Water Heater

***Thermo Top Evo* Parking Heater** E1 00 0258

Installation Documentation
Chevrolet Trax

Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Chevrolet	Trax	KL1B	e4 * 2007 / 46 * 0696 * ...

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm³	Engine code
1.4 B	Petrol	6-gear SG	103	1364	A14NET (LUJ)

SG = Manual Transmission

Starting with model year 2013
Left-hand drive vehicle

Verified equipment variants:
Manual air-conditioning
Front fog lights
Daytime running lights
Start-Stop
2 WD / 4 WD

Not verified:
Automatic air-conditioning
Passenger compartment monitoring

Total installation time: approx. 9 hours

Chevrolet Trax

Table of Contents

Necessary Components

- Basic delivery scope for *Thermo Top Evo* based on price list
- Installation kit for Chevrolet Trax 2013 Petrol: **1321400A**
- 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 in consultation with end customer

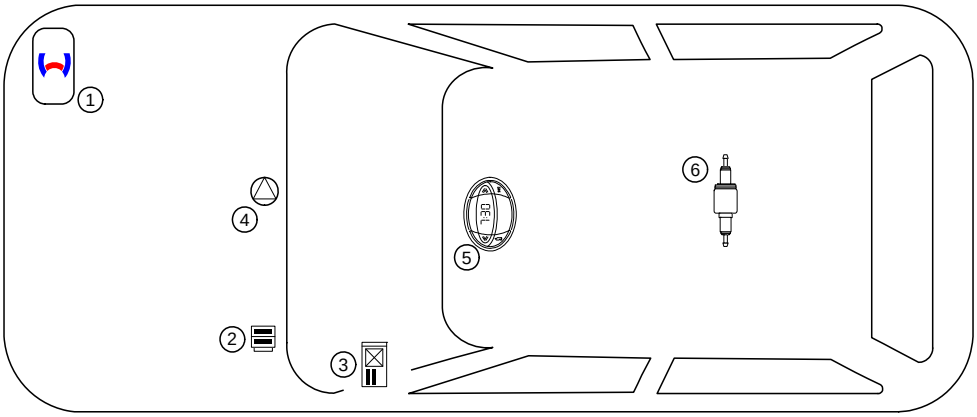
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about ¼ full!
- The installation location of the push button in the case of Telestart or Thermo Call should be confirmed with the end customer.
- Depending on the available space and manufacturer's instructions, we recommend the use of a vehicle battery with more electrical capacity.

Installation Overview

Legend:

1. Heater
2. Fuse holder of engine compartment
3. Relay and 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 wire ends and tie back. Connectors on electronic components have to audibly click into place 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 a PWM Gateway, 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 04 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 Trax

Notes on Validity

This installation documentation applies to the Chevrolet Trax Petrol vehicles - see page 1 for validity - starting with model year 2013 and later, if technical changes to the vehicle do not influence the installation, excluding any liability claims. 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

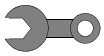
Dimensions
- All dimensions are in mm.

Tightening torque values
- Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm.
- Tightening torque value 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.

Mechanical system



Electrical system

Coolant circuit

Combustion air

Fuel

Exhaust gas

Software

Special features are highlighted using the following symbols:

Specific risk of injury or fatal accidents

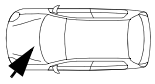
Specific risk of damage to components

Specific risk of fire or explosion.

Reference to general installation instructions of 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 Trax

Preliminary Work

Vehicle

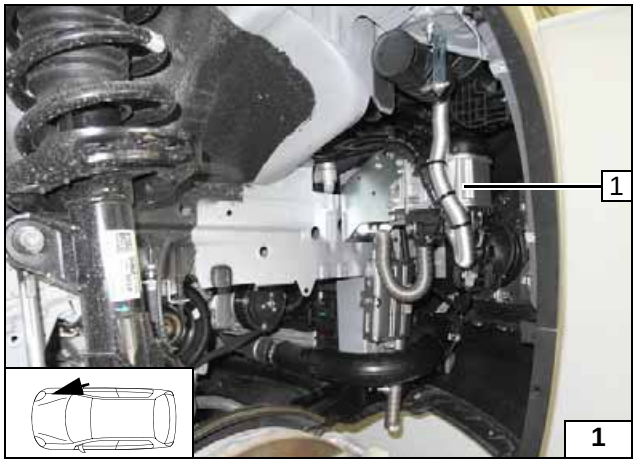
- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and remove the battery.
- Disconnect the air filter housing together with the plenum.
- Detach the coolant expansion tank.
- Remove the right front wheel.
- Remove the front wheel well trim on the right hand side.
- Remove the lower instrument panel trim on the driver's side.
- Remove the lateral instrument panel trim on the driver's side.

The following work should only be performed during the corresponding installation sequence:

- Remove the exhaust system from the flexible tube in accordance with the manufacturer's instructions.
- Detach the cardan shaft from the transfer case (only for 4 WD).
- Remove the fuel-tank in accordance with the manufacturer's instructions.
- Remove the fuel-tank sending unit on the right and on the left (for 4 WD), only on the left (for 2 WD) in accordance with the manufacturer's instructions.

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.



Heater Installation Location

1 Heater

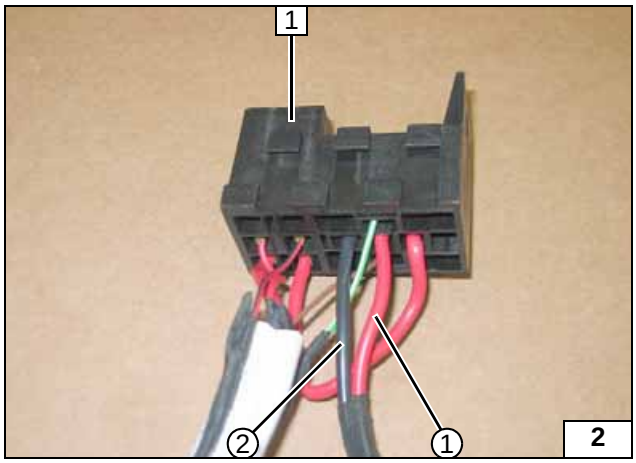
Installation location

Preparing Electrical System

Wire sections retain their numbering throughout the entire document.

1 Relay and fuse holder of passenger compartment
① Red (rt) wire from K1/87a
② Black (sw) wire of K1/30

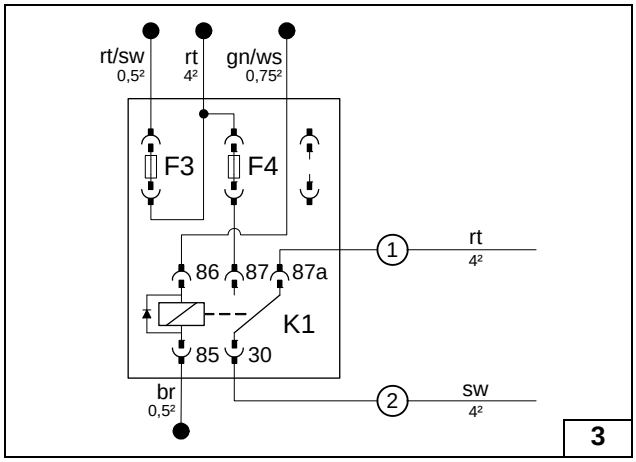
Preparing relay and fuse holder of passenger compartment



2

Connect wires according to the wiring diagram. K1 relay and 25A fuse F4 will only be inserted after installing the relay and fuse holder.

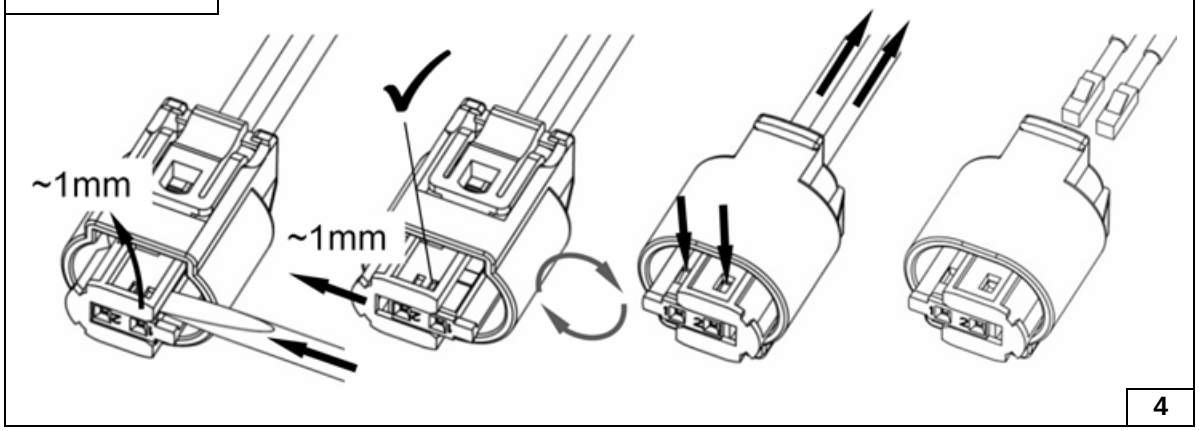
Preparing relay and fuse holder of passenger compartment



3

Connector X7

Dismantling connector of metering pump

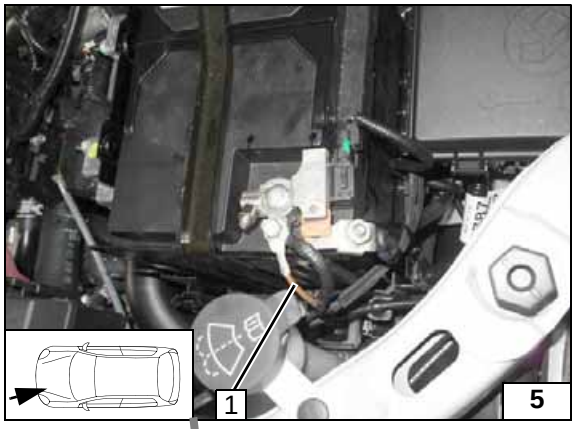


4

Electrical System

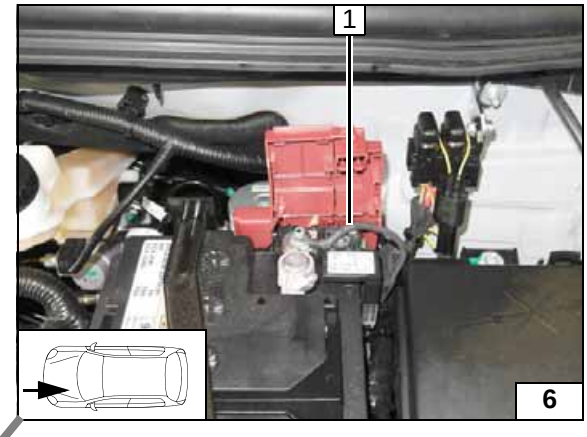
Earth wire

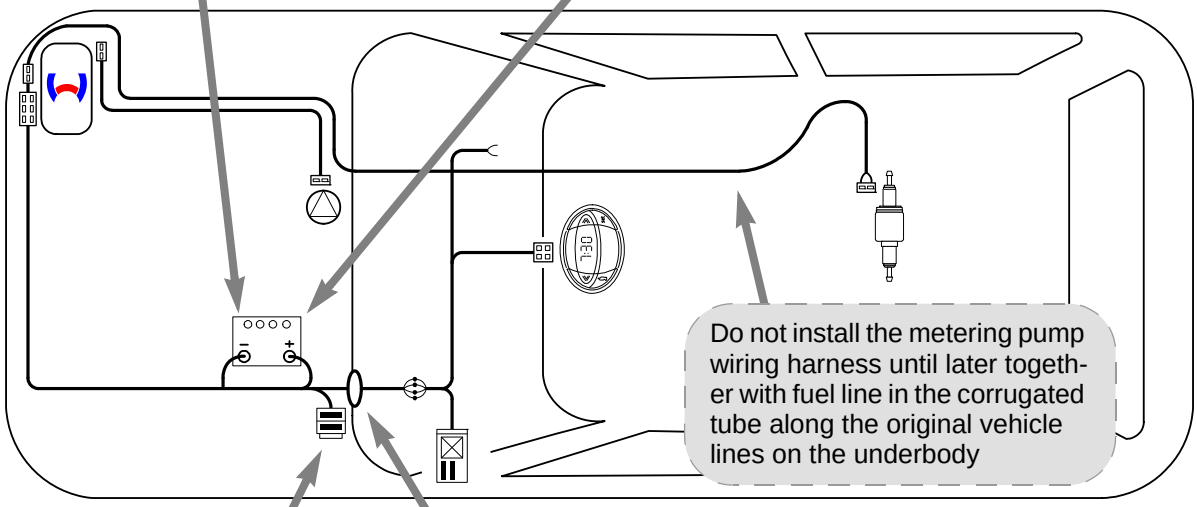
1 Earth wire on negative terminal of battery



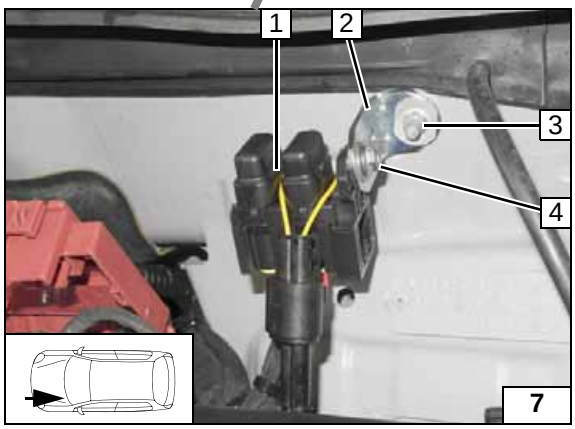
Positive wire

1 Positive wire on positive terminal of battery



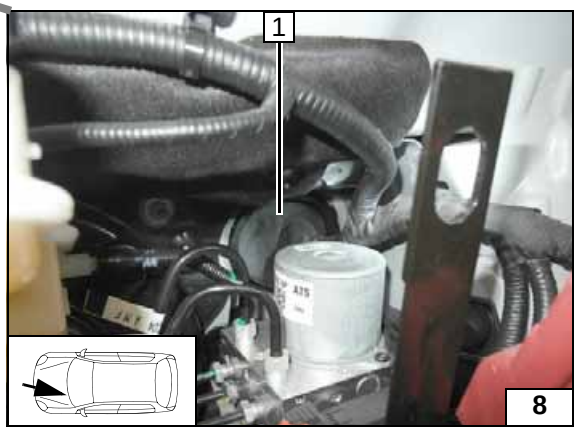


Wiring harness routing diagram



Fuse holder of engine compartment

1 Fuses F1-2
2 Angle bracket
3 Original vehicle stud bolt, plate nut
4 M5x16 bolt, large diameter washer [2x], retaining plate of fuse holder, nut

