EN

K

Installation Documentation

for water heater Thermo Top Evo

'Island' coolant circuit without engine preheating

Jeep Compass

Left-hand drive vehicle

Manufacturer	Model	Type	Model year	EG-BE-No. / ABE
Jeep	Compass	MP	2020	e3* 2007/46* 0508*…

Motorisation	Fuel	Emission standard	Transmission type	Output [kW]	Displace-ment [cm³]	Engine code
1.3 T-GDI	Petrol	Euro6;WLTP;AP;…	6-speed DCT	110	1332	55282328

Validity	Equipment variants	Model
		Compass
Verified equipment variants	2 zone automatic air-conditioning	x
	Xenon main headlights	x
	LED daytime running lights	x
	Halogen front fog lights	x
	Start button	x
	FWD	x

Total installation time	Note
9.3 hours	

Note
- The model year can be identified by the Vehicle identification number (VIN): ZACNJDEWO**L**PRxxxxx (L = model year 2020)
- This installation documentation describes only the installation of a parking heater for vehicles with model year 2020.

Contents

1 List of abbreviations

DP	Fuel pump
EFIX	Exhaust end fastener
FWD	Front wheel drive
HG	Heater
MY	Model year
SH2	Engine compartment fuse holder for F1/F2
TE	Tank extracting device
UP	Coolant pump
Veh.	Vehicle
X10	Female plug for control element

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.

2.2 Components used

Designation	Order number
Basic delivery scope of Thermo Top Evo 4 (see 'Notes on installation')	In accordance with price list
Installation kit for Jeep Compass MY 2020 petrol	1328277B
Additional 'Webasto Comfort' A/C control kit for Jeep	1325260_
In case of Telestart, control element, as well as indicator lamp in consultation with end customer	In accordance with price list

2.3 Additional components from manufacturer

Designation	Jeep order number
Gasket for 1.3TGDI tank fitting	51807863

2.4 Notes on installation, in coordination with the end customer

▶ Arrange for the vehicle to be delivered with the tank only about ¼ full.

▶ The installation location of the following elements should be chosen in coordination with the end customer:

– the push button in case of the Telestart and/or ThermoCall and/or ThermoConnect options

– the MultiControl CAR option

The heater is integrated into the coolant circuit as an 'island' and heats up the vehicle passenger compartment. There is no engine pre-heating.

2.5 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.

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

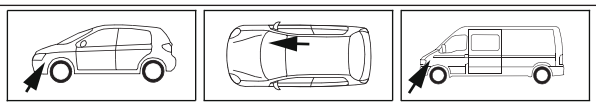
3.4.3 Work step identification marks

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 components as well as coolant hose sections

4 Technical Information

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

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

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

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

5 Preparations

5.1 Vehicle preparation

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

Vehicle area	Components to be removed	Other applicable documents
General	▶ Open the fuel tank cap ▶ Ventilate the fuel tank ▶ Close the fuel tank cap again ▶ Depressurise the cooling system	
Engine compartment and body	▶ Drain off the coolant ▶ Disconnect the battery and remove it with the carrier ▶ Engine design cover ▶ Complete air filter box ▶ Windscreen wiper ▶ Water drain chamber cover ▶ Front wheel on the driver's side ▶ Wheel-well inner panel on the driver's side ▶ Wheel-well inner panel on the front passenger's side ▶ Bumper trim	
Passenger compartment	▶ Instrument panel side trim on the driver's side ▶ Lower instrument panel trim on the driver's side ▶ A-pillar trim on the driver's side ▶ Centre tunnel side trim on the driver's and front passenger's side ▶ Lower air duct on the driver's side ▶ Accelerator pedal ▶ Rear bench seat ▶ Open the tank fitting service lid	

DANGER

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

Carry out the following work only during the corresponding installation sequence:

Vehicle body	▶ Tank fitting	

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

Installation overview for 110kW

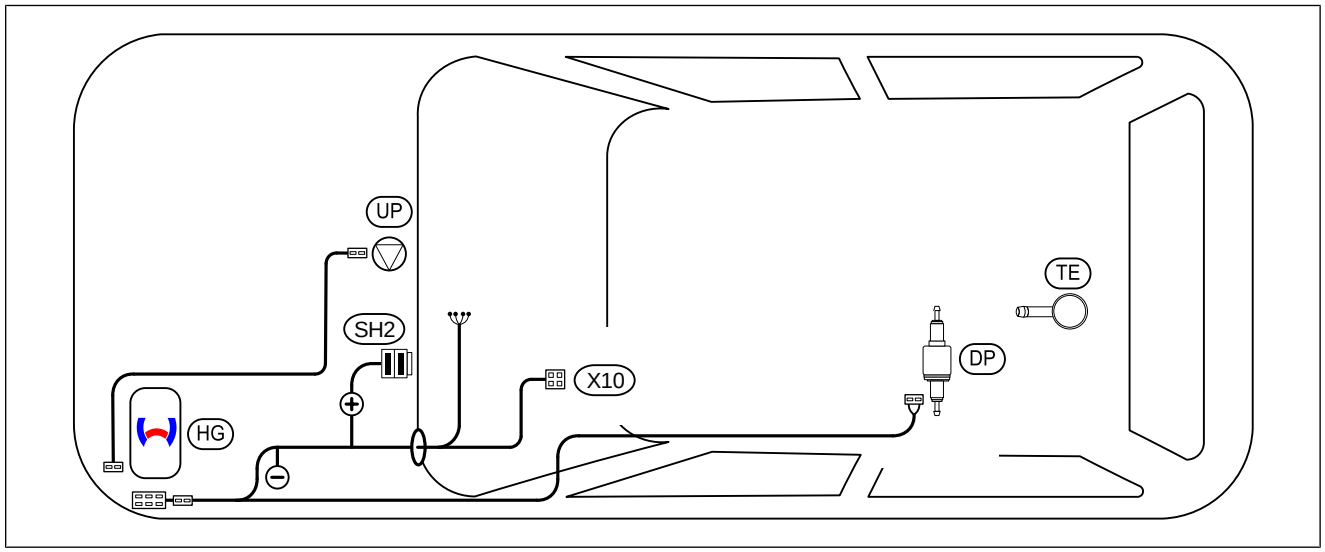


Fig. 1

Legend to installation overview

Abbreviation	Component
DP	Fuel pump
HG	Heater
SH2	Engine compartment fuse holder for F1/F2
UP	Coolant pump
TE	Tank extracting device
X10	Female plug for control element

Heater installation location

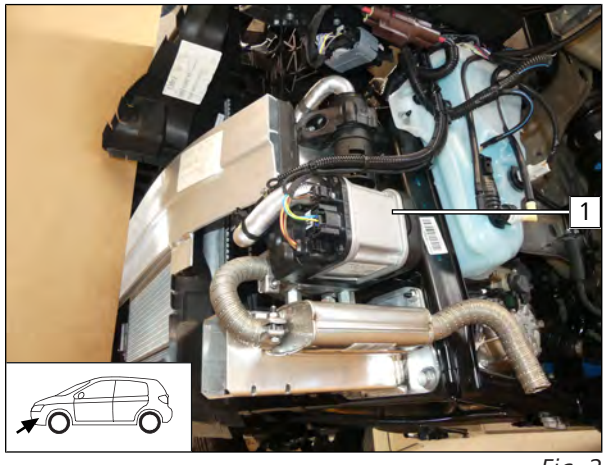


Fig. 2

1 Heater

7 Electrical system of engine compartment

Removing clip

Fig. 3

1 Original vehicle clip

Preparing perforated bracket

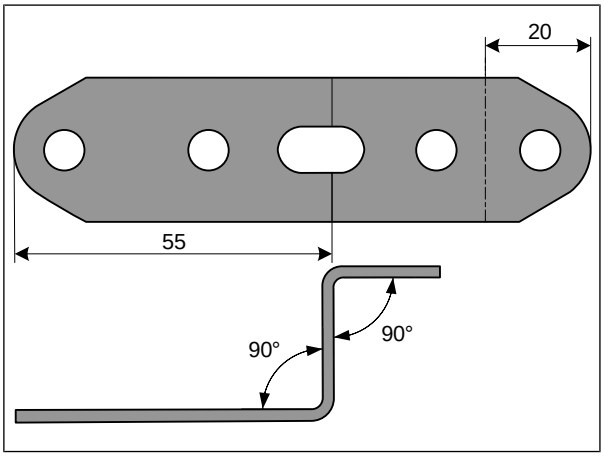


Fig. 4

Installing SH2

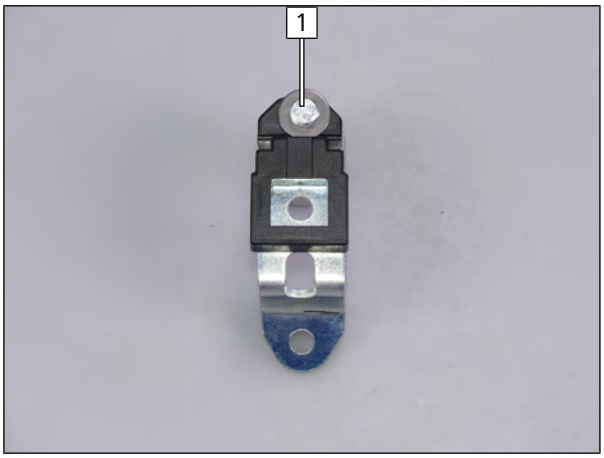


Fig. 5

1 M5x16 bolt, large diameter washer, retaining plate, perforated bracket, large diameter washer, nut

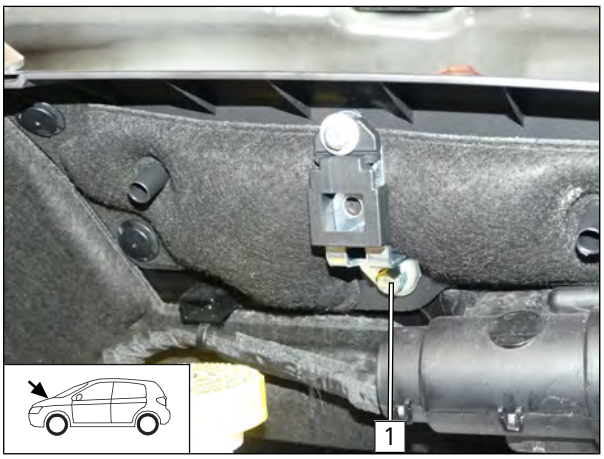


Fig. 6

1 M6x20 bolt, premounted perforated bracket, original vehicle hole, flanged nut

Routing wiring harnesses

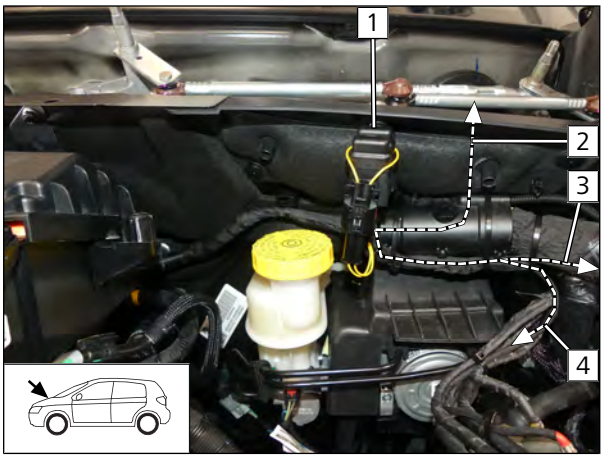


Fig. 7

1 SH2 with fuse F1 and F2

2 Passenger compartment wiring harnesses, control element and earth wire

3 Heater wiring harness

4 Positive wire

Passenger compartment wiring harness pass through

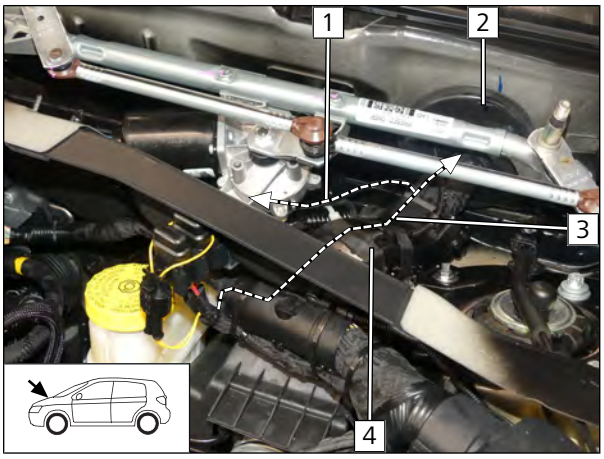


Fig. 8

To prevent water seeping into the passenger compartment, the wiring harness must be routed upwards to the protective rubber plug and this plug must then be sealed with a suitable sealing compound.

