EN

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Installation documentation

for Thermo Top Evo water heater

'Inline' coolant circuit with engine preheating

Nissan Qashqai

Left-hand drive vehicle

Manufacturer	Model	Type	Model year	EG-BE-No. / ABE
Nissan	Qashqai	J11	from 2019	e11* 2007/46* 0963*…
Nissan	Qashqai	J11	from 2019	e5* 2007/46* 1029*…

Motorisation	Fuel	Emission standard	Transmission type	Output [kW]	Displace-ment [cm³]	Engine code
1.7D	Diesel	Euro 6d Temp	6-speed SG	110	1749	R9N

Validity	Equipment variants	Model
		Qashqai
Verified equipment variants	Manual air-conditioning	x
	2 zone automatic air-conditioning	x
	LED daytime running lights	x
	LED main headlights	x
	Halogen front fog lights	x
	Automatic Start-Stop system	x
	Windscreen heater	x
Unverified equipment variants	Passenger compartment monitoring	x

Total installation time	Note
8.0 hours	

Contents

1 List of abbreviations

AAC	Automatic air-conditioning
AC	Manual air-conditioning
DP	Fuel pump
EFIX	Exhaust end fastener
FF	FuelFix (tank extracting device)
Fig.	Figure
HG	Heater
SG	Manual transmission
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 Nissan Qashqai 2019 diesel	1327671A
Additional 'Webasto Standard' A/C control kit for Nissan Qashqai or Additional 'Webasto Comfort' A/C control kit for Nissan Qashqai	1324070_ 1324068_
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

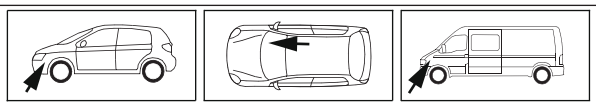
3.4.3 Work step identification marks

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 mm²
– Crimping pliers for cable lugs 0.5 – 10 mm²
– Crimping pliers for male connector 0.14 – 6 mm²
– Crimping pliers for connector 0.25 – 6 mm²
– 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 ▶ Ventilate the fuel tank ▶ Close the fuel tank cap again ▶ Depressurise the cooling system	
Engine compartment and body	▶ Disconnect the battery ▶ Complete battery with battery carrier ▶ Complete air filter with intake hose up to the engine ▶ Engine underride protection ▶ Underbody underride protection on the front passenger's side	
Passenger compartment	▶ Side instrument panel trim on the driver's side ▶ Detach the lower instrument panel trim on the driver's side ▶ Rear bench seat ▶ Open the tank fitting service lid on the front passenger's side	

5.2 Heater preparation

Engine compartment	▶ 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

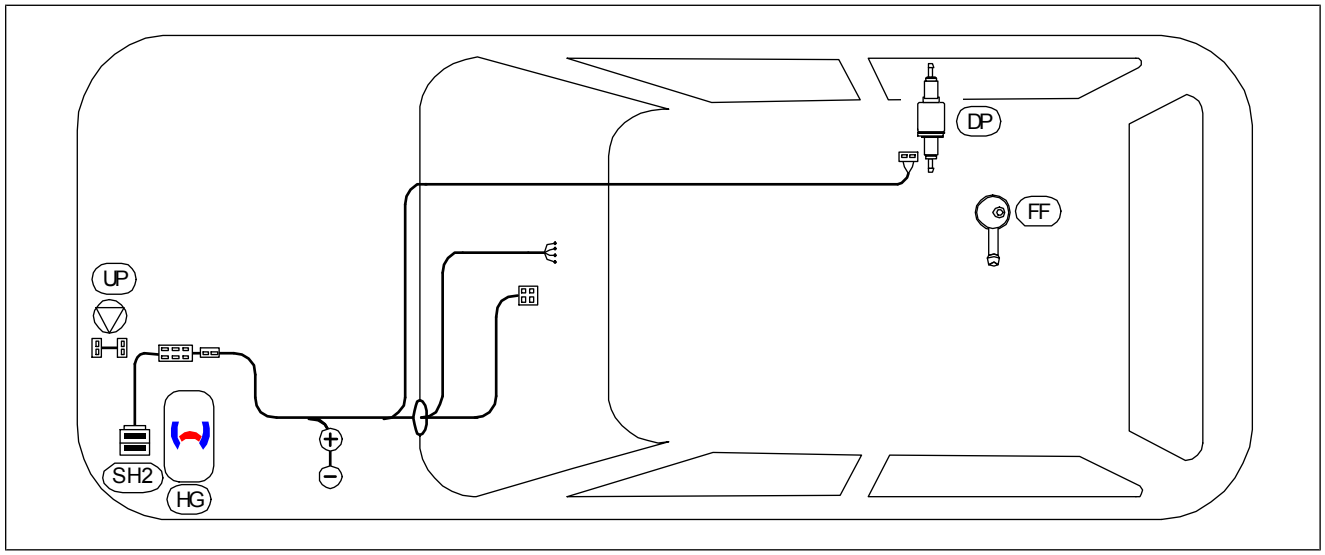


Fig. 1

Legend to installation overview

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

Heater installation location

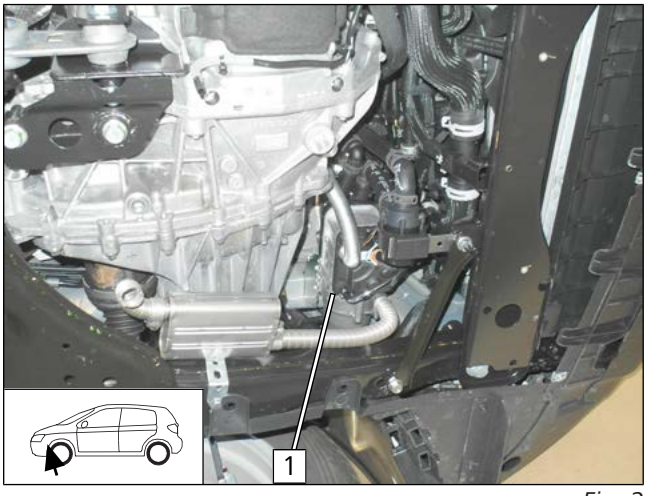


Fig. 2

1 Heater

7 Electrical system of engine compartment

Preparing wiring harness

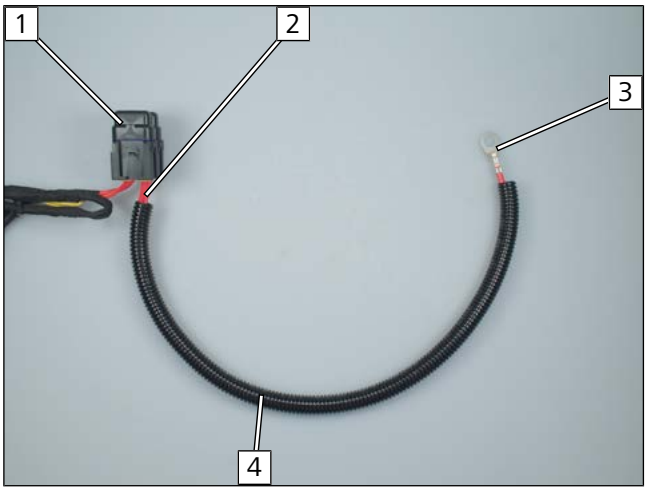


Fig. 3

Determine the cable lug size at the positive support point before crimping.

▶ Slide Ø10, 430 long corrugated tube 4 over positive wire 2, then crimp on cable lug 3.

1 SH2

Premounting retaining plate of SH2

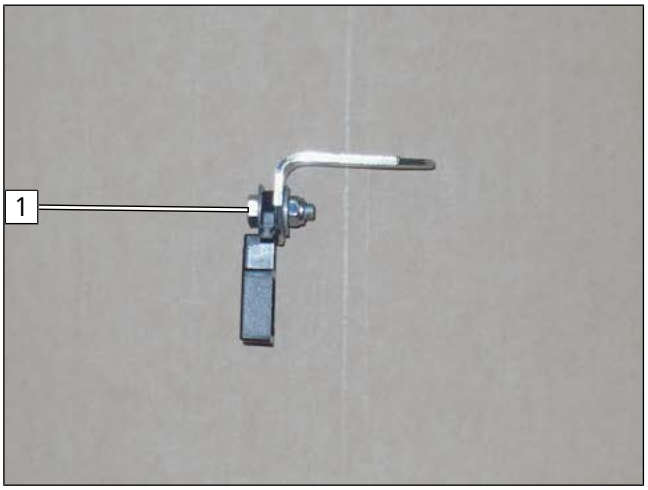


Fig. 4

1 M5x16 bolt, large diameter washer, retaining plate of SH2, angle bracket, large diameter washer, nut

Mounting angle bracket

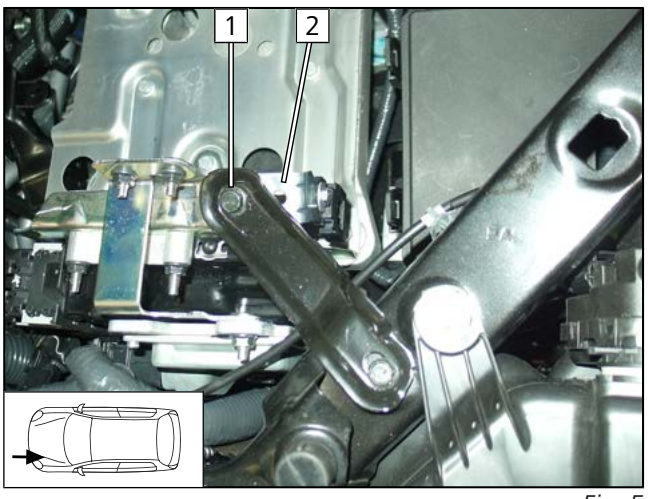


Fig. 5

▶ Unscrew original vehicle bolt 1, position premounted angle bracket 2, fit the bolt again.

Installing SH2

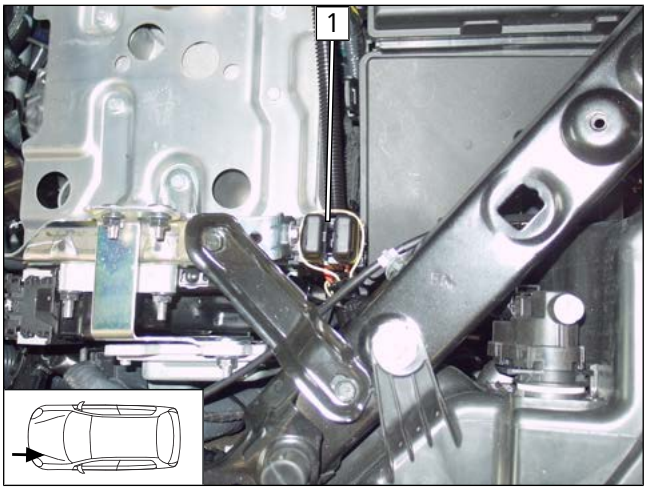


Fig. 6

1 SH2 with fuse F1 and F2

Connecting positive wire

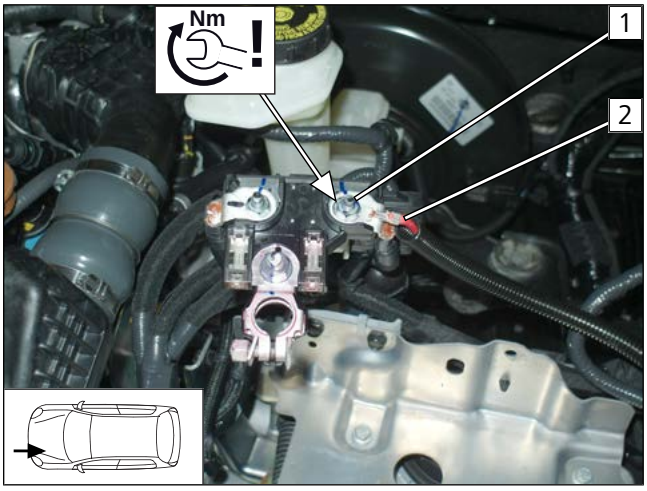


Fig. 7

DANGER

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Original vehicle positive support point

2 Positive wire

Connecting earth wire

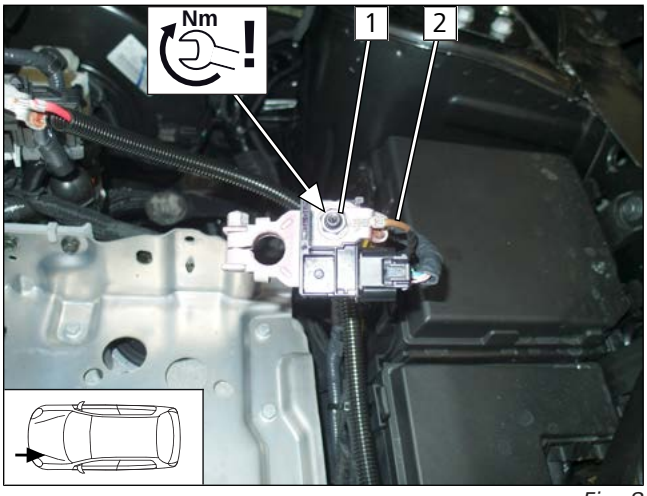


Fig. 8

DANGER

Fire hazard due to insufficient tightening torque

▶ Observe tightening torque

1 Original vehicle earth support point

2 Earth wire

Passenger compartment wiring harness pass through

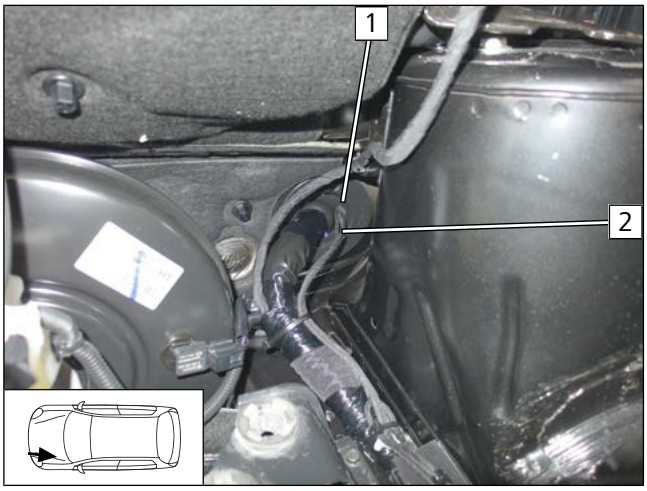


Fig. 9

1 Passenger compartment wiring harness pass through

2 Control element and passenger compartment wiring harnesses

8 Mechanical system

8.1 Preparing installation location

Preparing heater bracket

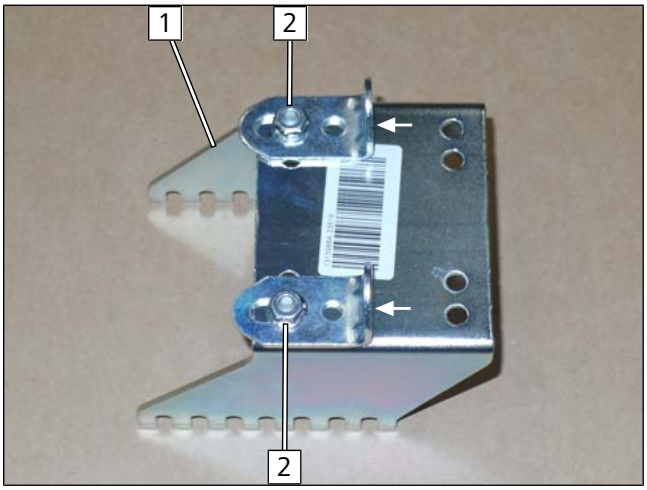


Fig. 10

Push both angle brackets, before fastening, as far as possible in the oblong holes in the direction of the arrow.

[1] Bracket

[2] M6x12 bolt, bracket, angle bracket, tighten flanged nut hand-tight

Drawing a marking

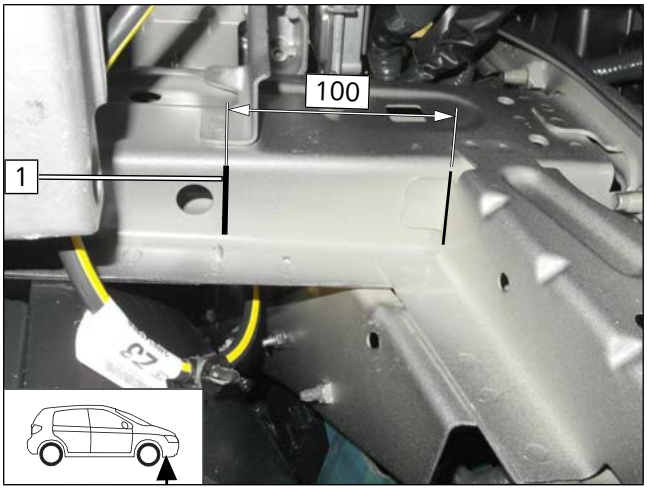


Fig. 11

▶ Draw marking [1] as shown in Fig.

Copying hole pattern

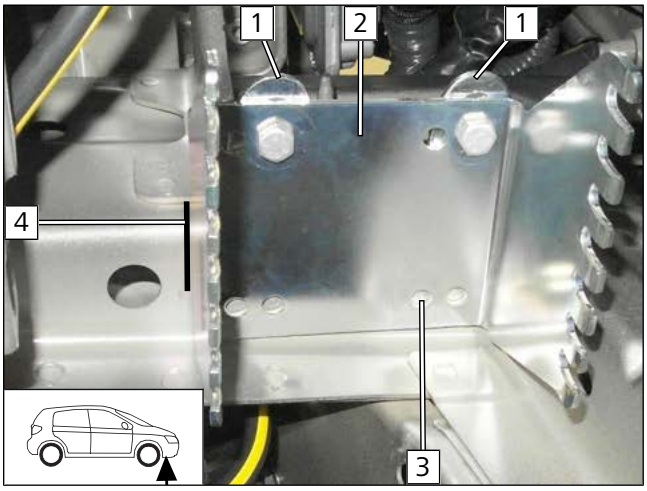


Fig. 12

▶ Position bracket [2] at marking [4] and align with angle brackets [1] on the frame side member.

▶ Copy hole pattern [3].

▶ Remove bracket.