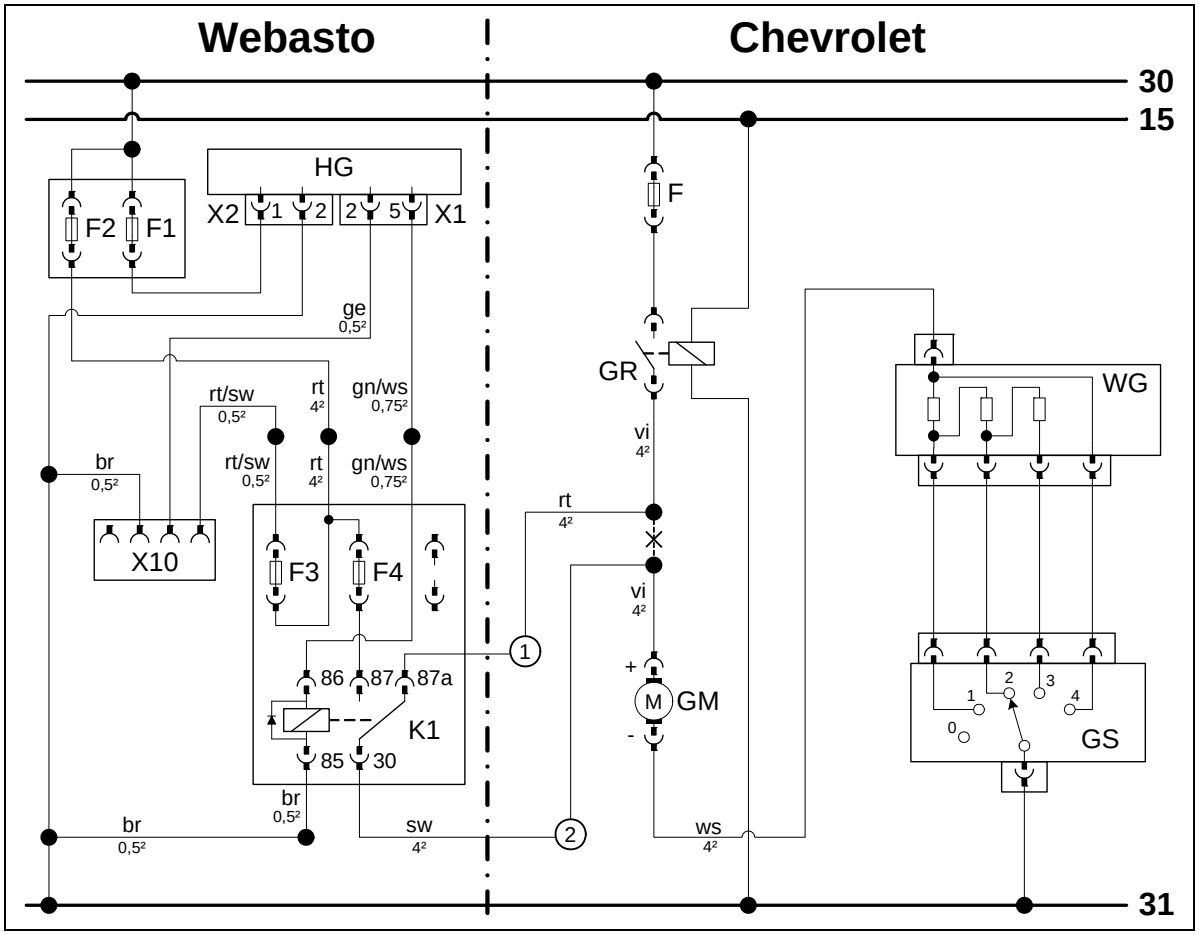


Wiring harness pass through

1 Protective rubber plug

Fan Controller

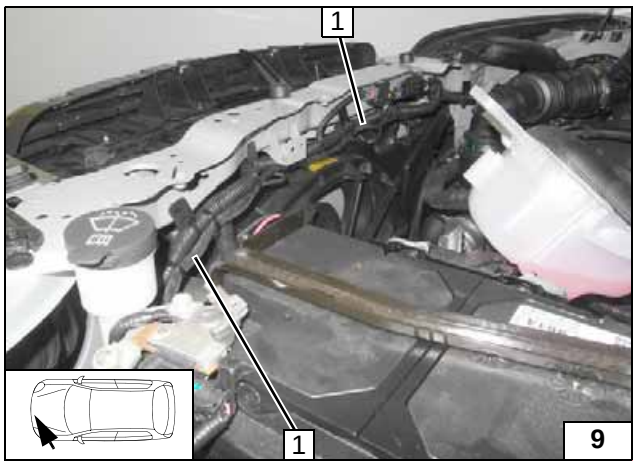
Wiring diagram



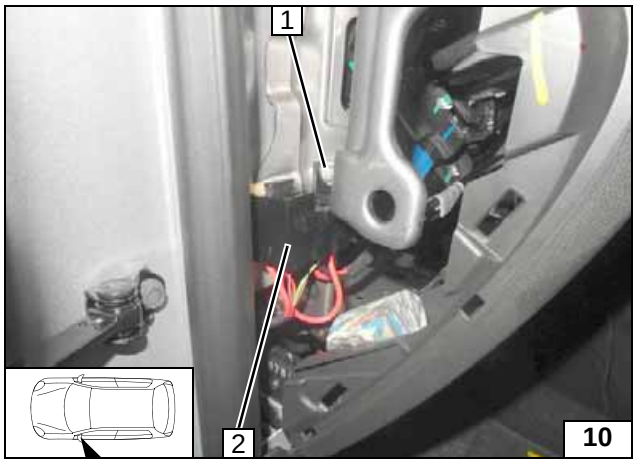
Legend

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

Routing of heater wiring harness

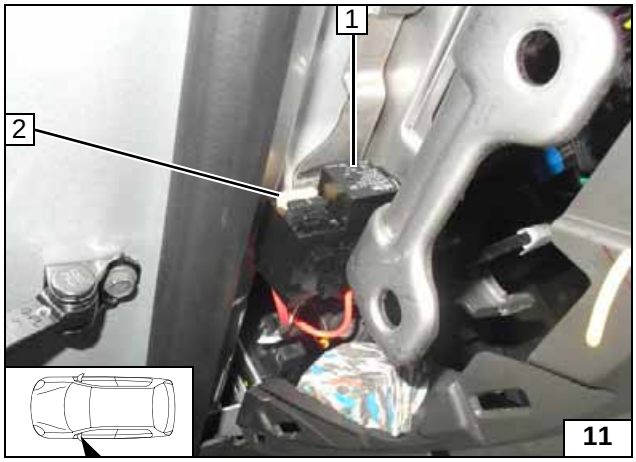


Route wiring harness of heater **1** along original vehicle wiring harness to installation location of heater.



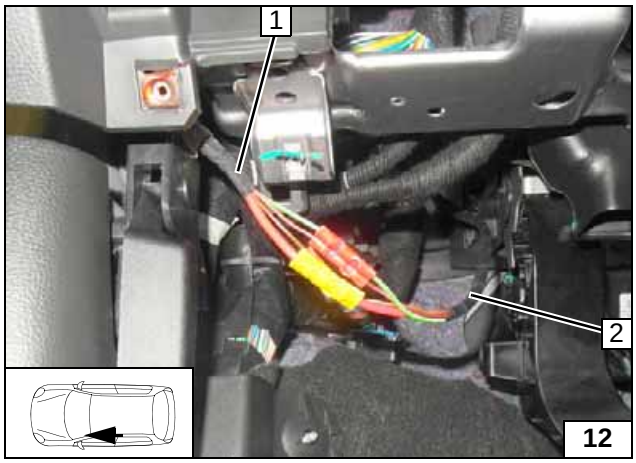
1 M5x16 bolt, large diameter washer [2x], nut, existing hole
2 Relay and fuse holder of passenger compartment

Mounting relay and fuse holder of passenger compartment



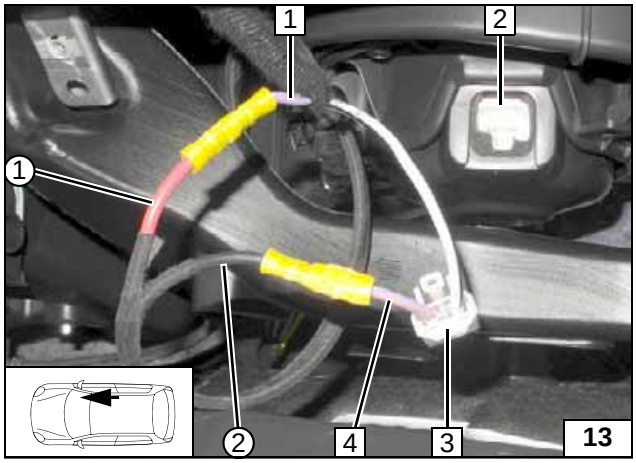
1 K1-relay
2 25A fuse F4

Inserting K1 relay and fuse F4



1 Wiring harness of passenger compartment relay and fuse holder
2 Wiring harness of heater

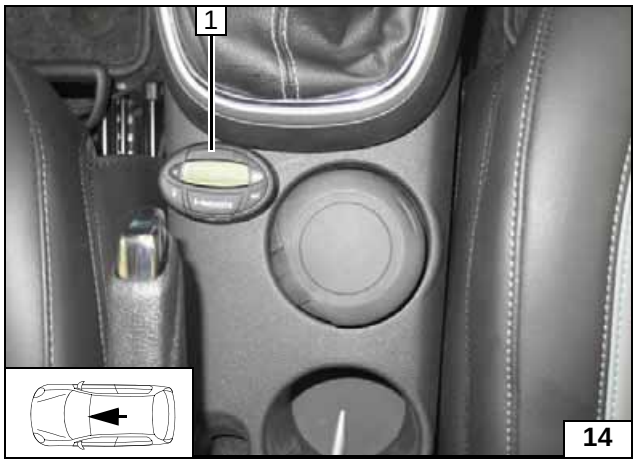
Connecting wiring harnesses using same colour wires



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

1 Violet (vi) wire of fan relay
2 Socket of connector GM
4 Violet (vi) wire of connector GM
① Red (rt) wire from K1/87a
② Black (sw) wire of K1/30

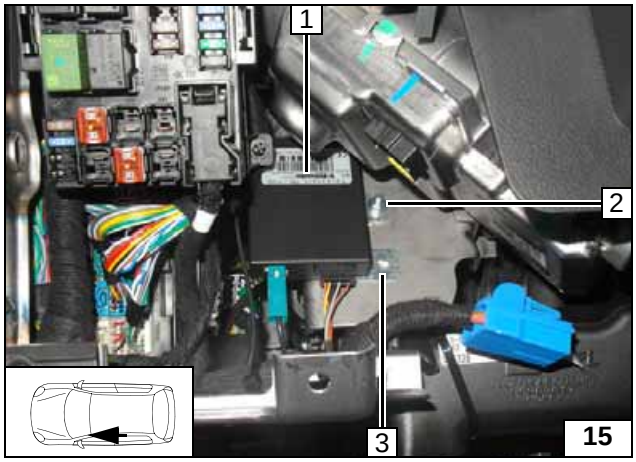
Connection of fan motor



Digital Timer

1 Digital timer

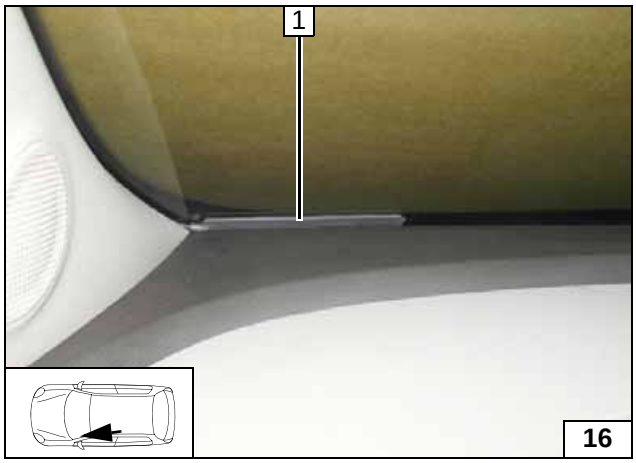
Mounting digital timer



Remote Option (Telestart)

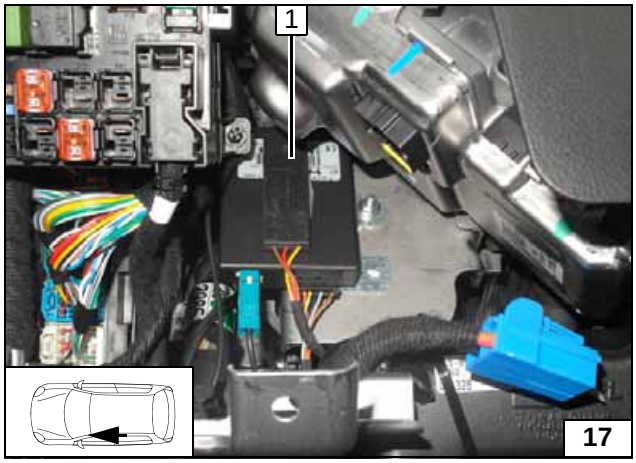
1 Receiver
2 M5x16 bolt, flanged nut, existing hole
3 Bracket

Installing receiver



1 Antenna

Installing antenna



Temperature sensor T100 HTM

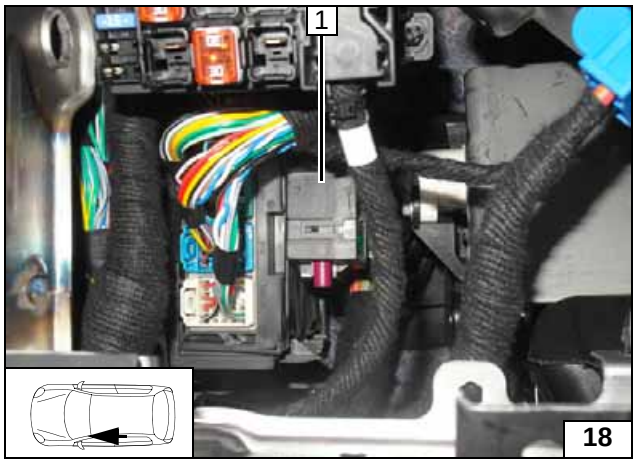
Fasten temperature sensor **1** with adhesive tape.

