

WaterHeater

Thermo Top Evo Parking Heater



Installation Documentation Chevrolet Aveo

Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Chevrolet	Aveo	KL1T	e4 * 2007 / 46 * 0270 * ...

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.4 B	Petrol	SG	74	1398	A14XER
1.6 B	Petrol	SG	85	1598	F16D4

SG = Manual Transmission

starting with model year
2011

Left-hand drive vehicle

verified equipment variants: Manual air-conditioning

Front fog light

Total installation time: approx. 7 hours

Chevrolet Aveo

Table of Contents

Validity	1	Preparing Installation Location	10
Necessary Components	2	Preparing Heater	12
Installation Overview	2	Installing Heater	13
Notes on Total Installation Time	2	Coolant Circuit	15
Notes on Operating and Installation Instructions	3	Combustion Air	20
Notes on Validity	4	Fuel	21
Technical Instructions	4	Exhaust Gas	24
Explanatory Notes on Document	4	Final Work	26
Preliminary Work	5	Fuel Standpipe Template	27
Installation Location of Heater	5	Operating Instructions for End Customer	28
Preparing Electrical System	6		
Electrical System	7		
Fan Controller	8		
Remote Option (Telestart)	9		

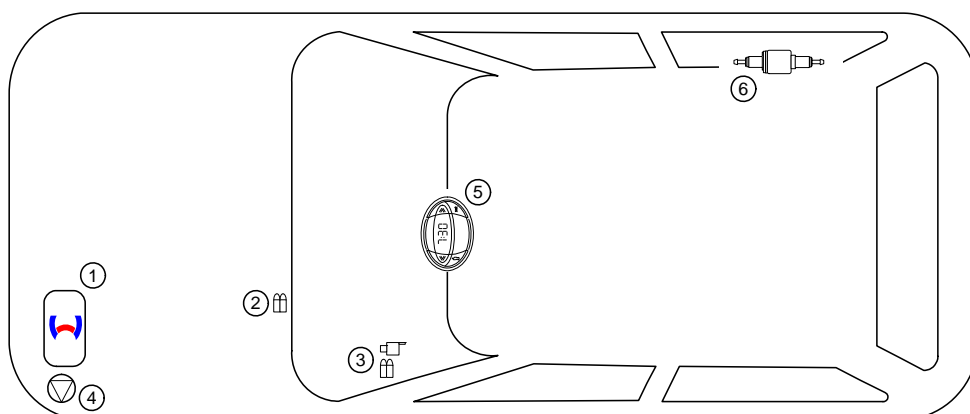
Necessary Components

- Basic delivery scope for *Thermo Top Evo* based on price list
- Installation kit for Chevrolet Aveo 2011 Petrol: **1317991A**
- Heater control based on price list and in consultation with end customer
- In case of Telestart, control light in accordance with price list and upon consultation with end customer

Installation Overview

Legend:

1. Heater
2. Fuse holder of engine compartment
3. Fuse holder of passenger compartment
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.

Notes 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 wires and tie back. Connectors of electronic components have to audibly snap into place when inserting them during installation.

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 the 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.

Chevrolet Aveo

Notes on Validity

This installation documentation applies to the vehicles Chevrolet Aveo Petrol - see page 1 for validity - starting with model year 2011 and later, if technical changes to the vehicle do not influence the installation, excluding any liability. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to these "installation instructions".

Vehicle and motor types, equipment variants and other specifications that were 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 values of 5x15 retaining plate of water connection piece bolt = 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



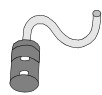
Electrical system



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 or explosion.



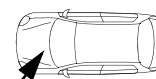
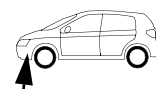
Reference to general installation instructions of the Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.



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



Chevrolet Aveo

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 and remove it completely, including the carrier.
- Remove the lateral wheel well trim on the left side.
- Remove the fuel-tank in accordance with the manufacturer's instructions.
- Remove the fuel-tank sending unit in accordance with the manufacturer's instructions
- Remove the glove compartment.

Heater

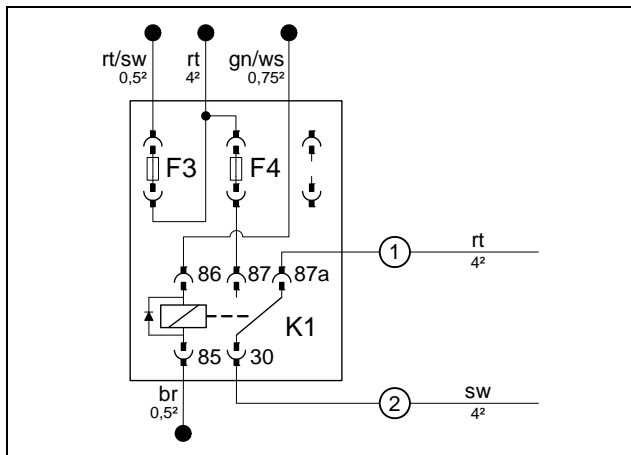
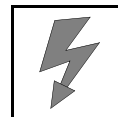
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) in the appropriate place in the engine compartment.



Installation Location of Heater

1 Heater

Installation
location

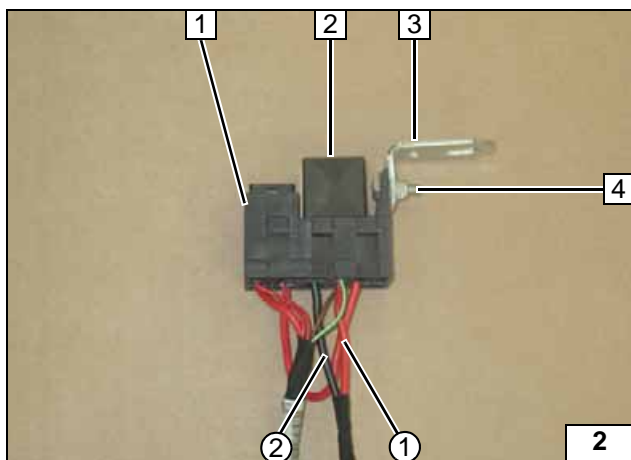


Preparing Electrical System

Wire sections retain their numbering throughout the entire document.



Premounting fuse holder of passenger compartment

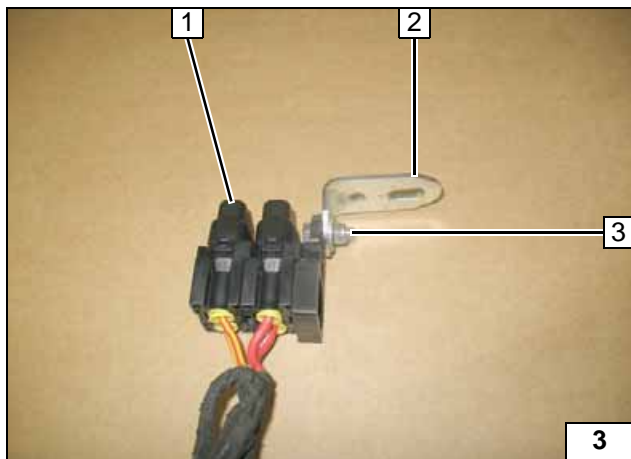


Connect wires in accordance with wiring diagram. Insert 25A fuse F4.



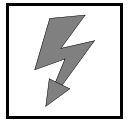
- 1 Fuse holder of passenger compartment
- 2 K1 relay
- 3 Angle bracket
- 4 M5x16 bolt, large diameter washer [2x], nut

Premounting fuse holder of passenger compartment



- 1 Engine compartment fuse holder
- 2 Angle bracket
- 3 M5x16 bolt, large diameter washer [2x], nut

Premounting fuse holder of engine compartment



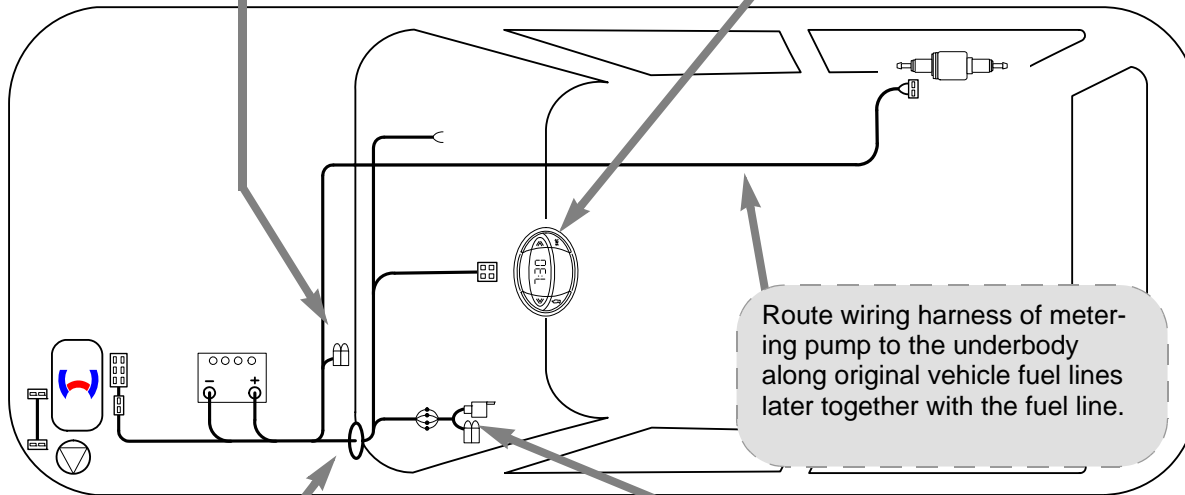
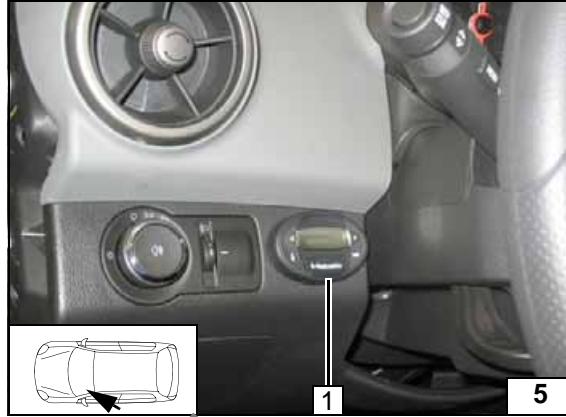
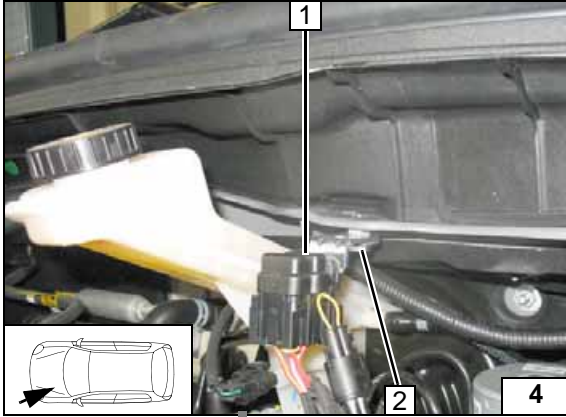
Electrical System