1 Earth wire

2 Protective rubber plug

3 Passenger compartment and control element wiring harnesses

4 Cable duct

Mounting earth wire

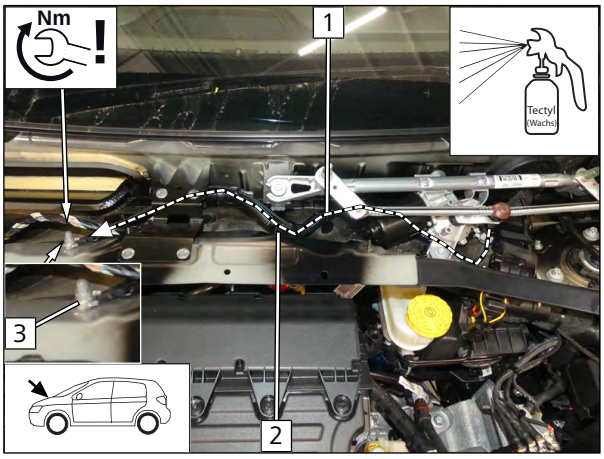


Fig. 9

DANGER

Observe tightening torque

1 Earth wire
2 Original vehicle wiring harness
3 Original vehicle earth support point

Mounting positive wire

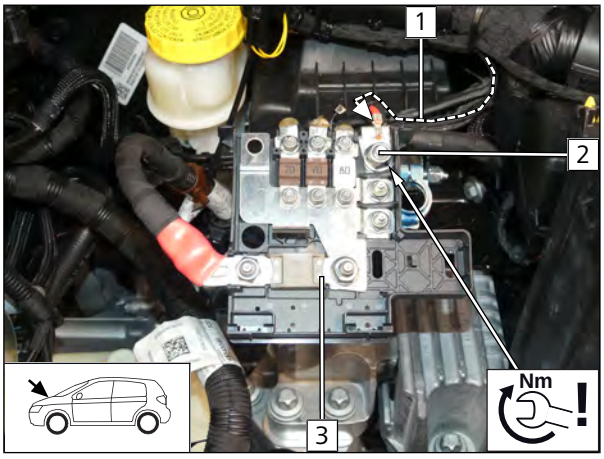


Fig. 10

DANGER

Observe tightening torque

1 Positive wire
2 Original vehicle positive support point
3 Positive battery distributor

HG wiring harness routing

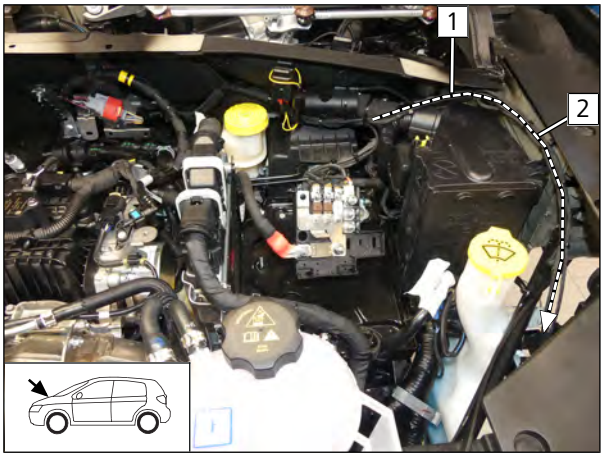


Fig. 11

1 Original vehicle wiring harness
2 HG wiring harness

8 Mechanical system

8.1 Preparing installation location

Fitting edge protection

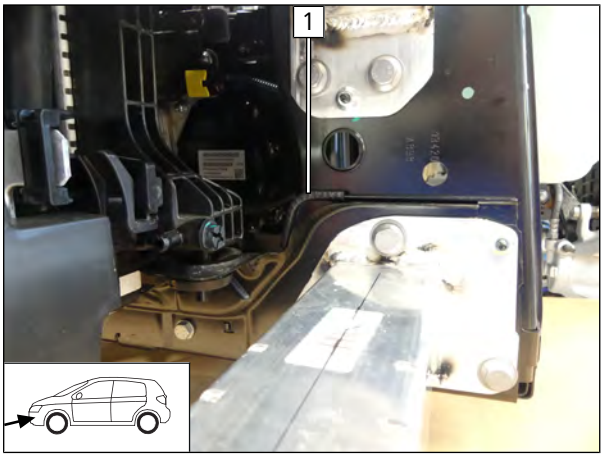


Fig. 12

1 70 long, narrow edge protection

Drilling holes for mounting heater

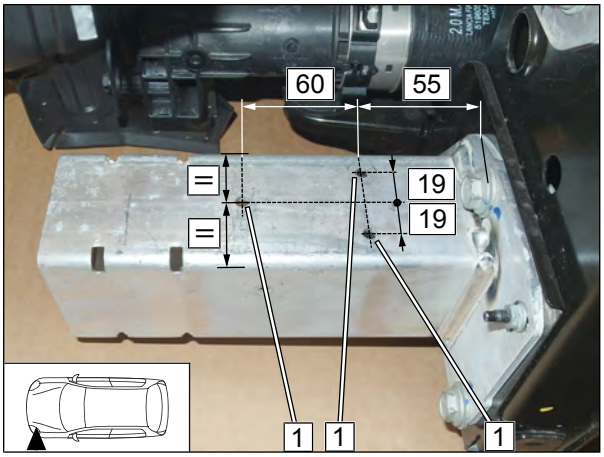


Fig. 13

1 Ø6.5 hole

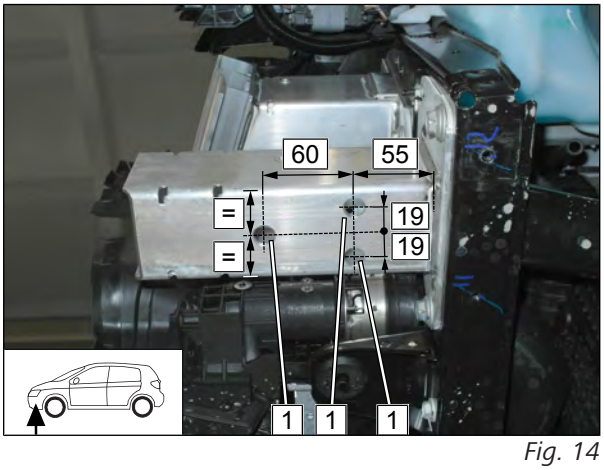


Fig. 14

1 Ø16 hole

Drilling hole for mounting exhaust silencer

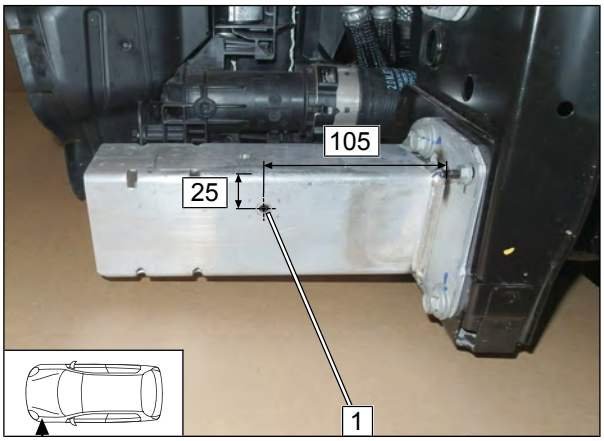


Fig. 15

[1] 7mm dia. hole

Drilling hole for combustion air intake silencer installation

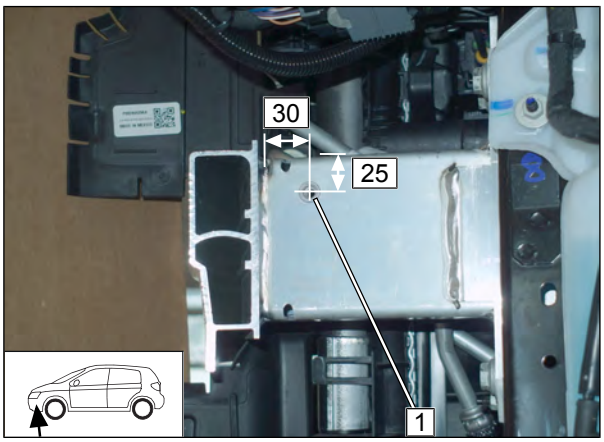


Fig. 16

[1] Insert rivet nut into 9mm dia. hole

8.2 Premounting heater

Mounting, aligning and fastening with 7Nm water connection piece with sealing ring and retaining plate

