



Water Heater

Thermo Top Evo Parking Heater



Installation Documentation

BMW 4 Series

Validity

| Manufacturer | Model | Type | EG BE No. / ABE |
|--------------|----------|------|----------------------------|
| BMW | 4 Series | C1X | e1 * 2007 / 46 * 0316 *... |

| Motorisation | Fuel | Transmission type | Output in kW | Displacement in cm ³ | Engine code |
|--------------|--------|-------------------|--------------|---------------------------------|-------------|
| 420d | Diesel | ASG | 140 | 1995 | B47D20A |

ASG = semi-automatic transmission (Steptronic)

From model year 2016
Left-hand drive vehicle

Verified equipment variants: 2 zone automatic air-conditioning
Start-stop system
Start button
LED main headlights
LED front fog lights
4 WD

Not verified: Xenon headlights
Headlight washer system
Passenger compartment monitoring

Total installation time: approx. 10.5 hours

BMW 4 Series

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Necessary Components

- Basic delivery scope of Thermo Top Evo based on price list
- Installation kit for BMW 4 Series 2016 Diesel: **1326040A**
- Additional 'Webasto Comfort' A/C control kit for BMW 1 Series / 3 Series / 4 Series: **1324388_**
- 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 installation location in consultation with end customer

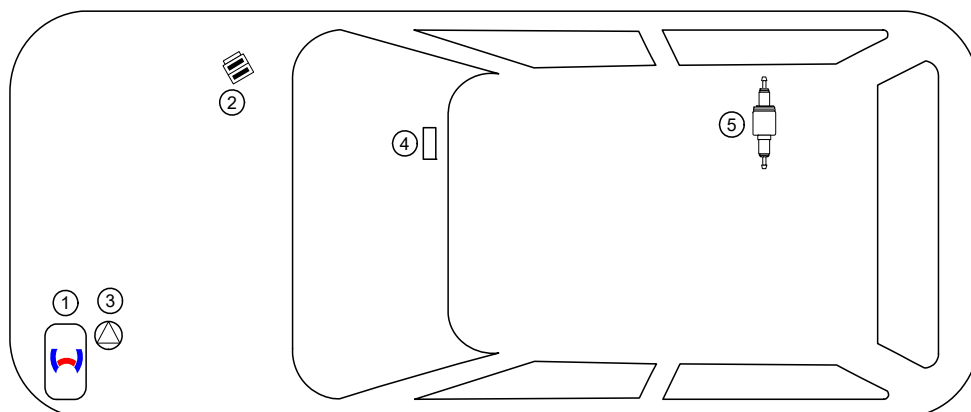
Installation instructions:

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

Installation Overview

Legend:

1. Heater
2. Engine compartment fuse holder
3. Circulating pump
4. Telestart or ThermoCall receiver
5. Metering pump



Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting 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 228).

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).

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 programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

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

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StVZO (German Road Traffic Licensing Authority).

2.1 Excerpt from ECE regulation 122 (heating system) paragraph 5 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.

BMW 4 Series

Information on Validity

This installation documentation applies to BMW 4 Series Diesel vehicles - for validity, see page 1 - from model year 2016 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 Information

Special Tools

- Hose clamp pliers for auto-tightening 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
- Deep-hole marker
- 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 water connection piece retaining plate 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



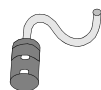
Electrical System



Coolant Circuit



Combustion Air



Fuel



Exhaust Gas



Software



Specific risk of damage to components.



Specific risk due to electrical voltage.



Specific risk of injury or fatal accidents.



Specific risk of fire or explosion.



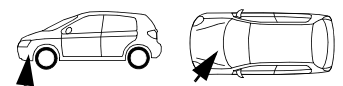
Reference to the manufacturer's vehicle-specific documents or to the general installation instructions of Webasto components.



Reference to a special technical feature.



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



Tightening torque according to the manufacturer's vehicle-specific documents.



Preliminary Work

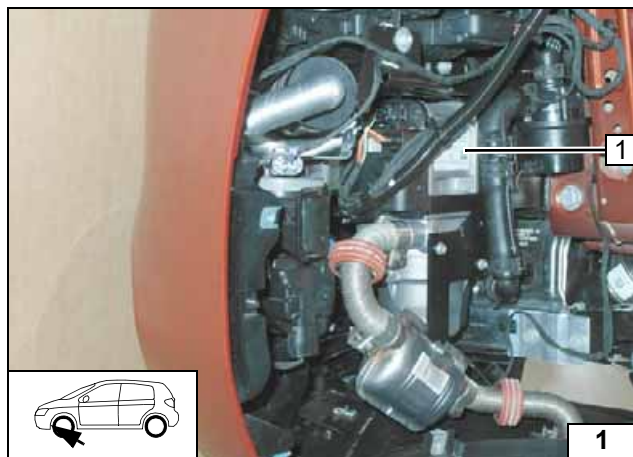
Vehicle



- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect the battery.
- Remove the electrical box.
- Remove the air filter completely, together with the intake hose.
- Remove the windscreen wipers.
- Remove the coolant reservoir cap.
- Remove the lower engine cover.
- Remove the right and left front wheel.
- Remove the front parts of the wheel well trim on the left and on the right.
- Remove the rear part of the wheel well trim at the front on the right.
- Remove the underride protection on the right.
- Remove the middle underride protection.
- Remove the bumper.
- Remove the lower footwell trim on the front passenger's side.
- Remove the glove box.
- Remove the rear bench seats.
- Open the right-hand tank-fitting service lid.

Heater

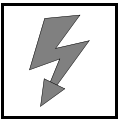
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



Heater Installation Location

- 1 Heater

Installation location

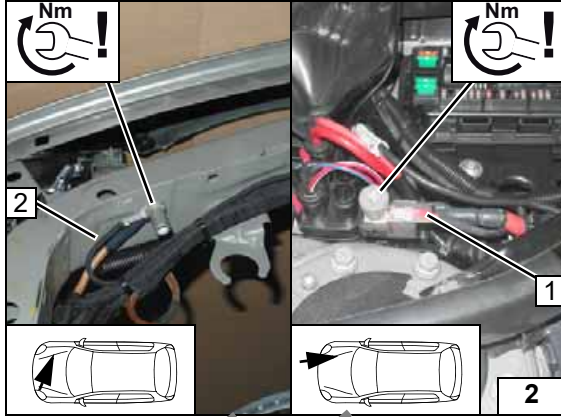


Electrical System



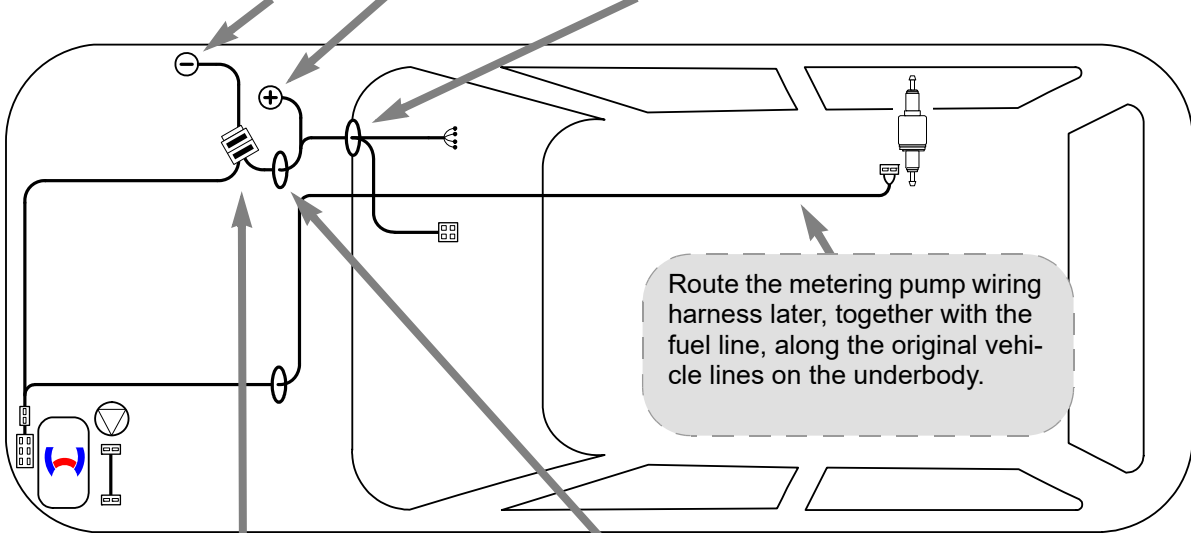
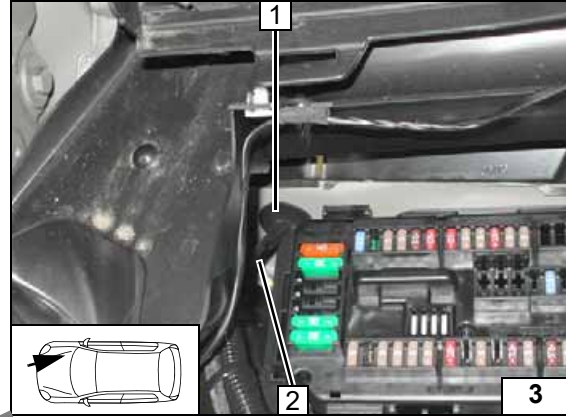
Positive and earth wire

- 1 Positive wire on original vehicle positive support point
- 2 Earth wire on original vehicle earth support point