Drilling hole, inserting rivet nut

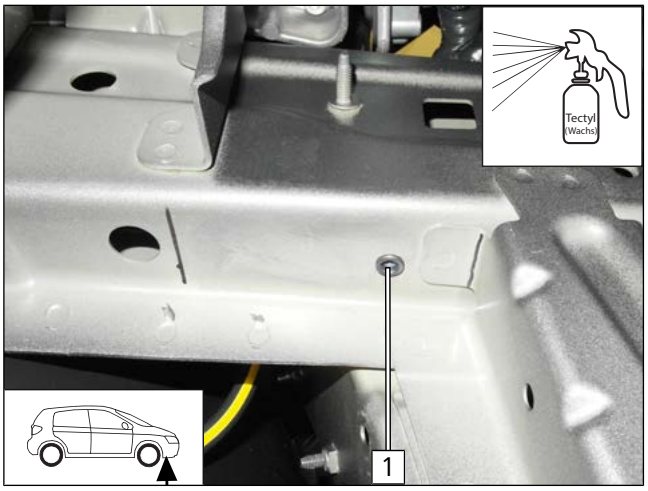


Fig. 13

1 Ø9 hole, rivet nut

Copying hole pattern

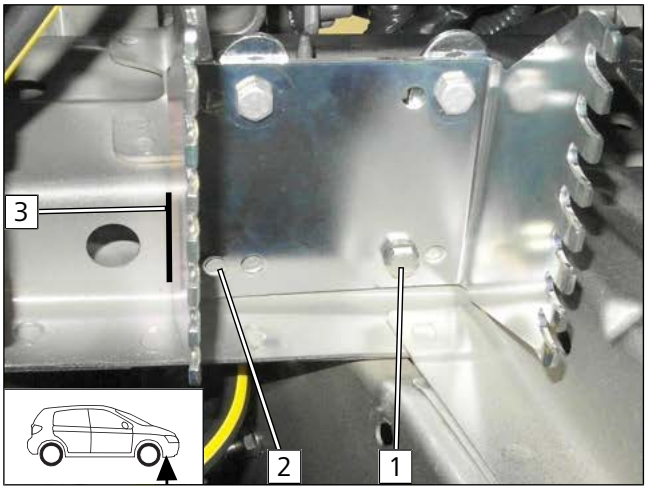


Fig. 14

▶ Align bracket with marking 3 and mount loosely.

1 M6x20 bolt, spring lock washer, bracket, rivet nut

2 Copy hole pattern

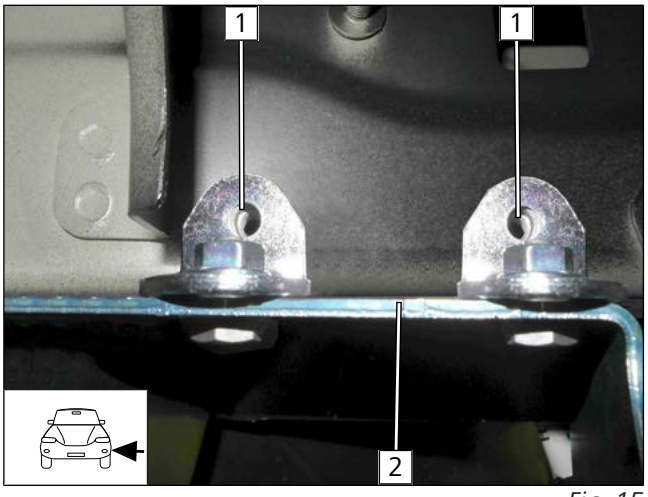


Fig. 15

▶ Align angle bracket on frame side member and copy hole pattern 1.

▶ Remove bracket 2.

Drilling hole, inserting rivet nuts

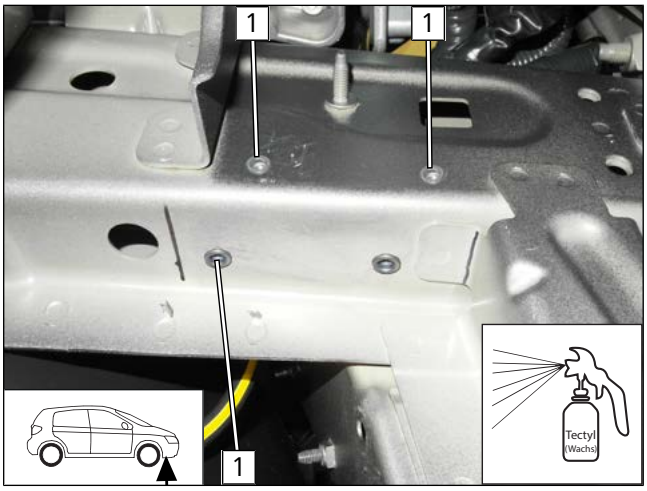


Fig. 16

1 Ø9 hole, rivet nut

Mounting bracket

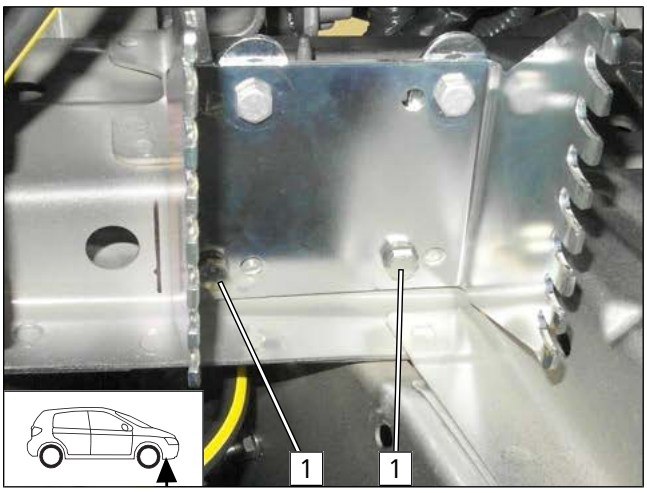


Fig. 17

1 M6x20 bolt, spring lock washer, bracket, rivet nut

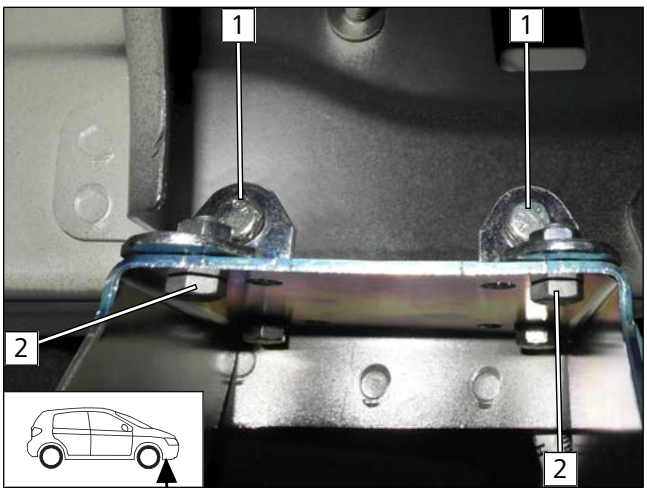


Fig. 18

1 M6x20 bolt, spring lockwasher, angle bracket, rivet nut

2 Tighten screw connections

8.2 Premounting heater

Mounting water connection piece

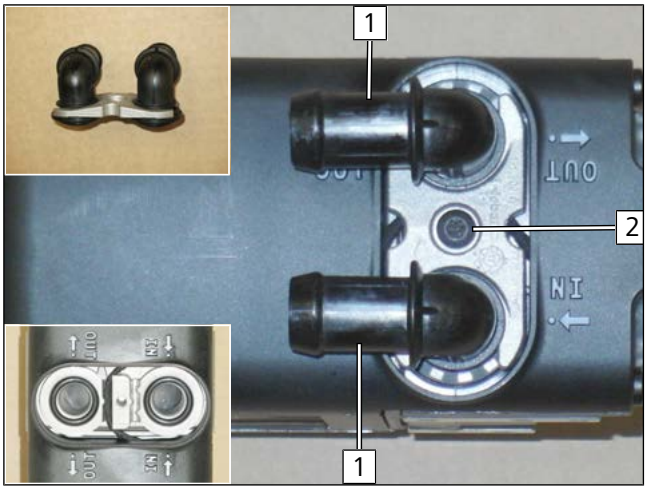


Fig. 19

Observe the general installation instructions of the heater.

1 90° water connection piece, seal

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

Premounting bolts loosely

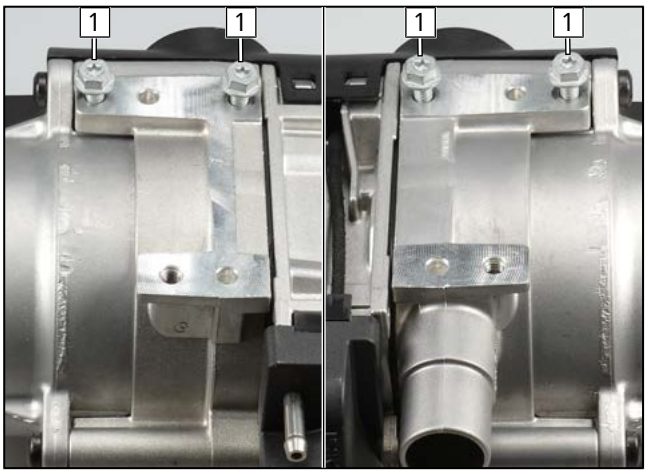


Fig. 20

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

Cutting hoses to length

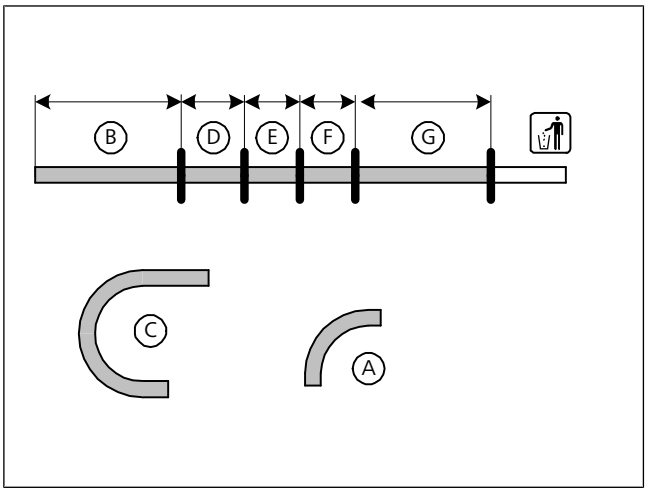


Fig. 21

Ⓐ	90° moulded hose
Ⓑ	510
Ⓒ	180° moulded hose
Ⓓ	170
Ⓔ	150
Ⓕ	150
Ⓖ	490

Mounting fabric heat shrink tubing

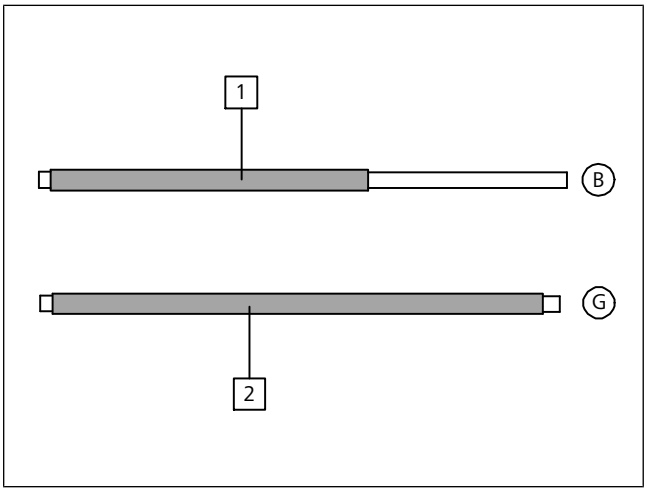


Fig. 22

▶ 1. Slide on and cut to length
▶ 2. Shrink, use at most 230 °C

1 300
2 450

Premounting hoses

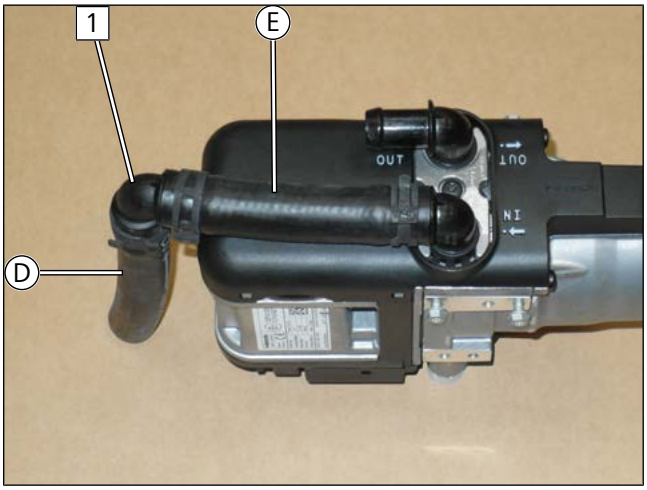


Fig. 23

All spring clips Ø25

1 18x18, 90° connecting pipe

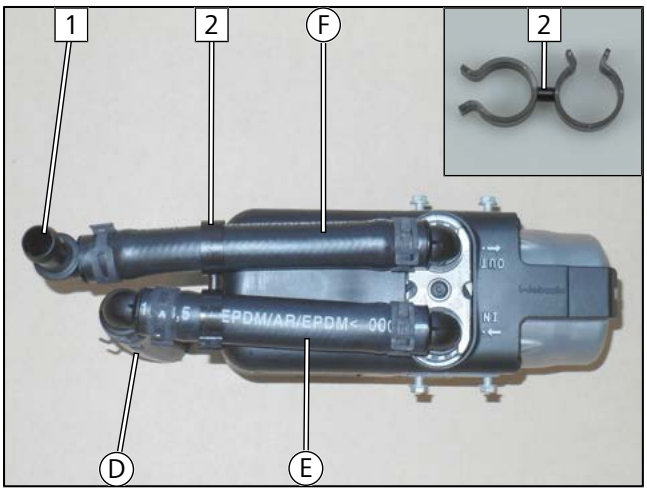


Fig. 24

All spring clips Ø25

1 18x18, 90° connecting pipe
2 25x28 hose bracket

8.3 Heater mounting

Mounting heater

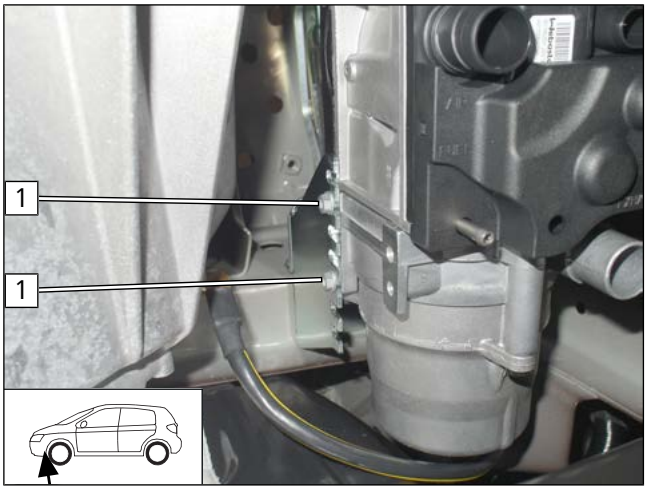


Fig. 25

▶ Tighten 5x13 self-tapping bolt 1.

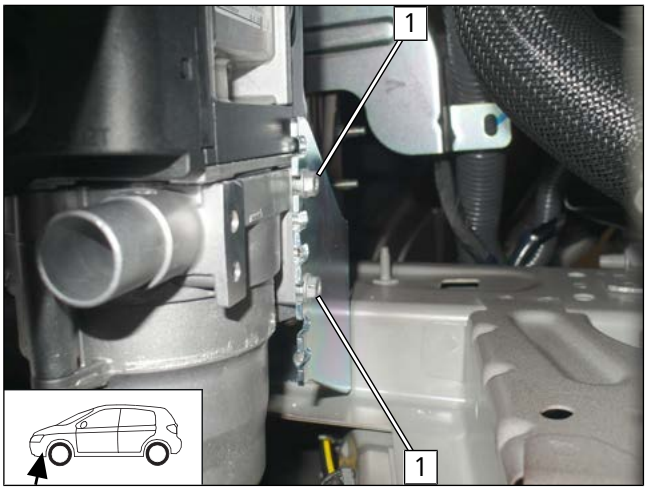


Fig. 26

▶ Tighten 5x13 self-tapping bolt 1.