Installing temperature sensor

Remote Option (Thermo Call)

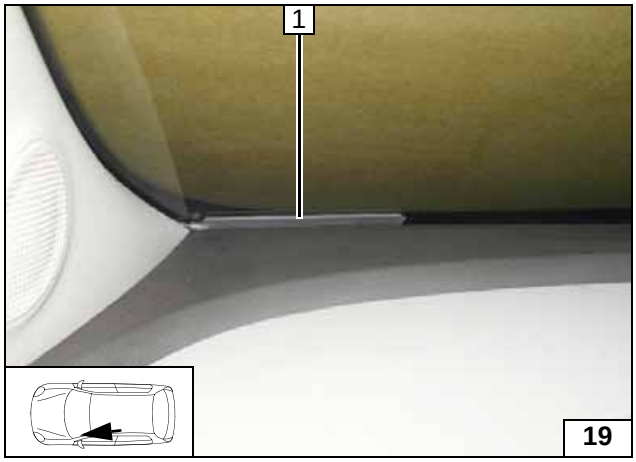
Installing receiver

Fasten receiver **1** with adhesive tape.

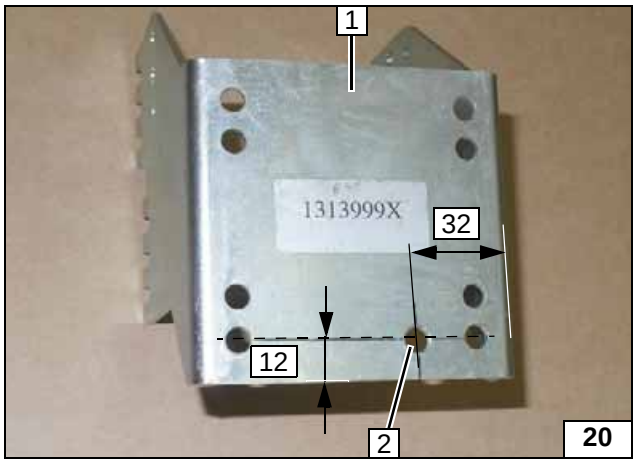


1 Antenna

Installing antenna

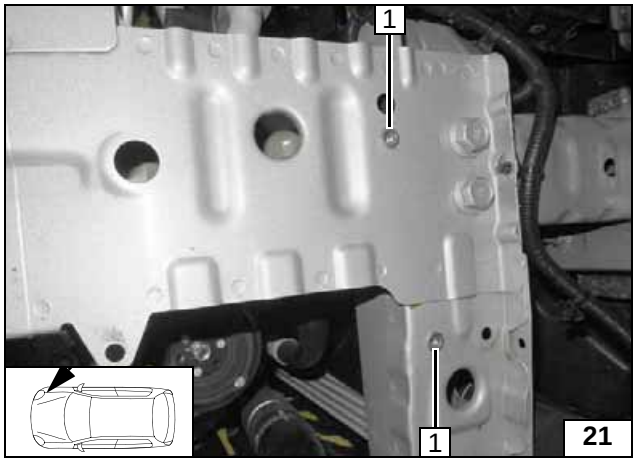


Preparing Installation Location



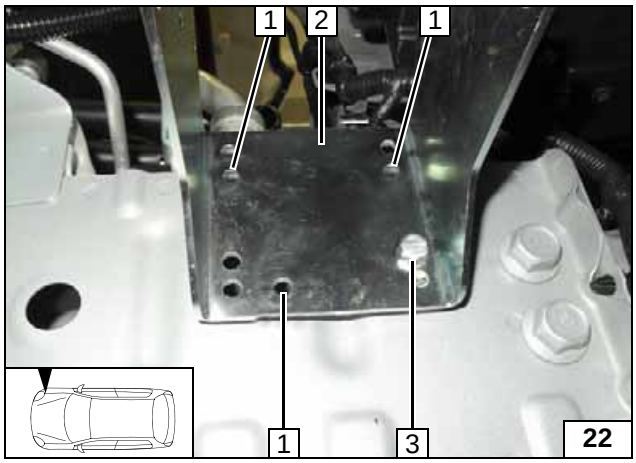
1 Bracket
2 7 mm dia. hole

Hole in bracket



1 Drill out hole to 9.1mm dia.; rivet nut [2x]

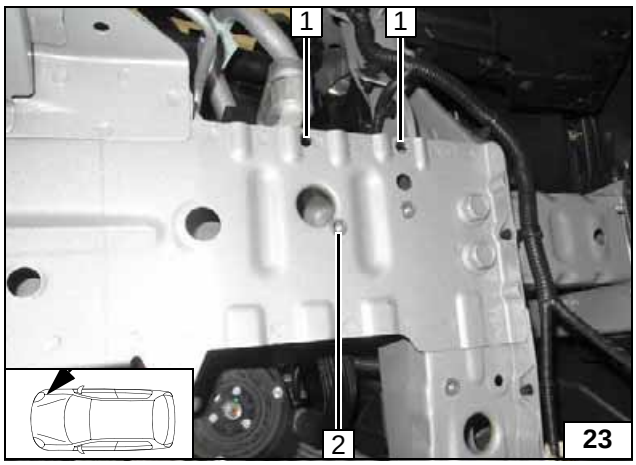
Installing rivet nuts



Install bracket **2** loosely and align perpendicularly.

1 Copy hole pattern [3x]
3 M6x25 bolt

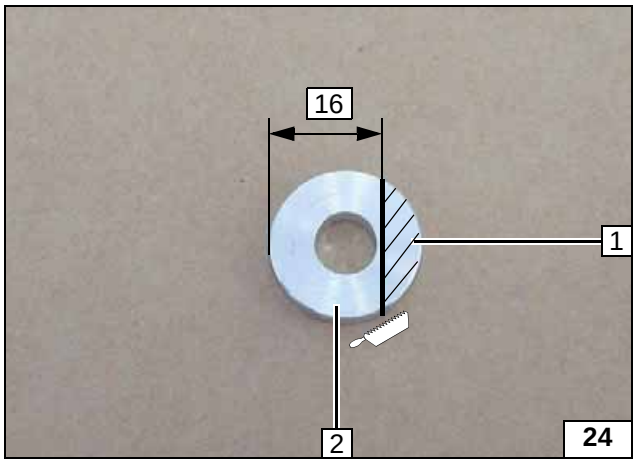
Installing bracket



Remove bracket.

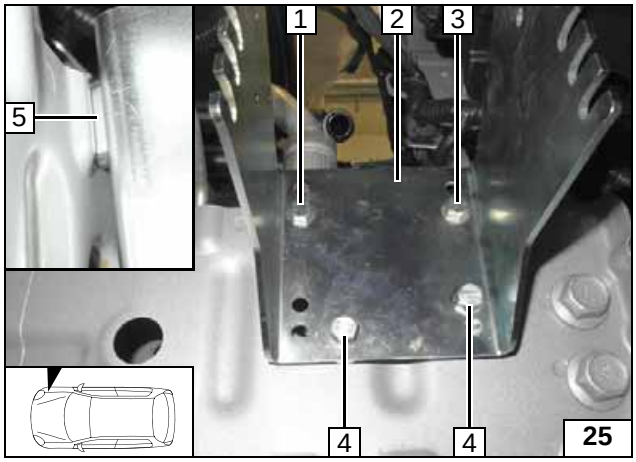
1 7mm dia. holes [2x]
2 9.1mm dia. holes; rivet nut

Installing rivet nut



1 Discard section.
2 5 mm shim

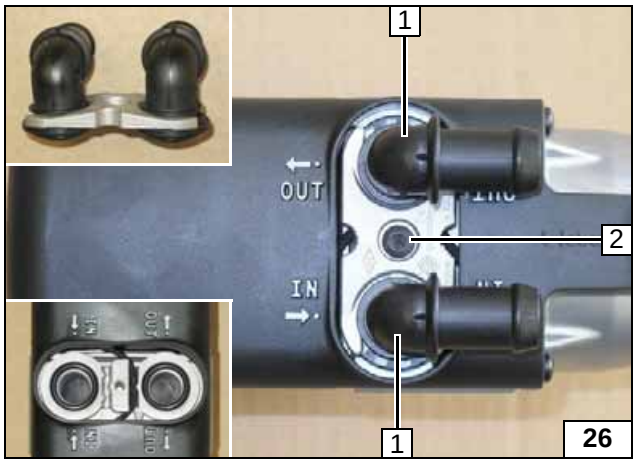
Preparing shim



Small figure shows prepared 5mm shim with incision at position **1**!

1 M6x20 bolt, prepared 5mm shim, flanged nut
2 Bracket
3 M6x20 bolt, spring lockwasher, 5mm shim, flanged nut
4 M6x25 bolt, spring lockwasher, 5mm shim, [2x each]

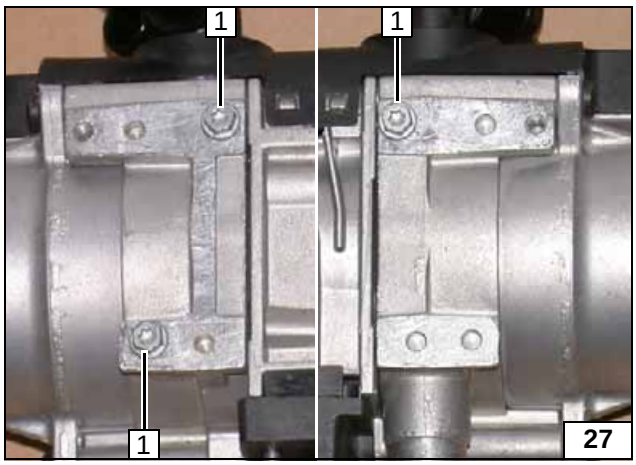
Installing bracket



Preparing Heater

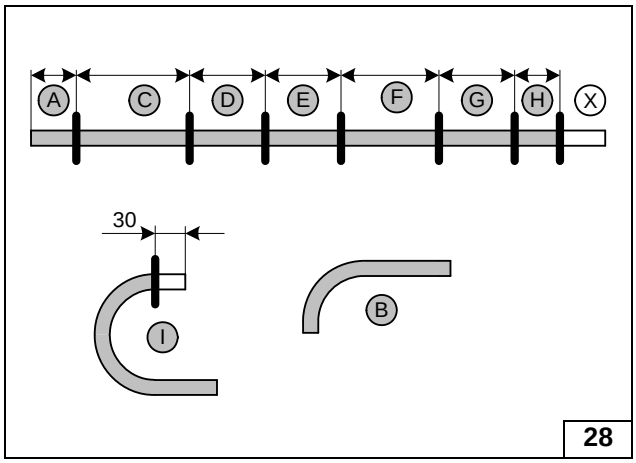
1 Water connection piece, sealing ring [2x each]
2 5x15 self-tapping bolt, retaining plate of water connection piece

Installing water connection pieces



Screw 5x13 self-tapping bolts **1** [3x] into existing holes by a maximum of 3 threads.

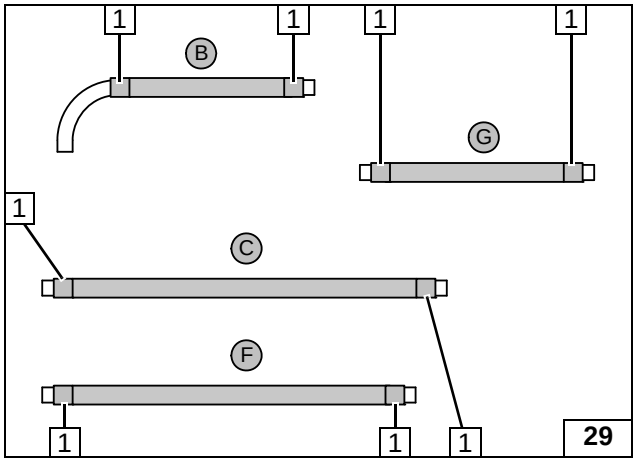
Premounting bolts loosely



Discard section **X**.
Hose **B** = 18mm dia., 90° moulded hose
Hose **I** = 180°, 20mm dia. moulded hose, cut short leg to length

A = 70
C = 550
D = 225
E = 225
F = 510
G = 460
H = 60

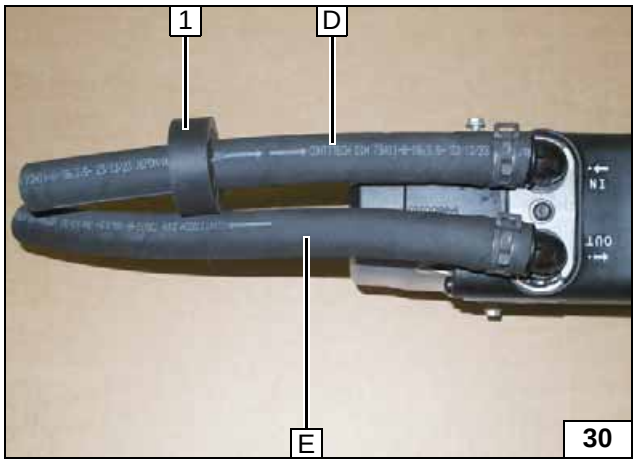
Cutting hoses to length



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

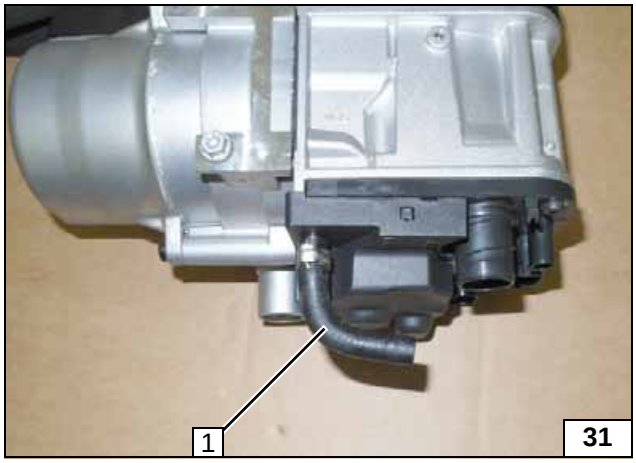
1 30 mm long heat shrink plastic tubing [8x]

