



Water heater

Thermo Top Evo parking heater



Installation documentation Ford Edge

Validity

| Manufacturer | Model | Type | Model year | EG BE No. / ABE |
|--------------|-------|------|----------------------|----------------------------|
| Ford | Edge | SBF | From model year 2016 | e1 * 2007 / 46 * 1524 *... |

| Motorisation | Fuel | Emission standard | Transmission type | Output in kW | Displacement in cm ³ | Engine code |
|--------------|--------|-------------------|-------------------|--------------|---------------------------------|-------------|
| 2.0 TDCi | Diesel | Euro 6 | SG | 132 | 1998 | T8CM |
| 2.0 TDCi | Diesel | Euro 6 | SG | 154 | 1998 | T8CM |
| 2.0 TDCi | Diesel | Euro 6 | SG | 155 | 1998 | T9CE |

SG = manual transmission

Left-hand drive vehicle

Verified equipment variants: 2 zone automatic air-conditioning
2WD / 4WD
Start - Stop

Not verified: Passenger compartment monitoring

Total installation time: approx. 9 hours

Ford Edge

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Necessary components

| Designation | Order No.: |
|---|-------------------------------|
| Basic delivery scope of Thermo Top Evo | In accordance with price list |
| Installation kit for Ford Edge 2016 Diesel | 1325266A |
| Additional 'Webasto Standard' A/C control kit for Ford Mondeo / S-Max / Galaxy (CD4) / Ranger (T6) / Edge or Additional 'Webasto Comfort' A/C control kit for Ford Mondeo / S-Max / Galaxy (CD4) / Ranger (T6) / Edge | 1324011_ 1324050_ |
| In case of Telestart, control element, as well as indicator lamp in consultation with end customer | In accordance with price list |
| MultiControl CAR installation frame The installation location should be chosen together with the end customer in case of MultiControl CAR. | 9030077_ |

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.

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 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).

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

The initial start-up 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.

Ford Edge

Information on validity

This installation documentation applies to Ford Edge 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
- Hose clamping pliers
- Automatic wire stripper, 0.2 - 6mm²
- Crimping pliers for male connector, 0.14 - 6mm²
- Crimping pliers for cable lug, 0.5 - 10mm²
- Crimping pliers for connector, 0.25 - 6mm²
- Torque wrench for 2.0 - 10 Nm
- 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.

Mechanics



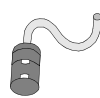
Electrics



Coolant circuit



Combustion air



Fuel



Exhaust gas



Software



Special features are highlighted using the following symbols:

Specific risk of damage to components.



Specific risk due to electrical voltage.



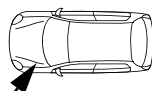
Specific risk of fire or explosion.



Reference to a special technical feature.



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



Reference to the manufacturer's vehicle-specific documents.



Reference to specific installation instructions of Webasto components (demonstrated with the example of the FuelFix).



Reference to general installation instructions of Webasto components.



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



Ford Edge

Preliminary work

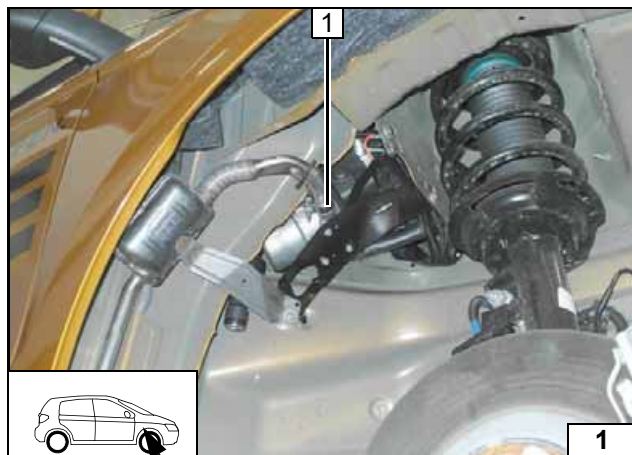
Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Remove the windscreen wipers.
- Remove the cover of the coolant reservoir and the coolant reservoir.
- Completely remove the air filter box.
- Disconnect and remove the battery together with the battery carrier.
- Remove the front underride protection (to drain the coolant).
- Remove the engine underride protection.
- Remove the left underbody protection.
- Remove the fuel tank underbody protection on the right and left.
- Remove the right front wheel.
- Remove the right wheel-well inner panel.
- Lower the exhaust pipe and middle silencer.
- Remove the fuel tank according to the manufacturer's instructions.
- Remove the lower footwell trim on the front passenger's side (only in case of Telestart and/or ThermoCall).
- Remove the trim strip and air outlet trim above the glove box (only in case of Telestart and/or ThermoCall).
- Remove the glove box (only in case of Telestart and/or ThermoCall).



Heater

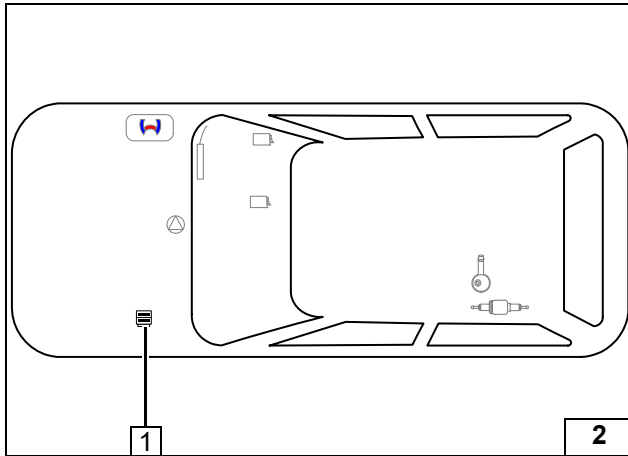
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



Heater installation location

- 1 Heater

Installation location

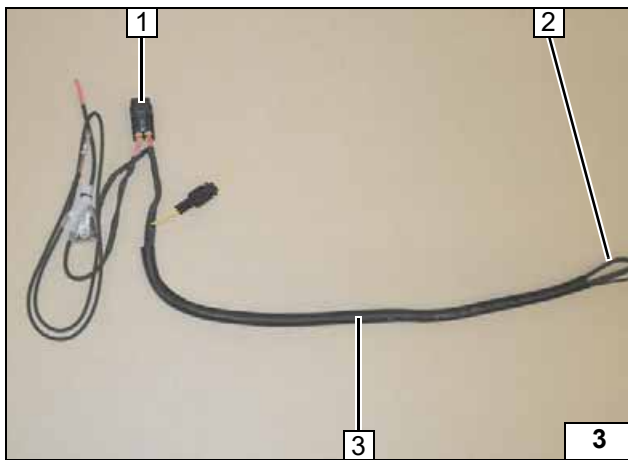


Preparing electrical system

- 1 Engine compartment fuse holder

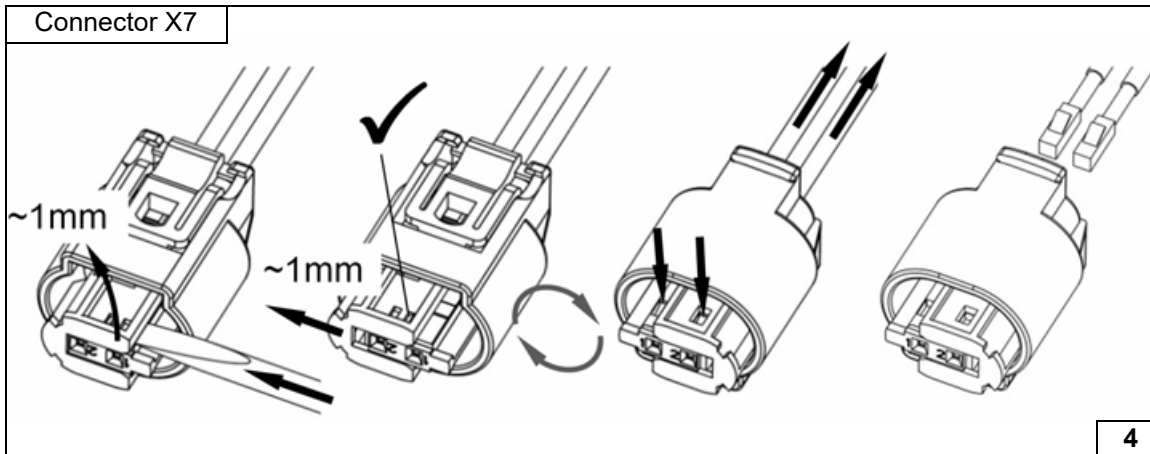


Installation overview



- 1 Fuses F1-2
- 2 Wiring harnesses of heater and control element
- 3 Ø13, 700 long slit open corrugated tube

Pulling wiring harnesses into corrugated tube



Dismantling metering pump connector

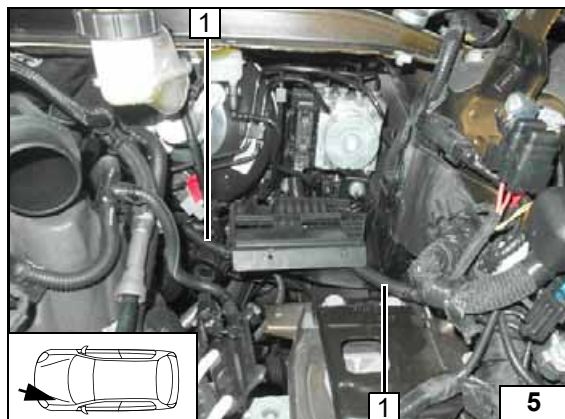


Electrical system

Wiring harness routing

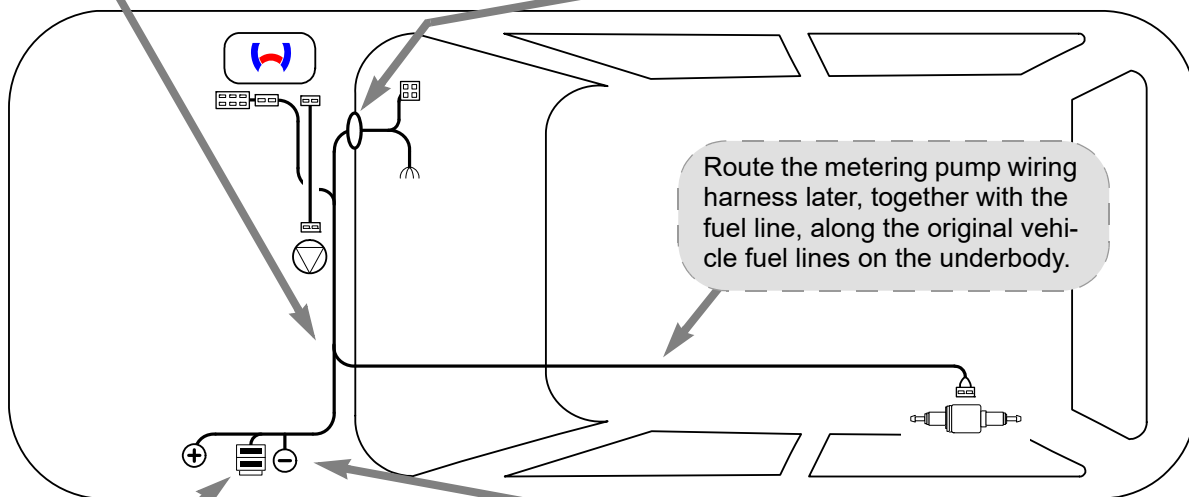
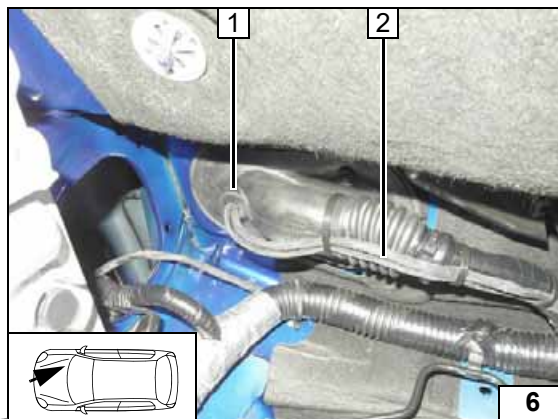


