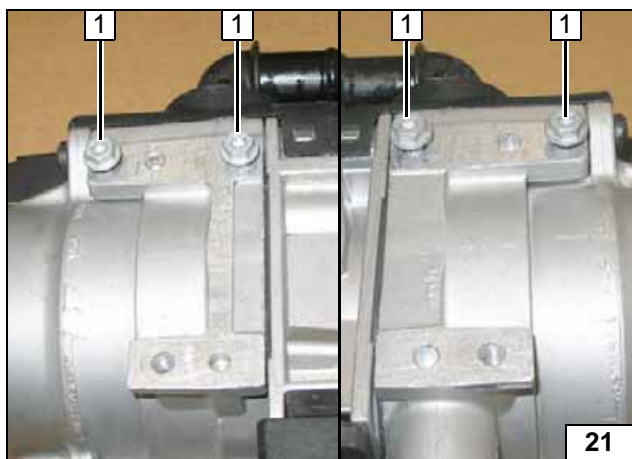


Mounting bracket



- 1 M6x20 bolt, spring lockwasher [2x]

Mounting bracket

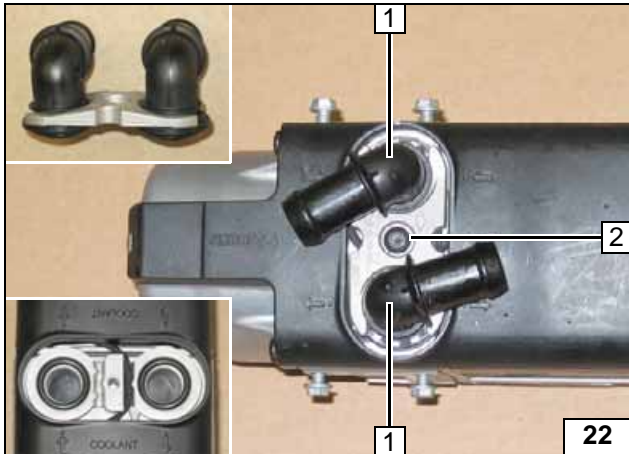


Preparing Heater

Pre-cut threads with 5x13 self-tapping bolt 1 [4x] and install loosely (turn max. 3 threads)!



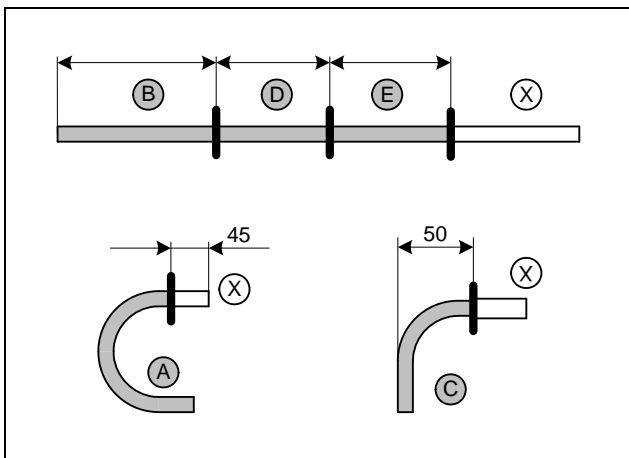
Premounting bolts loosely



- 1 Water connection piece, sealing ring [2x each]
- 2 5x15 self-tapping bolt, retaining plate of water connection pieces



Installing water connection pieces

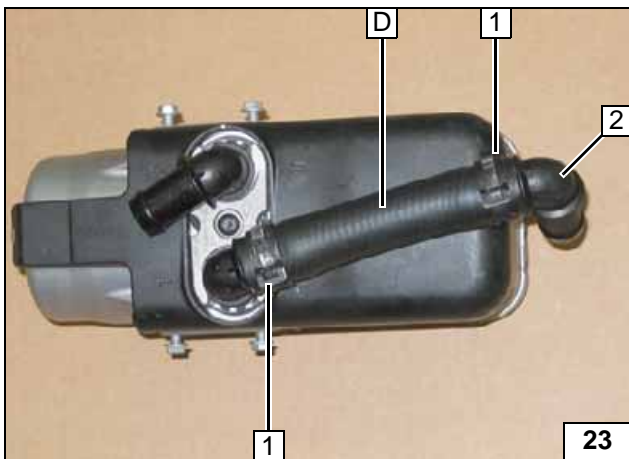


Discard section X.
Shorten hose A = 180°, 20x20 moulded hose.
Shorten hose C = 90°, 18x20 moulded hose.

- B = 340
- D = 120
- E = 320

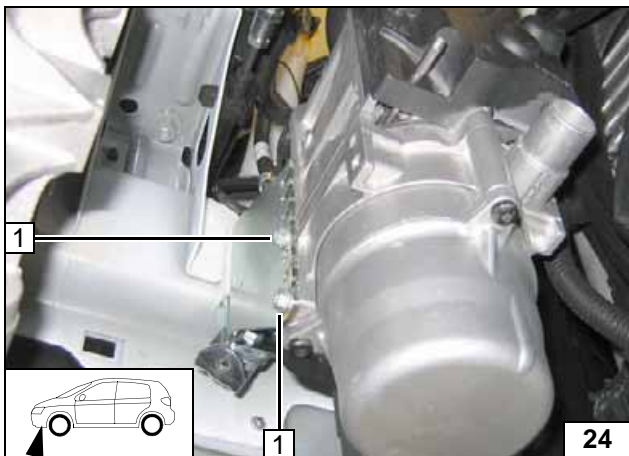


Cutting coolant hoses to length



- 1 25 mm dia. spring clip [2x]
- 2 90°, 18x18 connecting pipe

Premounting hose D

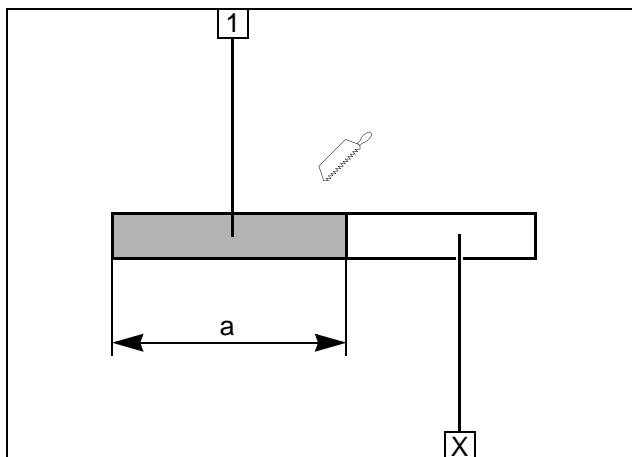
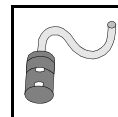