Mounting heater wiring harness

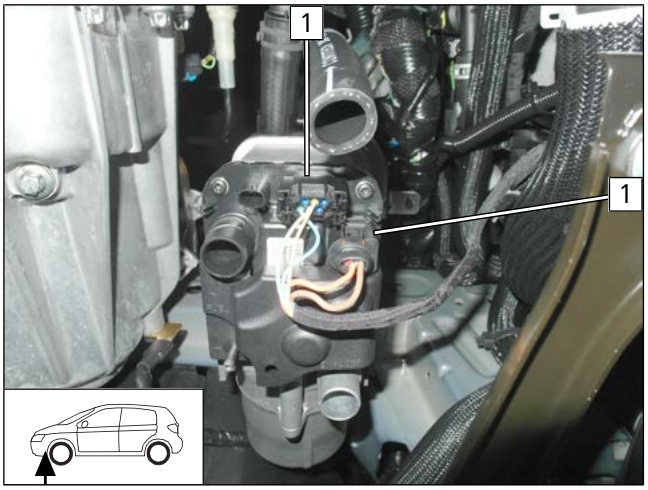


Fig. 27

1 Heater wiring harness connector

9 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

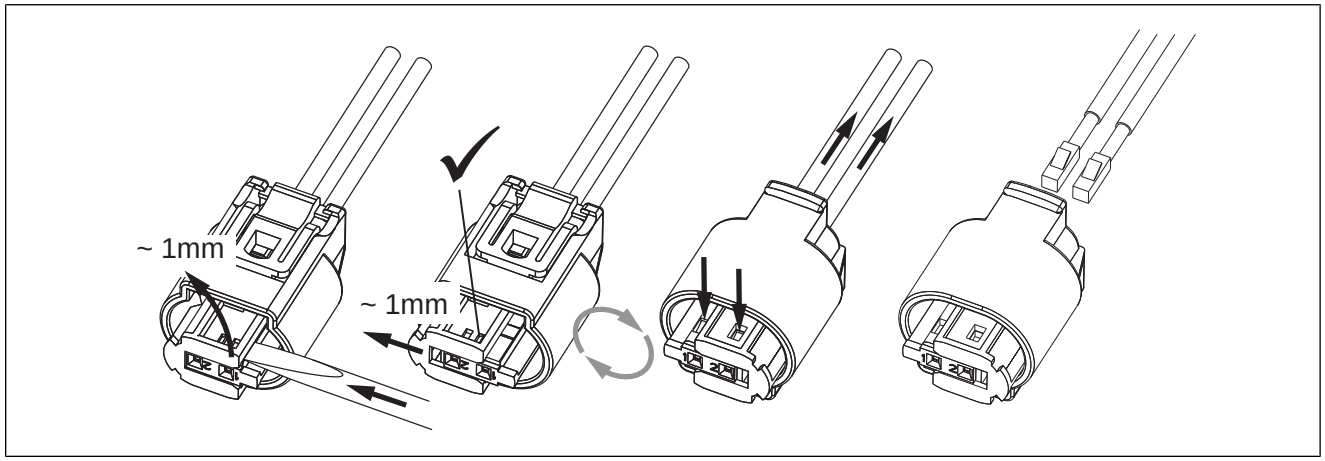


Fig. 28

9.1 Routing fuel line

Assigning corrugated tube

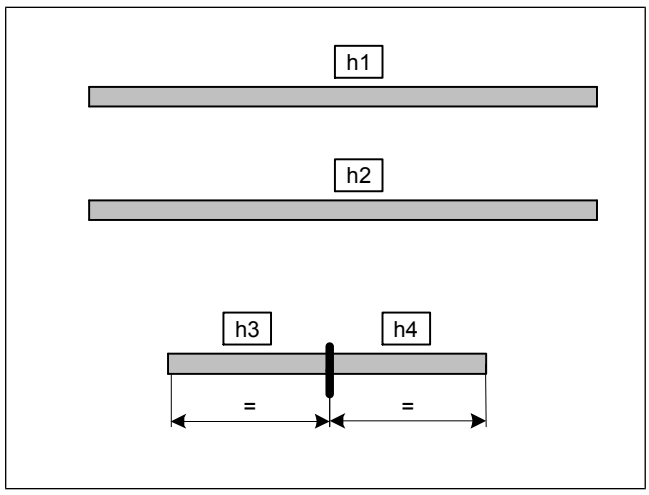


Fig. 29

h1 2100
h2 2100
h3 565
h4 565

Connecting heater

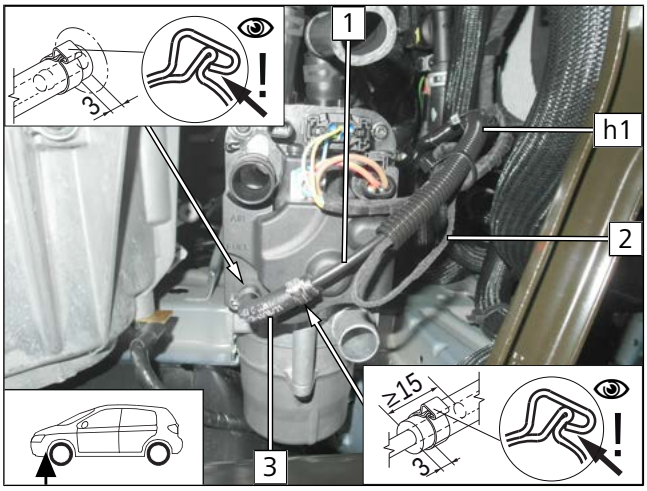


Fig. 30

▶ Draw fuel line [1] and fuel pump wiring harness [2] into corrugated tube [**h1**] and route in the engine compartment.

[3] 90° moulded hose, Ø10 clamp [2x]

Routing in engine compartment

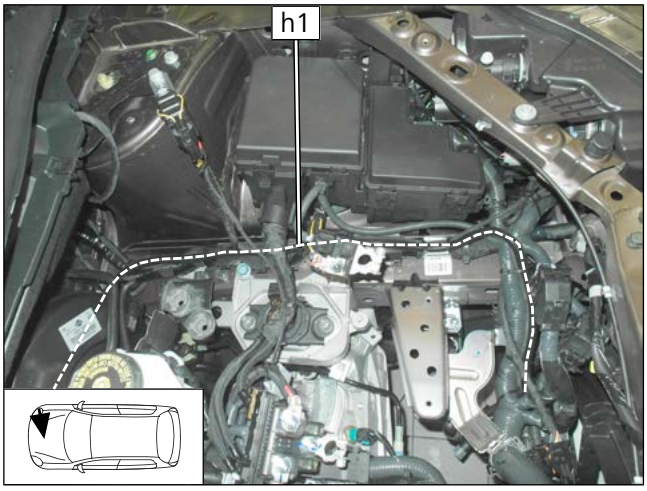


Fig. 31

▶ Route corrugated tube with fuel line and fuel pump wiring harness [**h1**] to the firewall.

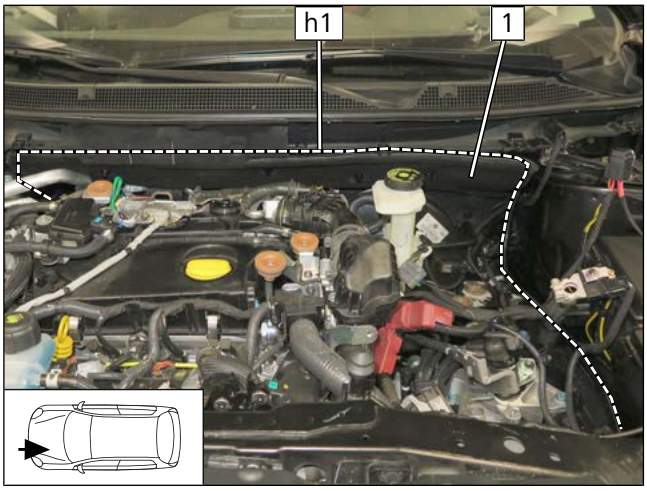


Fig. 32

▶ Route fuel line and fuel pump wiring harness in corrugated tube [**h1**] behind insulation mat [1] to the front passenger's side.

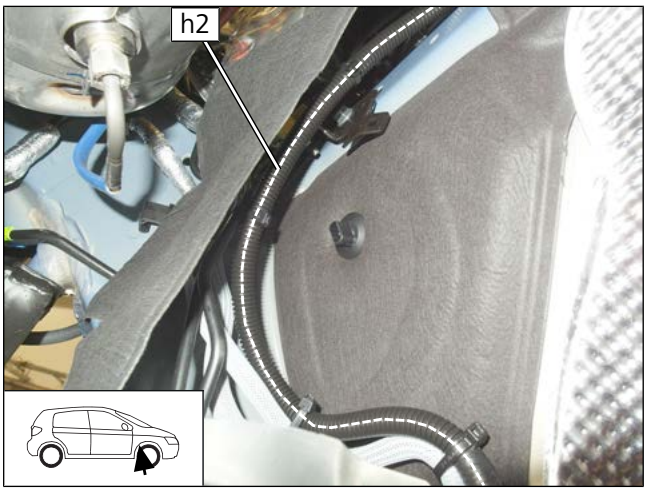


Fig. 33

▶ Route corrugated tube **h2** with fuel line and fuel pump wiring harness along original vehicle fuel lines to the underbody.

Routing on underbody

Fig. 34

▶ Route corrugated tube **h2** with fuel line and fuel pump wiring harness along original vehicle fuel lines on the underbody.

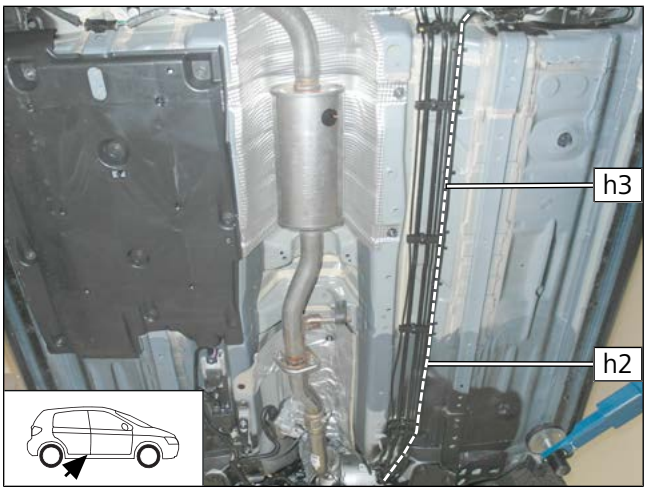


Fig. 35

▶ Route corrugated tubes **h2** and **h3** with fuel line and fuel pump wiring harness along original vehicle fuel lines to the fuel pump installation location.

9.2 Mounting and connecting fuel pump

Premounting fuel pump

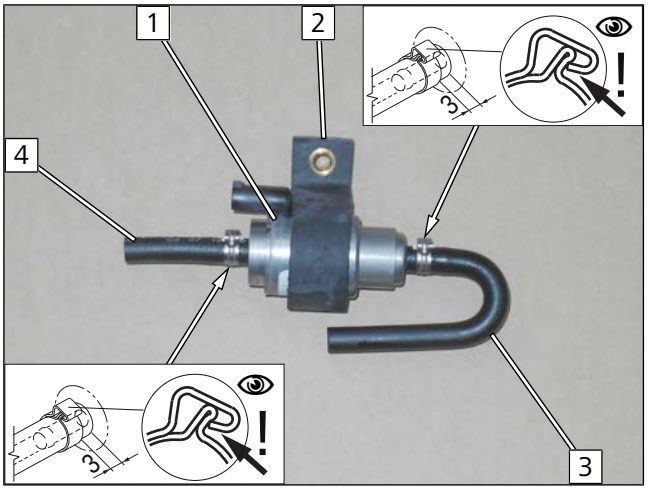


Fig. 36

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

Preparing fuel pump installation location

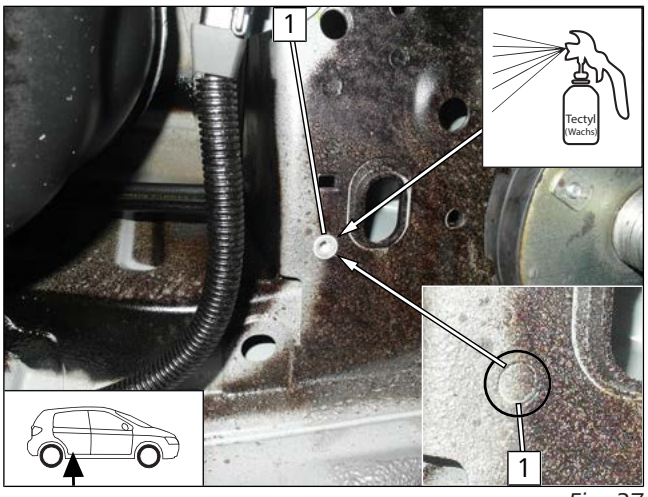


Fig. 37

▶ Drill a Ø9 hole at position 1 in the 2nd layer of the double walled metal sheet.

1 Inserting rivet nut

Mounting fuel pump

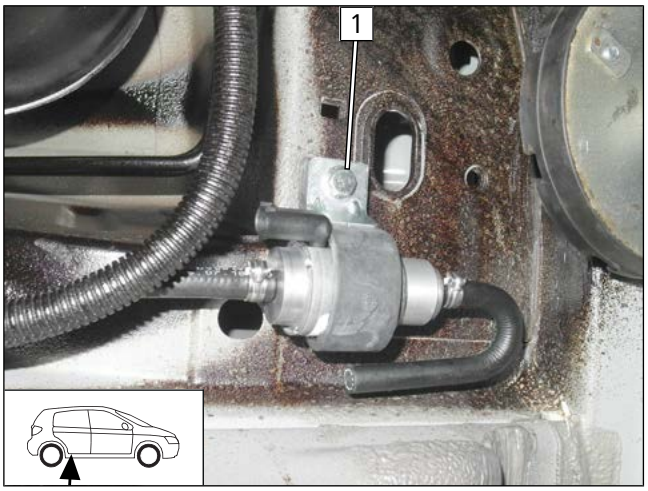


Fig. 38

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

Assembling fuel pump connector X7

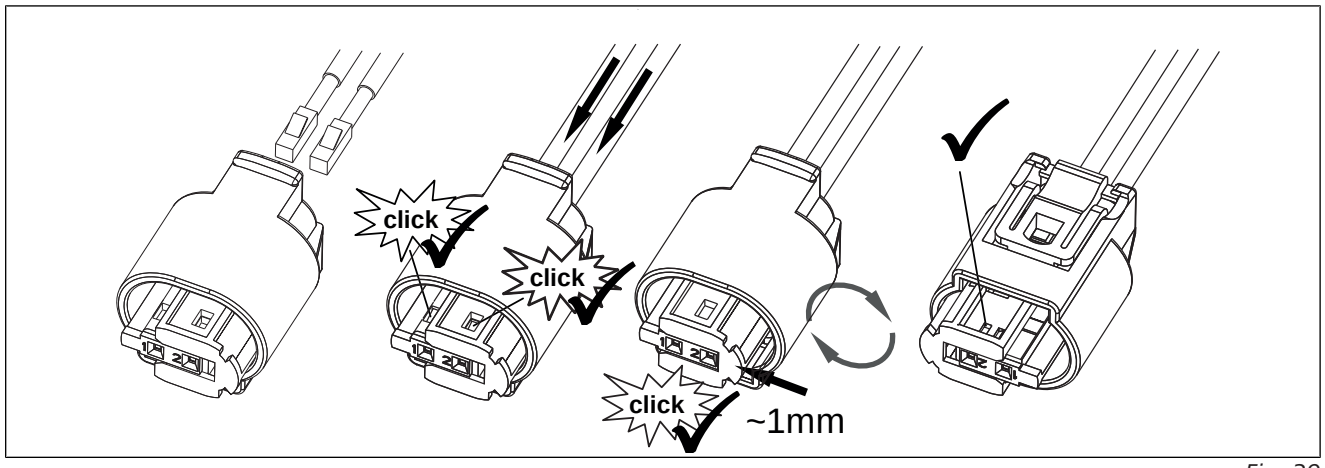


Fig. 39

Connecting fuel pump

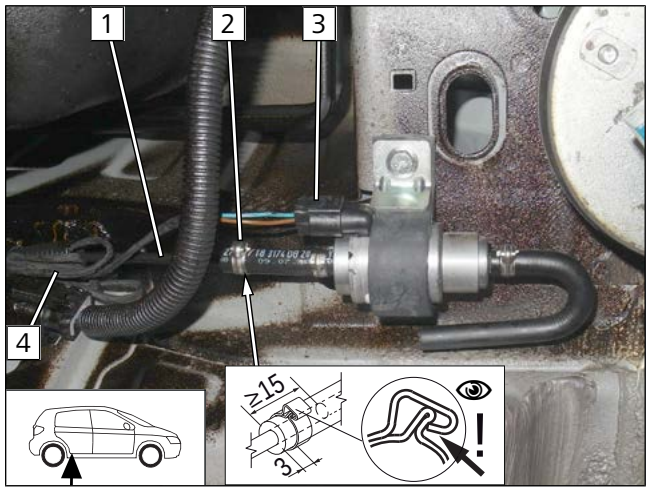


Fig. 40

▶ Cut corrugated tube **h2** in front of the fuel pump. Attach the rest of the fuel pump wiring harness **4** to the original vehicle lines.

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

9.3 Installing FuelFix

Moving label, drawing guide line

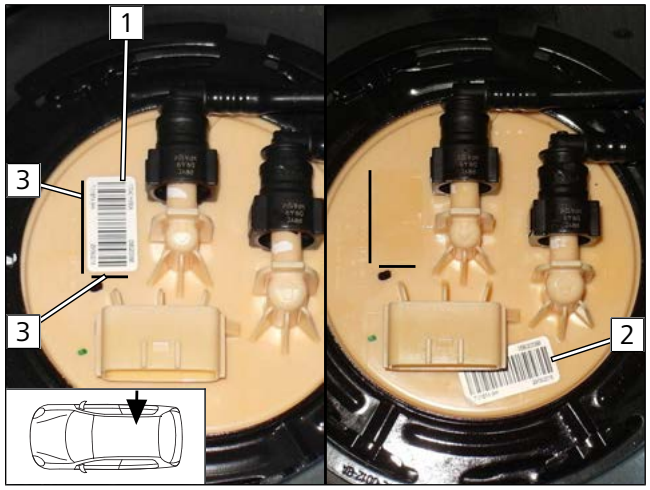


Fig. 41

▶ Draw guide line **3** on existing embossing.

1 Original position of label
2 New position of label

View of drilling template

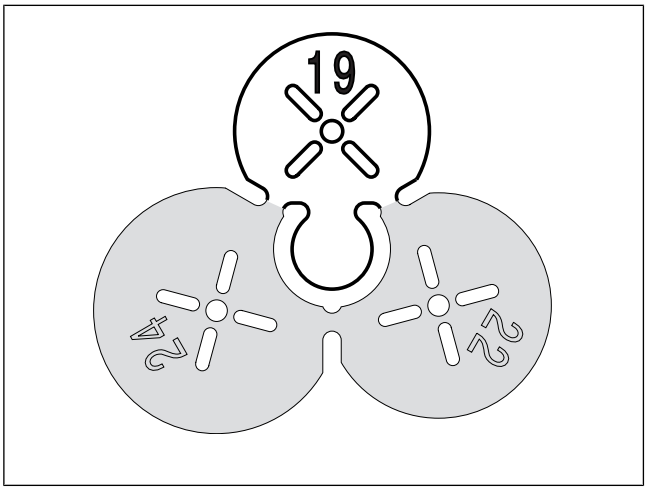


Fig. 42

Work steps F1, F2

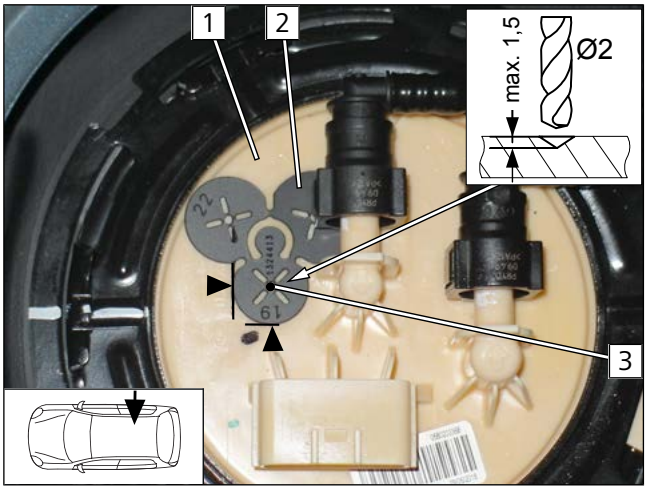


Fig. 43

Observe the installation instructions of the tank extracting device.