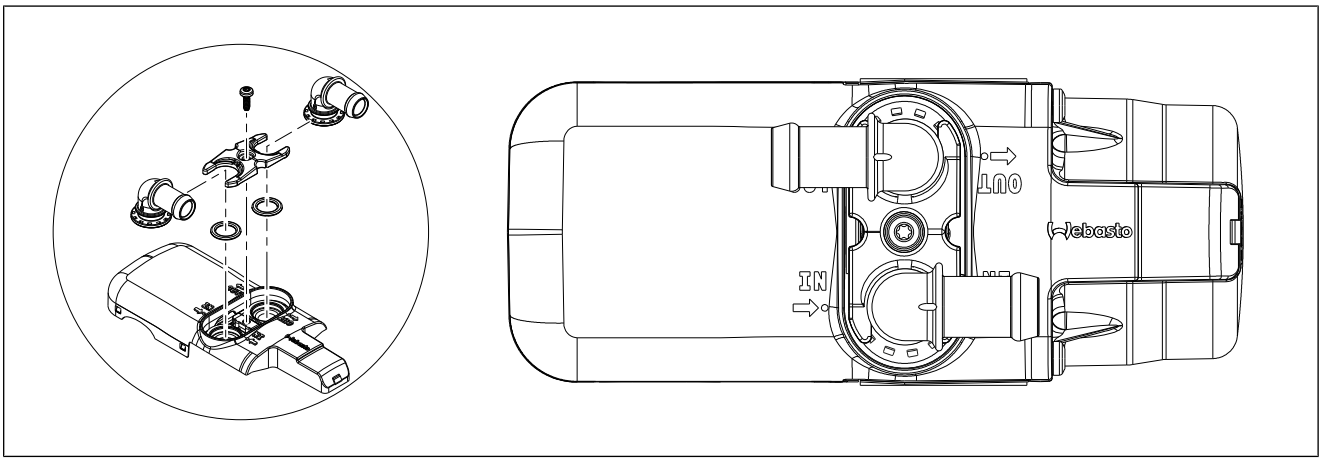


Fig. 17

Mounting M6/5x15 self-tapping stud bolt

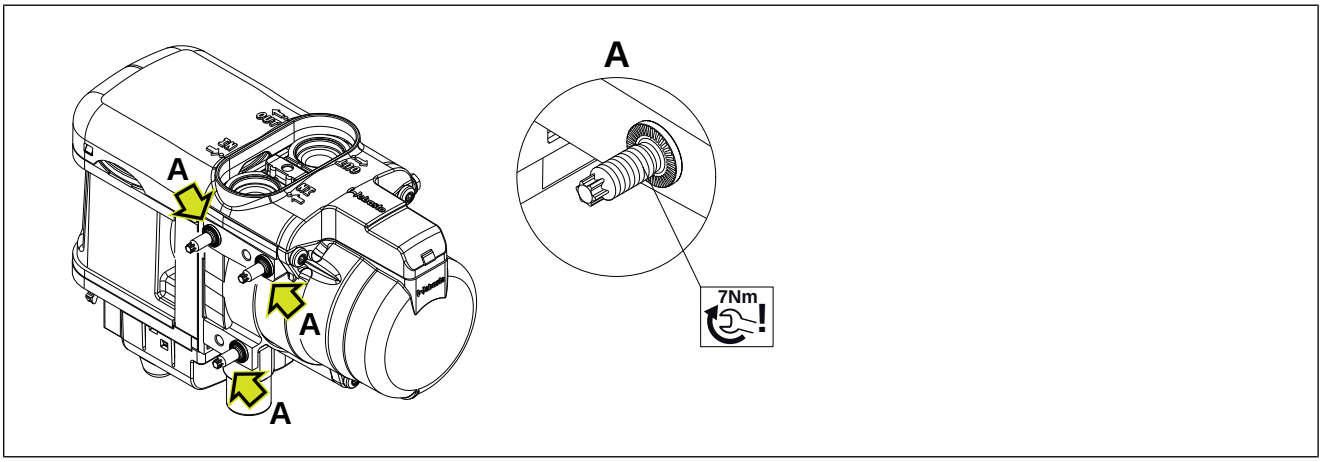


Fig. 18

Mounting spacer nuts

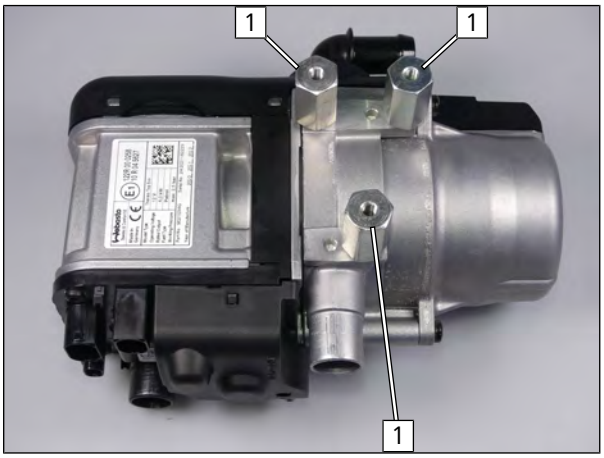


Fig. 19

Mounting fuel hose and clip-type cable tie

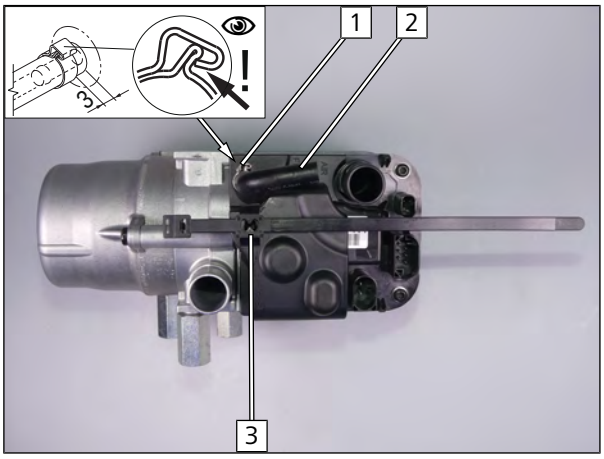


Fig. 20

1 Ø10 clamp
2 90° moulded hose
3 Clip-type cable tie, existing hole

Cutting combustion air intake pipe to length

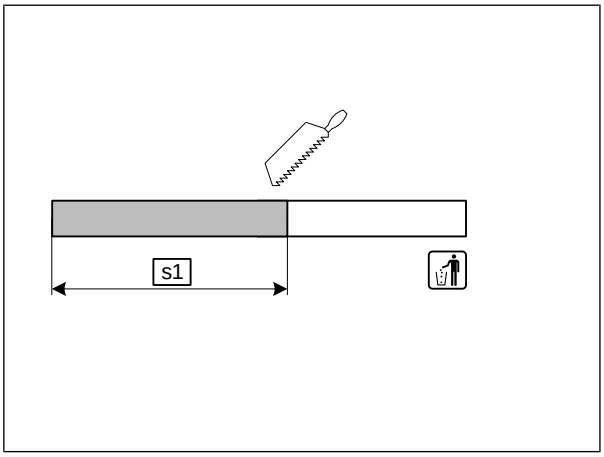


Fig. 21

s1 630

Mounting combustion air intake pipe

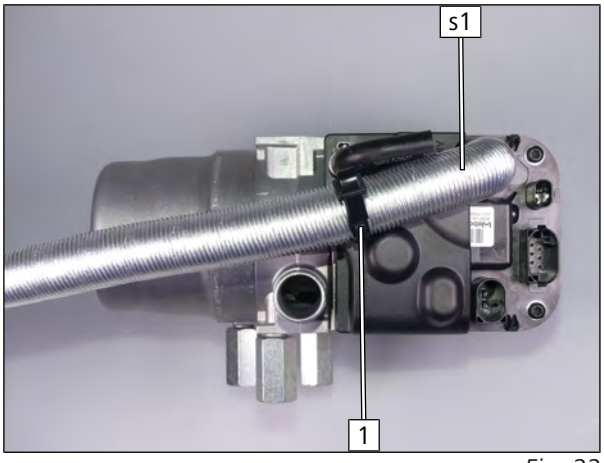


Fig. 22

Observe the installation instructions of the combustion air intake silencer.

1 Tighten clip-type cable tie

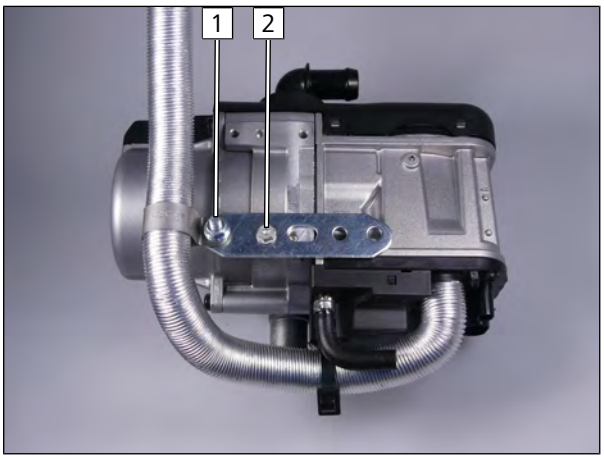


Fig. 23

1 M6x20 bolt, perforated bracket, Ø25 clamp, M6 flanged nut

2 5x13 self-tapping bolt, perforated bracket

8.3 Premounting heater

Cutting hoses to length

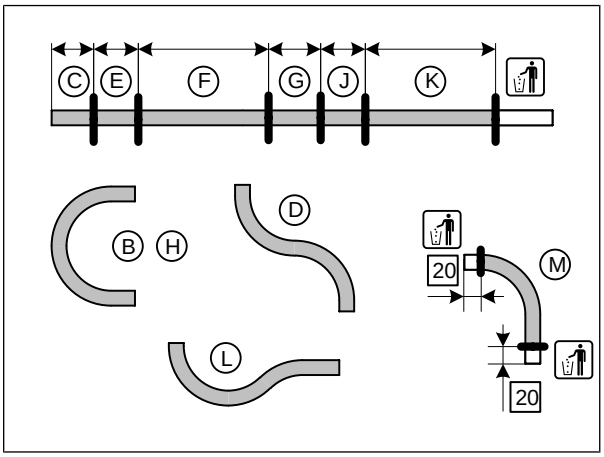


Fig. 24

B, H	180° moulded hose
C	60
D	2x90° moulded hose
E	60
F	690
G	100
J	160
K	700
L	135° moulded hose
M	90° moulded hose

