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# Installation documentation

for Thermo Top Evo water heater

'Inline' coolant circuit with engine preheating

Renault Espace

Left-hand drive vehicle

| Manufacturer | Model | Type | Model year | EG-BE-No. / ABE |
|---|---|---|---|---|
| Renault | Espace | RFC | 2019 | e2* 2007/46* 0470*… |

| Motorisation | Fuel | Emission standard | Transmission type | Output [kW] | Displace-ment [cm³] | Engine code |
|---|---|---|---|---|---|---|
| 2.0D | Diesel | Euro 6d Temp | 6-speed DKG | 147 | 1997 | M9R |

| Validity | Equipment variants | Model |
|---|---|---|
| | | Espace |
| Verified equipment variants | 3 zone automatic air-conditioning | x |
| | LED main headlights | x |
| | LED daytime running lights | x |
| | Automatic Start-Stop system | x |
| | Start button with keycard | x |
| | All-wheel steering | x |
| | Heated windscreen | x |
| | Sun protect windscreen | x |
| Unverified equipment variants | 2 zone automatic air-conditioning | x |

| Total installation time | Note |
|---|---|
| 10 hours | |

# Contents

# 1 List of abbreviations

| | |
|---|---|
| AAC | Automatic air-conditioning |
| DKG | Dual clutch transmission |
| DP | Fuel pump |
| EFIX | Exhaust end fastener |
| FF | FuelFix (tank extracting device) |
| Fig. | Figure |
| HG | Heater |
| MCC | MultiControl (control element) |
| SH2 | Engine compartment fuse holder for F1/F2 |
| UP | Coolant pump |

# 2 Installation notes

## 2.1 Information on Validity

This installation documentation applies to vehicles listed on page 1, 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.

## 2.2 Components used

| Designation | Order number |
|---|---|
| Basic delivery scope of Thermo Top Evo | In accordance with price list |
| Installation kit for Renault Espace diesel 2019 | 1327460A |
| Additional 'Webasto Standard' A/C control kit for Renault Espace/Talisman AAC | 1324475_ |
| Additional 'Webasto Comfort' A/C control kit for Renault Espace/Talisman AAC | 1325545_ |
| MultiControl installation frame, for installation of MultiControl CAR | 9030077_ |
| In case of Telestart, control element, as well as indicator lamp in consultation with end customer | In accordance with price list |

## 2.3 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.

## 2.4 Installation recommendations

Arrange for the vehicle to be delivered with the tank only about ¼ full.
For the MultiControl CAR option, the recommended installation locations for the Telestart or ThermoCall push button 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.

# 3 About this document

## 3.1 Purpose of the document

This installation documentation is part of the product and contains all the information required to ensure professional vehicle specific installation of the:

Thermo Top Evo heater

## 3.2 Warranty and liability

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 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.

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.

### 3.2.1 Statutory regulations governing installation

The Thermo Top Evo heater has been type-tested and approved in accordance with ECE-R 10 (EMC) and ECE-R 122 (heater). 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.

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

## 3.3 Safety

### Qualifications of installation personnel

The installation personnel must have the following qualifications:

- Successful completion of Webasto training
- Corresponding qualification for working on technical systems

### Regulations and legal requirements

The regulations from the heater's general installation and operating instructions must be observed.

### 3.3.1 Safety information on installation

#### Danger posed by live parts

- ▶ Prior to installation, disconnect the vehicle from the voltage supply.
- ▶ Make sure the electrical system is earthed correctly.
- ▶ Always comply with legal requirements.
- ▶ Observe data on type label.

#### Danger of fire and leaking toxic gases due to improper installation

- ▶ Vehicle parts in the vicinity of the heater must be protected against excessive heating by the following measures:
  - ⇨ Maintain minimum safety distances.
  - ⇨ Ensure adequate ventilation.
  - ⇨ Use fire-resistant materials or heat shields.

#### Danger due to sharp edges

- Lacerations
- Short circuit due to electrical wire damage

- ▶ Fit protectors on sharp edges.

## 3.4 Using this document

Before installing and operating the heater, read this installation documentation, the installation instructions of the heater, the operating instructions and supplementary sheets provided.

### 3.4.1 Explanatory Notes on the Document

There is an identification mark near the respective work step to allow you to quickly allocate the other applicable documents to the Webasto components to be installed:

| | |
|---|---|
| Generally valid Webasto documentation | |
| Vehicle-specific installation documentation | K |
| Vehicle-specific installation documentation of the cold start kit | M |
| Webasto Comfort A/C control | H |
| Webasto Standard A/C control | G |
| Tank extracting device (e.g. FuelFix) | F |
| Exhaust end fastener (EFIX) | E |
| Combustion air intake silencer | L |
| Spacer bracket (ASH) | S |

### 3.4.2 Use of symbols

**DANGER**

Type and source of the risk

Consequences: Failure to follow the instructions can result in death

▶ Actions to protect yourself against risks.

**WARNING**

Type and source of the risk

Consequences: Failure to follow the instructions can lead to serious or even fatal injuries

▶ Actions to protect yourself against risks.

**CAUTION**

Type and source of the risk

Consequences: Failure to follow the instructions can lead to minor injuries

▶ Actions to protect yourself against risks.

Type and source of the risk

Consequences: Failure to follow the instructions can lead to material damage

▶ Actions to protect yourself against risks.

Reference to the vehicle manufacturer's specific documents.

Note on a special technical feature

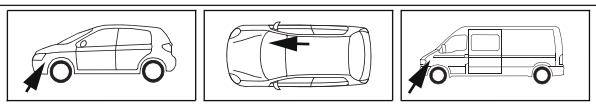
### 3.4.3 Work step identification marks

The ongoing work step is indicated on the outside top corner of the page:

| Mechanical system | Electrical system | High-voltage | Coolant |
|---|---|---|---|
| | | | |

| Combustion air | Fuel | Exhaust | Software |
|---|---|---|---|
| | | | |

### 3.4.4 Orientation aid



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

### 3.4.5 Use of highlighting

| Highlight | Explanation |
|---|---|
| ✓ | Action |
| ▶ | Necessary action |
| ⇨ | Result of an action |
| 1 / 12 / a1 | Position numbers for the image descriptions |
| ① / ⑫ / Ⓐ | Position numbers for the image descriptions for electrical wires and wiring harnesses and coolant hose sections |

# 4 Technical Information

| Dimension specifications |
|---|
| – All dimensions specified in mm |
| – Perforated brackets and mounting angles are shown to scale |
| – Observe data regarding scale on the templates |

| Tightening torque specifications |
|---|
| – Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm |
| – Tightening torque values of 5x15 retaining plate of water connection piece bolts = 7Nm |
| – 5x12 bolt tightening torque of 2-part heater bracket = 6Nm |
| – Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology |

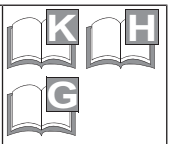
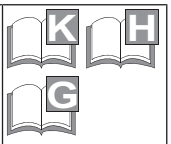
| Temperature specification for heat shrink plastic tubings |
|---|
| – Fabric heat shrink tubing: shrink temperature max. 230°C |
| – Standard heat shrink plastic tubing: shrink temperature max. 300°C |

| Necessary special tools |
|---|
| – Hose clamp pliers for auto-tightening hose clamps |
| – Hose clamp pliers for Clic hose clamps of type W |
| – Hose clamping pliers |
| – Hose cutter |
| – Automatic wire stripper 0.2 - 6 $mm^2$ |
| – Crimping pliers for cable lugs 0.5 – 10 $mm^2$ |
| – Crimping pliers for male connector 0.14 – 6 $mm^2$ |
| – Crimping pliers for connector 0.25 – 6 $mm^2$ |
| – Torque wrench for 2.0 - 10 Nm |
| – Deep-hole marker |
| – Metric thread-setter kit |
| – Webasto Thermo Test Diagnosis with current software |

# 5 Preparations

## 5.1 Vehicle preparation

Further information can be found in the vehicle manufacturer's technical documentation.

| Vehicle area | Components to be removed | Other applicable documents |
|---|---|---|
| General | ▶ Open the fuel tank cap<br>▶ Ventilate the fuel tank<br>▶ Close the fuel tank cap again<br>▶ Depressurise the cooling system |  |
| Engine compartment and body | ▶ Complete air filter box<br>▶ Engine cover<br>▶ Front wheel on the driver's side<br>▶ Engine underride protection<br>▶ Underbody trim on the driver's side<br>▶ Tank underbody trim on the driver's side<br>▶ Bumper trim<br>▶ Headlights on the driver's side |  |
| Passenger compartment | ▶ Side instrument panel trim on the driver's side<br>▶ Door sill trim on the driver's side<br>▶ Lower instrument panel trim on the driver's side<br>▶ Lower A-pillar trim on the driver's side<br>▶ Centre console trim on the driver's and front passenger's side<br>▶ Lower instrument panel trim on the driver's side<br>▶ Rear bench seat in the middle and on the front passenger's side<br>▶ Tank fitting service lid |  |

## 5.2 Heater preparation

| | | |
|---|---|---|
| Engine compartment | ▶ Remove years that do not apply from the type and duplicate label<br>▶ Attach the duplicate label (type label) in the appropriate place in the engine compartment |  |

# 6 Installation overview

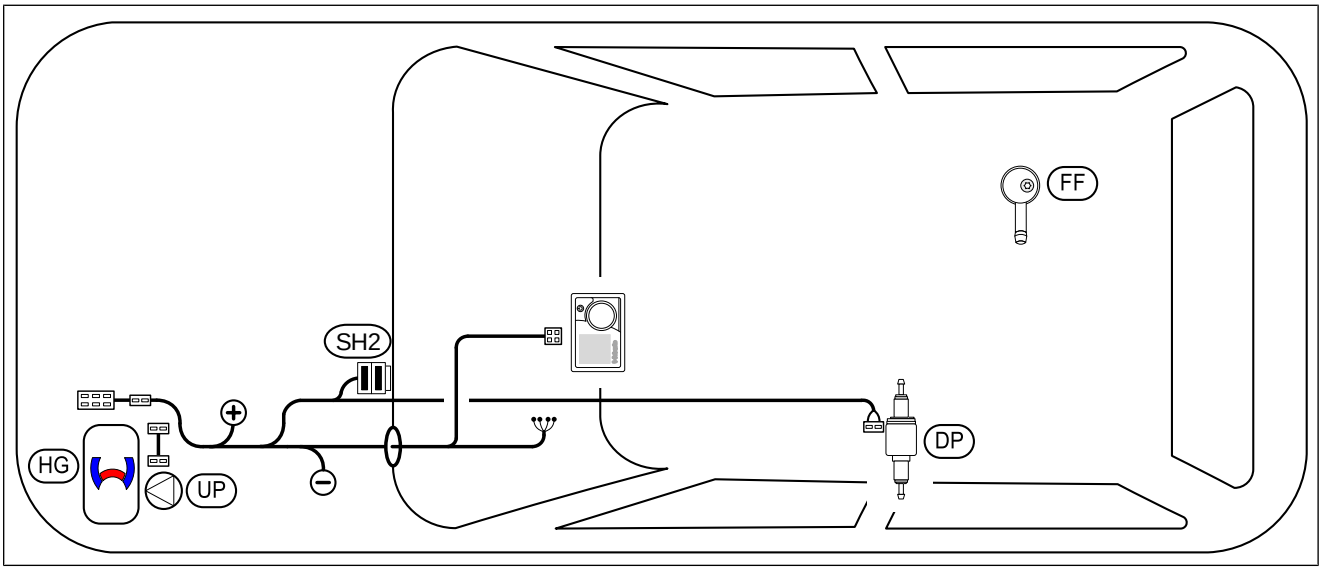



*Fig. 1*

## Legend to installation overview

| Abbreviation | Component |
|---|---|
| DP | Fuel pump |
| FF | FuelFix |
| HG | Heater |
| SH2 | Engine compartment fuse holder for F1/F2 |
| UP | Coolant pump |

## Heater installation location

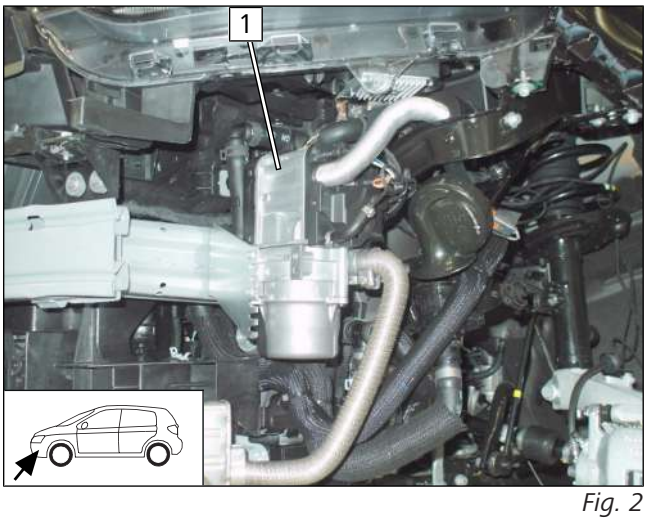



*Fig. 2*

1 Heater

# 7 Electrical system of engine compartment

Drilling hole

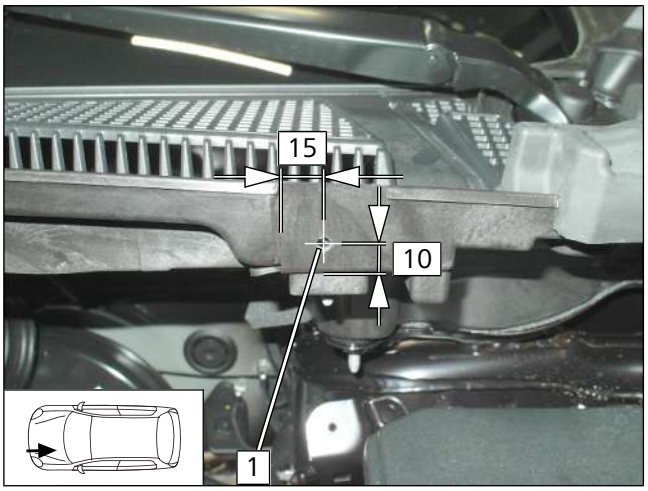



*Fig. 3*

[1] Ø6 hole

Premounting retaining plate of SH2

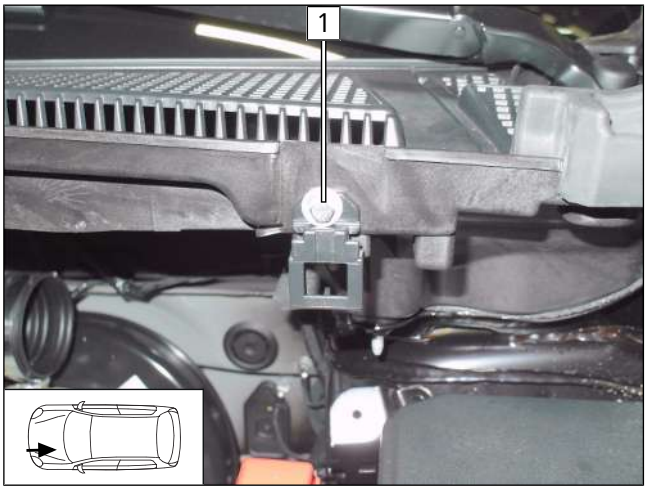



*Fig. 4*

[1] M5x16 bolt, large diameter washer, retaining plate SH2, drilled hole, large diameter washer, nut

Installing SH2

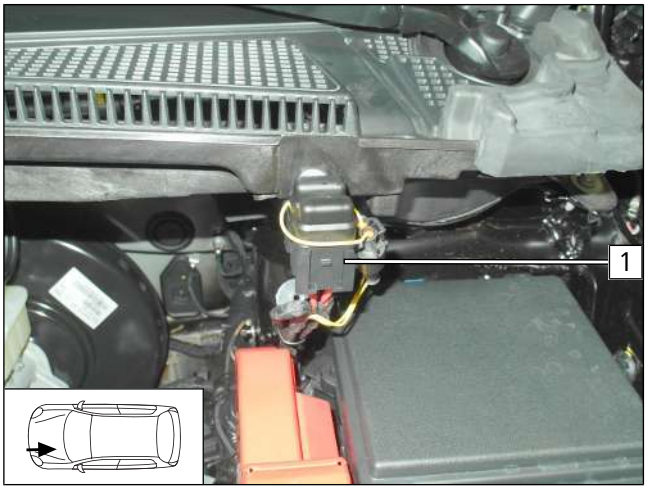



*Fig. 5*

[1] SH2 with fuse F1 and F2

## Connecting positive wire

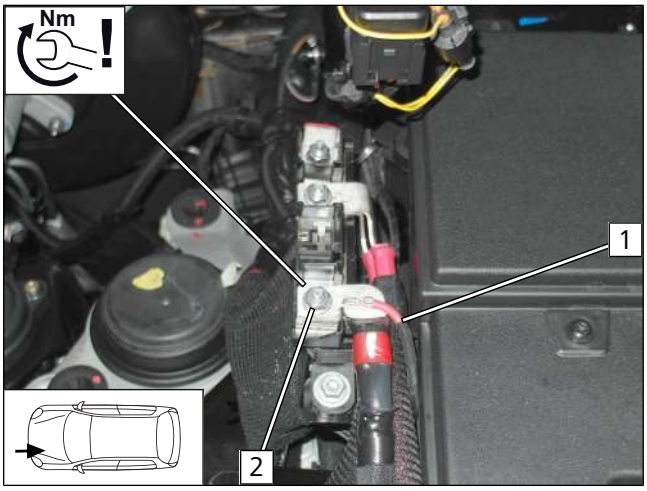



*Fig. 6*

**DANGER**

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Positive wire
2 Positive distributor