▶ Position Ø19 drilling template [2] at the embossing as shown.

[1] Tank fitting

[3] Ø2 centring hole

Work step F3

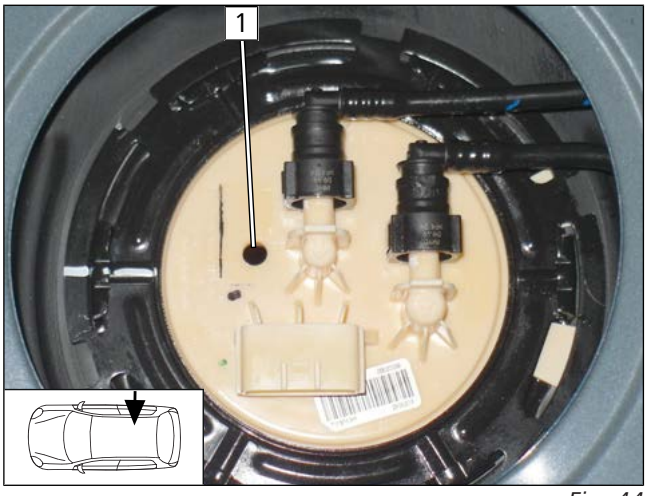


Fig. 44

DANGER

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

[1] Hole made with provided drill

Work steps F4, F5

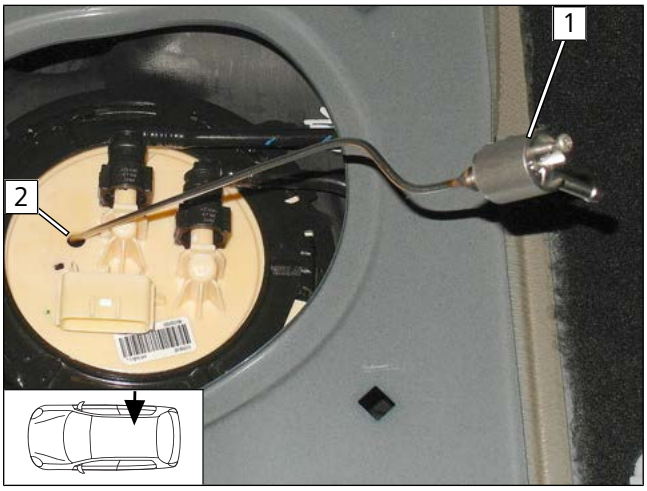


Fig. 45

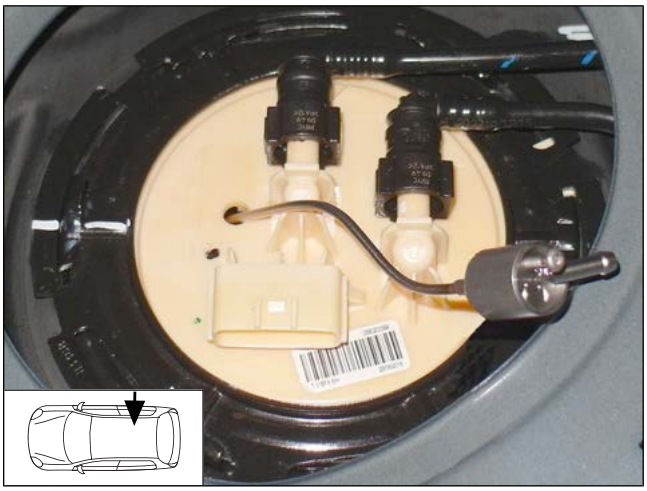


Fig. 46

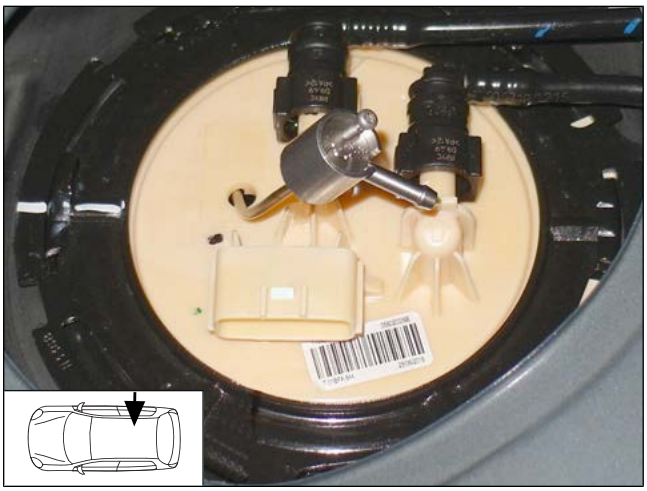


Fig. 47

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

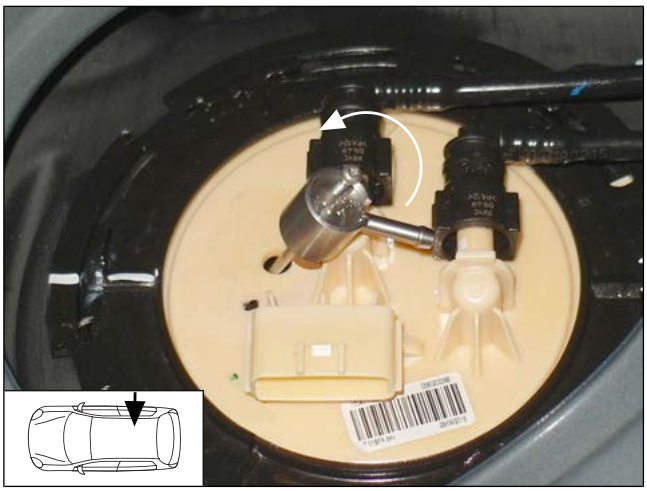


Fig. 48

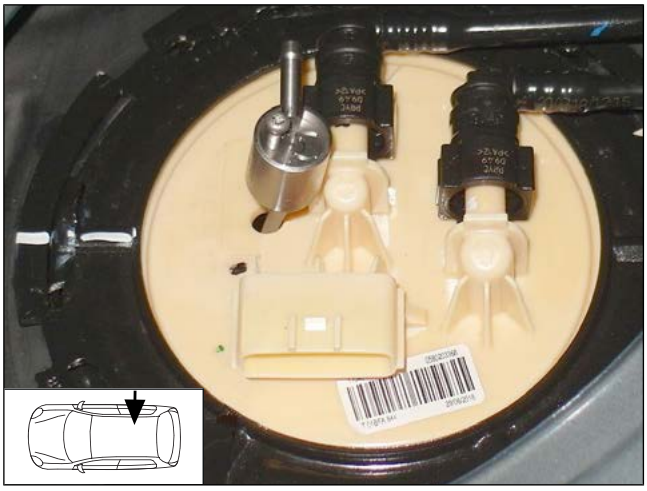


Fig. 49

Work steps F5.3, F5.4

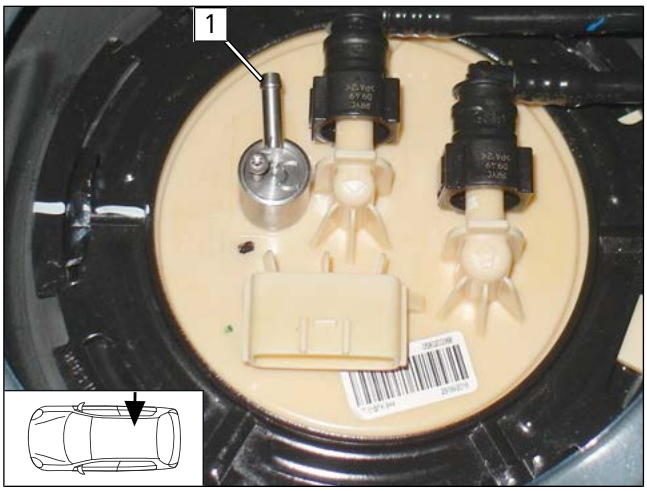


Fig. 50

▶ Align FuelFix 1 as shown.

Work step F6

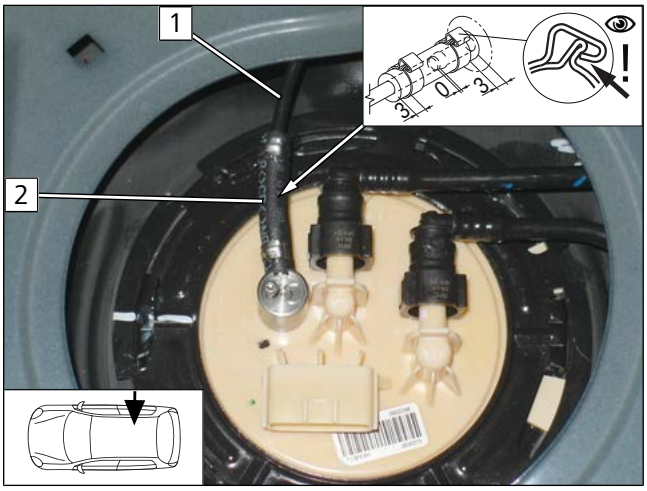


Fig. 51

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

Work step F7

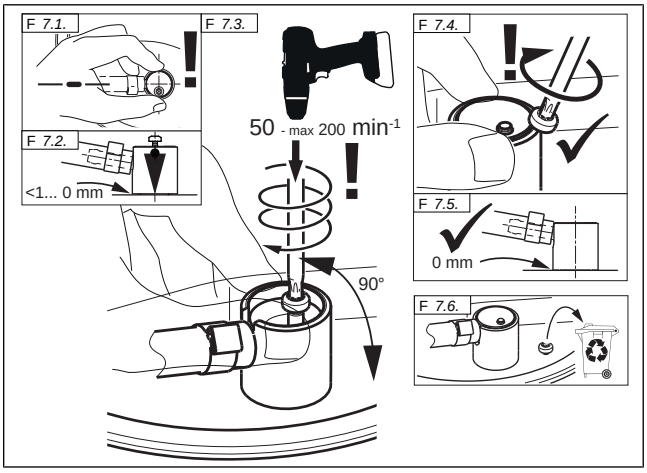


Fig. 52

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

Work step F8

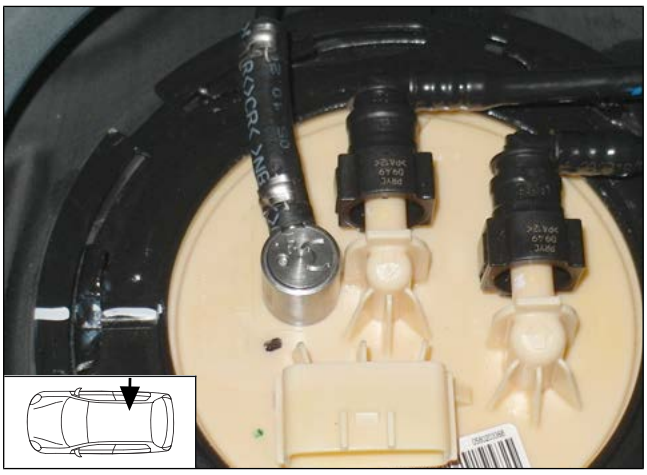


Fig. 53

Securing fuel line

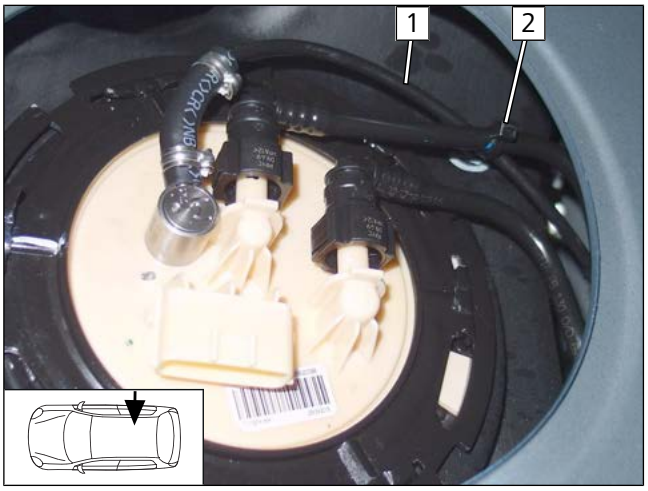


Fig. 54

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

Connecting fuel pump

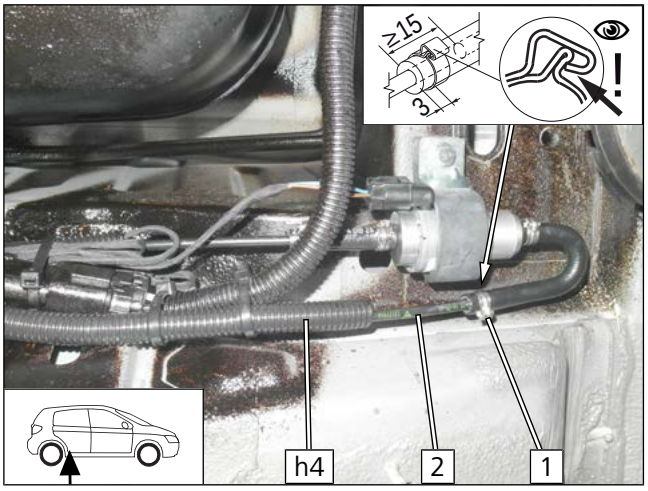


Fig. 55

Danger of damage to components

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

1 Ø10 clamp

2 Fuel line of FuelFix in corrugated tube **h4**

10 Coolant

10.1 Hose routing diagram

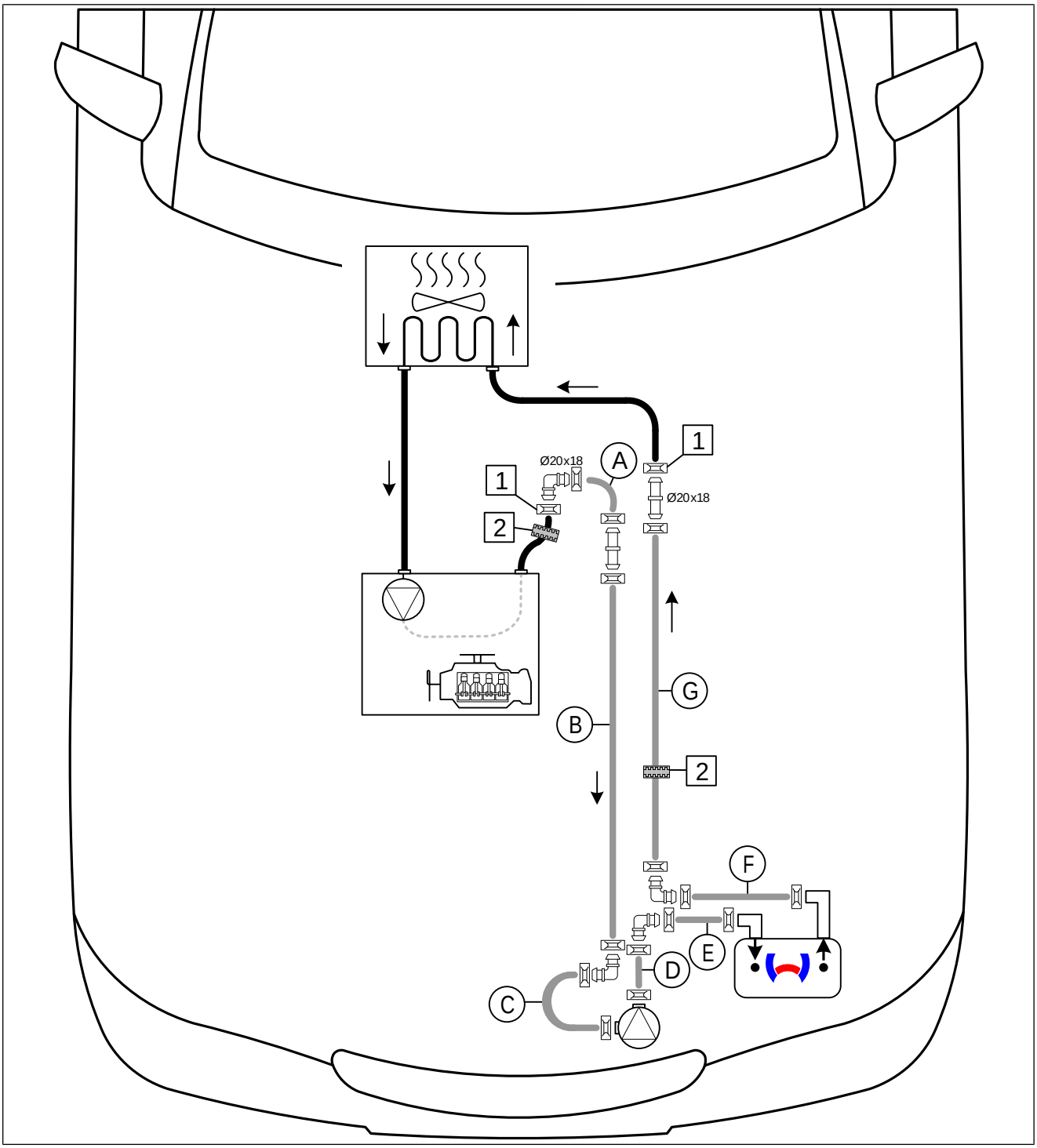


Fig. 56

All spring clips without a specific designation = Ø25

All connecting pipes without a specific designation or = Ø18x18

1 Original vehicle spring clip; 2 Black rubber isolator

10.2 Coolant circuit installation

Moving original vehicle wiring harness

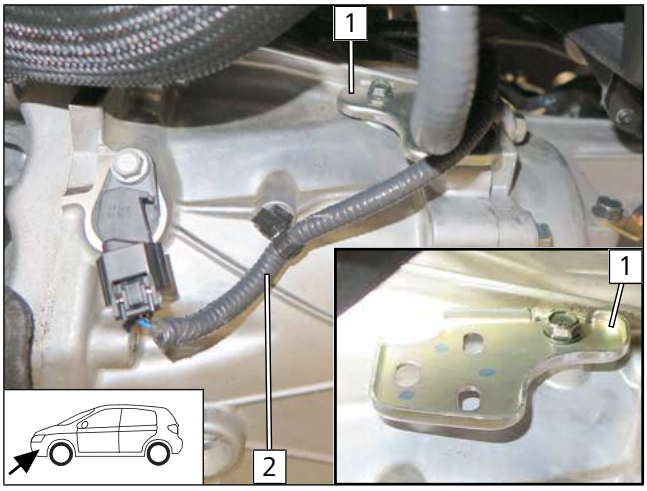


Fig. 57

- ▶ Detach bracket [1] and remove original vehicle wiring harness [2] from clip.
- ▶ Turn bracket [1] by 180° and reinstall.