Fuse holder of engine compartment

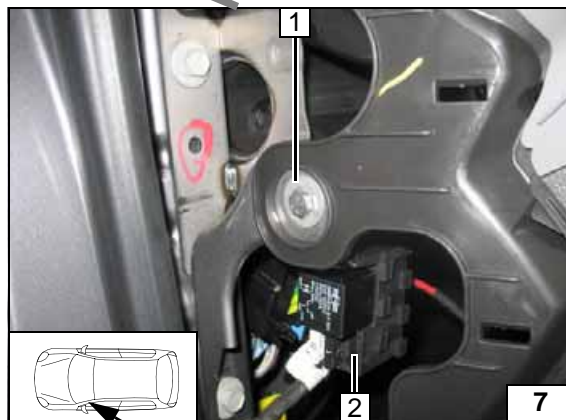
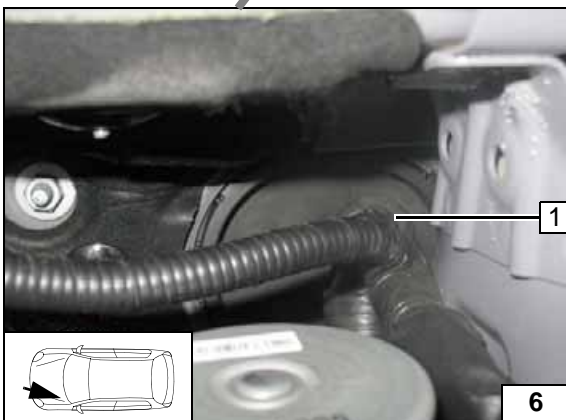
- 1 Engine compartment fuse holder
- 2 M8x20 bolt, large diameter washer, existing thread

Digital timer

- 1 Digital timer



Wiring harness routing diagram

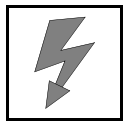


Wiring harness pass through

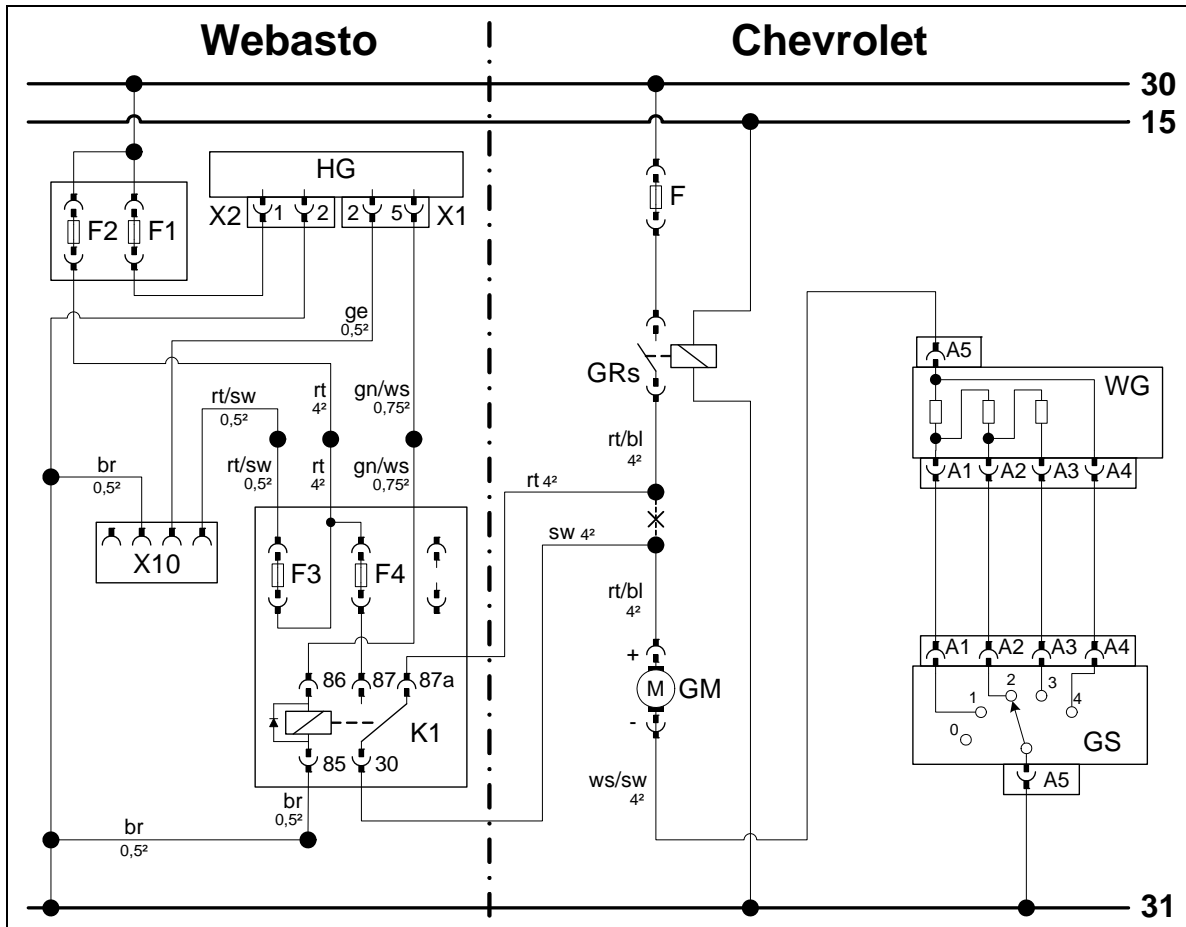
- 1 Protective rubber plug

Fuse holder of passenger compartment

- 1 M6x20 bolt, large diameter washer, existing hole, flanged nut
- 2 Fuse holder of passenger compartment



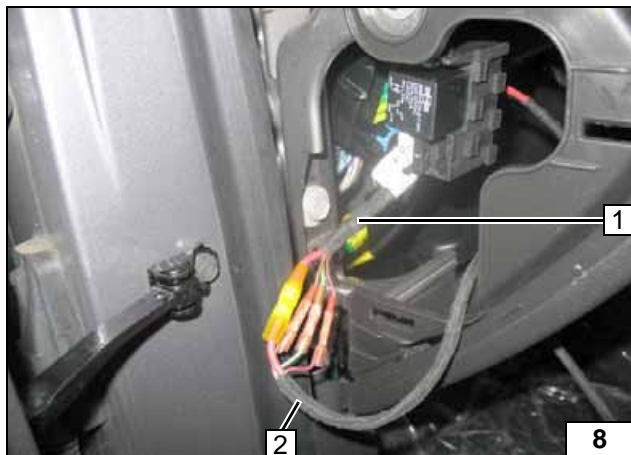
Fan Controller



Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-Evo	F	Fuse	rt	red
X1	6-pin heater connector	GRs	Fan relay	sw	black
X2	2-pin heater connector	WG	Resistor group	bl	blue
X10	4-pin connector of heater control	GM	Fan motor	gn	green
K1	Fan relay	GS	Fan switch	br	brown
F1	20A fuse			ws	white
F2	30A fuse				
F3	1A fuse				
F4	25A fuse				

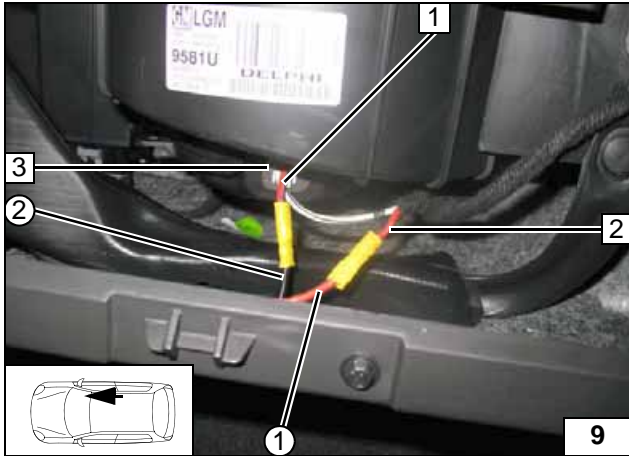
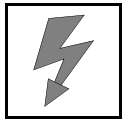
Legend



Connect wiring harness of passenger compartment fuse holder 1 with wiring harness of heater 2 according to the wiring diagram using same-colour wires.



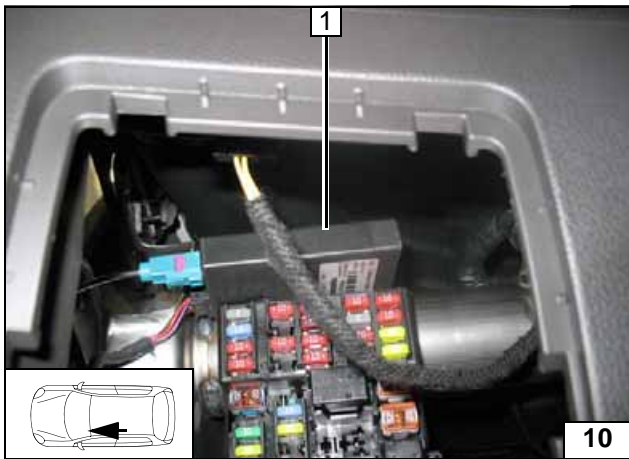
Connecting wiring harnesses



Connection to 2-pin connector **3** from the fan motor.
Produce connections as shown in wiring diagram.

- 1** Red/blue (rt/bl) wire of fan motor
- 2** Red/blue (rt/bl) wire of fan relay
- ① Red (rt) wire from K1/87a
- ② Black (sw) wire of K1/30

**Connec-
tion of fan
motor**

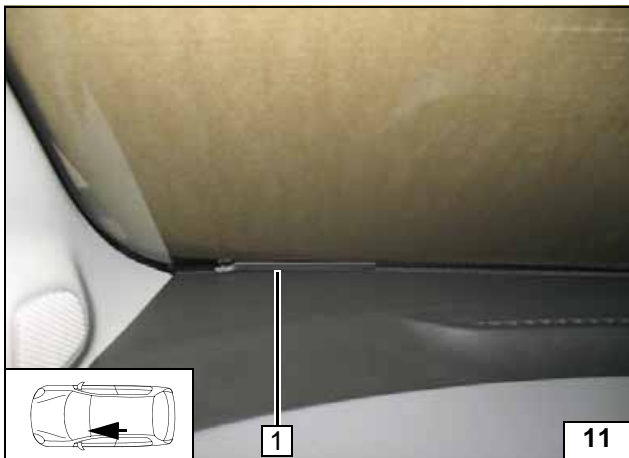


Remote Option (Telestart)

Fasten receiver **1** with adhesive tape.