Preparing hoses



1 Black (sw) rubber isolator

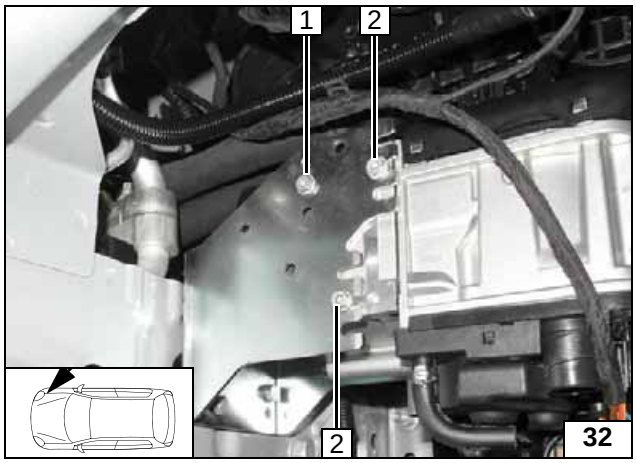
Premounting hoses



1 90° moulded hose, 10mm dia. clamp

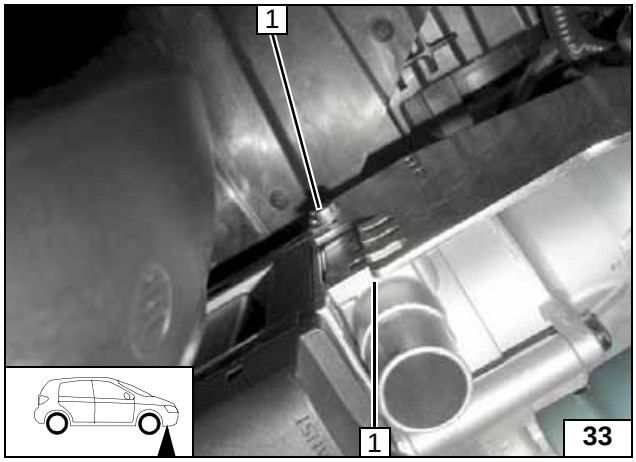
Premounting moulded hose

Installing Heater



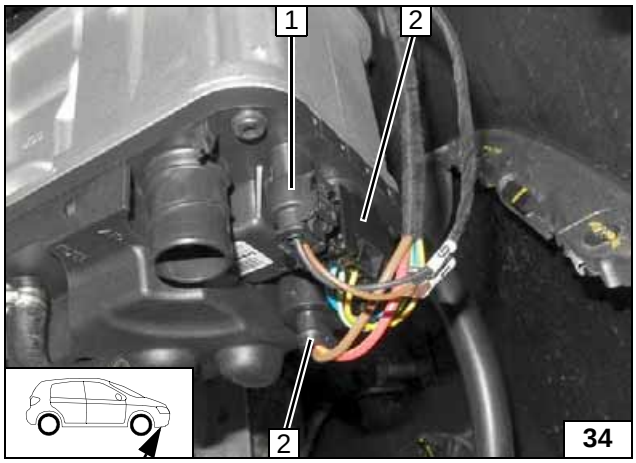
1 5x13 self-tapping bolt
2 Tighten 5x13 self-tapping bolt [2x]

Installing heater



1 Tighten 5x13 self-tapping bolt

Installing heater



1 Connector of circulating pump wiring harness
2 Heater wiring harness connector [2x]

Installing wiring harness

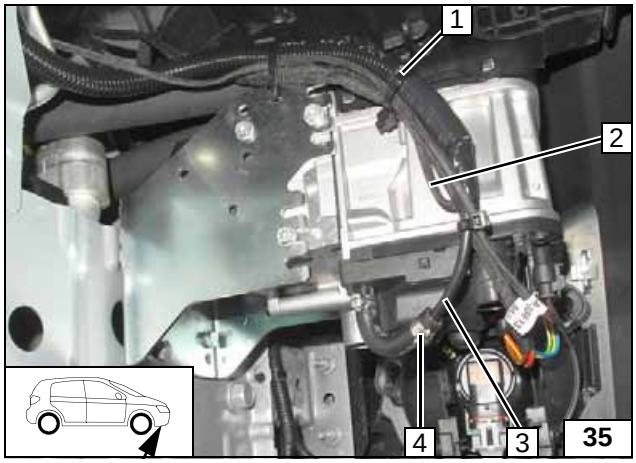
Fuel

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.
Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

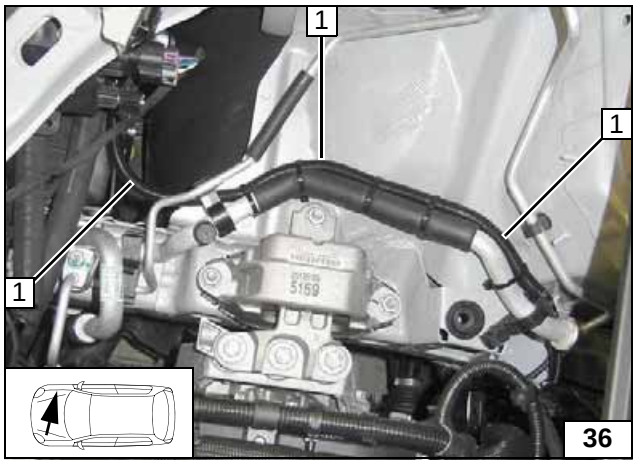
WARNING!
The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.



Pull fuel line **3** and wiring harness of metering pump **2** into 10mm dia., 2100mm long corrugated tube **1** and route in engine compartment.

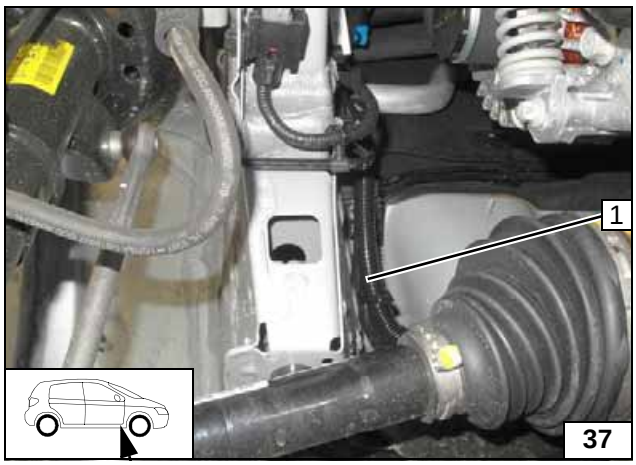
4 10mm dia. clamp

Connecting heater



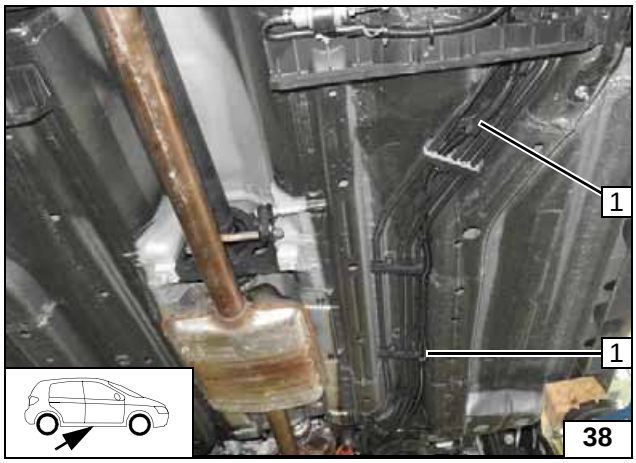
Route fuel line and wiring harness of metering pump in corrugated tube **1** along original vehicle lines to underbody.

Installing lines



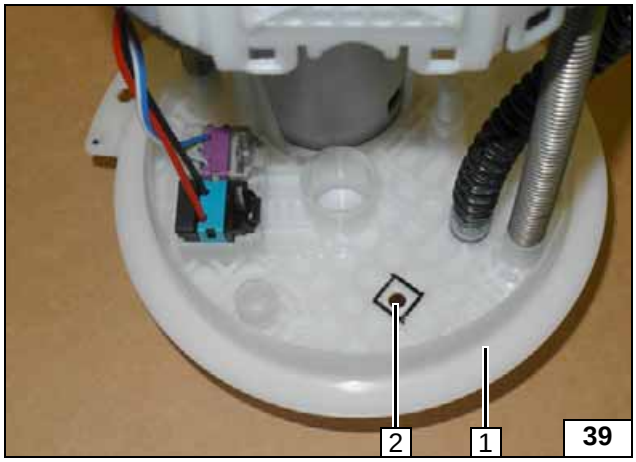
1 Fuel line and wiring harness of metering pump in corrugated tube

Installing lines



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

Installing lines

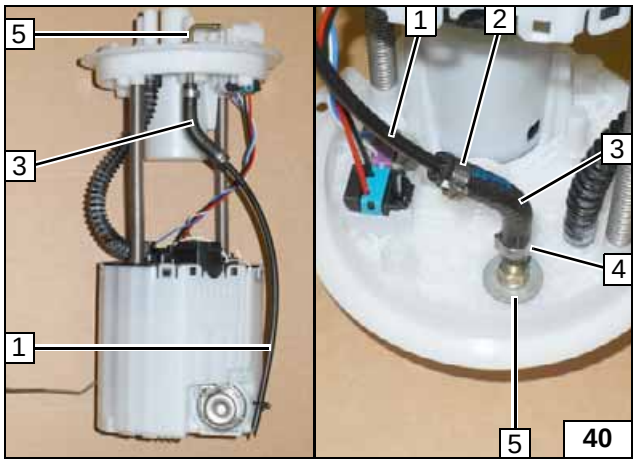


2 WD

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

2 6mm dia. hole in the middle, between the bars

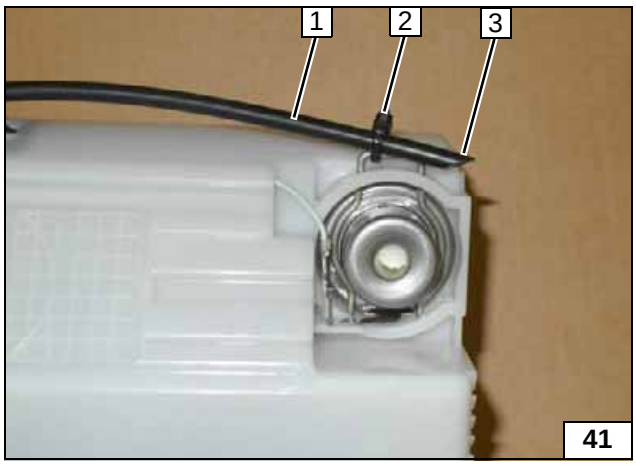
Fuel extraction



Insert large diameter washer with outer dia. d_a = 21.6mm at position **5**.

1 Fuel line
2 10mm dia. clamp
3 90° moulded hose with inner dia. d_i = 3.5x4.5mm (with inner dia. d_i = 3.5mm on fuel standpipe)
4 9mm dia. clamp
5 Fuel standpipe, large diameter washer with outer dia. d_a = 21.6mm

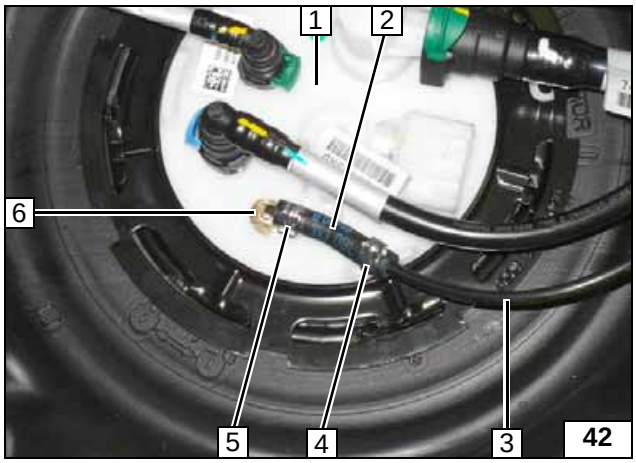
Installing fuel standpipe



Cut fuel line **1** obliquely to length at position **3** as shown.

2 Cable tie on locking device

Cutting and attaching fuel line

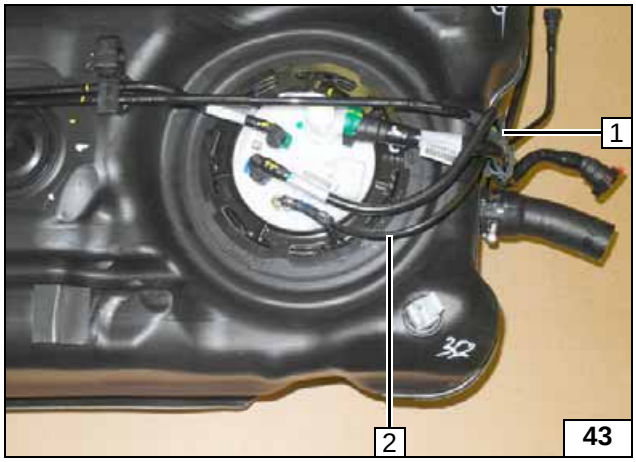


42

Install fuel-tank sending unit **1** according to manufacturer's specifications.

2 Hose section with inner dia. d_i = 3.5x4.5mm (with inner dia. d_i = 3.5mm on fuel standpipe)
3 Fuel line, fuel standpipe
4 10mm dia. clamp
5 9mm dia. clamp

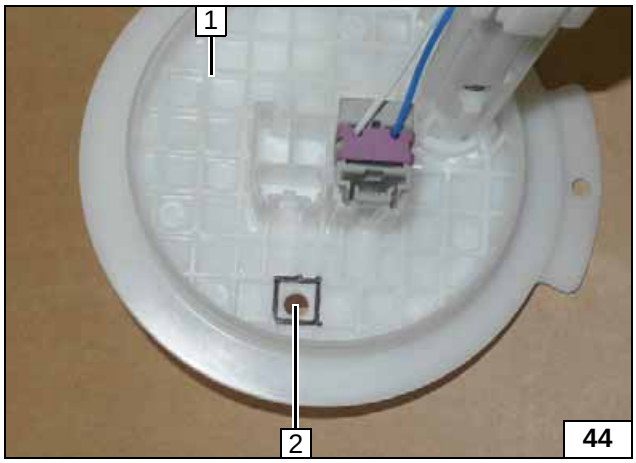
Connecting fuel line



43

Route fuel line of fuel standpipe **2** through original vehicle bracket **1**. Install fuel-tank again according to manufacturer's instructions.