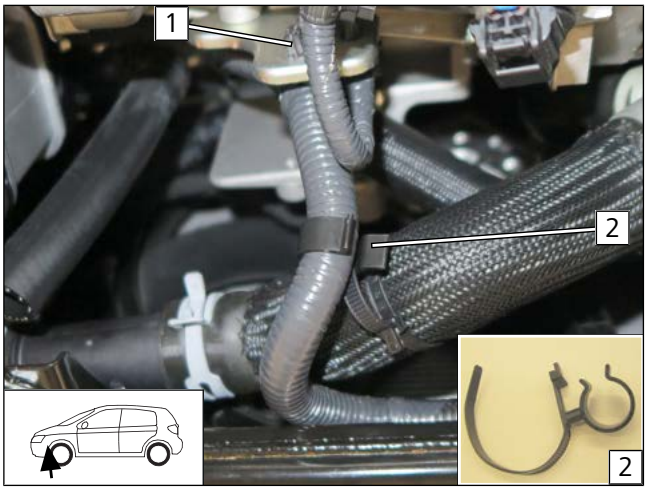


Fig. 58

- ▶ Insert original vehicle wiring harness at pos. [1] in clip and fasten with hose bracket [2].

Preparing perforated bracket

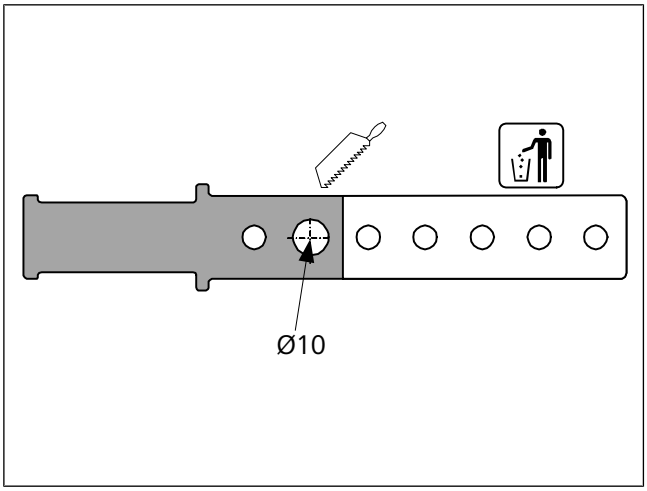


Fig. 59

Premounting coolant pump

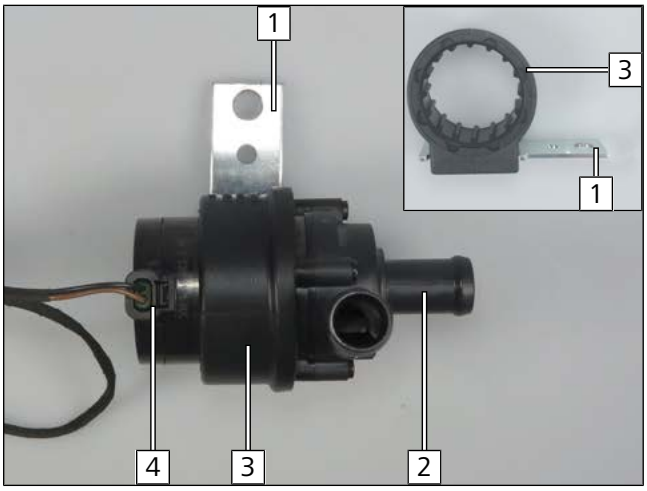


Fig. 60

1 Perforated bracket
2 Coolant pump
3 Coolant pump mount
4 Coolant pump wiring harness connector

Mounting coolant pump

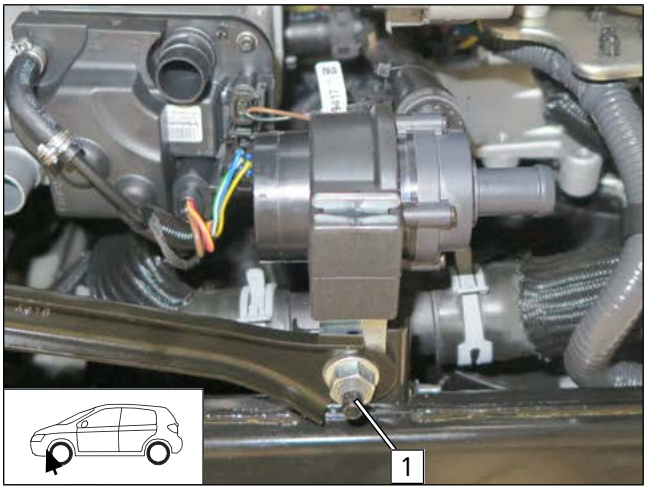


Fig. 61

1 Original vehicle bolt, original vehicle tab, perforated bracket, original vehicle cross member, original vehicle flanged nut

Connecting hose (D) to coolant pump outlet

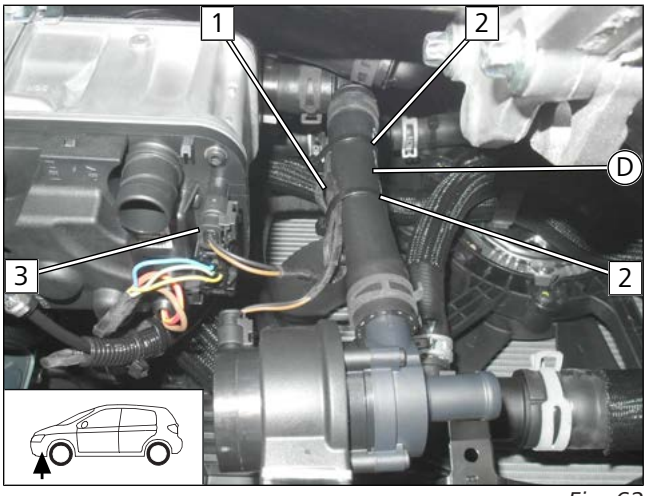


Fig. 62

▶ Fasten coolant pump wiring harness 1 with cable tie 2 as shown.

3 Coolant pump wiring harness connector

Preparing hoses Ⓑ, Ⓒ and Ⓖ

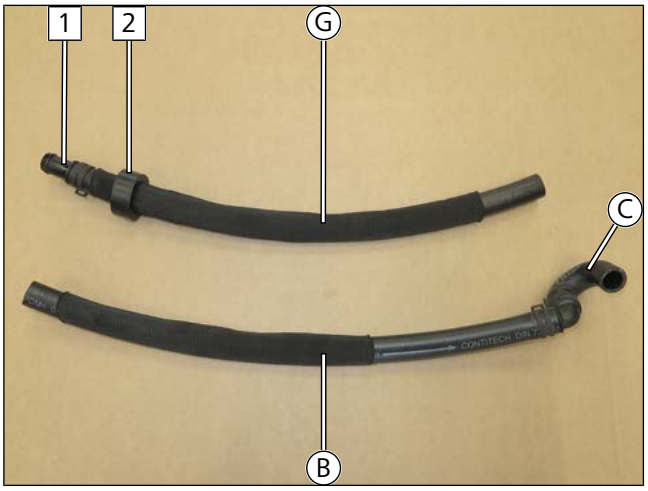


Fig. 63

Ø20x18 connecting pipe 1

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

Connecting hose Ⓒ to coolant pump inlet

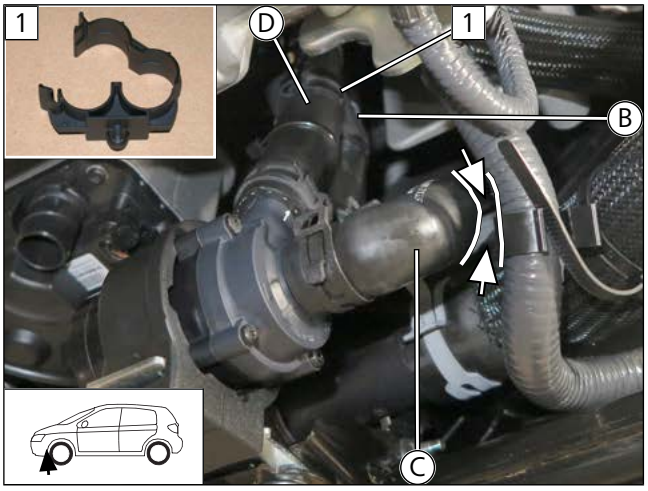


Fig. 64

Danger of damage to components

▶ Ensure sufficient distance between hose Ⓒ and original vehicle wiring harness, correct if necessary.

1 Hose bracket between hose Ⓑ and hose Ⓓ

Premounting bolts

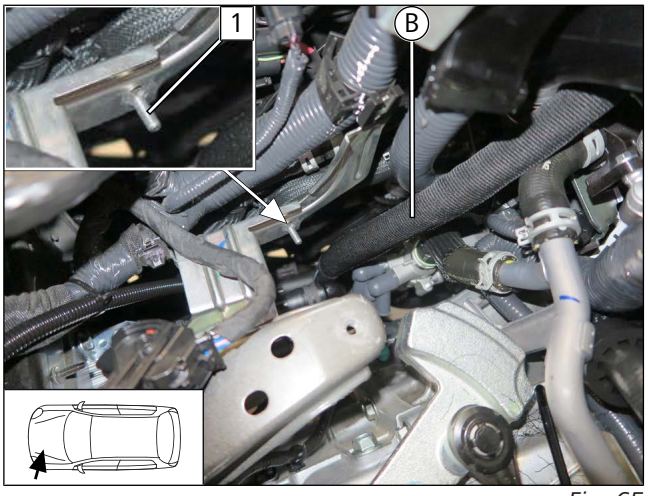


Fig. 65

1 M6x20 bolt, large diameter washer, original vehicle hole, lock washer

Fastening hose Ⓑ

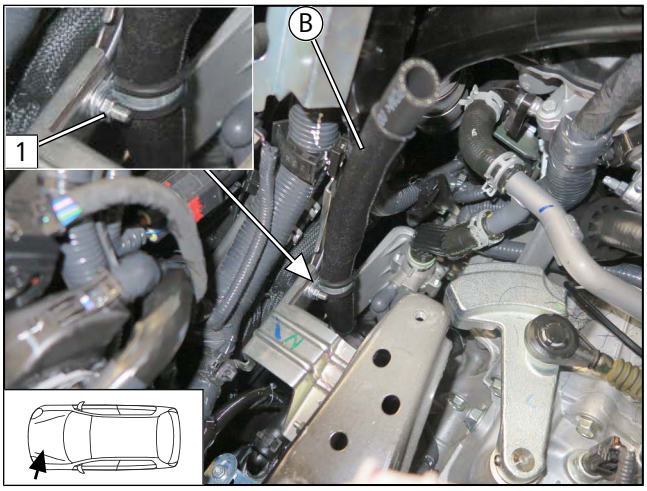


Fig. 66

1 Premounted M6x20 bolt, Ø25 rubber-coated p-clamp, flanged nut

Connecting hose Ⓖ to hose Ⓕ

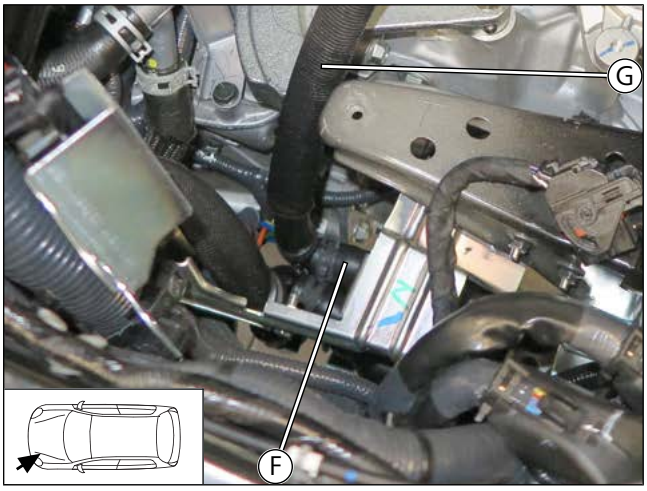


Fig. 67

Cutting point

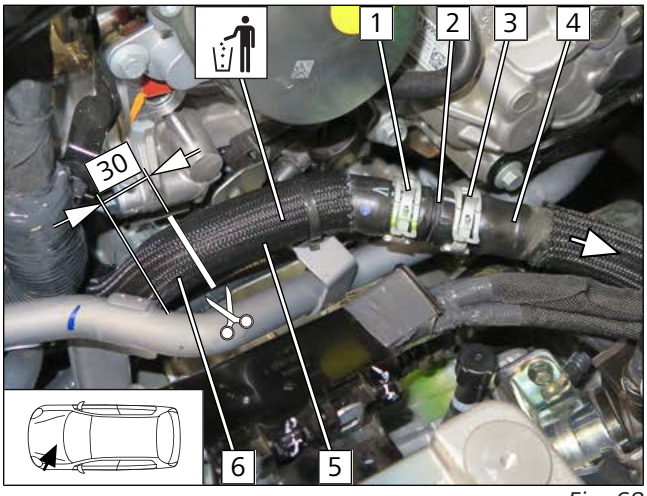


Fig. 68

- ▶ Remove engine outlet/heat exchanger inlet hose 4 from original vehicle connecting pipe 2. Original vehicle spring clip 3 will be reused.
- ▶ Cut engine outlet hose section 5 to length as shown and discard together with original vehicle connecting pipe 2. Original vehicle spring clip 1 will be reused.
- ▶ Remove fabric tubing protector at position 6.

Mounting rubber isolator

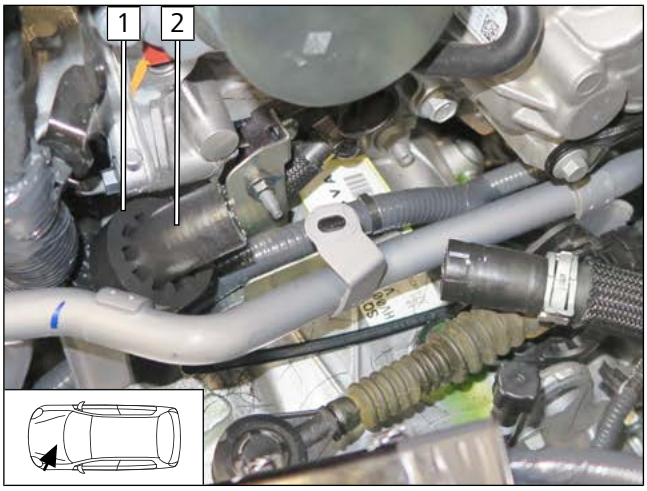


Fig. 69

▶ Mount black (sw) rubber isolator [1] onto engine outlet hose section [2].

Preparing hose Ⓐ

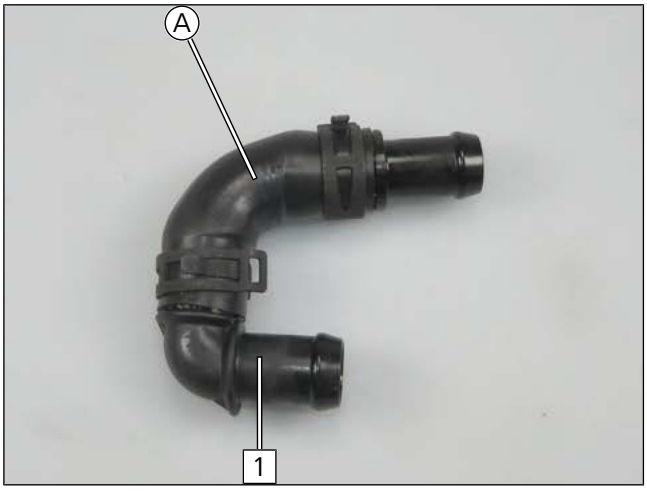


Fig. 70

Ø20x18/90° connecting pipe [1]

Engine outlet connection

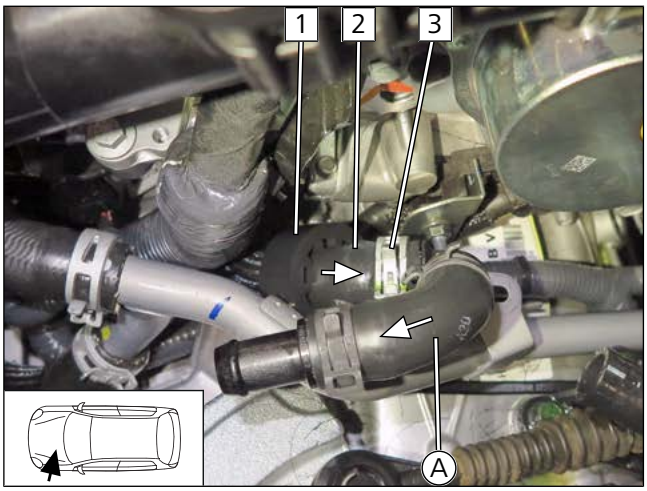


Fig. 71

▶ Connect hose Ⓐ with 90° connecting pipe, Ø20 connection piece to engine outlet hose section [2].