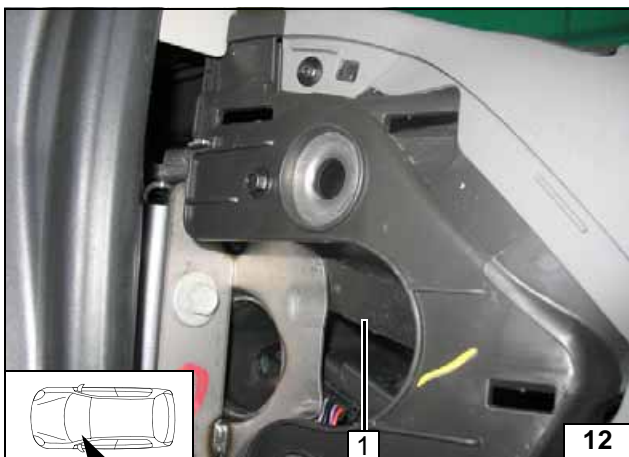


**Installing
receiver**



1 Antenna

**Installing
antenna**

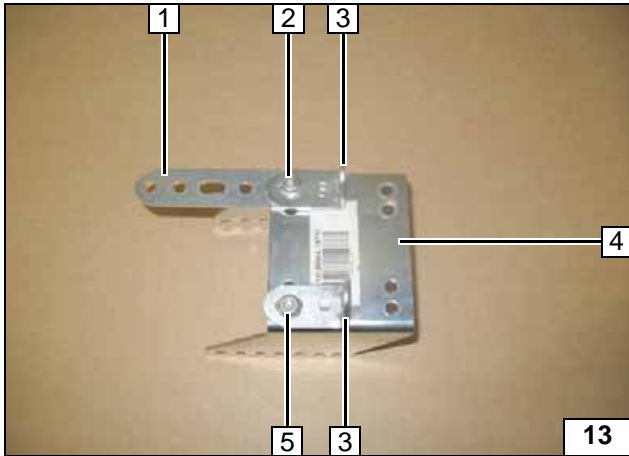


Temperature sensor T100 HTM

Fasten temperature sensor **1** with adhesive tape.



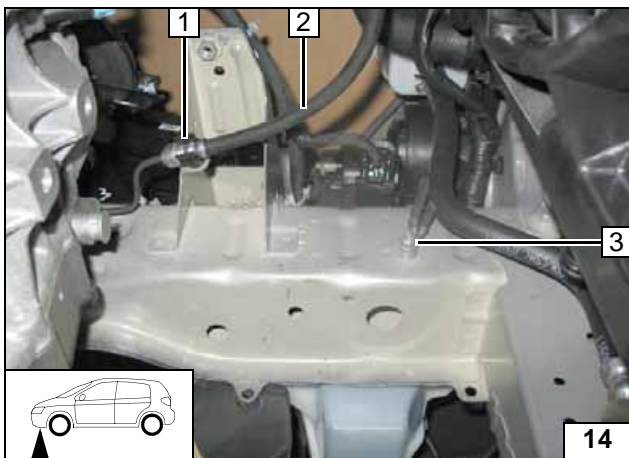
**Installing
tempera-
ture sensor**



Preparing Installation Location

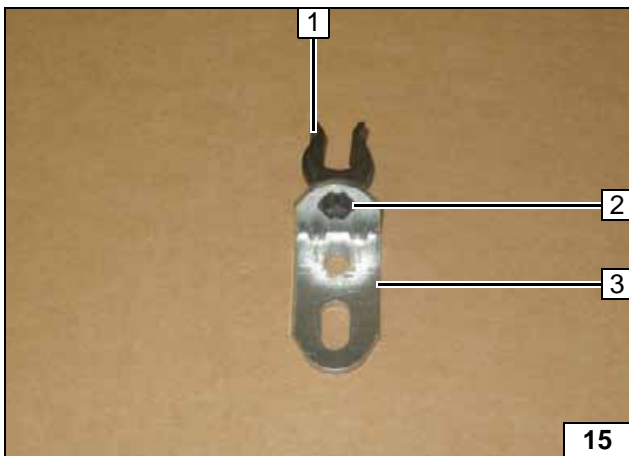
- 1 Perforated bracket
- 2 M6x16 bolt, flanged nut
- 3 Angle bracket [2x]
- 4 Bracket
- 5 M6x12 bolt, flanged nut

Premounting bracket



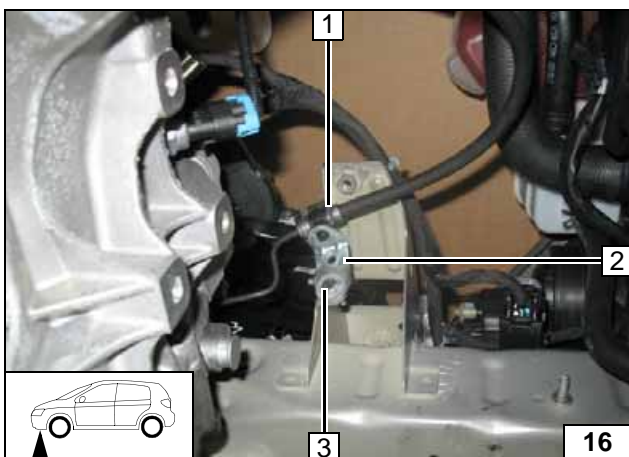
- 1 Dismount bracket of coupling line, will be needed again
- 2 Coupling line
- 3 Remove original vehicle nut and earth wires, nut will be needed again

Moving coupling line



- 1 Bracket of coupling line
- 2 Drill out hole to 8 mm dia.
- 3 Angle bracket

Moving coupling line

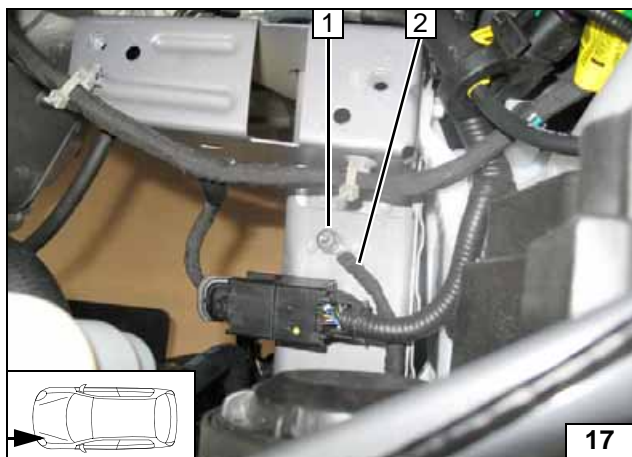
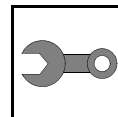


Insert coupling line into bracket.

- 2 Premounted bracket
- 3 M6x20 bolt, large diameter washer, existing hole, flanged nut

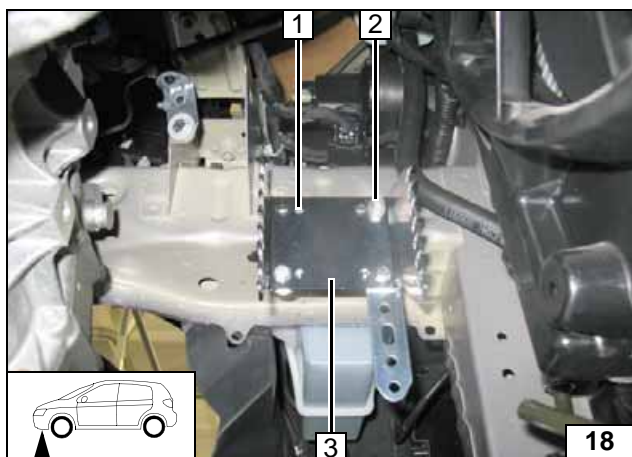


Moving coupling line



- 1 Original vehicle earth support point
- 2 Earth wires

Mounting earth wires

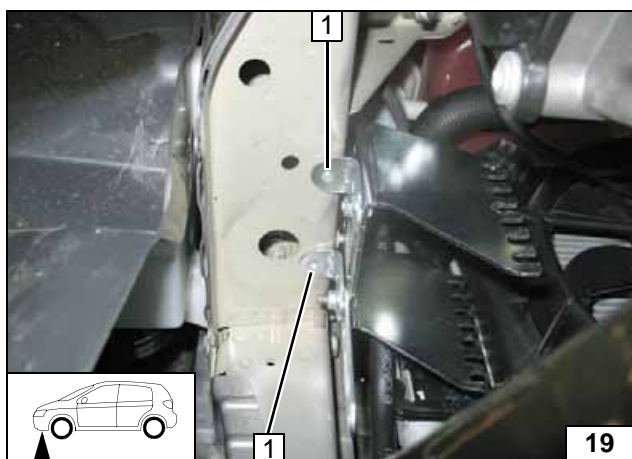


Attach bracket 3 to original vehicle bolt, align it and fasten it using original vehicle nut 2.



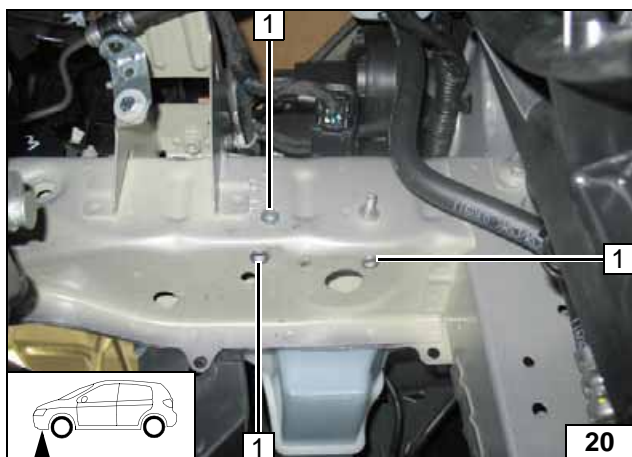
- 1 Copy hole pattern

Copying hole pattern



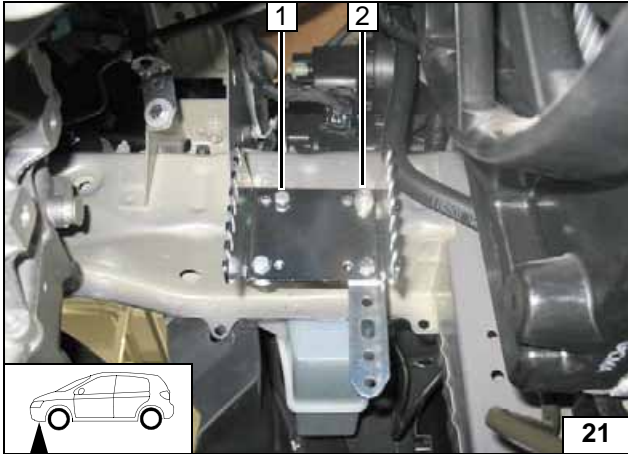
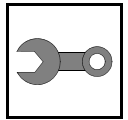
- 1 Copy hole pattern [2x]

Copying hole pattern



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

Installing rivet nuts

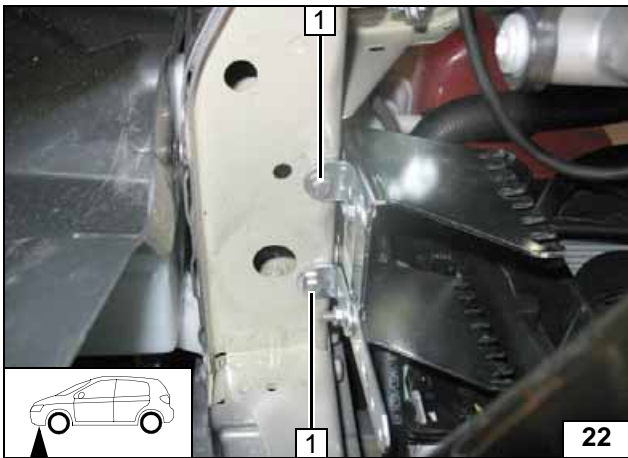


Align bracket and tighten it using original vehicle nut **2**. Install two 22 mm dia. large diameter washers between bracket and vehicle at position **1**.