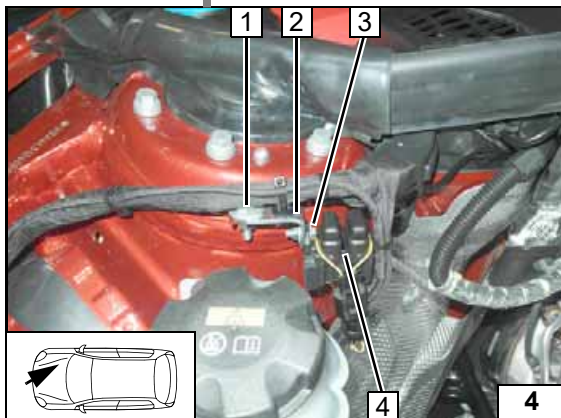


Wiring harness pass through of passenger compartment

- 1 Protective rubber plug
- 2 Wiring harnesses of heater, heater control

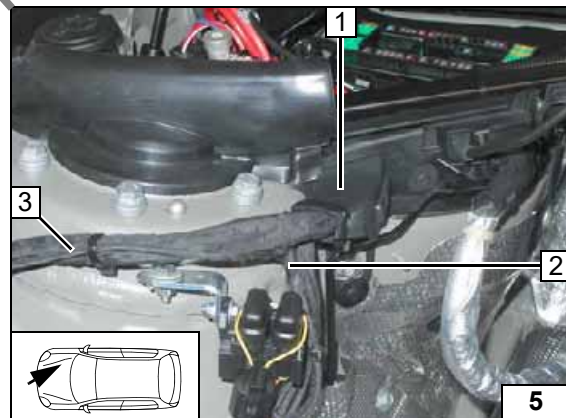


Wiring harness routing diagram



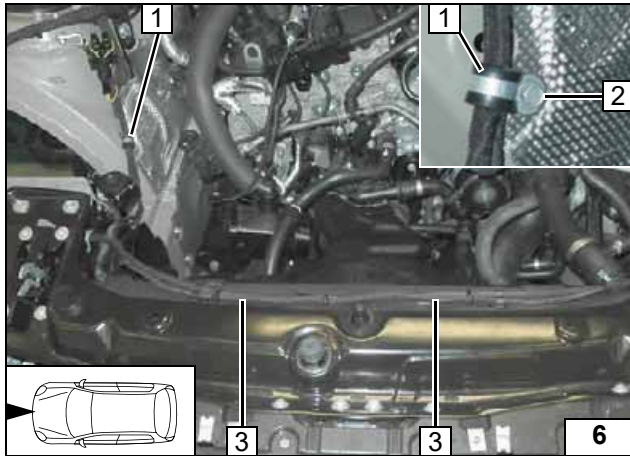
Engine compartment fuse holder

- 1 M6x20 bolt, large diameter washer, original vehicle hole, flanged nut
- 2 Angle bracket
- 3 M5x16 bolt, large diameter washer [2x], retaining plate of fuse holder, nut
- 4 Fuses F1-2



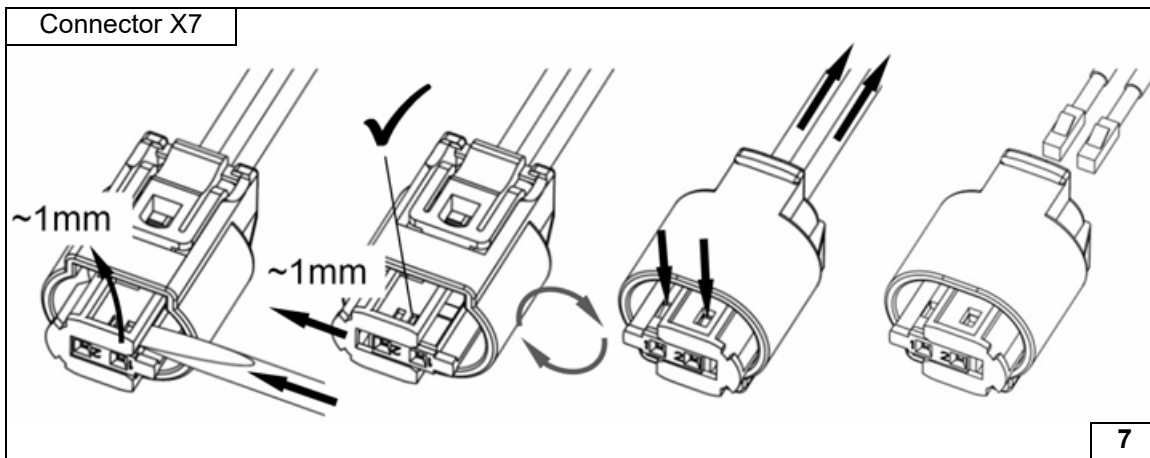
Coolant reservoir wiring harness pass through

- 1 Coolant reservoir pass through
- 2 Route positive wire, fan controller and heater control wiring harness in the coolant reservoir
- 3 Earth wire

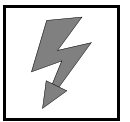


- 1 15mm dia. rubber-coated p-clamp
- 2 Original vehicle bolt
- 3 Route wiring harness along original vehicle lines to the right side of the vehicle

Routing heater wiring harness



Dismantling metering pump connector



Air-Conditioning Control for All Vehicles

! Connect the A/C control in accordance with the separate installation documentation:

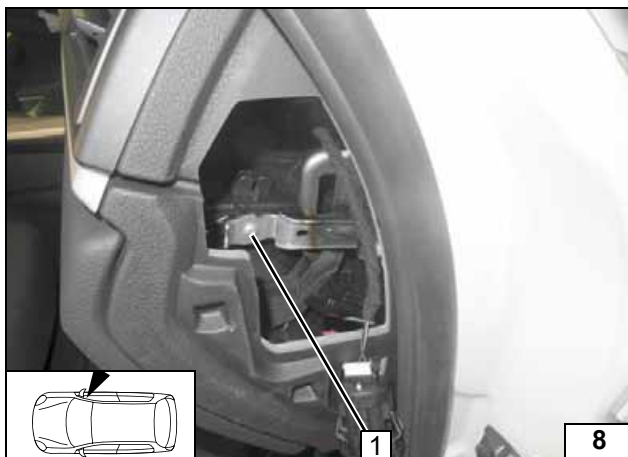
Installation documentation of **'Webasto Comfort'** A/C control for BMW 1 Series, 3 Series and 4 Series with AAC



Cold Start System Installation

! Integrate the cold start system as explained in the separate installation documentation:

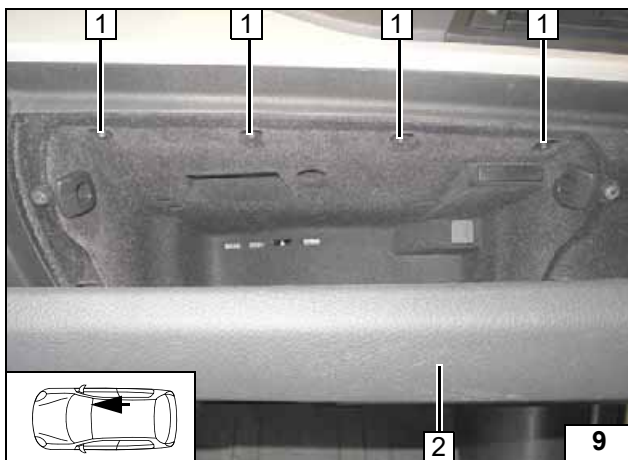
Cold start system installation documentation for BMW 4 Series



Glove Box Dismantling Instructions

1 Bolt

Removing bolt



Open glove box cover 2.

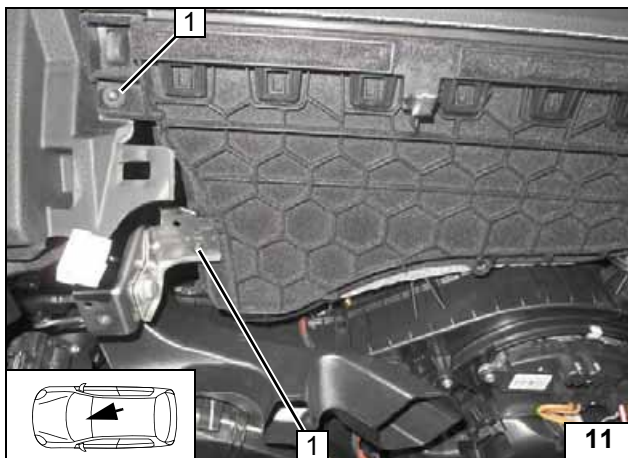
1 Bolts [4x]

Removing bolts



1 Remove original vehicle bolts [2x]

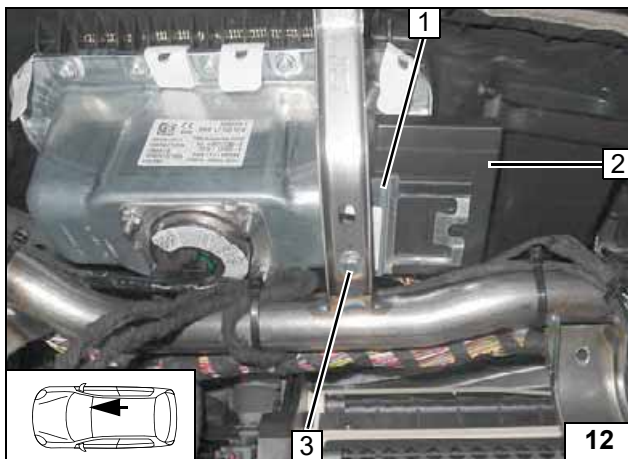
Removing bolts



1 Original vehicle bolts [2x]



Removing bolts

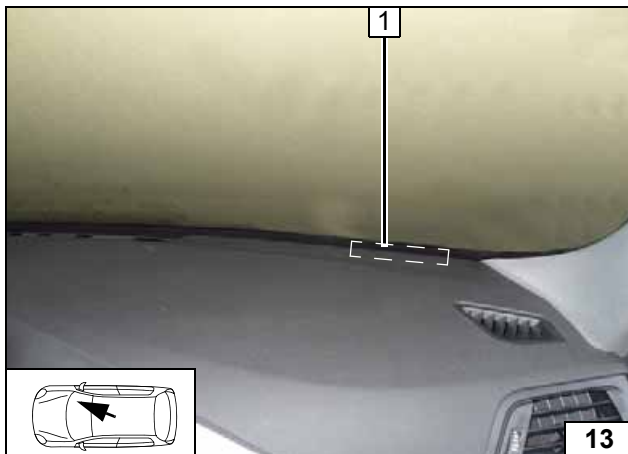


Remote Option (Telestart)

- 1 Receiver bracket
- 2 Receiver
- 3 M5x16 bolt, large diameter washer, original vehicle hole, flanged nut