Routing fuel line



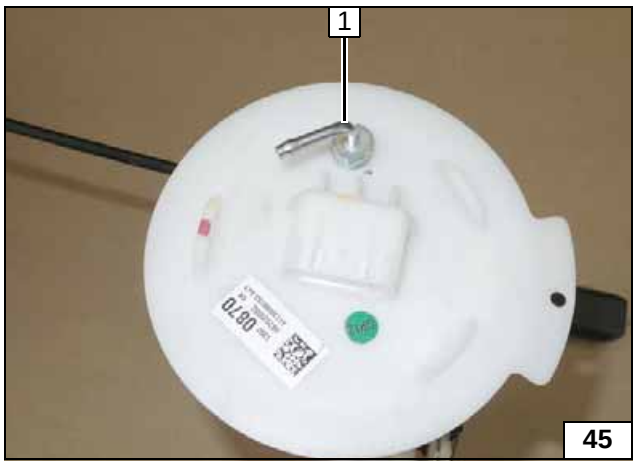
44

4 WD

Remove the fuel tank in accordance with the manufacturer's instructions. Remove fuel-tank sending unit **1** on the left in accordance with manufacturer's instructions.

2 6mm dia. hole in the middle, between the bars

Fuel extraction

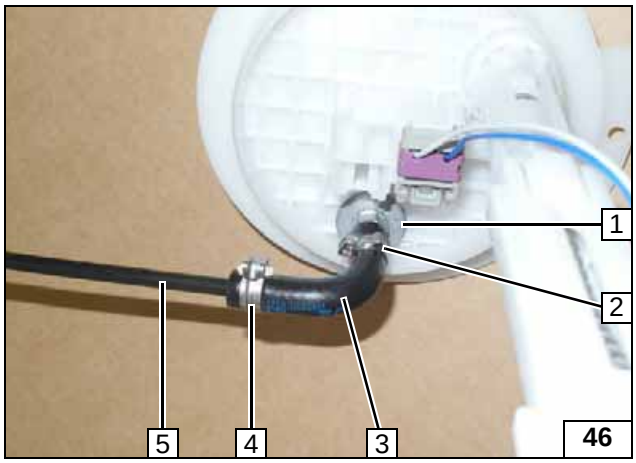


45

Insert large diameter washer with outer dia. d_a = 21.6mm, see next image.

1 Fuel standpipe

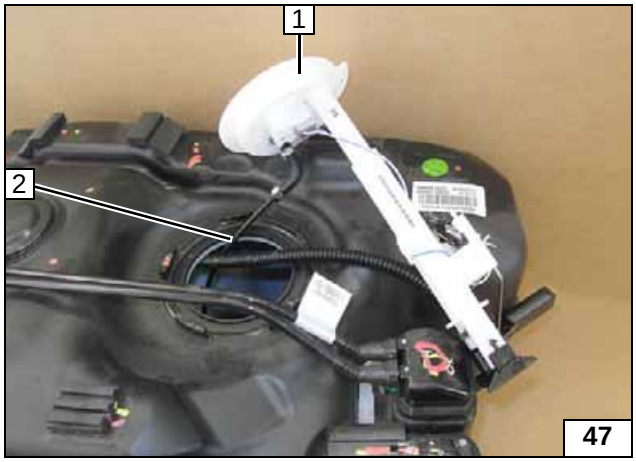
Installing fuel standpipe



Cut off approx. 1000mm from fuel line **5**.

1 Large diameter washer outer dia. = 21.6mm
2 9mm dia. clamp
3 90° moulded hose with inner dia. d_i = 3.5x4.5mm (with inner dia. d_i = 3.5mm on fuel standpipe)
4 10mm dia. clamp

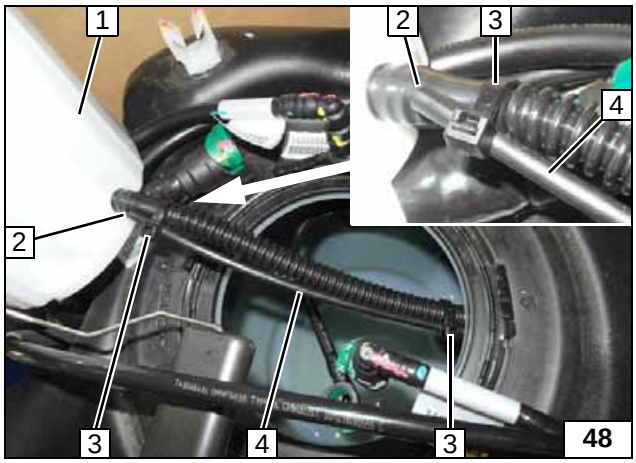
Installing fuel stand-pipe



Route fuel line **2** inside tank to fuel-tank sending unit on the right.

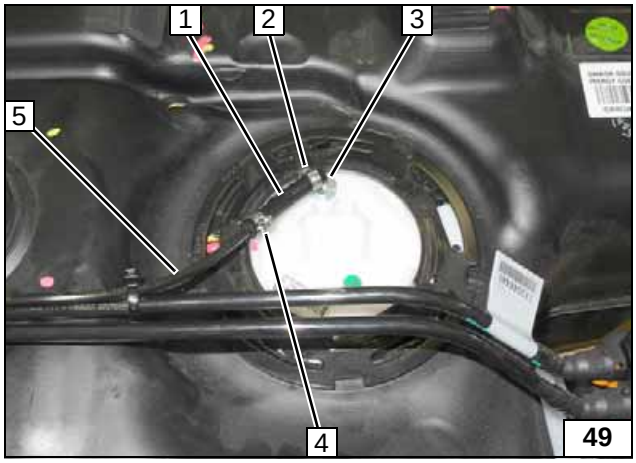
1 Mount fuel-tank sending unit on the left

Routing fuel line



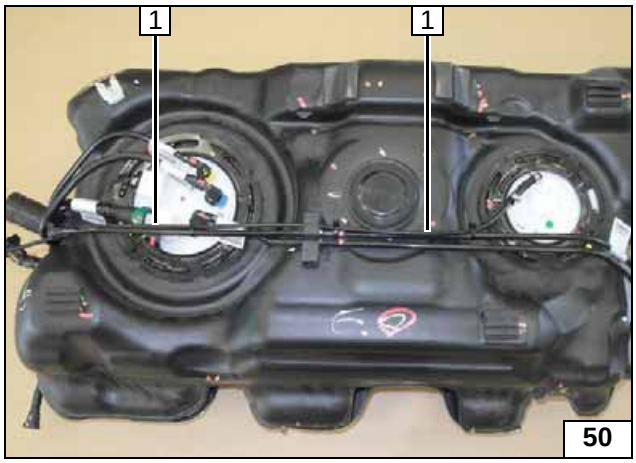
Remove fuel-tank sending unit on the right **1** in accordance with manufacturer's instructions and set aside. Fasten fuel line **4** with cable tie **3** to original vehicle fuel line and cut to length at position **2**. Install fuel-tank sending unit **1** on the right again after installation in accordance with manufacturer's instructions.

Routing fuel line



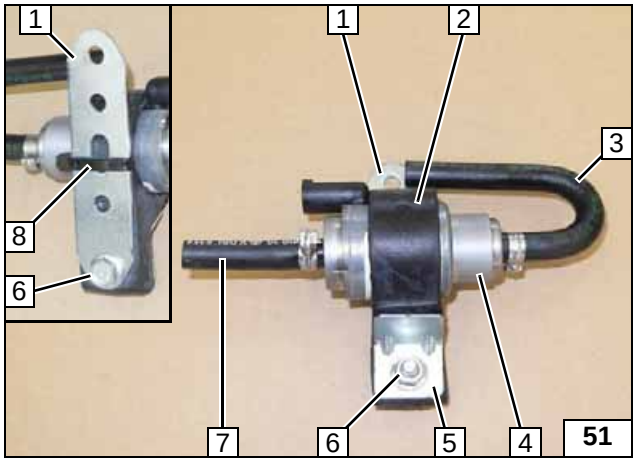
1 90° hose section with inner dia. d_i = 3.5x4.5mm (with inner dia. d_i = 3.5mm on fuel standpipe)
2 9mm dia. clamp
3 Fuel standpipe
4 10mm dia. clamp
5 Fuel line, fuel standpipe

Connecting fuel line



Fasten fuel line of fuel standpipe **1** with cable tie on original vehicle fuel line. Install fuel-tank again according to manufacturer's instructions.

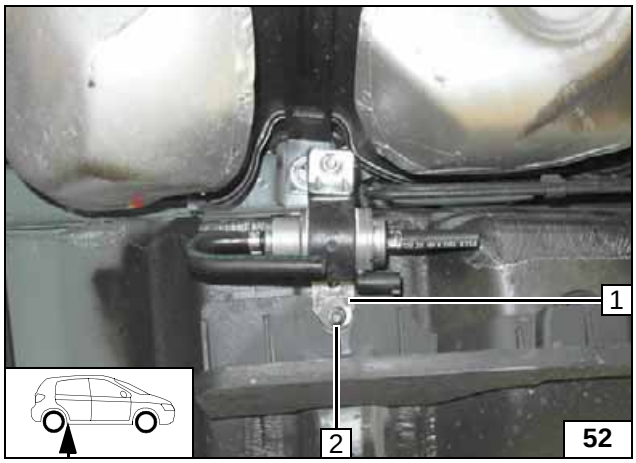
Routing fuel line



All vehicles

1 Perforated bracket
2 Mounting of metering pump
3 180° moulded hose, 10mm dia. clamp
4 Metering pump
5 Support angle bracket
6 M6x25 bolt, flanged nut
7 Hose section, 10 mm dia. clamp
8 Cable tie

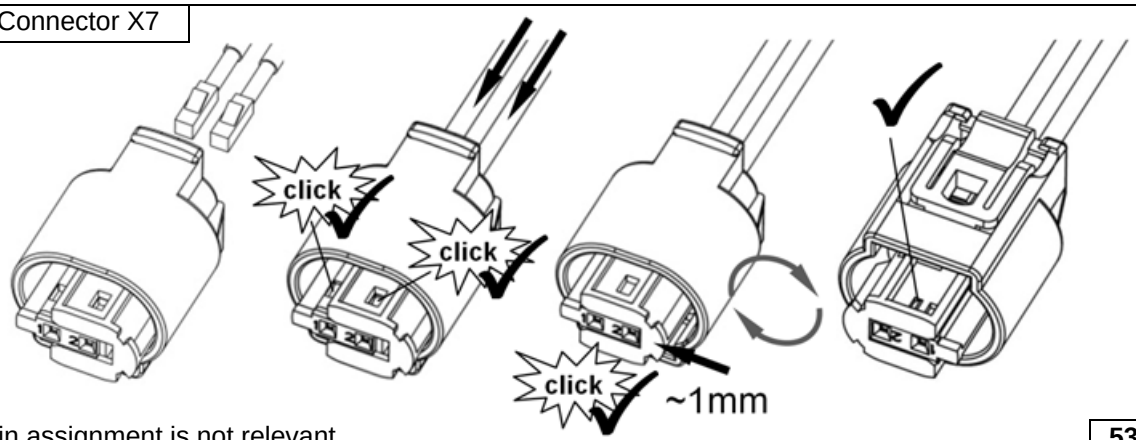
Premounting metering pump



1 Perforated bracket
2 Original vehicle stud bolt, original vehicle nut

Installing metering pump

Connector X7



Pin assignment is not relevant.

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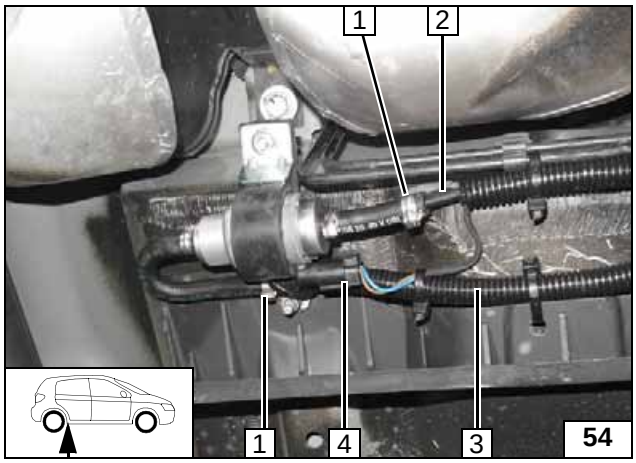
Completing metering pump connector

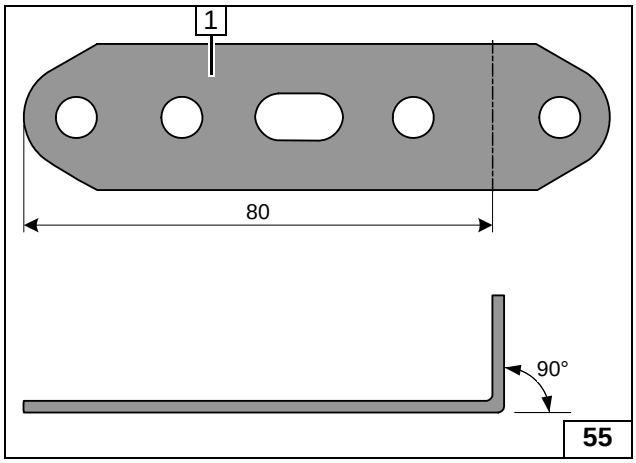


Slide 10mm dia., 430mm long corrugated tube **3** onto fuel line of fuel standpipe. Ensure sufficient distance to adjacent components, ensure freedom of movement, correct if necessary.