- 1 Wiring harnesses of heater, control element in corrugated tube

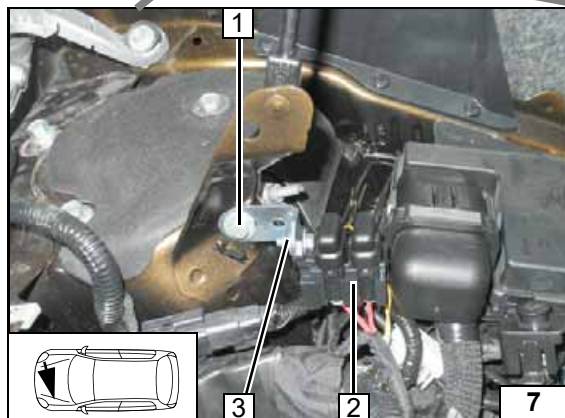


Wiring harness pass through

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



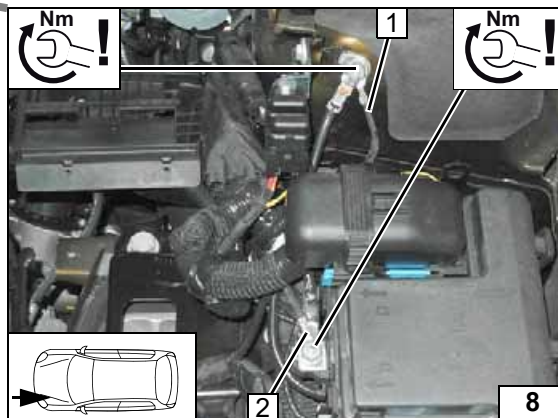
Wiring harness routing diagram



Engine compartment fuse holder

Replace 30A fuse F2 with 1A fuse only in case of 'Comfort' fan controller!

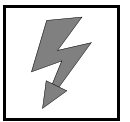
- 1 M6x12 bolt, large diameter washer, original vehicle hole, flanged nut
- 2 Fuses F1-2
- 3 M5x16 bolt, washer [2x], retaining plate of fuse holder, angle bracket, nut



Positive and earth wire

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





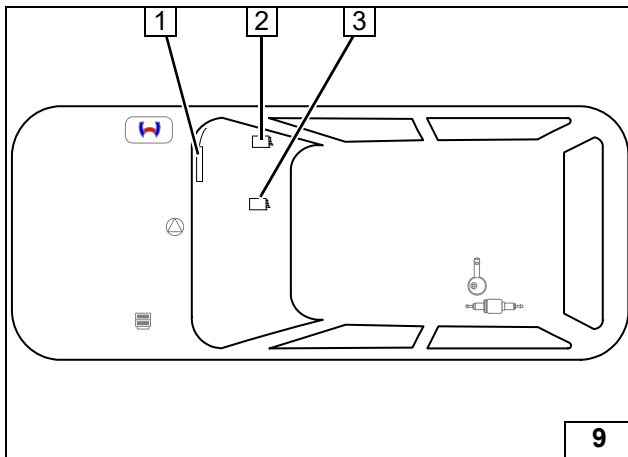
Air-conditioning control

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

Installation documentation **'Webasto Standard'** A/C control for Ford Edge

or

Installation documentation **'Webasto Comfort'** A/C control for Ford Edge

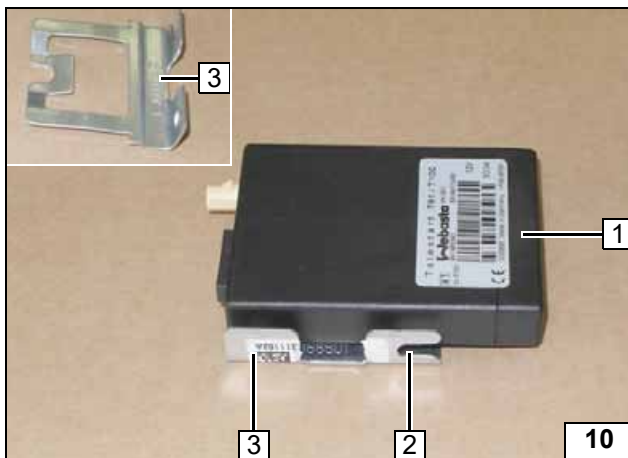


Installation of control elements

- 1 Telestart / ThermoCall aerial
- 2 Telestart receiver
- 3 ThermoCall receiver



Installation overview



Remote option (Telestart)

Bend receiver bracket 3 as shown!

- 1 Receiver
- 2 Bracket with oblong hole



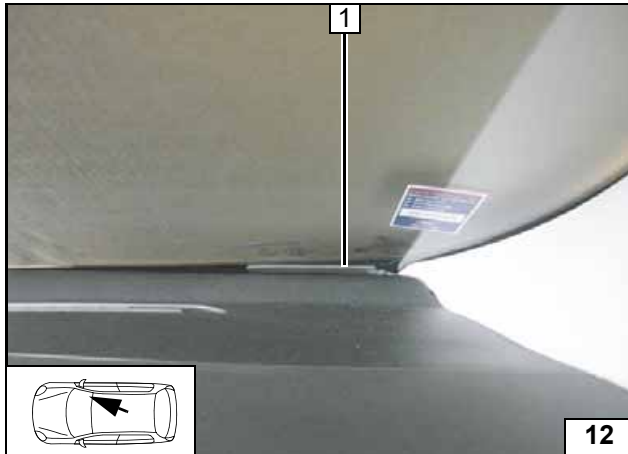
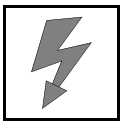
View of receiver with bracket



- 1 Receiver
- 2 Existing hole, M5x16 bolt, flanged nut

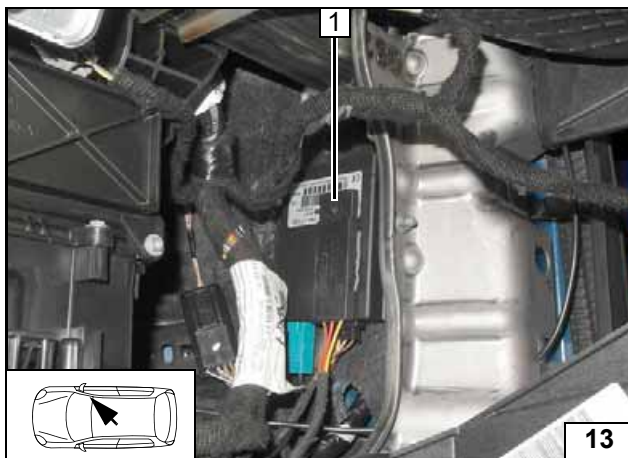


Installing receiver



1 Aerial

Installing aerial

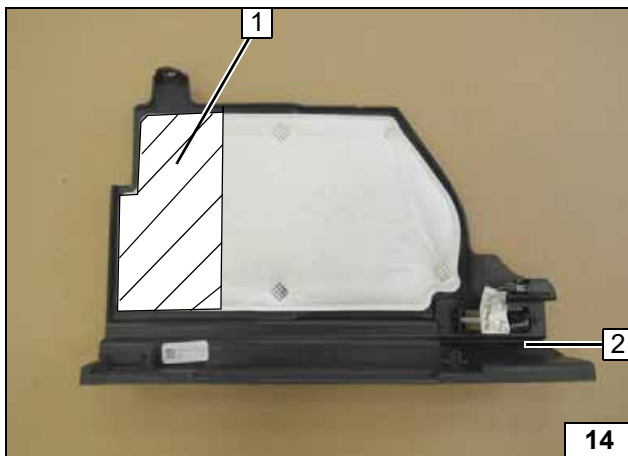


Temperature sensor T100 HTM

Fasten temperature sensor 1 with double-sided adhesive tape.



Installing temperature sensor

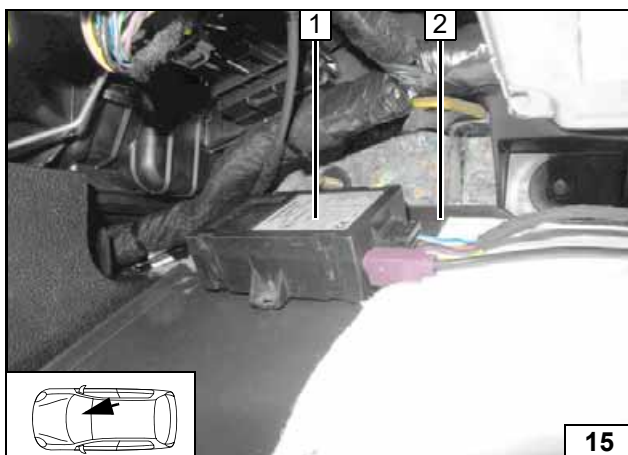


ThermoCall option

- 1 Insulation mat
- 2 Front passenger's side footwell trim



Removing insulation mat in shaded area

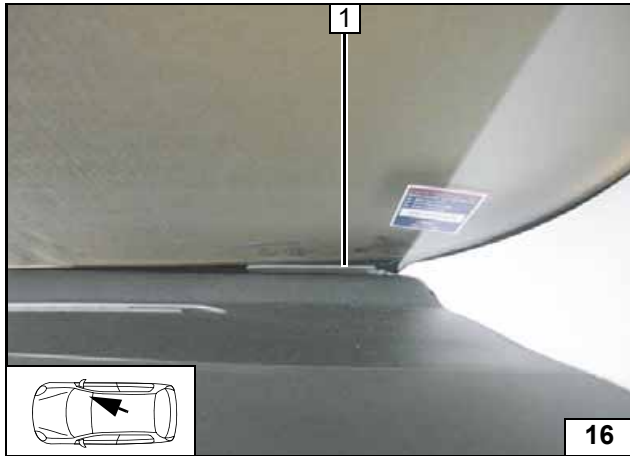


Position receiver 1 in front of fastening, ensure freedom of movement and fasten with double-sided adhesive tape.