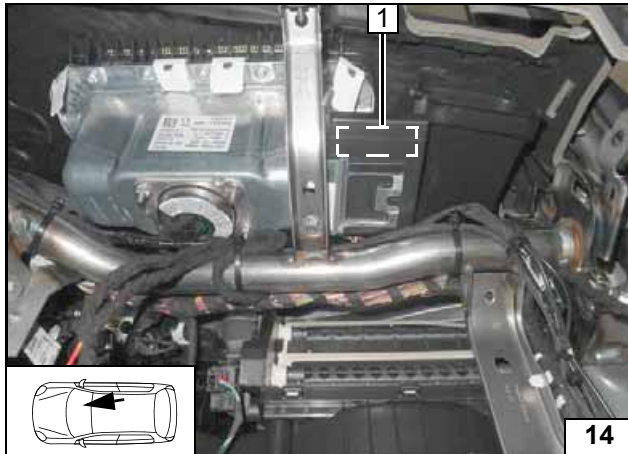
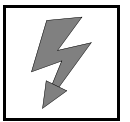


Installing receiver



1 Aerial

Installing aerial

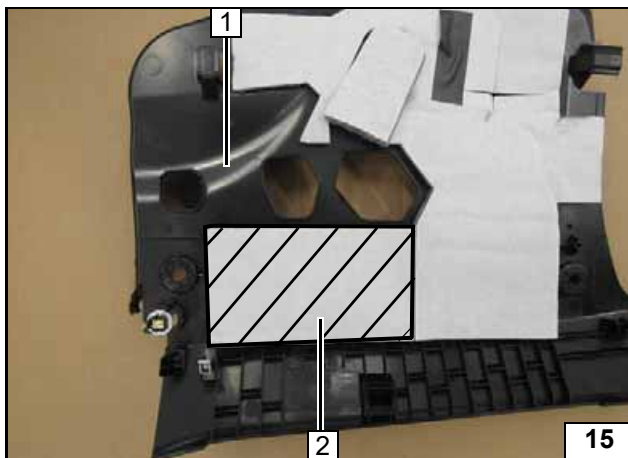


Temperature sensor T100 HTM

Fasten temperature sensor 1 (hidden) with double-sided adhesive tape.



Installing temperature sensor



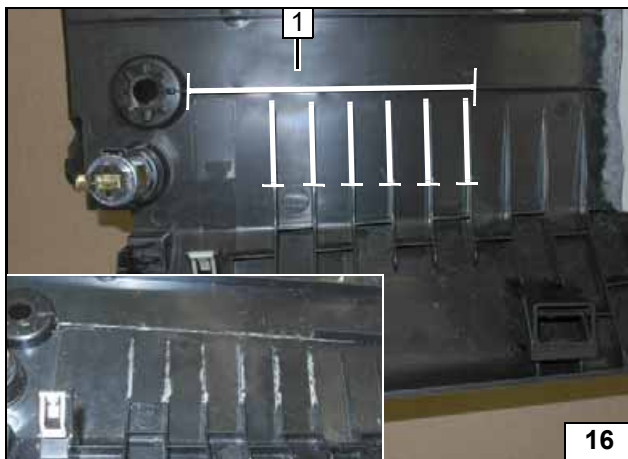
ThermoCall Option

Remove marked section 2 of sound insulation.

- 1 Lower footwell trim on the front passenger's side



Adapting lower trim



Cut off marked ribs of trim flush with surface.

- 1 Lower footwell trim on the front passenger's side



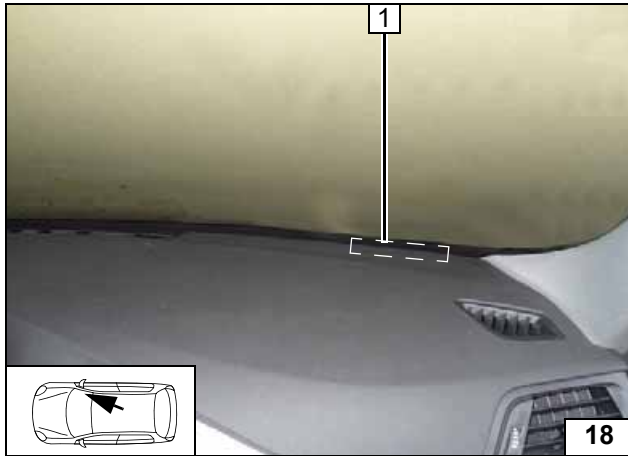
Installing receiver



Fasten receiver 1 with double-sided adhesive tape.

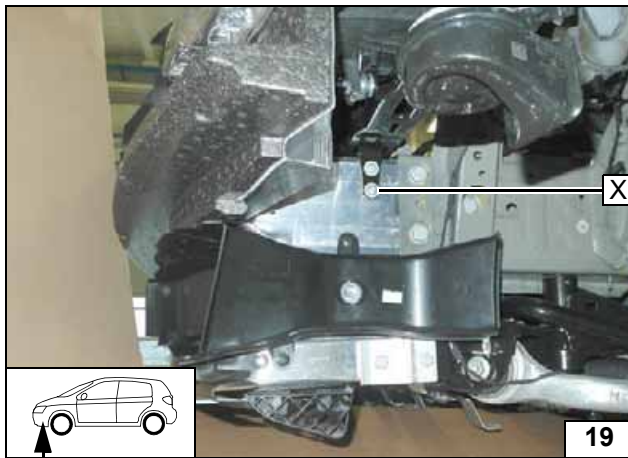


Installing receiver



1 Aerial (optional)

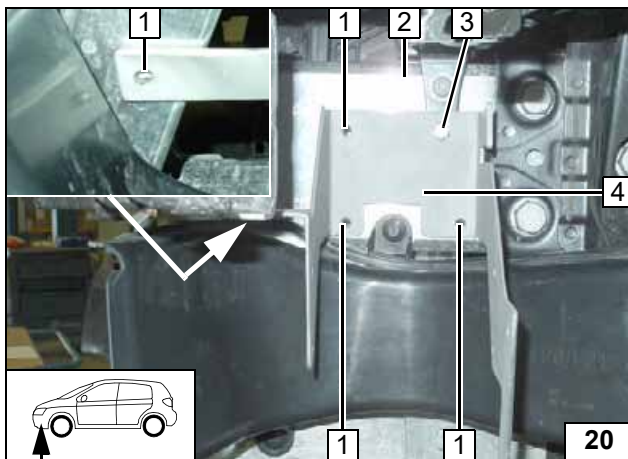
Installing aerial



Preparing Installation Location

X =

Removing bolt

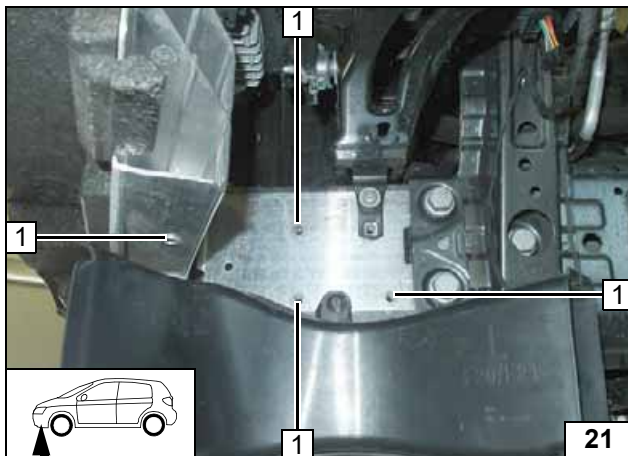


Align bracket 4 parallel with frame side member 2.

- 1 Hole pattern [4x]
- 3 M6x20 bolt

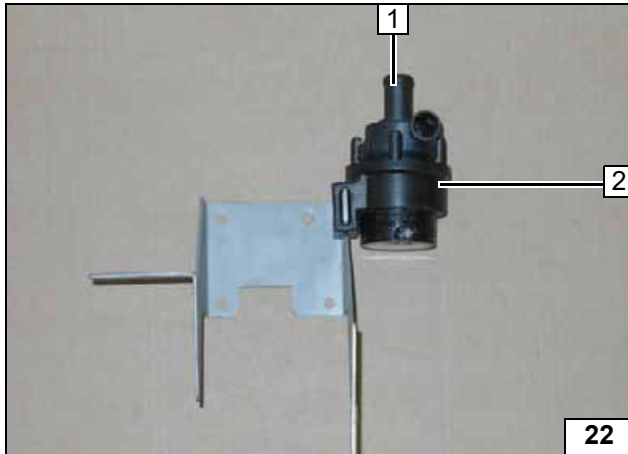
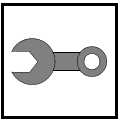


Copying hole pattern



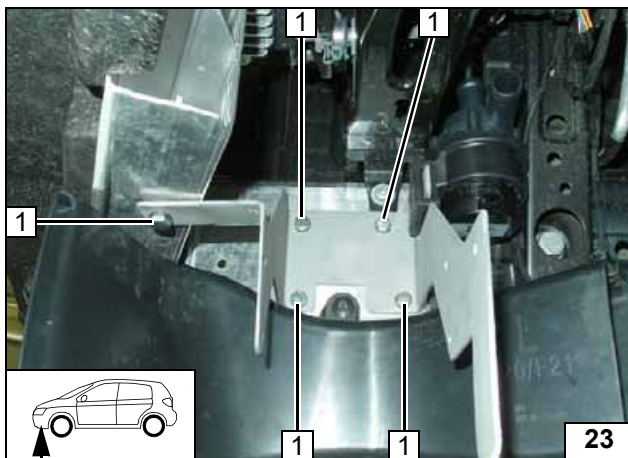
- 1 9mm dia. hole, rivet nut [4x each]

Installing rivet nut



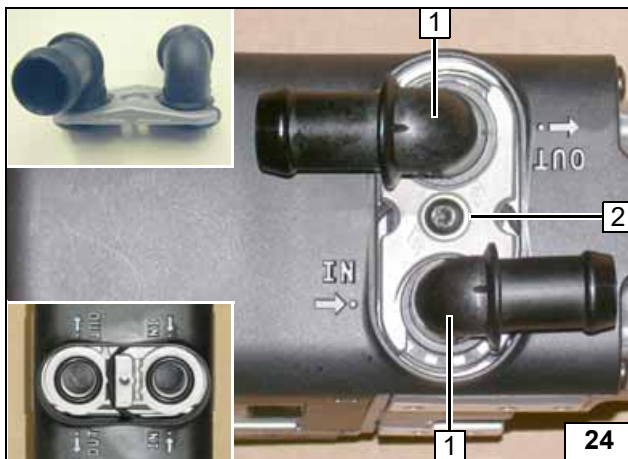
- 1 Circulating pump
- 2 Circulating pump mount

Premounting bracket



- 1 M6x20 bolt, spring lockwasher [5x each]