[1] Align black (sw) rubber isolator with original vehicle line

[3] Original vehicle spring clip

Connecting hose (B) to hose (A)

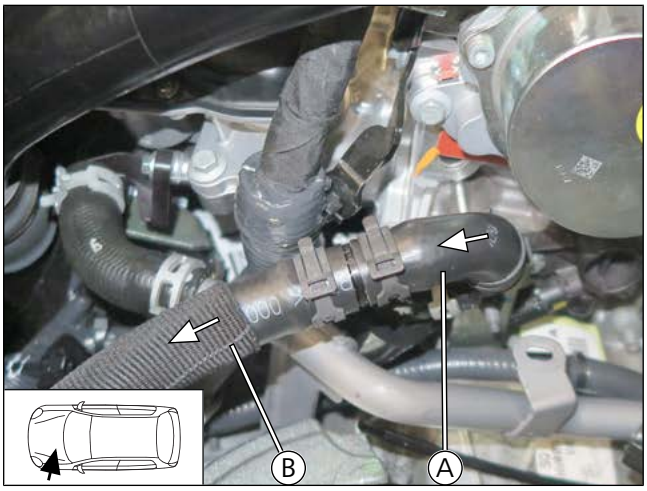


Fig. 72

Installing cable tie

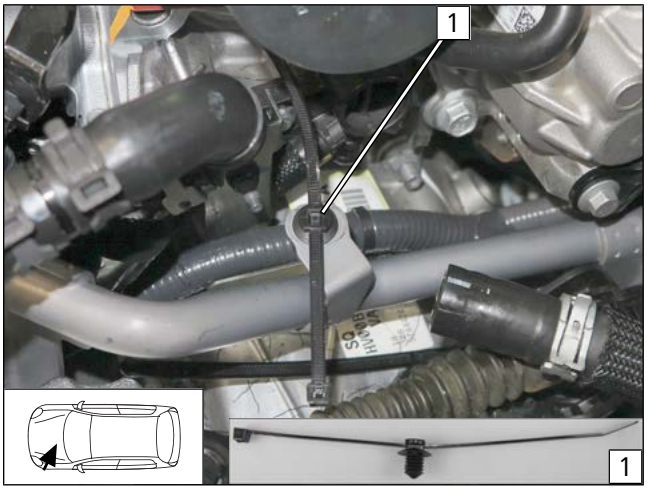


Fig. 73

1 Cable tie in original vehicle hole

Heat exchanger inlet connection

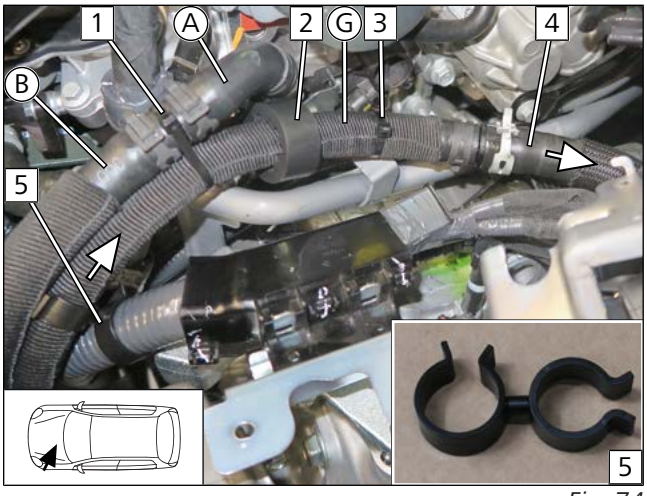


Fig. 74

1 Cable ties around hoses (B) and (G)

2 Align rubber isolator with hose (A)

3 Close premounted cable tie

4 Heat exchanger inlet connection with original vehicle spring clip

5 Hose bracket between hose (G) and original vehicle wiring harness

Checking distance

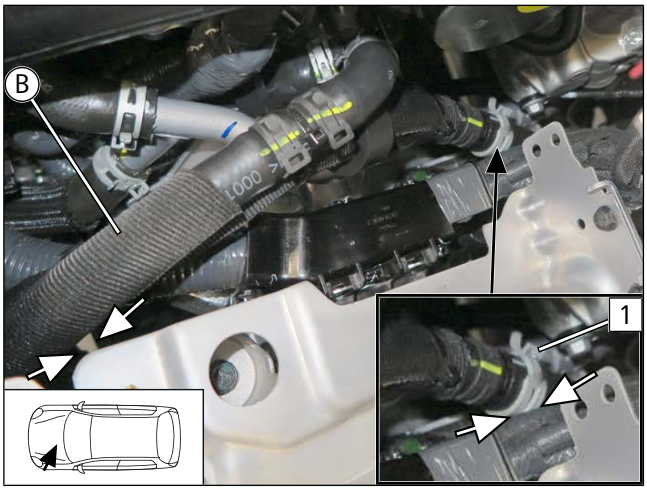


Fig. 75

Danger of damage to components

- ▶ Ensure sufficient distance between hose (B) and battery carrier, correct if necessary.
- ▶ Align spring clip fastener [1] as shown.

11 Combustion air

Aligning earth connection

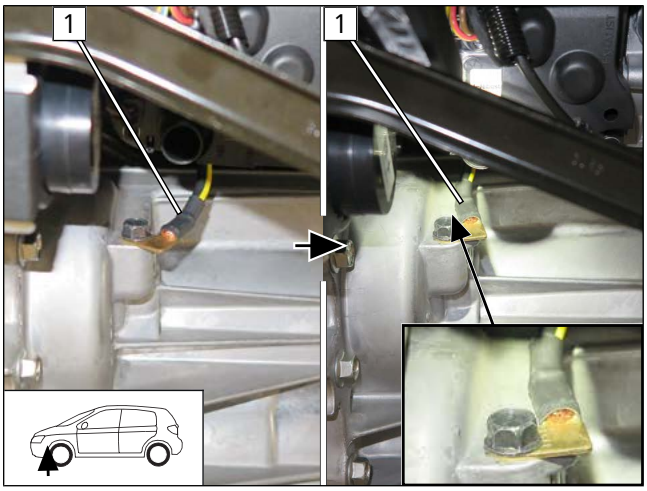


Fig. 76

▶ Realign original vehicle earth cable **1** as shown.

Preparing combustion air intake pipe

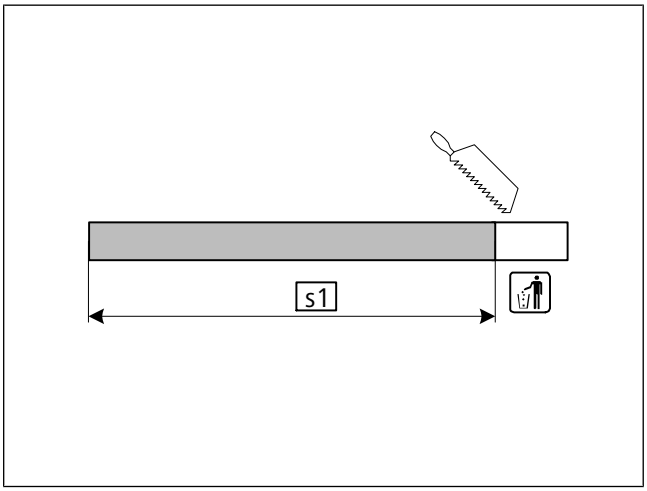


Fig. 77

s1 360

Premounting combustion air intake pipe **s1** and combustion air intake silencer

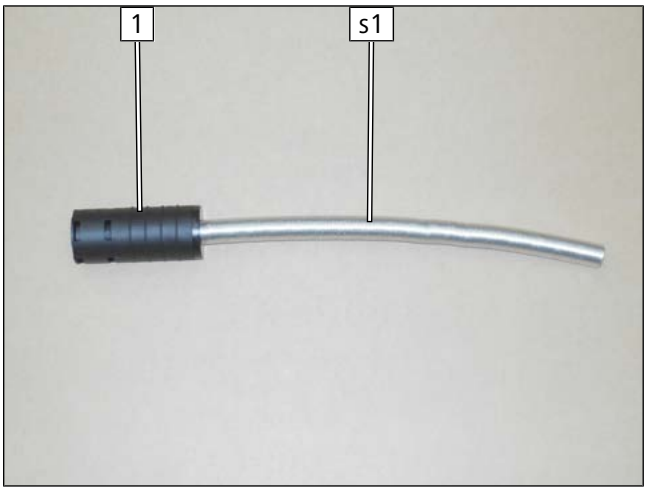


Fig. 78

1 Combustion air intake silencer

Preparing perforated bracket

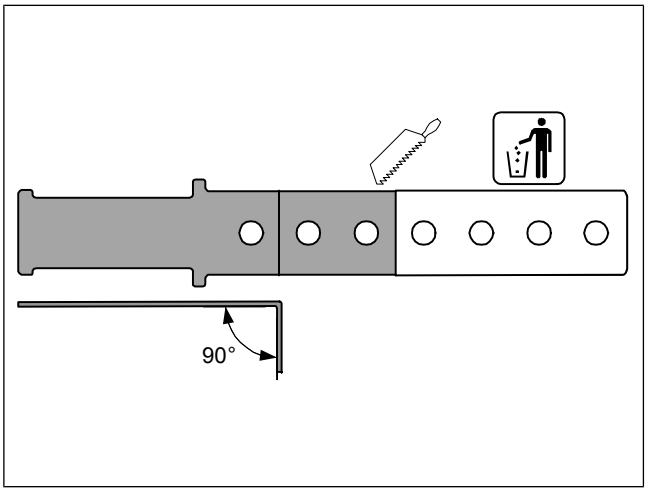


Fig. 79

Premounting perforated bracket

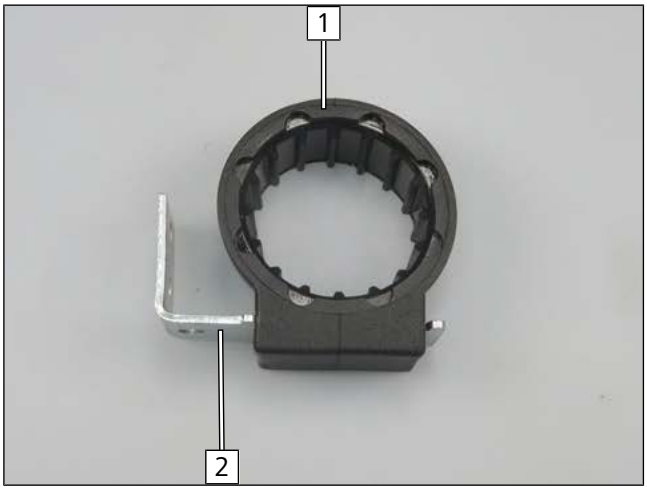


Fig. 80

1 Combustion air intake silencer mount
2 Perforated bracket

Mounting combustion air intake pipe **s1**

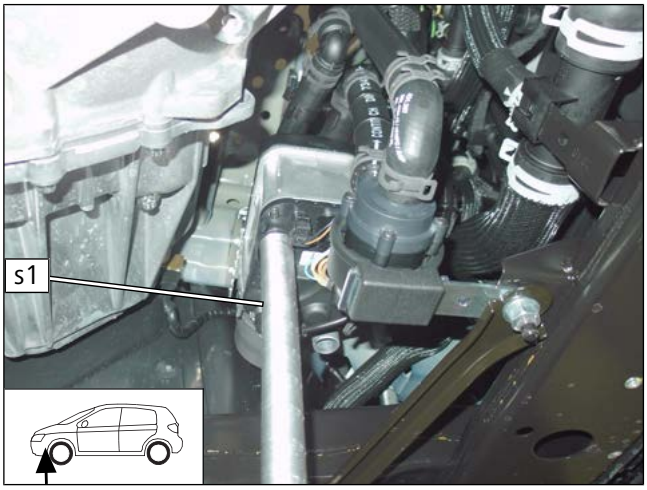


Fig. 81

Installing perforated bracket

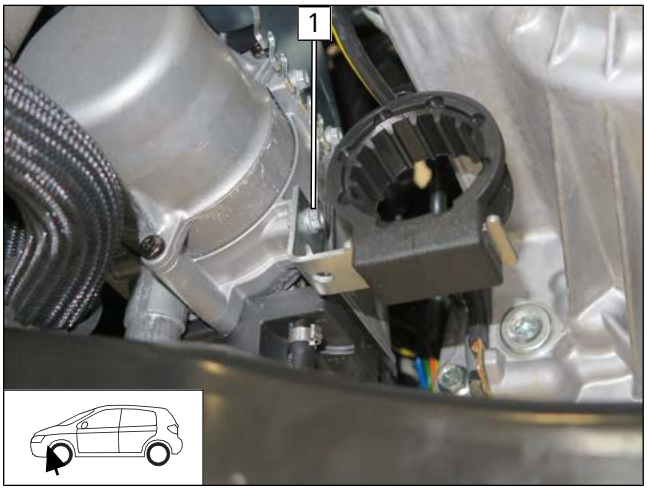


Fig. 82

1 5x13 self-tapping bolt, perforated bracket, hole in HG

Mounting combustion air intake silencer

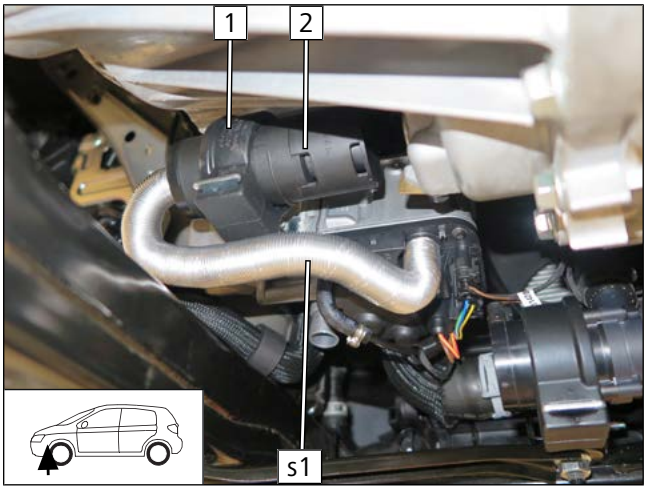


Fig. 83

Observe the installation instructions of the combustion air intake silencer.

- ▶ Mount combustion air intake silencer **2** in mount **1**.
- ▶ Align combustion air intake pipe **s1**.

12 Exhaust

12.1 Preparing installation location

Removing original vehicle coolant pump

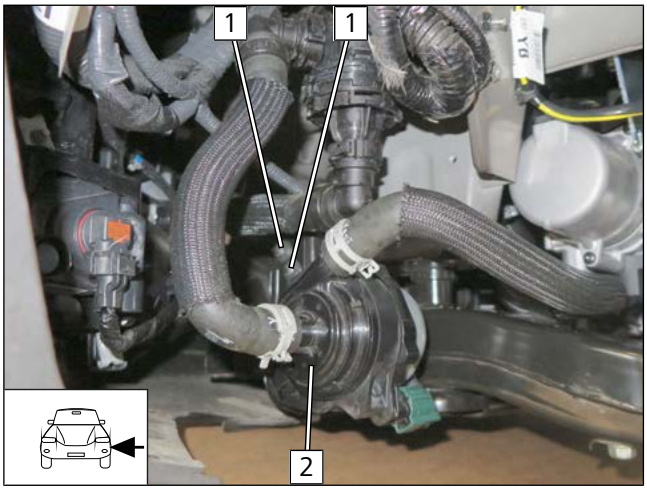


Fig. 84

▶ Remove original vehicle coolant pump [2] with bracket at pos. [1]. Discard nuts.

Mounting spacer nuts

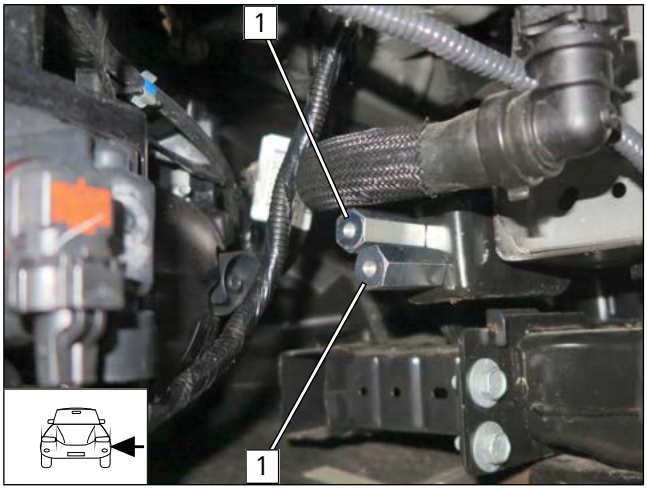


Fig. 85

[1] M6x30 spacer nut on original vehicle stud bolt

Fitting edge protection

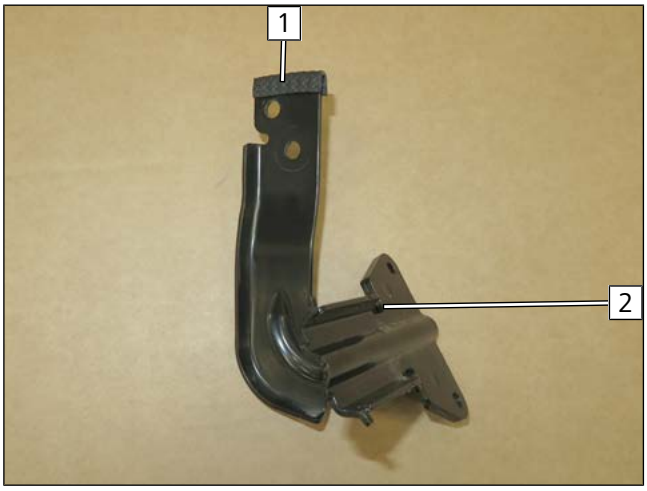


Fig. 86

[1] 30 long, narrow edge protection
[2] Bracket of original vehicle coolant pump

Mounting original vehicle coolant pump bracket

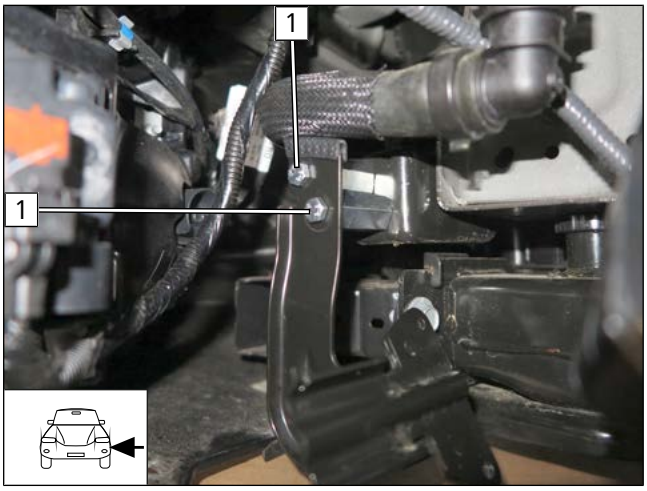


Fig. 87

1 M6x16 bolt, spring lock washer, bracket, spacer nut

Preparing perforated bracket

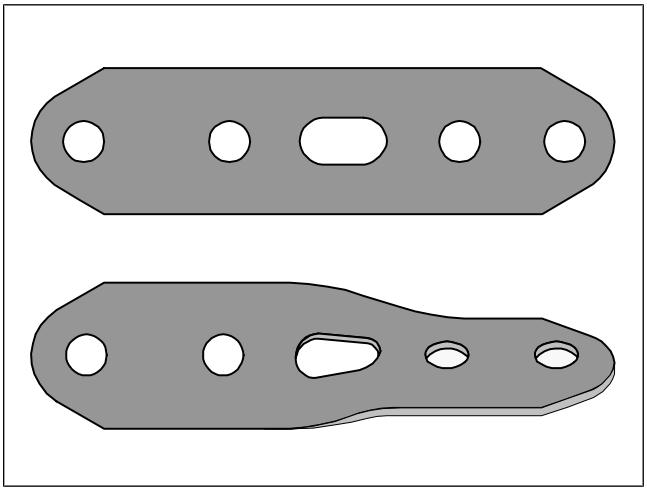


Fig. 88

▶ Twist perforated bracket by approx. 45°.