- 1 M6x20 bolt, spring lockwasher

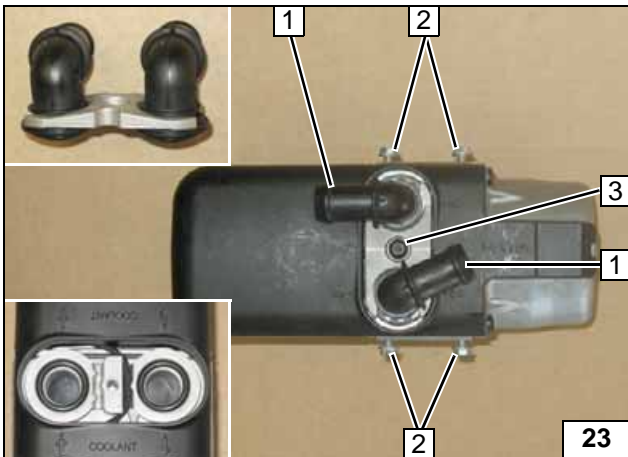
Installing bracket



- 1 M6x20 bolt, spring lockwasher [2x each]



Installing bracket



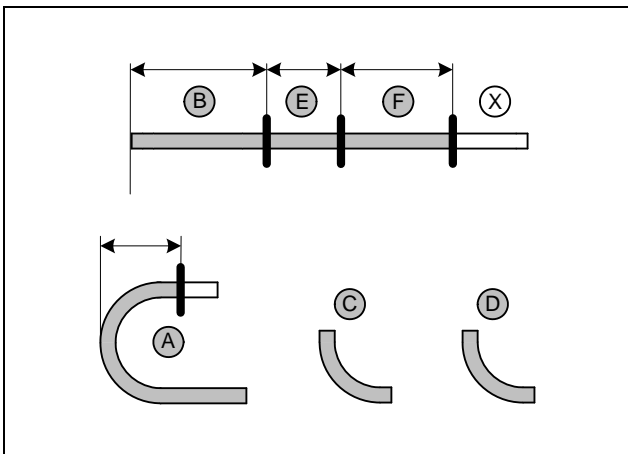
Preparing Heater

Precut thread with 5x13 self-tapping bolts **2** [4x] and mount loosely (screw in a maximum of 3 thread pitches).



- 1 Water connection piece, sealing ring [2x each]
- 3 5x15 self-tapping bolt, retaining plate of water connection piece

Installing water connection pieces

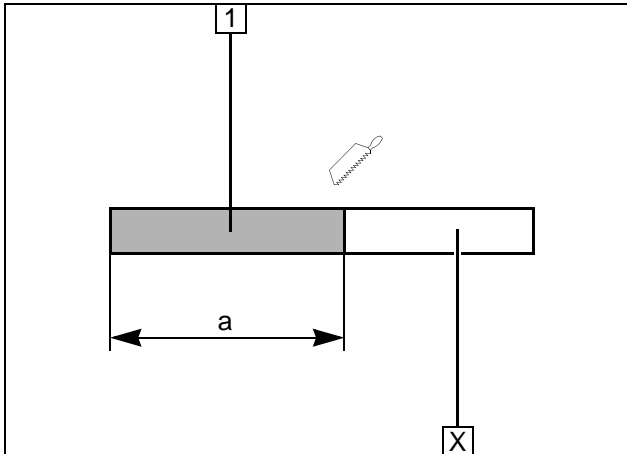


Discard section X.
Hose **A** = 180°, 20mm dia. moulded hose **C** and **D** = 90°, 18mm dia. moulded hose



- A** = 50
- B** = 460
- E** = 110
- F** = 360

Cutting hoses to length

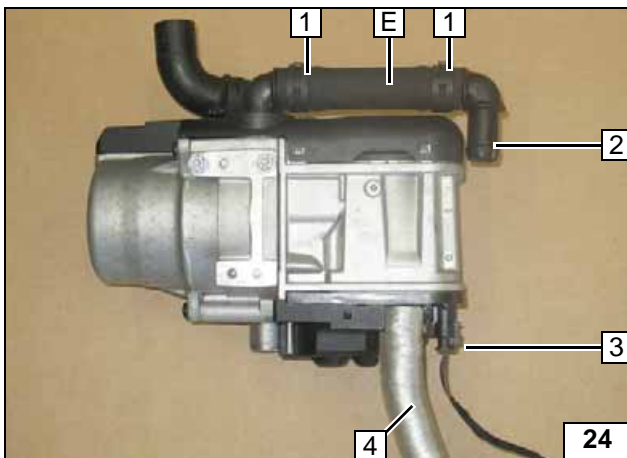


Discard section X.

- 1 Combustion air pipe
a = 250



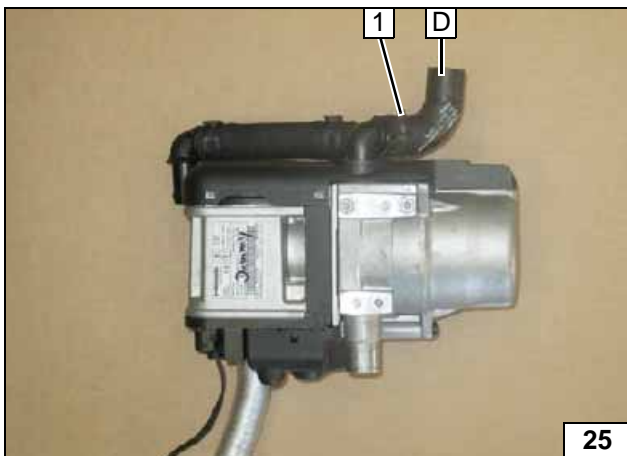
Cutting combustion air pipe to length



- 1 25 mm dia. spring clip [2x]
- 2 Connecting pipe 90° 18x18mm dia.
- 3 Mount wiring harness of circulating pump
- 4 Combustion air pipe

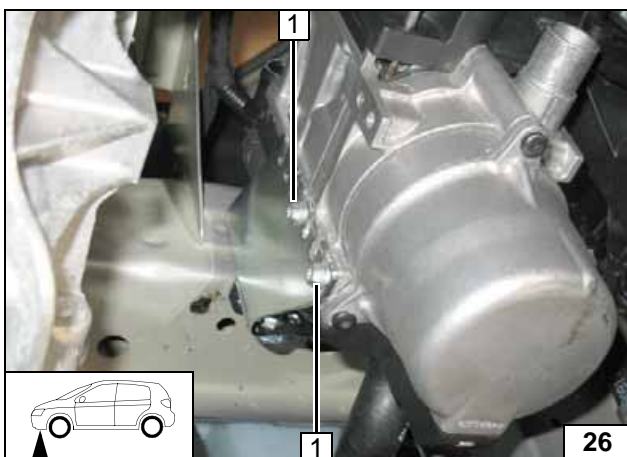


Premounting hoses



- 1 25 mm dia. spring clip

Premounting hoses



Installing Heater

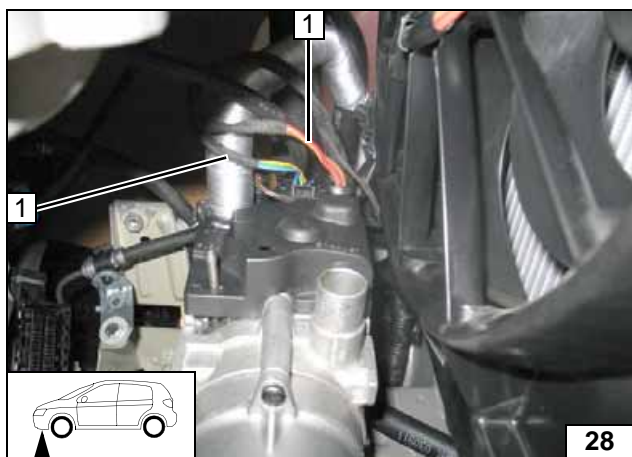
- 1 Tighten self-tapping bolt 5x13 [2x]