Installing Heater

Tighten the 5x13 bolts 1 [2x] on the heater.



Mounting heater



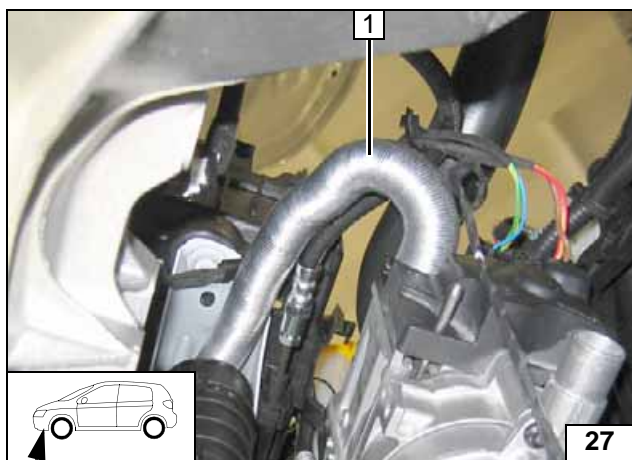
Combustion Air

Discard section X.

- 1 Combustion air pipe
a = 300



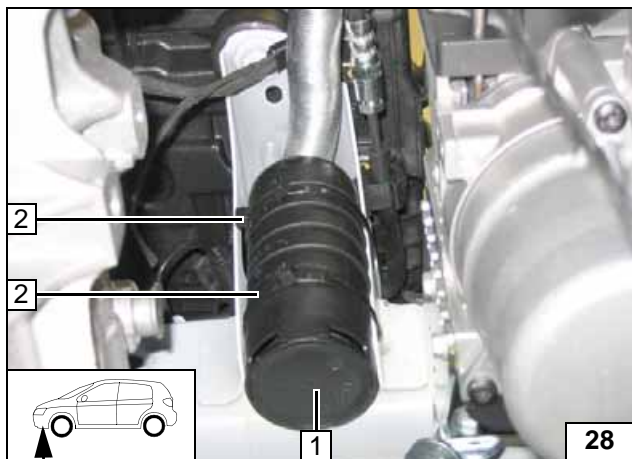
Cutting combustion air pipe to length



- 1 Combustion air pipe



Mounting combustion air pipe



- 1 Silencer
- 2 Cable tie [2x]