Mounting original vehicle coolant pump, fastening hose

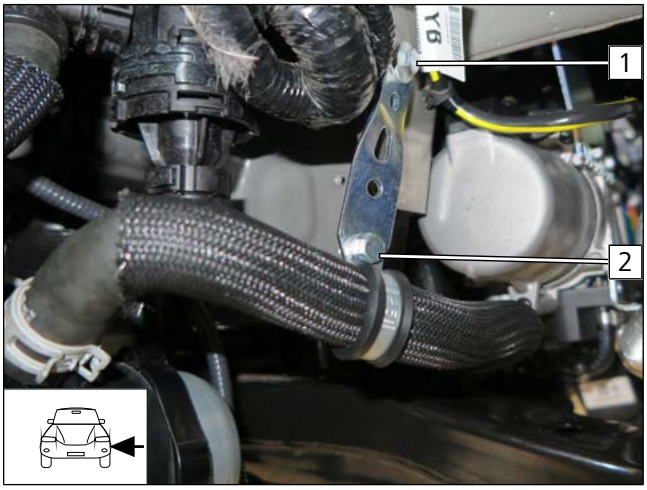


Fig. 89

1 M6x20 bolt, spring lock washer, large diameter washer, perforated bracket, original vehicle threaded hole

2 M6x20 bolt, Ø25 rubber-coated p-clamp, perforated bracket, flanged nut

Aligning original vehicle rubber isolator

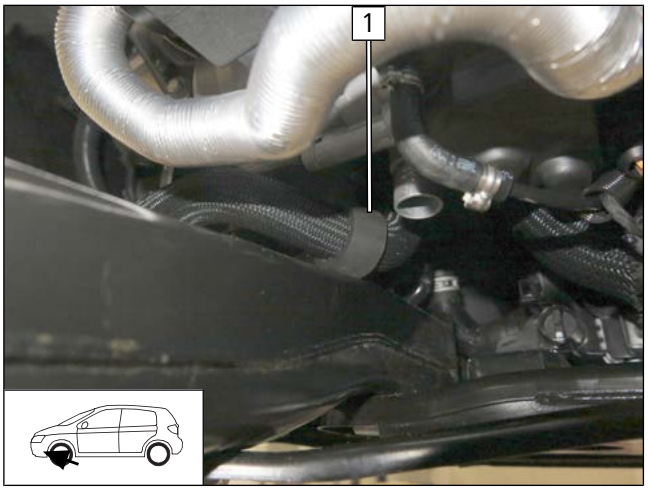


Fig. 90

1 Original vehicle rubber isolator

Preparing wheel-well inner panel

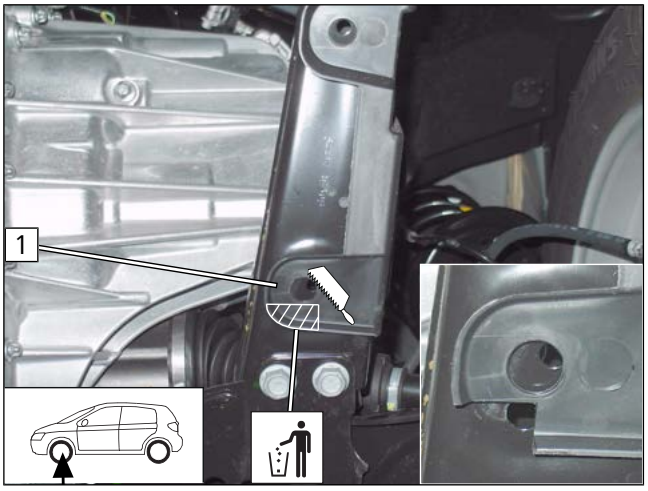


Fig. 91

▶ Cut tab of wheel-well inner panel **1** as shown.

Inserting rivet nut

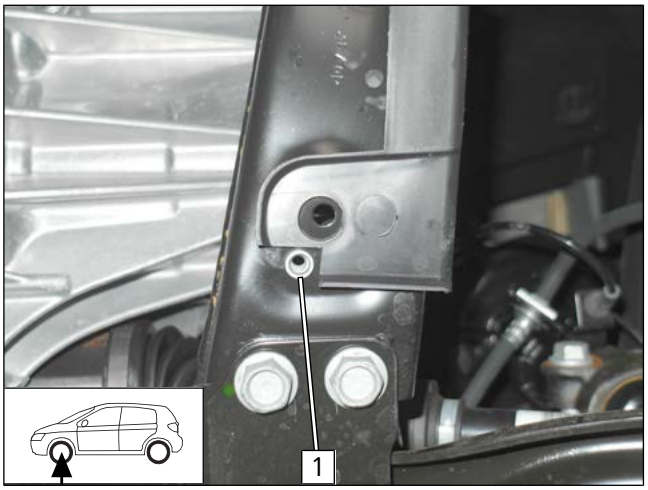


Fig. 92

1 Existing hole, rivet nut

12.2 Mounting exhaust pipe

Cutting exhaust pipe to length

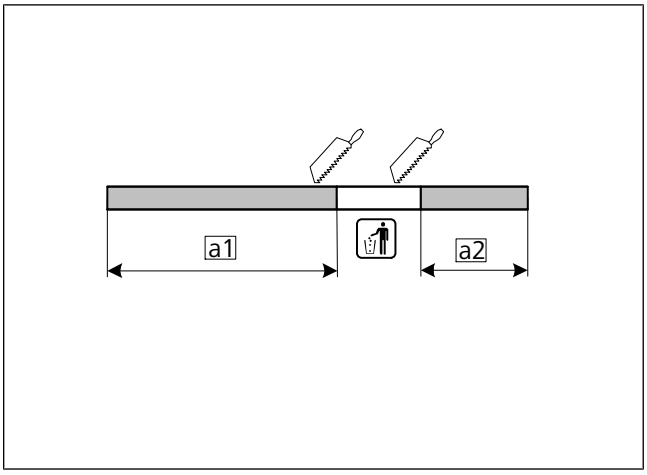


Fig. 93

a1 300
a2 110

Preparing perforated bracket

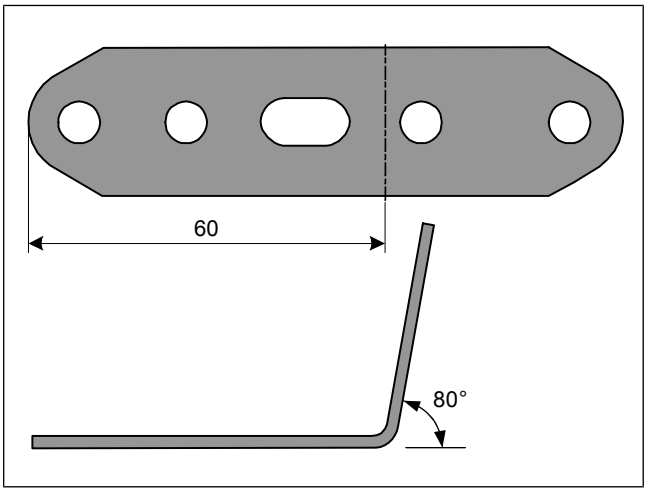


Fig. 94

Premounting exhaust silencer

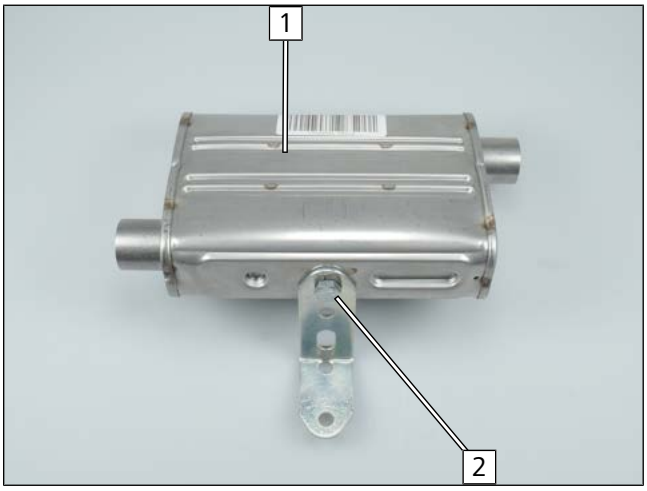


Fig. 95

1 Exhaust silencer
2 M6x16 bolt, spring lock washer, prepared perforated bracket

Premounting exhaust silencer

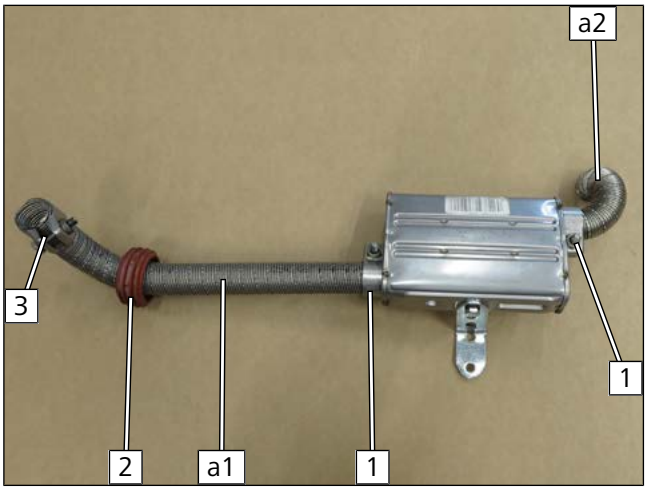


Fig. 96

1 Hose clamp
2 Spacer bracket
3 Hose clamp, mounted loosely

Mounting exhaust silencer

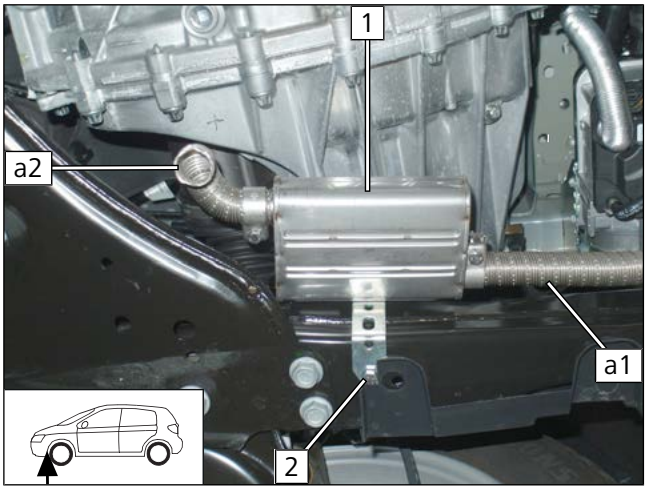


Fig. 97

Ensure sufficient distance between transmission and exhaust silencer, correct if necessary.

>10

1 Premounted exhaust silencer
2 M6x20 bolt, spring lock washer, premounted exhaust silencer, rivet nut

Mounting exhaust pipe **a1**

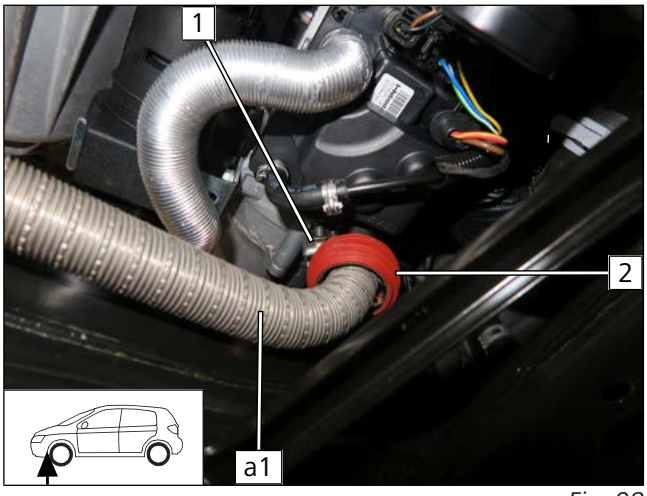


Fig. 98

1 Tighten hose clamp
2 Align spacer bracket with coolant hose

12.3 Mounting exhaust end fastener

Removing insulation

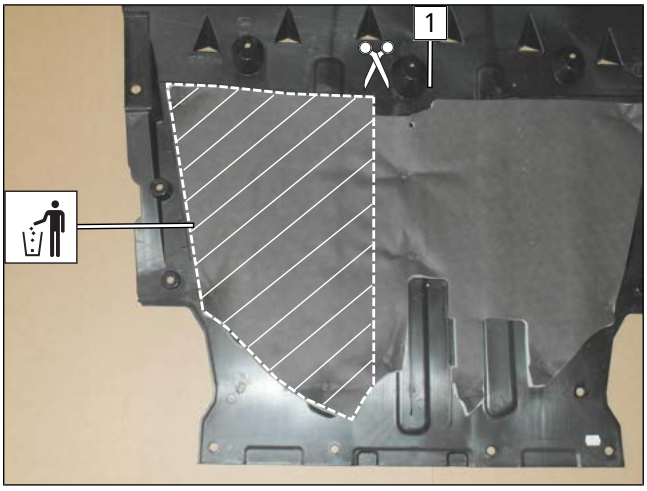


Fig. 99

1 Underride protection

Work step E1

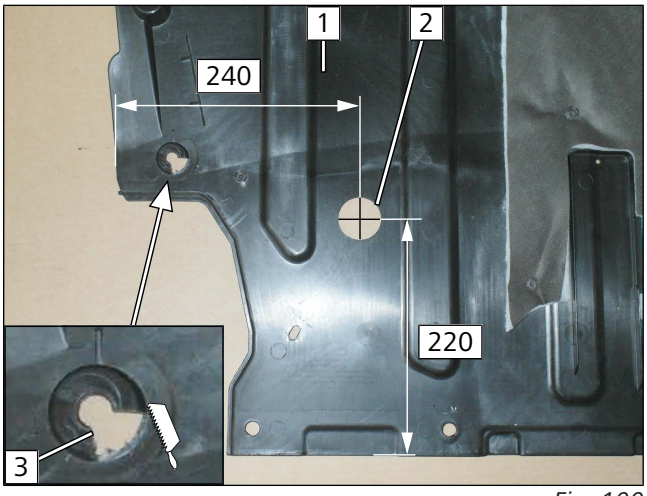


Fig. 100

Observe the EFIX installation instructions.

▶ Cut underride protection 1 at position 3 as shown (will be needed for the fitting of the exhaust silencer).

2 Hole

Work step E3

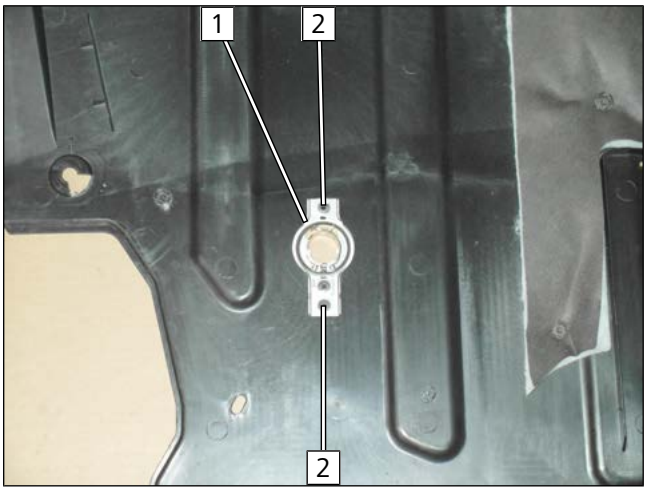


Fig. 101

1 EFIX

2 Hole pattern

Work step E4

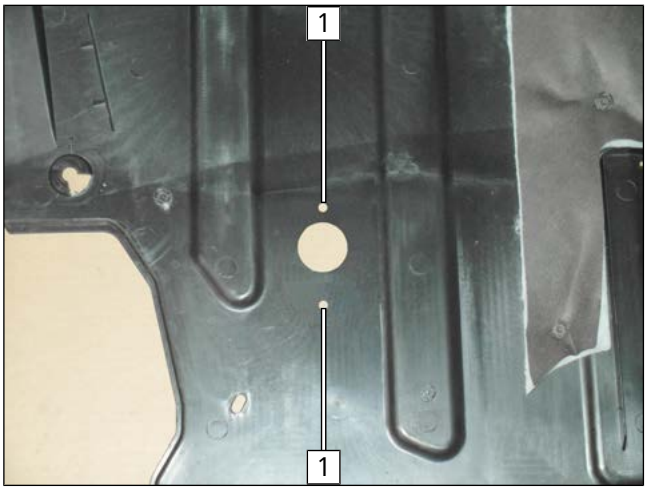


Fig. 102

1 Hole

Work step E5

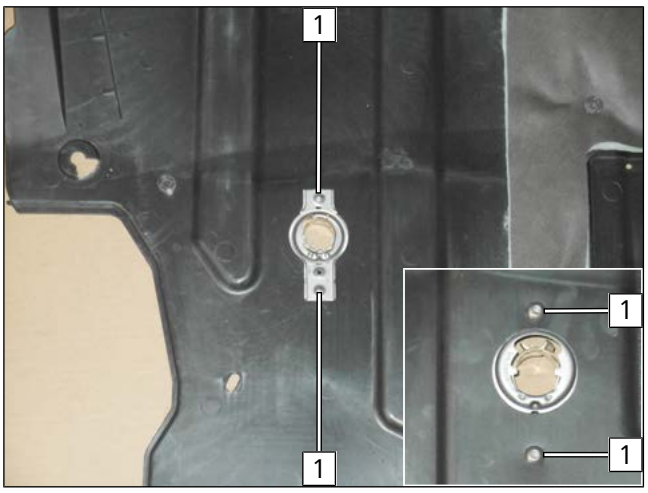


Fig. 103

1 5x13 self-tapping screw

13 Final work in engine compartment

Mounting underride protection

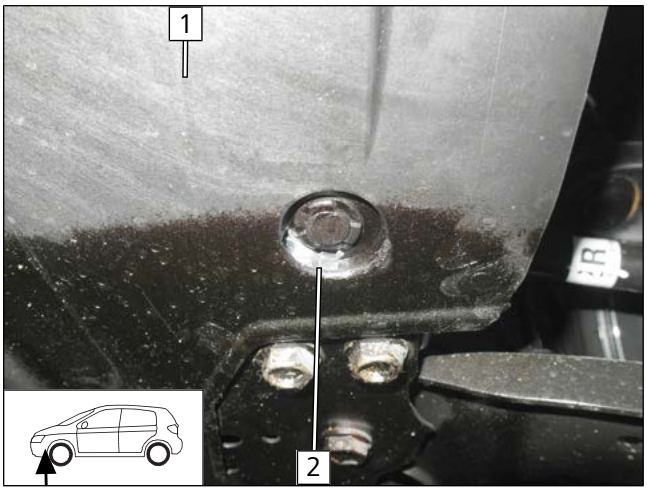


Fig. 104

Ensure sufficient distance from neighbouring components, correct if necessary.