Installing bracket

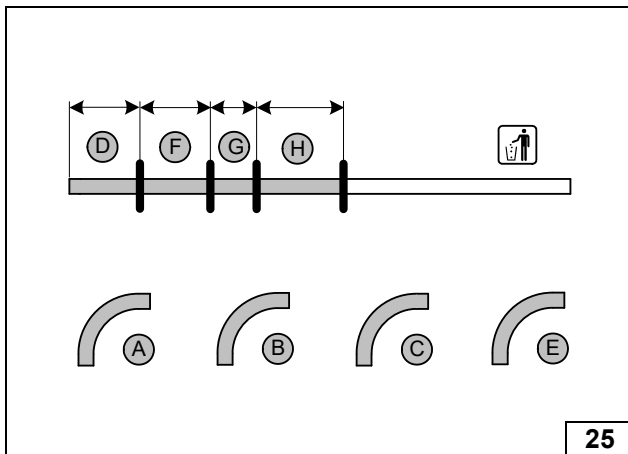


Preparing Heater

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

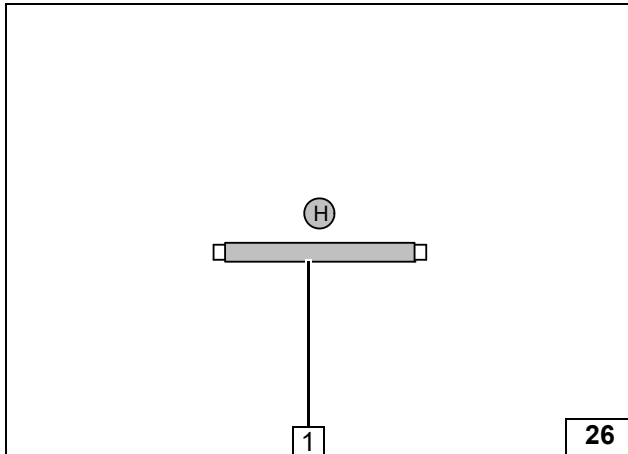
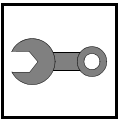


Installing water connection piece



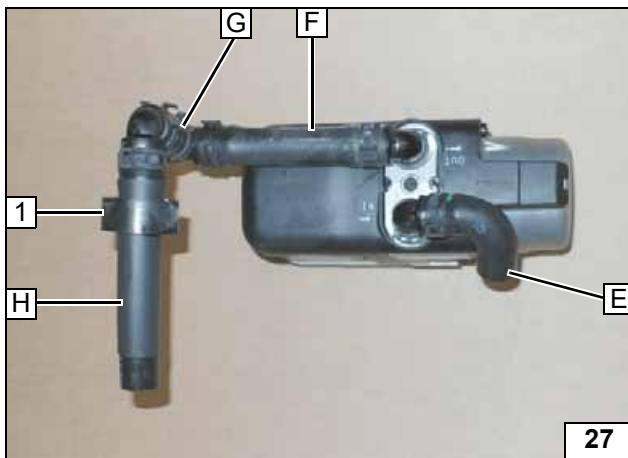
- A =90°, 18mm dia.
- B =90°, 18mm dia.
- C =90°, 18mm dia.
- D = 110
- E =90°, 18mm dia.
- F = 130
- G = 80
- H = 180

Cutting hoses to length



- 1 100mm long heat shrink plastic tubing

Preparing hose H

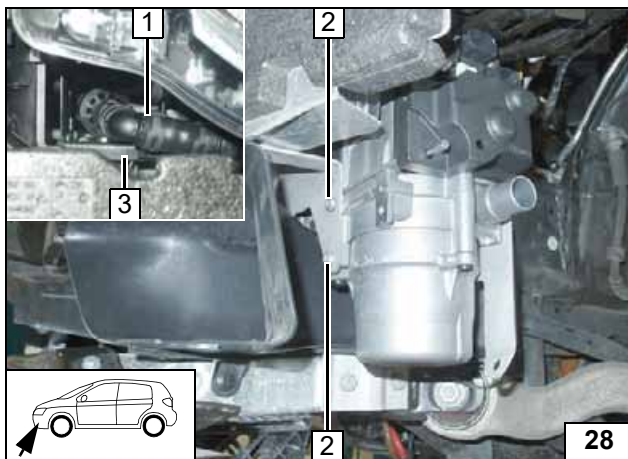


All spring clips = 25mm dia.
All connecting pipes = 18x18mm, 90°.



- 1 Black (sw) rubber isolator

Installing hoses



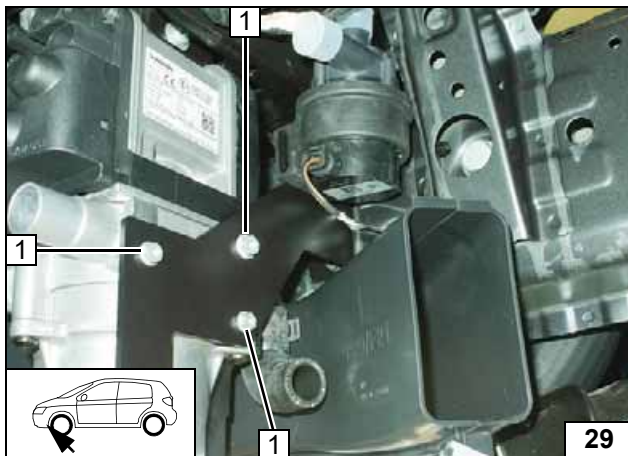
Installing Heater

Route hoses of heater outlet 1 as shown.



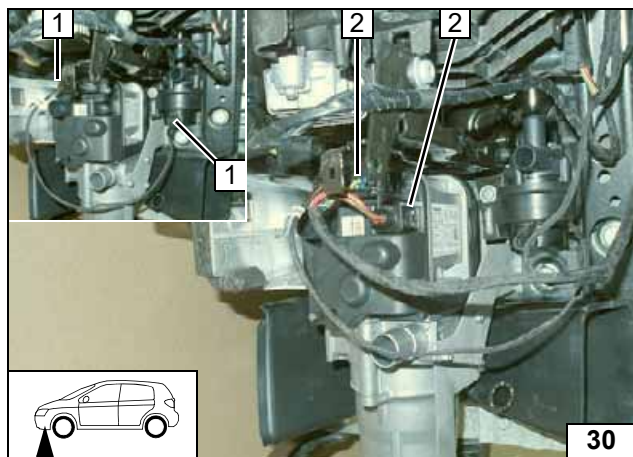
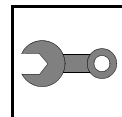
- 2 5x13 self-tapping bolt [2x]
- 3 100mm long edge protection

Installing heater



- 1 5x13 self-tapping bolt [3x]

Installing heater



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

Installing wiring harnesses



Fuel



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

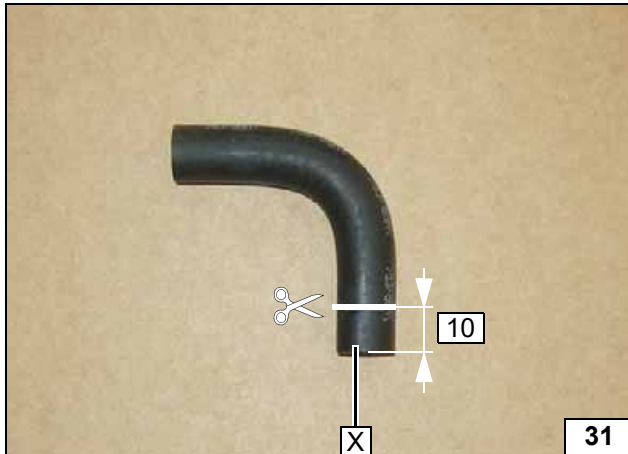
Catch any fuel running off in an appropriate container.



Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.

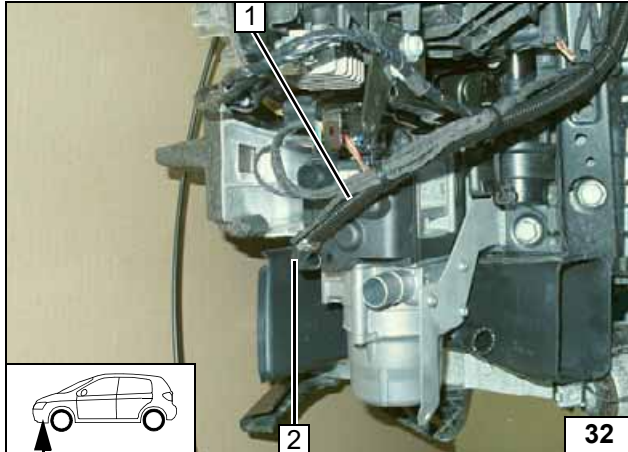
Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

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



X=

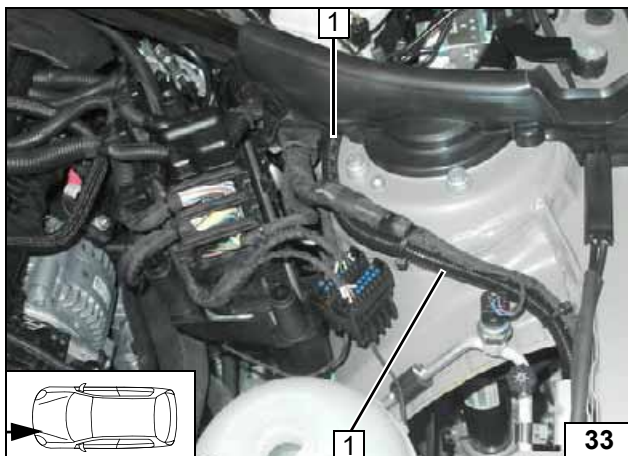
Shortening
90° mould-
ed hose



Pull wiring harness of metering pump and fuel line together into corrugated tube 1 and route in the engine compartment.