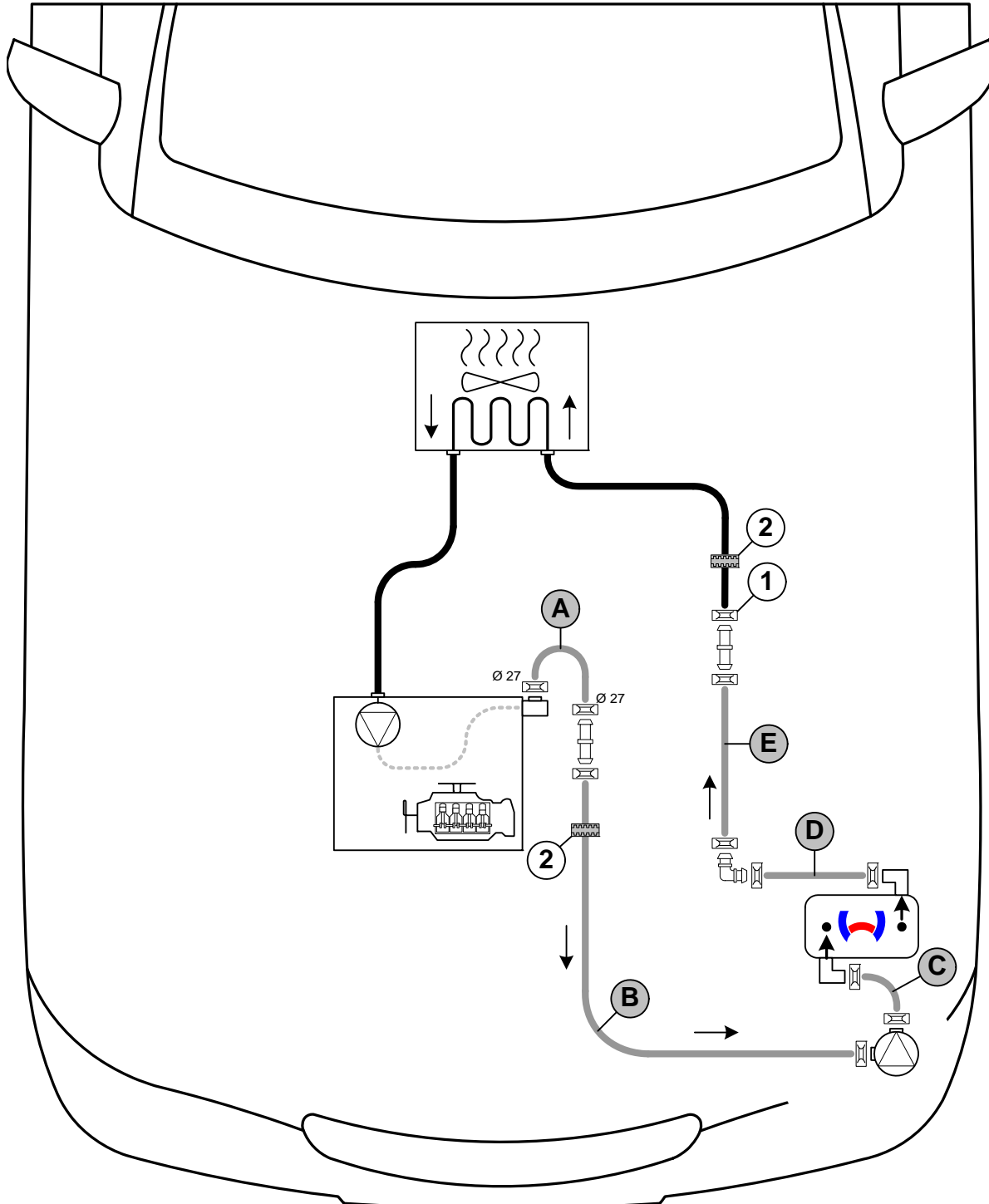
Installing silencer








Coolant Circuit

WARNING!

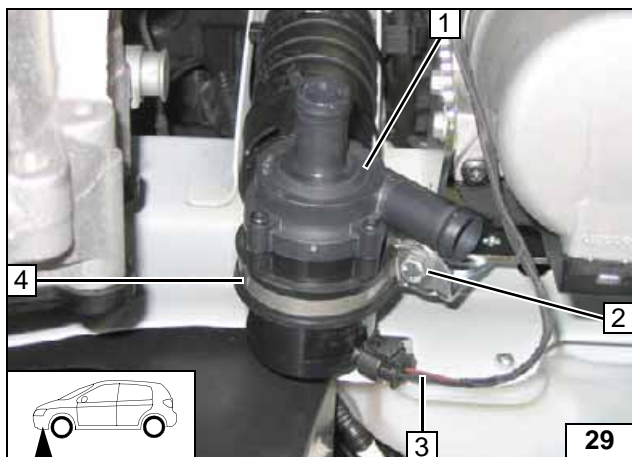
Any coolant running off should be collected using an appropriate container. Route coolant hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hose cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection should be "inline" based on the following diagram:



Hose installation diagram

All spring clips without a specific designation  = 25 mm dia. Connecting pipe  = Ø 18x18!
 All connecting pipes  = Ø 18x20!
 1 = Original vehicle spring clip ! 2 = Black (sw) rubber isolator .





- 1 Circulating pump
- 2 M6x25 bolt, flanged nut
- 3 Mount wiring harness of circulating pump
- 4 Rubber-coated pipe clamp, 48 mm dia.

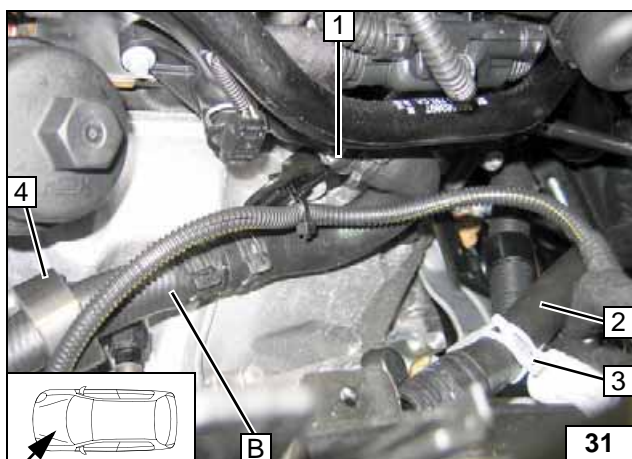
Installing circulating pump



Connect hose **C** with short leg to circulating pump.



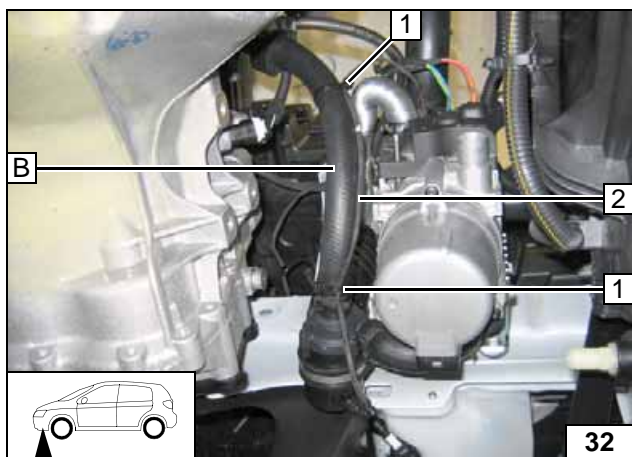
Connecting circulating pump



Slide black (sw) rubber isolator **4** onto hose **B**. Disconnect hose of heat exchanger inlet **2** at connection piece of engine outlet **1**. Original vehicle spring clip **3** will be reused. Connect hose **A** with short leg to connection piece on engine outlet.

