EN

K Installation documentation

for Thermo Top Evo water heater

Renault Megane

Left-hand drive vehicle

Manufacturer	Model	Type	Model year	EG-BE-No. / ABE
Renault	Megane	RFB	from 2018	e2* 2007/46* 0546*…

Motorisation	Fuel	Emission standard	Transmission type	Out-put[kW]	Displace-ment[cm³]	Engine code
1.33P	Petrol	Euro 6b	7-speed DKG	103	1332	H5H

Validity	Equipment variants	Model
		Megane
Verified equipment variants	2 zone automatic air-conditioning	x
	Halogen main headlights	x
	Halogen front fog lights	x
	LED daytime running lights	x
	Start button with keycard	x
	Manual air-conditioning	x
Unverified equipment variants	LED main headlights	x

Total installation time	Note
7.7 hours	

Contents

1 List of abbreviations

AAC	Automatic air-conditioning
AC	Manual air-conditioning
DKG	Dual clutch transmission
DP	Fuel pump
EFIX	Exhaust end fastener
FF	FuelFix (tank extracting device)
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 Megane petrol	1326905A
to be ordered additionally in case of AC : Additional 'Webasto Standard' air-conditioning control kit for Renault Megane	1326586_
to be ordered additionally in case of AAC : Additional 'Webasto Standard' air-conditioning control kit for Renault Megane or Additional 'Webasto Comfort' air-conditioning control kit for Renault Megane	1324475_ 1324908_
In case of control element as well as Telestart indicator lamp in consultation with end customer	In accordance with price list
In case of MultiControl CAR installation: installation frame for MultiControl	9030077_

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.

We recommend installing a Thermo Top Evo 4. The heater is integrated into the coolant circuit as an 'island' and heats up the vehicle passenger compartment. There is no engine pre-heating.

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	
Webasto Comfort A/C control	
Webasto Standard A/C control	
Tank extracting device (e.g. FuelFix)	
Exhaust end fastener (EFIX)	
Combustion air intake silencer	
Spacer bracket (ASH)	

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

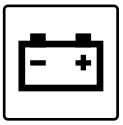
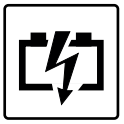
▶ Actions to protect yourself against risks.

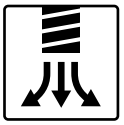
Reference to the vehicle manufacturer's specific documents.

a note on a special technical feature

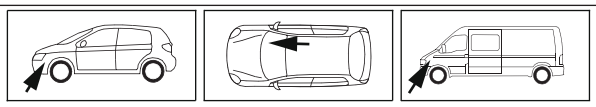
3.4.3 Work step identification marks

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 gas	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
▶	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

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

Specified temperature for fabric heat shrink tubing

- Shrink temperature max. 230°C

Necessary special tools

- Hose clamp pliers for self-clamping 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 tab 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 Preparing measures

5.1 Vehicle preparation

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

- ▶ Open the fuel tank cap
- ▶ Ventilate the fuel tank
- ▶ Close the fuel tank cap again
- ▶ Depressurise the cooling system
- ▶ Disconnect the battery and remove it completely with the battery carrier
- ▶ Completely remove the air filter with the intake hose
- ▶ Detach the engine compartment fuse and relay box
- ▶ Remove the left front wheel
- ▶ Remove the front wheel well trim on the left
- ▶ Remove the lower engine cover
- ▶ Remove the underbody trim on the right
- ▶ Remove the side instrument panel trim
- ▶ Remove the lower instrument panel trim on the driver's side
- ▶ Remove the front footwell trim, centre console on the front passenger's side
- ▶ Fold back the carpet on the driver's side
- ▶ Fold up the rear bench seat
- ▶ Open the tank fitting service lid on the left

5.2 Heater preparation

Observe the general installation instructions of the heater.

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

6 Installation overview

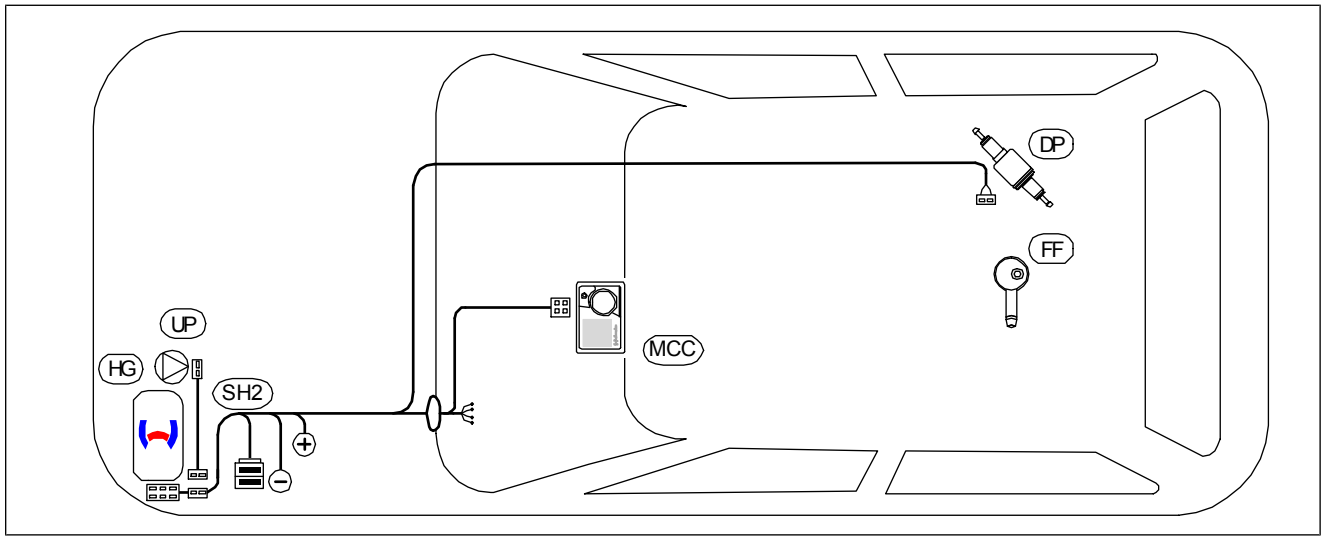


Fig. 1

Legend to installation overview

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

Heater installation location

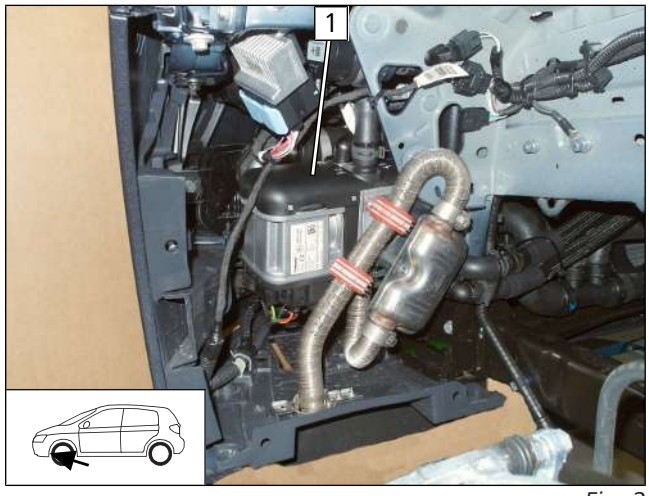


Fig. 2

1 Heater

7 Electrical system of engine compartment

Preparing fuse holder of engine compartment

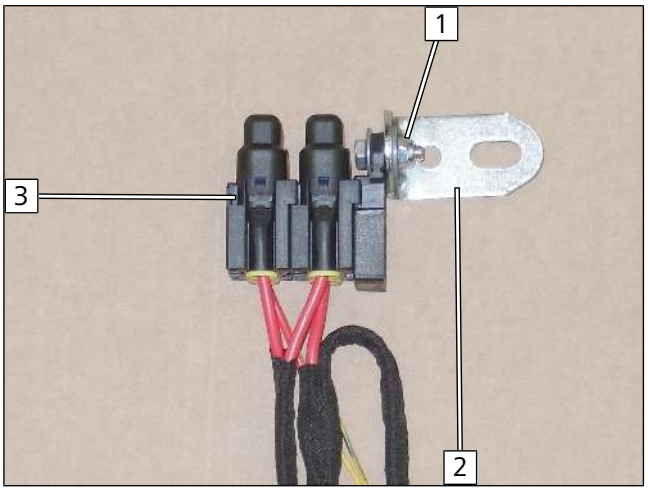


Fig. 3

1 M5x16 bolt, large diameter washer, SH2 retaining plate, large diameter washer, nut

2 Angle bracket

3 Fuse holder of engine compartment

Earth wire connection

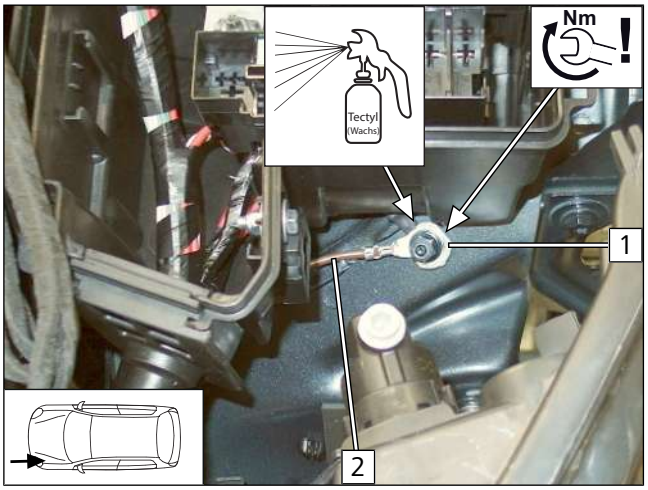


Fig. 4

DANGER

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Original vehicle earth point

2 Earth wire

Drilling hole

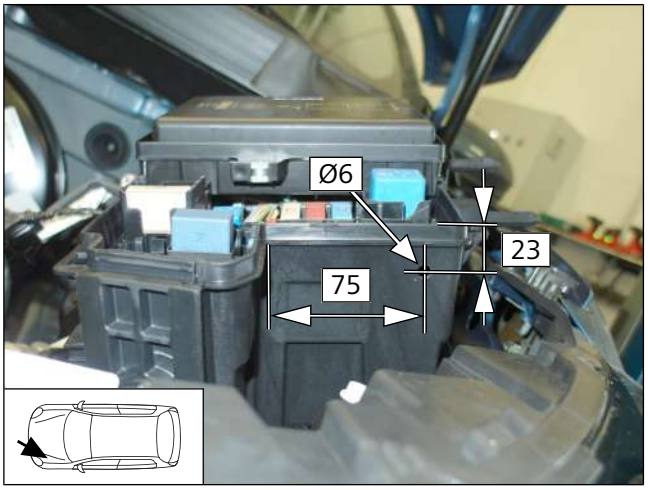


Fig. 5

Danger of damage to the electrical components

▶ When drilling, be careful of components located behind.

Mounting SH2

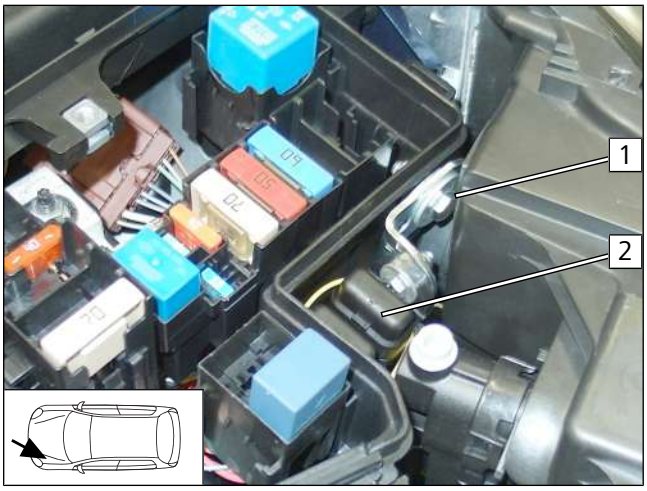


Fig. 6

1 M5x16 bolt, large diameter washer, premounted angle bracket, large diameter washer, nut

2 Fuses F1 / F2

Positive wire connection

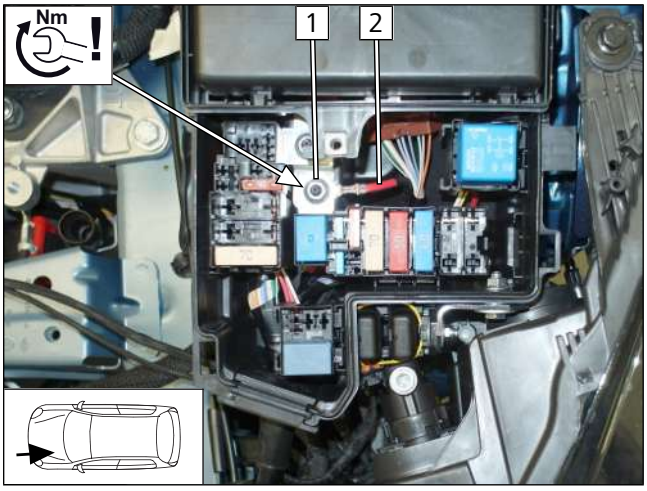


Fig. 7

DANGER

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Original vehicle positive point

2 Positive wire

Passenger compartment wiring harness pass through

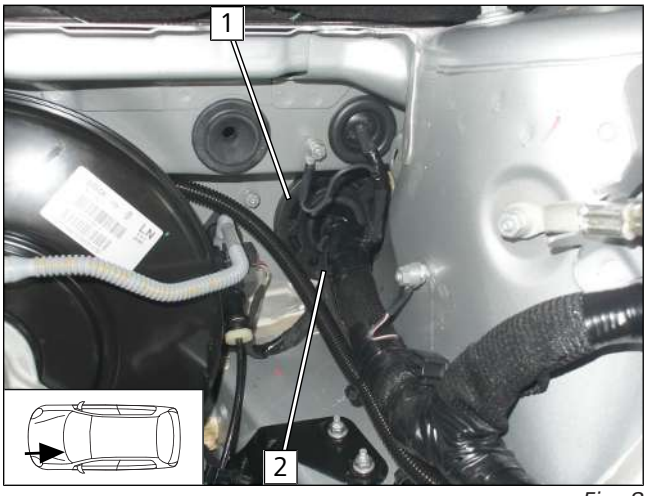


Fig. 8

1 Protective rubber plug

2 Heater and control element wiring harness

8 Mechanical system

8.1 Preparing bracket

Drilling hole

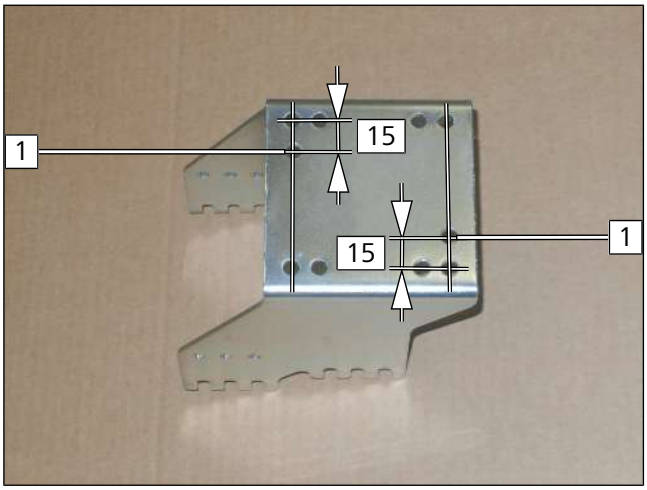


Fig. 9

1 Copy hole pattern, 7mm dia. hole

8.2 Preparing installation location

Removing original vehicle control unit

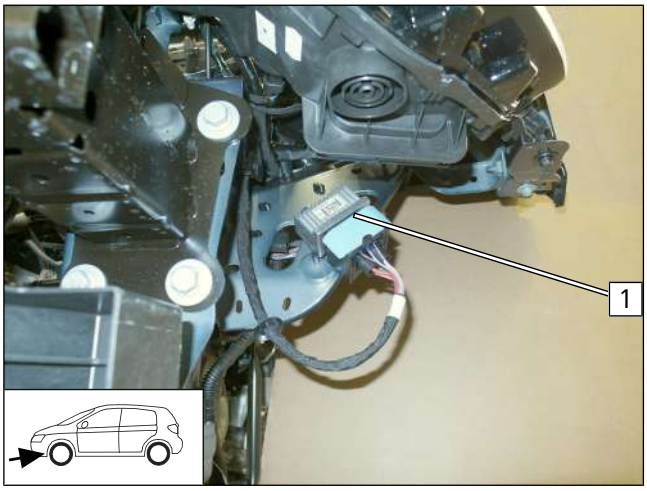


Fig. 10

▶ Bumper dismantled for documentation purposes only.