Installing heater



1 Tighten self-tapping bolt 5x13 [2x]

Installing heater



1 Mount wiring harness of heater [2x]

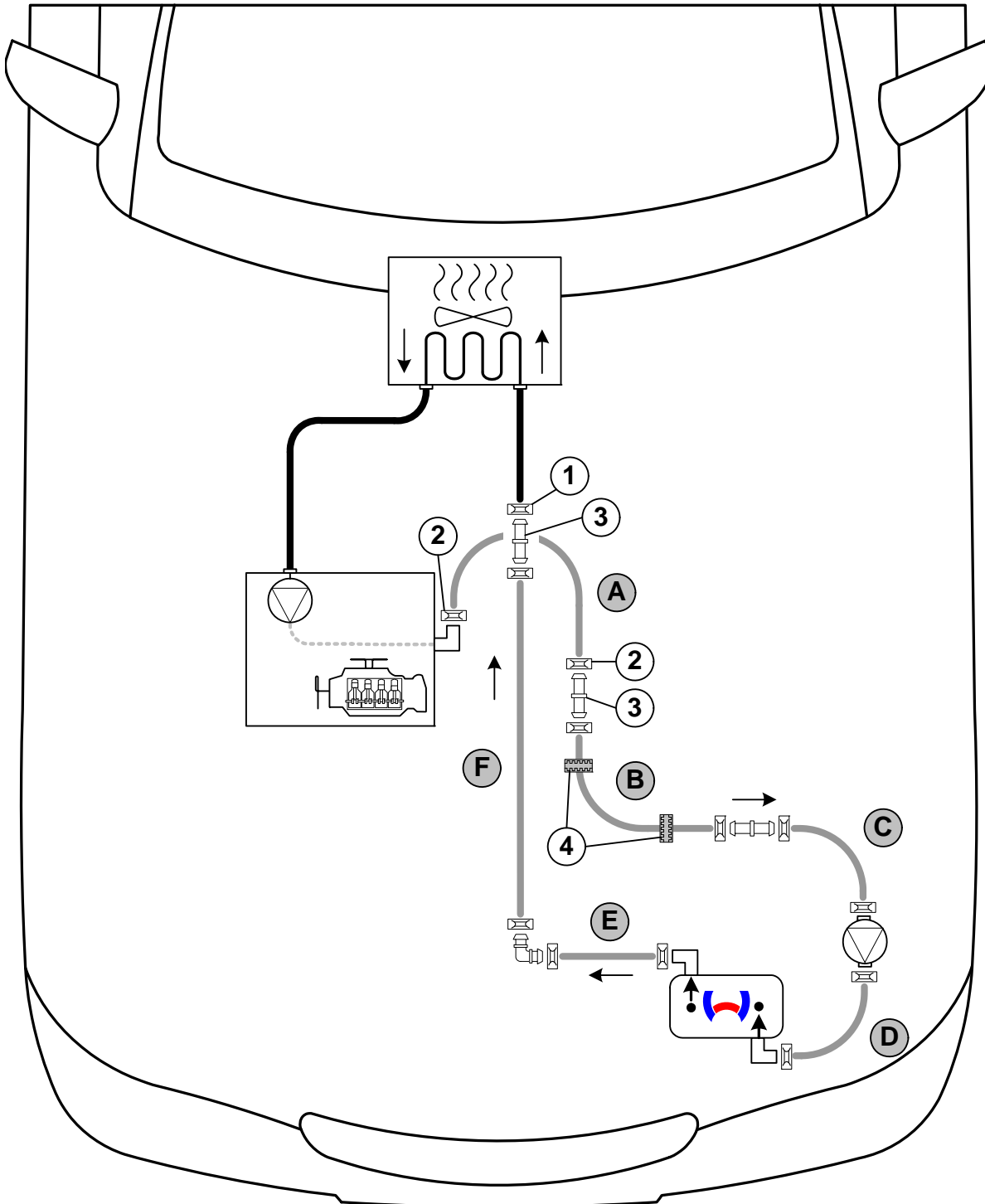
Installing wiring harness of heater










Coolant Circuit

WARNING!

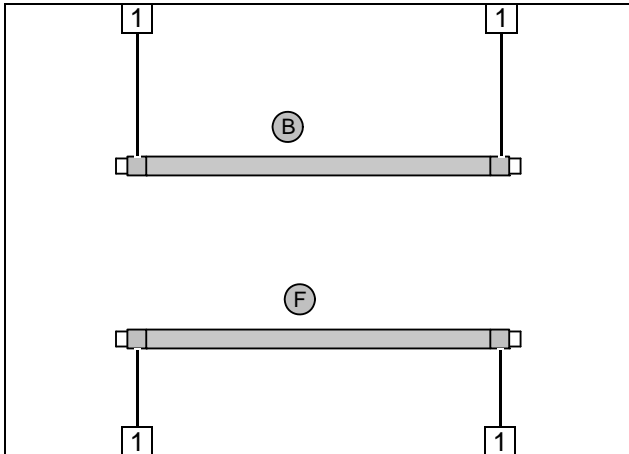
Any coolant running off should be collected in an appropriate container. Install coolant hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. When installing the hoses, the heater must be filled with coolant. The connection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



Hose routing diagram

All non-designated spring clips  = 25mm dia. **1** = Original vehicle spring clip .
2 = 27 mm dia. spring clip . All connecting pipes without a specific designation  and  = 18x18 mm dia. **3** = 18x20 mm dia. connecting pipe  **4** = black (sw) rubber isolator .

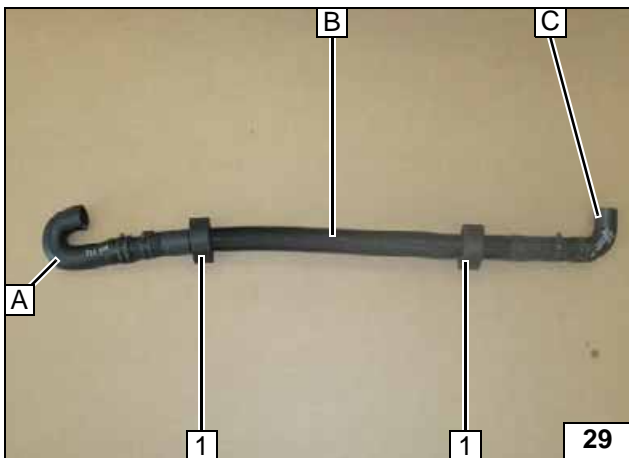




Push braided protection hoses onto hose **B** and **F** and cut to length.
Cut heat shrink plastic tubing to length.

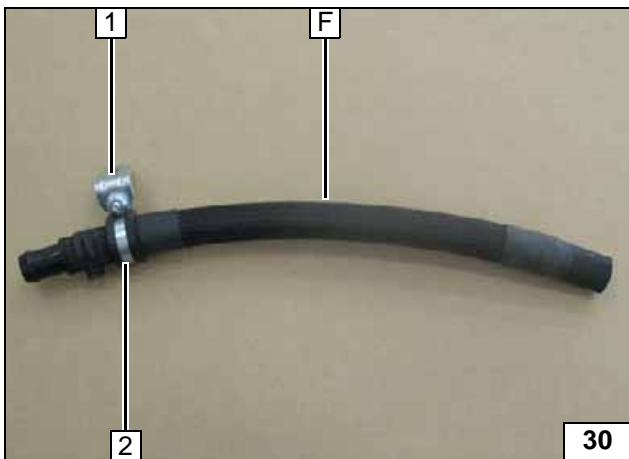
- 1 50 mm long heat shrink plastic tubing [4x]

Preparing hoses



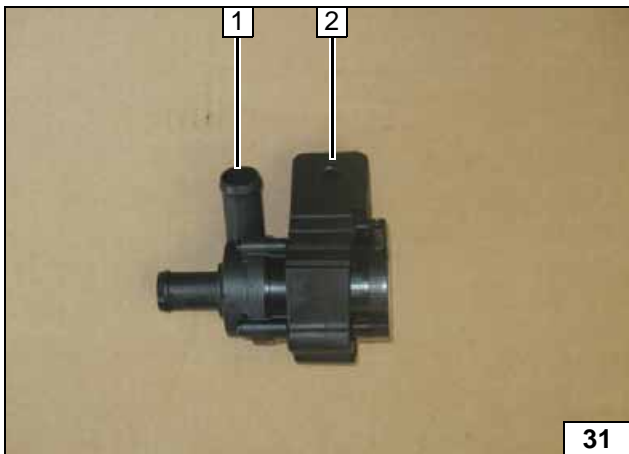
- 1 Black (sw) rubber isolator [2x]

Preparing hoses



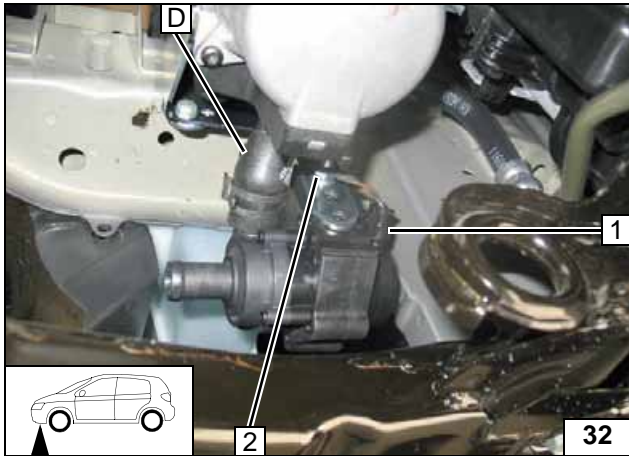
- 1 Angle bracket, M6x16 bolt, flanged nut
- 2 Rubber-coated pipe clamp

Preparing hose



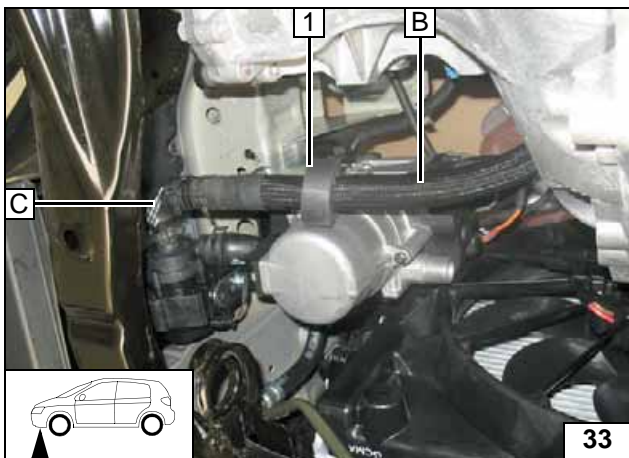
- 1 Circulating pump
- 2 Mounting of circulating pump

Premounting circulating pump



- 1 Mount wiring harness of circulating pump
- 2 M6x25 bolt, flanged nut

Installing circulating pump

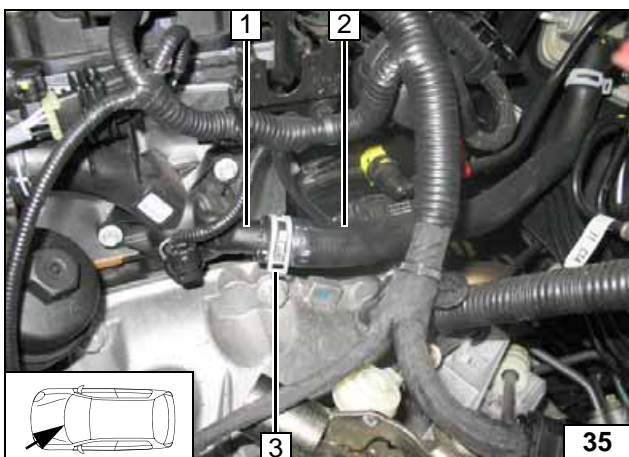


- 1 Position black (sw) rubber isolator

Conne-
ction of hose
C



Conne-
ction of hose
F

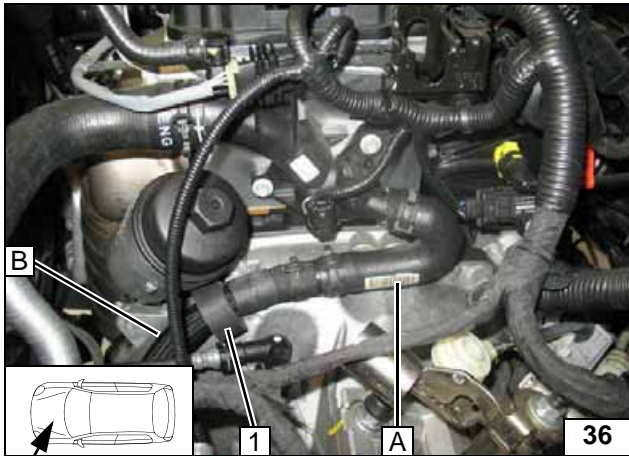


1.4 B

Pull hose of engine outlet / heat exchanger inlet 2 off connection piece of engine outlet 1. Spring clip 3 will be reinserted.