## Connecting earth wire

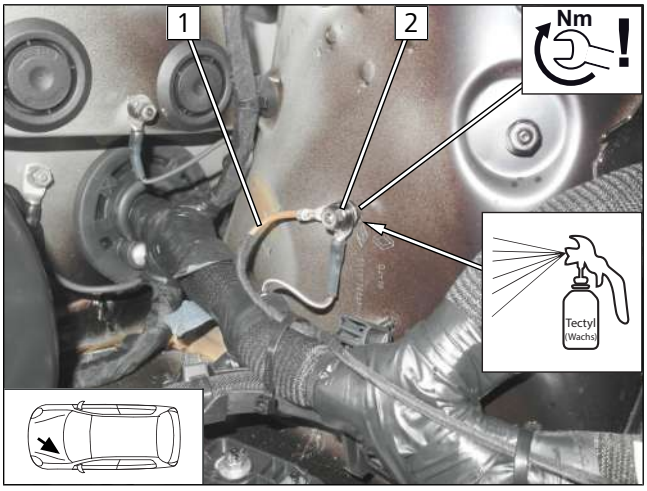



*Fig. 7*

**DANGER**

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Earth wire
2 Earth support point

## Passenger compartment wiring harness pass through

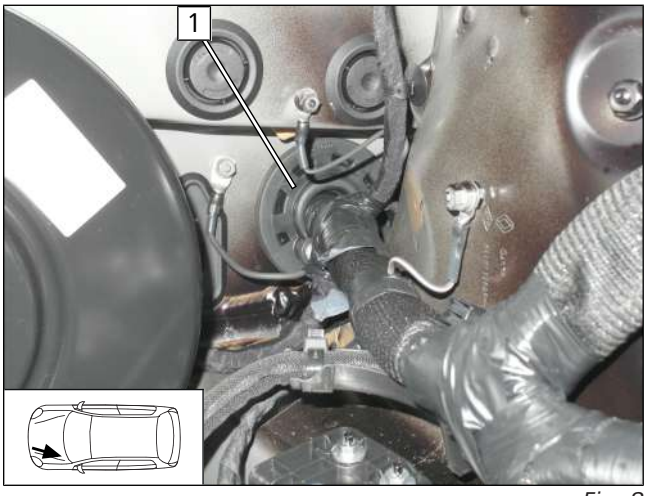



*Fig. 8*

1 Passenger compartment wiring harness pass through

# 8 Mechanical system

## 8.1 Preparing installation location

### Preparing bracket

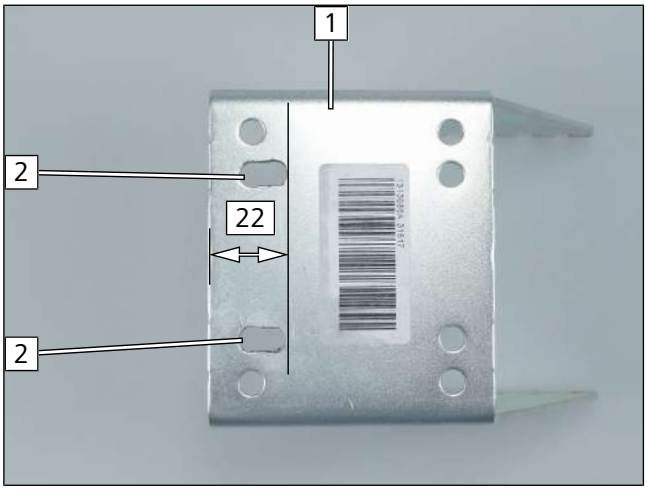



*Fig. 9*

▶ Enlarge available holes at positions 2 to form oblong holes as shown in the Fig..

1 Bracket

### Removing horn

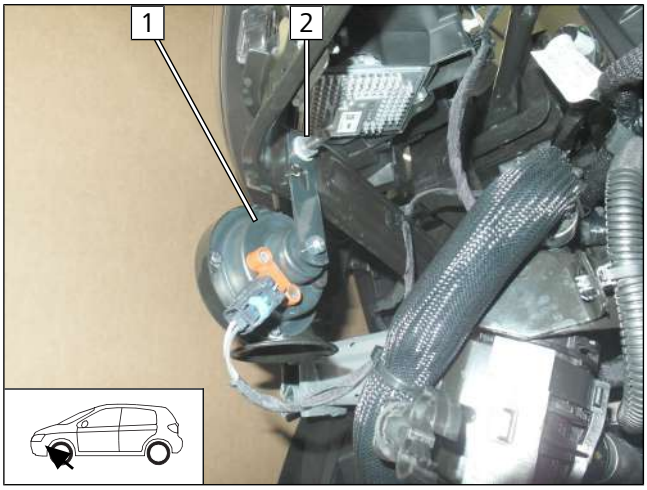



*Fig. 10*

1 Horn with bracket

2 Original vehicle nut (will be reused)

### Drawing a guide line

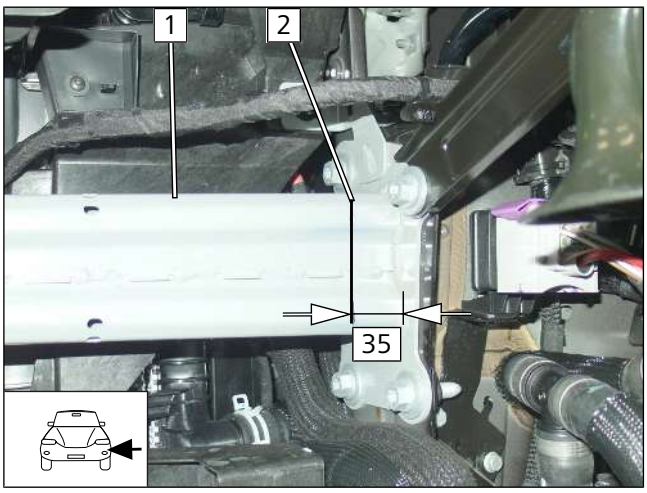



*Fig. 11*

▶ Draw guide line 2 on frame side member 1 as shown.

## Copying hole pattern of bracket

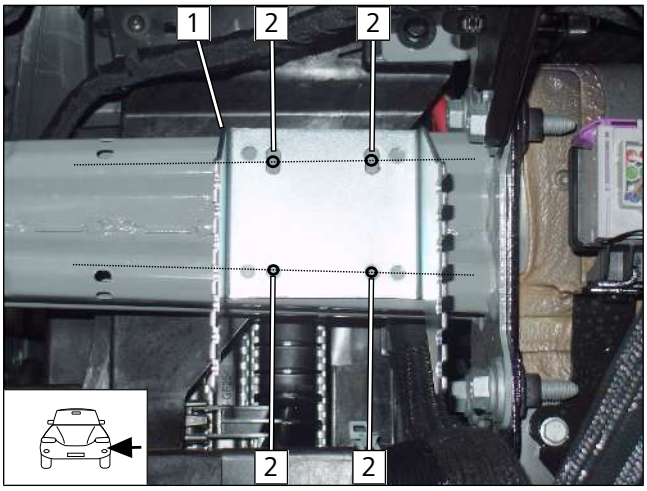



*Fig. 12*

▶ Position bracket [1] at the guide line and align at the centre of the frame side member (see next fig.).

[2] Hole pattern

## Inserting and tightening rivet nuts

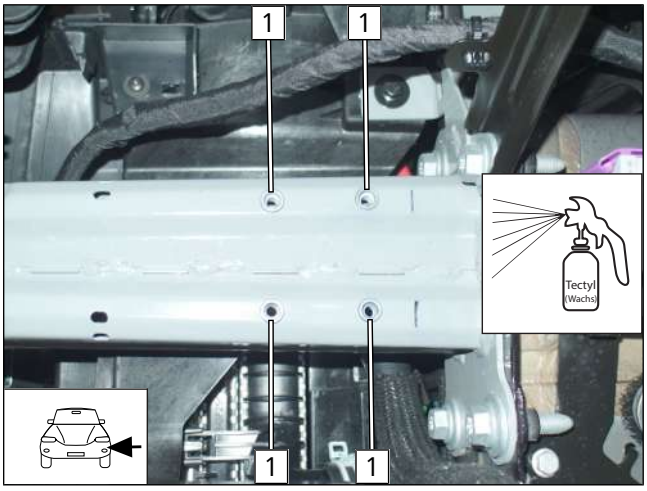



*Fig. 13*

[1] Ø9 hole, rivet nut

## Mounting bracket

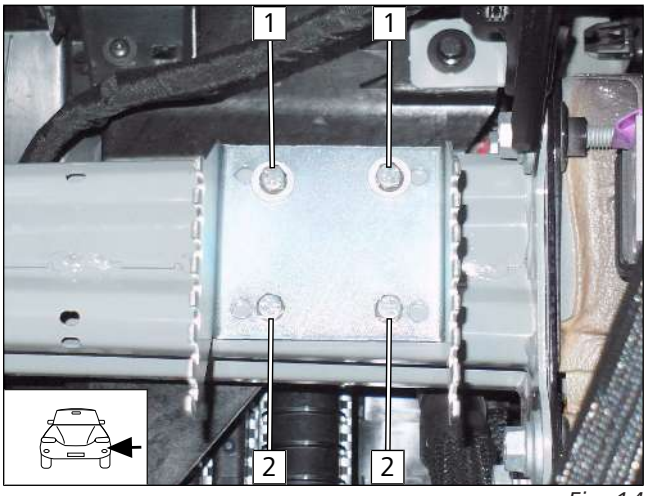



*Fig. 14*

[1] M6x20 bolt, spring lock washer, large diameter washer, bracket, rivet nut

[2] M6x20 bolt, spring lock washer, bracket, rivet nut

## Removing original vehicle clip

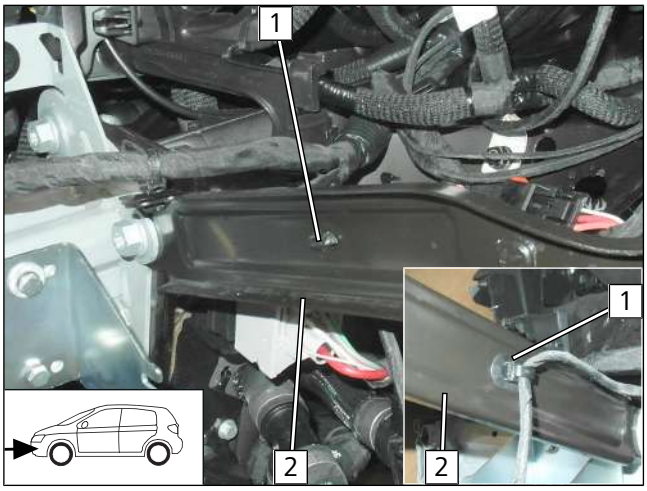



*Fig. 15*

1 Original vehicle clip
2 Original vehicle strut

## Shortening coolant pump perforated bracket

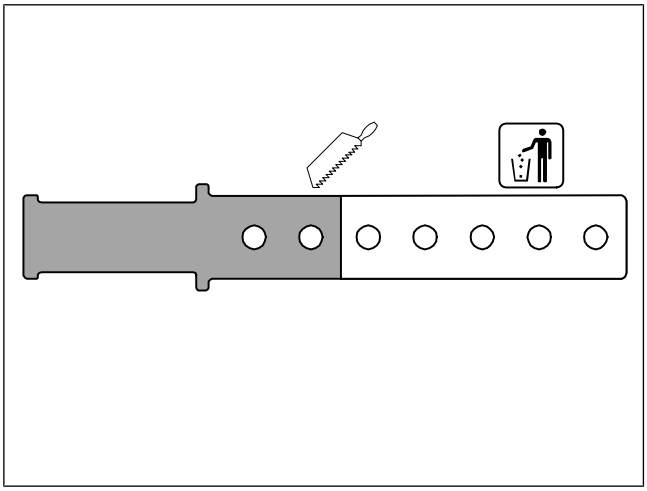


*Fig. 16*

## Mounting coolant pump perforated bracket

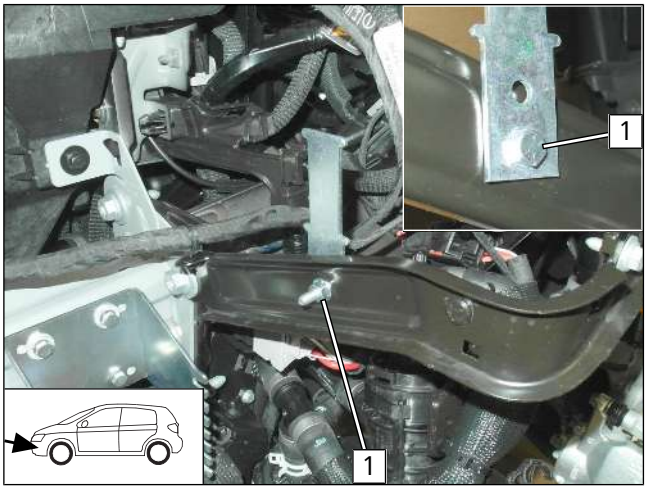



*Fig. 17*

1 M6x20 bolt, perforated bracket, original vehicle strut, flanged nut

## 8.2 Premounting heater

### Mounting water connection piece

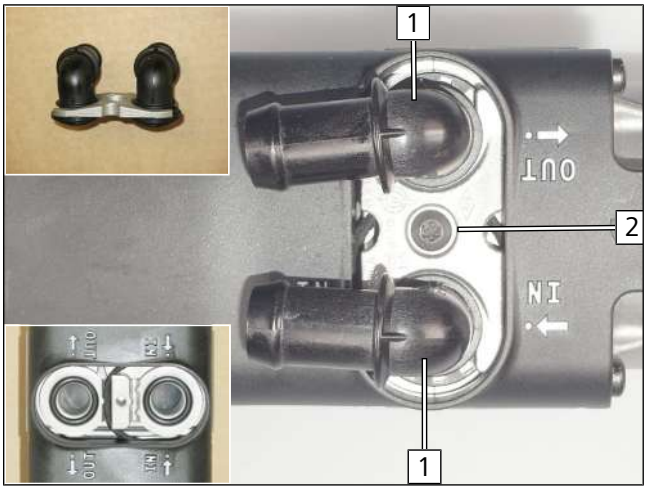



*Fig. 18*

Observe the general installation instructions of the heater.

1 Water connection piece, seal

2 5x15 self-tapping bolt, water connection piece retaining plate

### Premounting bolts

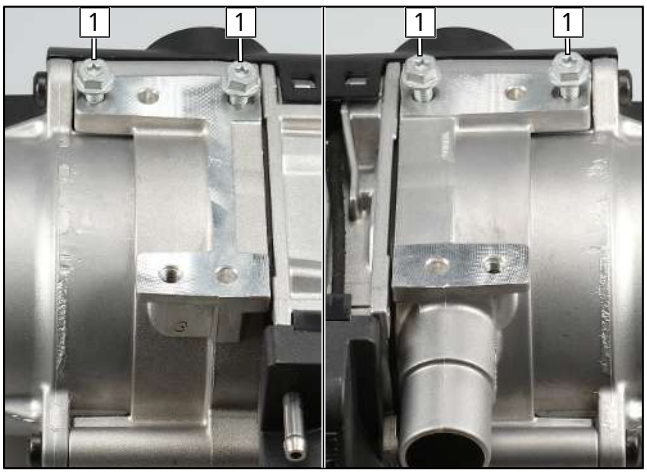



*Fig. 19*

▶ Screw 5x13 self-tapping bolts 1 into existing holes by a maximum of 3 thread turns.