1 Original vehicle control unit, if present

Schortening bolt

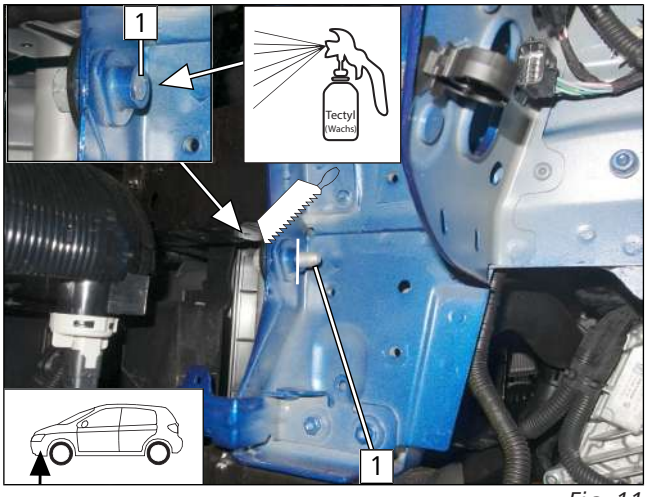


Fig. 11

▶ Shorten original vehicle bolt 1 as shown.

Copying hole pattern

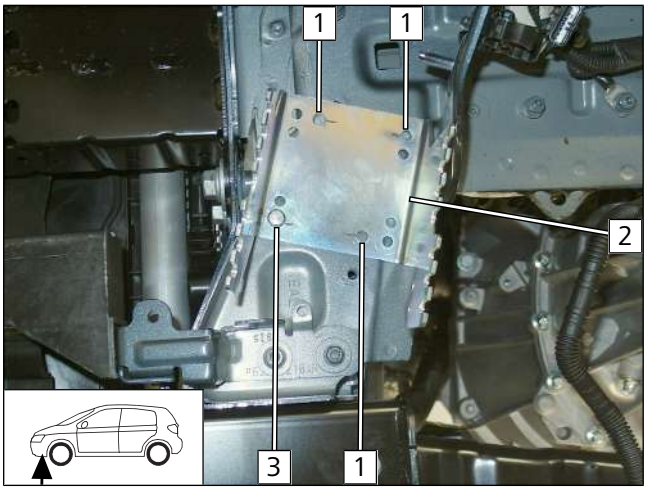


Fig. 12

▶ Mount bracket [2] loosely and align as shown.

[1] Hole pattern

[3] M6x30 bolt, original vehicle threaded hole

Inserting rivet nut

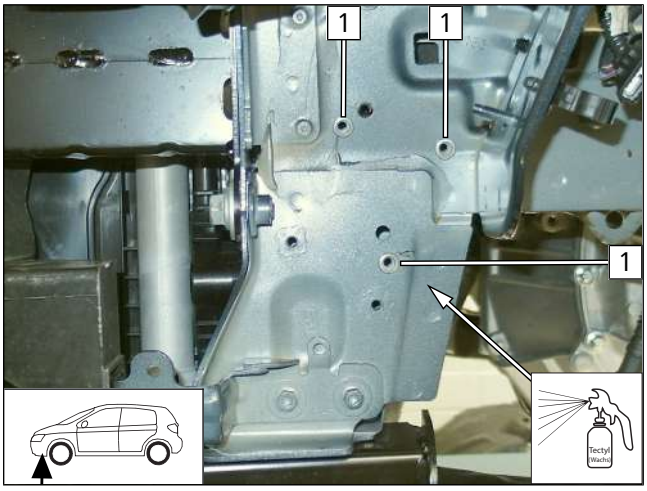


Fig. 13

▶ Remove bracket again.

[1] 9.1mm hole; rivet nut

Premounting bracket

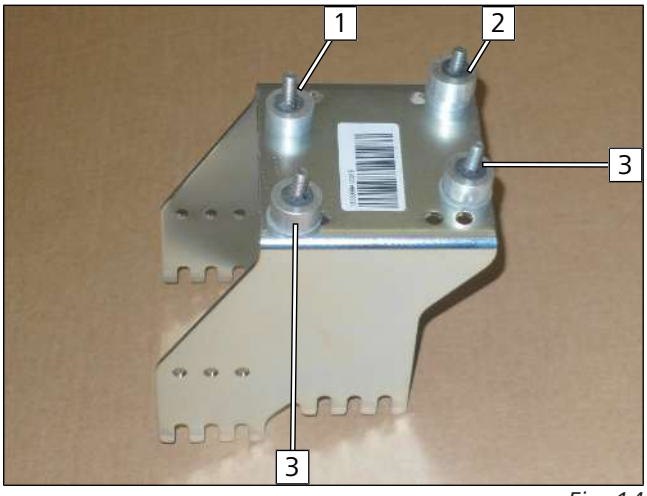


Fig. 14

[1] M6x30 bolt, spring lockwasher, 10mm shim, lock washer

[2] M6x30 bolt, spring lockwasher, 5mm shim, 10mm shim, lock washer

[3] M6x30 bolt, spring lockwasher, large diameter washer, 10mm shim, lock washer

Cutting self-adhesive foam in half

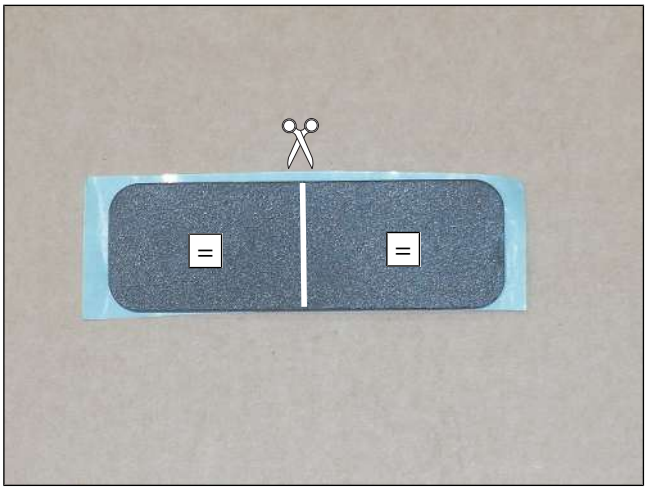


Fig. 15

Mounting bracket

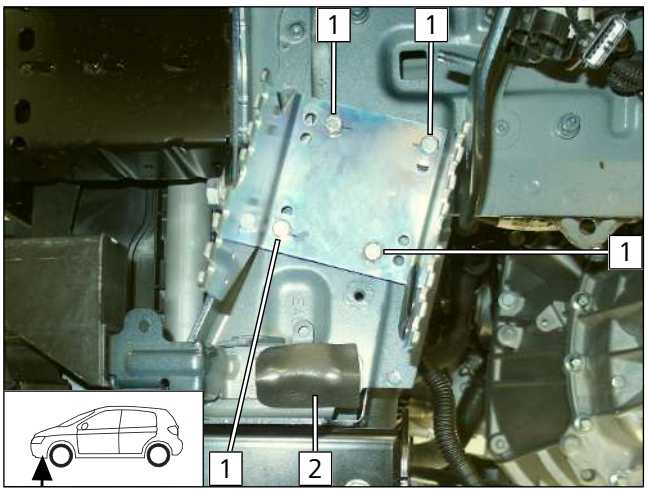


Fig. 16

▶ Tighten bolts **1**.

2 Self-adhesive foam

Mounting edge protection

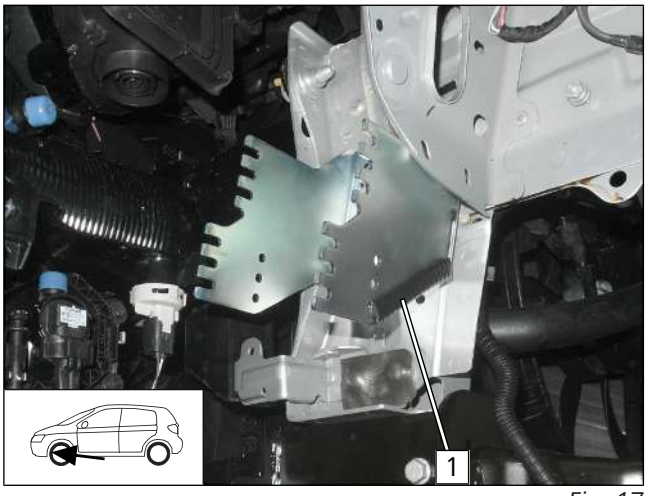


Fig. 17

1 80mm long edge protection

Gluing foam

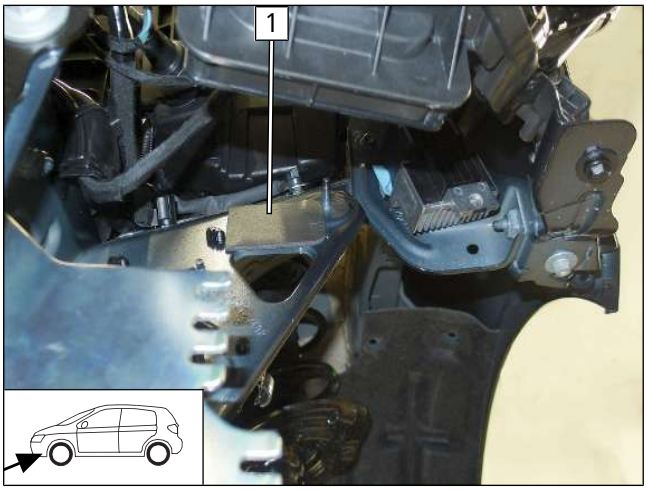


Fig. 18

[1] Self-adhesive foam

8.3 Premounting heater

Mounting water connection piece

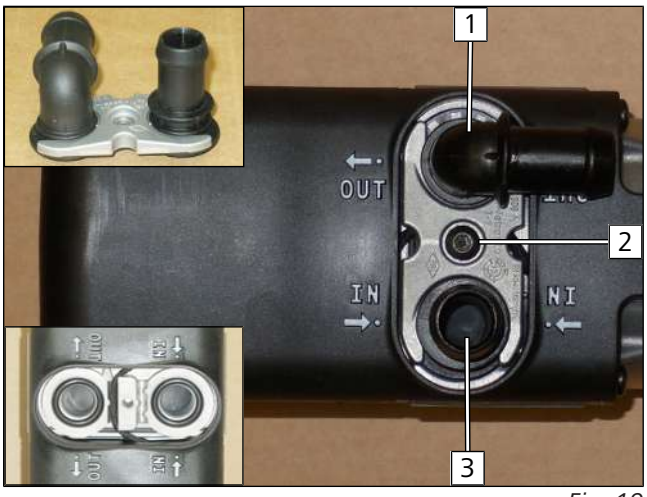


Fig. 19

Observe the general installation instructions of the heater.

[1] 90° water connection piece, seal

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

[3] 180° water connection piece, seal

Premounting bolts loosely

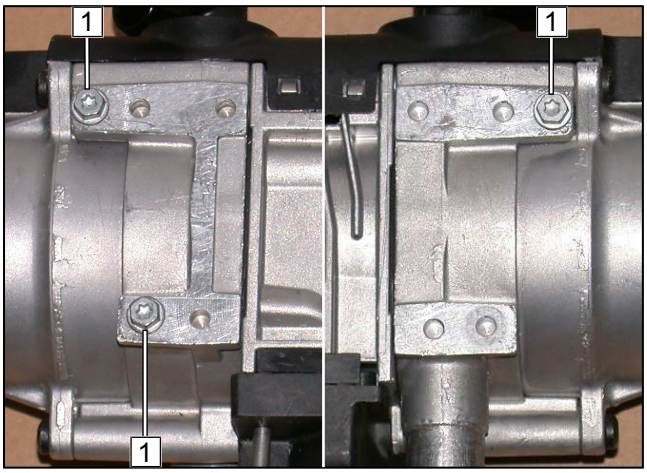


Fig. 20

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

Cutting hoses to length

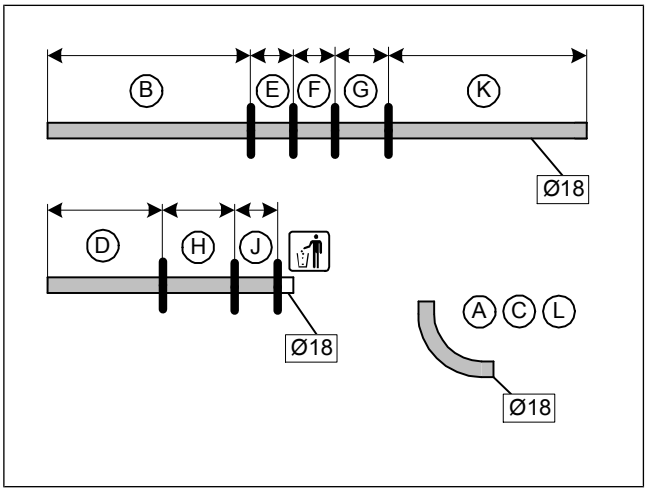


Fig. 21

Ⓐ	90°
Ⓑ	900
Ⓒ	90°
Ⓓ	190
Ⓔ	80
Ⓕ	80
Ⓖ	90
Ⓗ	125
Ⓙ	80
Ⓚ	850
Ⓛ	90°

Preparing hoses

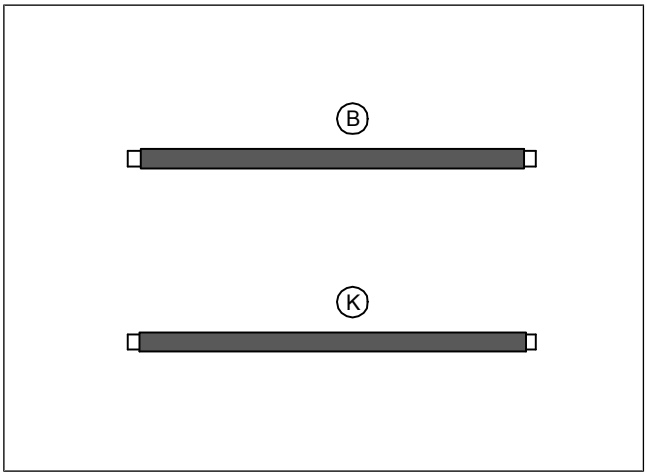


Fig. 22

▶ Push fabric heat shrink tubings onto hoses Ⓑ and Ⓚ and cut to length.