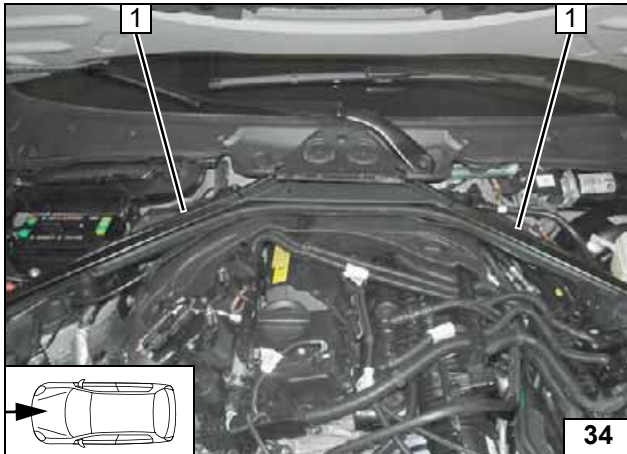
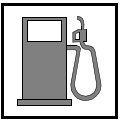
2 90° moulded hose with shortened side on heater, 10mm dia. clamp [2x]

Connect-
ing heater



Route corrugated tube 1 with fuel line and wiring harness of metering pump in the coolant reservoir.

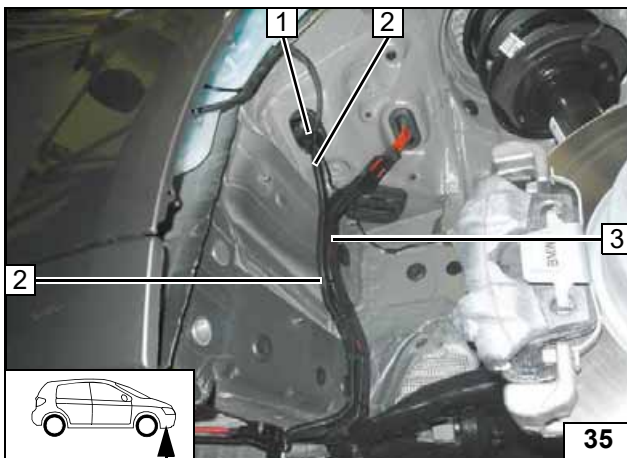
Routing
lines



Route corrugated tube **1** with fuel line and wiring harness of metering pump on the strut to the right side of the vehicle, fasten with cable ties.



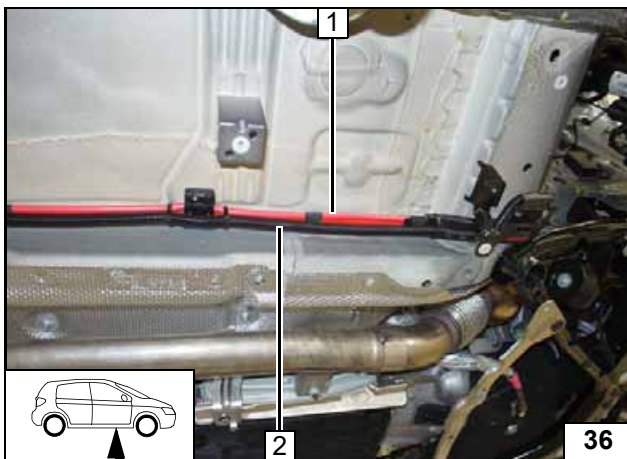
Routing lines



Route corrugated tube **2** with fuel line and wiring harness of metering pump through original vehicle grommet **1** in the wheel well and along original vehicle positive wire **3** to the underbody.



Routing lines



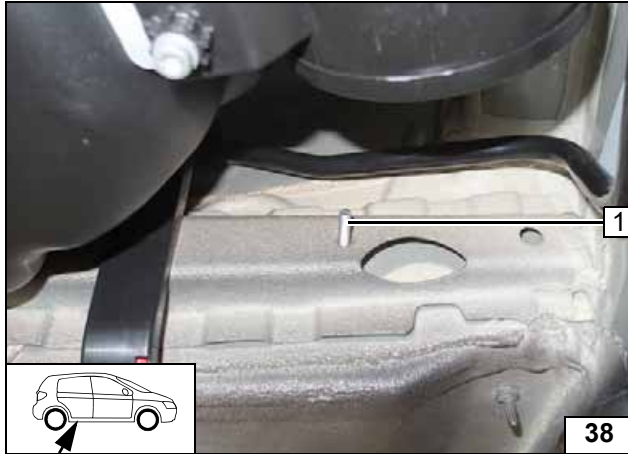
Route corrugated tube **2** with fuel line and wiring harness of metering pump along original vehicle positive wire **1** to the installation location of the metering pump.



Routing lines

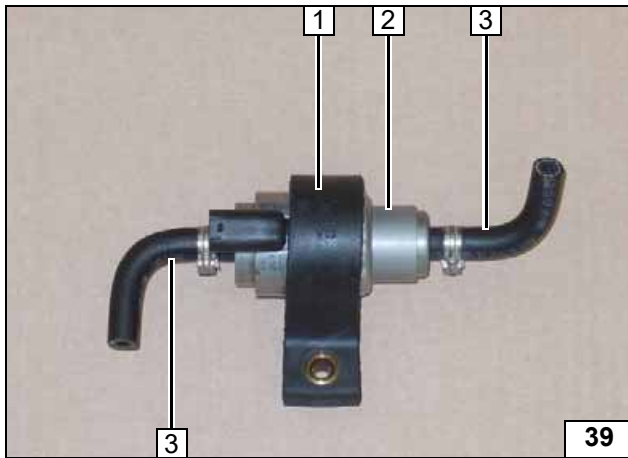


Routing lines



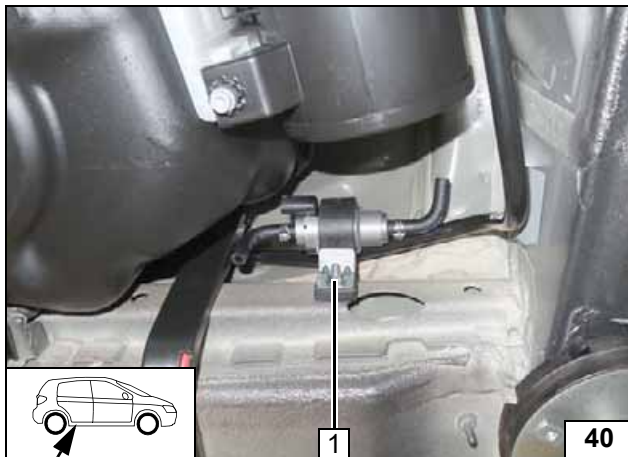
1 Original vehicle hole, M6x25 bolt

Inserting bolt into hole



1 Metering pump mount
2 Metering pump
3 90° moulded hose, 10mm dia. clamp [2x each]

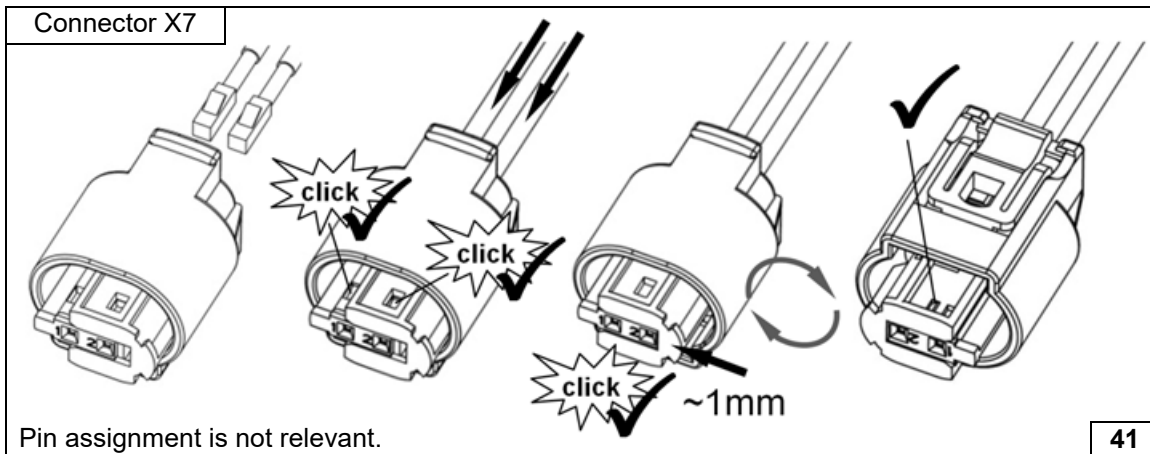
Premounting metering pump



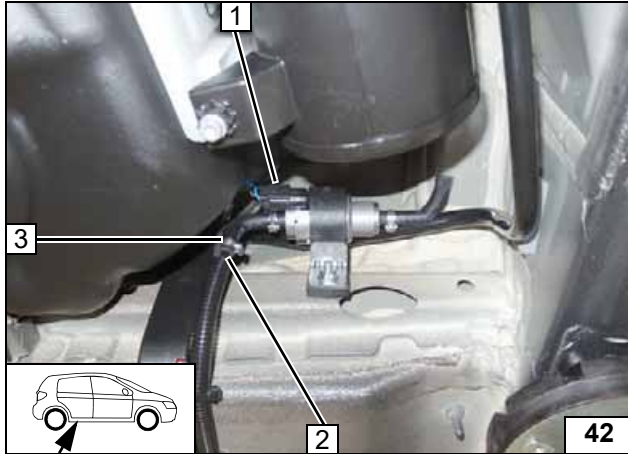
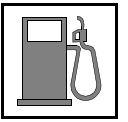
1 Support angle bracket, flanged nut



Installing metering pump



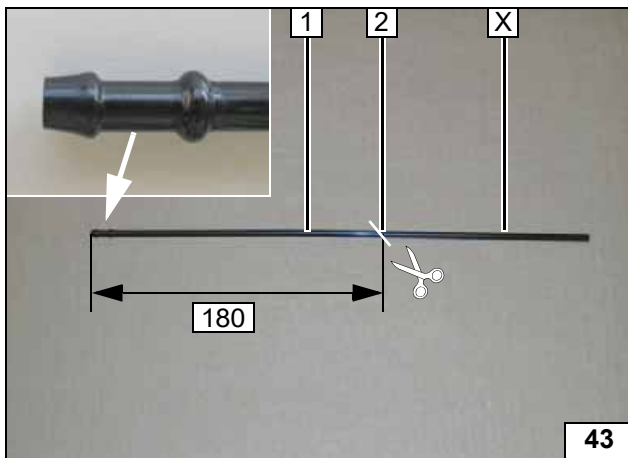
Completing metering pump connector



Ensure sufficient distance from neighbouring components, correct if necessary.