### Preparing hoses

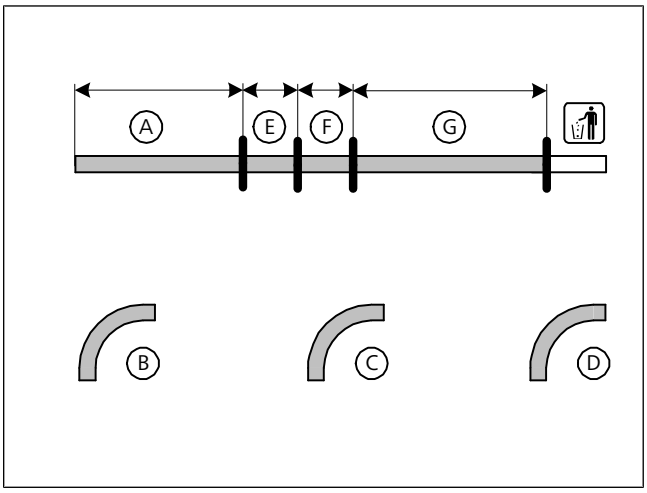



*Fig. 20*

| | |
|---|---|
| A | 500 |
| B | 90° moulded hose |
| C | 90° moulded hose |
| D | 90° moulded hose |
| E | 100 |
| F | 130 |
| G | 730 |

Mounting hoses (E) and (F)

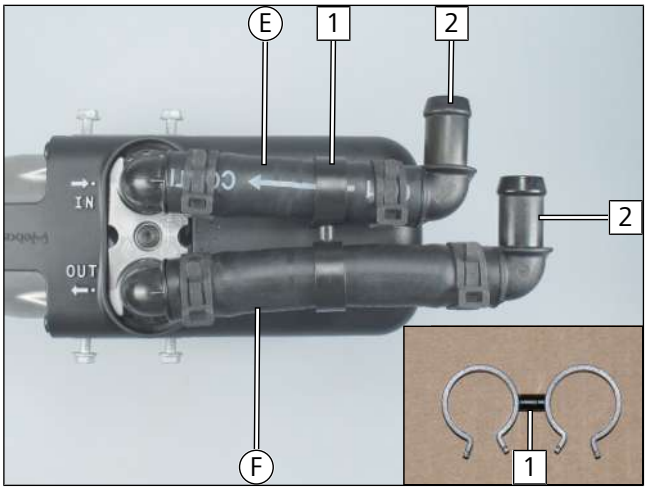



*Fig. 21*

All spring clips Ø25

1 Hose bracket

2 18x18, 90° connecting pipe

## 8.3 Heater mounting

Mounting heater

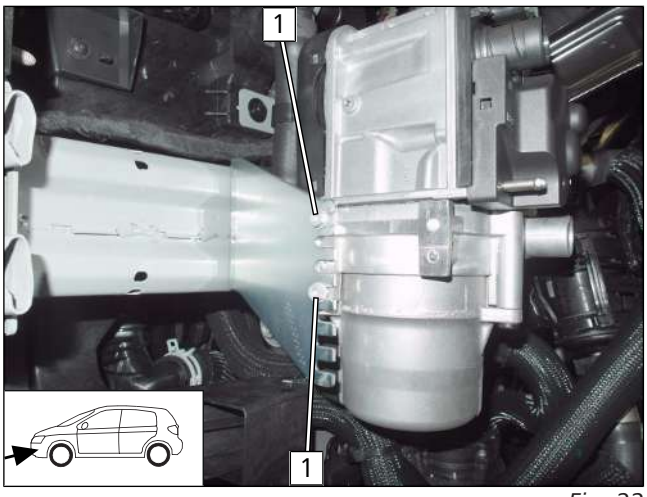



*Fig. 22*

1 Tighten 5x13 self-tapping bolt

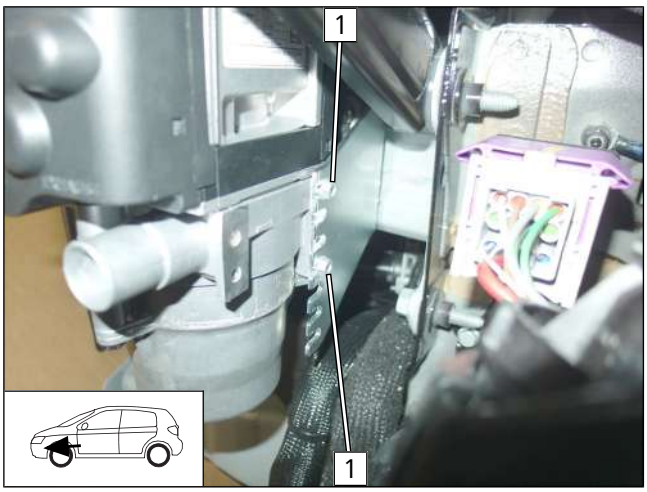



*Fig. 23*

1 Tighten 5x13 self-tapping bolt

## Mounting heater wiring harness

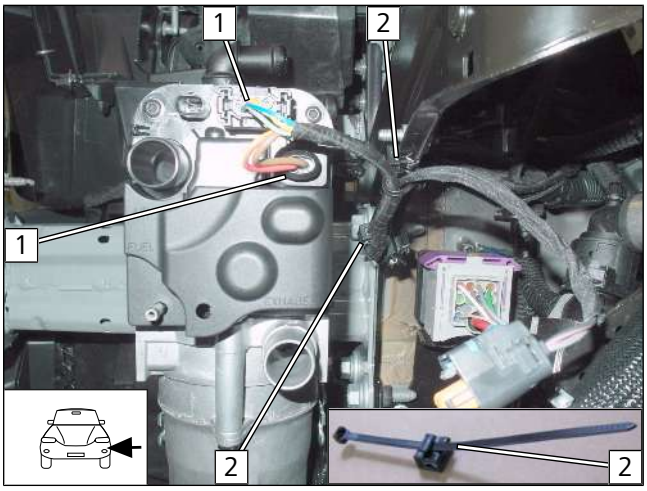



*Fig. 24*

▶ Fasten heater wiring harness and original vehicle wiring harness with edge clip cable tie **2** as shown.

**1** Heater wiring harness connector

## Fastening original vehicle wiring harness

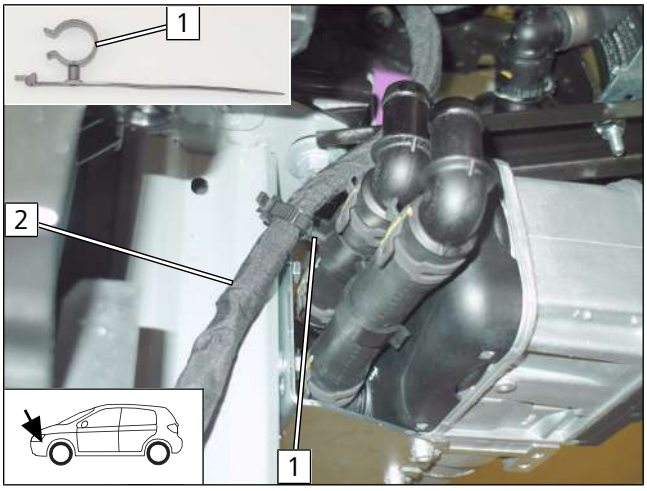



*Fig. 25*

**1** Hose bracket with cable tie

**2** Original vehicle wiring harness

# 9 Coolant

## 9.1 Hose routing diagram

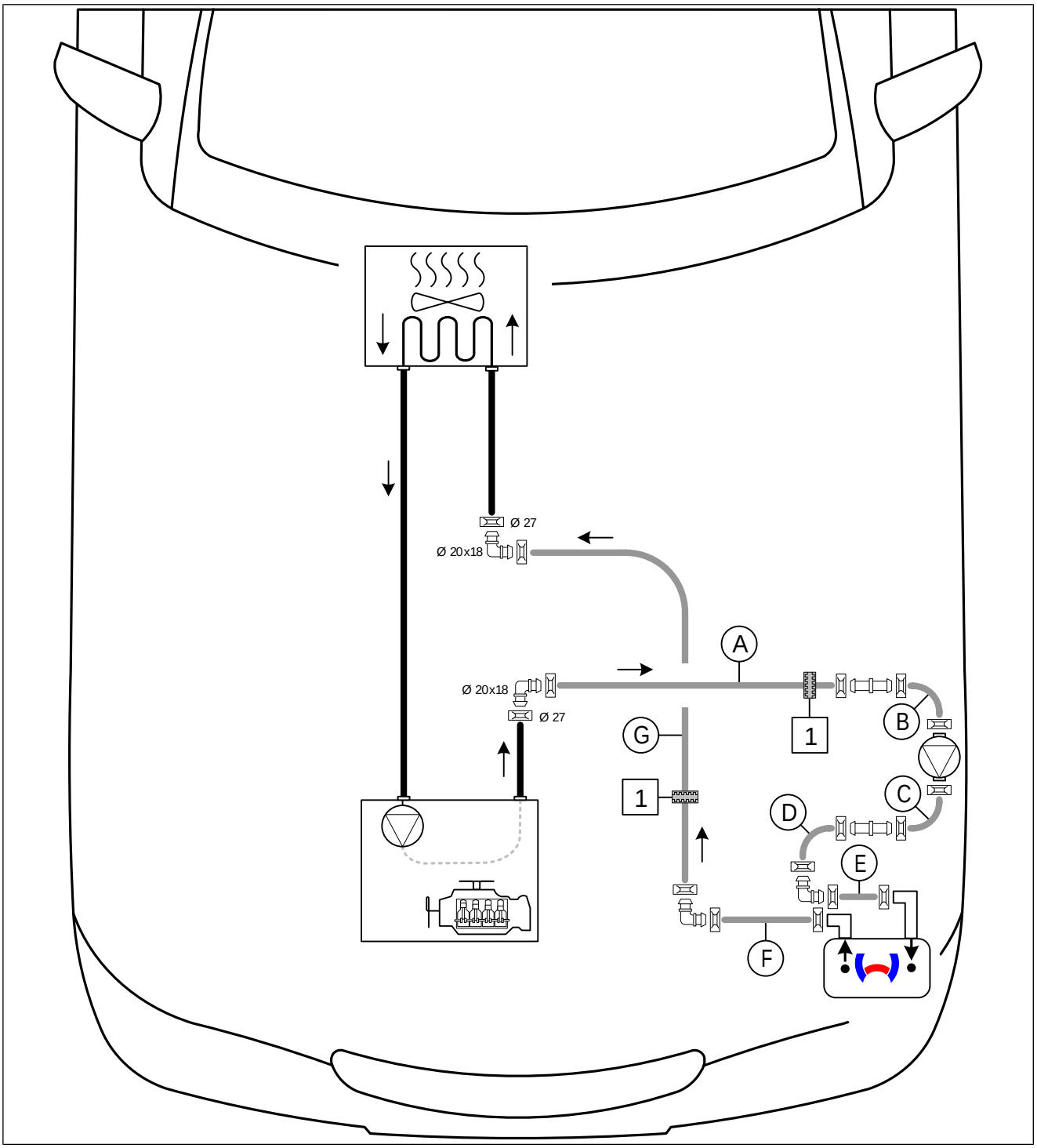



*Fig. 26*

All spring clips without a specific designation = Ø25;

All connecting pipes without a specific designation or = Ø18x18

1 Black (sw) rubber isolator

## 9.2 Coolant circuit installation

### Preparing hoses

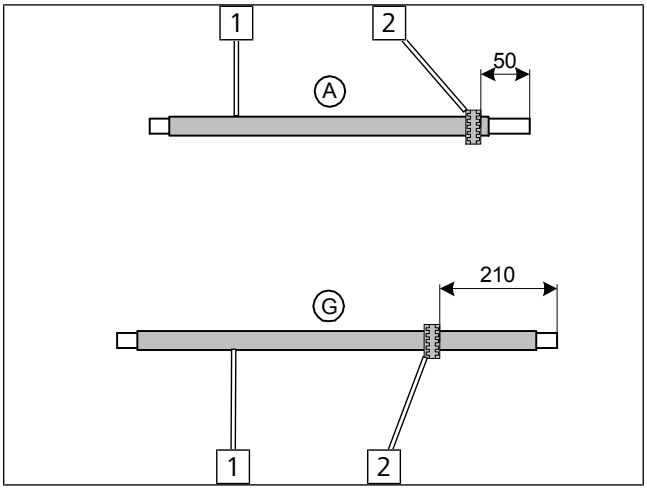



*Fig. 27*

Mount fabric heat shrink tubing 1.
- ▶ 1. Slide on and cut to length
- ▶ 2. Shrink, use at most 230 °C

▶ Position black (sw) rubber isolator 2 as shown.

### Premounting hoses

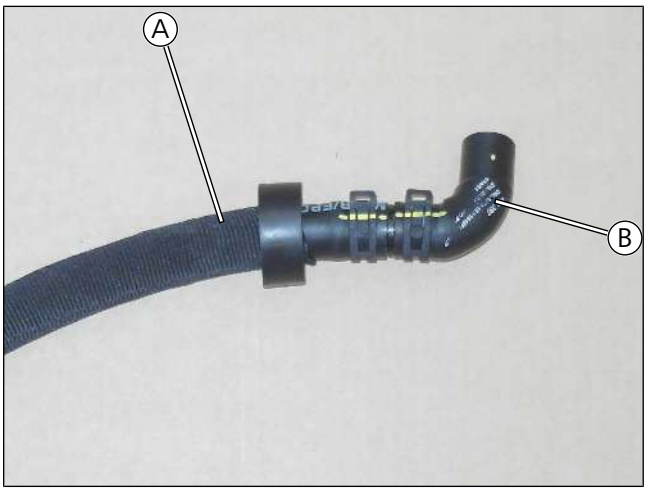



*Fig. 28*

### Mounting coolant pump

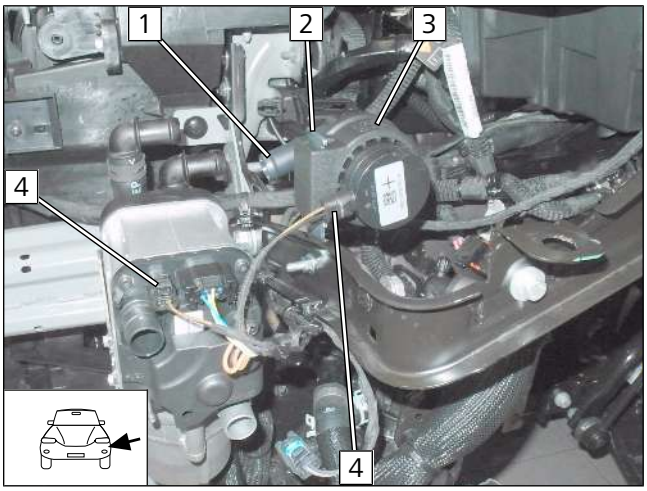



*Fig. 29*

1 Coolant pump
2 Premounted perforated bracket
3 Coolant pump mount
4 Coolant pump wiring harness connector

## Connecting hoses Ⓒ and Ⓓ

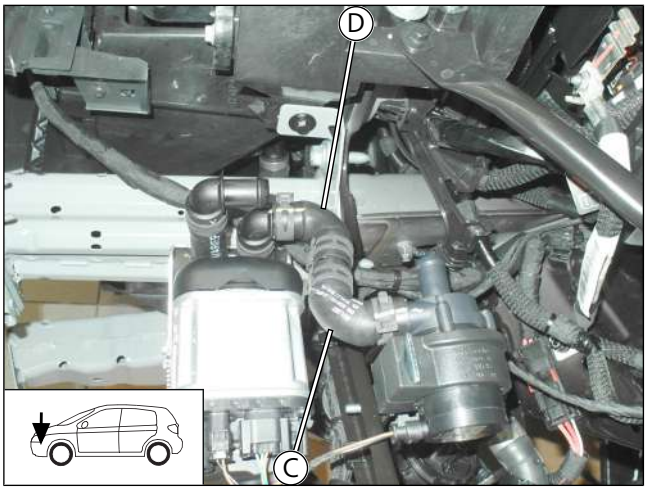



*Fig. 30*

## Fitting edge protection

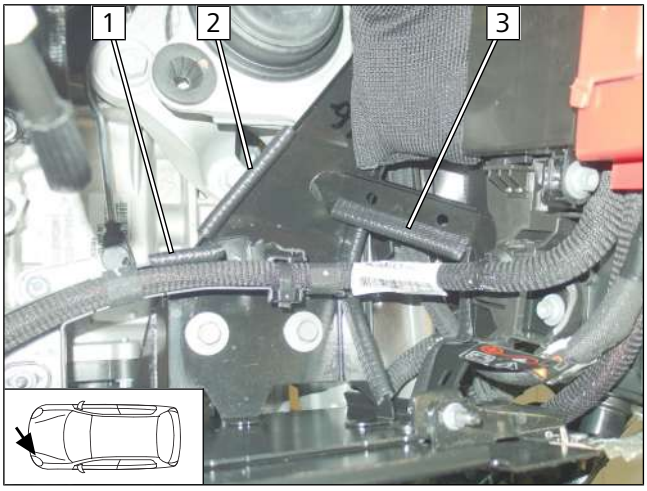



*Fig. 31*

1 40 edge protection
2 90 edge protection
3 90 edge protection

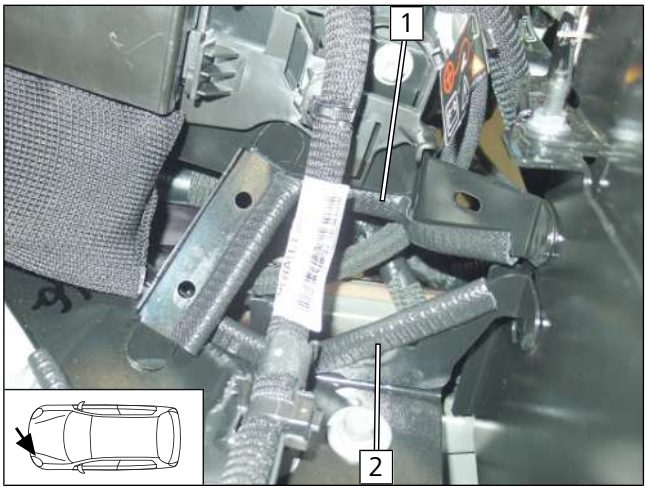



*Fig. 32*

1 130 edge protection
2 140 edge protection

## Removing cable tie

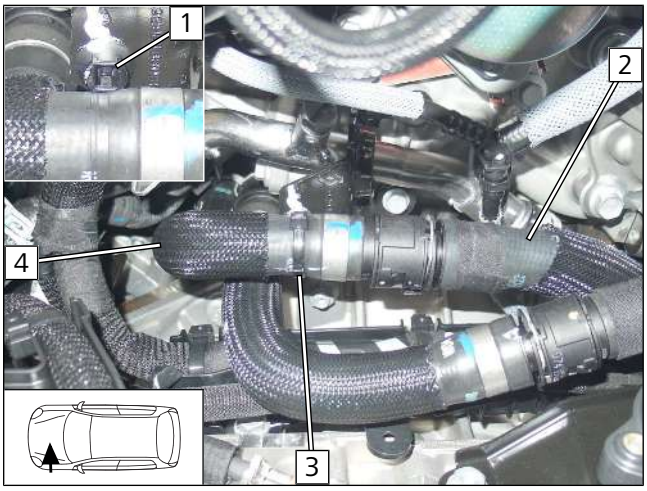



*Fig. 33*

▶ The socket of original vehicle cable tie **1** remains on the vehicle.