- 2 Footwell trim

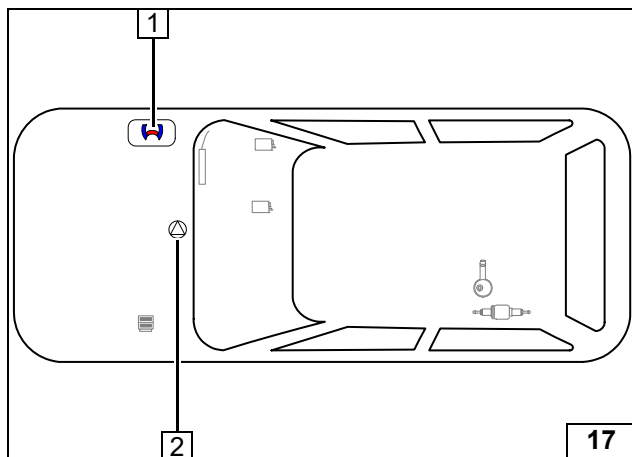
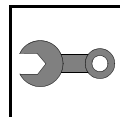


Installing receiver



1 Aerial

Installing
aerial

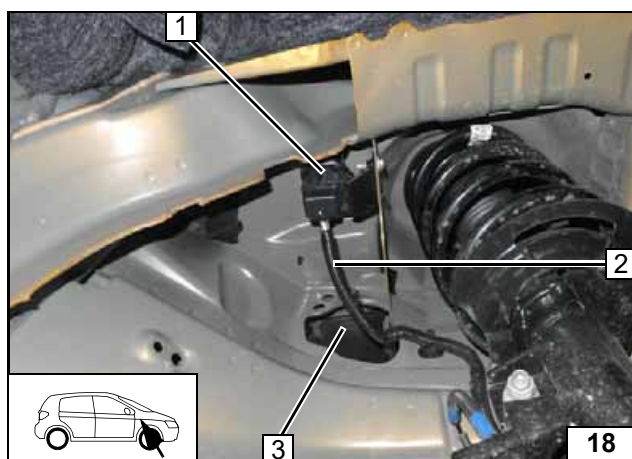


Preparing installation location

- 1 Heater
- 2 Circulating pump



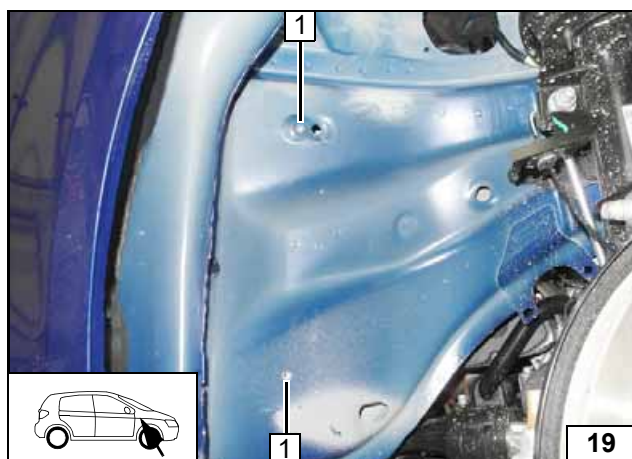
Installation overview



Remove original vehicle relay 1 and route with wiring harness 2 through opening 3 in the engine compartment.

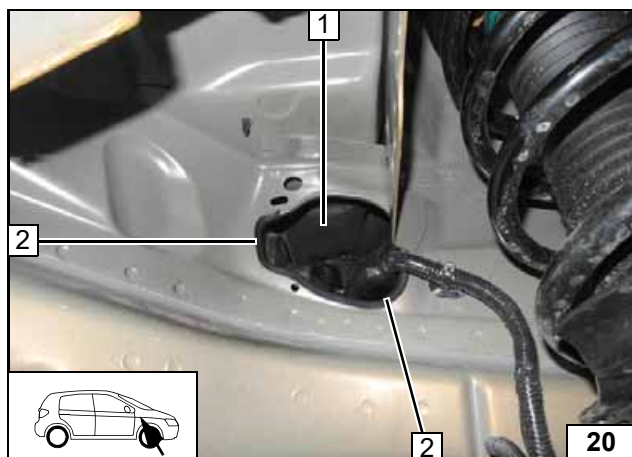


Removing original vehicle relay



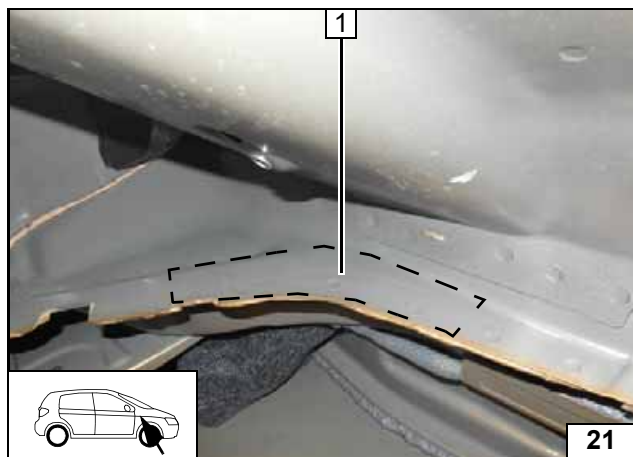
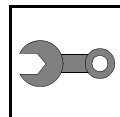
- 1 Rivet nut, existing hole [2x each]

Installing rivet nuts



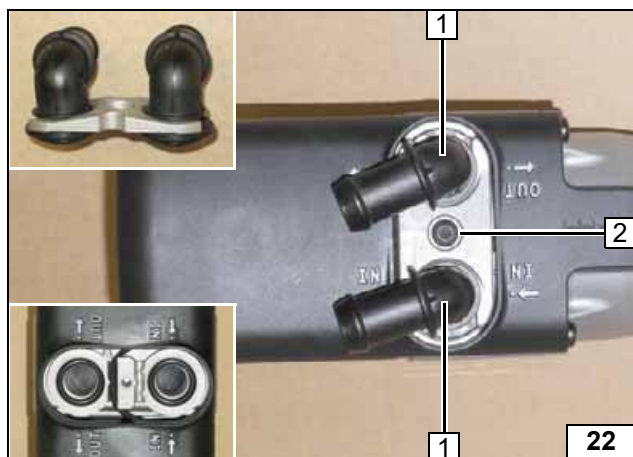
- 1 Pass through
- 2 Edge protection

Mounting edge protection



1 Area for fastening adhesive base

Cleaning body surface

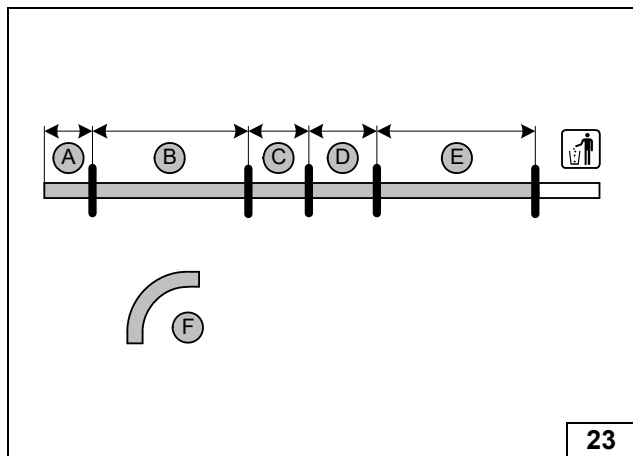


Preparing heater

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

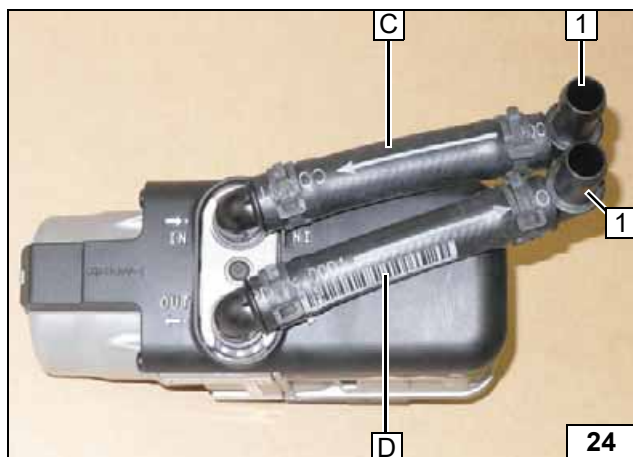


Installing water connection piece



- A = 60
- B = 500
- C = 130
- D = 130
- E = 500
- F = 90°, Ø15x18

Cutting hoses to length

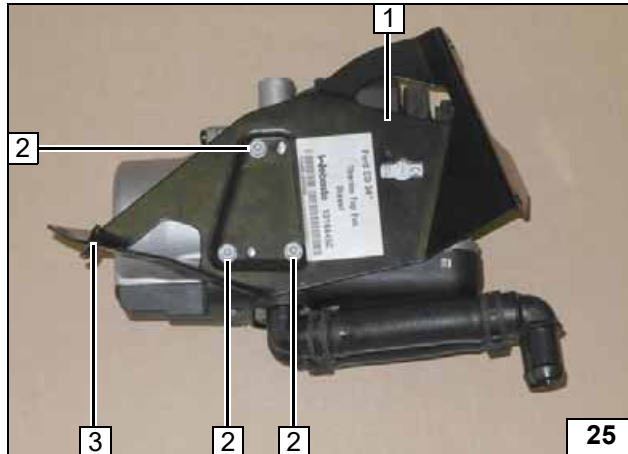
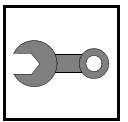


All spring clips = Ø25.

- 1 90°, Ø18x18 connecting pipe [2x]



Installing hoses

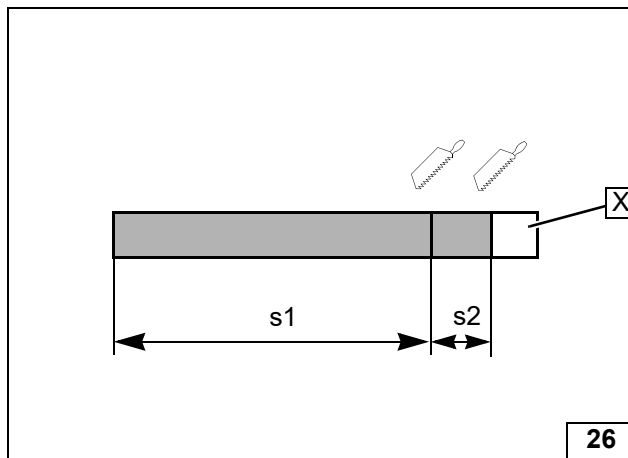


Screw 5x13 self-tapping bolts **2** [3x] into existing holes according to hole pattern of bracket.