Premouting hoses

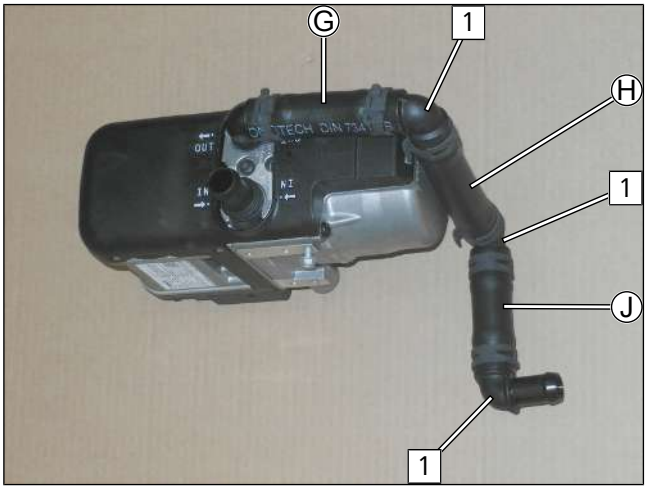


Fig. 23

All spring clips, 25mm dia.

1 18x18, 90° connecting pipe

Premounting hoses and coolant pump

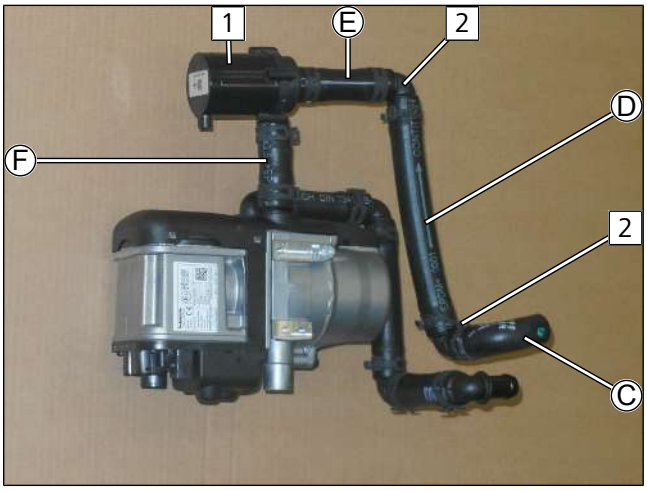


Fig. 24

All spring clips, 25mm dia.

1 Coolant pump
2 18x18, 90° connecting pipe

Premounting non-return valve

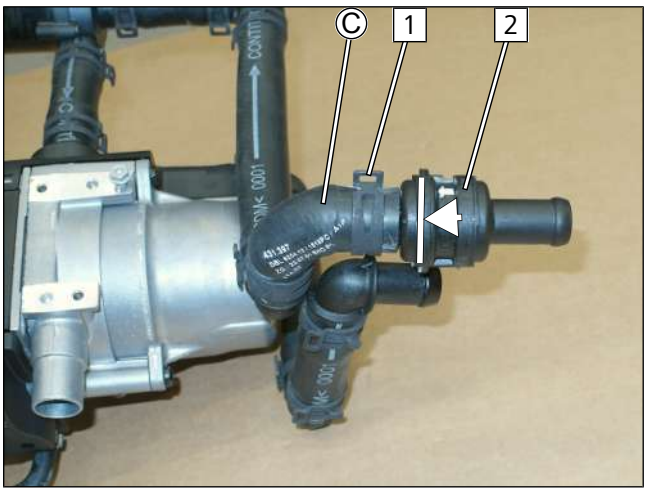


Fig. 25

1 Spring clip
2 Non-return valve

Preparing combustion air pipe and combustion air intake silencer

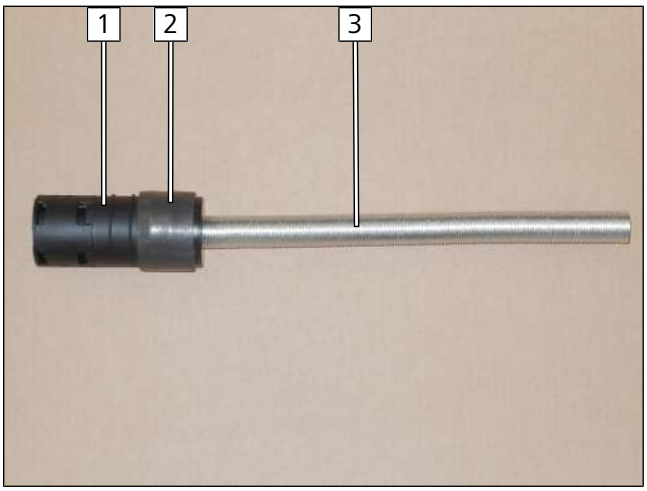


Fig. 26

1 Combustion air intake silencer
2 Self-adhesive foam
3 Combustion air pipe

Mounting combustion air intake silencer, combustion air pipe and fuel line

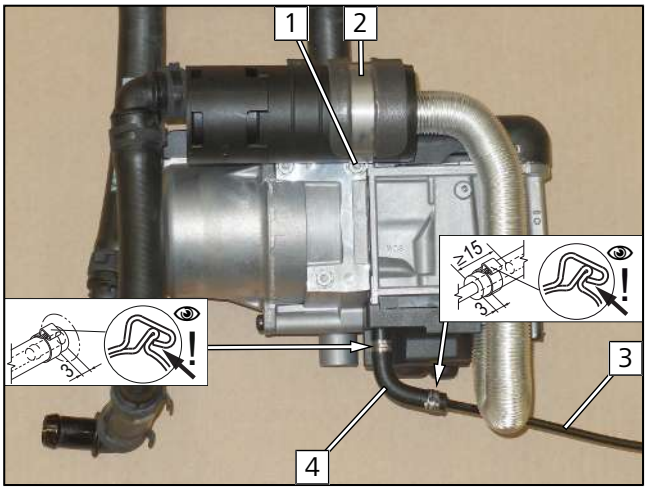


Fig. 27

1 5x13 self-tapping bolt
2 51mm dia. clamp
3 5000mm long fuel line
4 90° moulded hose, 10mm dia. clamp [2x]

Mounting coolant pump wiring harness

Fig. 28

1 Coolant pump wiring harness connector

8.4 Heater mounting

Mounting heater

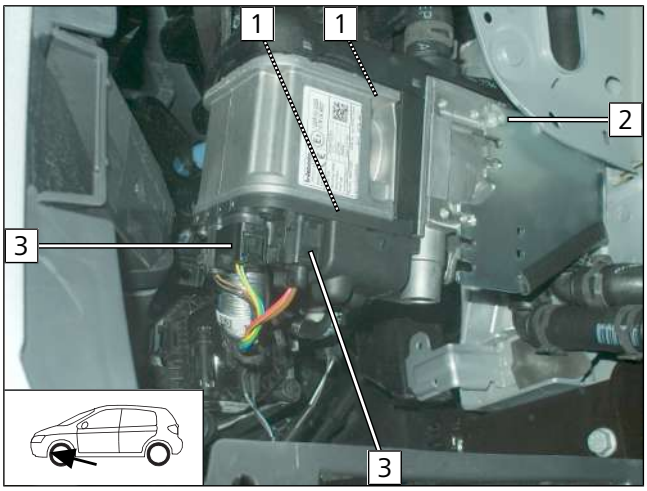


Fig. 29

▶ Route fuel line in the engine compartment.

1 Tighten 5x13 self-tapping bolts (covered)
2 Tighten 5x13 self-tapping bolt
3 Heater wiring harness connector

Mounting coolant pump

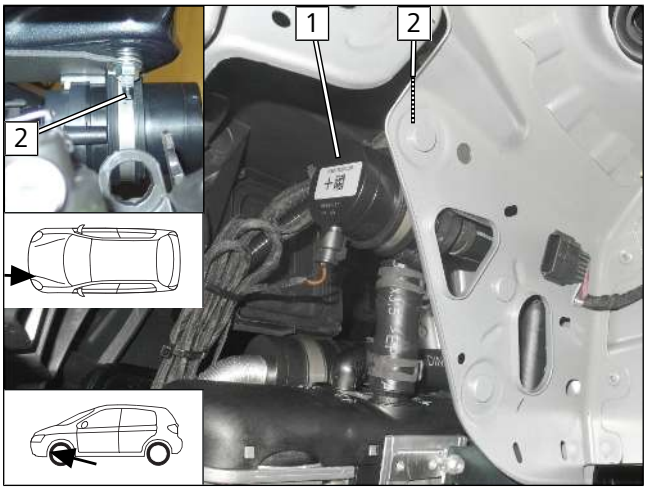


Fig. 30

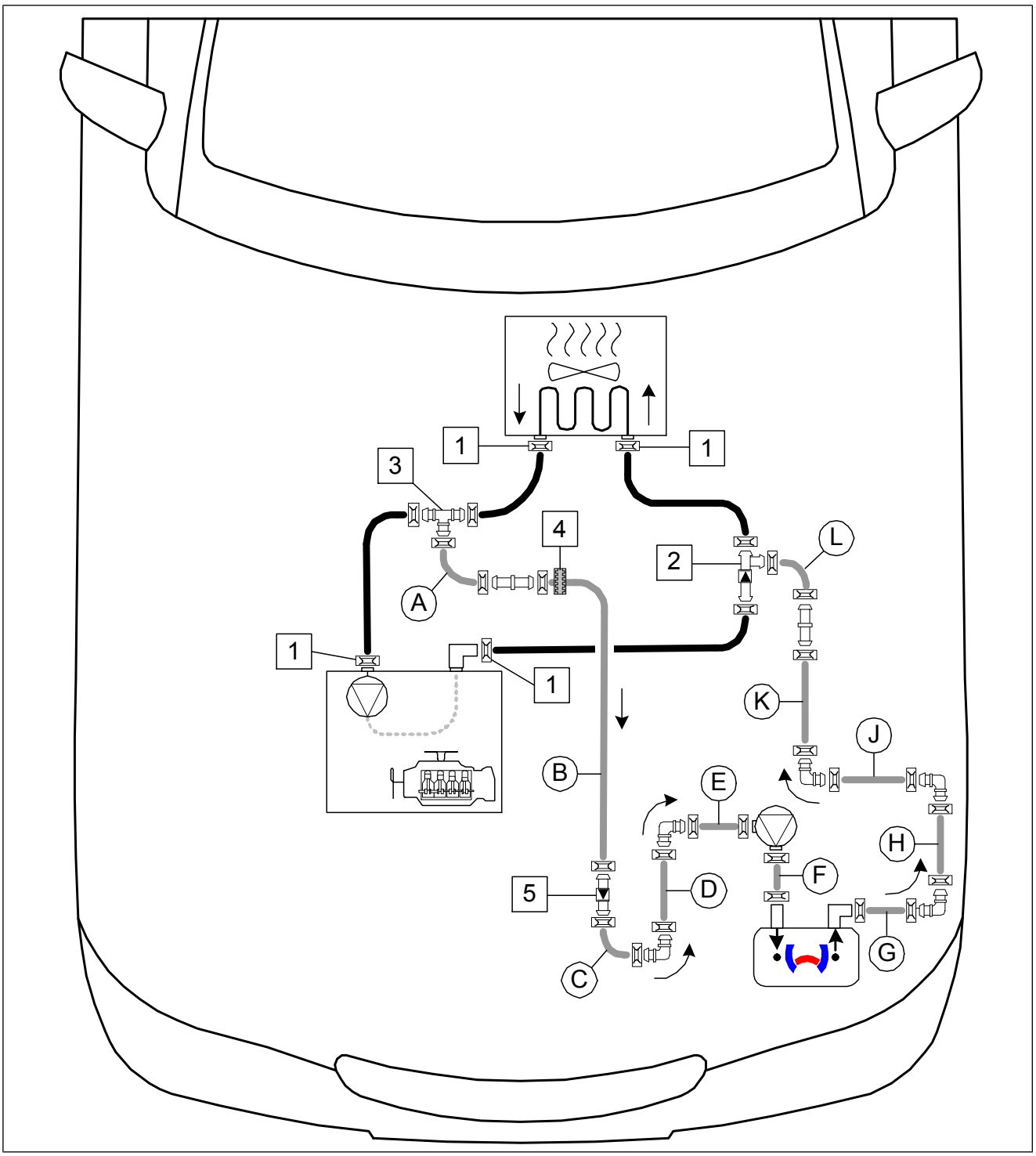
1 Coolant pump

2 Original vehicle stud bolt, 48mm dia. rubber-coated p-clamp, M6 flanged nut

9 Coolant

9.1 Hose routing diagram

'Island' coolant circuit



▶ All spring clips without a specific designation = 25mm dia.

▶ All connecting pipe or = 18x18mm dia.

1 Original vehicle spring clip; 2 Non-return valve ; 3 T-piece

4 Black rubber isolator ; 5 Non-return valve

9.2 Coolant circuit installation

Dismantling hoses

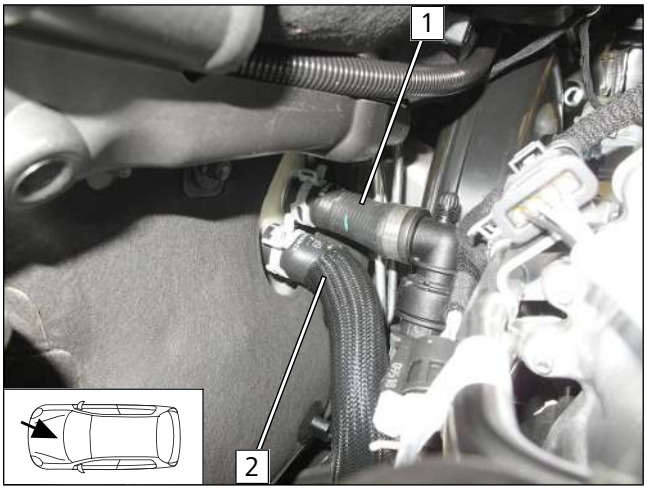


Fig. 31

- ▶ Remove hose of heat exchanger outlet / engine inlet [1] and hose of heat exchanger inlet / engine outlet [2].
- ▶ Original vehicle clamps will be reused.