Mounting fabric heat shrink tubing

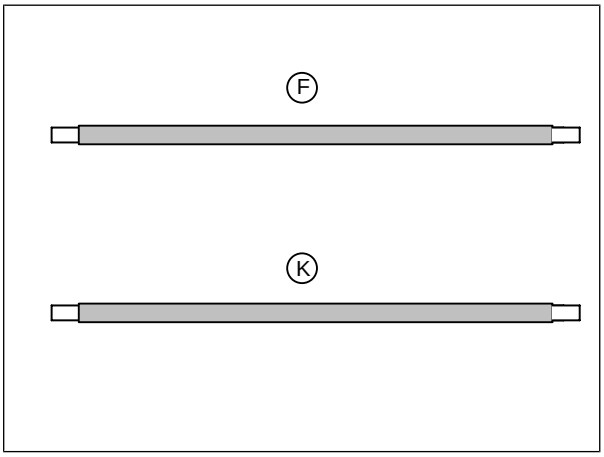


Fig. 25

▶ 1. Slide on and cut to length

▶ 2. Shrink, use at most 230 °C

Mounting hoses Ⓖ, Ⓗ and Ⓙ

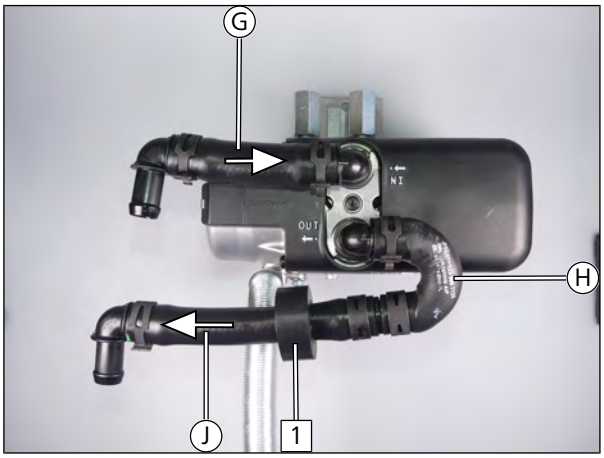


Fig. 26

1 Ø22 rubber isolator

8.4 Preparing battery carrier

Removing original vehicle control unit

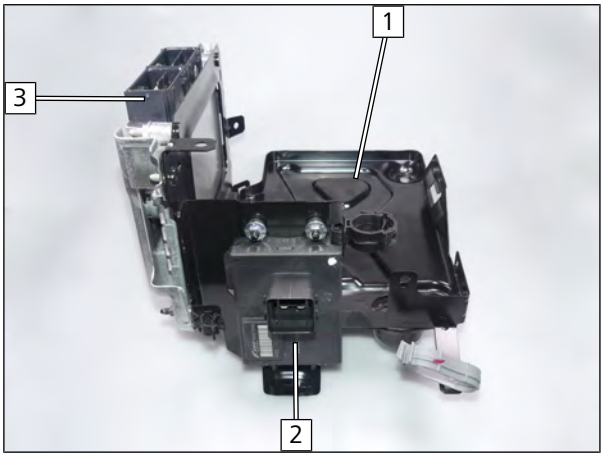


Fig. 27

1 Battery carrier
2 Control unit (if present)
3 Engine control unit

Adapting battery carrier

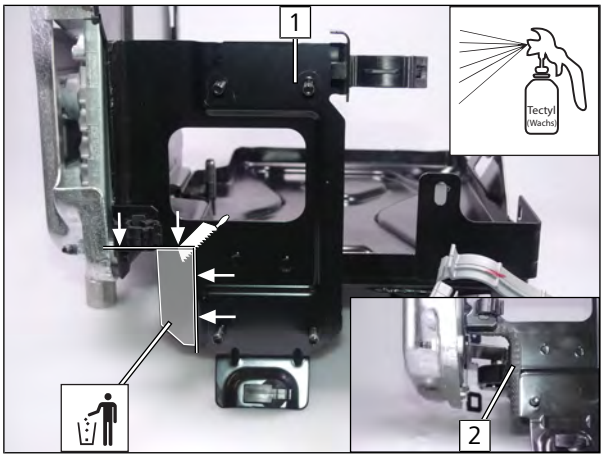


Fig. 28

▶ Cut out marked area of battery carrier **1** as shown.

2 Narrow edge protection

Removing clip

Fig. 29

1 Clip (will be reused)

Bending tab of original vehicle clip

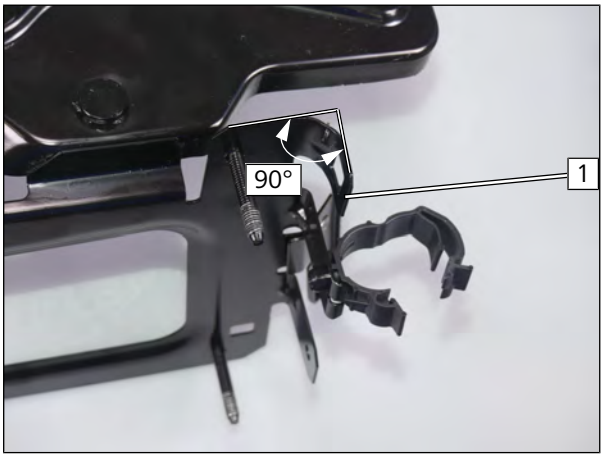


Fig. 30

▶ Bend tab **1** as shown.

Mounting edge protection and original vehicle clip

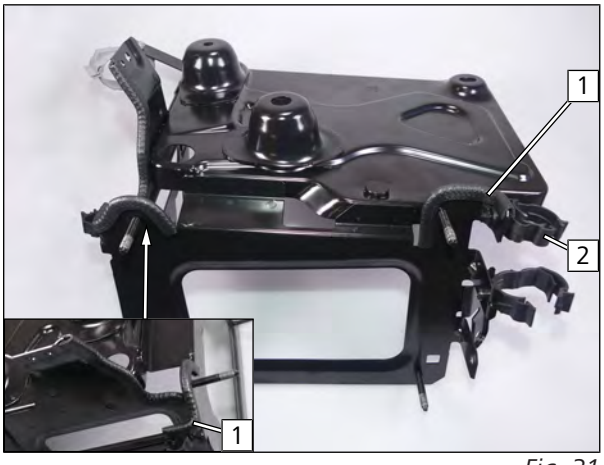


Fig. 31

1 Narrow edge protection

2 Original vehicle clip

Copying hole pattern and drilling hole

Fig. 32

▶ Drill holes at positions **X** and **Y** as shown in next figures.

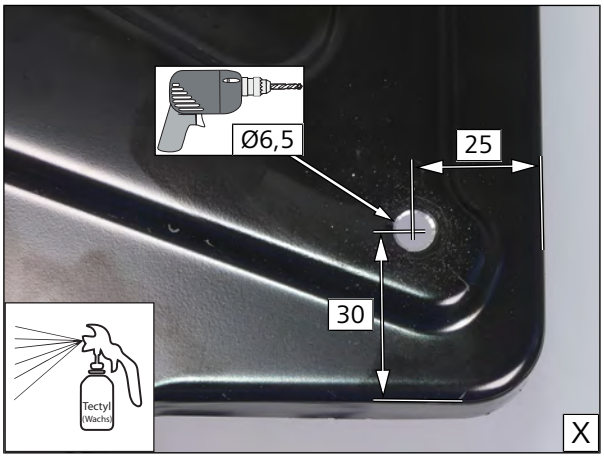


Fig. 33

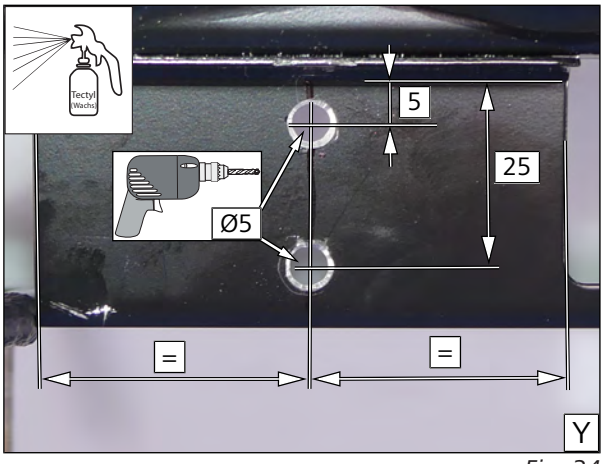


Fig. 34

Mounting angle bracket

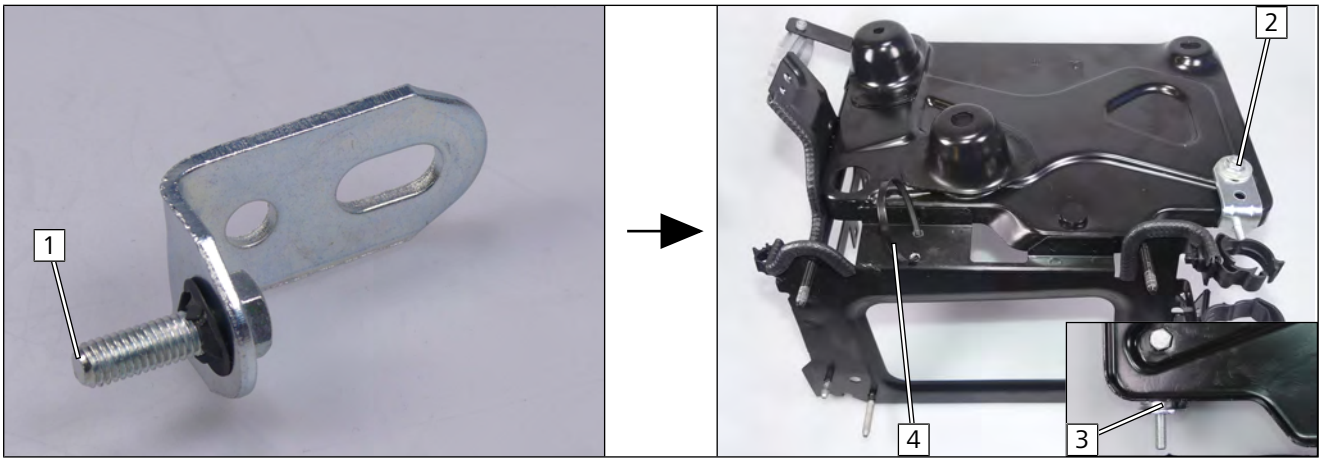


Fig. 35

1 M6x20 bolt, angle bracket, lock washer

2 M6x12 bolt, hole in carrier, oblong hole in angle bracket, large diameter washer, flanged nut

3 M6x20 bolt, premounted

4 Cable tie

Fitting edge protection on control unit cover

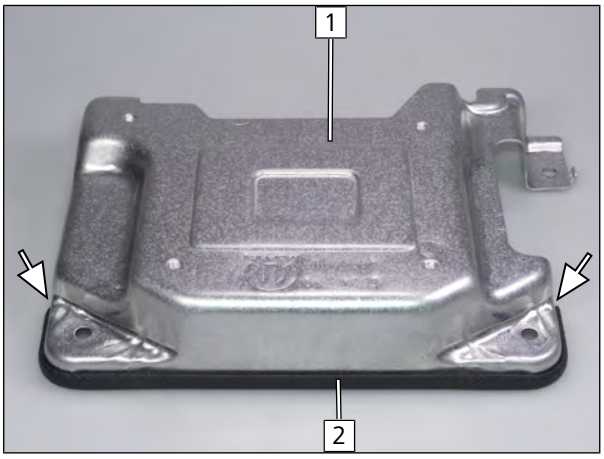


Fig. 36

1 Control unit cover

2 Narrow edge protection

Mounting original vehicle control unit

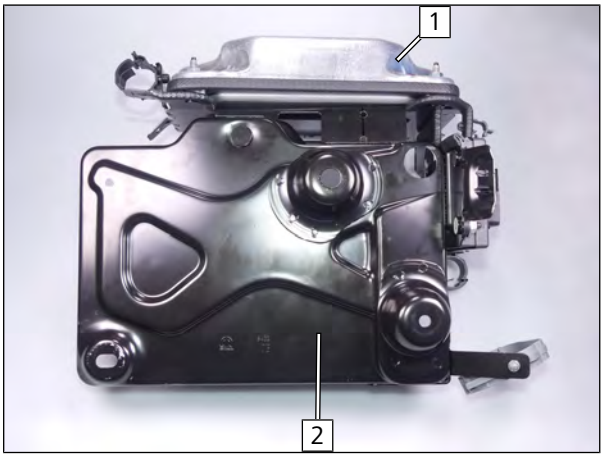


Fig. 37

1 Control unit with cover

2 Battery carrier

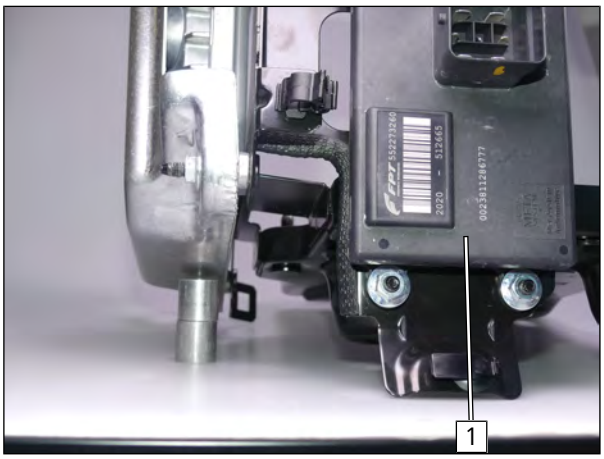


Fig. 38

[1] Control unit (if present)