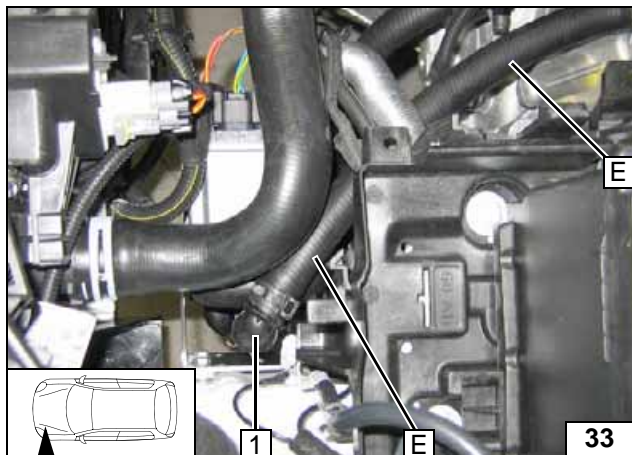


Connecting engine outlet



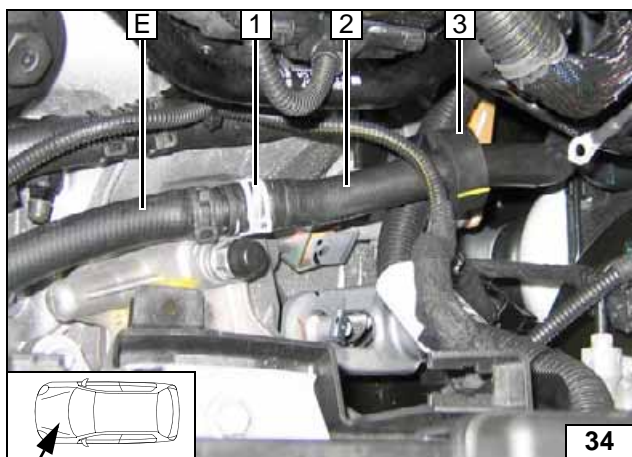
- 1 Cable tie
- 2 Wiring harness of circulating pump

Connecting circulating pump



1 90° connecting pipe of hose D

Connect-
ing heater
outlet

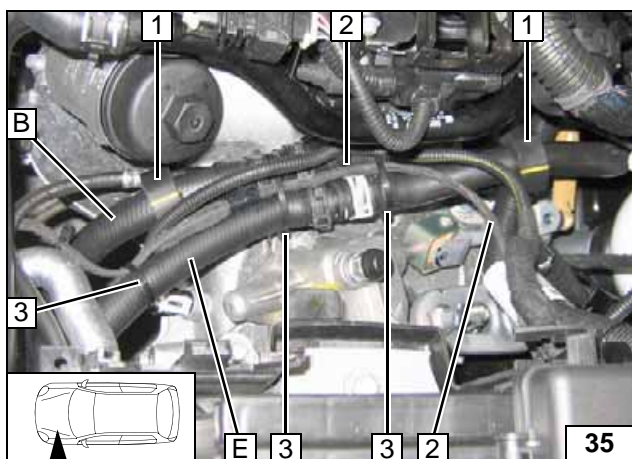


Slide black (sw) rubber isolator 3 onto hose of heat exchanger inlet 2.
Ensure sufficient distance to neighbouring components.



1 Original vehicle spring clip

Connect-
ing heat ex-
changer
inlet



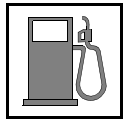
Align black (sw) rubber isolator 1 [2x] to original vehicle lines.
Ensure sufficient distance to neighbouring components.



2 Wiring harness of heater
3 Cable tie

Aligning
hoses

Opel Corsa



Fuel

CAUTION!

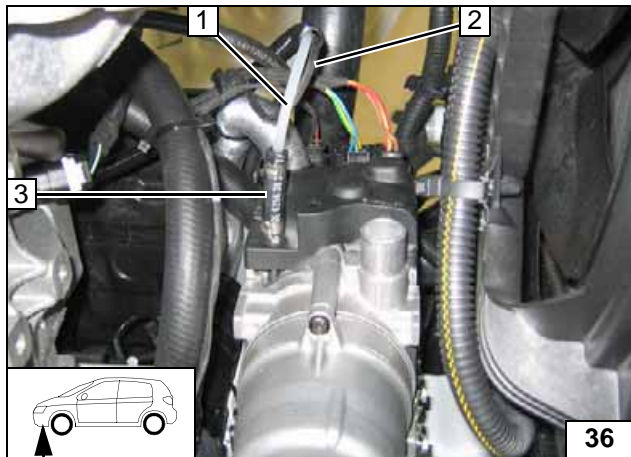
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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 as shown in the wiring harness routing diagram.

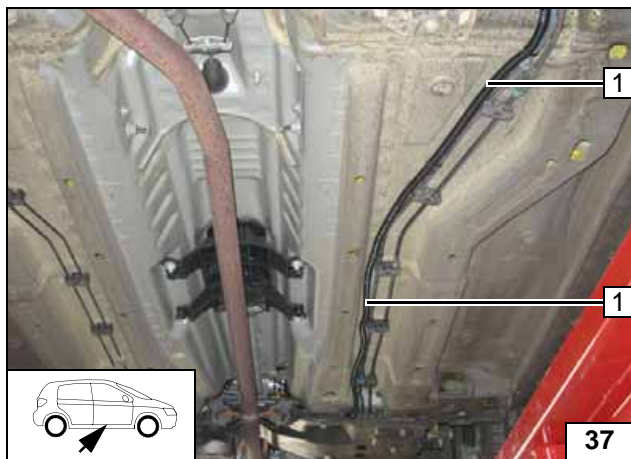


Draw fuel line 1 and wiring harness of metering pump 2 into corrugated tube 2100, route to firewall and further to right side of vehicle!

2 Hose section, 10 mm dia. clamp [2x]



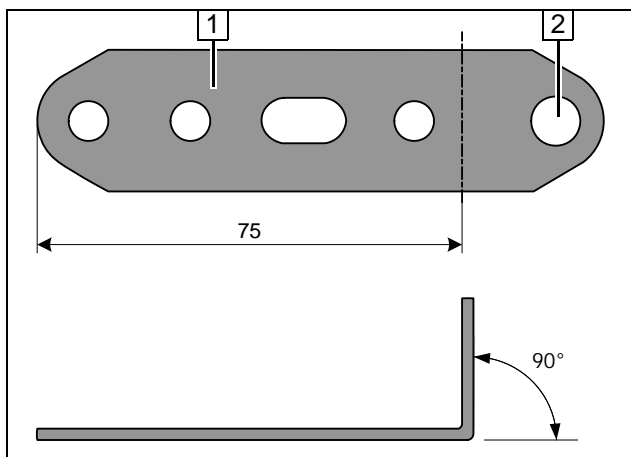
**Connect-
ing heater**



Route wiring harness of metering pump and fuel line in corrugated tube 1 along original vehicle lines to installation location of metering pump!