- 1 Metering pump wiring harness, connector X7 installed
- 2 Fuel line of heater
- 3 10 mm dia. clamp

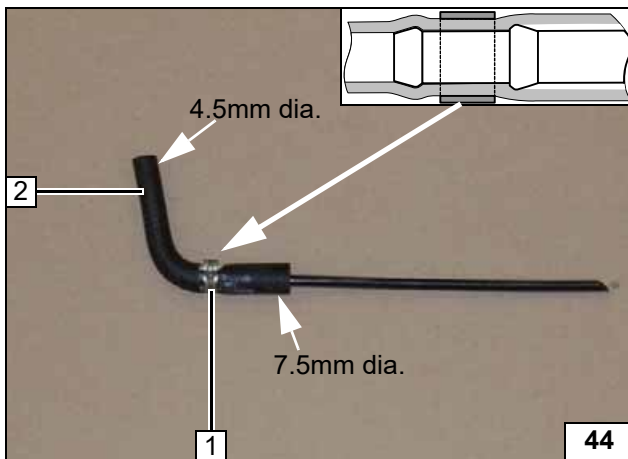
Connecting metering pump



- 1 Standpipe
- 2 Cutting point

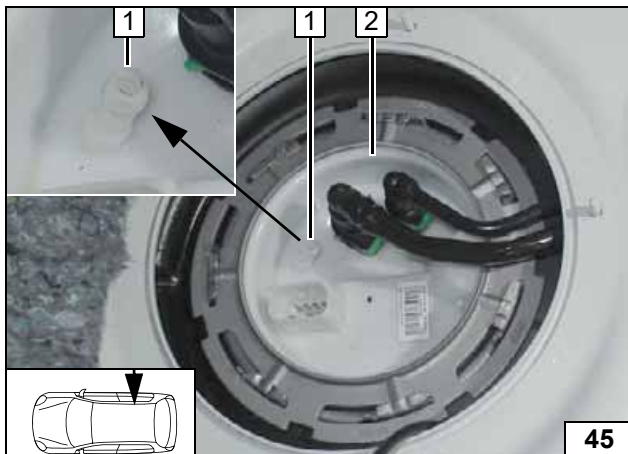
X =

Cutting standpipe to length



- 1 10 mm dia. clamp
- 2 90°, 4.5x7.5 moulded hose

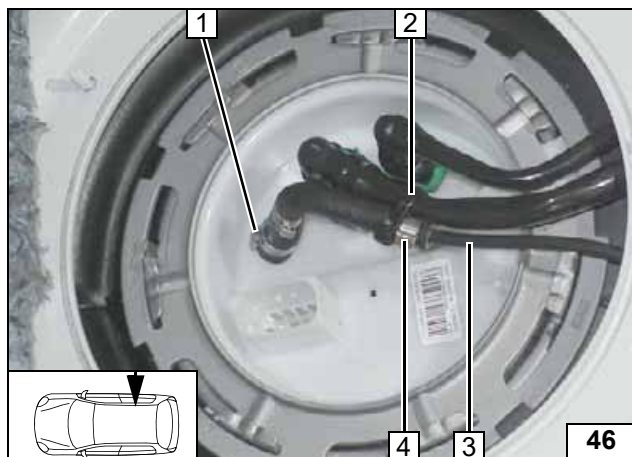
Premounting standpipe



Remove end cap from connection piece 1.

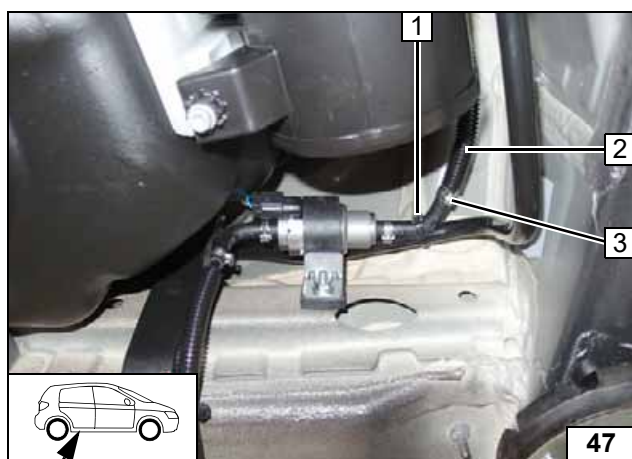
- 2 Fuel tank sending unit

Preparing fuel tank sending unit



- 1 13.5mm dia. clamp
- 2 Cable tie
- 3 Fuel line
- 4 10 mm dia. clamp

Installing standpipe

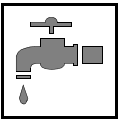


Ensure sufficient distance from neighbouring components, correct if necessary.

- 1 Cable tie
- 2 Fuel line in corrugated tube
- 3 10 mm dia. clamp



**Connect-
ing meter-
ing pump**

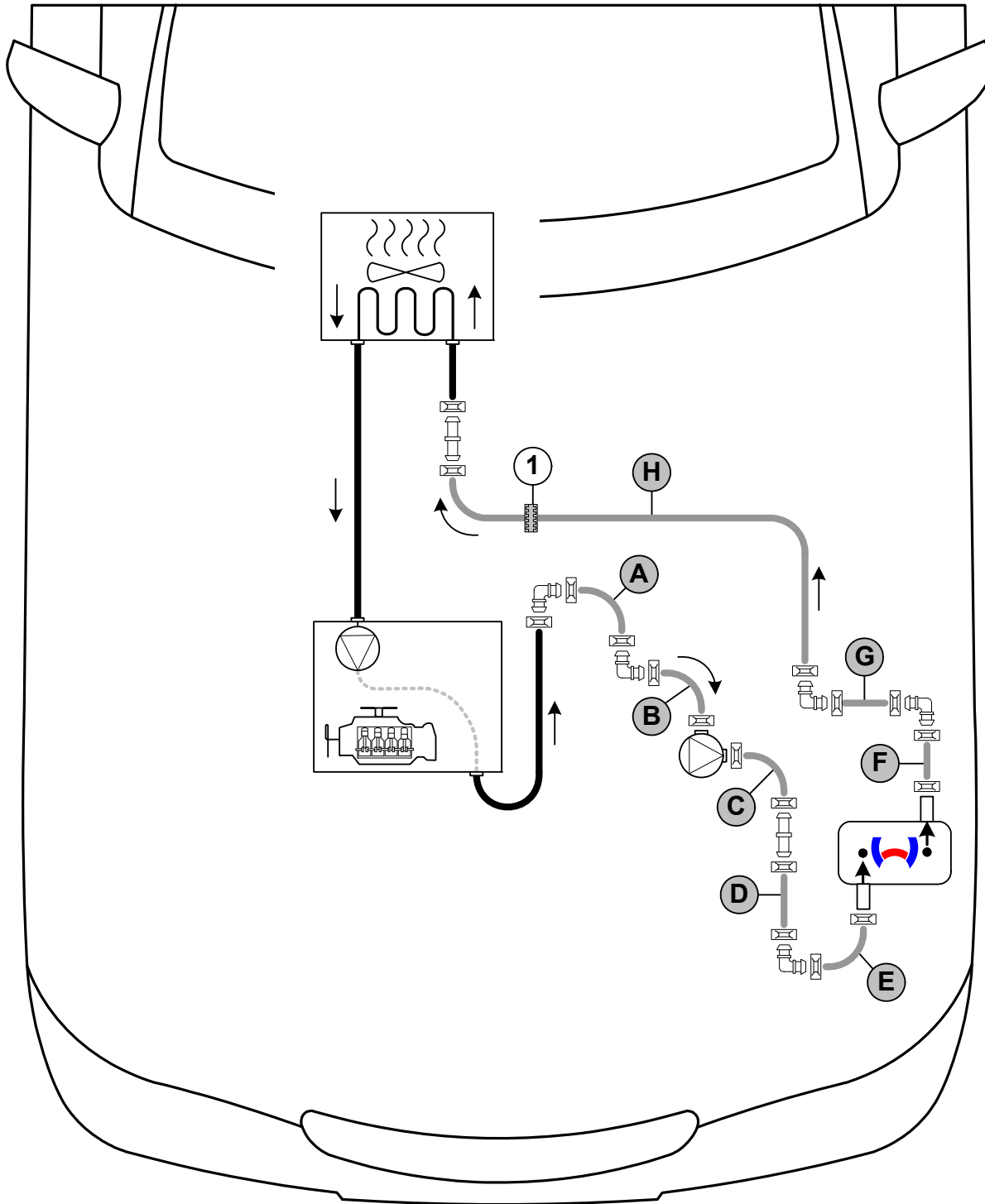


Coolant Circuit







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

The connection should be modelled on an 'inline' circuit and based on the following diagram:

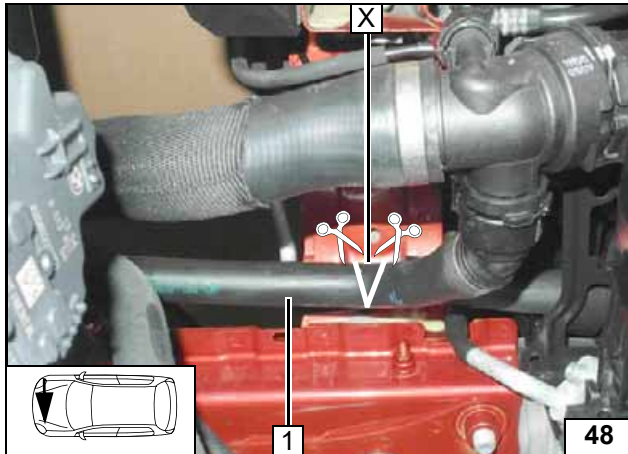


Hose routing diagram

All spring clips without a specific designation  = 25 mm dia. All connecting pipes  and  = 18x18 mm dia.


1 = Black (sw) rubber isolator .



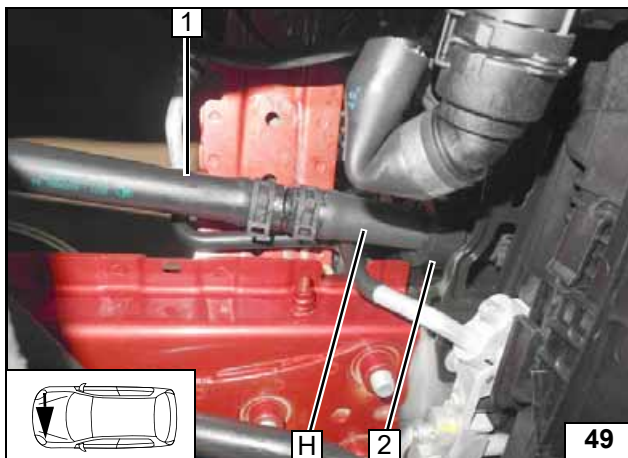


Cut hose of engine outlet / heat exchanger inlet 1 at the markings.