8.5 Mounting heater

Mounting heater

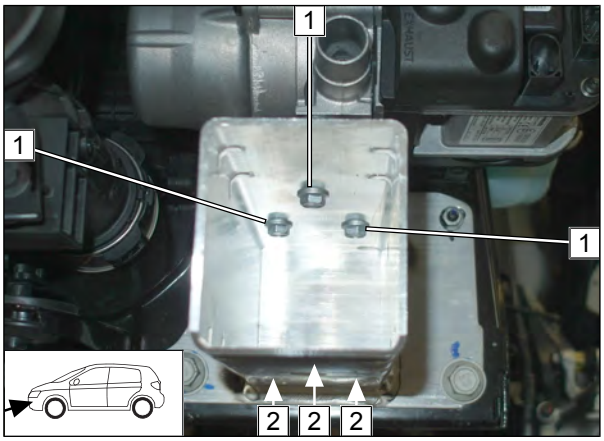


Fig. 39

▶ Pass M6x16 bolt with serrated flange [1] through 16mm dia. hole [2].

Mounting wiring harnesses

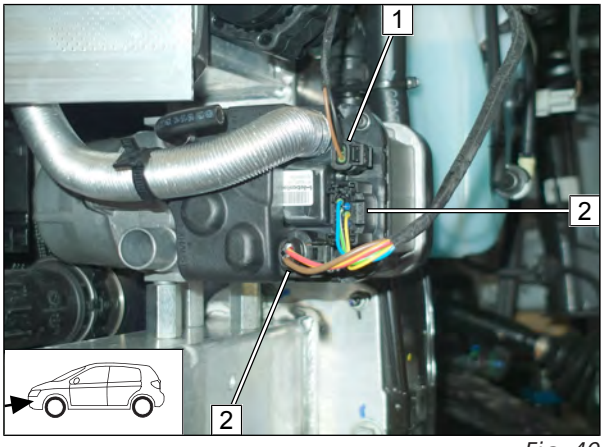


Fig. 40

[1] Coolant pump wiring harness connector

[2] Heater wiring harness connector

9 Coolant

9.1 Hose routing diagram

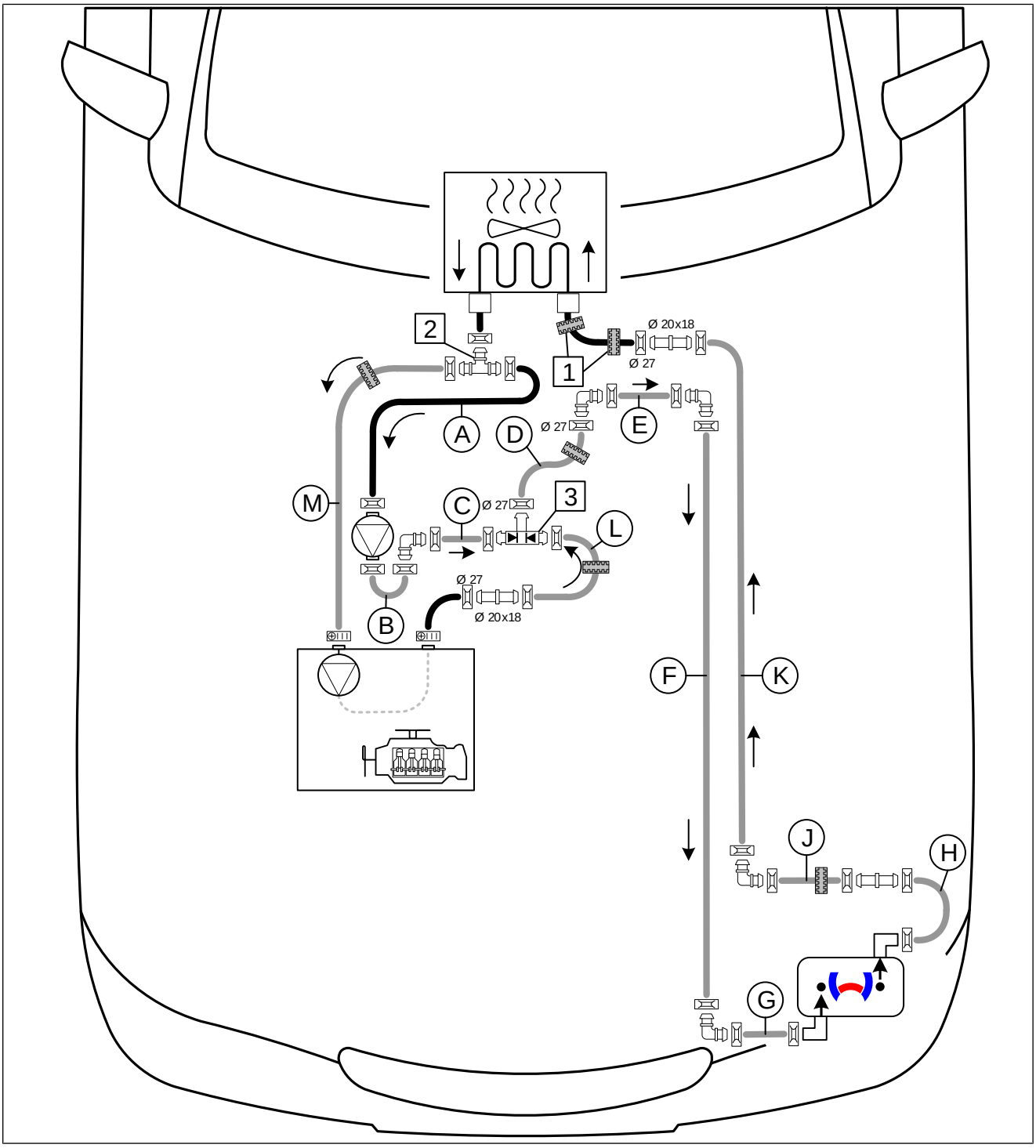


Fig. 41

All spring clips without a specific designation = Ø25

All screw clamps = Ø16-25

All rubber isolators without a specific designation = Ø22

All connecting pipes without a specific designation or = Ø18x18

1 Ø25 rubber isolator; 2 3x Ø18 T-piece; 3 Ø18 double non-return valve

9.2 Coolant circuit installation

Dismantling original vehicle connector

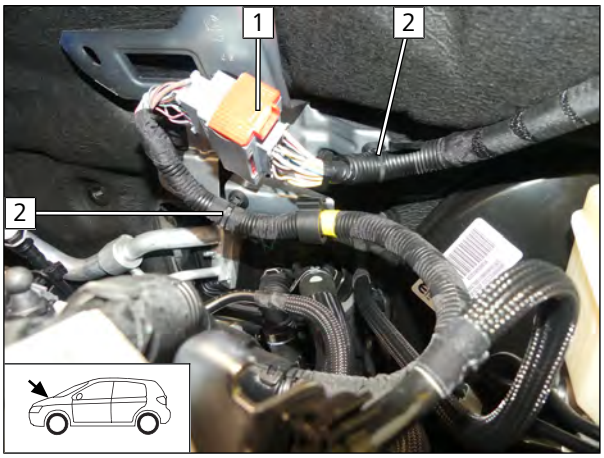


Fig. 42

1 Disconnect original vehicle connector
2 Detach original vehicle wiring harness

Dismantling hoses

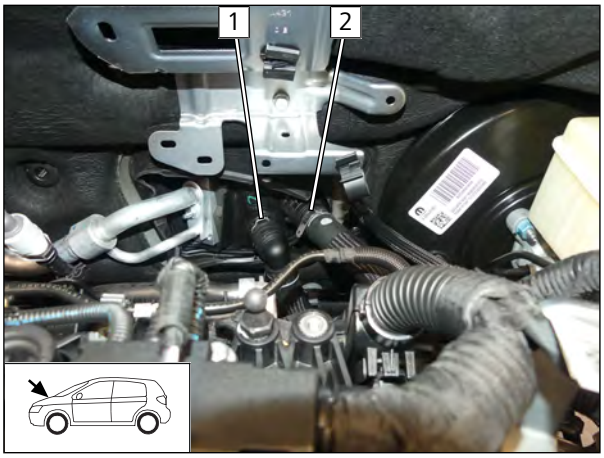


Fig. 43

1 Pull off heat exchanger inlet hose
2 Pull off heat exchanger outlet hose

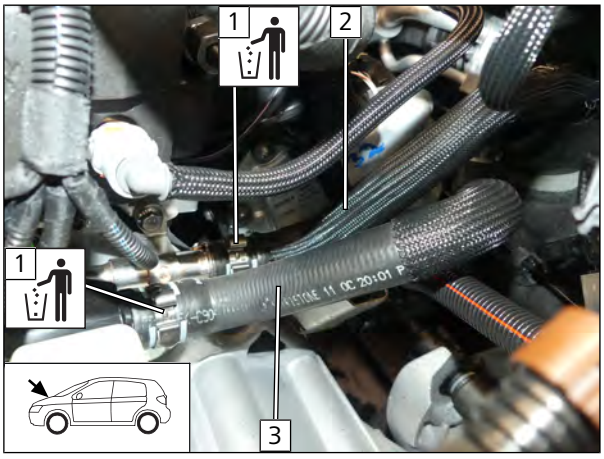


Fig. 44

1 Original vehicle hose clamp
2 Engine inlet hose
3 Hose of engine outlet

Preparing heat exchanger outlet / engine inlet hose

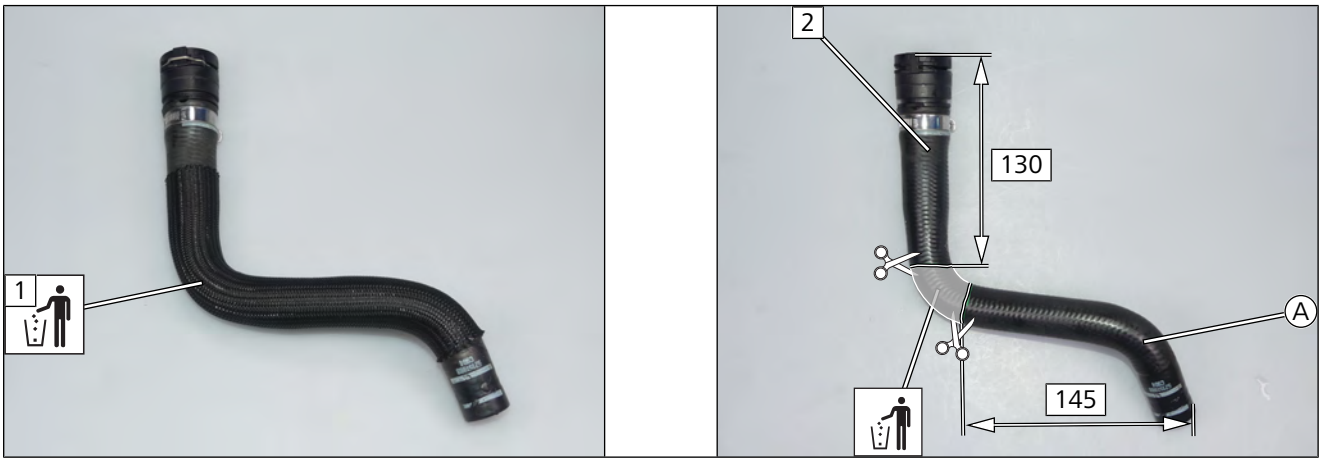


Fig. 45

1 Braided protection hose

2 Heat exchanger outlet hose section

A Engine inlet hose section

Premounting T-piece

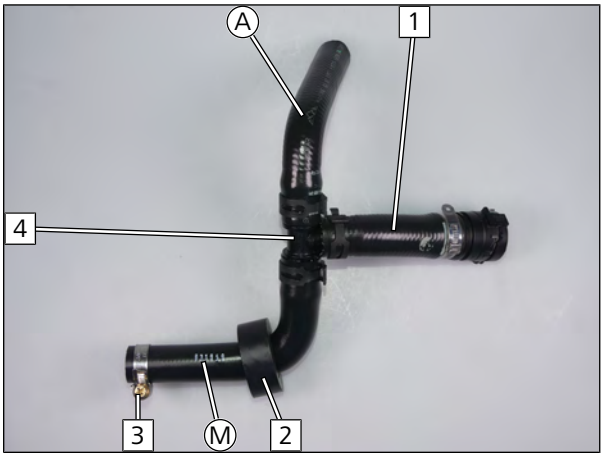


Fig. 46

1 Heat exchanger outlet hose section

2 Ø22 rubber isolator

3 Screw clamp

4 3x Ø18 T-piece