Cutting point 1

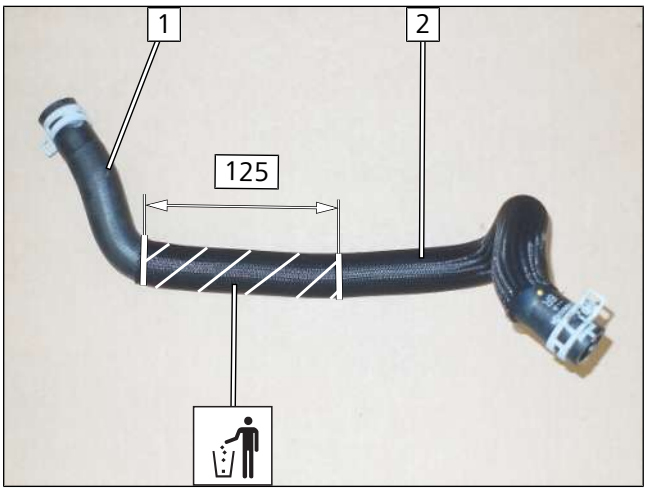


Fig. 32

- ▶ Remove original vehicle braided protection in marked area.

[1] Heat exchanger inlet / engine outlet hose
[2] Original vehicle braided protection

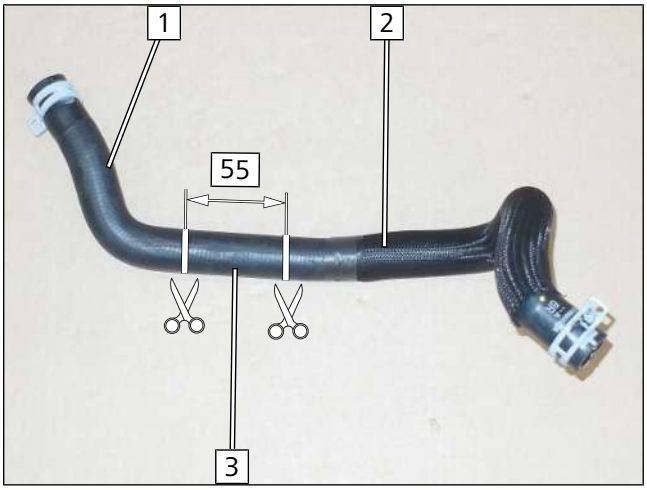


Fig. 33

[1] Engine outlet hose section
[2] Heat exchanger inlet hose section
[3] 55mm hose section, will be reused

Premounting non-return valve

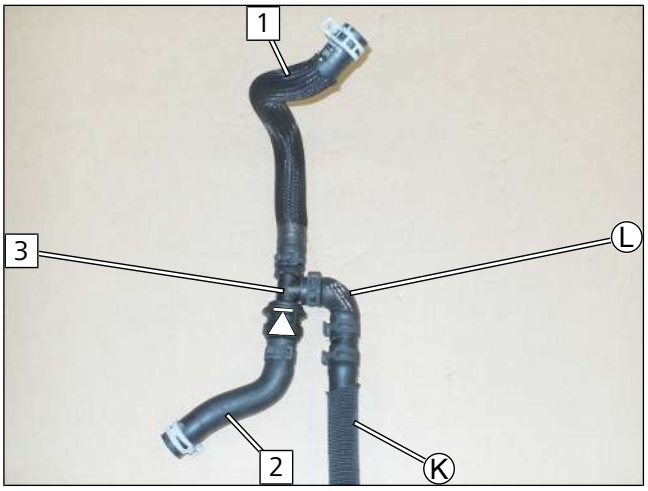


Fig. 34

1 Heat exchanger inlet hose section
2 Engine outlet hose section
3 Non-return valve

Heat exchanger inlet connection

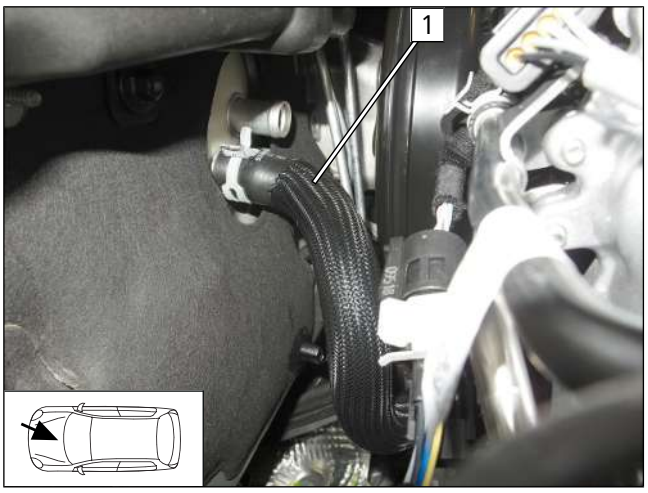


Fig. 35

1 Heat exchanger inlet hose section

Engine outlet connection

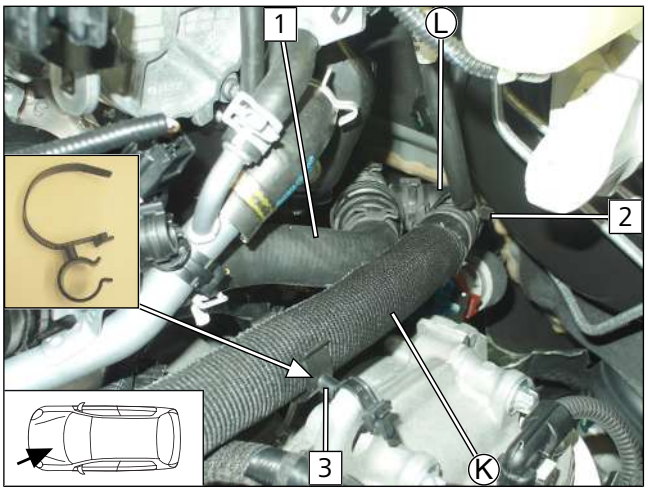


Fig. 36

1 Engine outlet hose section
2 Cable tie around hose section Kand original vehicle hose
3 Hose bracket with cable tie

Routing in engine compartment

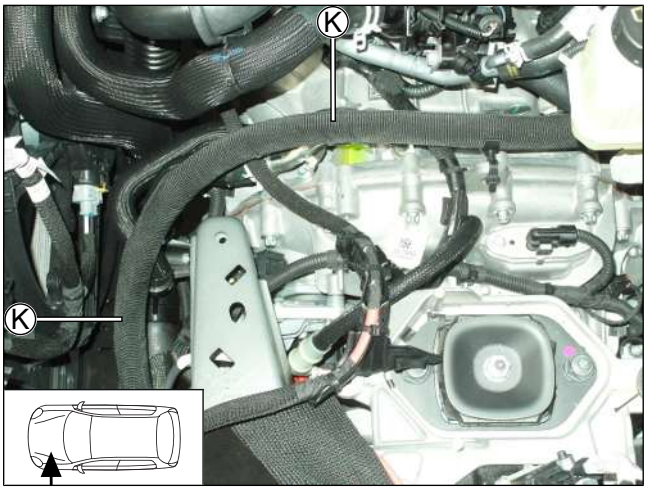


Fig. 37

Heater outlet connection

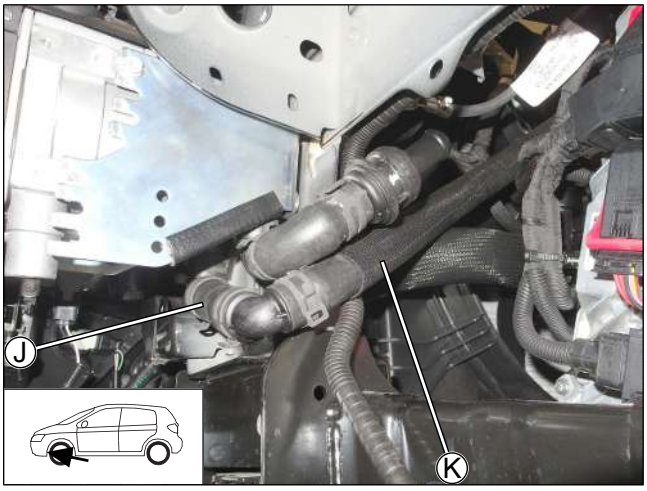


Fig. 38

Cutting point 2

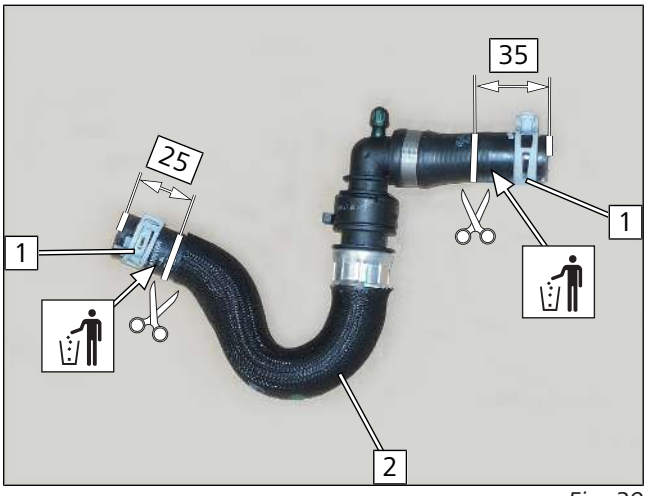


Fig. 39

1 Original vehicle spring clip, will be reused
2 Heat exchanger outlet / engine inlet hose

Premounting T-piece

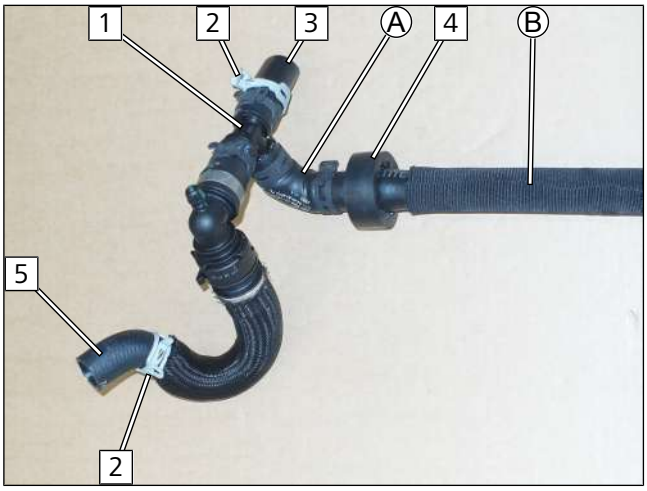


Fig. 40

1. T piece
2. Original vehicle spring clip, pre-positioned
3. Original vehicle 55mm hose section, heat exchanger outlet connection
4. Black (sw) rubber isolator
5. Original vehicle hose section, engine inlet connection