▶ Ensure freedom of movement of the recess in underride protection **1** for the M6x20 bolt and the perforated bracket at position **2**, adapt if necessary.

Work steps E6 - E8

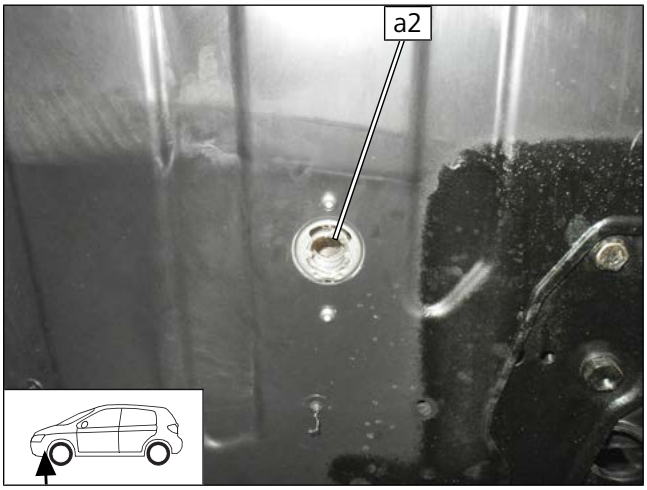


Fig. 105

Observe the EFIX installation instructions.

Danger of damage to components

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

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 Nissan Qashqai with AC / AAC

'**Webasto Comfort**' A/C control installation documentation for Nissan Qashqai with AAC

15 Electrical system of control elements

15.1 MCC option

Mounting MCC

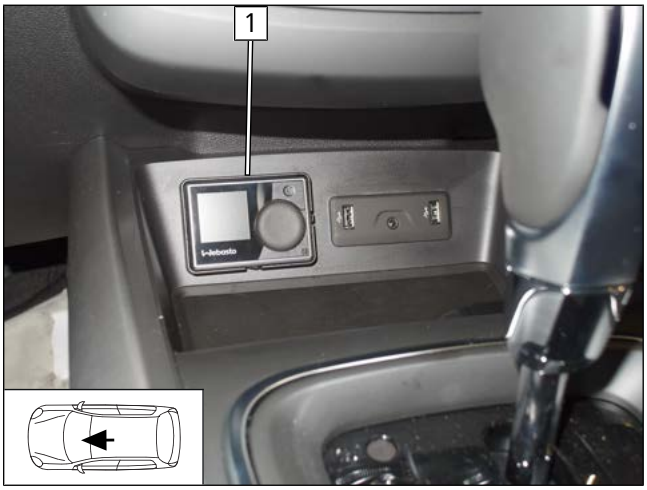


Fig. 106

Observe the MultiControl CAR installation documentation.

1 MCC installation frame

15.2 Remote option (Telestart)

Preparing receiver bracket

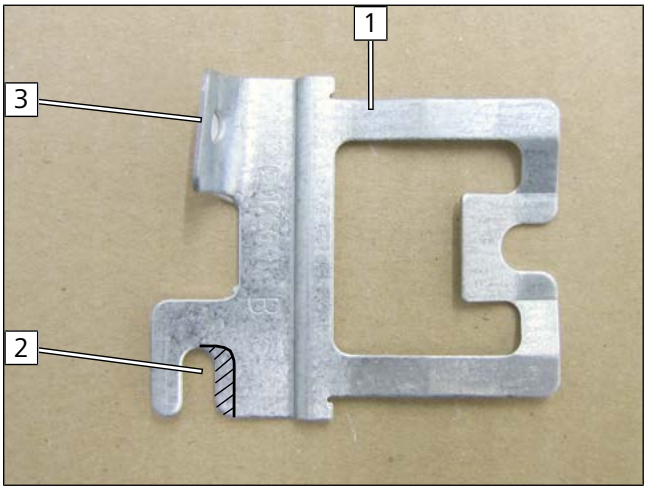


Fig. 107

1 Telestart receiver bracket
2 Enlarge slot to 6mm as shown
3 Bend tab by 90°

Mounting receiver

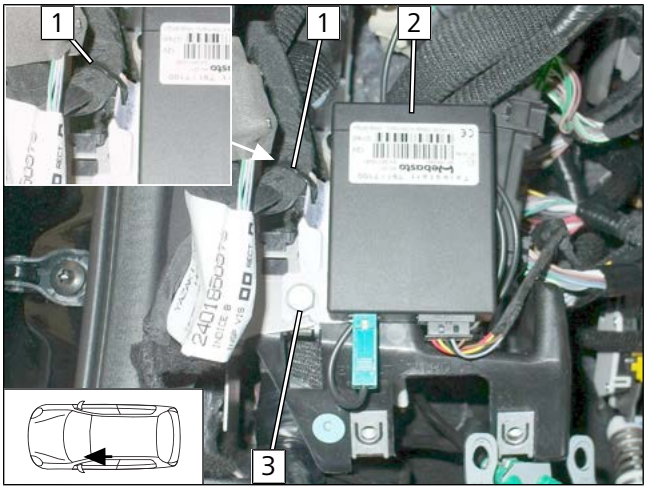


Fig. 108

Observe the Telestart installation documentation.

1 Cable tie through tab of receiver bracket
2 Receiver
3 Original vehicle bolt, Telestart receiver bracket, original vehicle thread

Mounting aerial

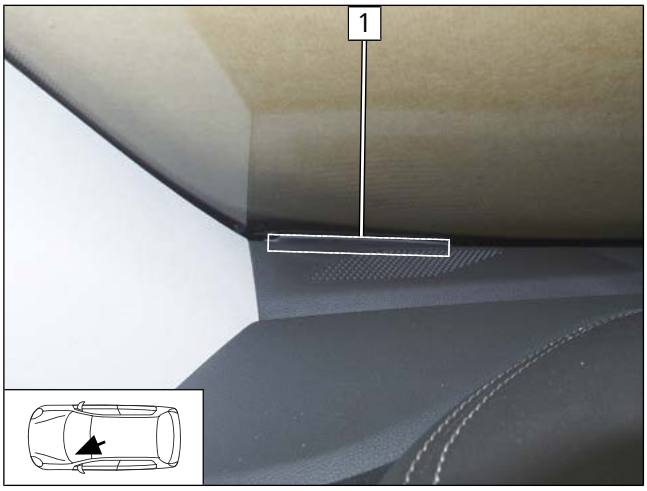


Fig. 109

1 Aerial

Mounting temperature sensor, only in case of T100 HTM

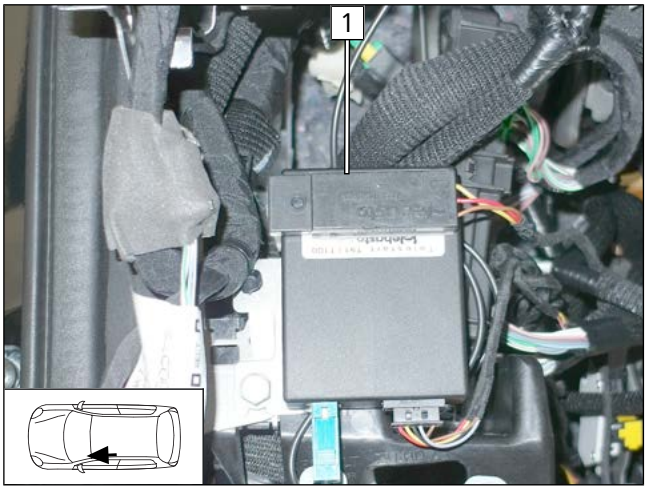


Fig. 110

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

15.3 ThermoCall option

Mounting receiver

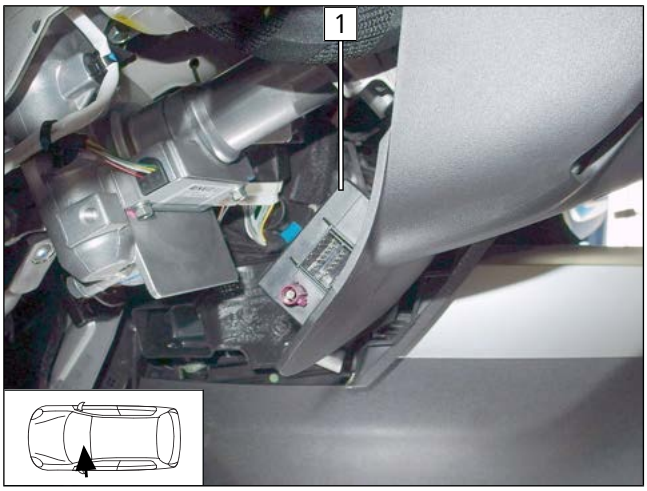


Fig. 111

Observe the ThermoCall installation documentation.

▶ Fasten receiver 1 using double-sided adhesive tape.

Mounting aerial (optional)

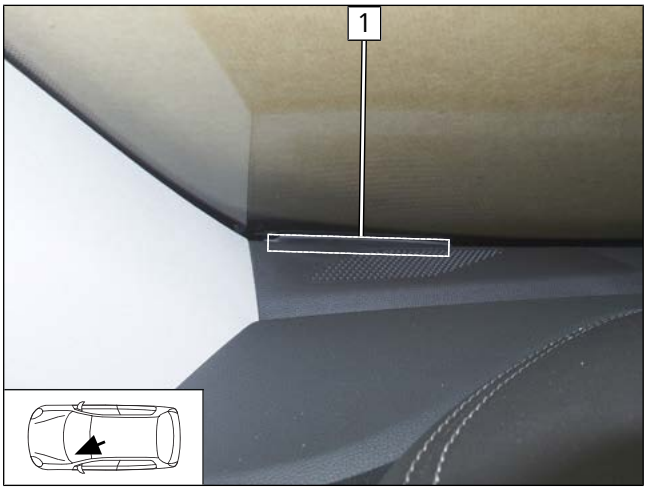


Fig. 112

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

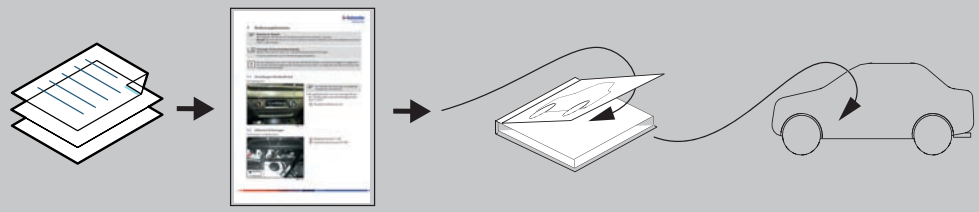
▶ Initial start-up and function check

▶ Affix 'Switch off parking heater before refueling' caution label in area of filler neck

Vehicle event log after parking heating mode

✓ Components of the original vehicle air conditioning system are activated during parking heating mode. Other vehicle components remain inactive, which in some circumstances may be interpreted as an error and can be filed as such in the event log. An increased power consumption (quiescent current) may also be registered for some vehicles.

▶ If an incorrect installation can be excluded, these entries are exclusively related to the parking heating mode situation and have no effect on the vehicle functions in driving mode.



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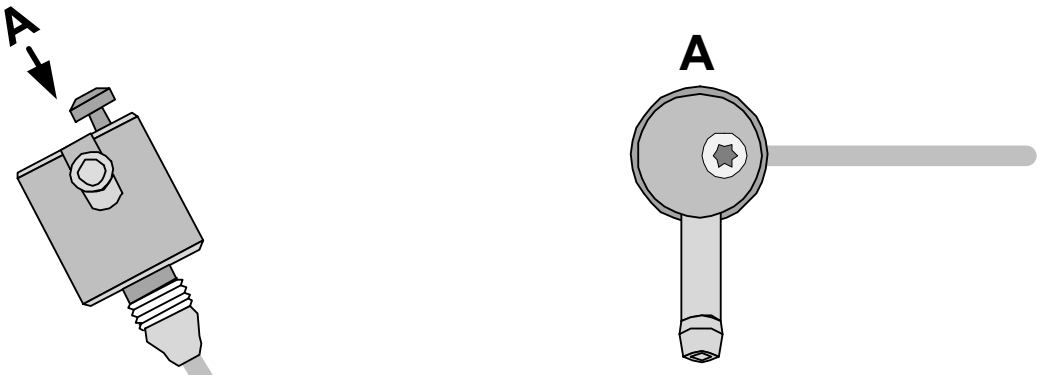
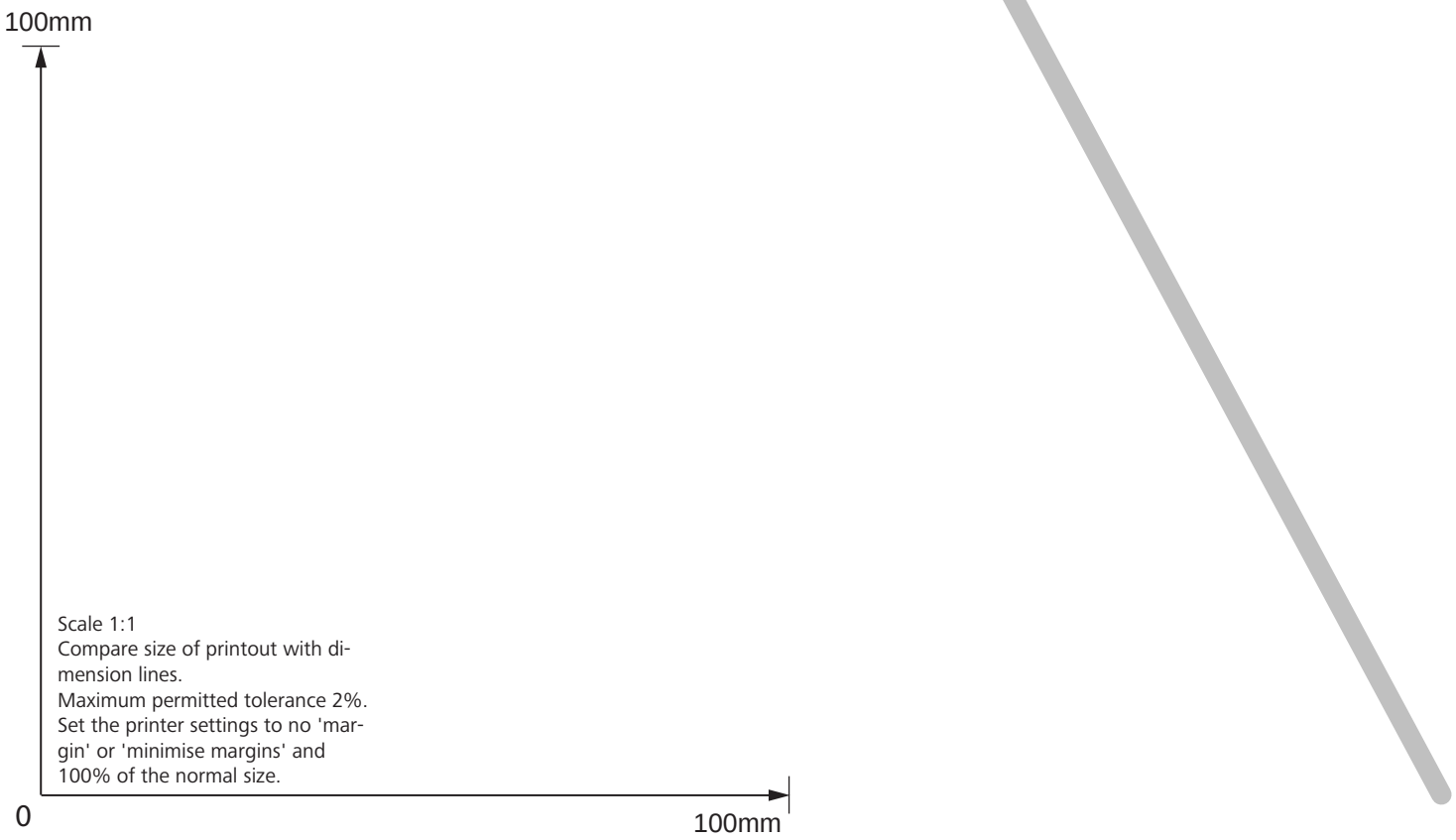
Technical Extranet: https://dealers.webasto.com

CE

WWW.WEBASTO.COM

17 FuelFix template





Scale 1:1
Compare size of printout with dimension lines.
Maximum permitted tolerance 2%.
Set the printer settings to no 'margin' or 'minimise margins' and 100% of the normal size.