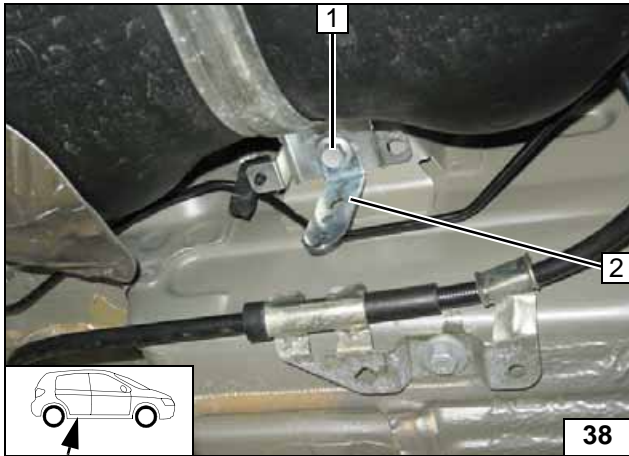
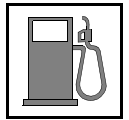


**Routing
lines**



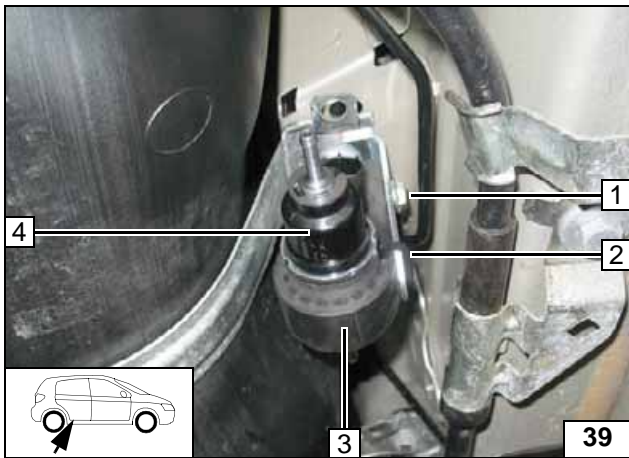
1 Angle down perforated bracket
2 Drill 8.5 mm dia. hole

**Preparing
perforated
bracket**



- 1 Original vehicle bolt for fuel tank fastening
- 2 Perforated bracket

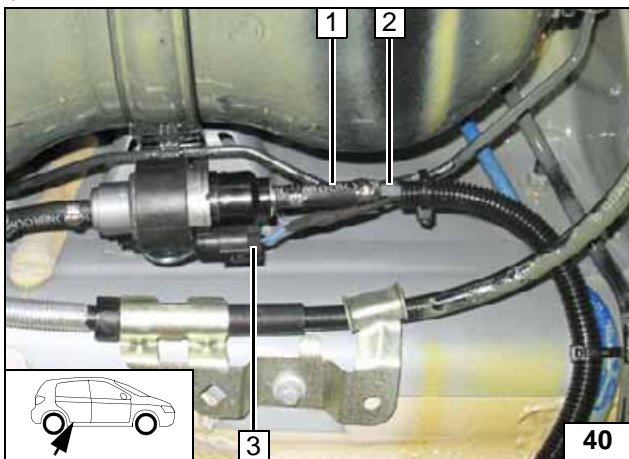
Mounting perforated bracket



- 1 M6x25 bolt, flanged nut
- 2 Cable tie
- 3 Mounting of metering pump
- 4 Metering pump

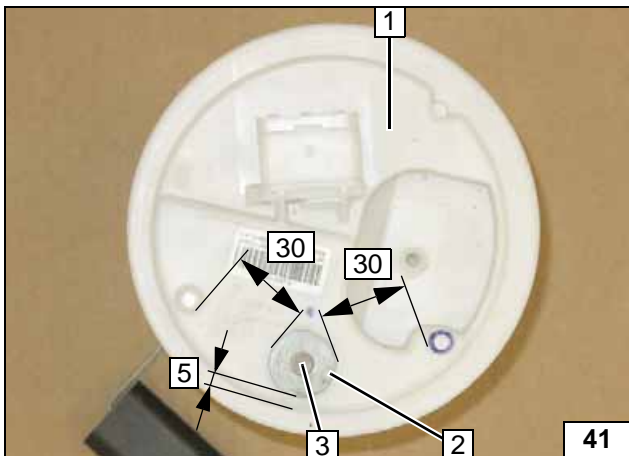


Mounting metering pump



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

Connecting metering pump

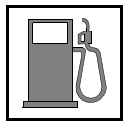


Remove fuel-tank sending unit 1 in accordance with manufacturer's instructions.