**2** Heat exchanger inlet hose

**3** Remove original vehicle cable tie

**4** Hose of engine outlet

## Cutting point

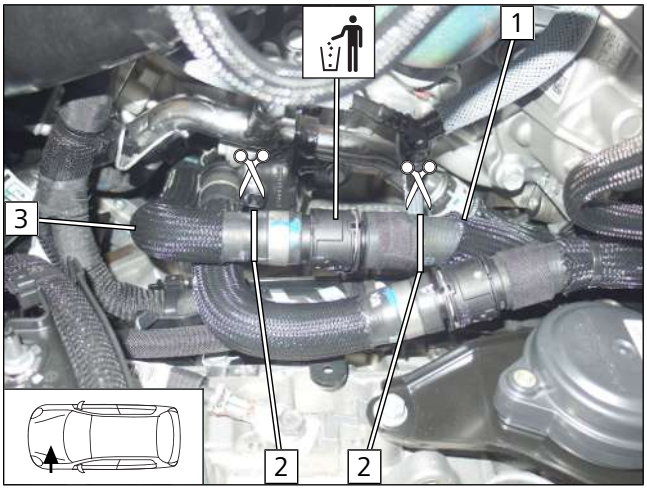



*Fig. 34*

▶ Cut engine outlet hose **3** and heat exchanger inlet hose **1** at positions **2**.

**2** Cutting point

## Connection of hose Ⓖ to hose Ⓕ

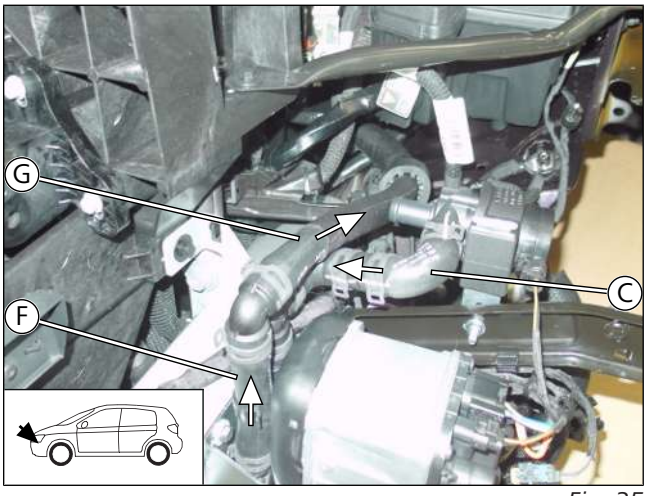



*Fig. 35*

## Routing hose Ⓖ

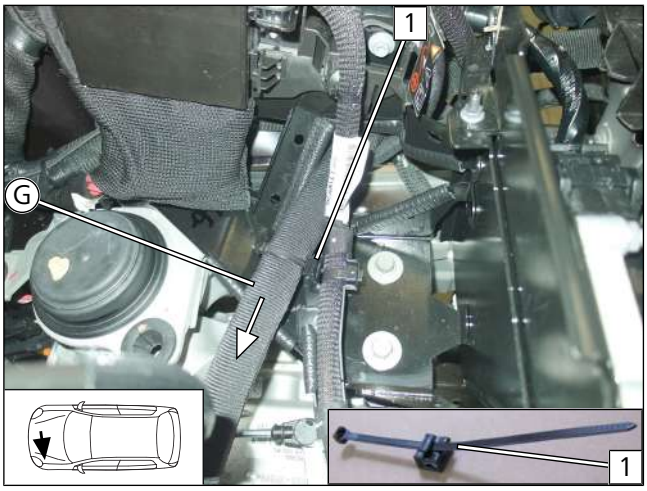



*Fig. 36*

▶ Route hose Ⓖ to the cutting point as shown and fasten using edge clip cable tie 1.

## Connecting premounted hoses Ⓐ and Ⓑ

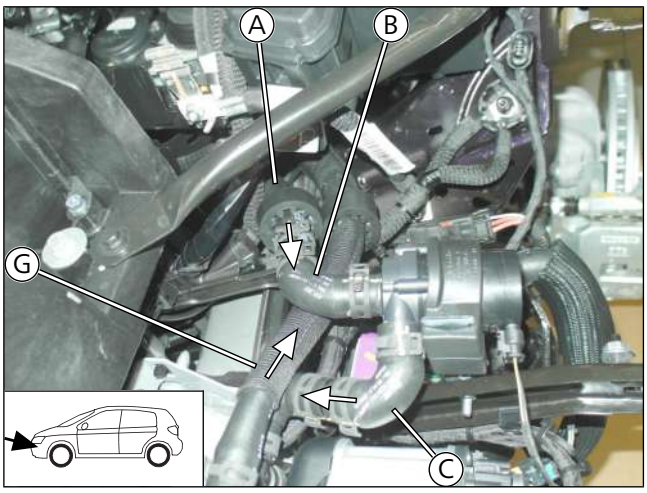



*Fig. 37*

## Fastening black (sw) rubber isolator

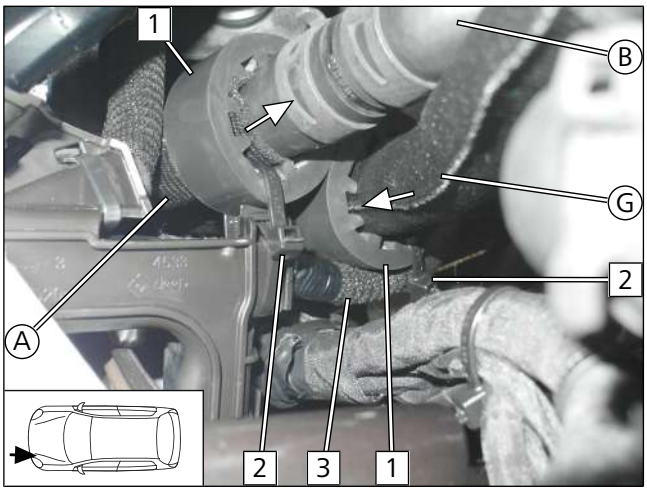



*Fig. 38*

▶ Fasten black (sw) rubber isolator 1 with cable tie 2 to original vehicle wiring harness 3 as shown.

## Routing hose Ⓐ

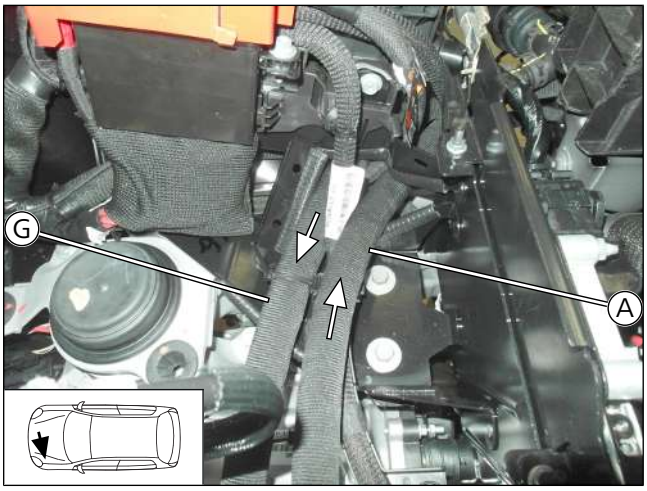



*Fig. 39*

▶ Route hose Ⓐ to the cutting point as shown.

## Engine outlet and heat exchanger inlet connection

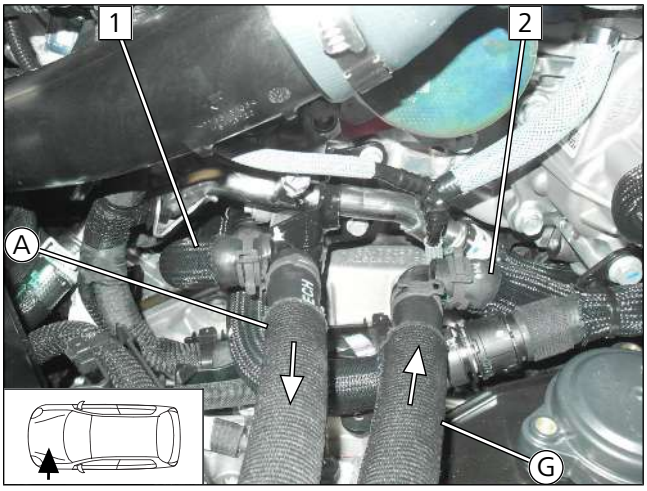



*Fig. 40*

**1** Engine outlet hose section

**2** Heat exchanger inlet hose section

## Fastening hoses

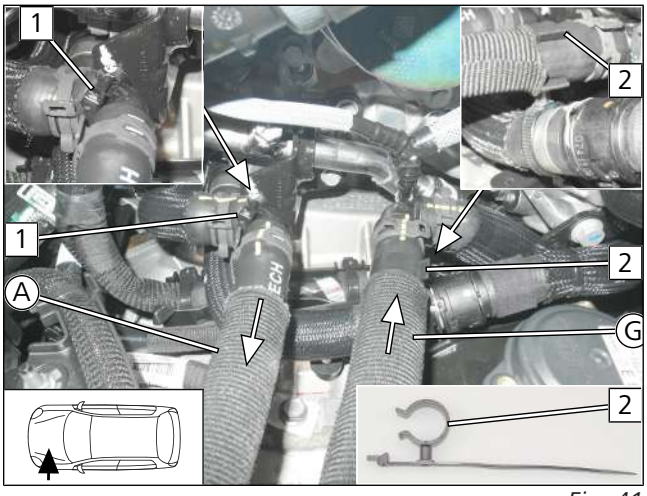



*Fig. 41*

▶ Thread cable tie **1** through socket of removed original vehicle cable tie and tie around the connecting pipe.

**2** Hose bracket with cable tie

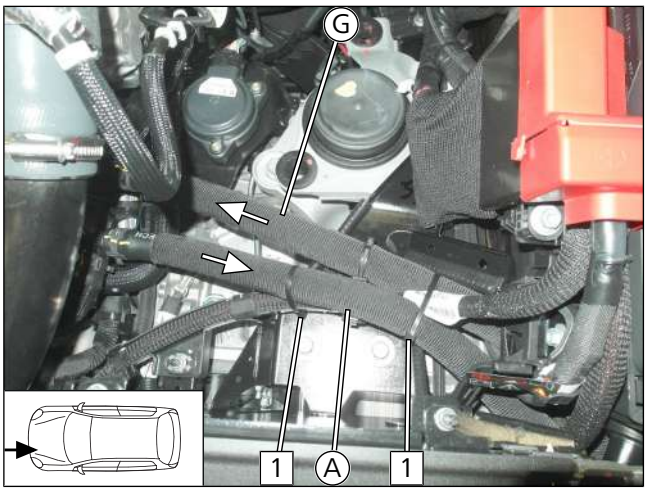



*Fig. 42*

Danger of damage to components

▶ Ensure sufficient distance from neighbouring components, correct if necessary.

1 Cable tie

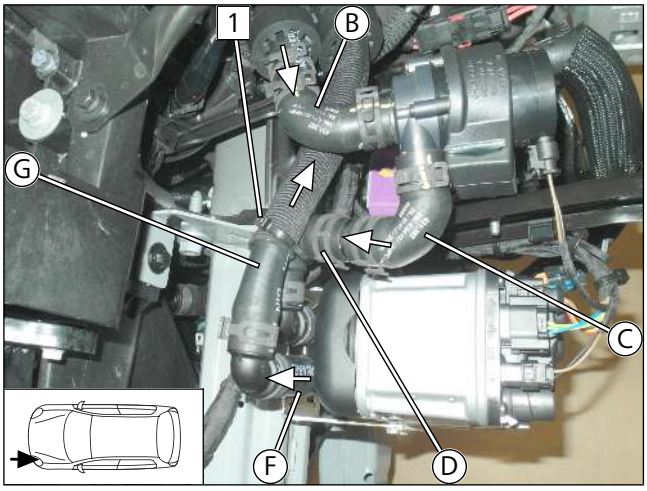



*Fig. 43*

1 Cable tie

# 10 Fuel

**DANGER**

**Risk of fire and explosion due to leaking fuel and escaping fuel vapours.**

The incorrect installation of the fuel extractor can cause damage and fire.

- ▶ Avoid electrostatic discharges and open fire
- ▶ When working on the fuel system, ensure sufficient ventilation and bleeding
- ▶ Open the fuel tank cap of the vehicle
- ▶ Ventilate the fuel tank
- ▶ Re-close the tank lock
- ▶ Catch any fuel running off with an appropriate container

**Danger of damage to components**

- ▶ Install fuel line and fuel pump wiring harness so that they are protected against stone impact
- ▶ Provide rub protection for fuel line and wiring harness in areas where there are sharp edges

Dismantling fuel pump connector X7

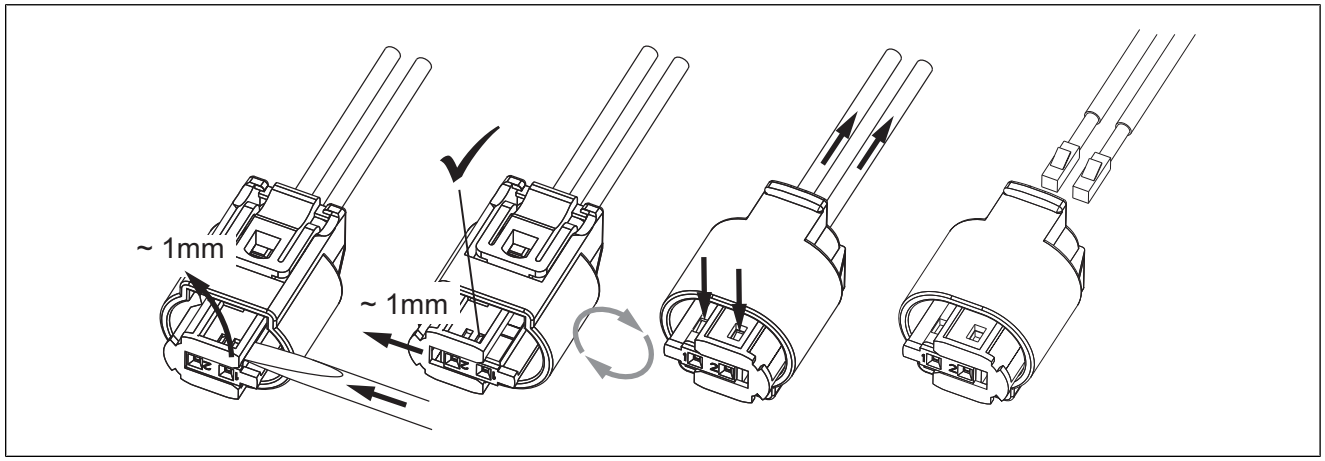



*Fig. 44*

## 10.1 Routing fuel line

Connecting heater

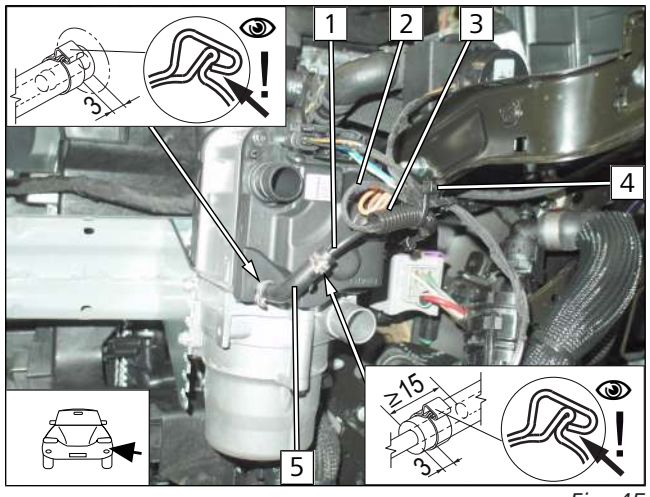



*Fig. 45*

- ▶ Draw fuel line [1] and fuel pump wiring harness [2] into Ø10 corrugated tube [3].