Preparing hose of heat exchanger inlet / engine outlet

Fig. 47

1 Braided protection hose

2 Heat exchanger inlet hose section

3 Engine outlet hose section

Premounting double non-return valve

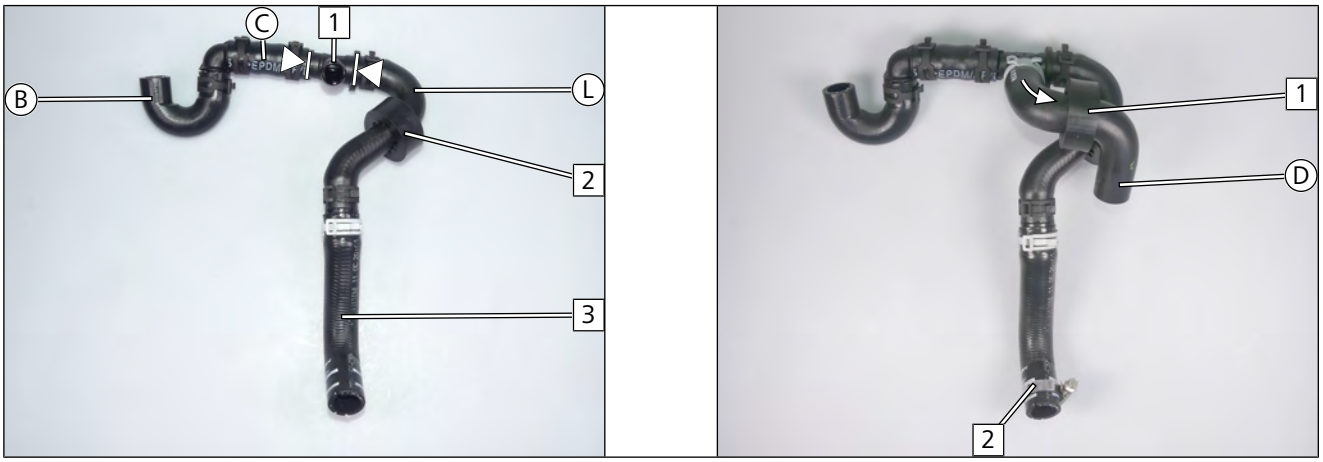


Fig. 48

- **1** 3x Ø18 double non-return valve
- **2** Ø22 rubber isolator
- **3** Engine outlet hose section

- **1** Ø22 rubber isolator
- **2** Screw clamp

Preparing coolant pump perforated bracket

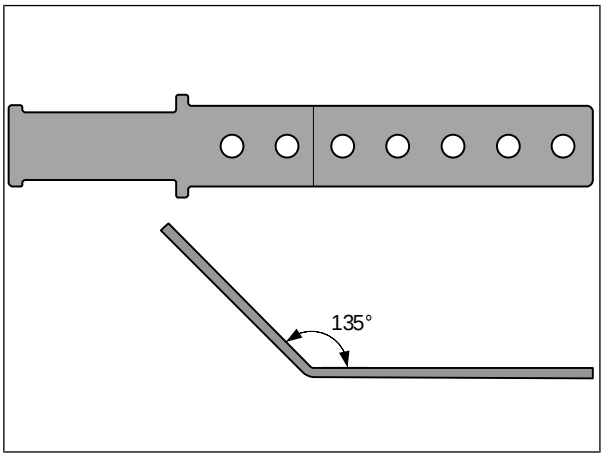


Fig. 49

Premounting coolant pump

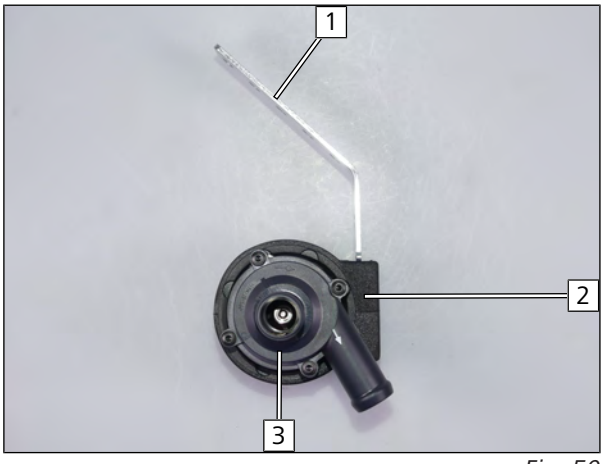


Fig. 50

- **1** Coolant pump perforated bracket
- **2** Coolant pump mount
- **3** Coolant pump

Mounting coolant pump

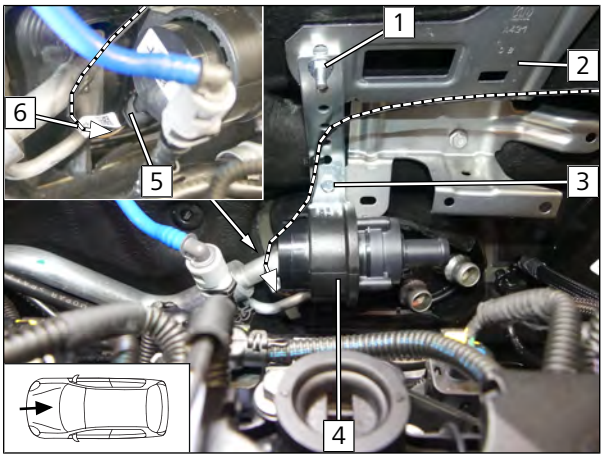


Fig. 51

1 M6x20 bolt, large diameter washer, original vehicle hole, coolant pump perforated bracket, flanged nut
2 Original vehicle bracket
3 M6x20 bolt, coolant pump perforated bracket, spacer (8), original vehicle hole, large diameter washer, flanged nut
4 Premounted coolant pump
5 Coolant pump connector
6 Coolant pump wiring harness

Preparing rubber isolators

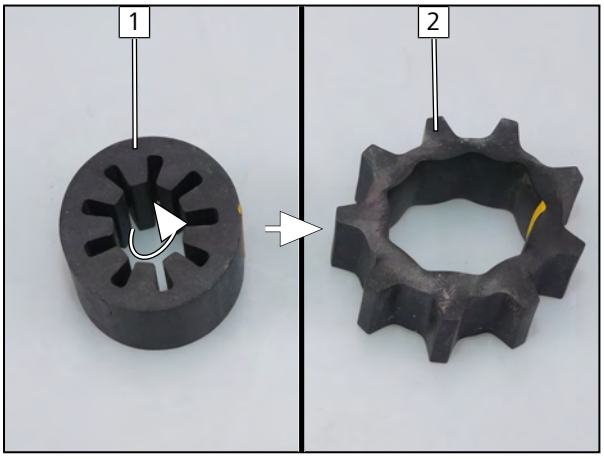


Fig. 52

▶ For easier installation, turn two rubber isolators 1 inside out.

▶ After the installation turn the rubber isolators back again.

1 Ø13.5 rubber isolator, original
2 Rubber isolator turned inside out

Fitting rubber isolators

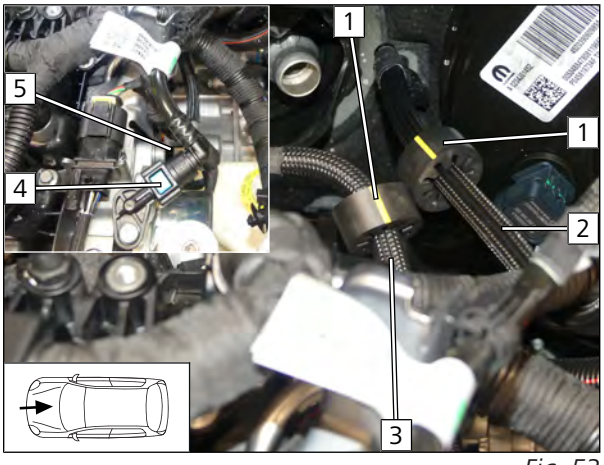


Fig. 53

▶ Disconnect original vehicle lines 2 and 3 using quick-release couplings 4 and 5. Slide rubber isolators 1 on lines 2 and 3 and position them as shown.