- 2 Large diameter washer outer dia. $d_a = 21.6\text{mm}$
- 3 Copy hole pattern, 6 mm dia. hole



Fuel extraction



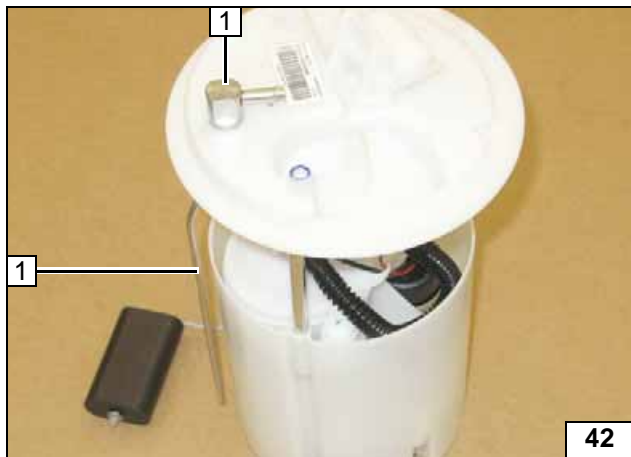
Installing fuel standpipe



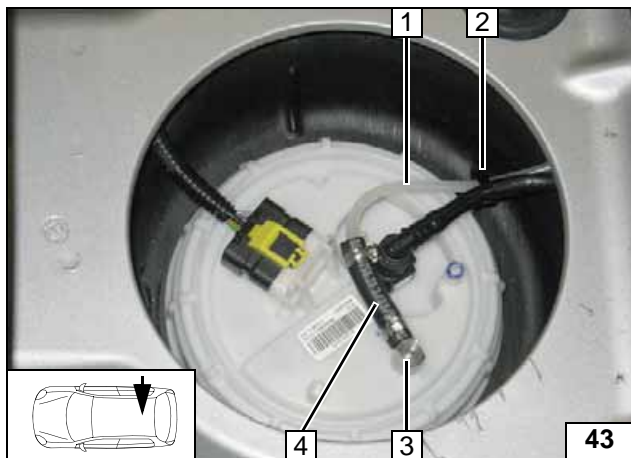
Connecting fuel line



Connecting metering pump

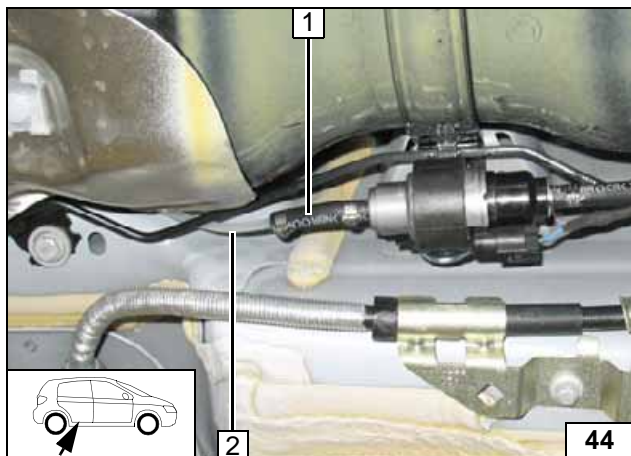


Shape fuel standpipe 1 according to template, cut to length and install.



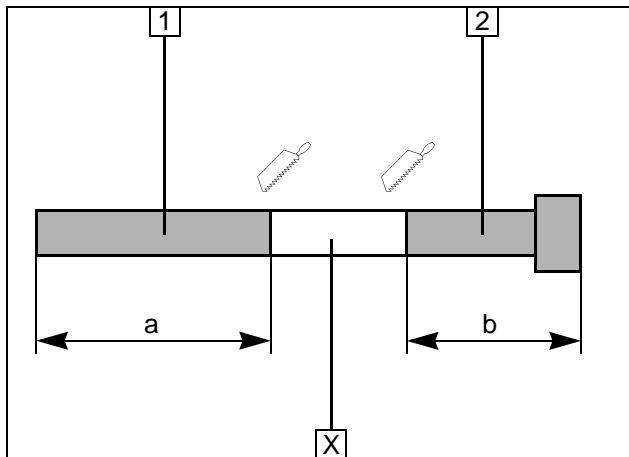
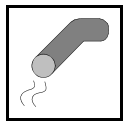
Install fuel-tank sending unit according to manufacturer's instructions.

- 1 Fuel line
- 2 Cable tie
- 3 Fuel standpipe
- 4 Moulded hose, 10 mm dia. clamp [2x]



Check the position of the components; adjust if necessary. Check that they have freedom of movement.

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

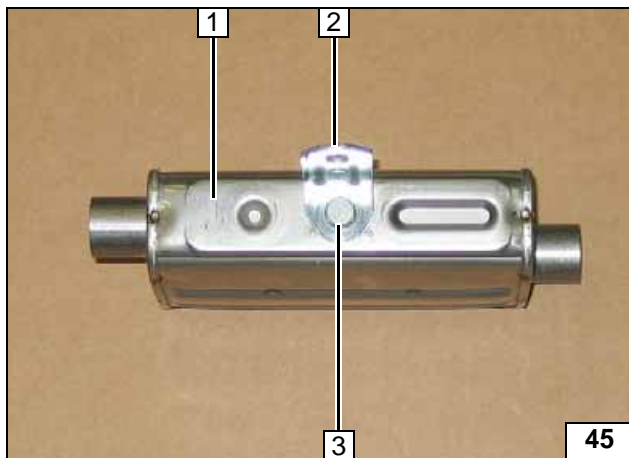


Exhaust Gas

Discard section X.

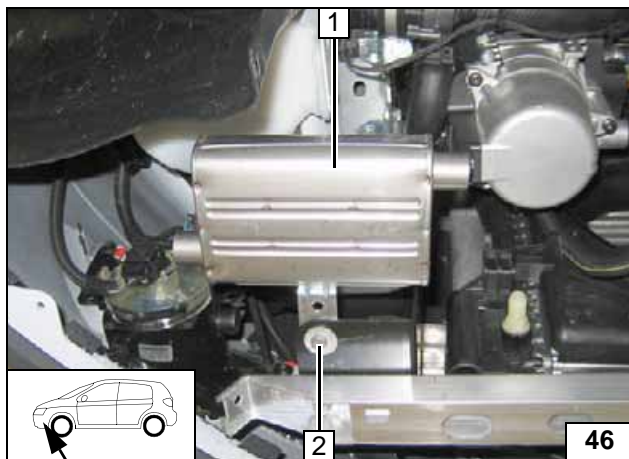
- 1 Exhaust pipe
a = 340
- 2 Exhaust end section
b = 90