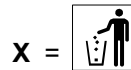
- 1 Bracket
- 3 Remove plastic clip



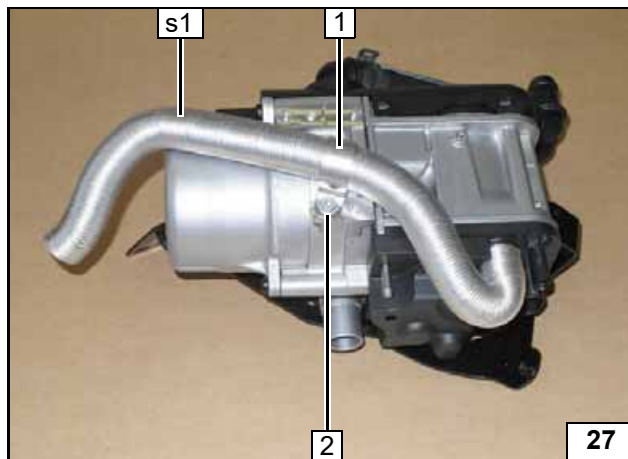
Installing bracket



s1 = 400
s2 = 50



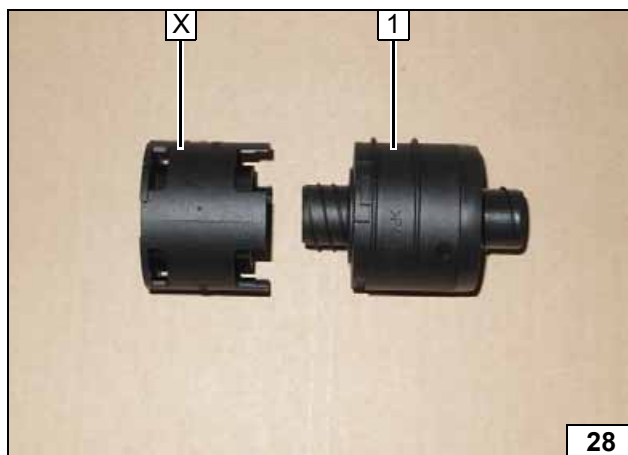
Cutting combustion air pipe to length



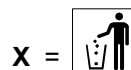
- 1 Ø25 clamp
- 2 M5x13 self-tapping bolt in existing hole



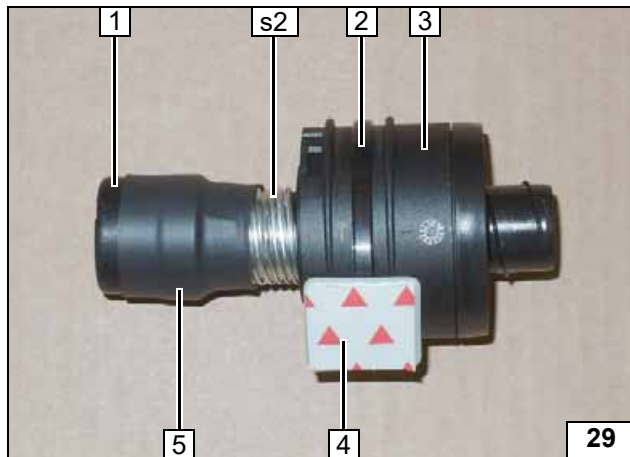
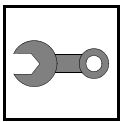
Installing combustion air pipe s1



- 1 Combustion air silencer



Preparing combustion air silencer

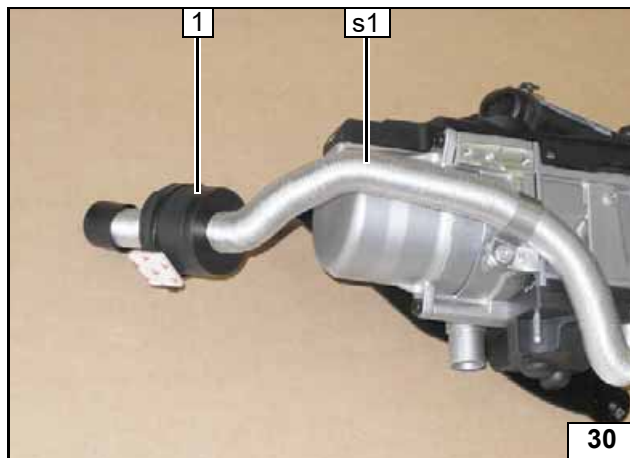


Fasten adhesive base 4 with cable tie 2 to combustion air silencer 3 as shown.



- 1 Protective cap
- 5 30 heat shrink plastic tubing

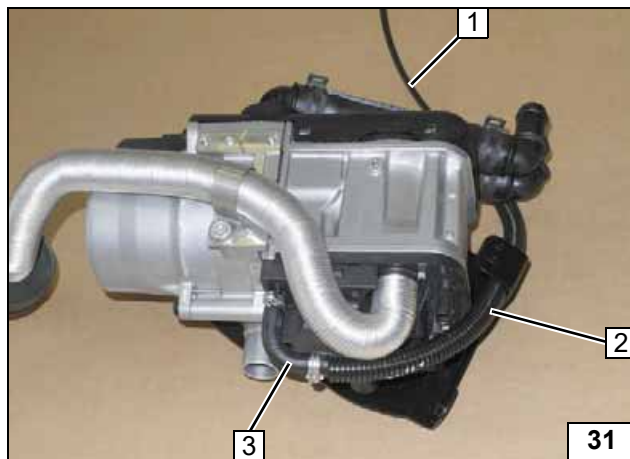
Premounting combustion air silencer



- 1 Combustion air silencer



Installing combustion air silencer

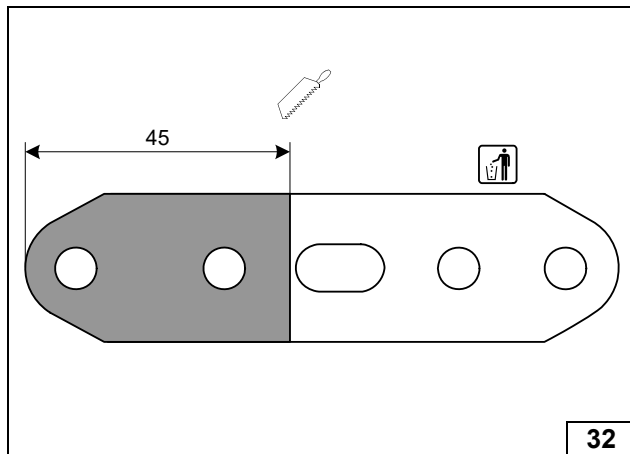


Ø10, 300 long corrugated tube 2 onto fuel line 1.

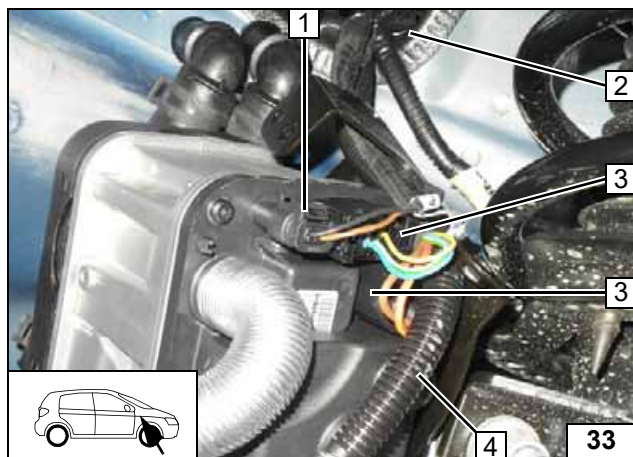
- 3 90° moulded hose, Ø10 clamp [2x]



Installing fuel line



Shortening perforated bracket



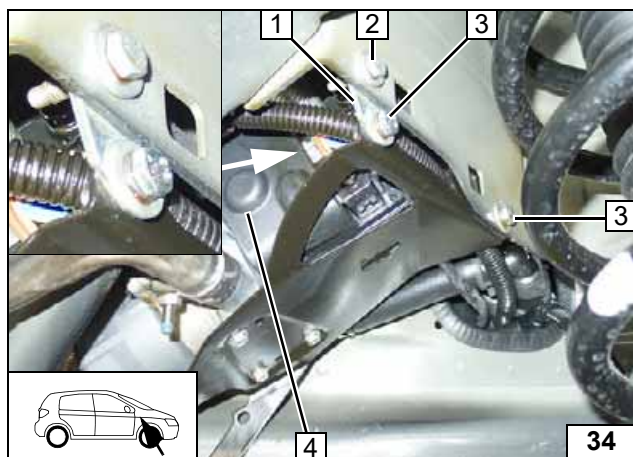
Installing heater

Route corrugated tube with fuel line 4 through pass through 2 into the engine compartment.

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



Mounting wiring harnesses

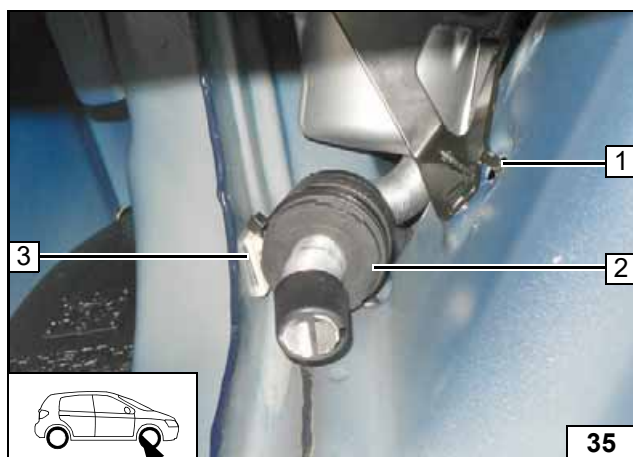


Install heater 4 as shown, note also the insertion opening in the next figure.

- 1 Perforated bracket
- 2 M6x20 bolt, large diameter washer, original vehicle hole, flanged nut
- 3 M6x16 bolt, spring lock washer, large diameter washer [2x each], original vehicle hole



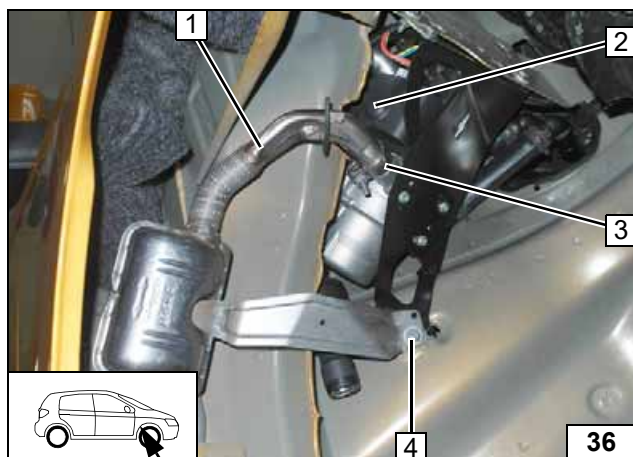
Installing heater



- 1 Insertion opening for locking tab
- 2 Combustion air silencer
- 3 Adhesive base on cable tie



Fixing combustion air silencer with adhesive base

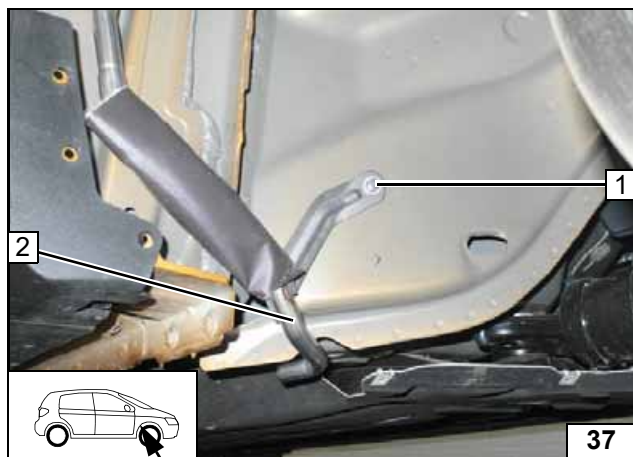


Install exhaust system 1 on heater 2 as shown. Ensure sufficient distance from neighbouring components.

- 3 Hose clamp
- 4 M6x20 bolt, spring lock washer, large diameter washer

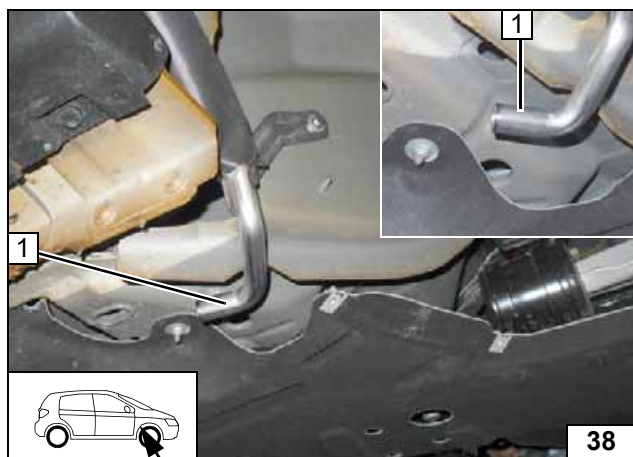


Installing exhaust system



- 1 M6x20 bolt, spring lock washer, large diameter washer
- 2 Exhaust system

Installing ex-haust system



Ensure sufficient distance between ex-haust system 1 and neighbouring components, correct if necessary.