[4] Cable tie

[5] 90° moulded hose, Ø10 clamp [2x]

## Routing fuel line

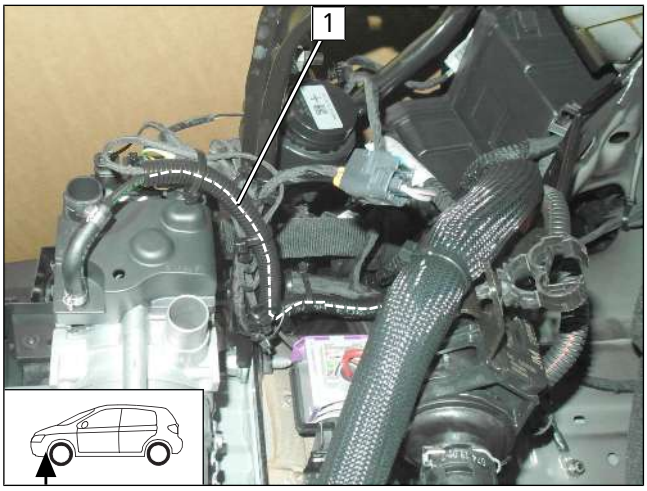



*Fig. 46*

▶ Route corrugated tube 1 with fuel line and fuel pump wiring harness along original vehicle lines in the engine compartment and fasten with cable ties.

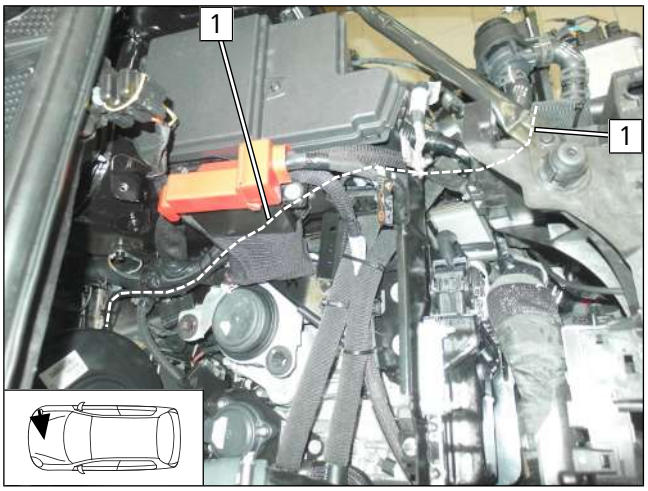



*Fig. 47*

▶ Route corrugated tube 1 with fuel line and fuel pump wiring harness along original vehicle lines to the bulkhead and further to the underbody and fasten with cable ties.

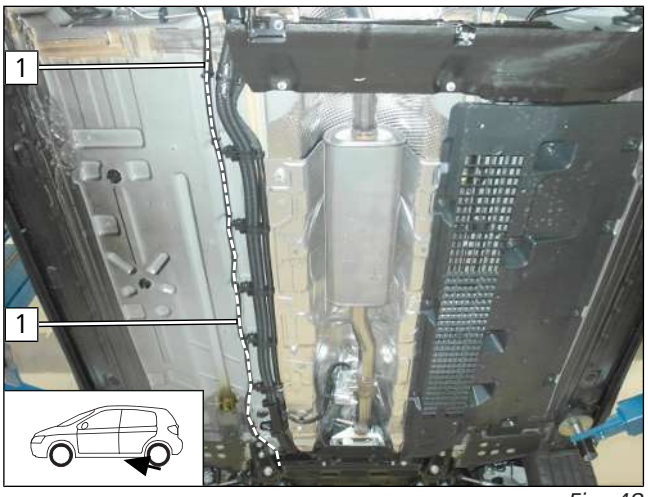



*Fig. 48*

▶ Route corrugated tube 1 with fuel line and fuel pump wiring harness along original vehicle lines to the installation location of the fuel pump and fasten with cable ties.

## Preparing fuel pump installation location

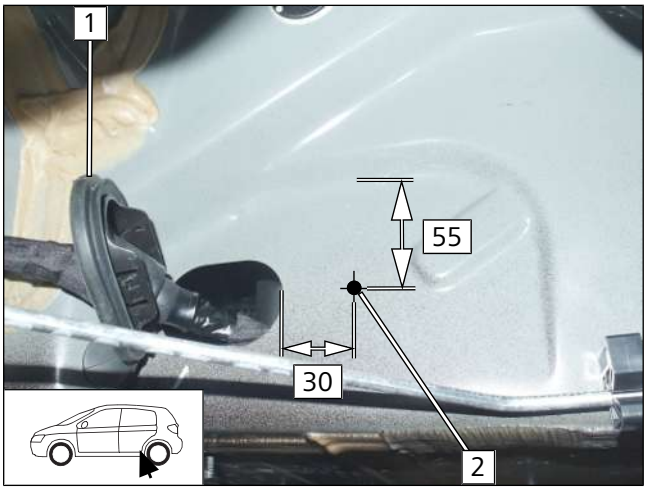



*Fig. 49*

▶ Remove original vehicle protective rubber plug [1] as shown, copy hole pattern [2].

## Inserting rivet nut

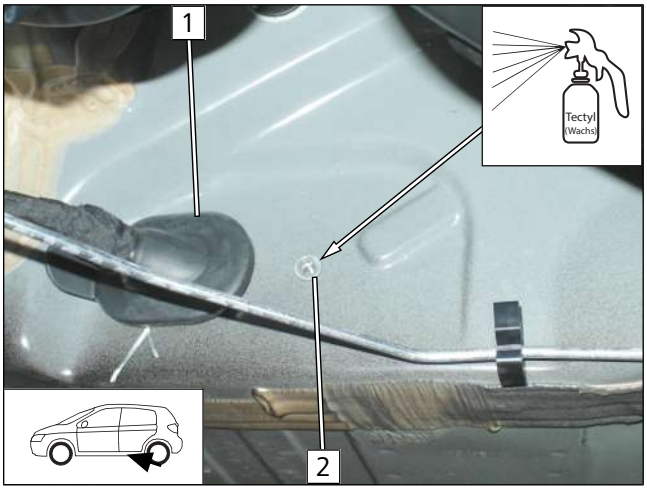



*Fig. 50*

Danger of damage to components

▶ When drilling, be careful of components located behind.

[2] Ø9 hole, rivet nut

▶ Mount original vehicle protective rubber plug [1].

## Premounting fuel pump

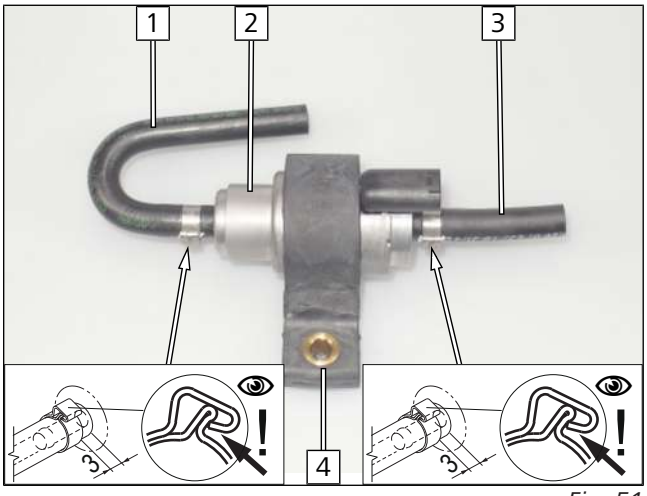



*Fig. 51*

[1] 180° moulded hose, Ø10 clamp
[2] Fuel pump
[3] Hose section, Ø10 clamp
[4] Fuel pump mount

Preparing fuel pump perforated bracket

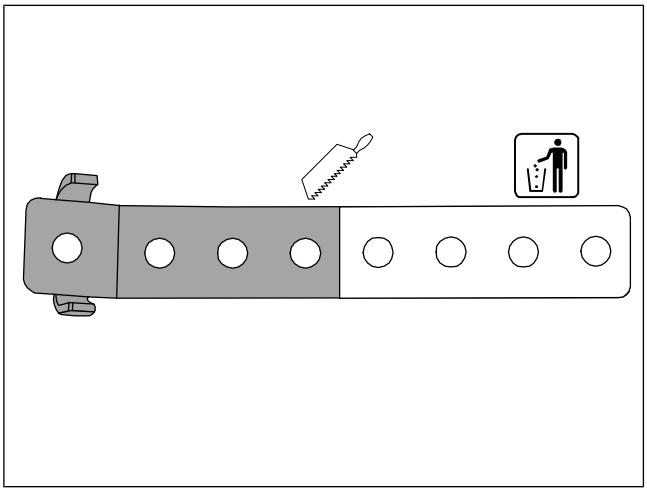


*Fig. 52*

Mounting fuel pump

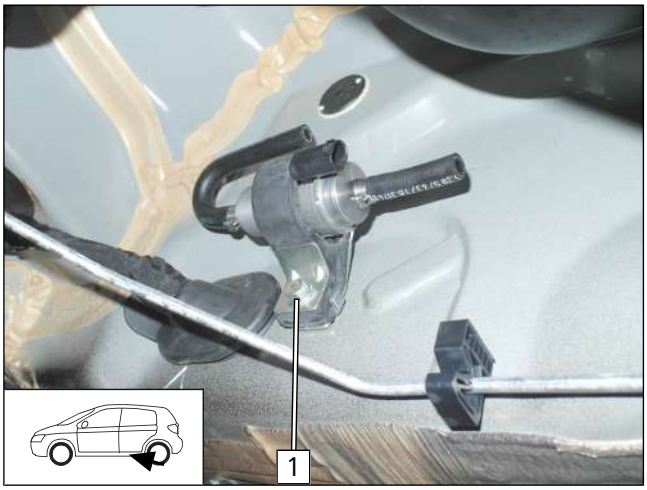



*Fig. 53*

1 M6x25 bolt, support angle bracket, premounted fuel pump, prepared perforated bracket, rivet nut

Assembling fuel pump connector

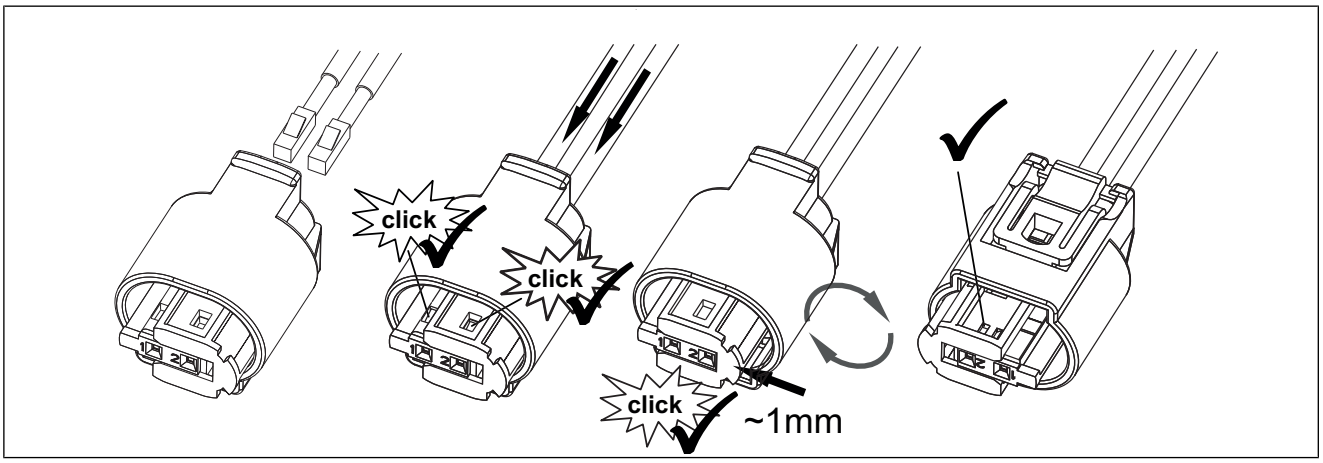



*Fig. 54*

Fuel pump connection

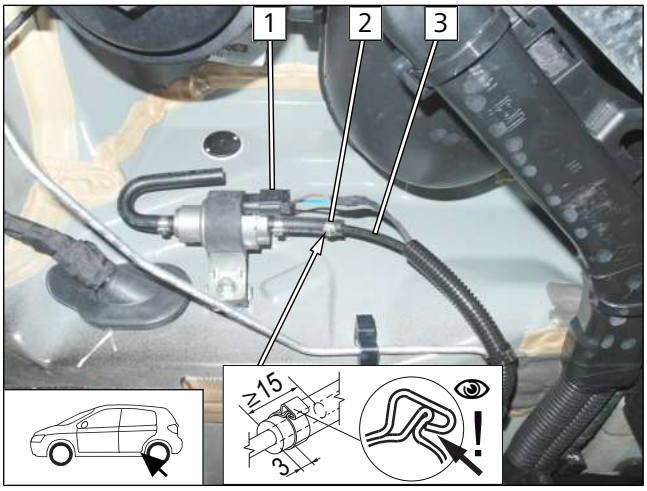



*Fig. 55*

1 Fuel pump wiring harness, connector X7 mounted
2 Ø10 clamp
3 Heater fuel line

## 10.2 Installing FuelFix

Preparing fuel line

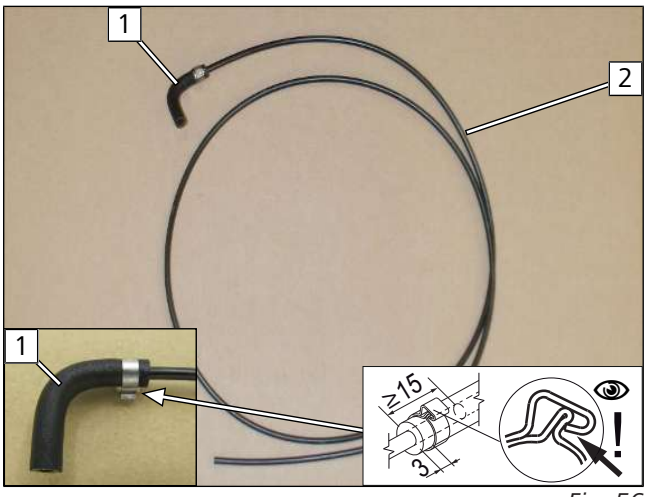



*Fig. 56*

1 90° moulded hose, Ø10 clamp
2 Fuel line

View of drilling template

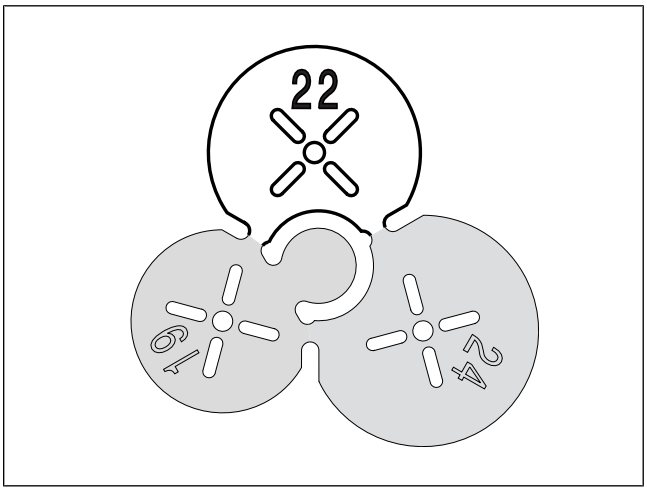



*Fig. 57*

## Work steps F1, F2

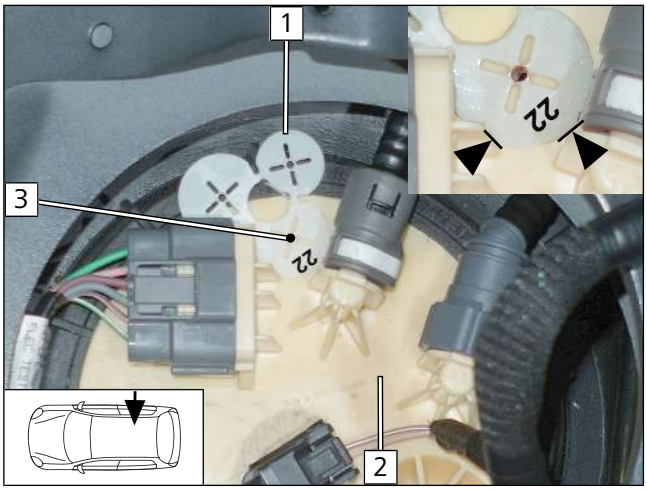



*Fig. 58*

Observe the installation instructions of the tank extracting device.

▶ Position template [1] at the raised parts as shown.