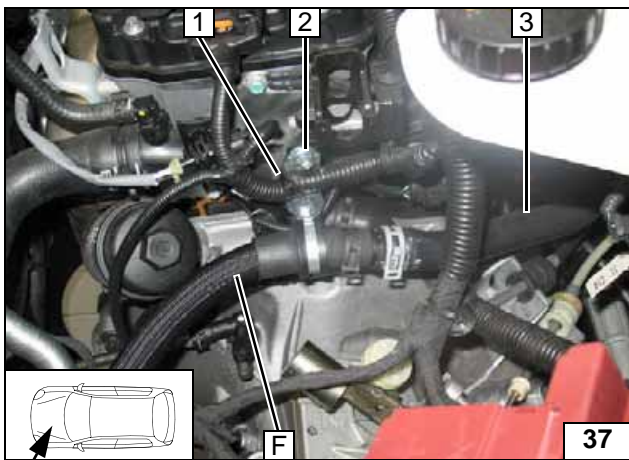


Cutting
point



1 Position black (sw) rubber isolator

Connect-
ing engine
outlet

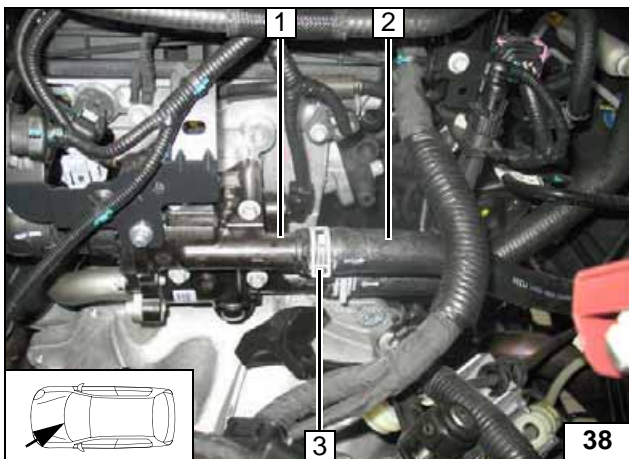


Ensure sufficient distance to neighbouring components. Remove and discard original vehicle clip with cable tie at position 2.



- 1 Fasten wiring harness with cable tie
- 2 M6x12 bolt, original vehicle hole, angle bracket, large diameter washer, flanged nut
- 3 Hose on heat exchanger inlet

Conne-
ction of heat
exchanger
inlet

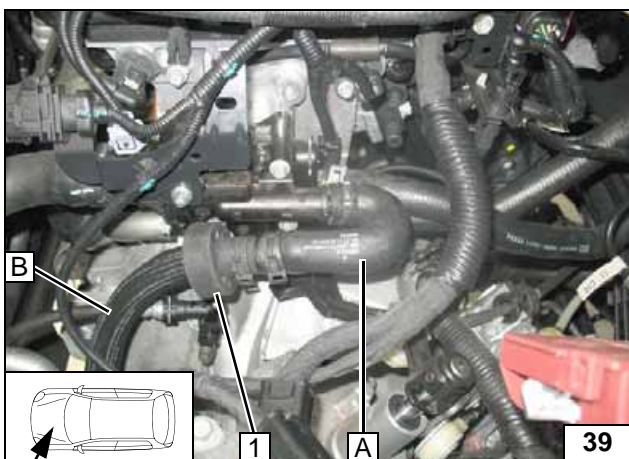


1.6 B

Pull hose of engine outlet / heat exchanger inlet 2 off connection piece of engine outlet 1. Spring clip 3 will be reinserted.

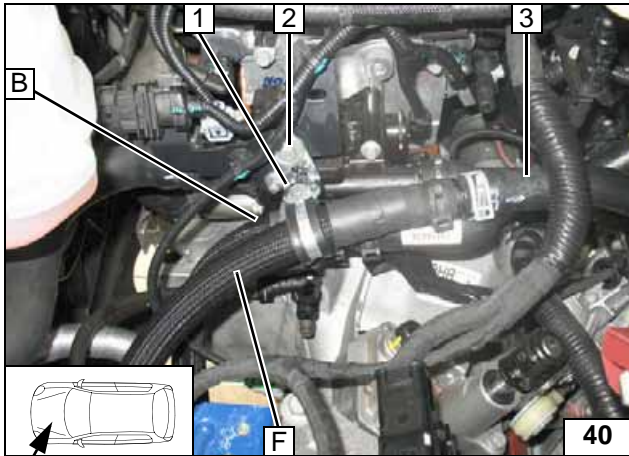


Cutting
point



1 Position black (sw) rubber isolator

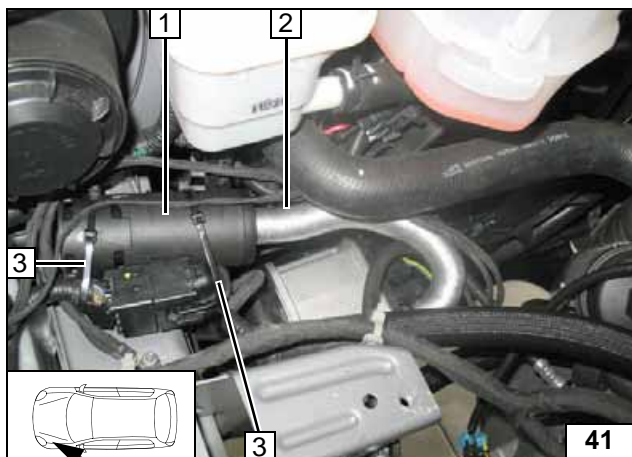
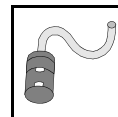
Connect-
ing engine
outlet



Ensure sufficient distance to neighbouring components. Attach black (sw) rubber isolator from hose **B** to angle bracket using cable tie **1**.

- 2** M6x12 bolt, large diameter washer, original vehicle hole, angle bracket, flanged nut
- 3** Hose on heat exchanger inlet

Connection of heat exchanger inlet



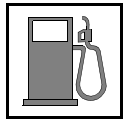
Combustion Air

- 1 Silencer
- 2 Combustion air pipe
- 3 Cable tie [2x each]



**Installing
silencer**

Chevrolet Aveo



Fuel

CAUTION!

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

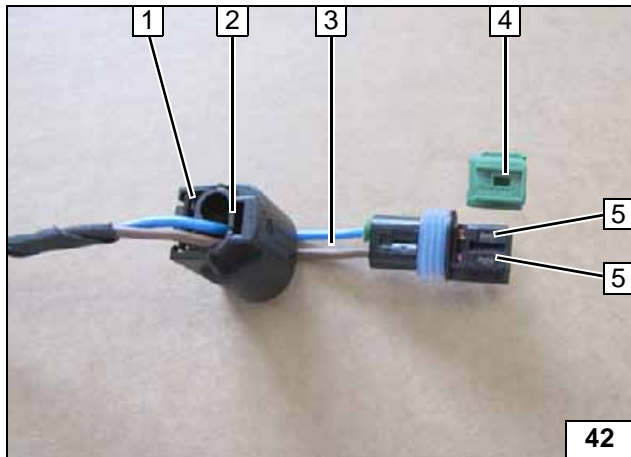
Catch any fuel running off in an appropriate container.

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.

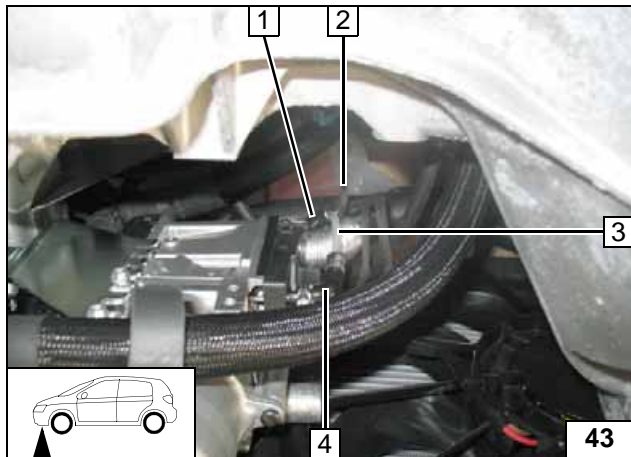


Complete connector of metering pump again after routing. Pin assignment is not relevant.

- 1 Connector housing
- 2 Lock
- 3 Blue (bl) and brown (br) wires
- 4 Coding
- 5 Timer lock



Dismantling connector

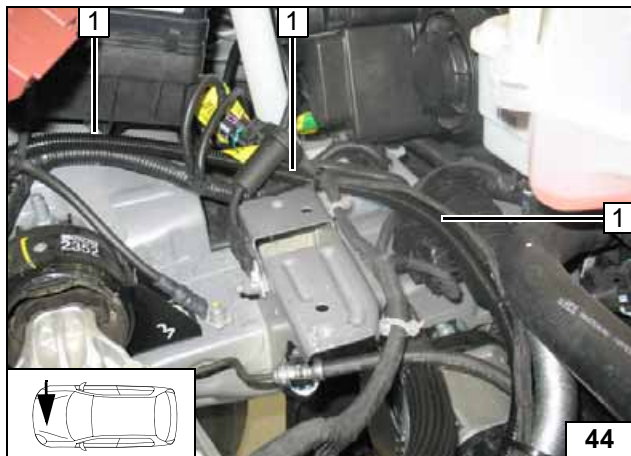


Pull wiring harness of metering pump 2 and fuel line 3 into corrugated tube 1.

- 4 90° moulded hose, 10 mm dia. clamp [2x]



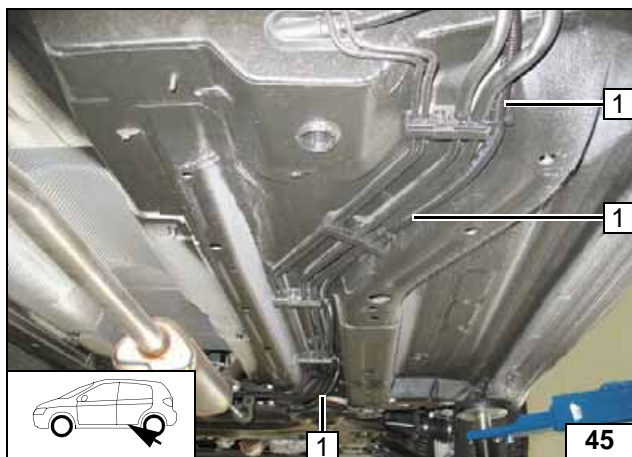
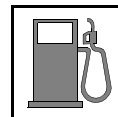
Connecting heater



Route wiring harness of metering pump and fuel line in corrugated tube 1 to the firewall, the right side of the vehicle and to the underbody along original vehicle fuel lines.