Aligning ex-haust system



Fuel



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

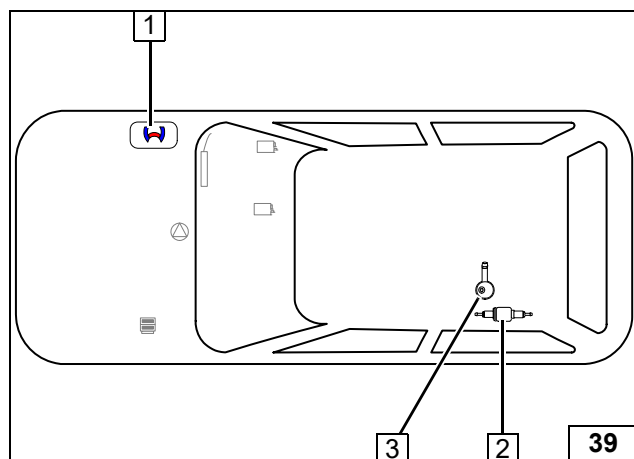
Catch any fuel running off in an appropriate container.

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.

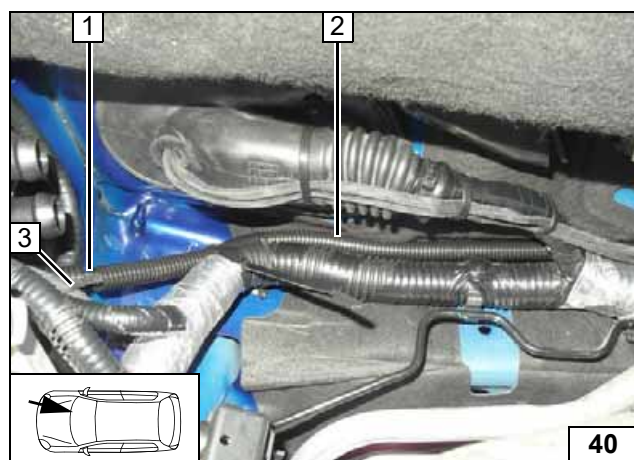
The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.



- 1 Heater
- 2 Metering pump
- 3 FuelFix



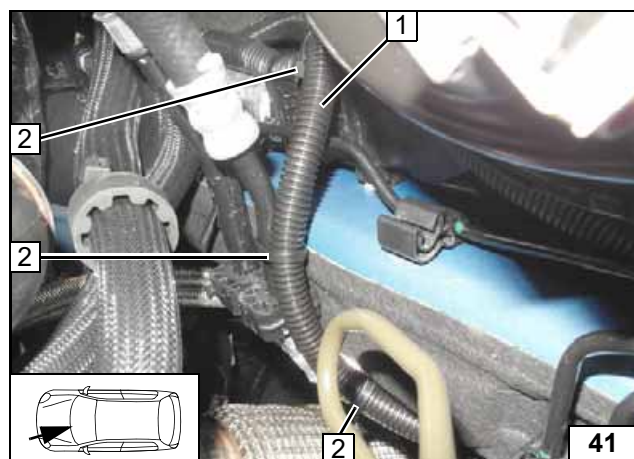
Installation overview



Draw fuel line 1 and metering pump wiring harness 3 into 1300 long, Ø10 corrugated tube 2 and route to the driver's side!

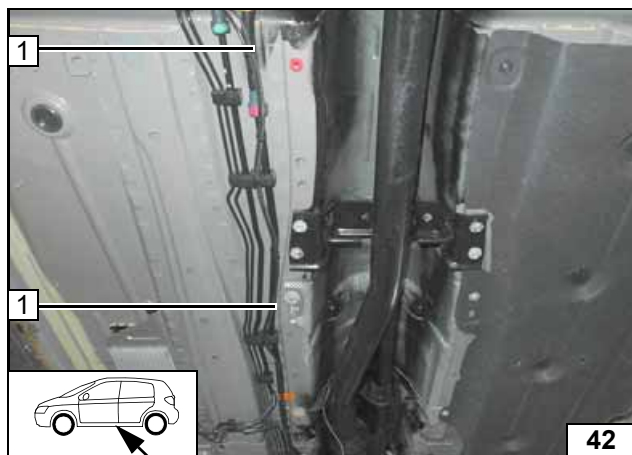
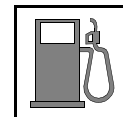


Routing lines



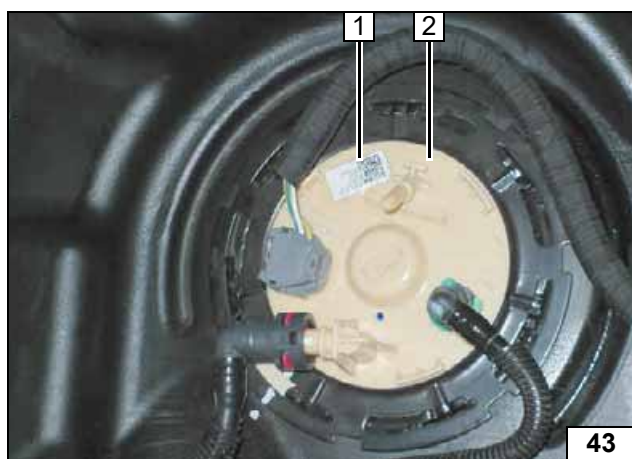
- 1 Fuel line and metering pump wiring harness in corrugated tube
- 2 Cable tie [3x]

Routing on firewall



Route fuel line and metering pump wiring harness **1** on the underbody along original vehicle fuel lines to the installation location of the metering pump.

Routing lines



FuelFix installation

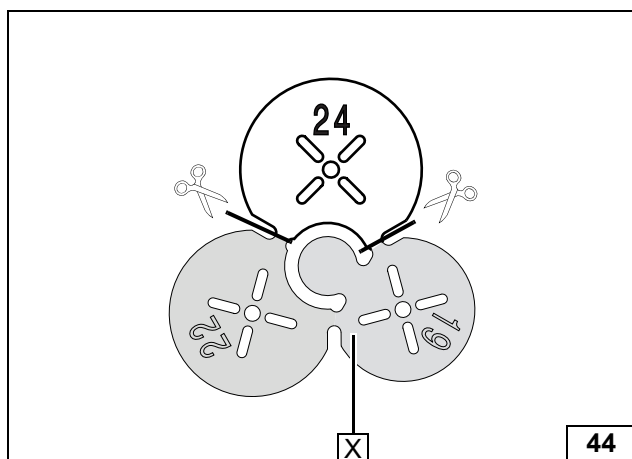
Remove the fuel tank according to the manufacturer's instructions.

Work step F1.

- 1 Reposition barcode label
- 2 Tank fitting

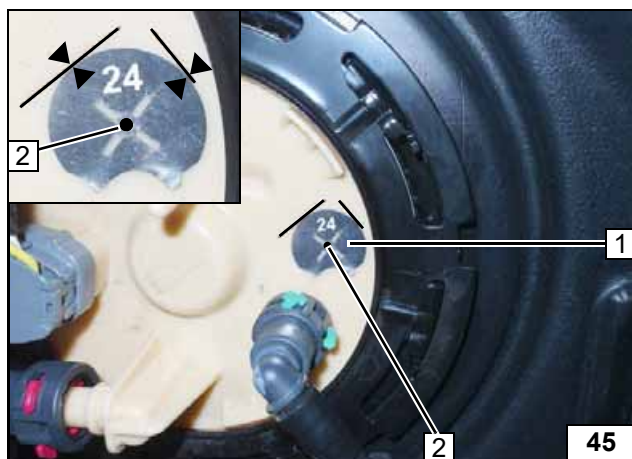


Moving barcode label



X =

Preparing drilling template



Work step F2.

- 1 Position Ø24 drilling template at the contour as shown
- 2 Copy hole pattern

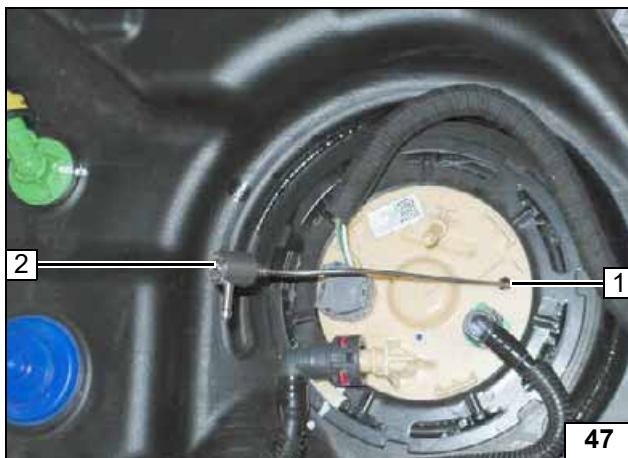
Copying hole pattern



Work step F3.

- 1 Hole made with provided drill

Hole for FuelFix



Work steps F4 and F5.

Bend FuelFix 2 according to template and cut to length. Insert into hole 1.



Inserting FuelFix



Inserting FuelFix



Inserting FuelFix

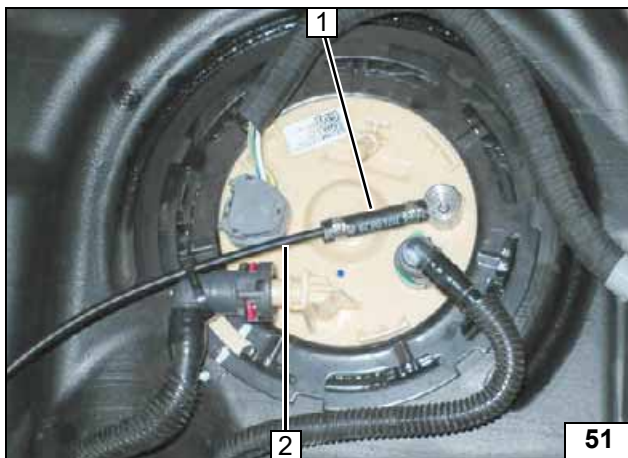


Work steps F5.3 and F5.4.

Align FuelFix 1 as shown.



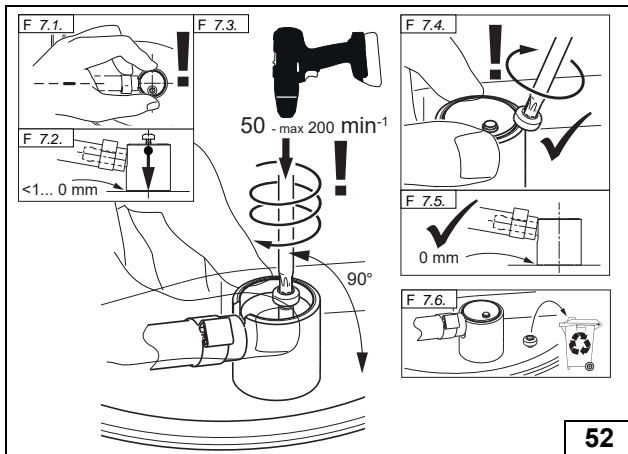
Aligning FuelFix



Work step F6.

- 1 Hose section, Ø10 clamp [2x]
- 2 Fuel line

**Connect-
ing fuel line**



Work step F7.