1 10mm dia. clamp [2x]
2 Fuel line of heater
4 Wiring harness of metering pump, connector X7 mounted

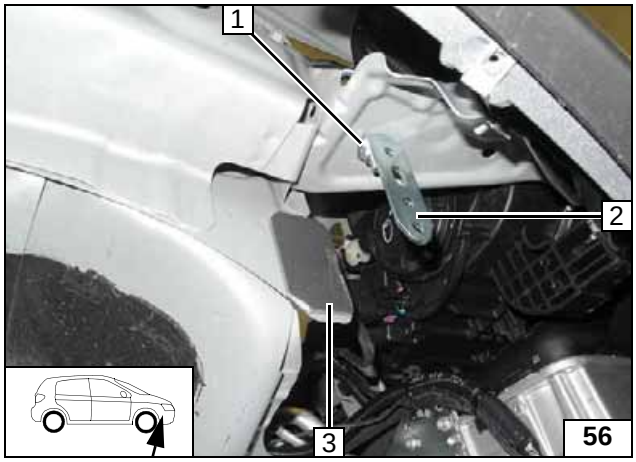
Connecting metering pump

Combustion Air



1 Perforated bracket

Preparing perforated bracket

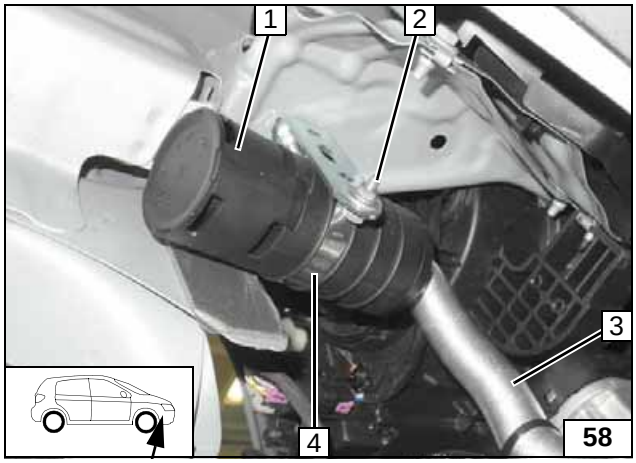


1 M6x20 bolt, flanged nut, existing hole
2 Perforated bracket
3 Paste insulation protection strip

Installing perforated bracket

1 Combustion air pipe

Installing combustion air pipe

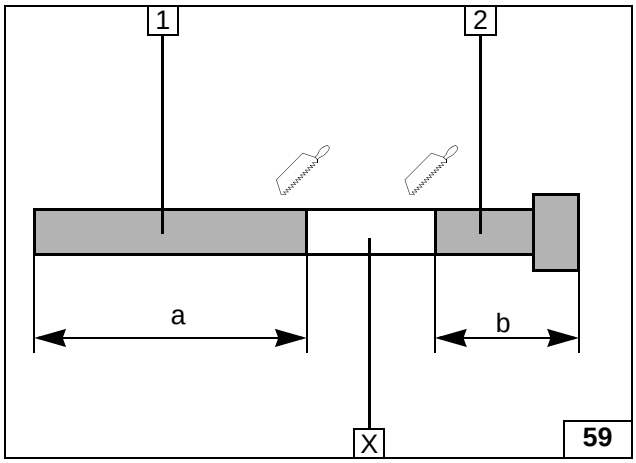


1 Silencer
2 M5x16 bolt, flanged nut
3 Combustion air pipe
4 51mm dia. clamp

Installing silencer

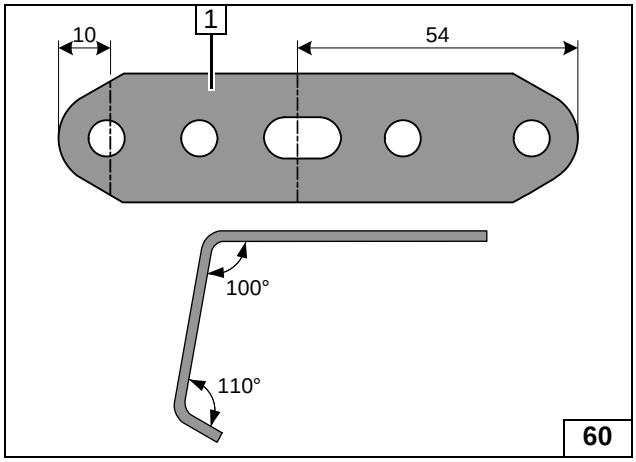
Exhaust Gas

Discard section **X**.



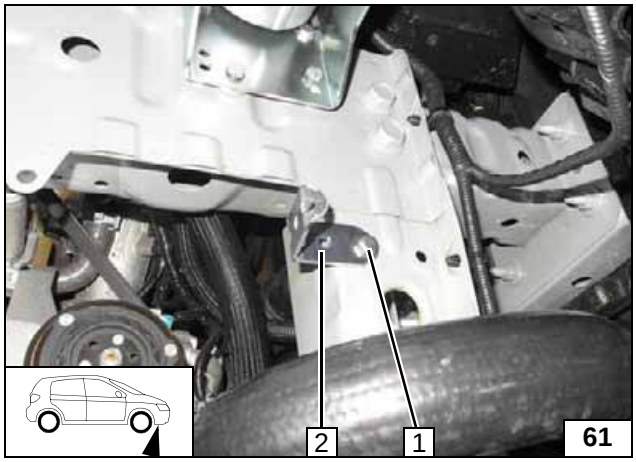
1 Combustion air pipe
a = 380
2 Exhaust end section
b = 175

Preparing exhaust pipe



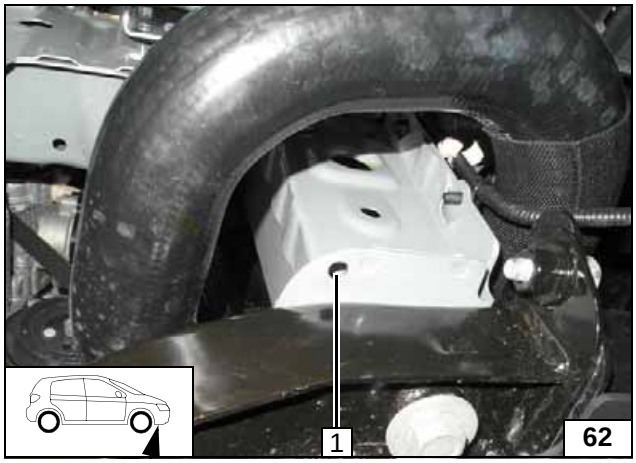
1 Perforated bracket

Preparing perforated bracket



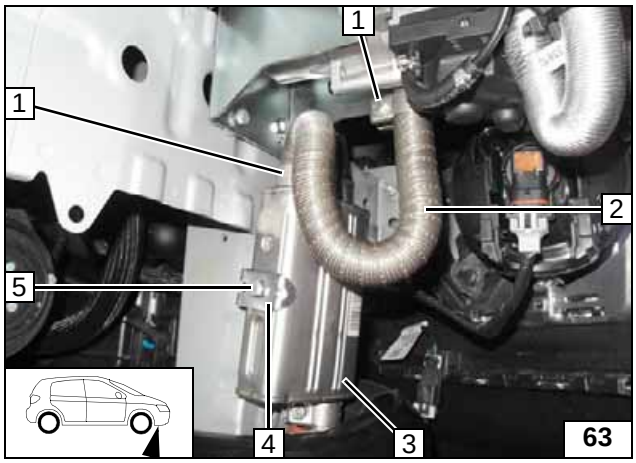
1 M6x20 bolt, spring lockwasher on rivet nut
2 Perforated bracket

Installing perforated bracket



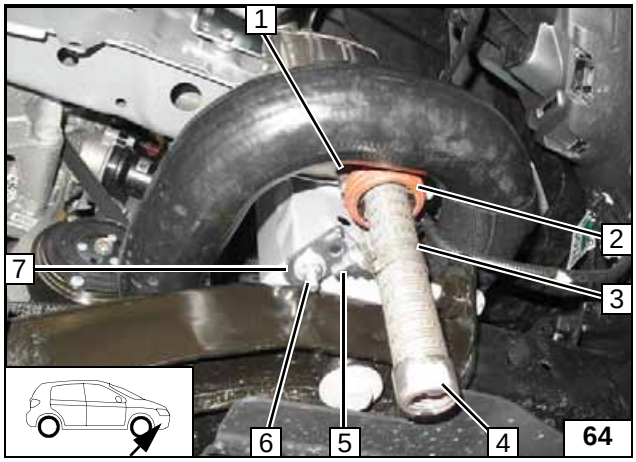
1 7mm dia. hole as shown

Hole in cross member



1 Hose clamp [2x]
2 Exhaust pipe
3 Silencer
4 Perforated bracket
5 M6x16 bolt, spring lockwasher

Installing silencer and exhaust pipe



Ensure sufficient distance to adjacent components (min. 20mm), ensure freedom of movement, correct if necessary.

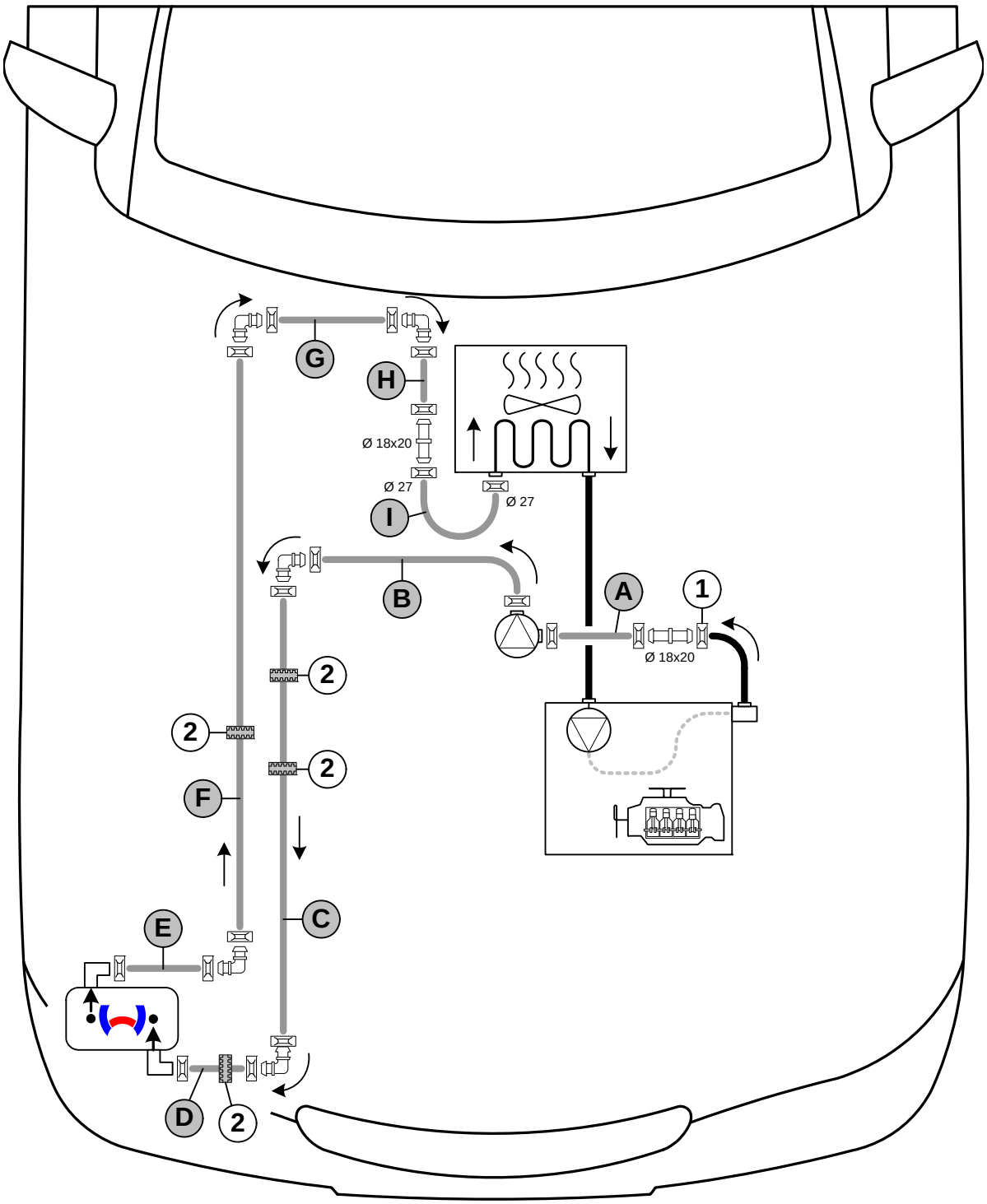
1 Hose clamp
2 Align spacer bracket with original vehicle hose
3 P-clamp
4 Exhaust end section
5 M6x20 bolt, flanged nut
6 M6x20 bolt, large diameter washer, flanged nut
7 Angle bracket

Fastening exhaust end section

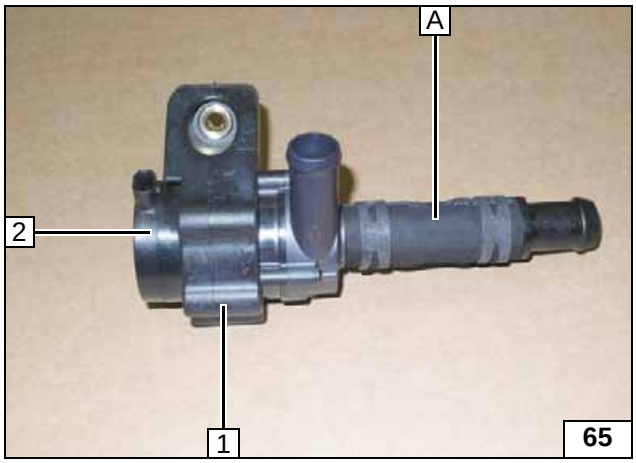
Coolant Circuit

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

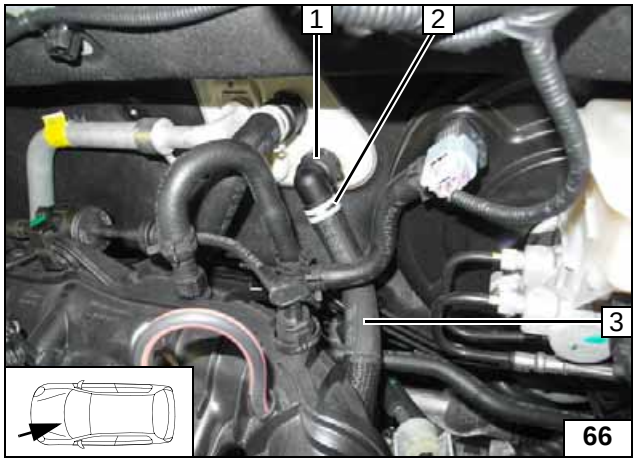


All non-designated spring clips = 25mm dia.
1 = Original vehicle spring clip. **2** = black (sw) rubber isolator.
All connecting pipes = 18x18mm dia.