Preparing
exhaust
pipe



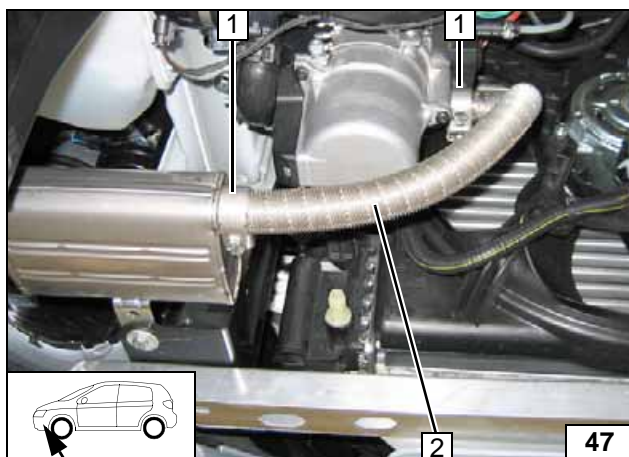
- 1 Silencer
- 2 Angle bracket
- 3 M6x16 bolt, spring lockwasher

Preparing
silencer



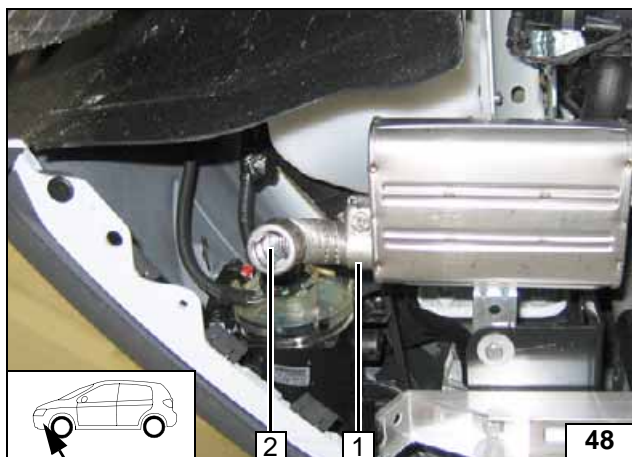
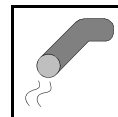
- 1 Silencer
- 2 Mount M6x20 bolt, large diameter washer [2x], flanged nut, existing hole

Installing
silencer



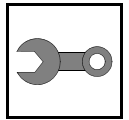
- 1 Hose clamp [2x]
- 2 Exhaust pipe

Mounting
exhaust
pipe



- 1 Hose clamp
- 2 Exhaust end section

**Mounting
exhaust
end section**



Final Work

WARNING!

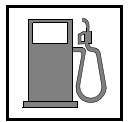
Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose wires.

Only use manufacturer-approved coolant. Spray heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

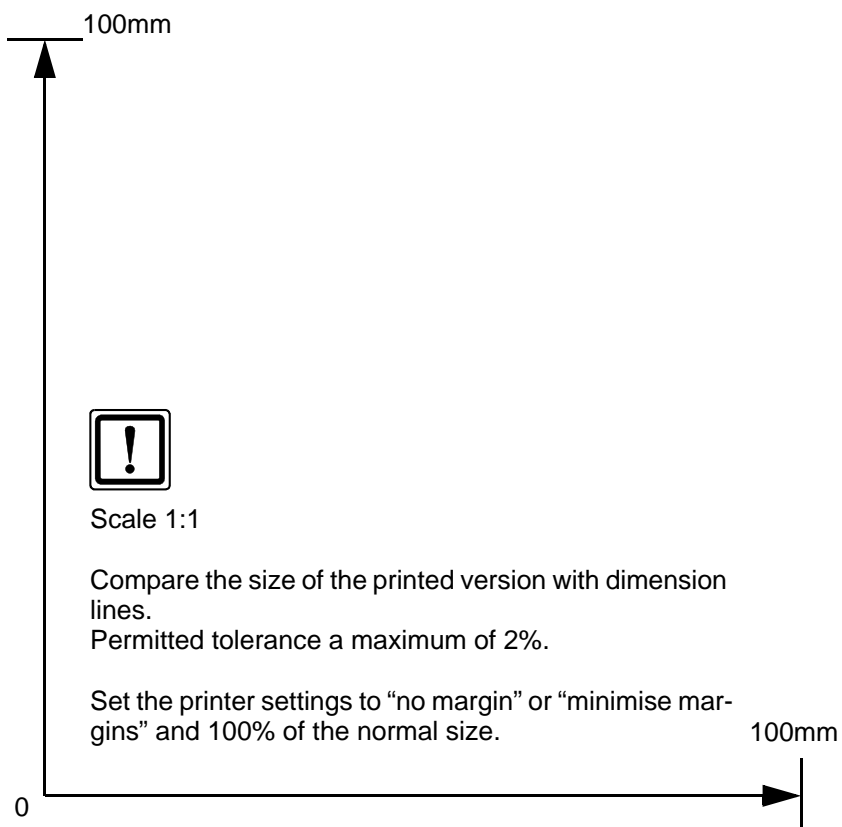


- **Connect the battery.**
- **Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.**
- **Set the digital timer, teach Telestart transmitter**
- **Make settings on A/C control panel according to the "Operating Instructions for End Customer".**
- **Place the "Switch off parking heater before refuelling" signboard in the area of the filler neck**
- **For initial start-up and function check, see installation instructions**

Webasto Thermo & Comfort SE
Postfach 1410
82199 Gilching
Germany
Internet: www.webasto.com
Technical Extranet:
<http://dealers.webasto.com>



Template for Fuel Standpipe



Operating Instructions for Manual Air-Conditioning

Please remove page in case of manual air-conditioning and add it to the vehicle operating instructions.