[2] Tank fitting

[3] Copy hole pattern

## Work step F3

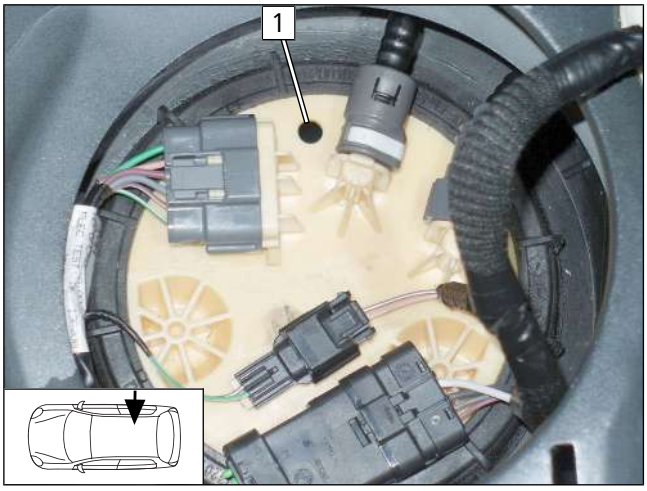



*Fig. 59*

**DANGER**

Risk of fire and explosion due to leaking fuel and escaping fuel vapours.

[1] Hole made with provided drill

## Work steps F4, F5

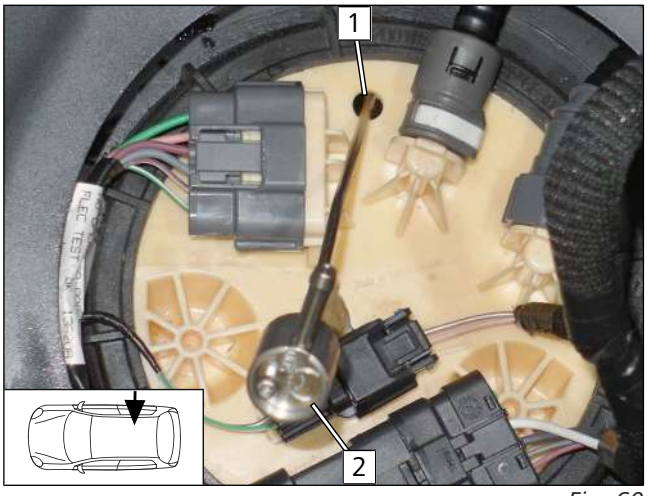



*Fig. 60*

▶ Bend FuelFix [2] according to template and cut to length. Insert in hole [1].

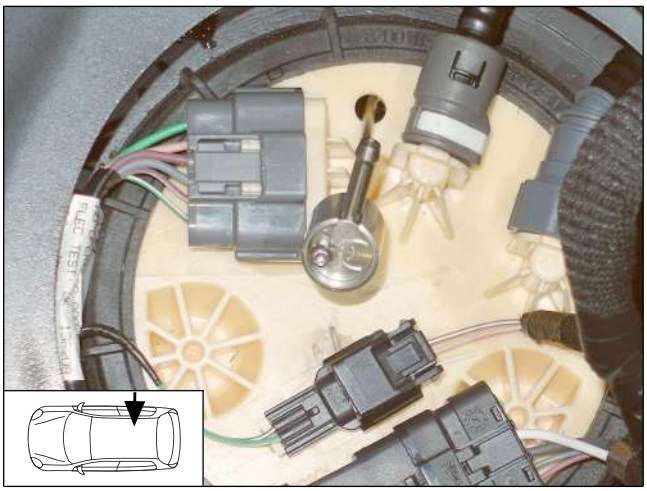


*Fig. 61*

## Work steps F5.3, F5.4

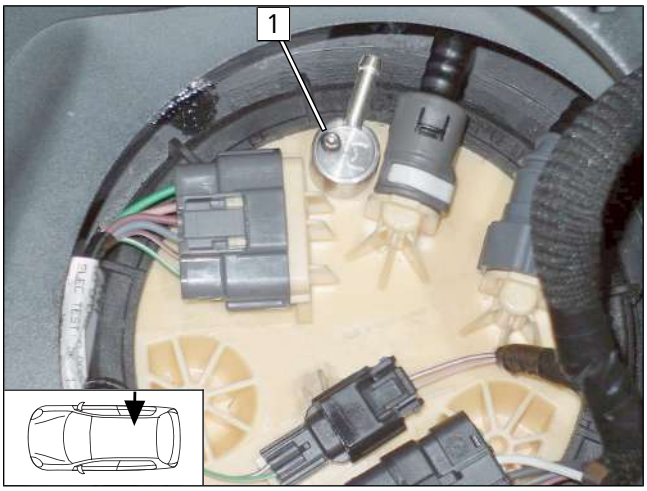



*Fig. 62*

▶ Align FuelFix 1 as shown.

## Work step F6

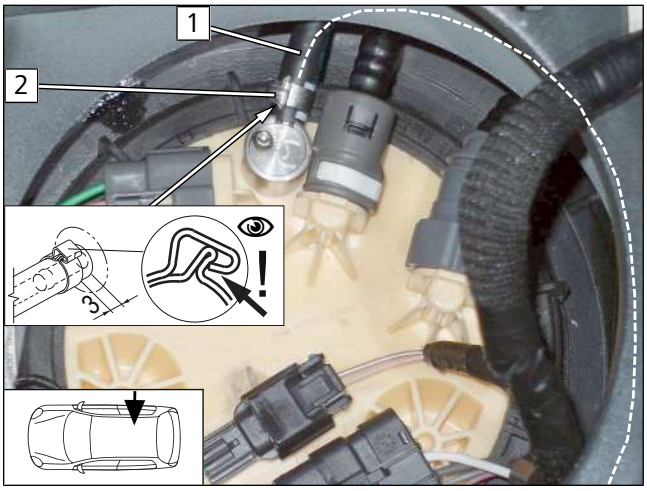



*Fig. 63*

1 Prepared fuel line
2 Ø10 clamp

## Work step F7

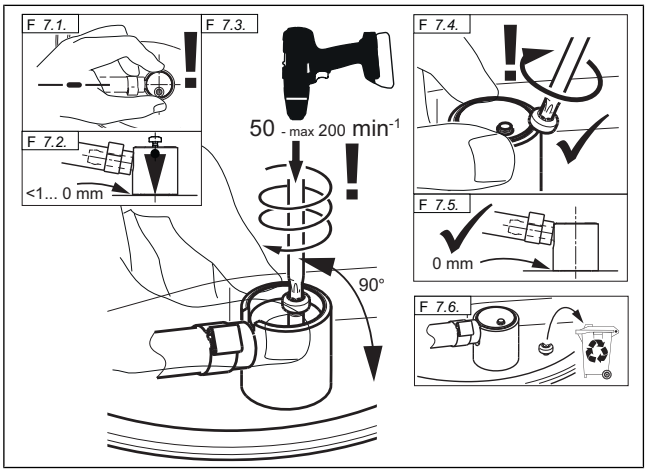



*Fig. 64*

**DANGER**

Risk of fire and explosion due to leaking fuel and escaping fuel vapours

## Work step F8

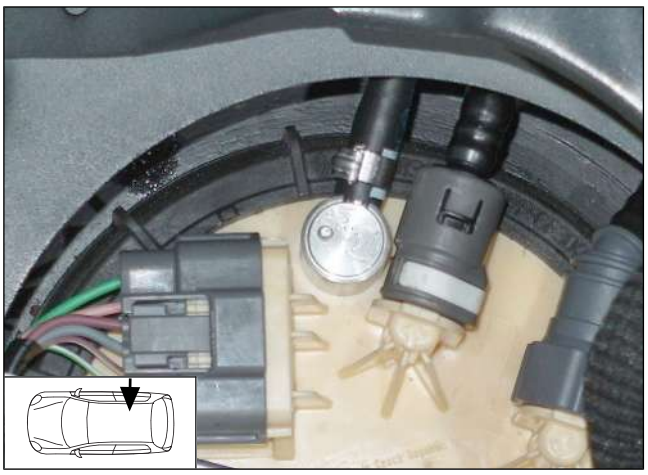


*Fig. 65*

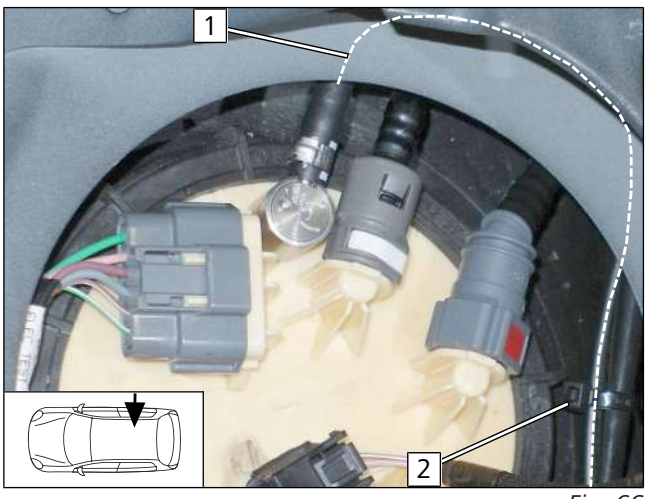



*Fig. 66*

▶ Secure fuel line [1] using cable tie [2] for tension relief.

## 10.3 Fuel pump connection

### Routing fuel line

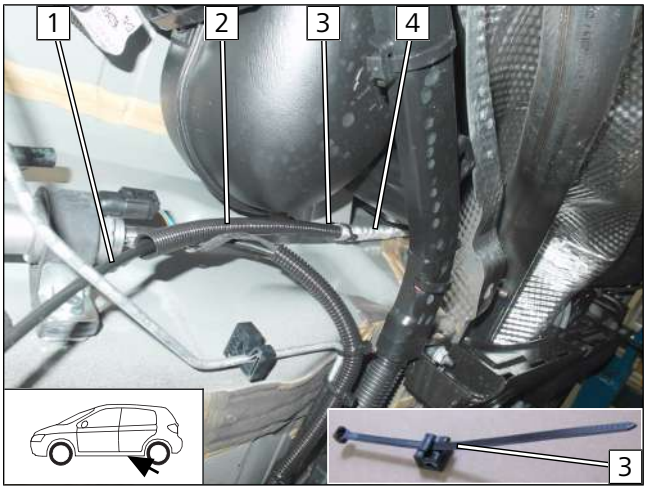



*Fig. 67*

- ▶ Relocate fuel line of FuelFix [1] in 800 long corrugated tube [2].
- ▶ Slide 450 long heat protection [4] over corrugated tube [2] and fasten with edge clip cable tie [3] as shown.

### Connecting fuel line of FuelFix

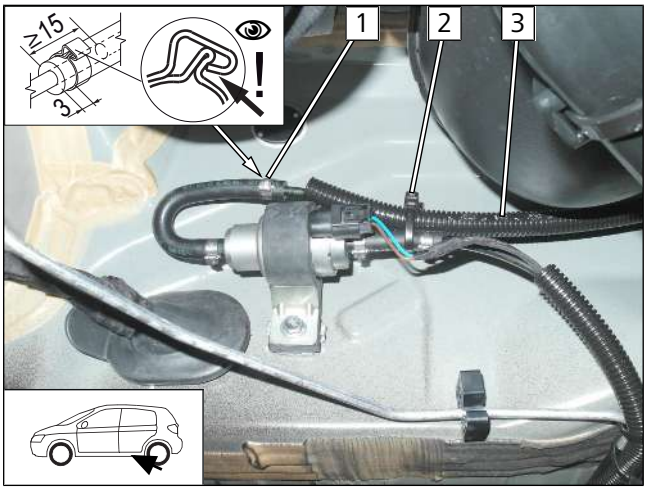



*Fig. 68*

- [1] Ø10 clamp
- [2] Cable tie
- [3] Corrugated tube with fuel line of FuelFix

# 11 Combustion air

Assigning combustion air intake pipe

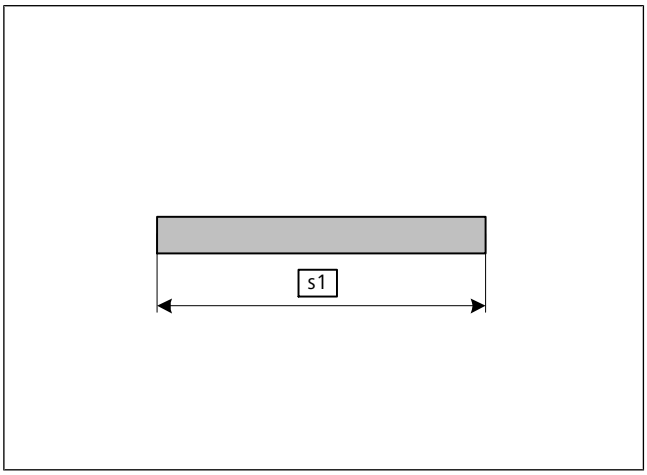



*Fig. 69*

**s1** 210

Mounting angle bracket

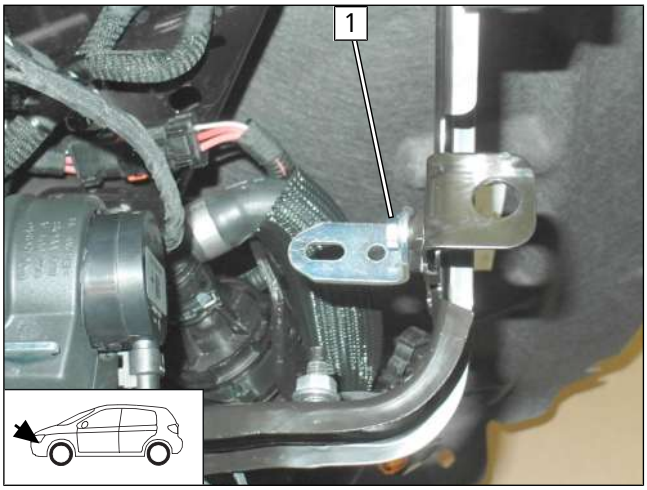



*Fig. 70*

**1** Original vehicle bolt, angle bracket, flanged nut

Mounting combustion air intake pipe **s1**

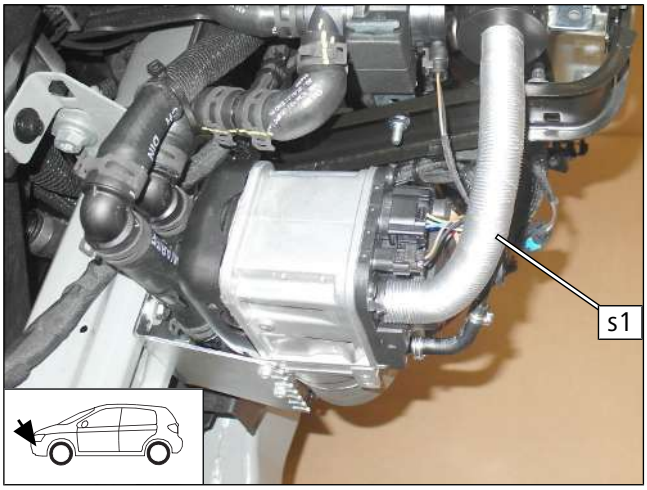



*Fig. 71*

Observe the installation instructions of the combustion air intake silencer.