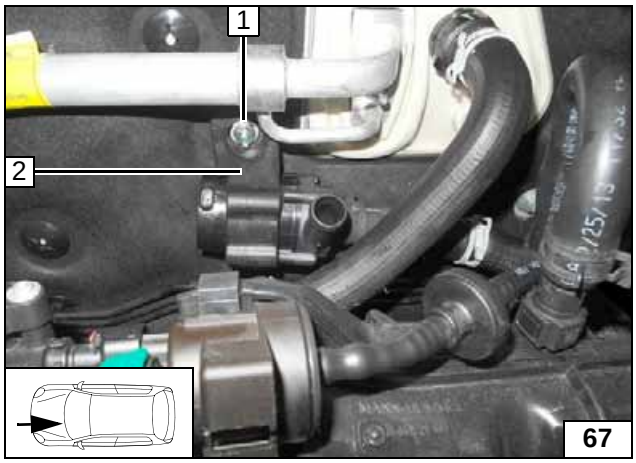
1 Mounting of circulating pump
2 Circulating pump

Premounting circulating pump



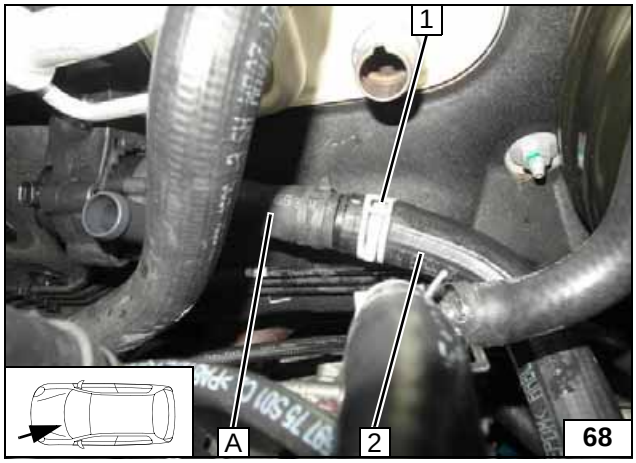
Detach quick-release coupling **1** from heat exchanger inlet connection piece. Pull hose of heat exchanger inlet **3** from quick-release coupling. Spring clip **2** will be reinserted.

Cutting point



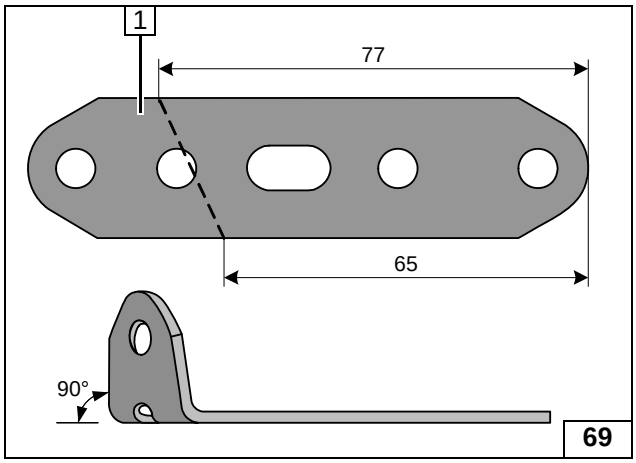
1 Original vehicle stud bolt, flanged nut
2 Mounting of circulating pump

Installing circulating pump



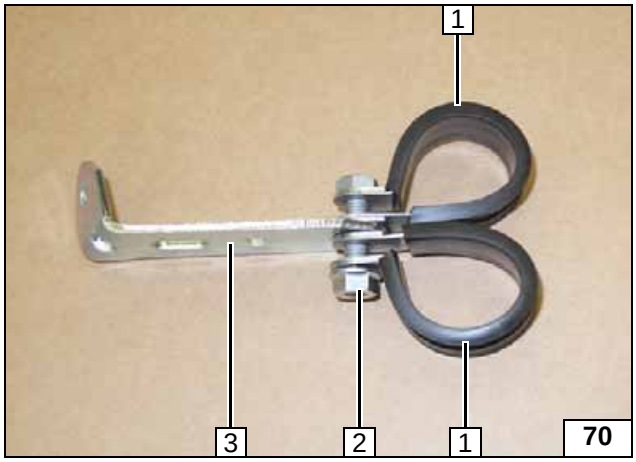
1 Original vehicle spring clip
2 Hose of engine outlet

Connecting engine outlet



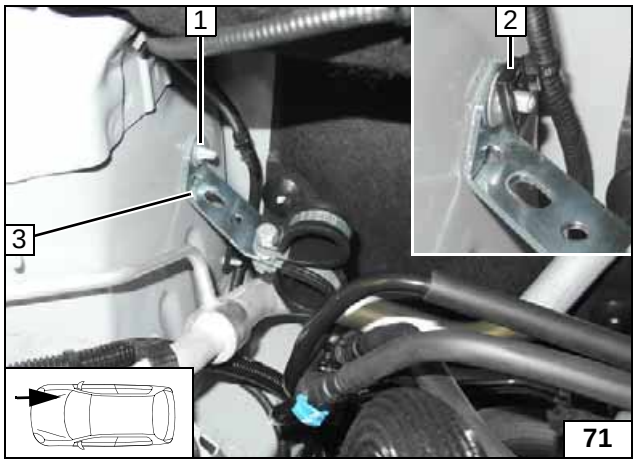
1 Perforated bracket

Preparing perforated bracket



1 25mm dia. rubber-coated p-clamp [2x]
2 M6x25 bolt, mount flanged nut loosely
3 Perforated bracket

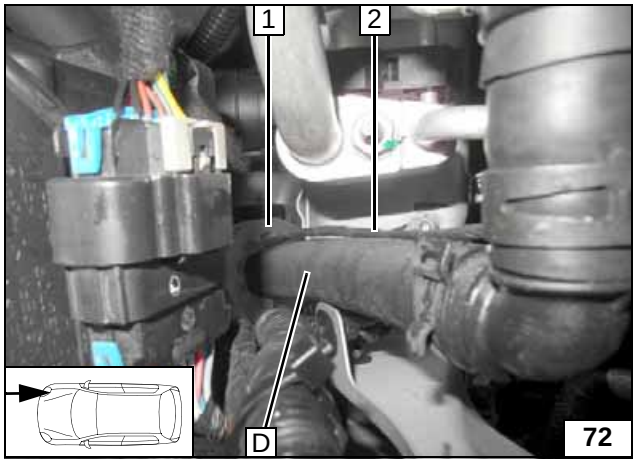
Premounting perforated bracket



Detach retaining clip **2** from original vehicle stud bolt, mount again after installation.

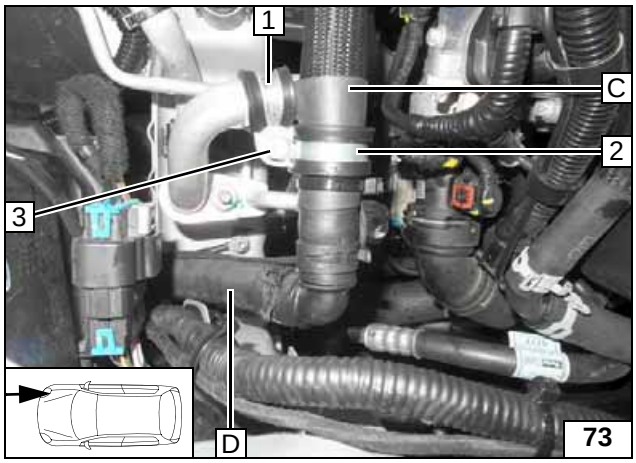
1 Original vehicle stud bolt, cap nut
3 Perforated bracket

Installing perforated bracket



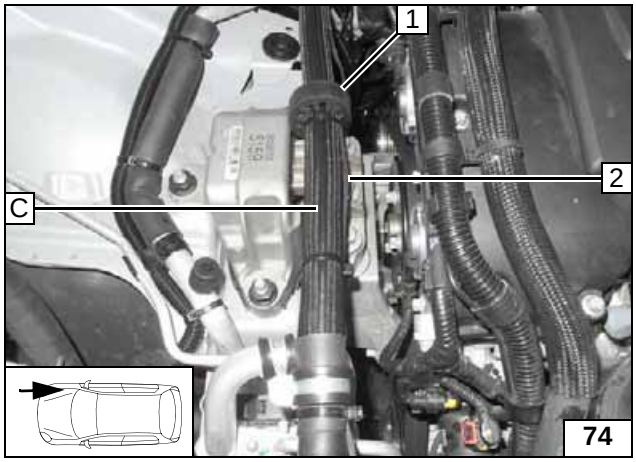
1 Position black (sw) rubber isolator
2 Wiring harness of circulating pump

Aligning rubber isolator



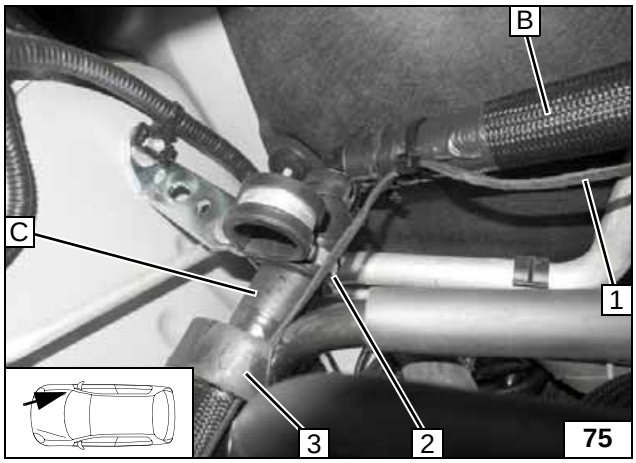
1 Rubber-coated p-clamp 18mm dia.
2 Rubber-coated p-clamp 25mm dia.
3 M6x25 bolt, flanged nut

Routing in engine compartment



1 Slide on black (sw) rubber isolator and align
2 Wiring harness of circulating pump

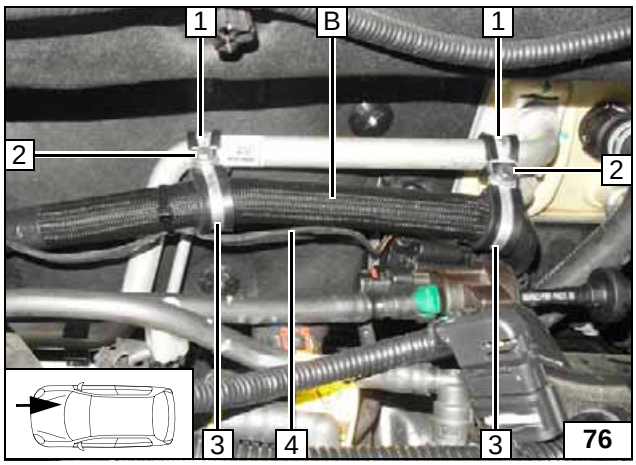
Routing in engine compartment



Route hose **C** through lower rubber-coated p-clamp **2**.

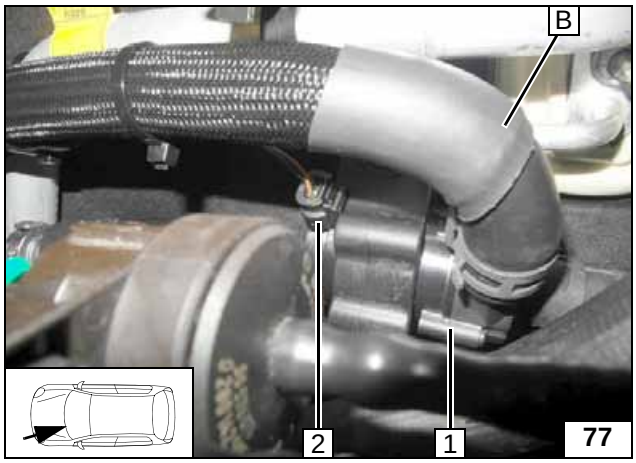
1 Wiring harness of circulating pump
3 Slide on black (sw) rubber isolator and align

Routing in engine compartment



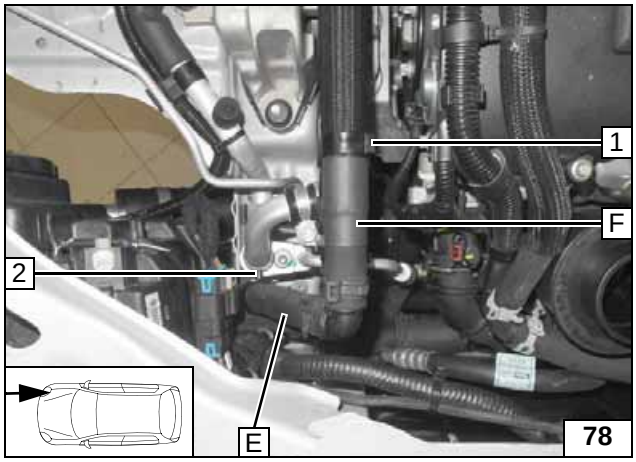
1 18mm dia. rubber-coated p-clamp [2x]
2 M6x25 bolt, flanged nut [2x each]
3 25mm dia. rubber-coated p-clamp [2x]
4 Wiring harness of circulating pump

Routing in engine compartment



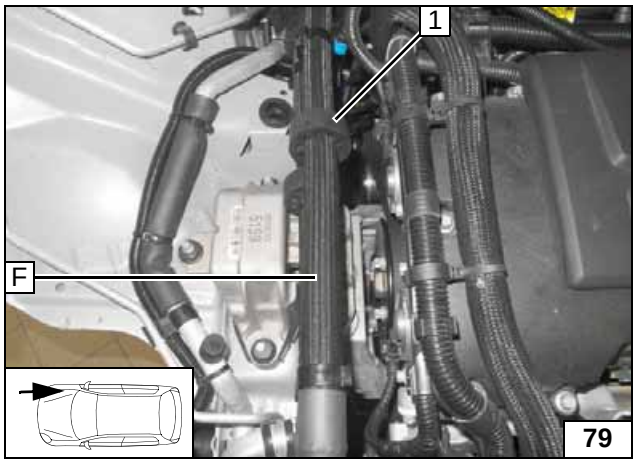
1 Circulating pump
2 Attach wiring harness of circulating pump

Connection of circulating pump



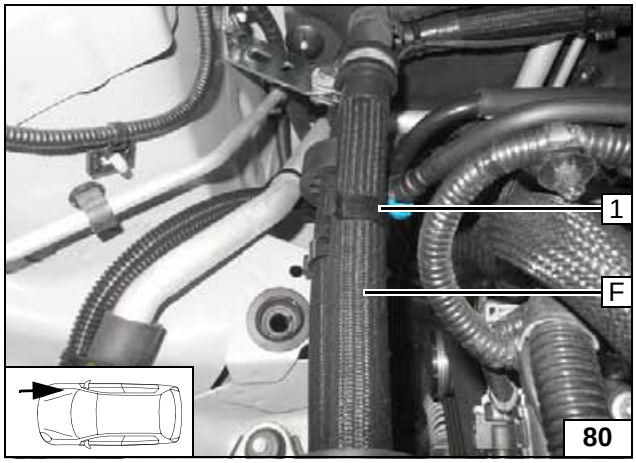
1 25x25 hose bracket between hose **C** and hose **F**
2 20x22 hose bracket between A/C line and hose **E**