Installing lines



1 Wiring harness of metering pump and fuel line in corrugated tube

Installing lines

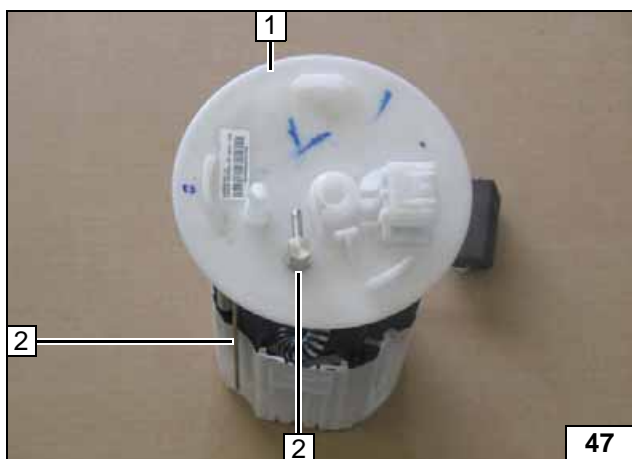


Remove the fuel tank in accordance with the manufacturer's instructions. Remove and dismount fuel-tank sending unit 1 according to manufacturer's instructions.



2 6mm dia. hole in the centre of the grid

Fuel extraction

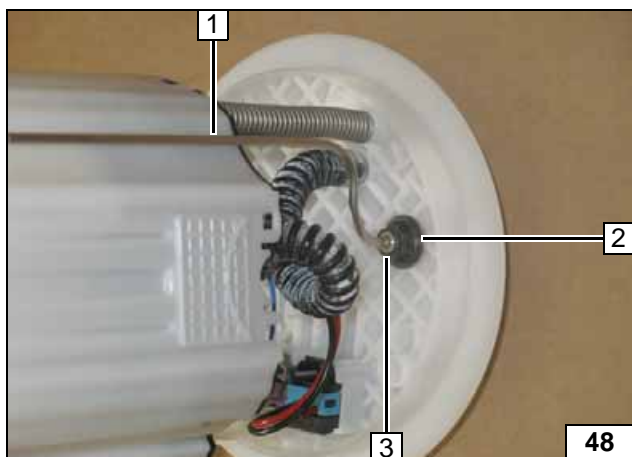


Shape fuel standpipe 2 according to template, and cut to length.



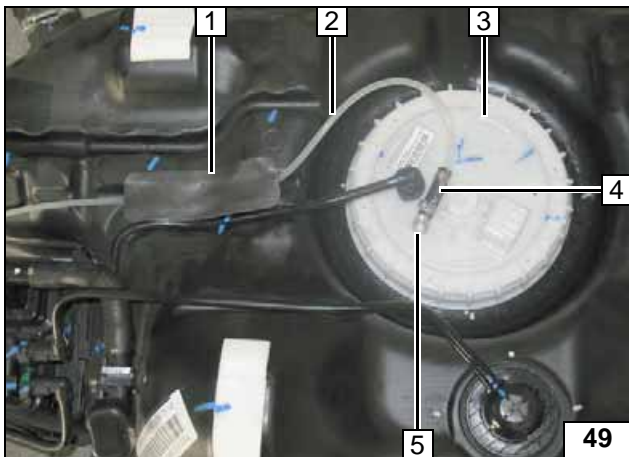
1 Fuel-tank sending unit

Installing fuel standpipe



1 Fuel standpipe
2 18mm dia. large diameter washer
3 Self-locking flanged nut

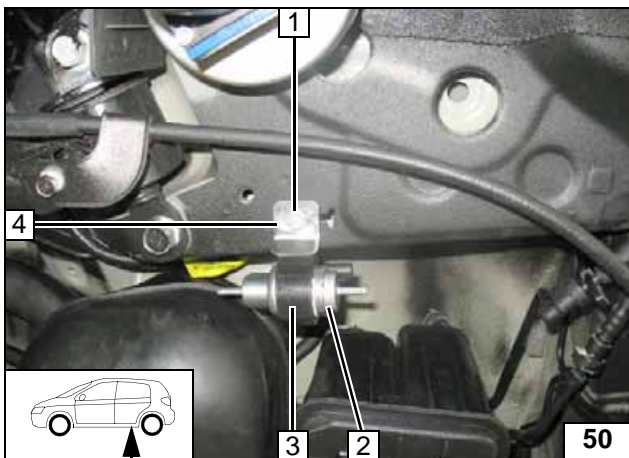
Fastening fuel standpipe



Install fuel-tank sending unit **3** into fuel tank in accordance with manufacturer's instructions, then install the fuel tank in accordance with manufacturer's instructions.

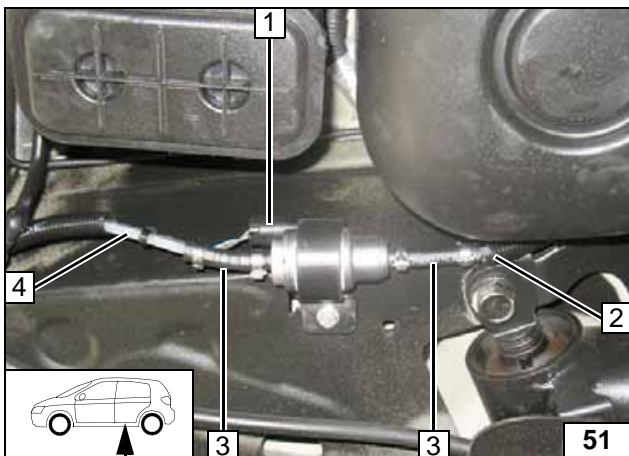
- 1 Rub protection
- 2 Fuel line
- 4 Hose section, 10mm dia. clamp [2x]
- 5 Fuel standpipe

**Connect-
ing fuel line**



- 1 M6x25 bolt, hollow rivet, original vehicle threaded hole
- 2 Metering pump
- 3 Mounting of metering pump
- 4 Support bracket

**Installation
of meter-
ing pump**

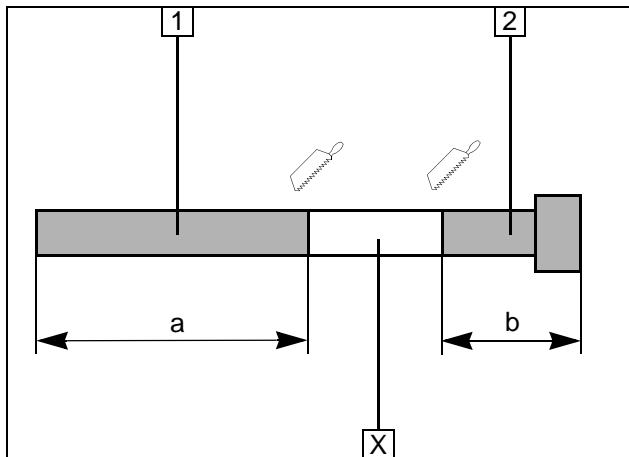
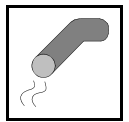


Check the position of the components; adjust if necessary. Check that they have freedom of movement.

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



**Connect-
ing meter-
ing pump**



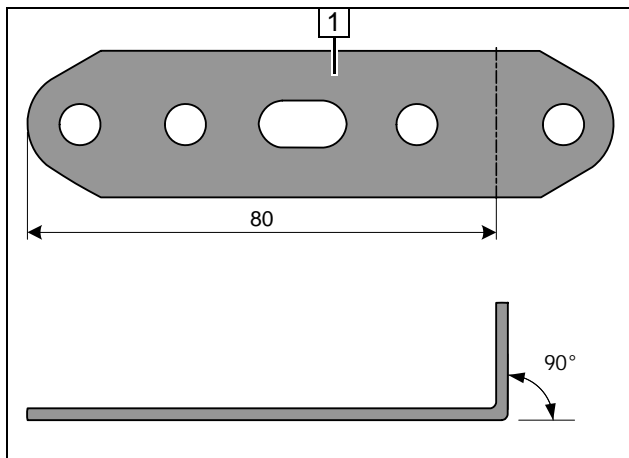
Exhaust Gas

Discard section X.

- 1 Combustion air pipe
a = 280
- 2 Exhaust end section
b = 90

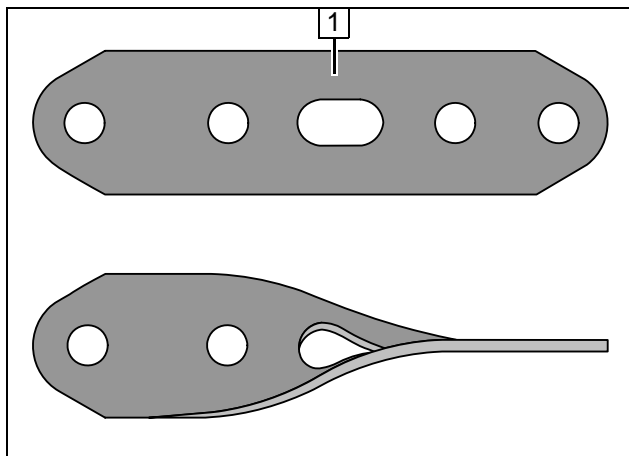


Preparing exhaust pipe



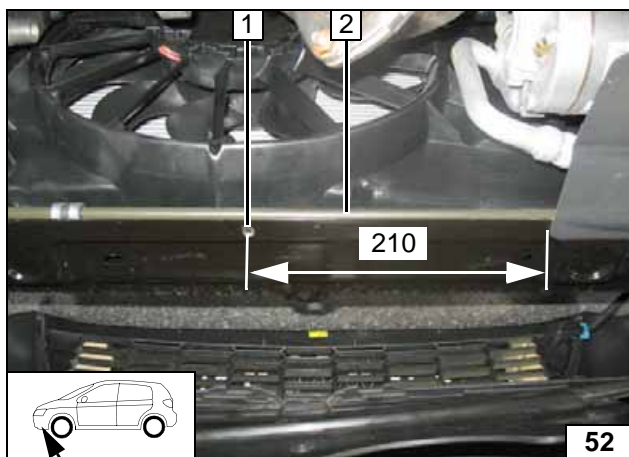
1 Perforated bracket

Preparing perforated bracket 1



1 Perforated bracket

Preparing perforated bracket 2

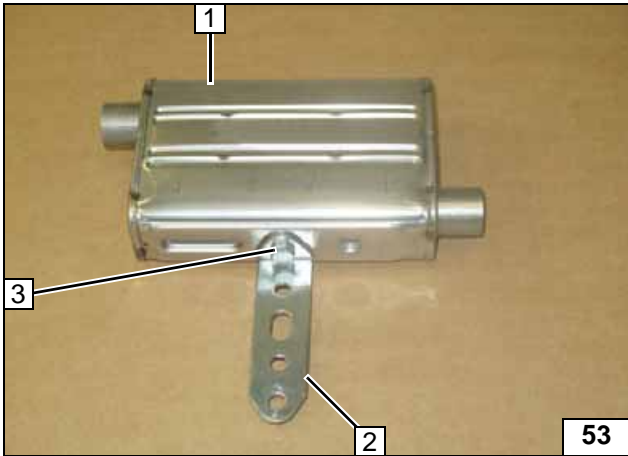
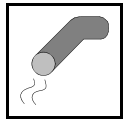