Heat exchanger outlet connection

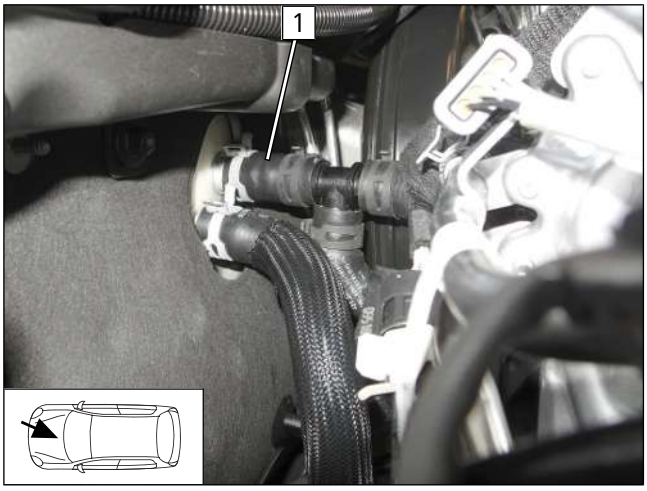


Fig. 41

1. Heat exchanger outlet hose section

Engine inlet connection

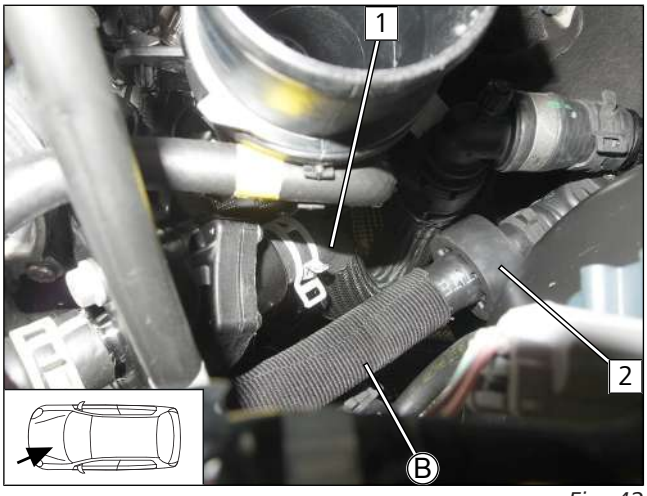


Fig. 42

1. Engine inlet hose section
2. Black (sw) rubber isolator

Routing in engine compartment

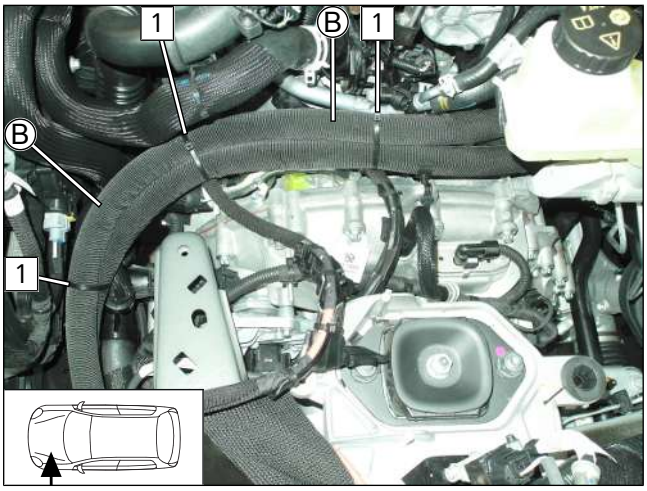


Fig. 43

1 Cable tie

Heater inlet connection

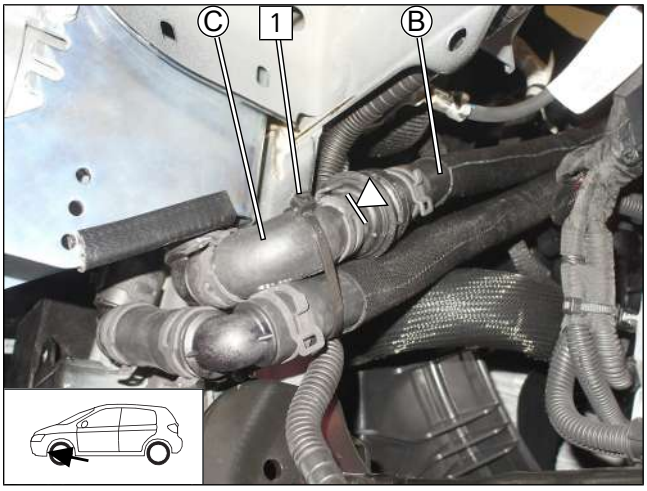


Fig. 44

Danger of damage to components

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

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

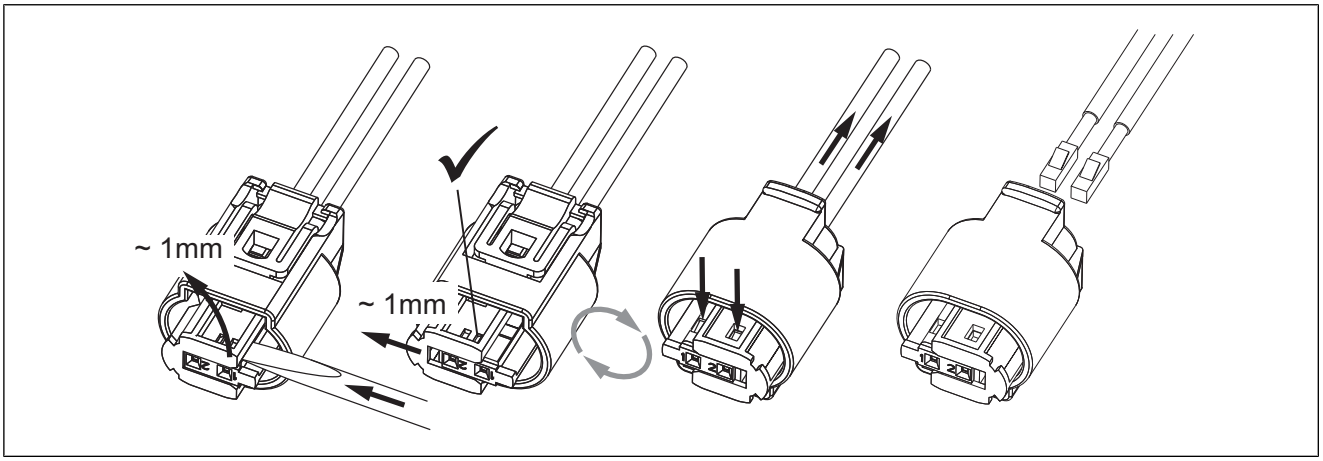


Fig. 45

10.1 Routing fuel line

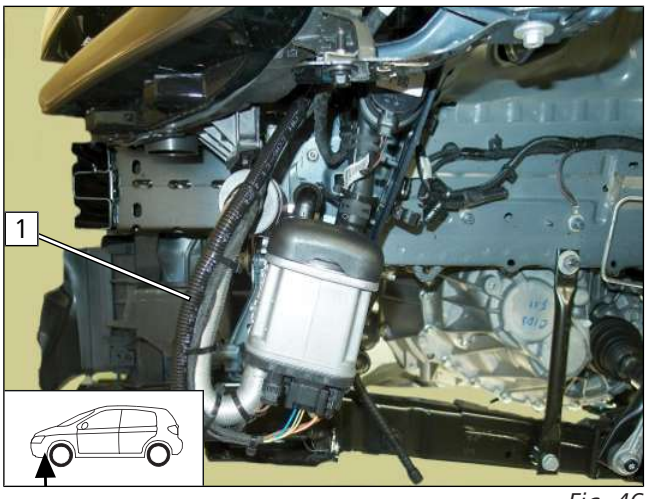


Fig. 46

- ▶ Bumper dismantled for documentation purposes.
- ▶ Draw fuel line and fuel pump wiring harness into 2100mm corrugated tube [1] and route in the engine compartment.
- ▶ Attach all the routed lines with cable ties.

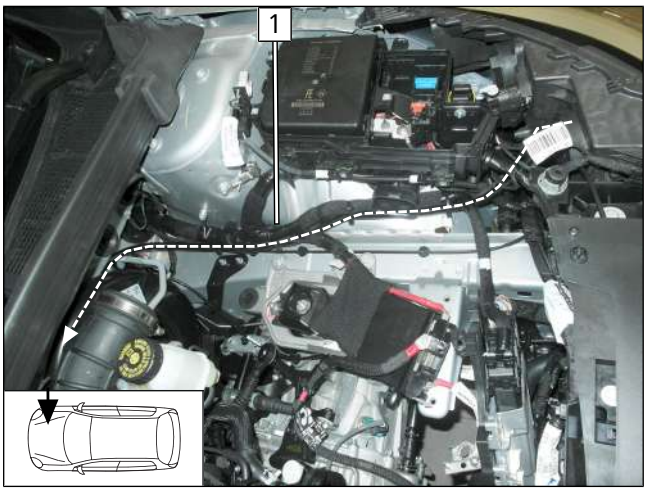


Fig. 47

[1] Fuel line and fuel pump wiring harness in corrugated tube

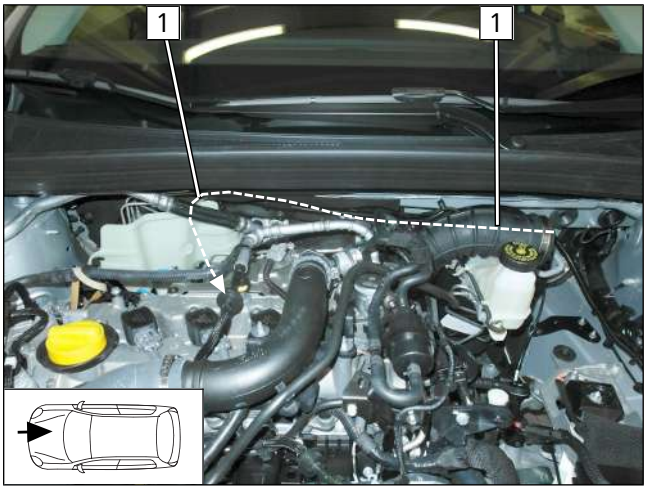


Fig. 48

▶ Route fuel line and fuel pump wiring harness in corrugated tube [1] along original vehicle lines to the underbody.

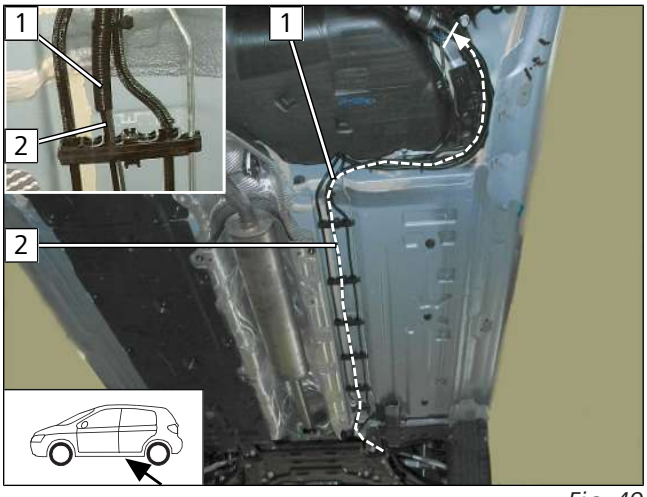


Fig. 49

[1] 1130mm corrugated tube

[2] Fuel line and fuel pump wiring harness

10.2 Installing FuelFix

Preparing fuel line

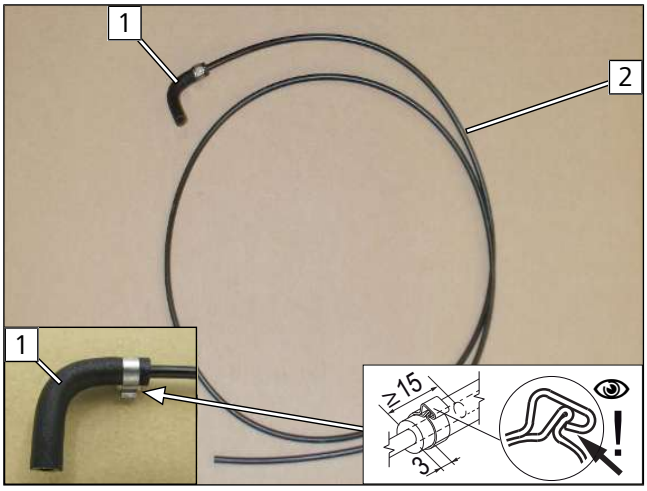


Fig. 50

1 90° moulded hose, 10mm dia. clamp
2 1500mm long fuel line

View of drilling template

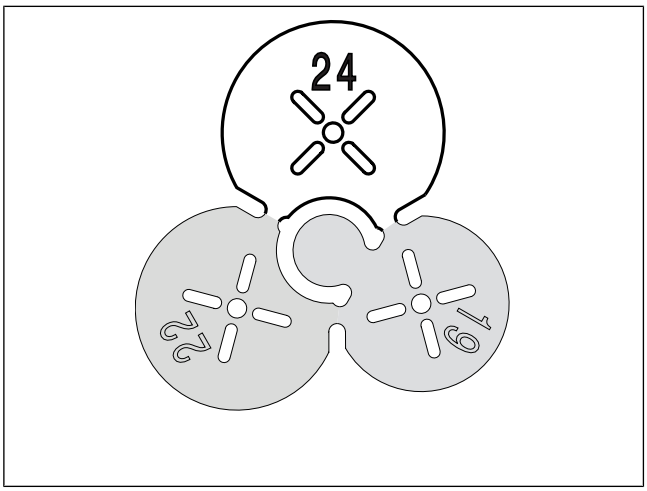


Fig. 51

Copying hole pattern

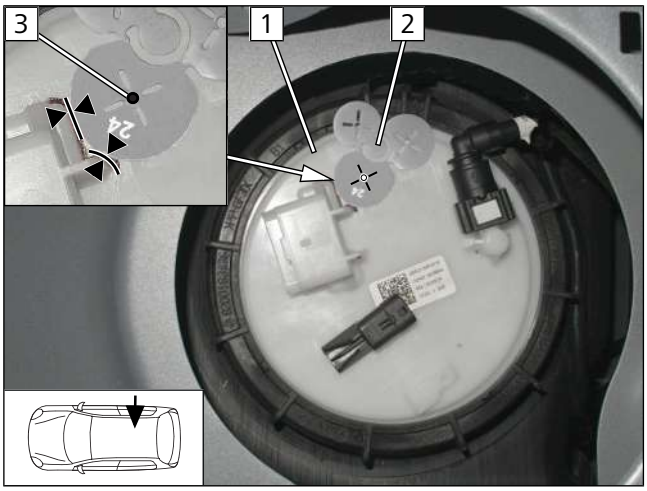


Fig. 52

Observe the installation instructions of the tank extracting device.

▶ Work steps F1, F2

1 Tank fitting
2 Position 24mm dia. drilling template at the marking
3 Copy hole pattern

Hole for FuelFix

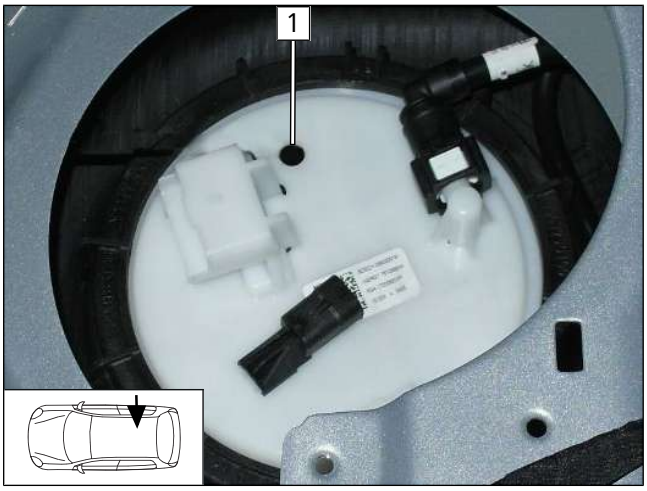


Fig. 53

DANGER

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

▶ Work step F3

1 Hole made with provided drill

Inserting FuelFix

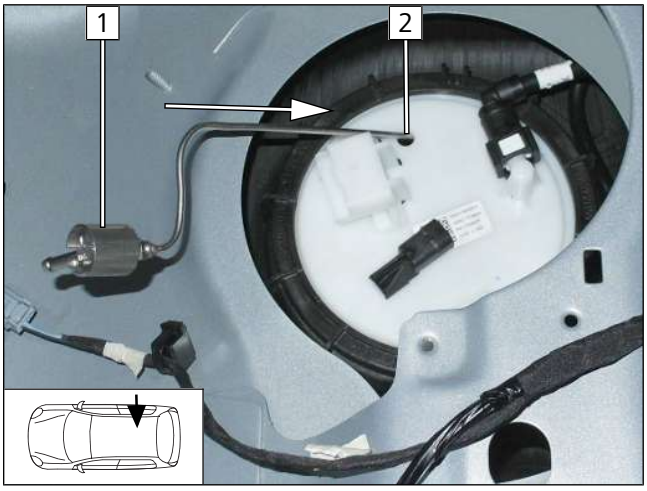


Fig. 54

▶ Work steps F4, F5

▶ Bend FuelFix 1 as shown in template and cut to length. Insert in hole 2.