Routing in engine compartment



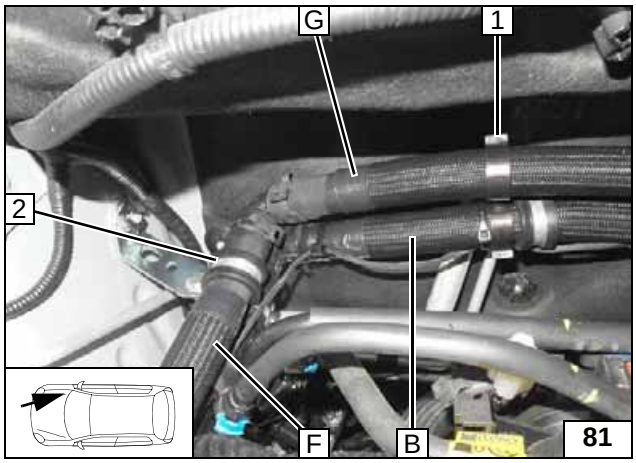
1 Slide on black (sw) rubber isolator and align

Routing in engine compartment



1 25x25 hose bracket between hose **C** and hose **F**

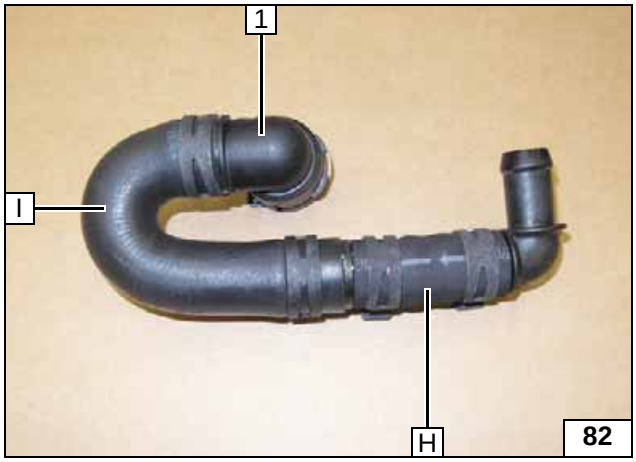
Routing in engine compartment



Route hose **F** through upper rubber-coated p-clamp **2**.

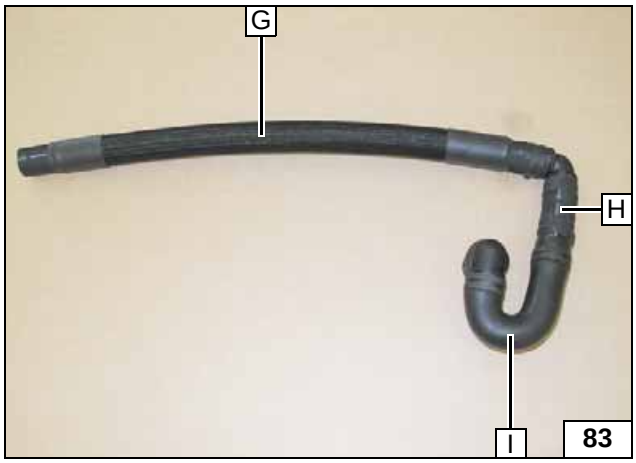
1 25x25 hose bracket between hose **B** and hose **G**

Routing in engine compartment

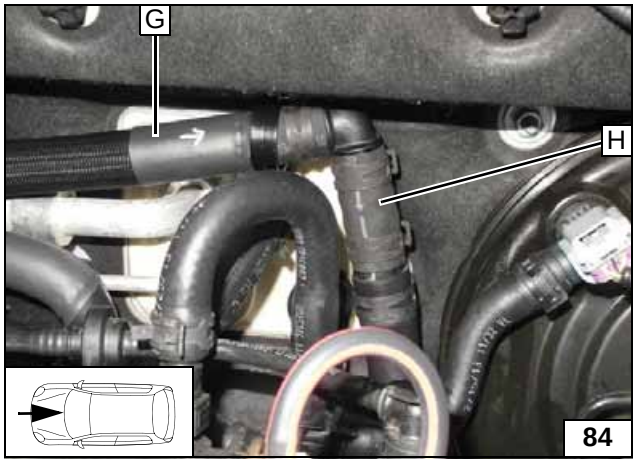


1 Coupling piece of heat exchanger inlet

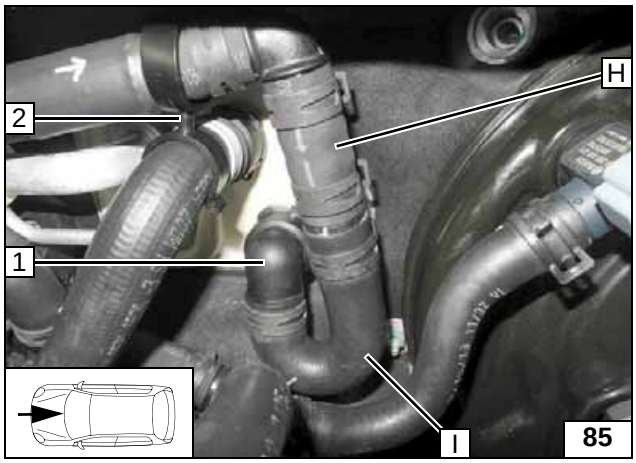
Premounting hoses



Premounting hoses

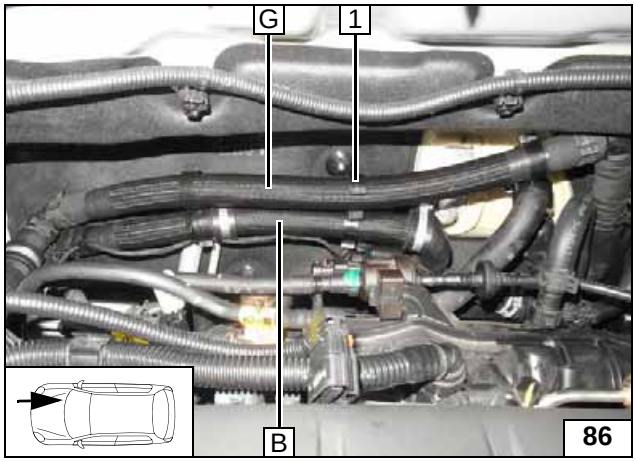


Routing in engine compartment



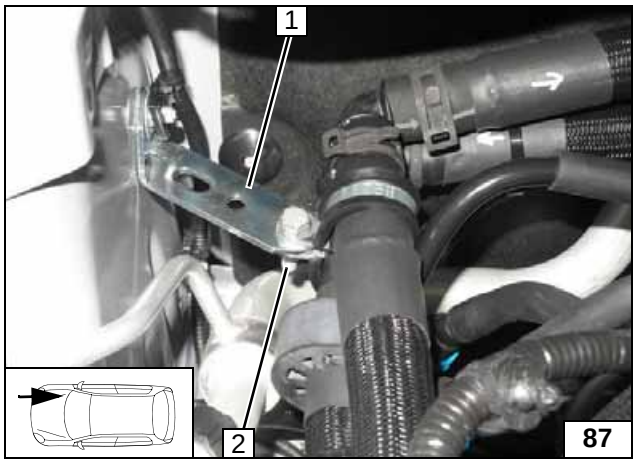
1 Coupling piece of heat exchanger inlet
2 25x25 hose bracket between hose **G** and hose of heat exchanger outlet

Connecting heat exchanger inlet



1 25x25 hose bracket between hose **B** and hose **G**

Mounting hose bracket



Align hoses. Ensure sufficient distance to adjacent components, ensure freedom of movement, correct if necessary.

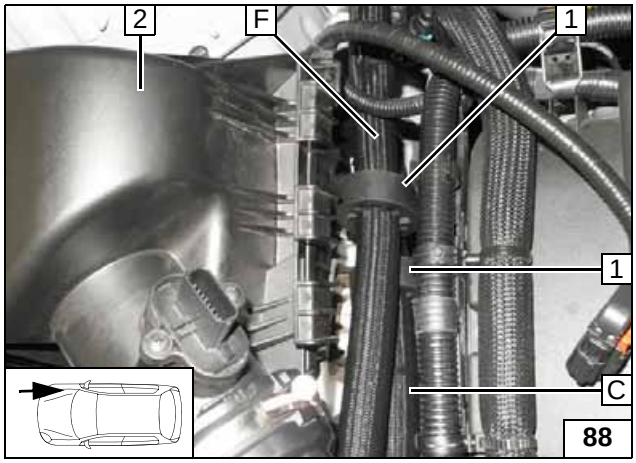
1 Perforated bracket
2 M6x25 bolt, flanged nut

Tightening bolt connections

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).

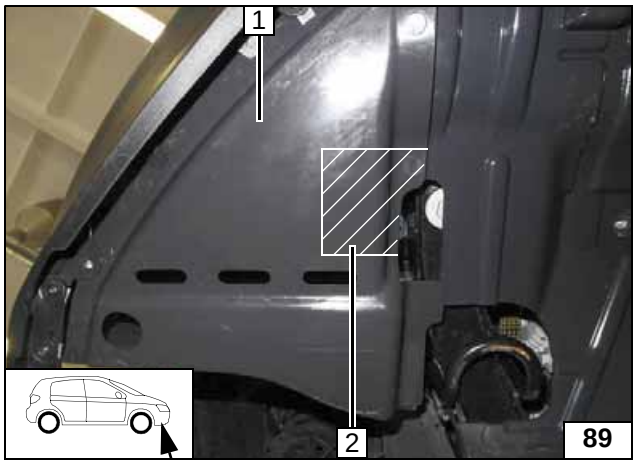
- **Connect the battery.**
- **Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.**
- **Adjust digital timer, teach Telestart transmitter.**
- **Make settings on A/C control panel according to the "Operating Instructions for End Customer".**
- **Place caution label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



Align rubber isolator **2**. Ensure sufficient distance to adjacent components, ensure freedom of movement, correct if necessary.

1 Air filter box mounted

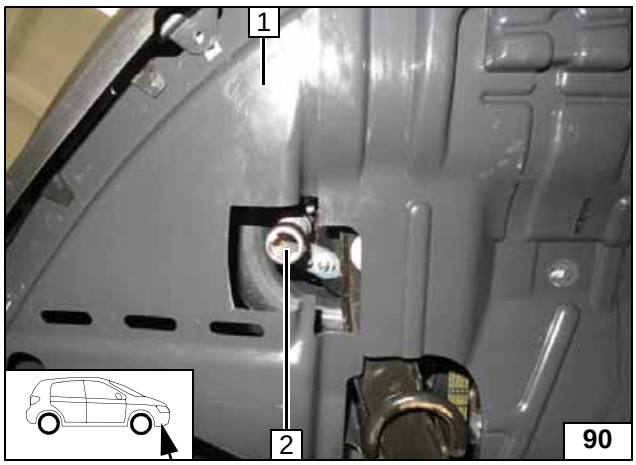
Aligning hoses



Place wheel well trim **1**, copy markings and cut out area.

2 Discard section

Cutting out wheel well trim



Align exhaust end section **2** flush with wheel well trim **1**.

Aligning exhaust end section

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

Webasto
Feel the Drive

Operating Instructions for End Customer

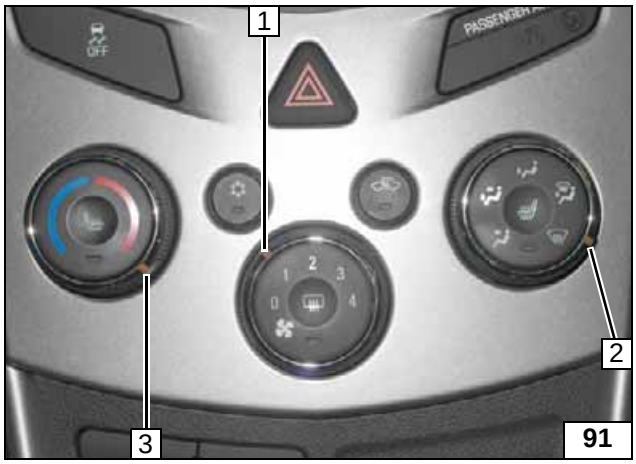
Please remove page and add to the vehicle operating instructions.

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.

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.

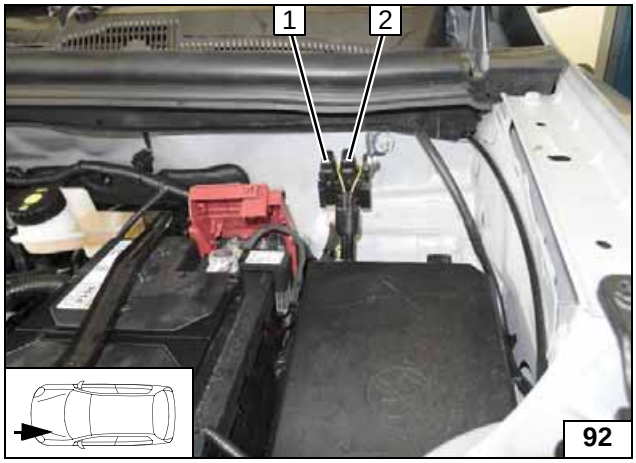
Before parking the vehicle, make the following settings:

Air-conditioning control panel



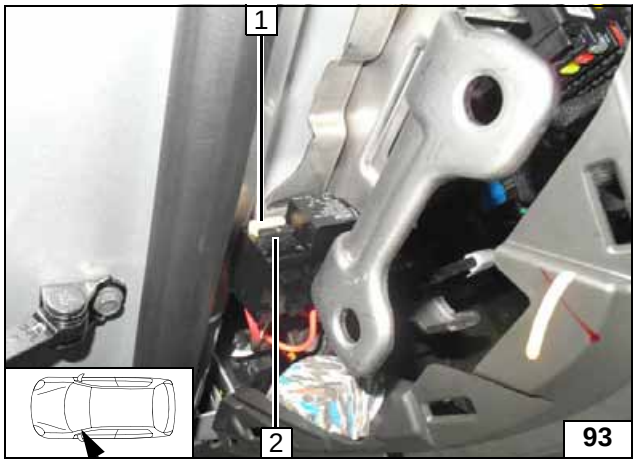
1 Set fan to level "1", max. "2"
2 Air outlet to windscreen
3 Set temperature to "max.“

Engine compartment fuses



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

Passenger compartment fuses



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