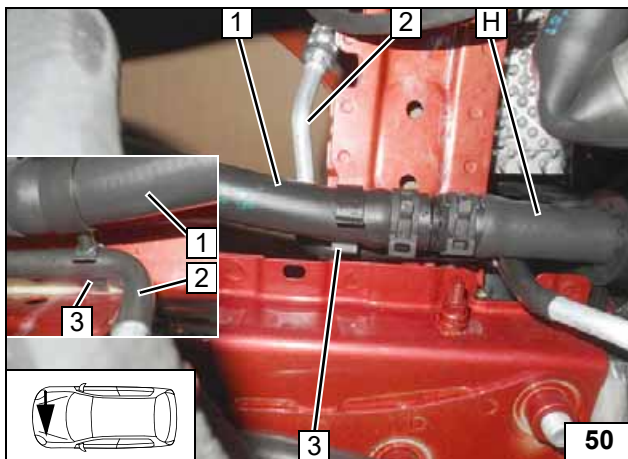
X = 

Cutting point



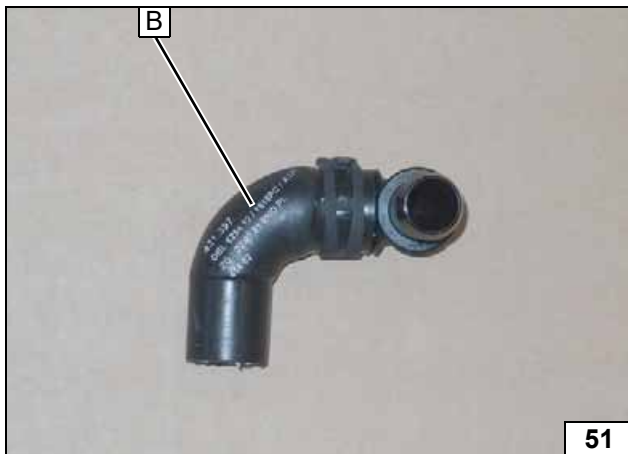
- 1 Heat exchanger inlet hose section
- 2 Black (sw) rubber isolator

**Connect-
ing heat ex-
changer
inlet**

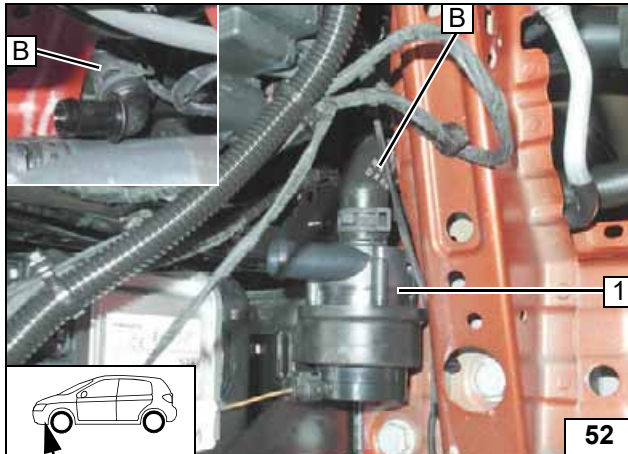


- 1 Heat exchanger inlet hose section
- 2 Original vehicle A/C line
- 3 8x22 hose bracket

**Installing
hose
bracket**

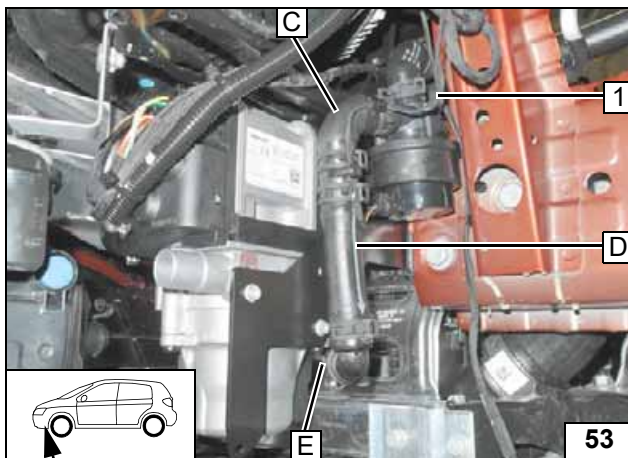


**Preparing
hose B**



1 Circulating pump

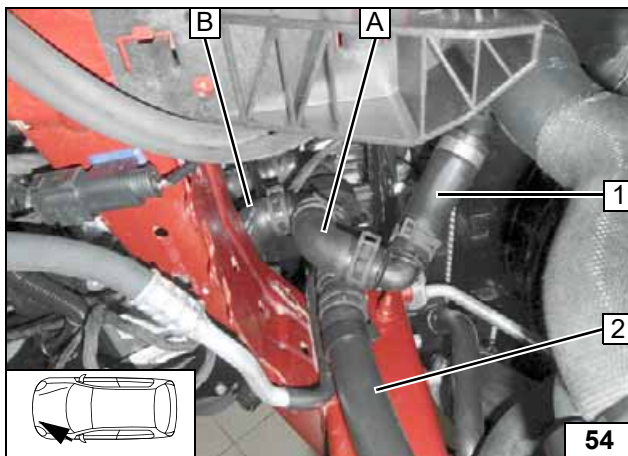
Installing hose B



Attach circulating pump wiring harness 1 using cable ties.

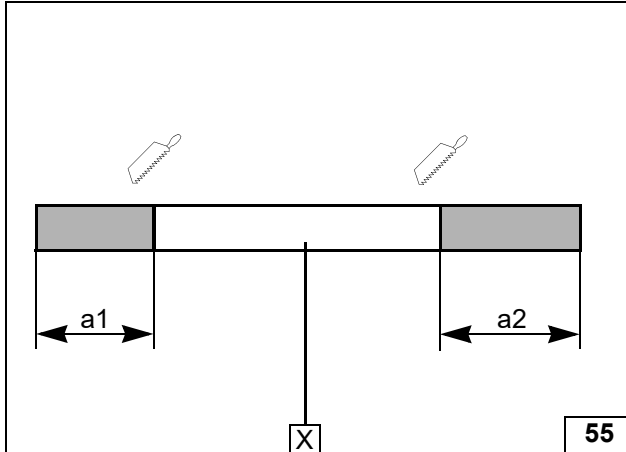
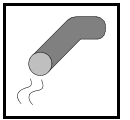


Connecting circulating pump



- 1 Engine outlet hose section
- 2 Heat exchanger inlet hose section

Connecting engine outlet

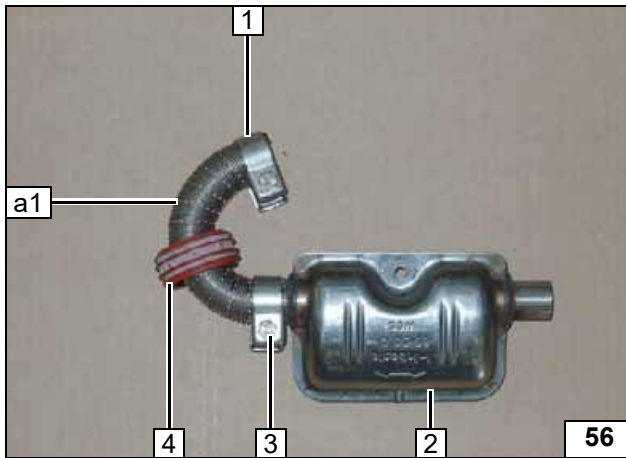


Exhaust Gas

$a1 = 150$
 $a2 = 160$

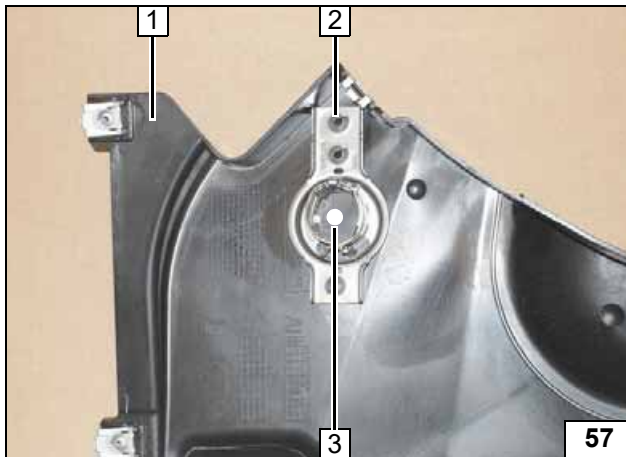
X =

Preparing exhaust pipes



- 1 Install hose clamp loosely
- 2 Silencer
- 3 Hose clamp
- 4 Spacer bracket

Premounting silencer



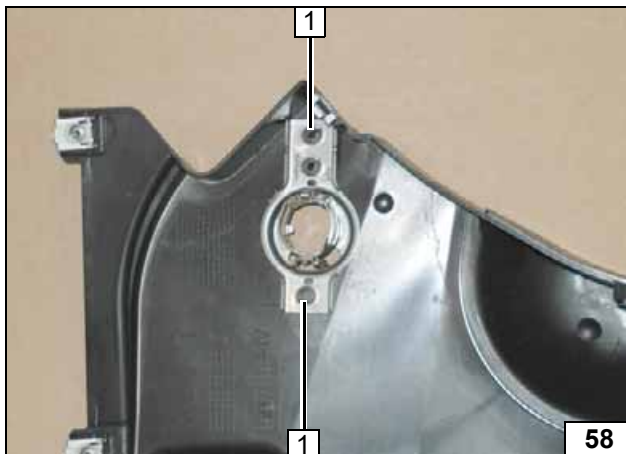
Installing Exhaust End Fastener



Work step E1.