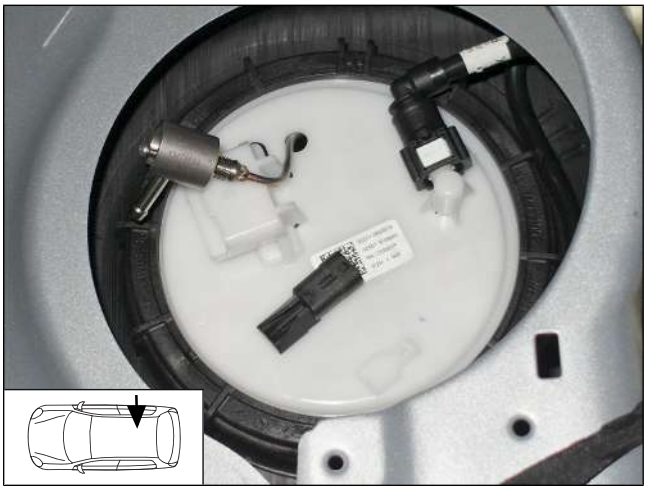


Fig. 55

▶ Work step F5

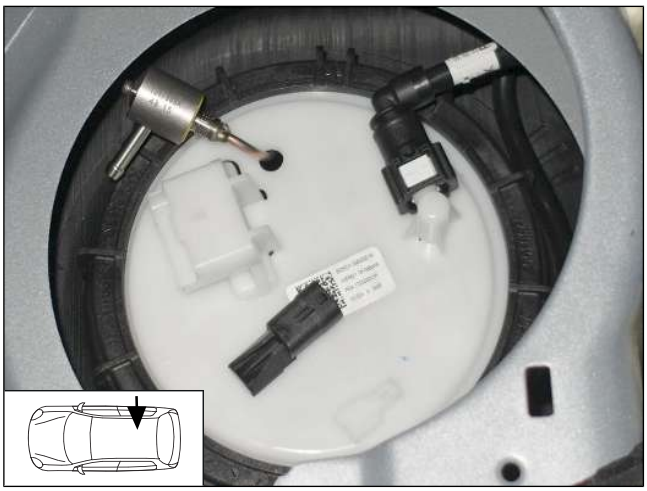


Fig. 56

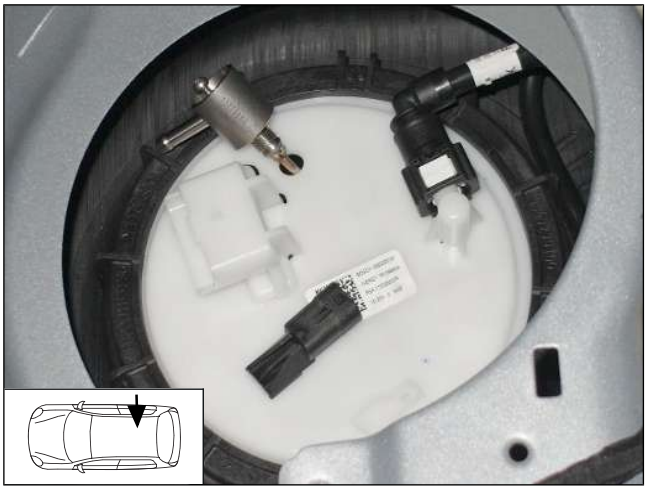


Fig. 57

Aligning FuelFix

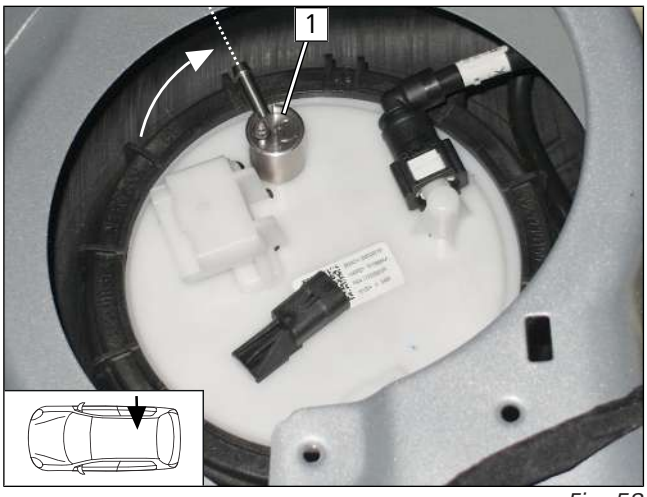


Fig. 58

- ▶ Work steps F5.3, F5.4
- ▶ Align FuelFix **1** as shown.

Connecting fuel line

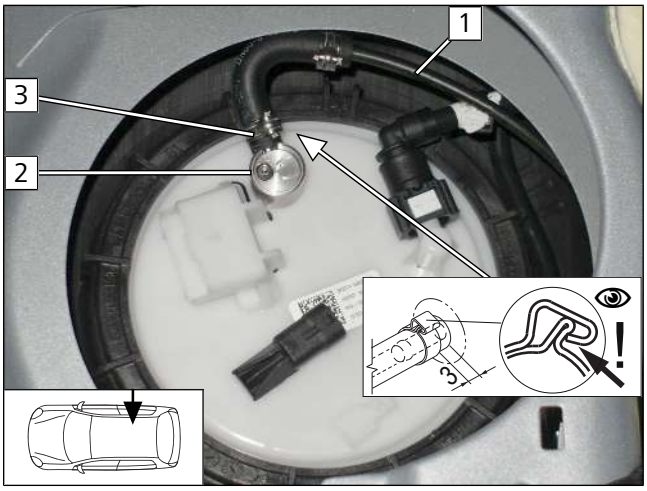


Fig. 59

▶ Work step F6

1 Prepared fuel line
2 FuelFix
3 10mm dia. clamp

Mounting FuelFix

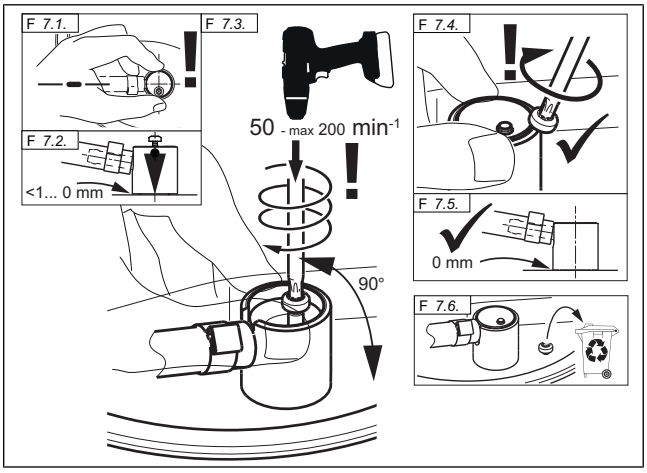


Fig. 60

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

▶ Work step F7

Checking firm seating of FuelFix

Fig. 61

▶ Work step F8

Securing fuel line

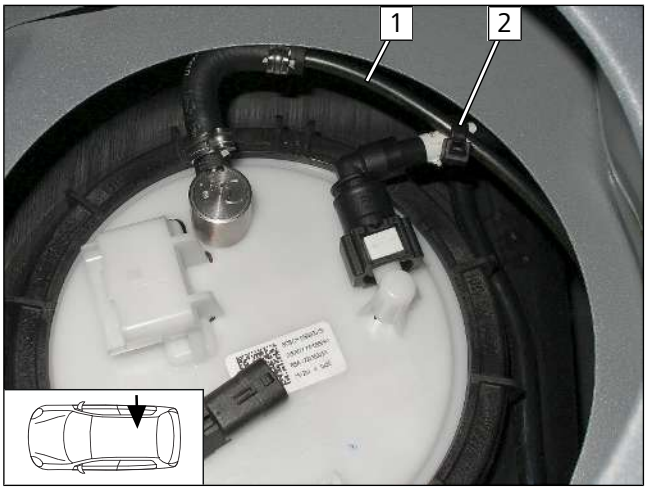


Fig. 62

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

10.3 Fuel pump connection

Preparing perforated bracket

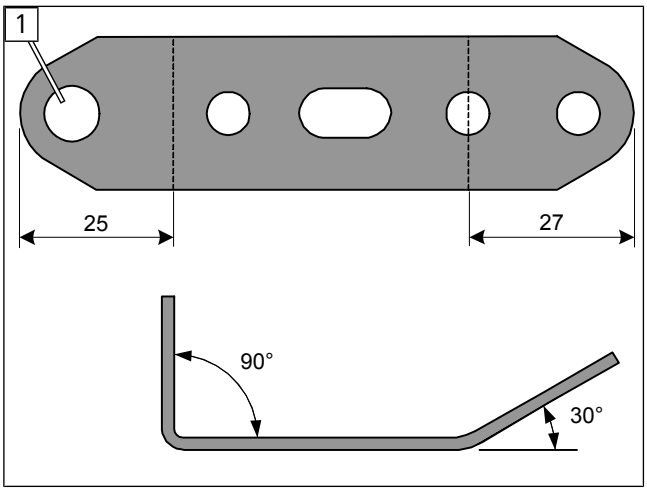


Fig. 63

[1] Drill out hole to 8.5mm dia.