Premounting battery carrier

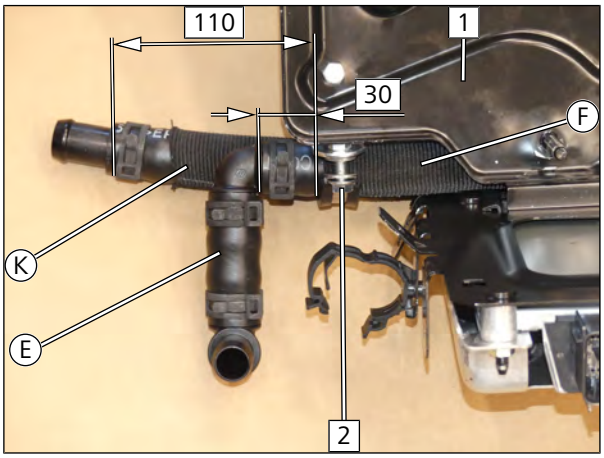


Fig. 54

1 Premounted battery carrier

2 Ø38 rubber-coated p-clamp, premounted M6x20 bolt, M6 flanged nut

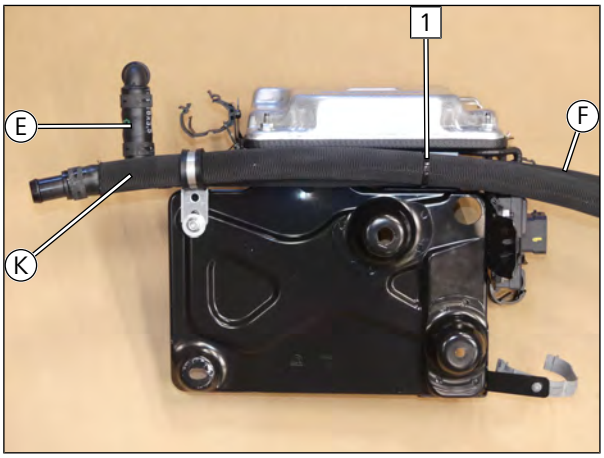


Fig. 55

1 Close cable tie

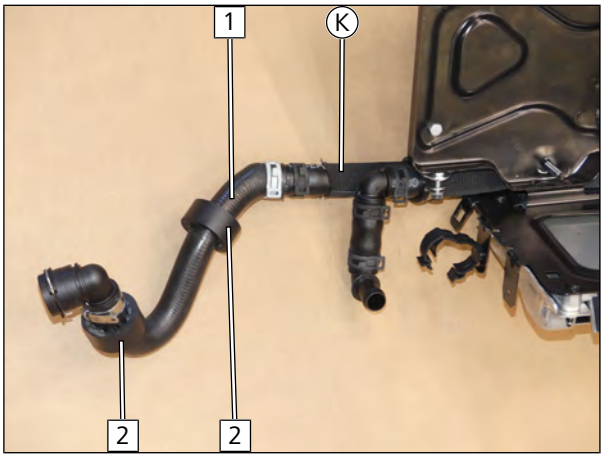


Fig. 56

1 Heat exchanger inlet hose section

2 Ø25 rubber isolator

Installing battery carrier

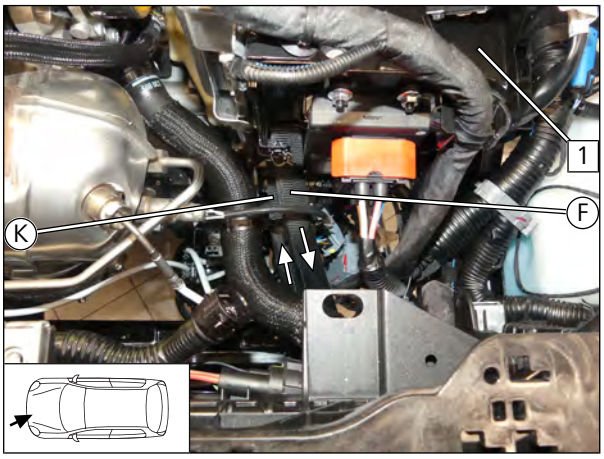


Fig. 57

▶ Route hoses (F) and (K) to HG installation location.

1 Premounted battery carrier

Mounting heat exchanger inlet

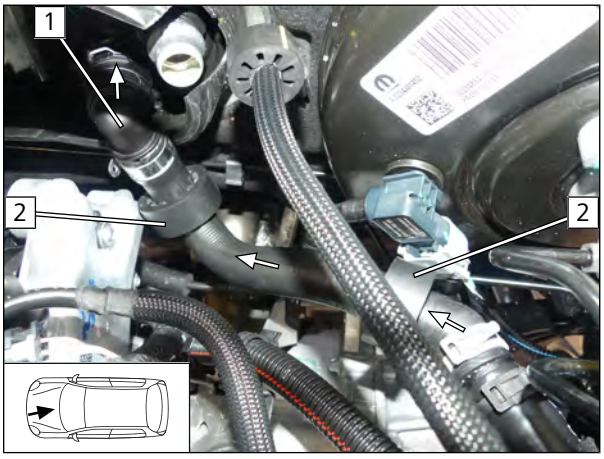


Fig. 58

1 Heat exchanger inlet hose section

2 Aligning rubber isolator

Coolant pump outlet connection

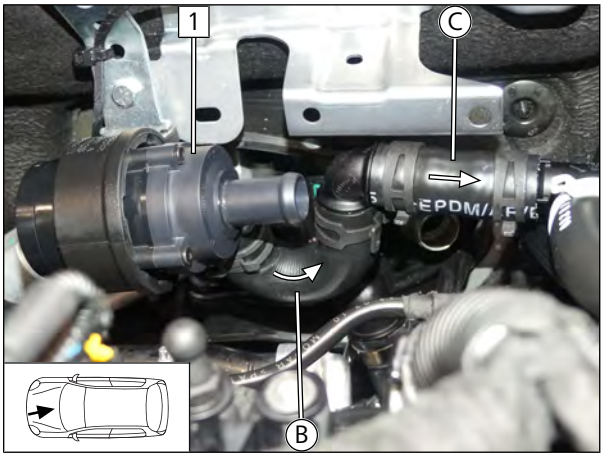


Fig. 59

1 Coolant pump

Mounting engine outlet hose section

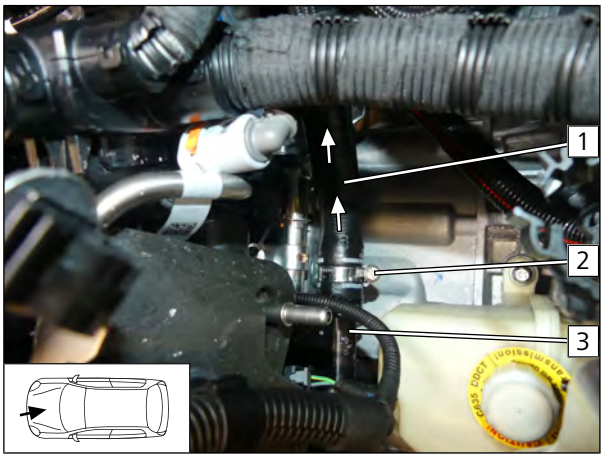


Fig. 60

[1] Engine outlet hose section
[2] Screw clamp
[3] Engine outlet connection piece

Connecting hose Ⓓ to hose Ⓔ

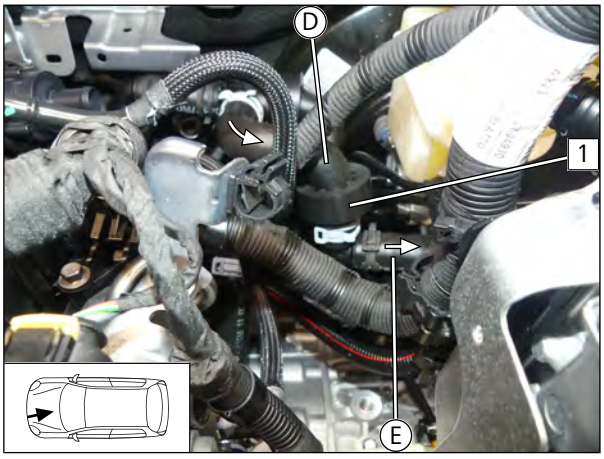


Fig. 61

[1] Aligning rubber isolator

Fixing rubber isolator

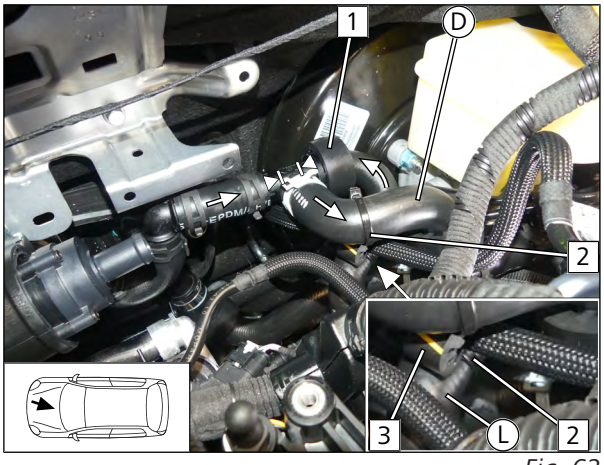


Fig. 62

▶ Align rubber isolators [1] and [3] as shown. Fix rubber isolator [3] with cable tie [2].