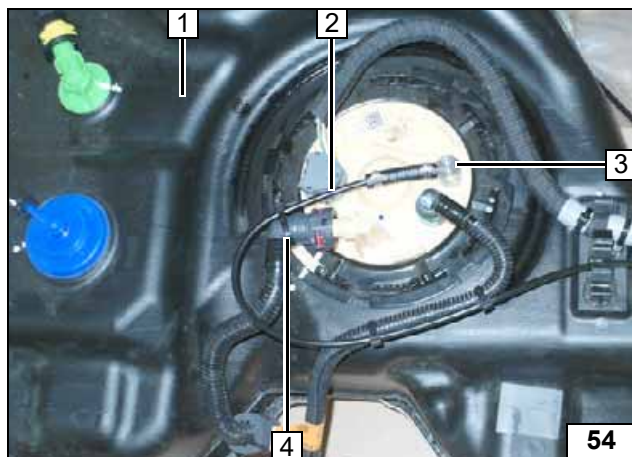
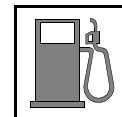


Installing FuelFix



Work step F8.

Ensuring firm seating of FuelFix

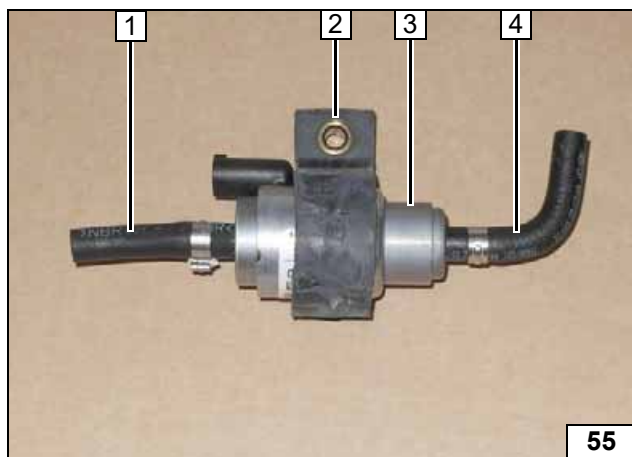


- 2 Fuel line of FuelFix
- 3 FuelFix mounted
- 4 Cable tie as tension relief

Securing fuel line



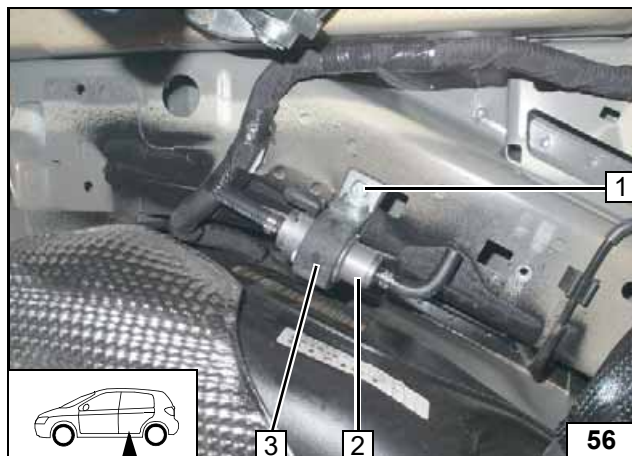
Install tank 1 according to the manufacturer's instructions.



- 1 Hose section, Ø10 clamp
- 2 Metering pump mount
- 3 Metering pump
- 4 90° moulded hose, Ø10 clamp



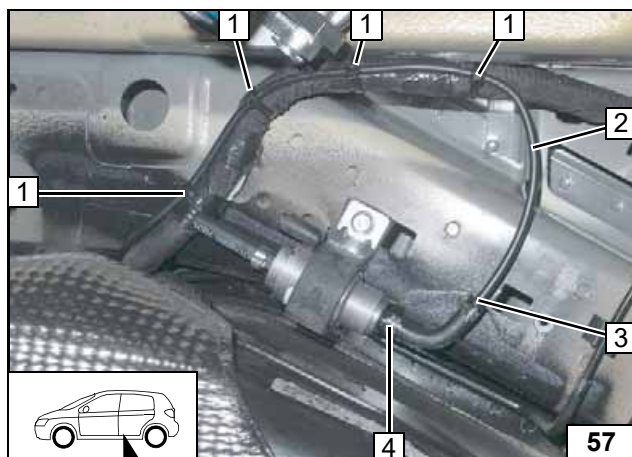
Preparing metering pump



- 1 M6x25 bolt, support angle bracket, original vehicle hole, flanged nut
- 2 Metering pump
- 3 Metering pump mount



Installing metering pump

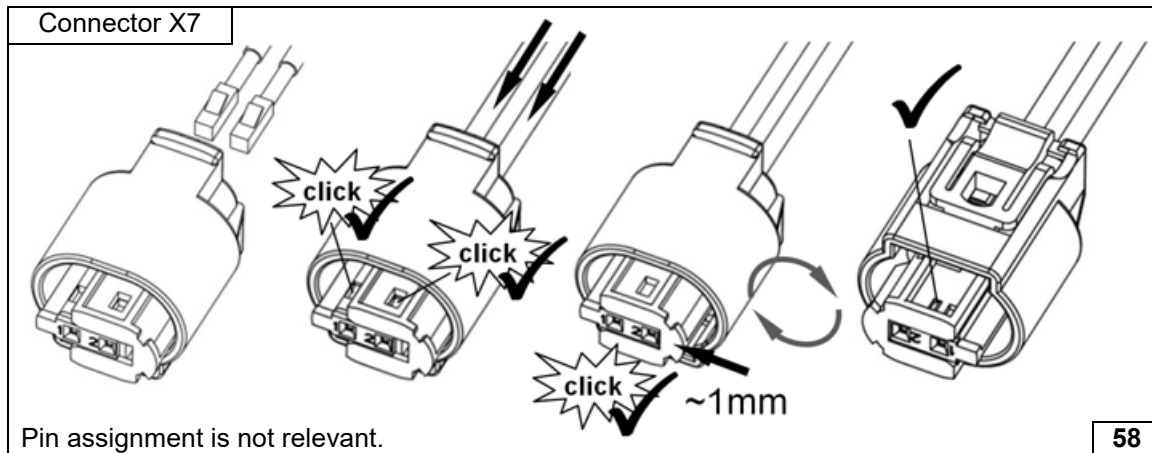


Connect FuelFix fuel line 2 on 90° moulded hose 4.

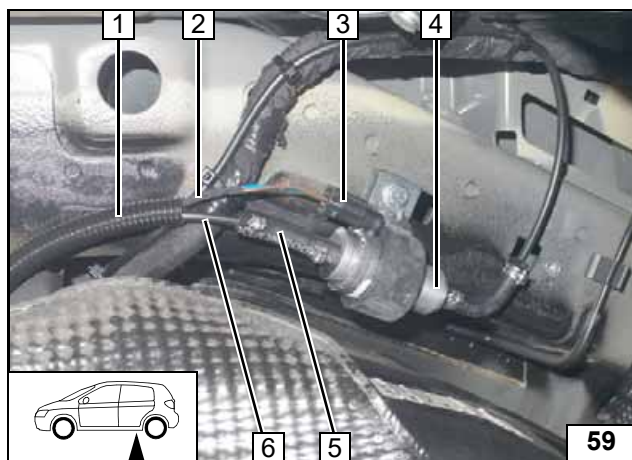
- 4 Cable tie [4x]
- 3 Ø10 clamp



Installing fuel line



Completing metering pump connector



Draw heater fuel line **6** and metering pump wiring harness **2** into Ø10 corrugated tube **1** and route to metering pump **4**. Ensure sufficient distance from neighbouring components, correct if necessary.



- 3** Metering pump wiring harness, connector X7 mounted
- 5** Hose section, Ø10 clamp

Connecting metering pump

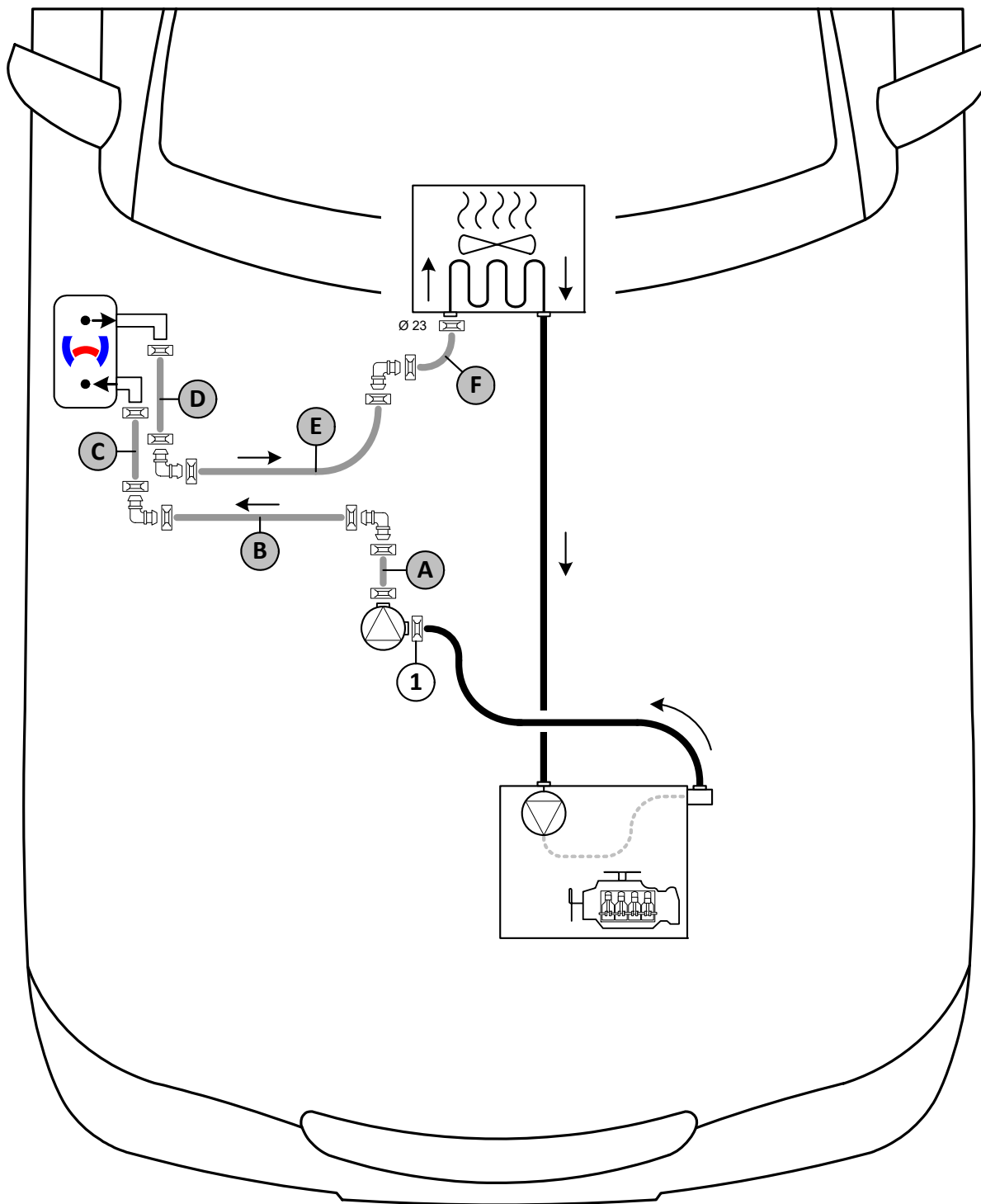


Coolant circuit







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  = Ø25. All connecting pipes  and  = Ø18x18.
 1 = Original vehicle spring clip 