Removing original vehicle bolt

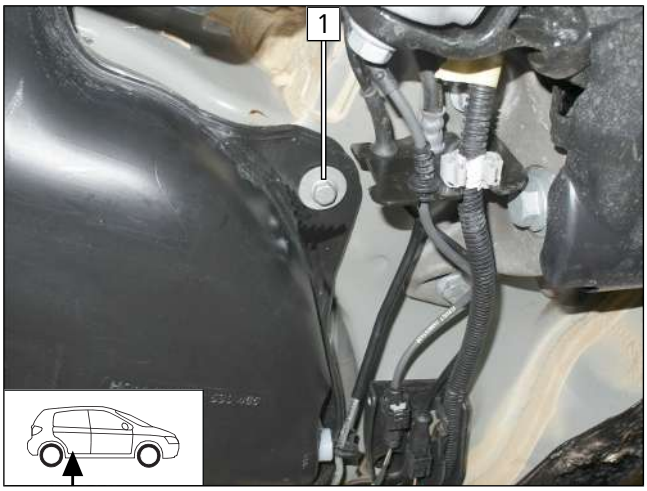


Fig. 64

[1] Original vehicle bolt

Premounting perforated bracket

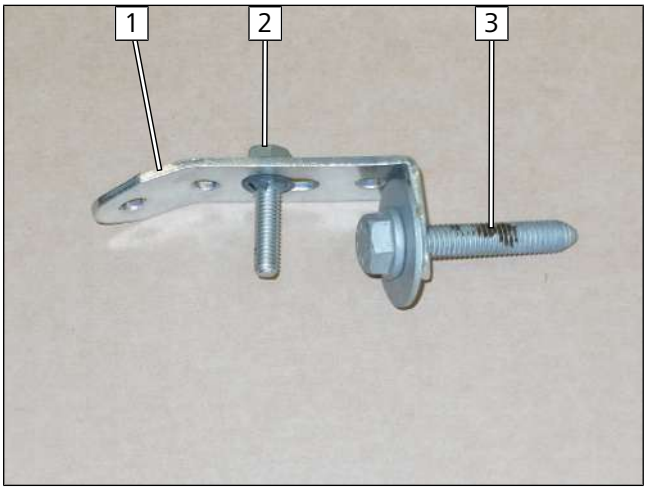


Fig. 65

1 Perforated bracket
2 M6x25 bolt, lock washer
3 Original vehicle bolt

Mounting perforated bracket

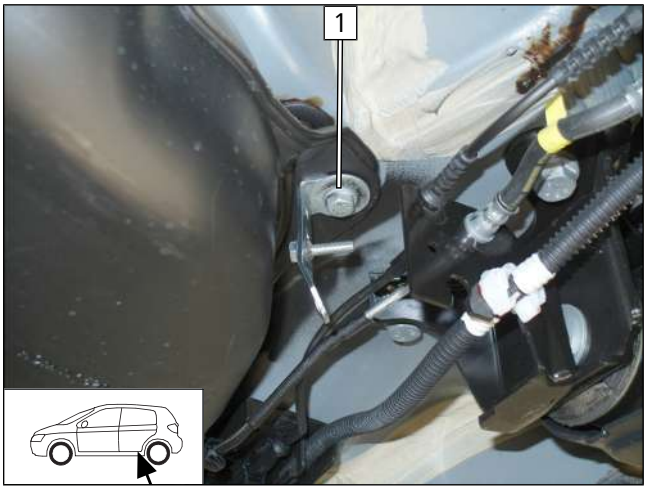


Fig. 66

1 Original vehicle bolt with washer, perforated bracket

Mounting fuel pump mount

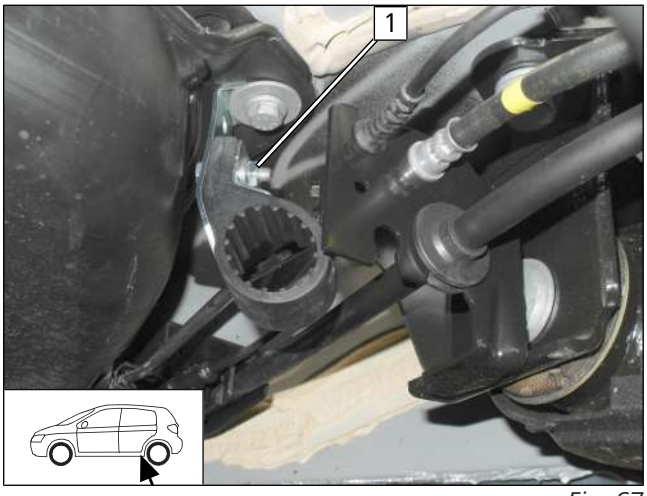


Fig. 67

1 Fuel pump mount, support angle bracket, flanged nut

Premounting fuel pump

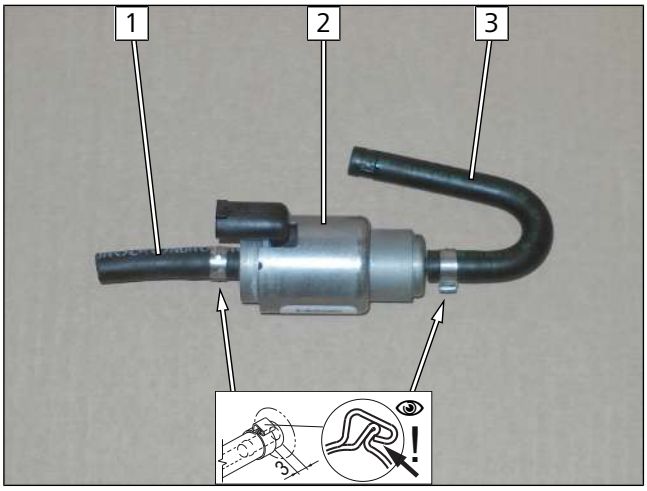


Fig. 68

1 Hose section, 10mm dia. clamp
2 Fuel pump
3 180° moulded hose, 10mm dia. clamp

Mounting fuel pump

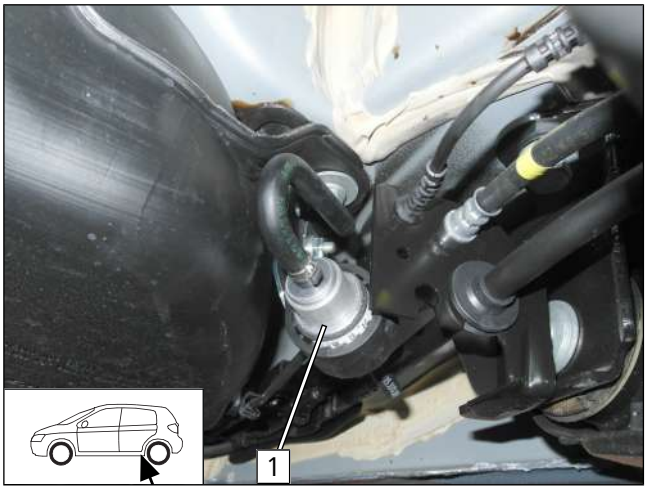


Fig. 69

1 Fuel pump

Mounting fuel pump connector X7

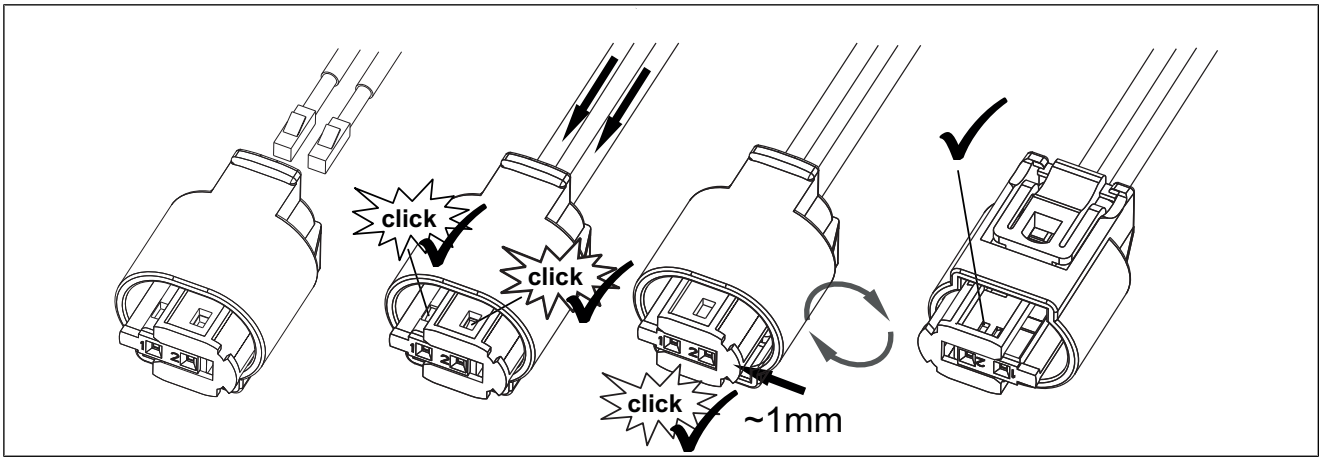


Fig. 70

Connecting fuel pump

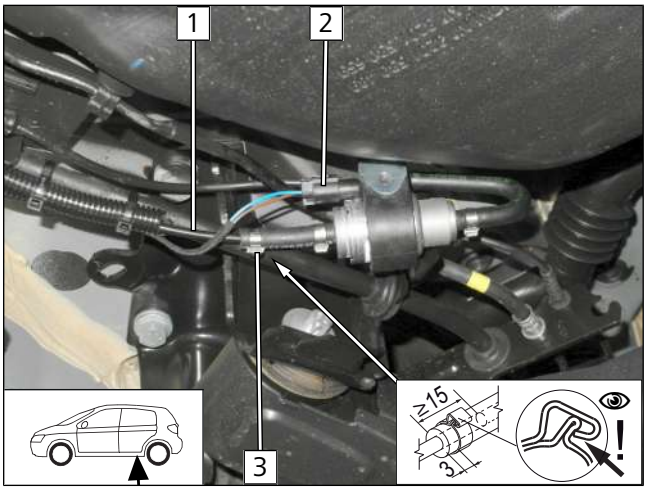


Fig. 71

1 Heater fuel line
2 Fuel pump wiring harness connector X7
3 10mm dia. clamp

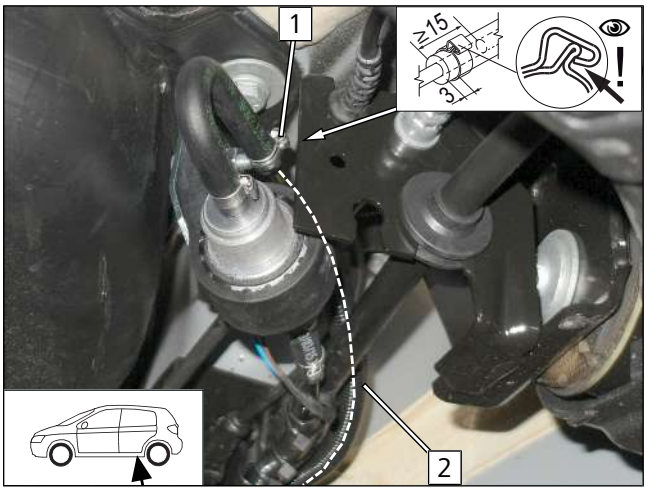


Fig. 72

! Danger of damage to components

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

1 10mm dia. clamp
2 Fuel line FuelFix in 1130mm corrugated tube

11 Exhaust

11.1 Mounting exhaust end fastener

View of original vehicle hole

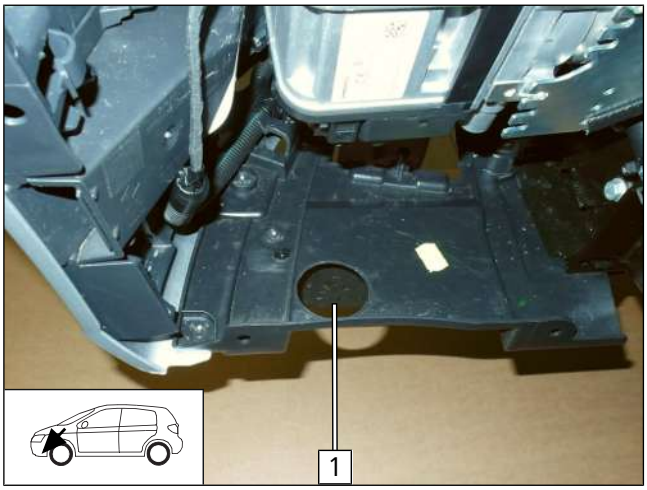


Fig. 73

Observe the EFIX installation instructions.

1 Original vehicle hole

Copying hole pattern

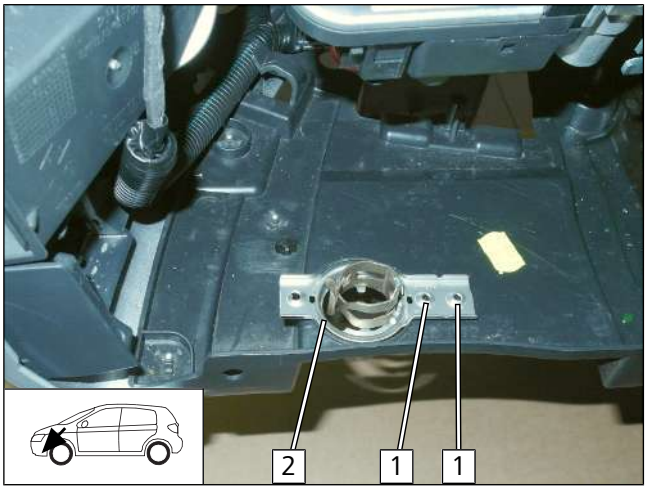


Fig. 74

▶ Work step E3

1 Hole pattern
2 EFIX

Holes in underride protection

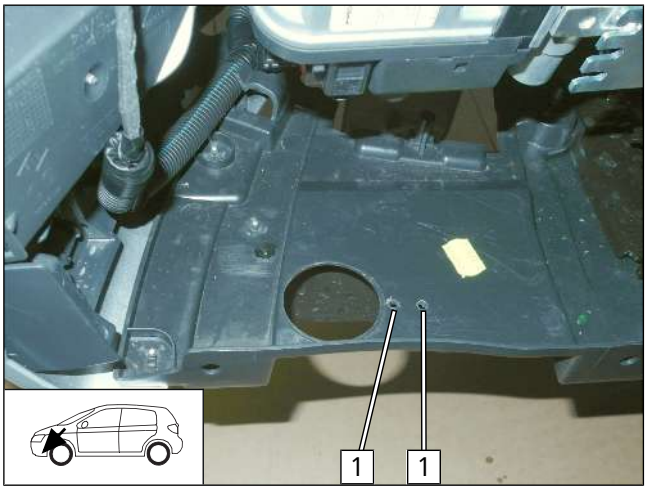


Fig. 75

▶ Work step E4

1 Hole

Placing large diameter washers as height compensation

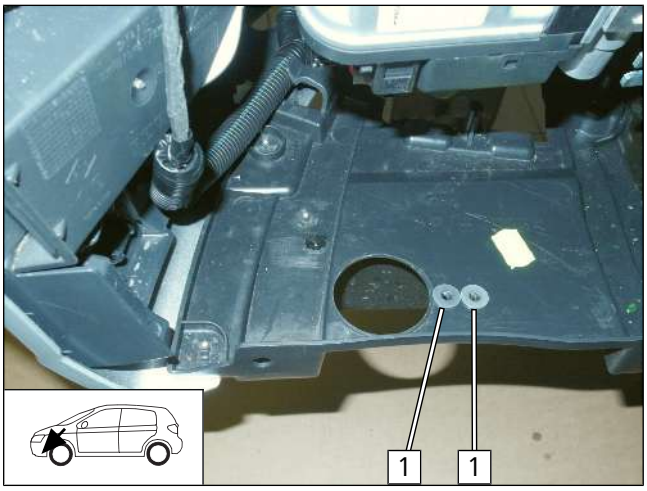


Fig. 76

1 5.3mm large diameter washer

Mounting EFIX

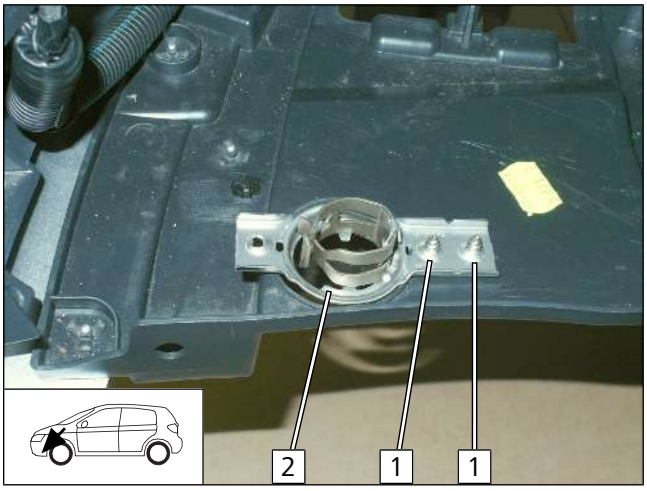


Fig. 77

▶ Work step E5

1 5x13 self-tapping screw

2 EFIX

11.2 Mounting exhaust pipe

Cutting exhaust pipe to length

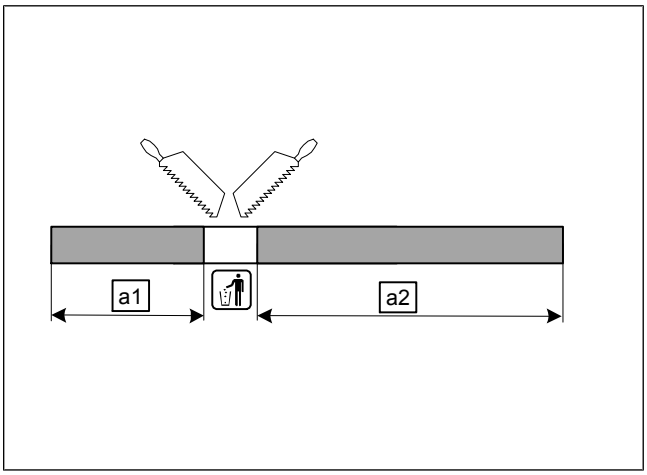


Fig. 78

a1 170

a2 390

Mounting stud bolt

Fig. 79

1 M5/6 x15 self-tapping stud bolt

Mounting exhaust silencer

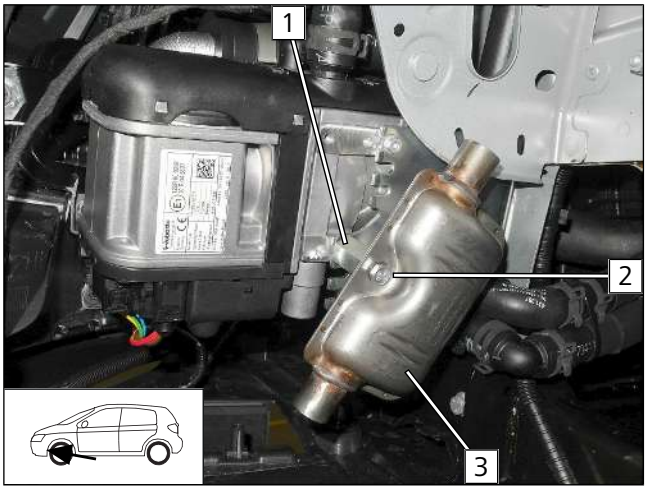


Fig. 80

1 M6x30 spacer nut
2 M6x16 bolt, spring lockwasher
3 Exhaust silencer

Mounting exhaust pipe a1

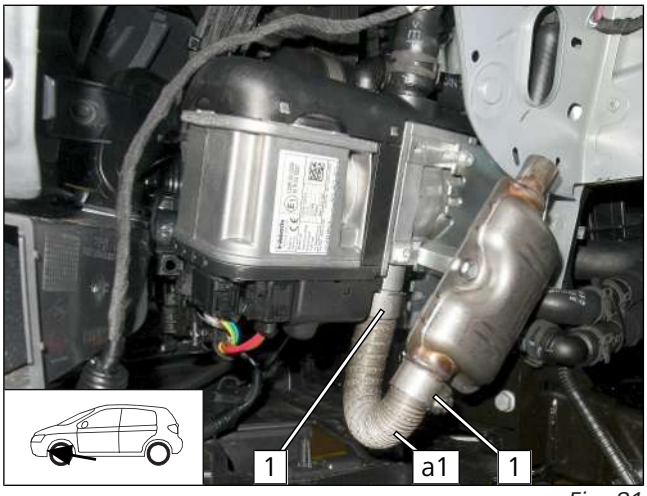


Fig. 81

1 Hose clamp

Mounting exhaust pipe a2

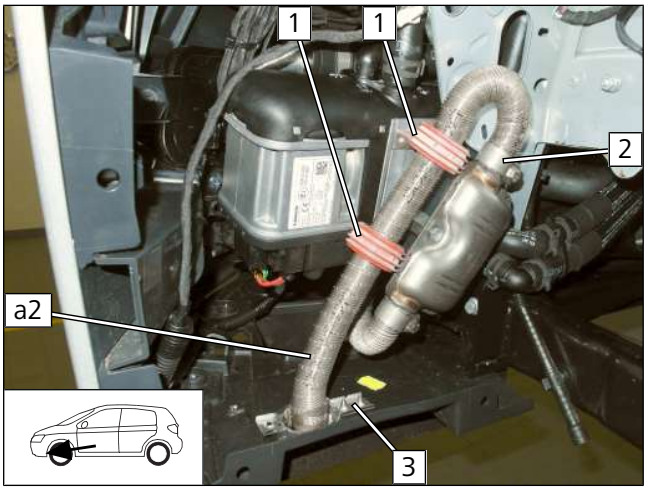


Fig. 82

Danger of damage to components

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

Observe the EFIX installation instructions.

▶ Work steps E6-E8

1 Spacer bracket
2 Hose clamp
3 EFIX

12 Final work in engine compartment

Preparing original vehicle control unit

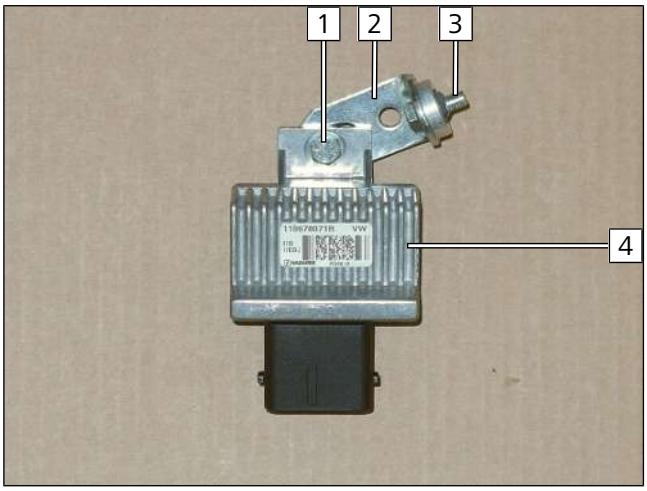


Fig. 83

▶ Mount M6x20 bolt loosely using flanged nut [1].