Note:

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

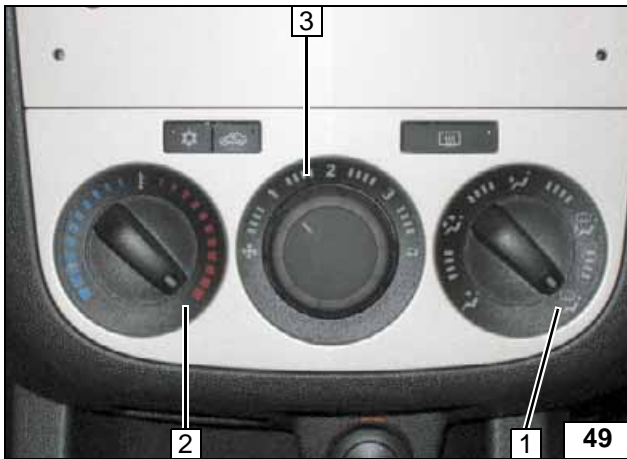
Example:

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

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

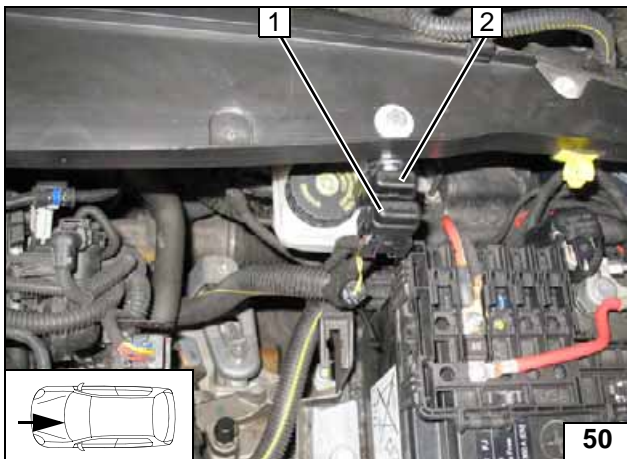
For information on deactivation, please see the vehicle owner's manual.

Before parking the vehicle, make the following settings:



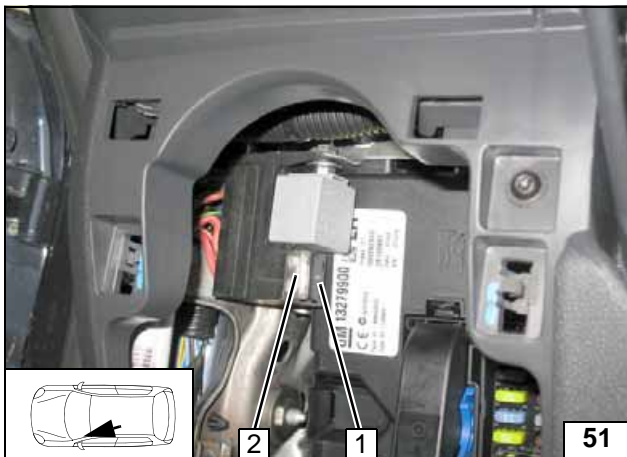
- 1 Air outlet to windscreen
- 2 Set temperature to "max."
- 3 Set fan to level "1", or max. "2"

A/C control panel



- 1 20A heater fuse F1
- 2 30A main fuse F2 of passenger compartment

Fuses of engine compartment



- 1 1A fuse F3 of heater control
- 2 25A fan fuse F4

Fuses of passenger compartment



Operating Instructions for Automatic Air-Conditioning

Please remove this page in case of automatic air-conditioning and add it 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.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

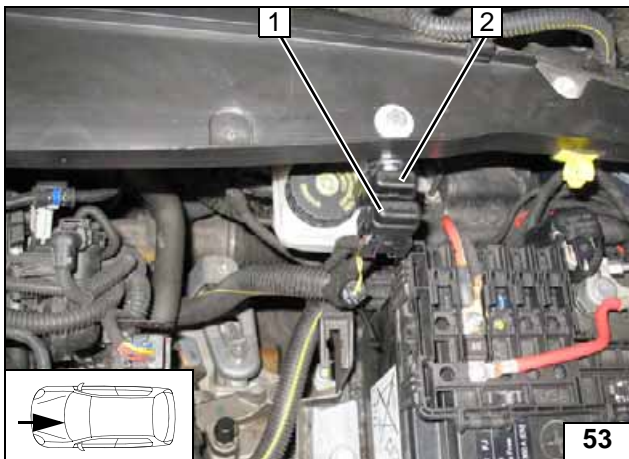
For information on deactivation, please see the vehicle owner's manual.

Before parking the vehicle, make the following settings:



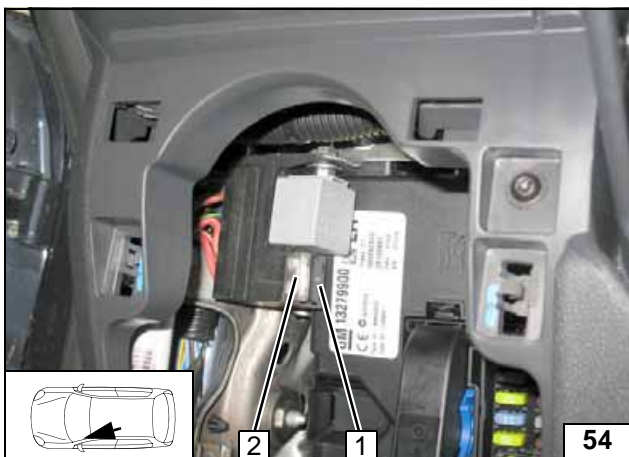
- 1 Set temperature to "max."
- 2 Air outlet to windscreen

A/C control panel



- 1 20A heater fuse F1
- 2 30A main fuse F2 of passenger compartment

Fuses of engine compartment



- 1 1A fuse F3 of heater control
- 2 25A fan fuse F4

Fuses of passenger compartment