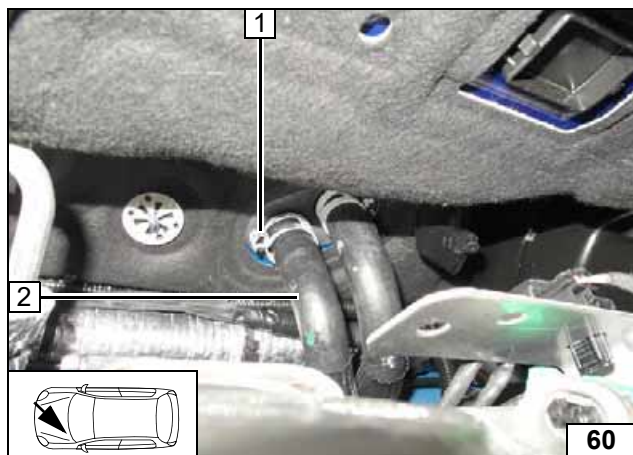
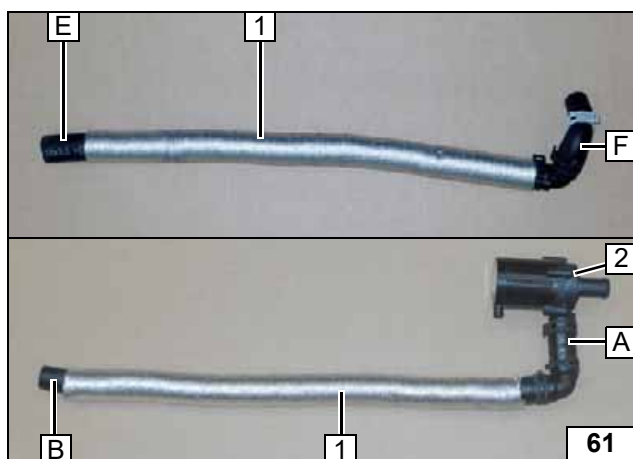


Figure shows 132 kW vehicle, identical procedure for 154/155kW vehicle.

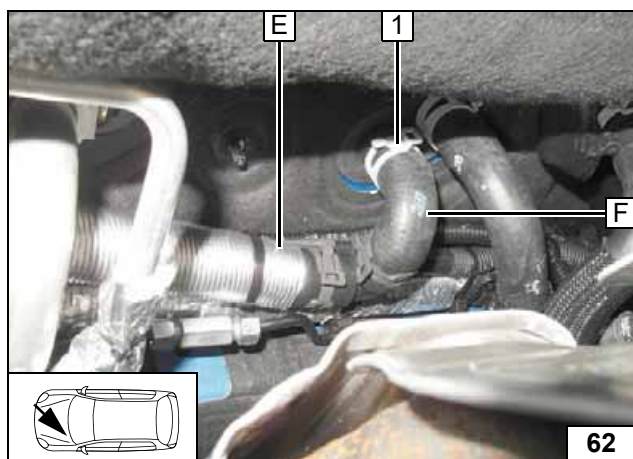
Pull off engine outlet / heat exchanger inlet hose 2. Original vehicle spring clip 1 will be reused.

Cutting point



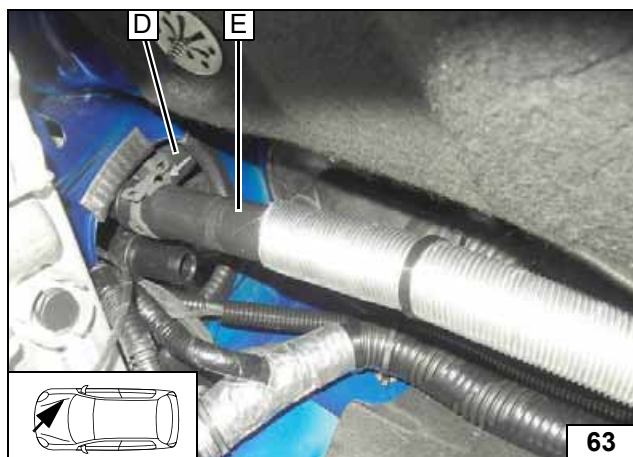
- 1 500 heat protection hose [2x]
- 2 Circulating pump

Premounting hoses and circulating pump

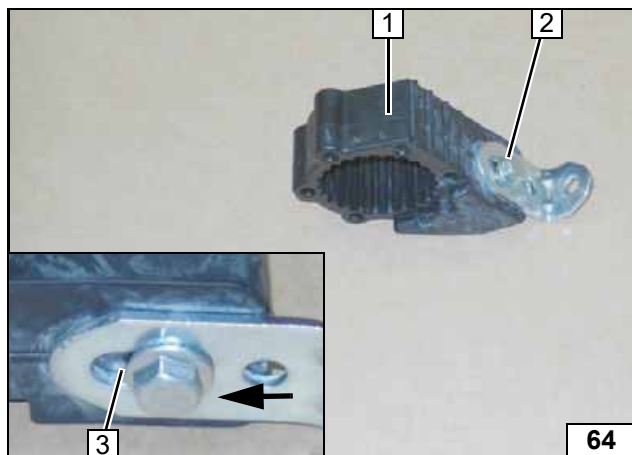


- 1 Ø23 spring clip

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



**Connect-
ing heater
outlet**

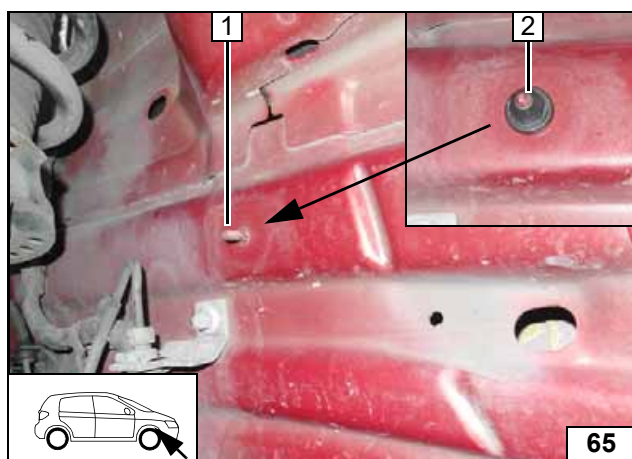


Move the angle bracket as far as possible at position **3** in the oblong hole as shown.

- 1 Circulating pump mount
- 2 M6x25 bolt, angle bracket, support sleeve, flanged nut



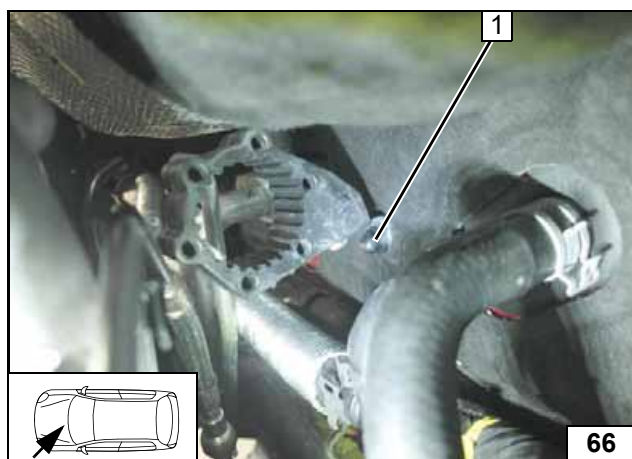
Premounting circulating pump mount



Tap provided plastic nut **2** using original vehicle stud bolt **1** for subsequent installation as shown and remove again.

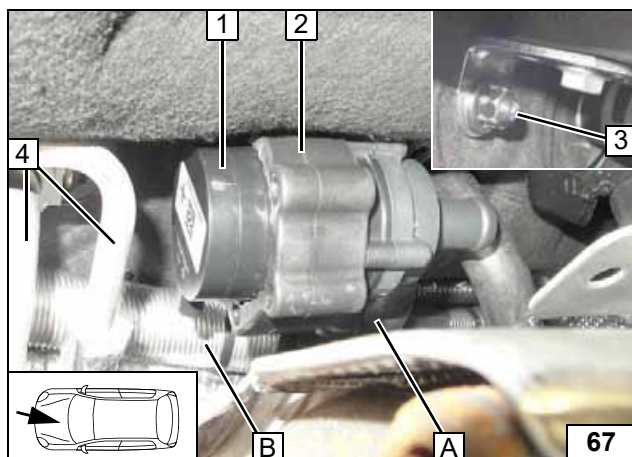


Preparing plastic nut



- 1 Original vehicle stud bolt, pre-mounted circulating pump mount, prepared plastic nut

Mounting circulating pump mount loosely



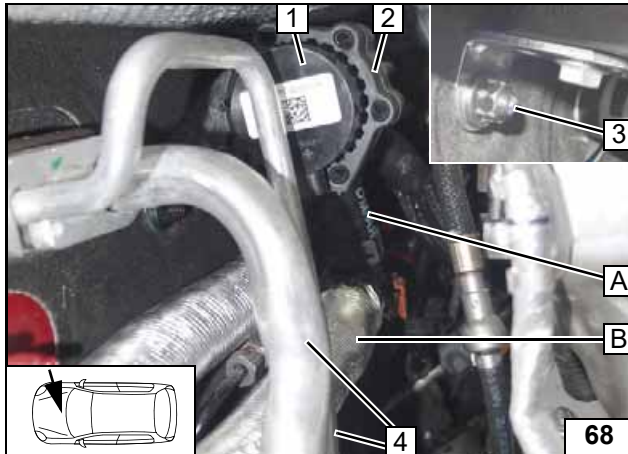
135kW

Insert circulating pump **1** with pre-mounted hoses **A** and **B** from the driver's side in the direction of the heater under the A/C lines **4** and mount.

- 2 Circulating pump mount
- 3 Tighten plastic nut



Installing circulating pump



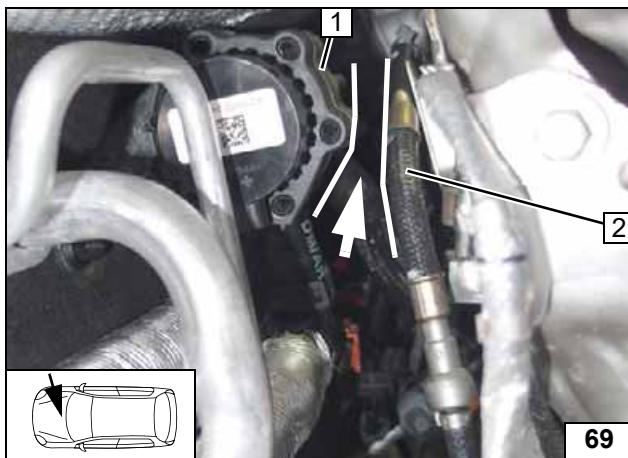
154/155kW

Insert circulating pump 1 with premounted hoses **A** and **B** from the driver's side in the direction of the heater under the A/C lines 4 and mount.