[2] Angle bracket
[3] M6x16 bolt, 5mm shim, lock washer
[4] Original vehicle control unit

Mounting original vehicle control unit

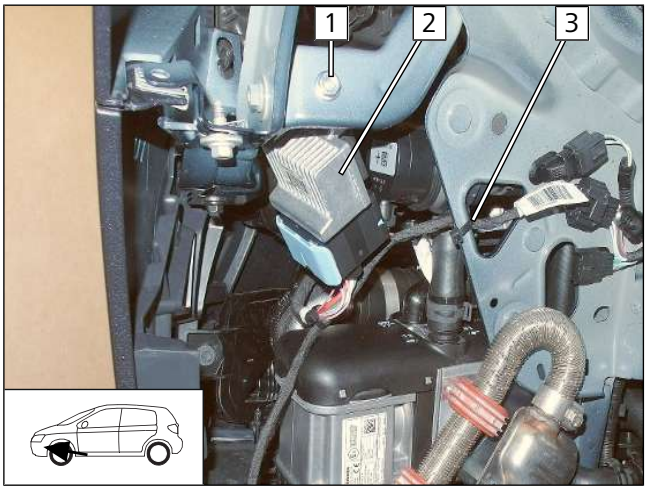


Fig. 84

▶ Align original vehicle control unit [2] and tighten bolts.

▶ Reroute original vehicle wiring harness [3] and attach using cable ties.

[1] M6 flanged nut

Gluing on heat protection film

Fig. 85

[1] Wheel-well inner panel
[2] Heat protection film

Checking distances

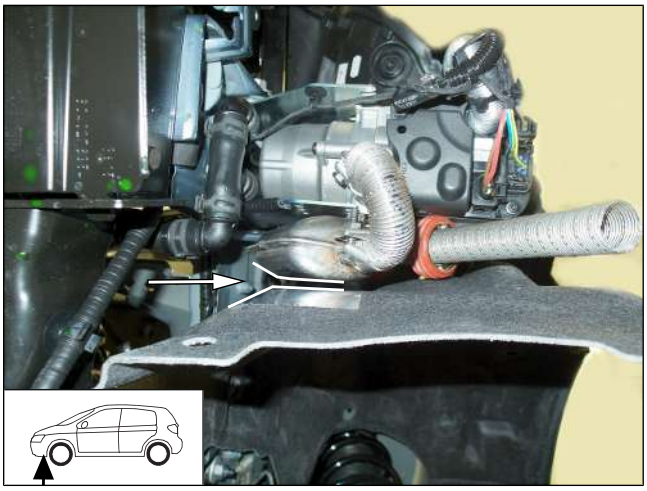


Fig. 86

Ensure sufficient distance from neighbouring components, correct if necessary.

▶ Figure for demonstration purposes without bumper.

13 Electrical system of passenger compartment

13.1 Air-conditioning control

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

'**Webasto Standard**' A/C control installation documentation for Renault Megane with AC

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

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

14 Electrical system of control elements

14.1 MultiControl CAR option

Mounting MultiControl CAR

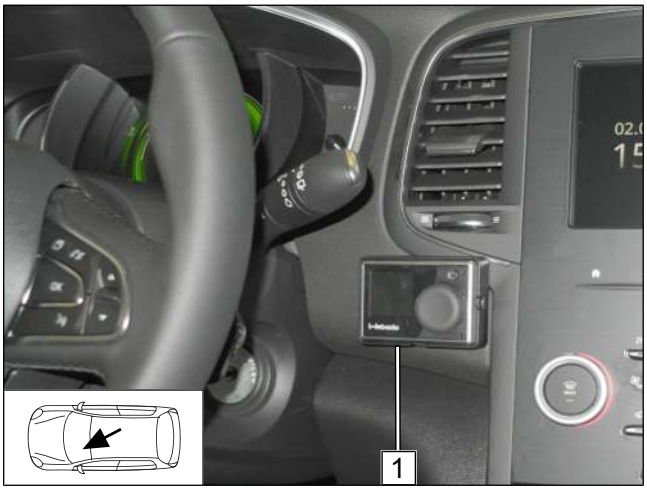


Fig. 87

Installation not possible in case of start button.

Discuss the installation location with the customer.

1 Installation frame

14.2 Telestart option

Mounting receiver

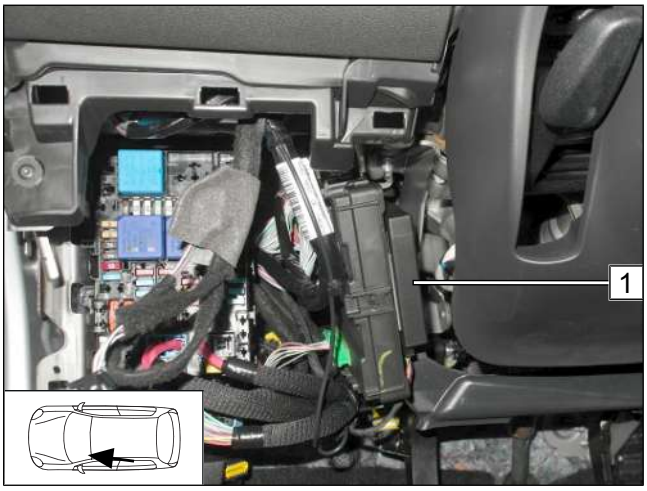


Fig. 88

Observe the Telestart installation documentation.

▶ Fasten receiver 1 using double-sided adhesive tape.

Mounting aerial

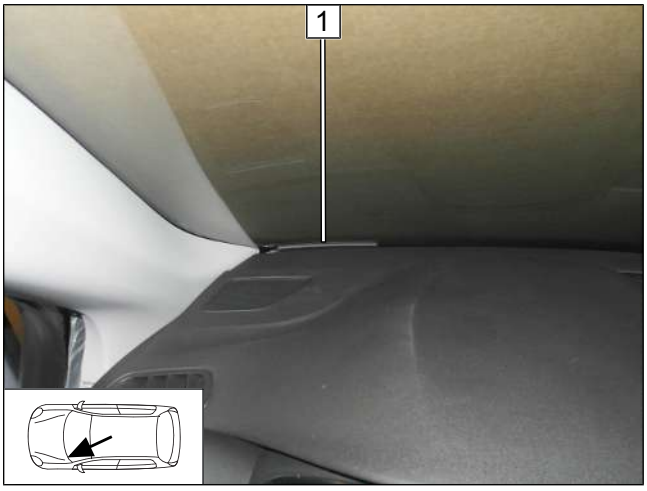


Fig. 89

1 Aerial

Mounting temperature sensor T100 HTM

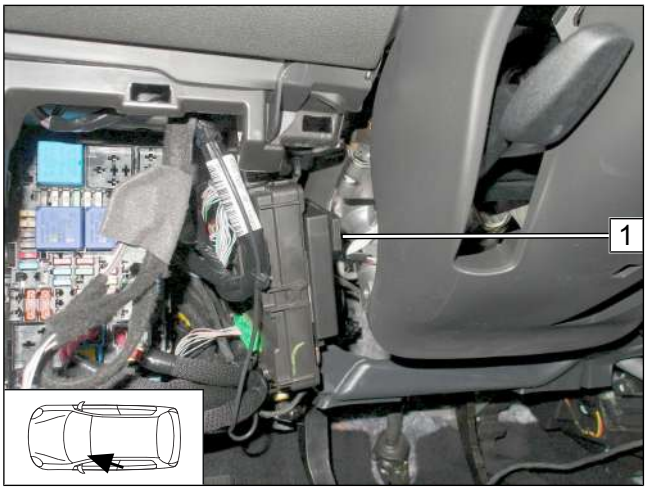


Fig. 90

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

14.3 ThermoCall option

Mounting receiver

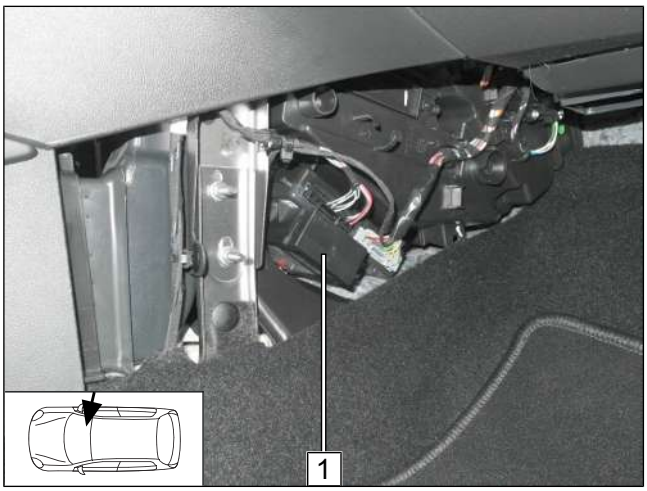


Fig. 91

Observe the ThermoCall installation documentation.

▶ Fasten receiver [1] using double-sided adhesive tape.

Mounting aerial (optional)

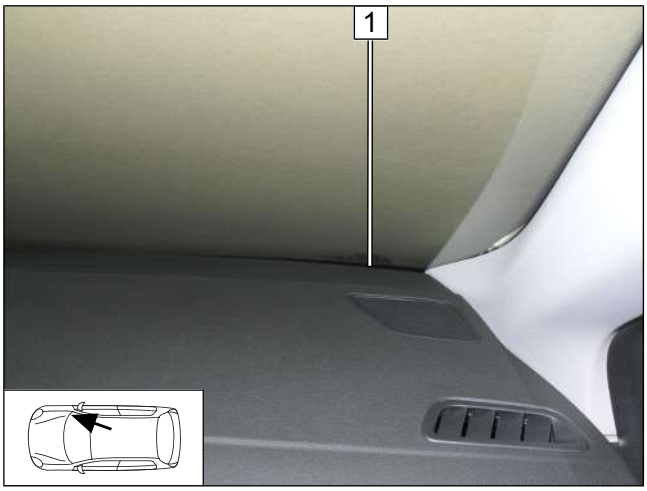


Fig. 92

[1] Aerial

15 Final Work

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

- ▶ Mount removed parts in reverse order.

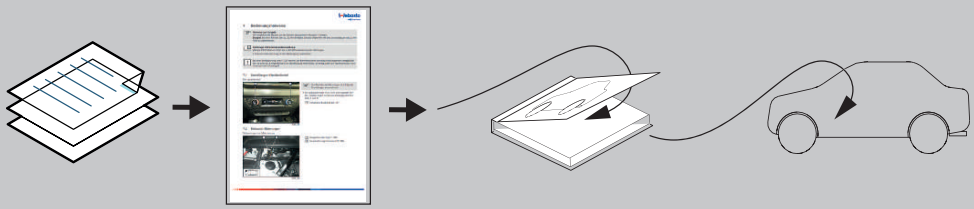
- ▶ Check all hoses, clamps and all electrical connections for firm seating.
- ▶ Insulate and tie back loose lines
- ▶ Spray heater and electrical components with anti-corrosion wax (Tectyl 100K).
- ▶ Connect the battery.

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.

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Only within Germany
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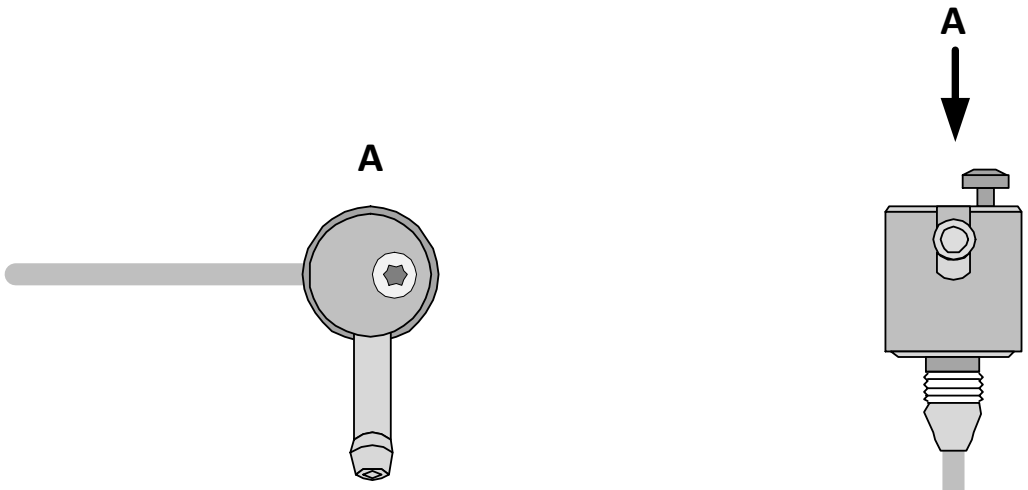
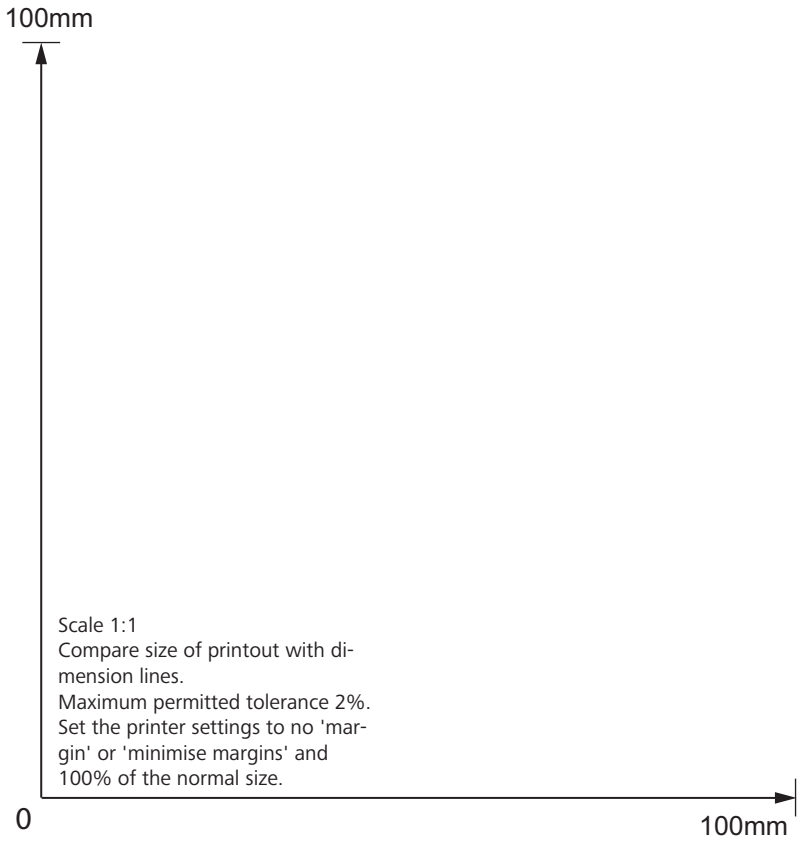
CE

WWW.WEBASTO.COM

16 FuelFix template





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