- 1 Underide protection
- 2 Exhaust end fastener
- 3 Hole

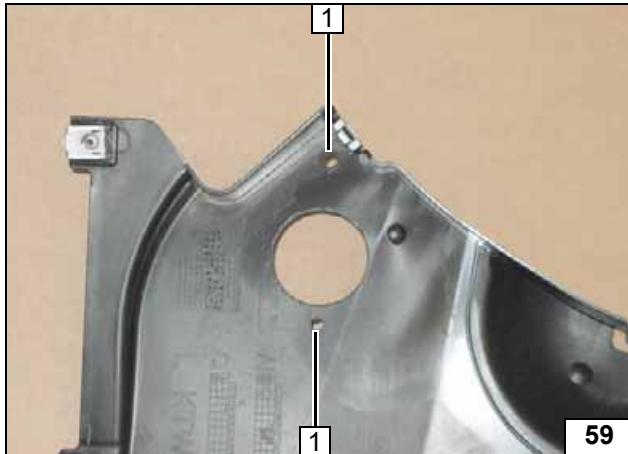
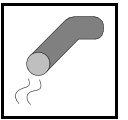
Hole in wheel-well inner panel



Work step E3.

- 1 Hole pattern [2x]

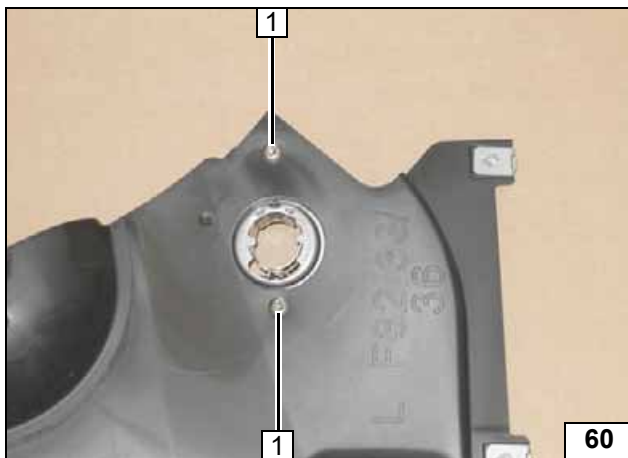
Copying hole pattern



Work step E4.

- 1 Hole [2x]

Holes in wheel-well inner panel



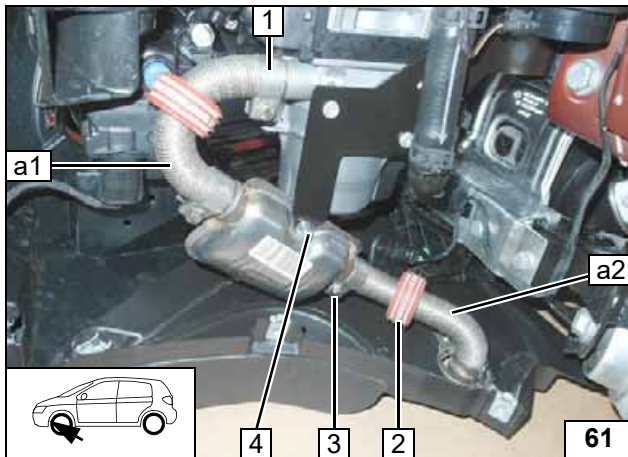
Work step E5.

- 1 5x13 self-tapping screw [2x]

Install front wheel well trim.



Installing exhaust end fastener



Ensure sufficient distance between front fog lights and spacer bracket, correct if necessary.

- 1 Tighten hose clamp
- 2 Spacer bracket
- 3 Hose clamp
- 4 M6x16 bolt, flanged nut



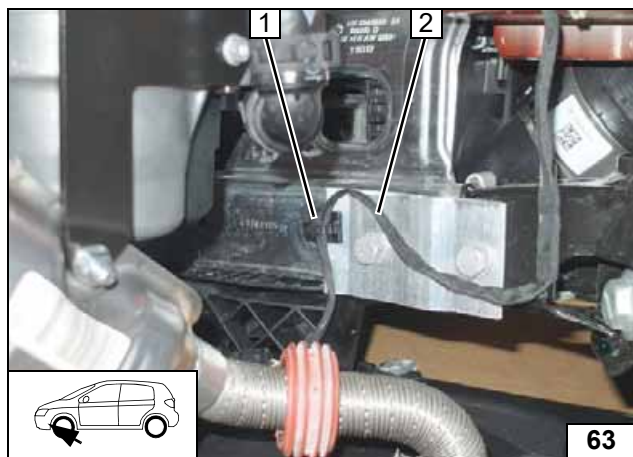
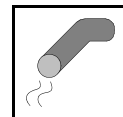
Installing silencer



Work steps E6 - E8.

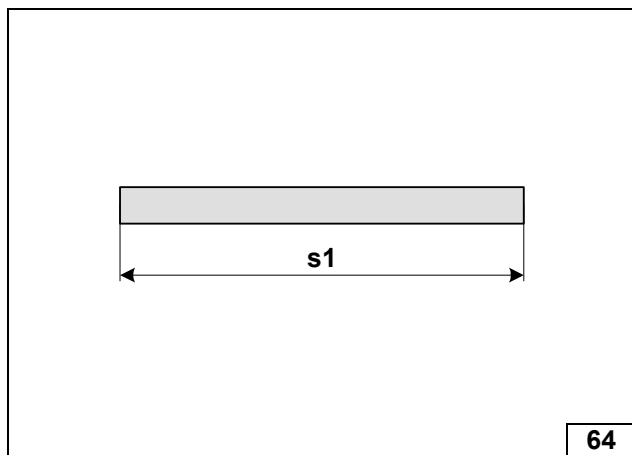
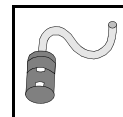


Installing exhaust pipe a2



- 1 Edge clip cable tie
- 2 Original vehicle temperature sensor wiring harness

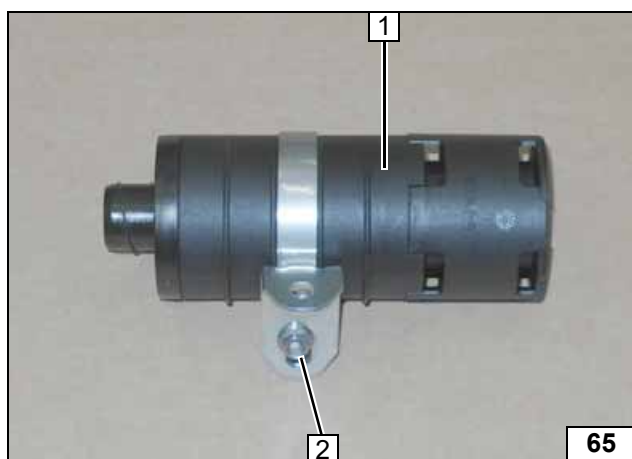
**Attaching
temperature
sensor wir-
ing harness**



Combustion Air

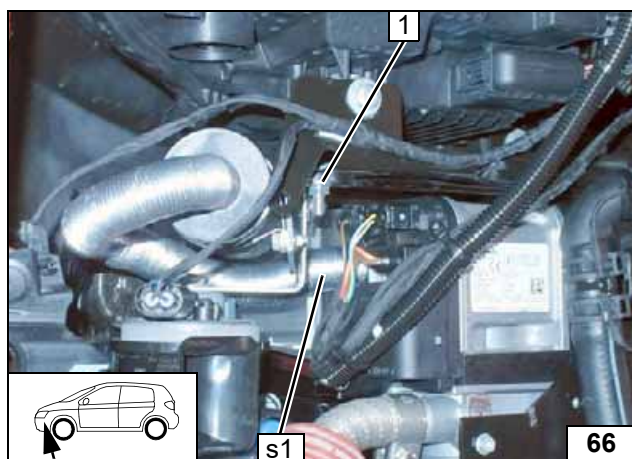
s1 = 400

View of combustion air pipe



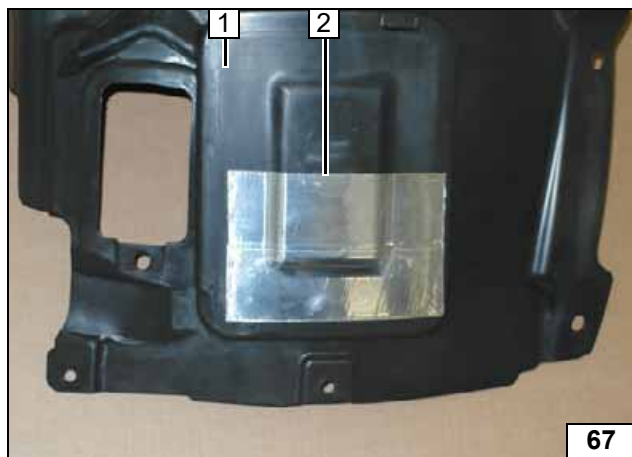
- 1 Silencer
- 2 M5x16 bolt, 51mm dia. clamp, angle bracket, flanged nut

Premounting silencer



- 1 M6x20 bolt, original vehicle hole, angle bracket, flanged nut

Installing combustion air pipe

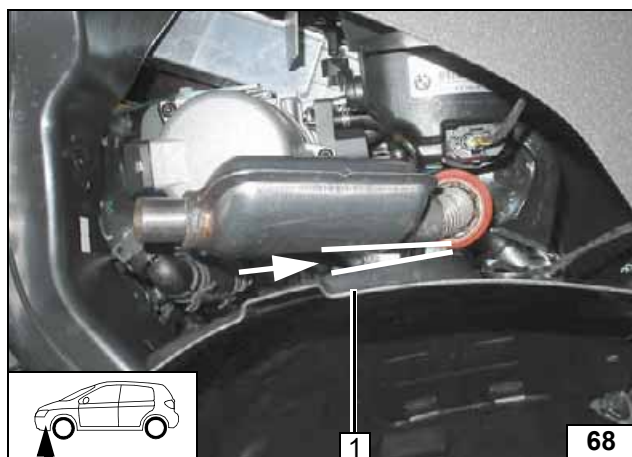


Final Work

Stick self-adhesive heat protection film 2 (separated into 2x 150x50) onto wheel-well inner panel 1 as shown!
Install wheel-well inner panel.



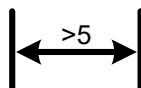
Preparing wheel-well inner panel



Front wheel well trim was removed for improved view.



1 Wheel-well inner panel



Installing wheel-well inner panel, checking distance



Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back loose lines. Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Teaching heater control
- For initial startup and function check, please see installation instructions.
- For the A/C control panel settings, see the installation documentation in the additional kit 'Webasto Comfort' A/C control, section 'Final Work'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.



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