## Mounting combustion air intake silencer

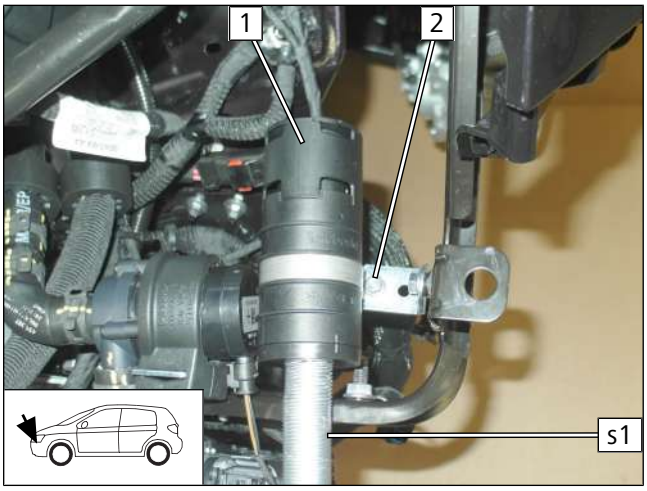



*Fig. 72*

1 Combustion air intake silencer

2 M5x16 bolt, large diameter washer, angle bracket, Ø51 clamp, nut

# 12 Exhaust

## 12.1 Mounting exhaust pipe

Cutting exhaust pipe to length

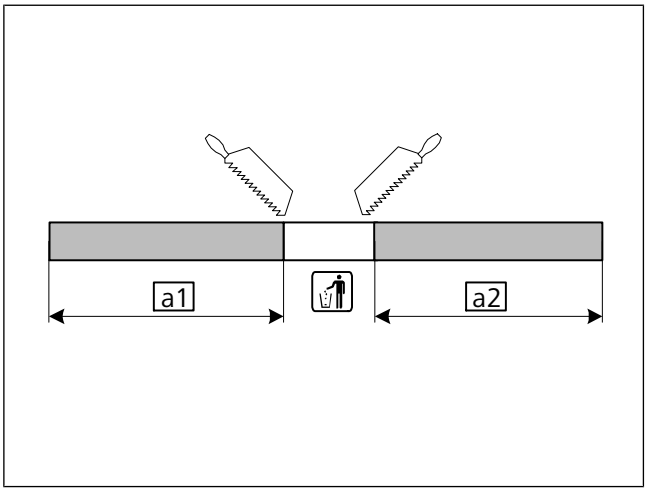



Fig. 73

**a1** 380
**a2** 330

Preparing exhaust pipe **a2**

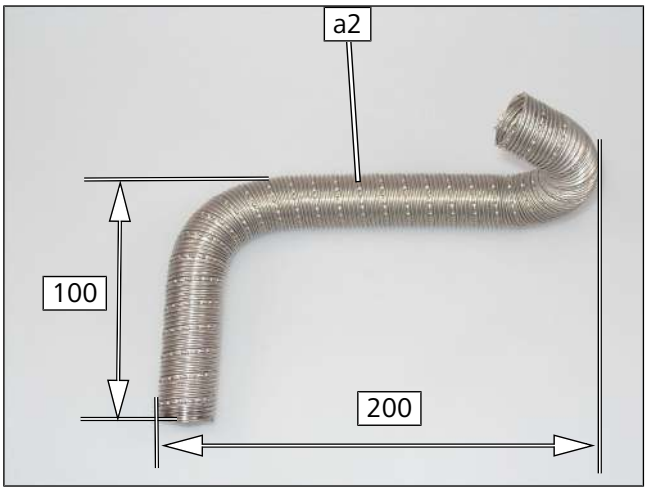



Fig. 74

Inserting rivet nut

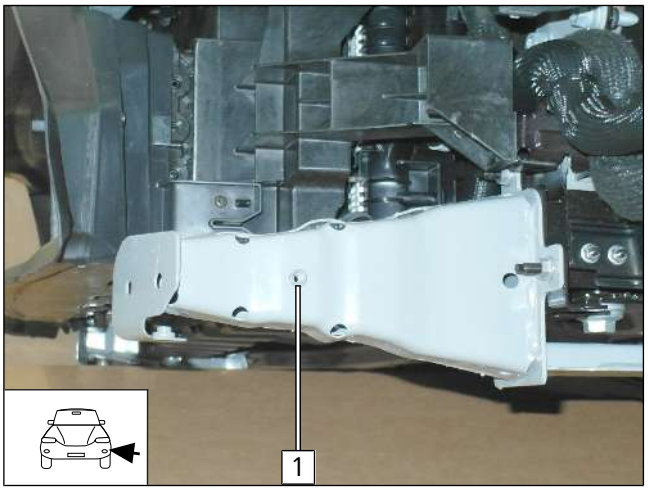



Fig. 75

**1** Rivet nut, original vehicle hole

## Mounting exhaust silencer

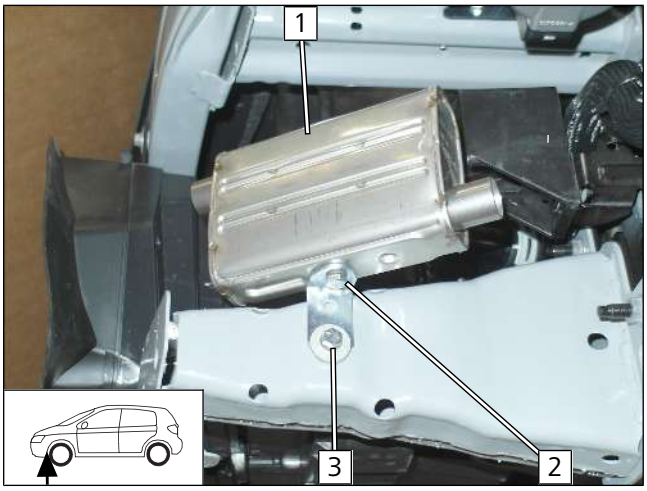



*Fig. 76*

1 Exhaust silencer
2 Mount M6x16 bolt, spring lock washer, angle bracket loosely
3 M6x20 bolt, spring lock washer, large diameter washer, angle bracket, rivet nut

## Aligning exhaust silencer

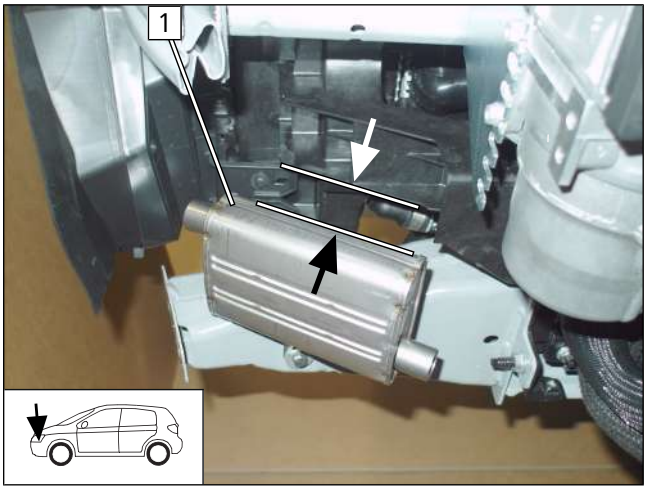



*Fig. 77*

▶ Align exhaust silencer 1 parallel to vehicle as shown and tighten M6x16 bolt.

## Mounting exhaust pipe a1

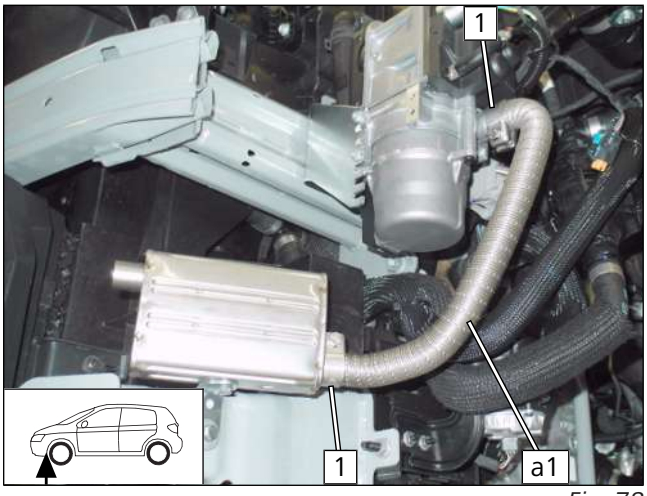



*Fig. 78*

1 Hose clamp

Mounting exhaust pipe **a2**

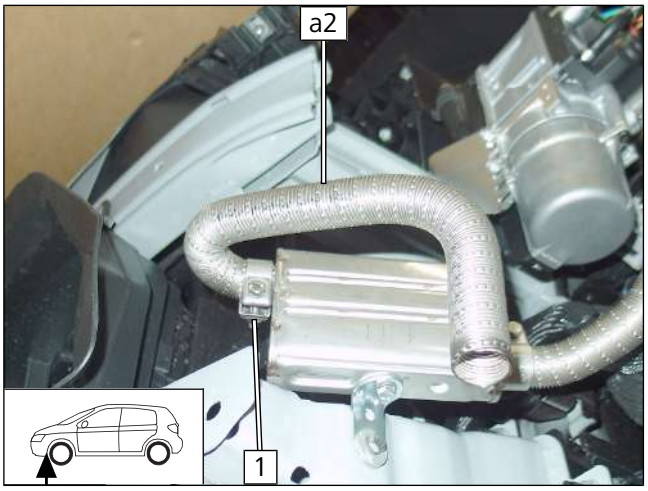



*Fig. 79*

**1** Hose clamp

## 12.2 Mounting exhaust end fastener

Removing lower bumper trim

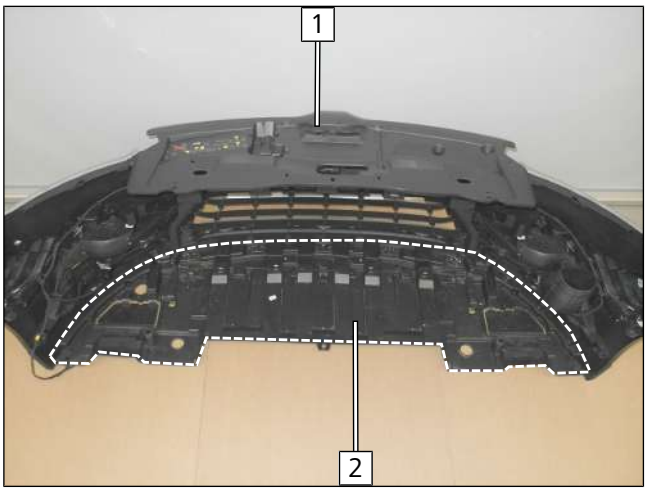



*Fig. 80*

▶ Detach lower bumper trim **2** from bumper trim **1**.

Shortening EFIX

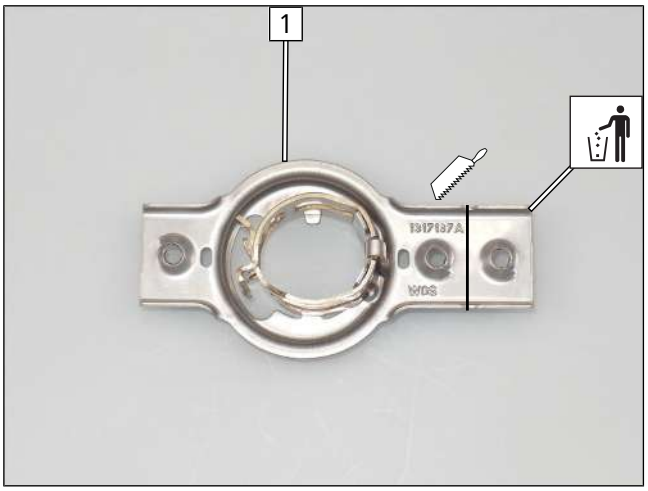



*Fig. 81*

**1** EFIX

## Work step E1

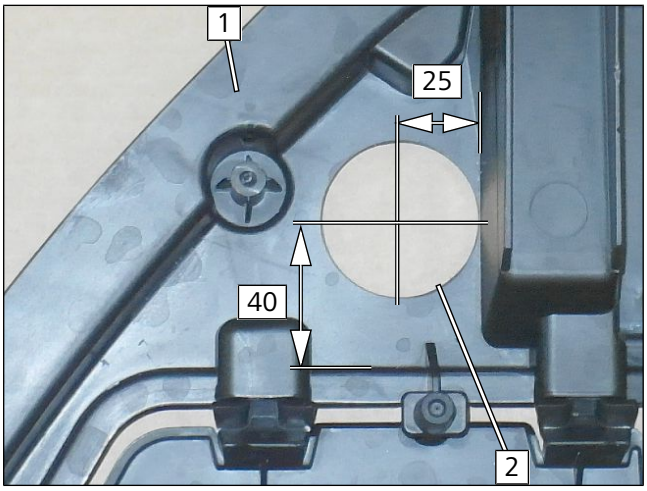



*Fig. 82*

Observe the EFIX installation instructions.

1 Underride protection
2 Hole

## Work step E3

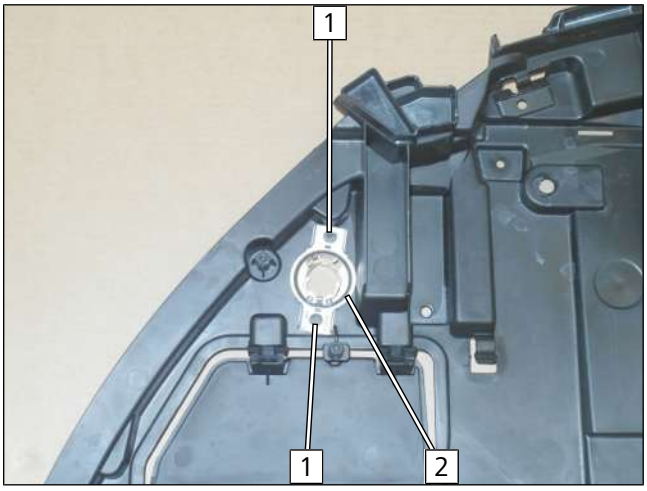



*Fig. 83*

1 Copy hole pattern
2 EFIX

## Work step E4

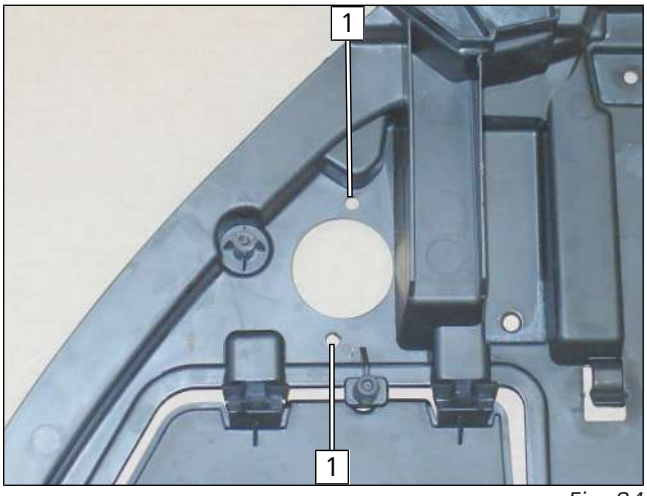



*Fig. 84*

1 Hole

Work step E5

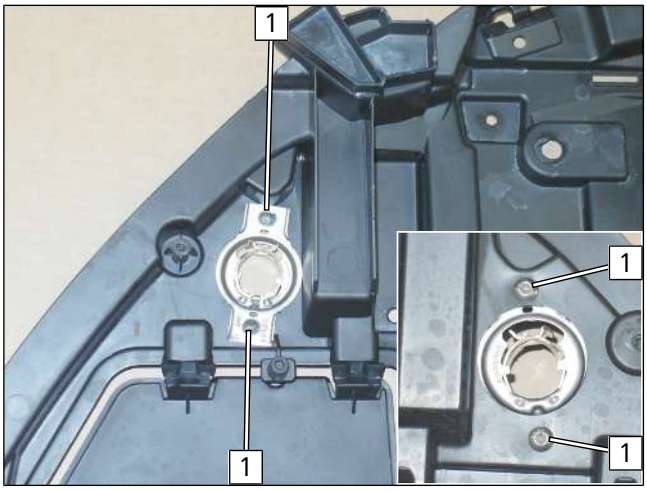



*Fig. 85*

1 5x13 self-tapping screw

# 13 Final work in engine compartment

## Adapting horn bracket

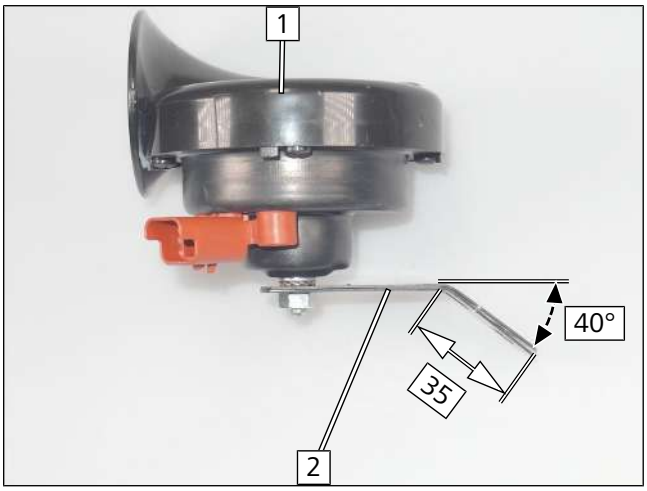



*Fig. 86*

1 Horn
2 Horn bracket

## Mounting horn

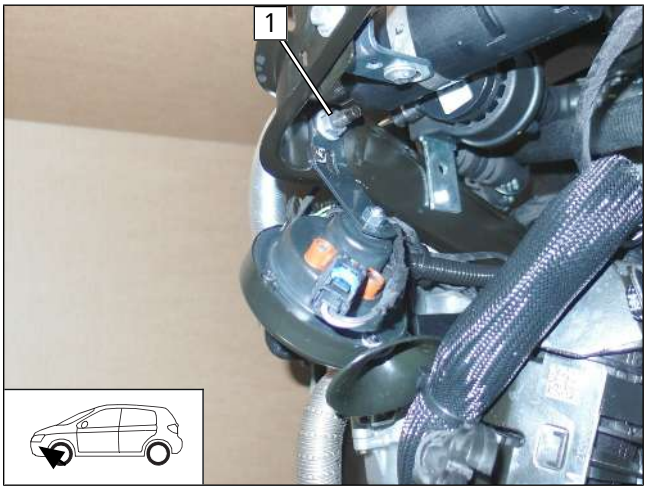



*Fig. 87*

1 Original vehicle bolt, horn, original vehicle nut

## Work step E6-8

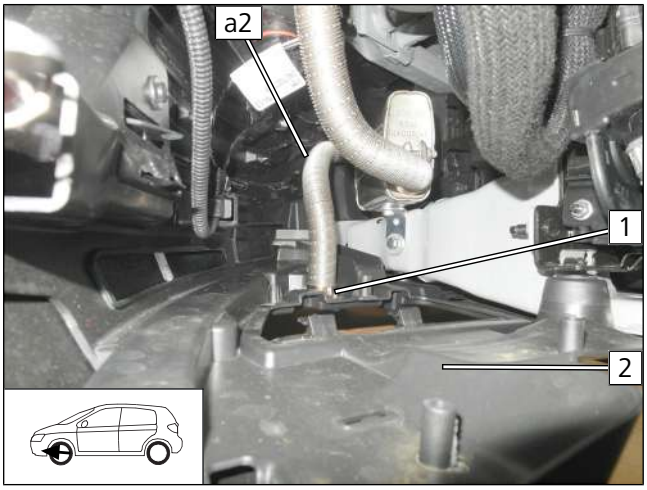



*Fig. 88*

Observe the EFIX installation instructions.