- 2 Circulating pump mount
- 3 Tighten plastic nut



Installing circulating pump

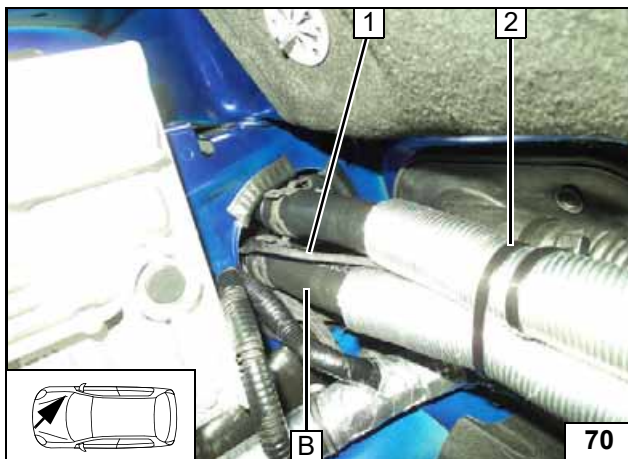


Ensure sufficient distance between original vehicle line 2 and circulating pump bracket 1, correct if necessary!

$$\left| \longleftrightarrow \right| \geq 30 \text{ mm}$$



Checking distance

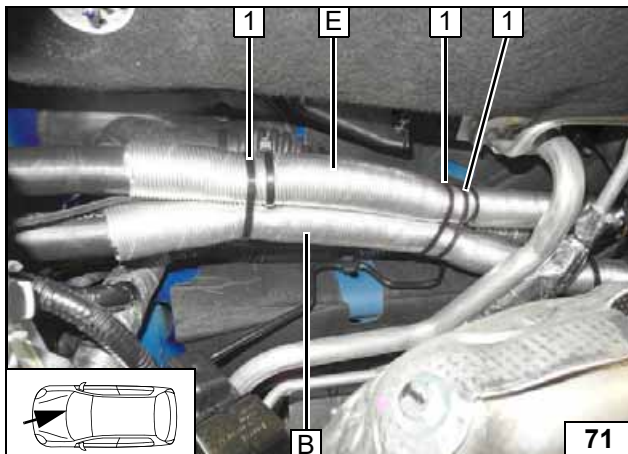


All vehicles

- 1 Wiring harness circulating pump
- 2 Cable tie



Connecting heater inlet

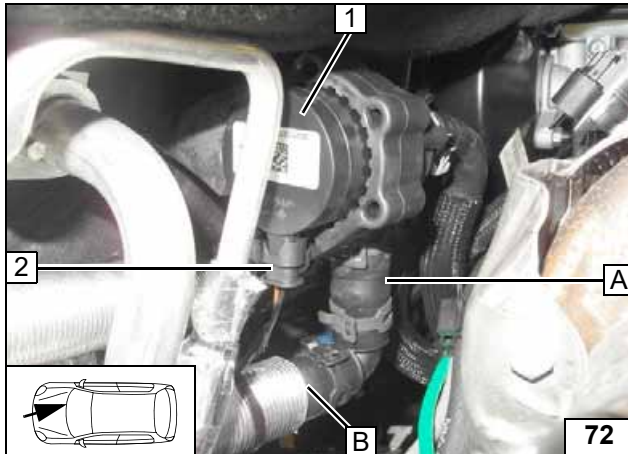


Align hoses and fasten together with circulating pump wiring harness using cable ties 1 [3x].

Ensure sufficient distance from neighbouring components, correct if necessary.

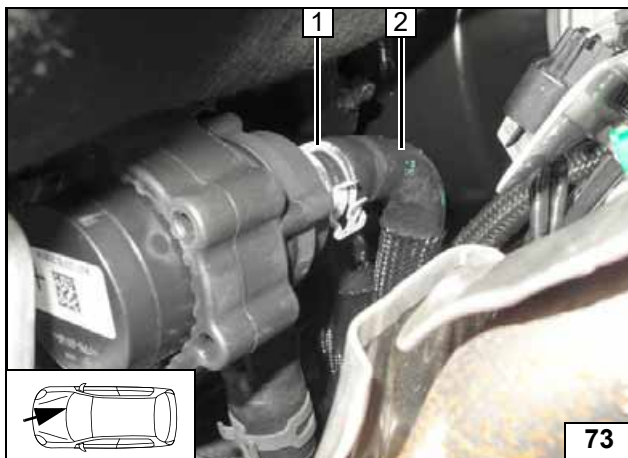


Routing in engine compartment



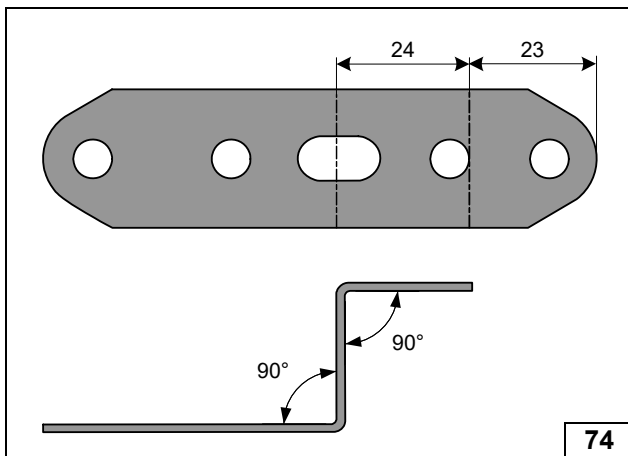
- 1 Circulating pump
- 2 Connector of circulating pump wiring harness

**Connect-
ing circulat-
ing pump**

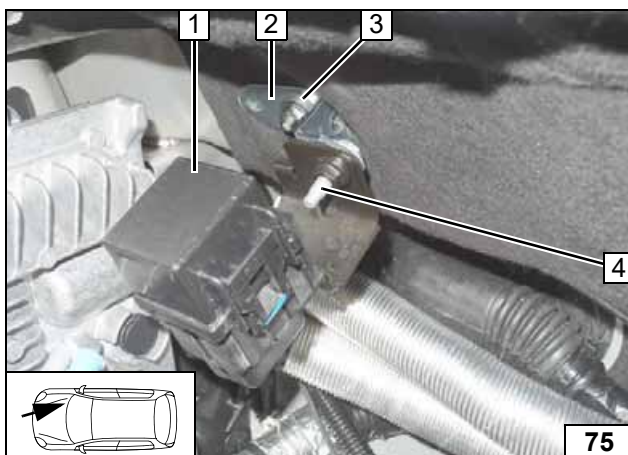


- 1 Original vehicle spring clip
- 2 Engine outlet hose

**Connect-
ing engine
outlet**

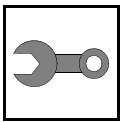


**Preparing
perforated
bracket**



- 1 Original vehicle relay
- 2 Perforated bracket
- 3 Plastic nut, original vehicle stud bolt
- 4 Original vehicle bolt

**Installing
original ve-
hicle relay**

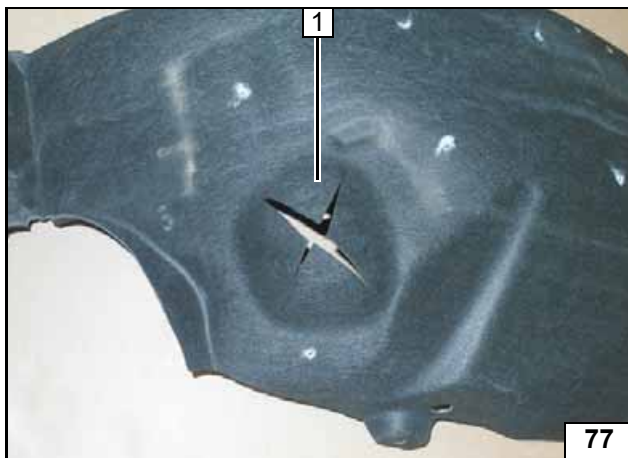


Final work

- 1 Right wheel-well inner panel
- 2 Remove insulation completely



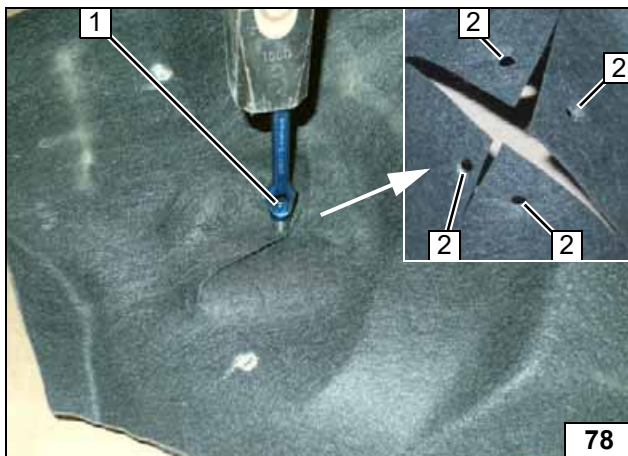
Removing insulation



Cut open raised part 1 in wheel-well inner panel as shown.



Adapting wheel-well inner panel

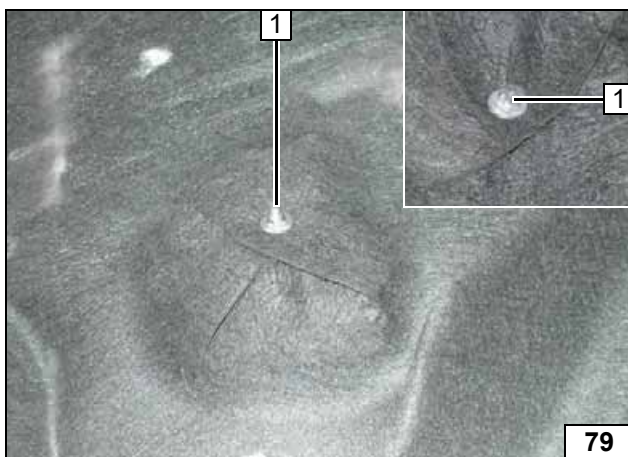


Fold flaps flat together as shown and punch Ø5 holes with punching tool 1.

- 2 Ø5 punched holes [4x]



Adapting wheel-well inner panel



Fold flaps and join together using M5x16 bolt, large diameter washer [2x] and self-locking flanged nut 1.



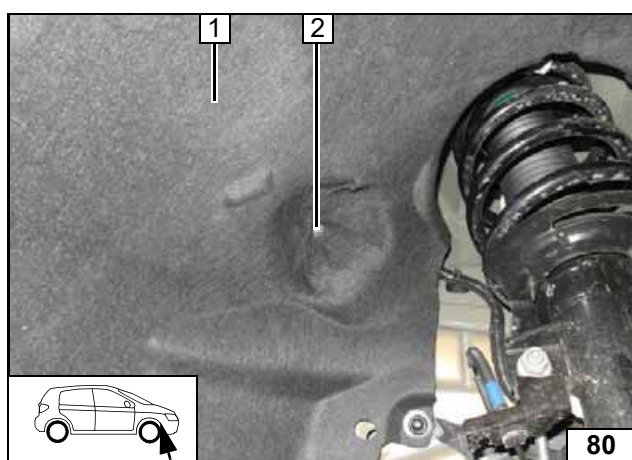
Adapting wheel-well inner panel



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.**
- **Program MultiControl CAR, teach Telestart transmitter.**
- **For initial start-up and function check, please see installation instructions.**
- **If the fan function or A/C control panel settings need to be checked, see the installation documentation in the additional 'Webasto Standard' or 'Webasto Comfort' A/C control kit, section 'Final Work'.**
- **Place the 'Switch off parking heater before refuelling' caution label near the filler point.**



Mount wheel-well inner panel **1**.
At position **2**, ensure sufficient distance from parking heater components located behind, correct if necessary.



Checking distance



FuelFix template

Top view