Protect hydraulic line 2 when drilling

- 1 7mm dia. hole in the centre of the bar

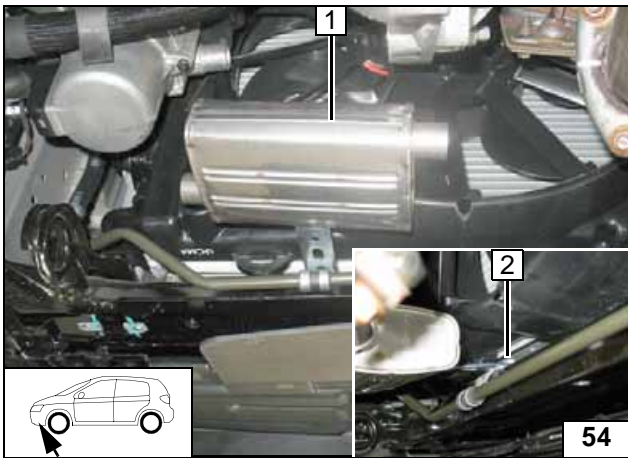


Preliminary Work



- 1 Exhaust silencer
- 2 Perforated bracket 1
- 3 M6x16 bolt, spring lockwasher

Premounting silencer

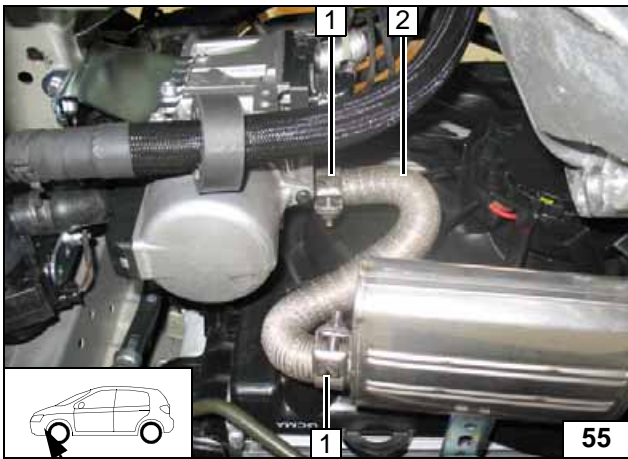


Ensure sufficient distance to neighbouring components.

- 1 Exhaust silencer
- 2 Original vehicle bolt

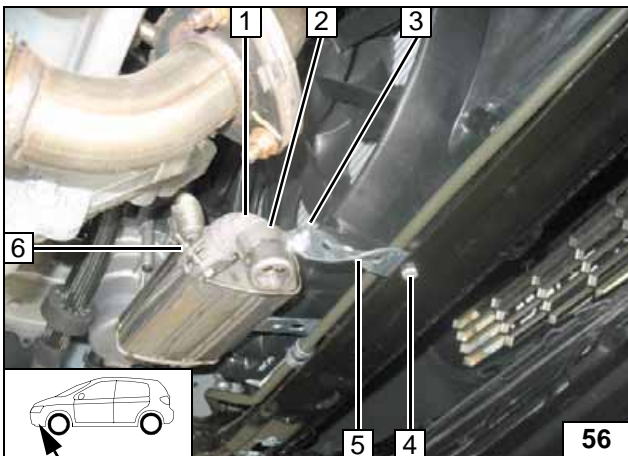


Premounting silencer



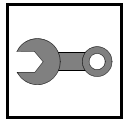
- 1 Hose clamp [2x]
- 2 Exhaust pipe

Installing exhaust pipe



- 1 Exhaust end section
- 2 P-clamp
- 3 M6x20 bolt, flanged nut
- 4 M6x12 bolt, flanged nut
- 5 Perforated bracket 2
- 6 Hose clamp

Mounting exhaust end section



Final Work

WARNING!

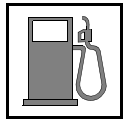
Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose lines.

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

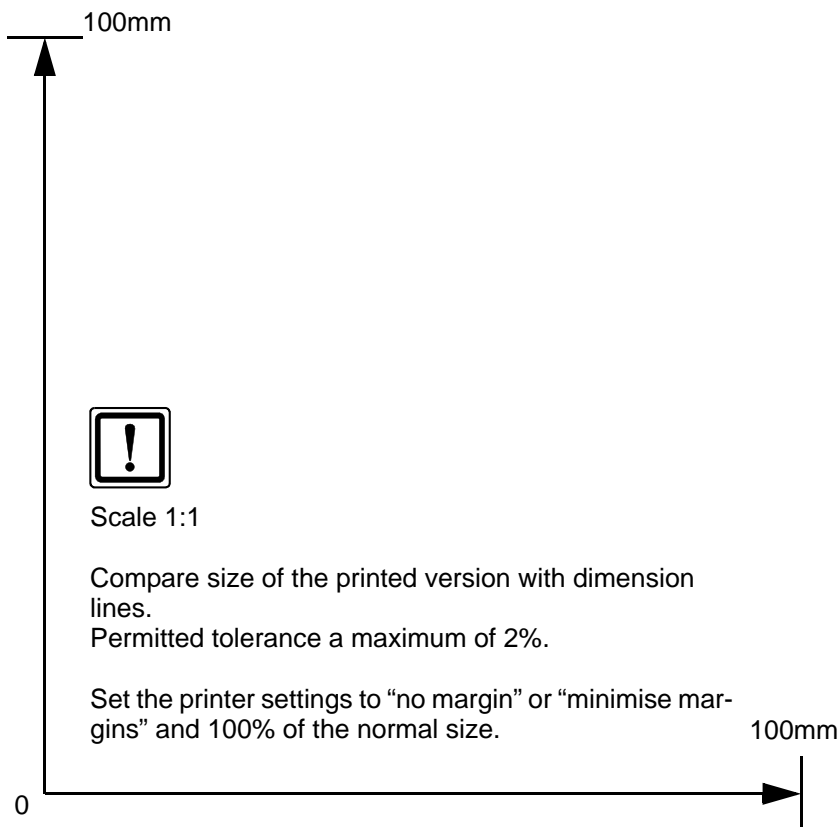
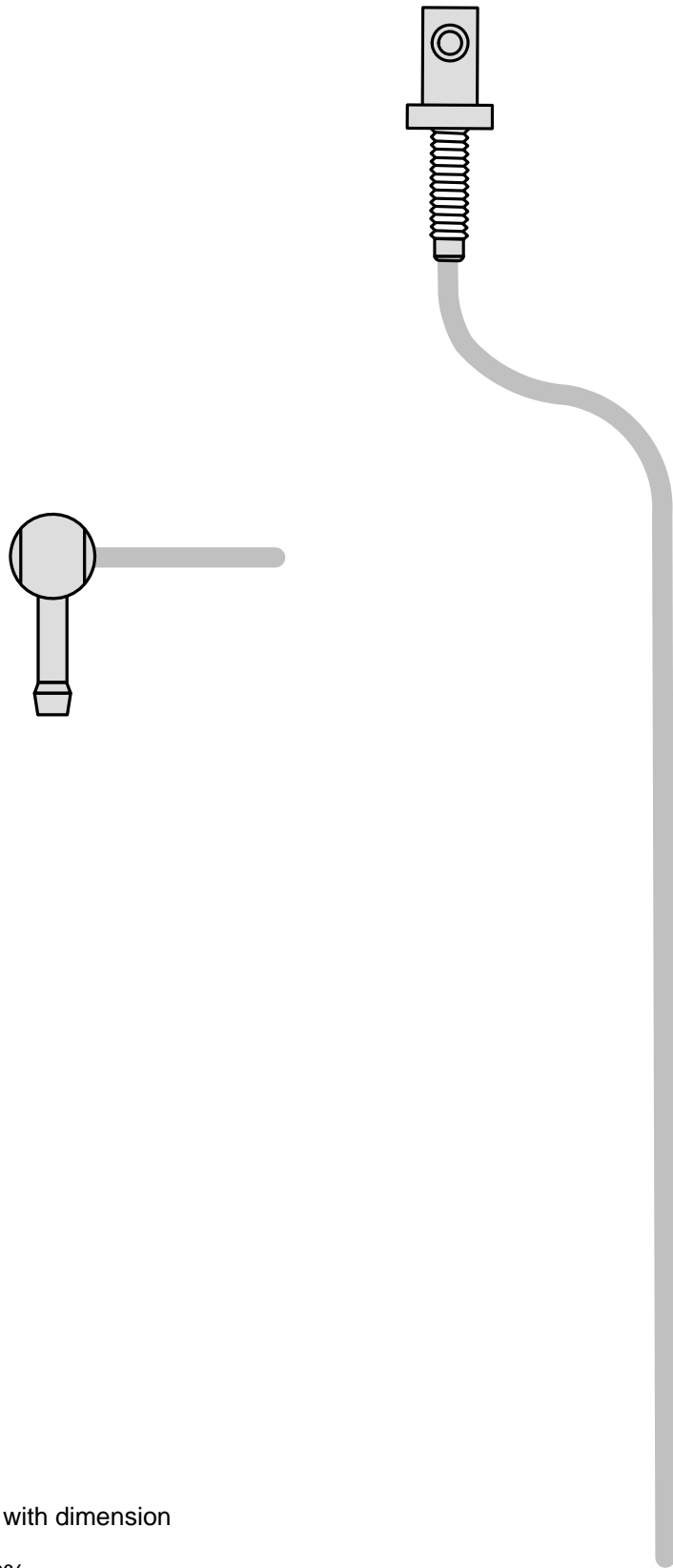


- **Connect the battery.**
- **Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.**
- **Adjust digital timer, teach Telestart transmitter.**
- **Make settings on A/C control panel according to the "Operating Instructions for End Customer".**
- **Place signboard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



Fuel Standpipe Template



Scale 1:1

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

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

Operating Instructions for End Customer

Please remove page 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 vehicle settings for the heating operation .

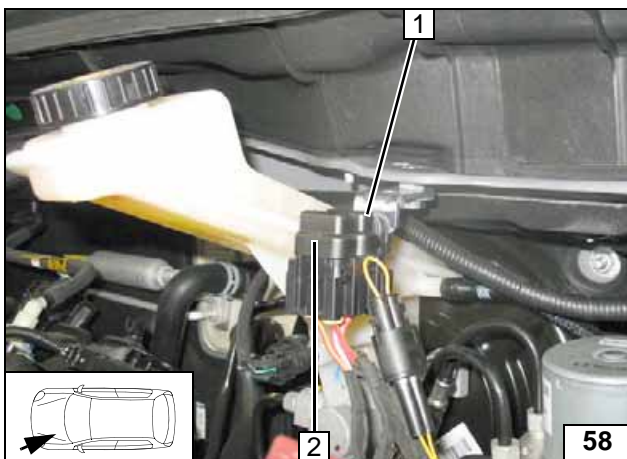
Instructions for the deactivation can be taken from the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:

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



A/C control panel



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

Fuses of engine compartment



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

Fuses of passenger compartment