- ▶ Assemble bumper trim and lower bumper trim 2.
- ▶ Mount exhaust pipe a2 in EFIX 1 as shown.

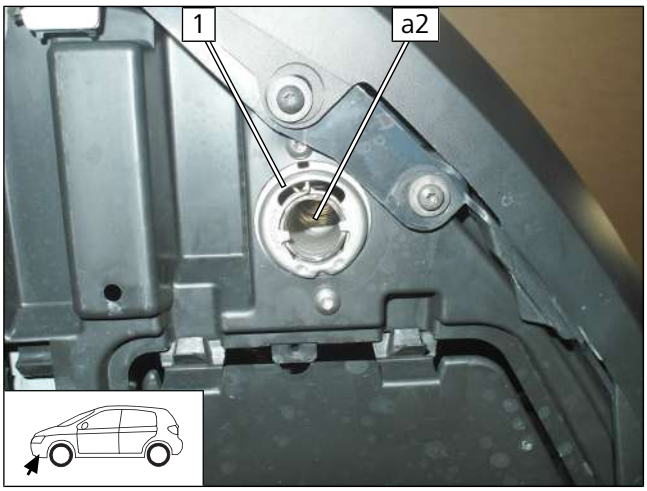



*Fig. 89*

Danger of damage to components

- Ensure sufficient distance between exhaust pipe **a2** and neighbouring components, correct if necessary.

**1** EFIX

# 14 Electrical system of passenger compartment

## 14.1 Air-conditioning control

Integrate the air-conditioning control as per the separate installation documentation:

'**Webasto Standard**' A/C control installation documentation for Renault Espace with AAC

'**Webasto Comfort**' A/C control installation documentation for Renault Espace with AAC

# 15 Electrical system of control elements

## 15.1 MCC option

Mounting MCC

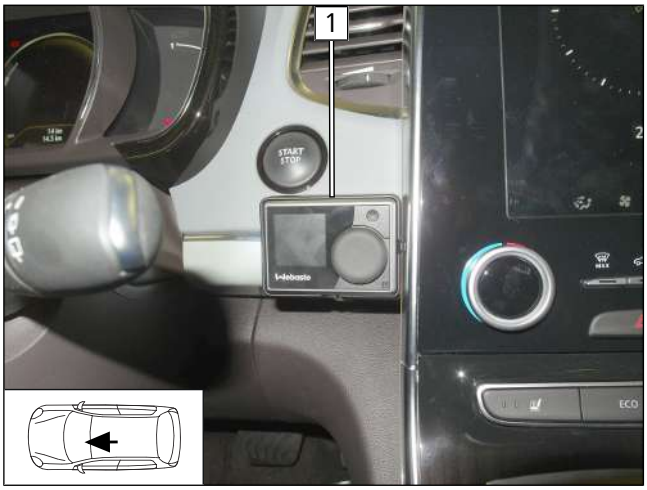



*Fig. 90*

Observe the MultiControl CAR installation documentation.

1 MCC installation frame

## 15.2 Remote option (Telestart)

Premounting receiver

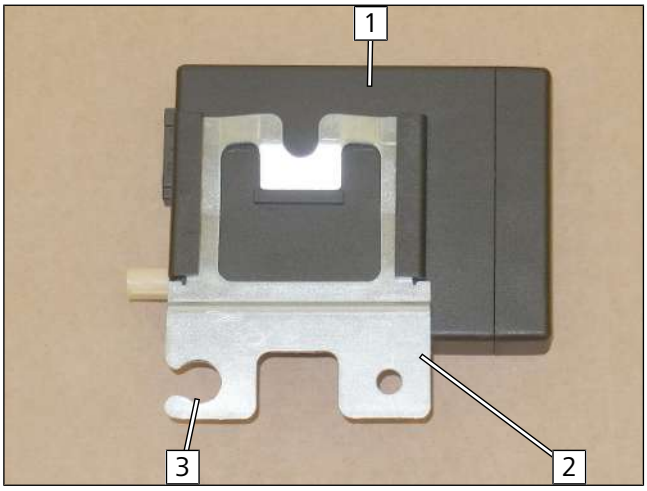



*Fig. 91*

Observe the Telestart installation documentation.

1 Receiver
2 Bracket
4 Ø8.5 hole

Mounting receiver

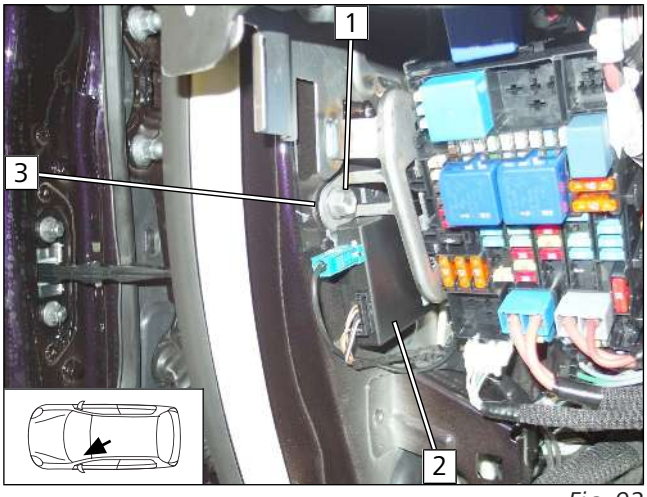



*Fig. 92*

▶ Remove original vehicle bolt 1. Insert Telestart bracket between vehicle and original vehicle retaining plate at position 3 and fasten with original vehicle bolt.

2 Receiver

Mounting aerial

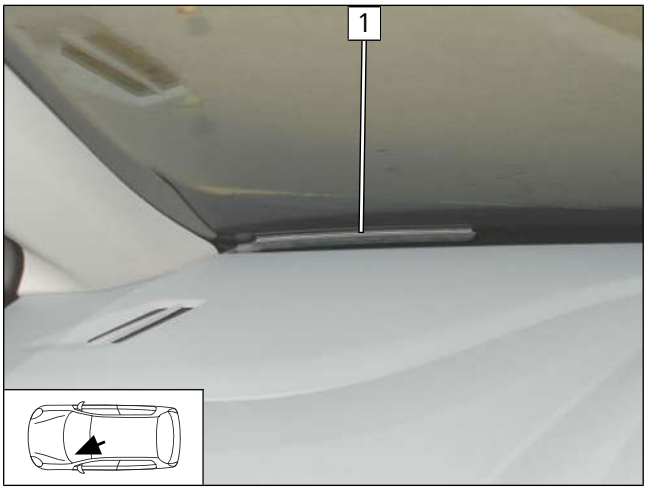



*Fig. 93*

1 Aerial

Mounting temperature sensor, only in case of T100 HTM

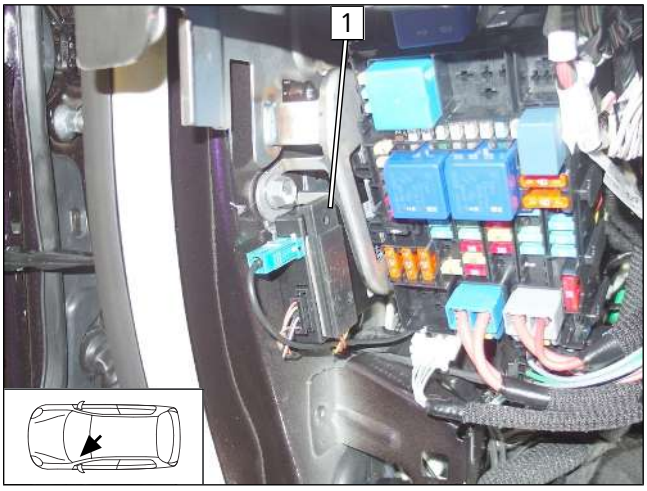



*Fig. 94*

▶ Fasten temperature sensor 1 using double-sided adhesive tape.

## 15.3 ThermoCall option

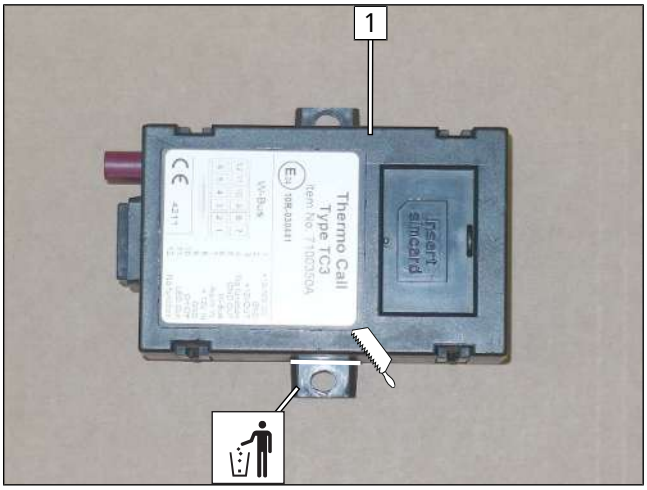



*Fig. 95*

Observe the ThermoCall installation documentation.

## Mounting receiver

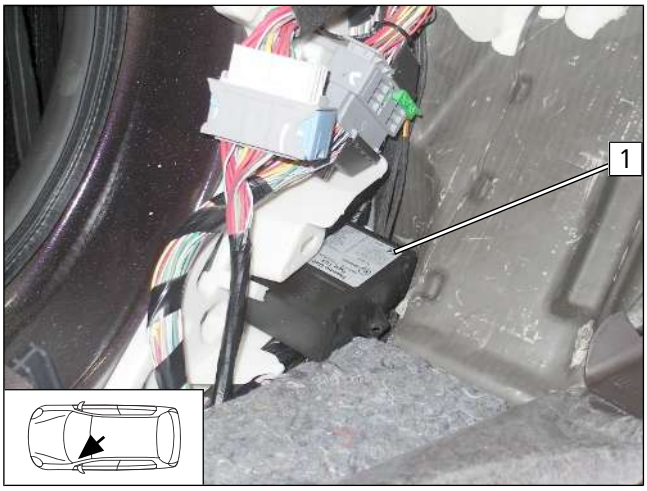



*Fig. 96*

▶ Fasten receiver **1** using double-sided adhesive tape.

## Mounting aerial (optional)

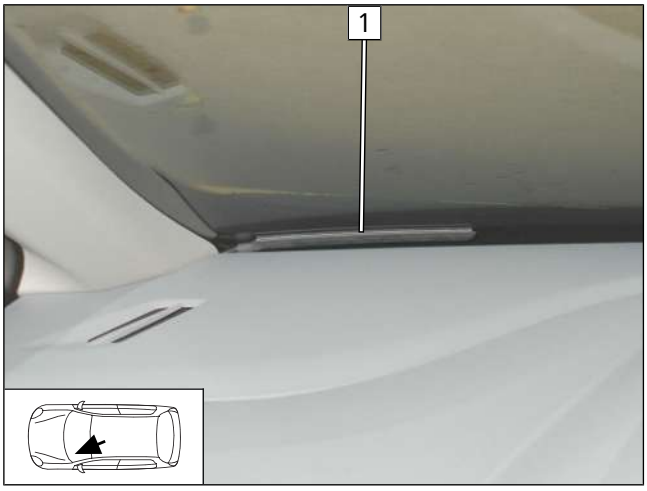



*Fig. 97*

**1** Aerial

# 16 Final Work

Further information can be found in the vehicle manufacturer's technical documentation.

- ▶ Mount removed parts in reverse order.

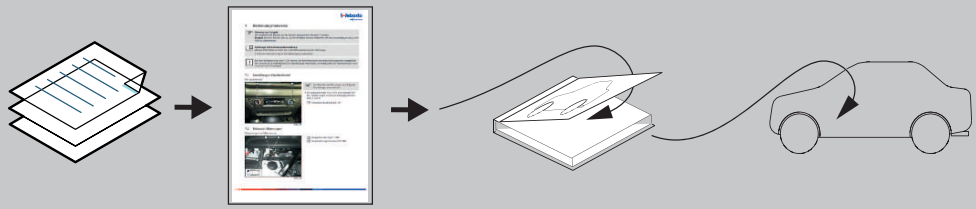
- ▶ Check all hoses, clamps and all electrical connections for firm seating.
- ▶ Insulate and tie back loose lines
- ▶ Spray heater and electrical components with anti-corrosion wax (Tectyl 100K).
- ▶ Connect the battery.


**Only use manufacturer-approved coolant.**

- ▶ Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.

Further information can be found in the general installation and operating instructions of the Webasto components.

- ▶ Program MultiControl CAR, teach Telestart transmitter
- ▶ If the fan function or A/C control panel settings need to be checked, see the installation documentation in the additional 'Webasto Standard' A/C control or 'Webasto Comfort' kit, section Final work
- ▶ Initial start-up and function check
- ▶ Affix 'Switch off parking heater before refueling' caution label in area of filler neck



These are the original instructions. The German language is binding.
You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.



Webasto Thermo & Comfort SE
Postfach 1410
82199 Gilching
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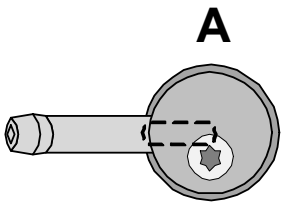
Company address:
Friedrichshafener Str. 9
82205 Gilching
Germany

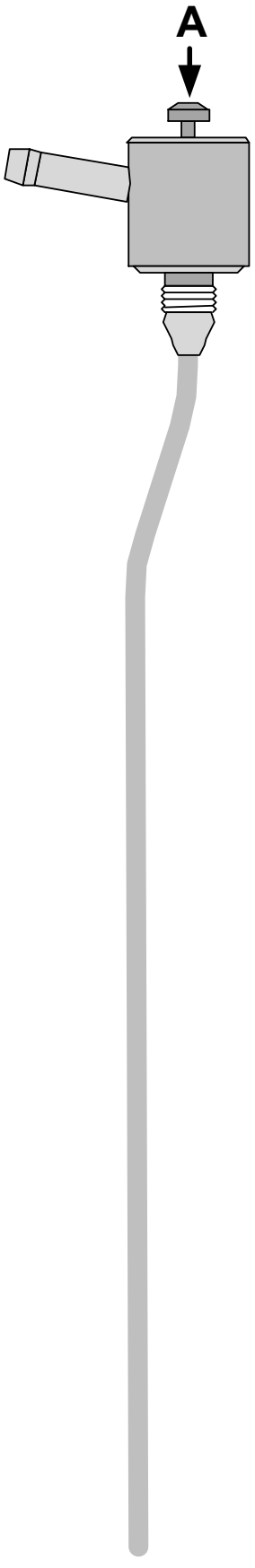
Technical Extranet: https://dealers.webasto.com

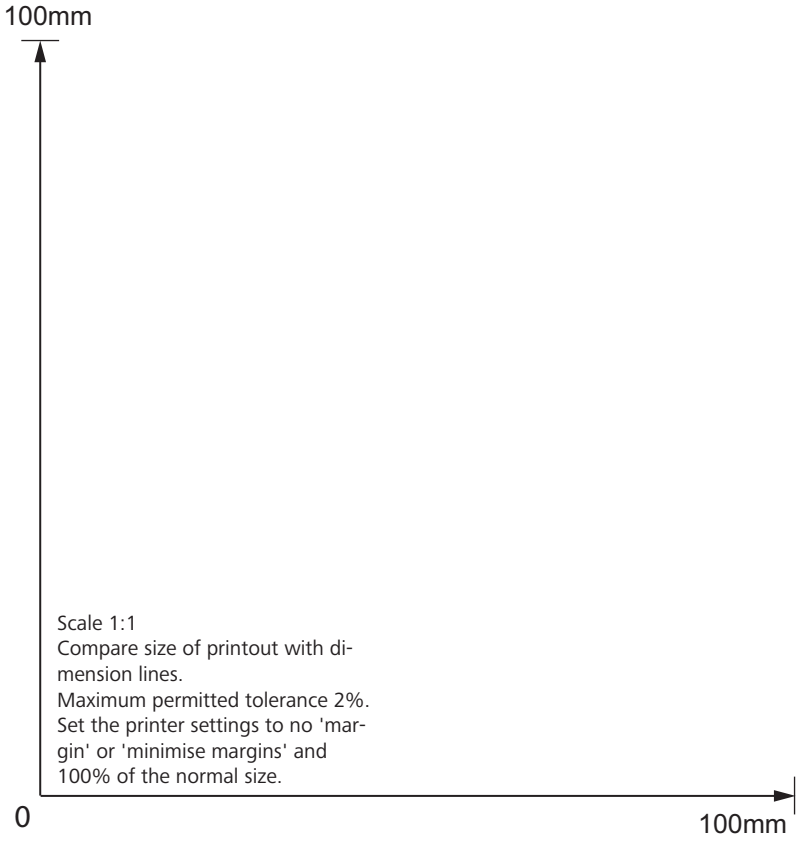
CE

WWW.WEBASTO.COM

# 17 FuelFix template

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