Mounting edge clip cable tie

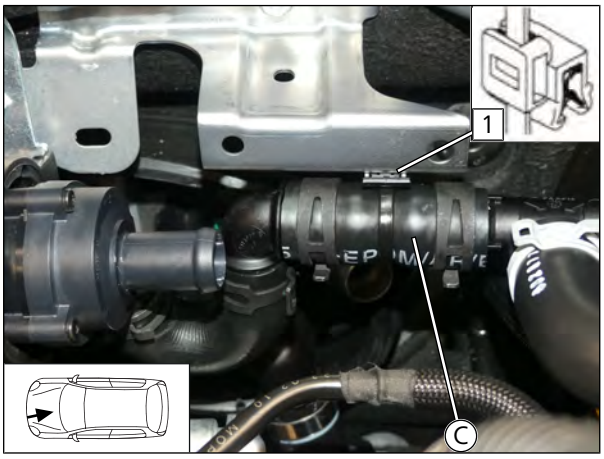


Fig. 63

1 Edge clip cable tie

Mounting heat exchanger outlet

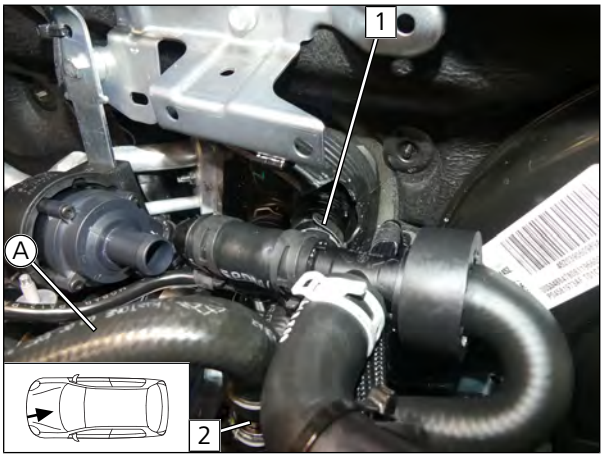


Fig. 64

1 Heat exchanger outlet hose section
2 Premounted T-piece

Mounting hose Ⓐ

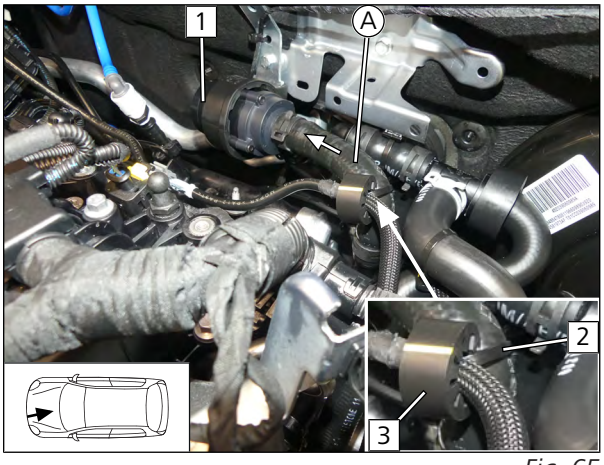


Fig. 65

1 Coolant pump
2 Cable tie
3 Premounted rubber isolator

Mounting engine inlet hose section

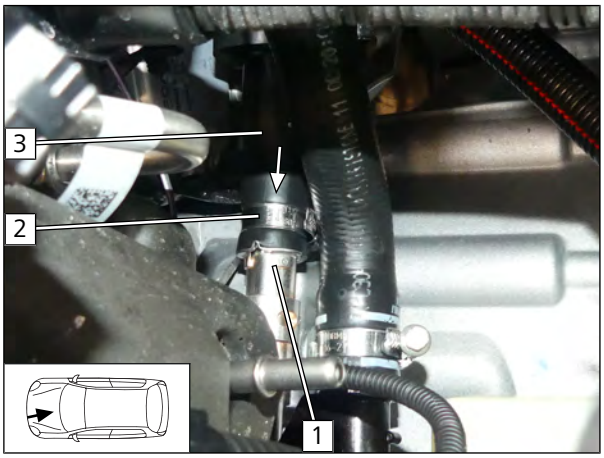


Fig. 66

1 Engine inlet connection piece
2 Premounted screw clamp
3 Engine inlet hose section

Aligning rubber isolator

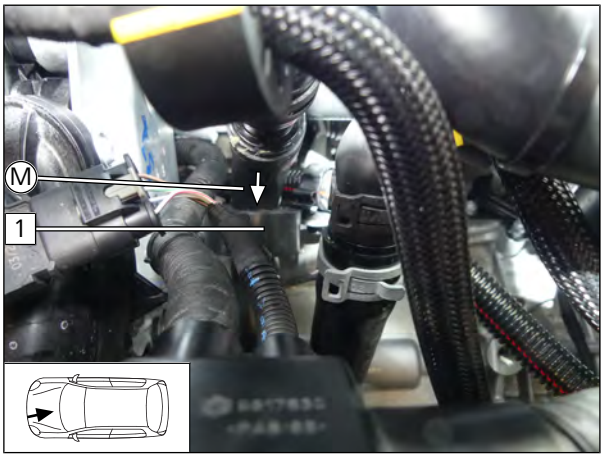


Fig. 67

1 Rubber isolator

Reinstalling original vehicle connector

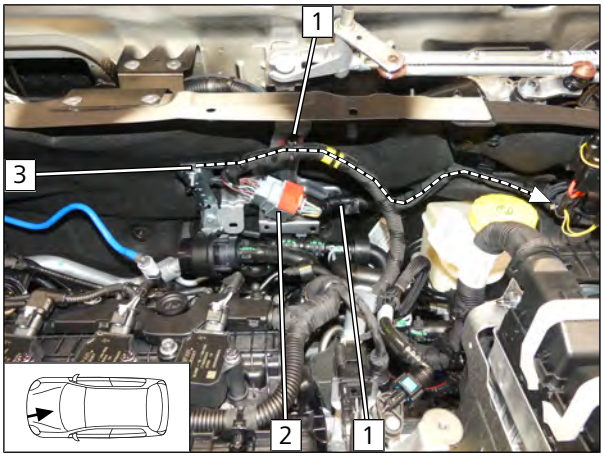


Fig. 68

1 Original vehicle clip
2 Original vehicle connector
3 Coolant pump wiring harness

Connecting and fastening hoses Ⓕ and Ⓖ as well as hoses Ⓚ and Ⓙ

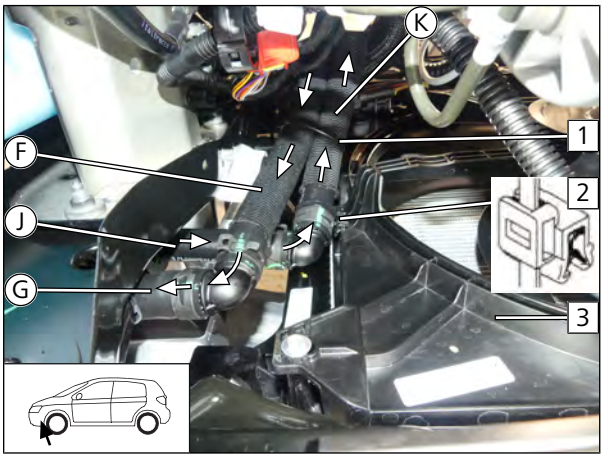


Fig. 69

1 Cable tie
2 Edge clip cable tie
3 Radiator trim

Mounting spacer bracket

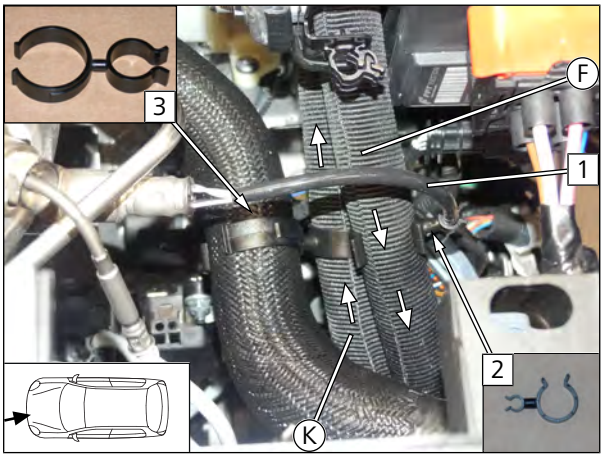


Fig. 70

1 Original vehicle wiring harness
2 Ø7/22 hose bracket
3 Ø25/37 hose bracket

Rubber-coated p-clamp

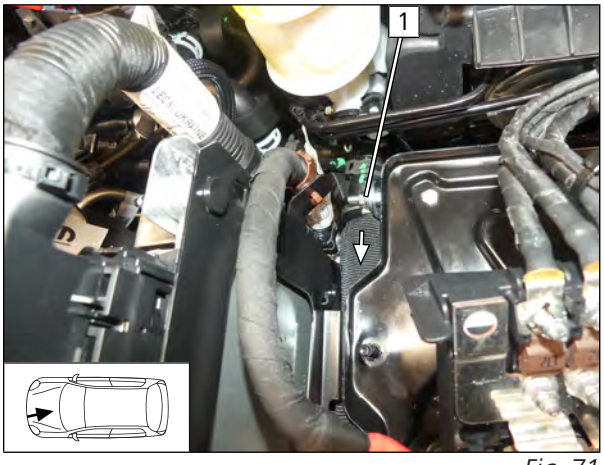


Fig. 71

Danger of damage to components

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

Tighten all loose screw connections.

1 Ø38 rubber-coated p-clamp

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

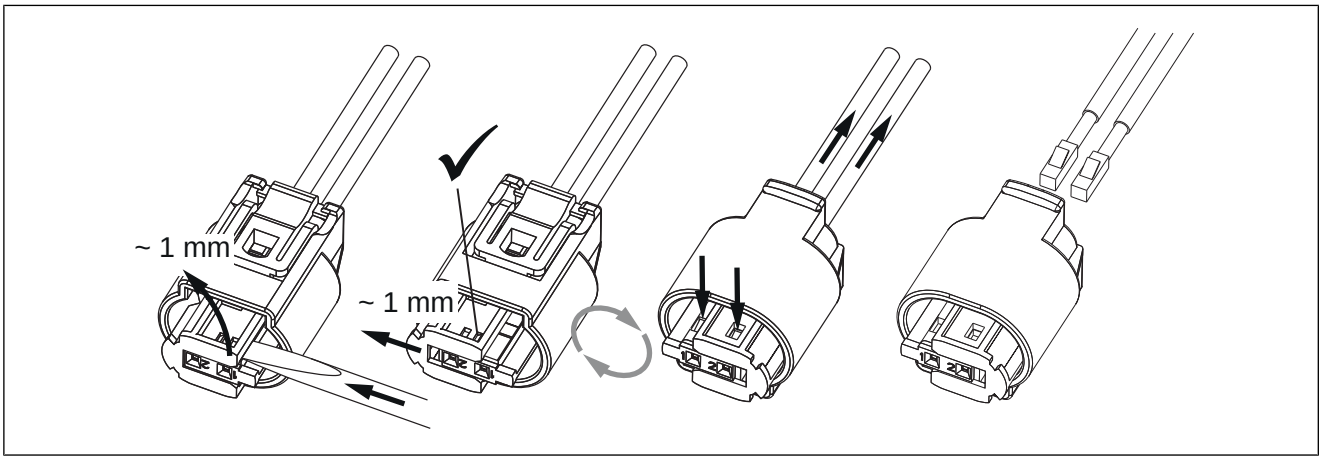


Fig. 72

10.1 Connecting and routing fuel line

Connecting heater

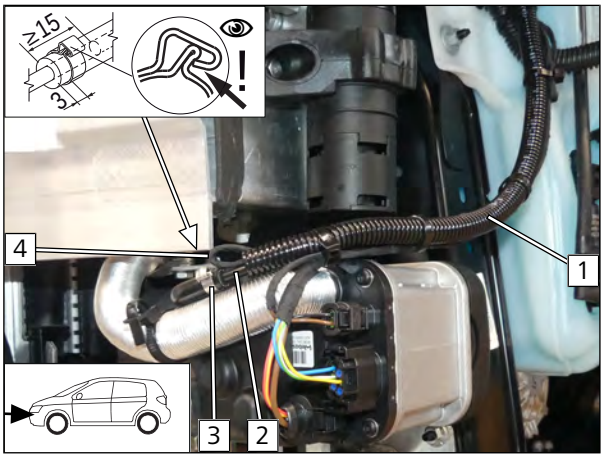


Fig. 73

1. Corrugated tube
2. Fuel line in corrugated tube
3. Ø10 clamp
4. Fuel pump wiring harness in corrugated tube

Routing fuel line

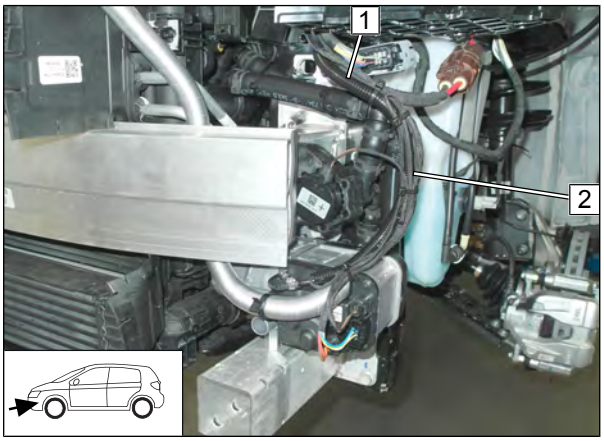


Fig. 74

1 Corrugated tube with fuel pump wiring harness and fuel line

2 Fasten corrugated tube as well as heater and coolant pump wiring harnesses with cable ties

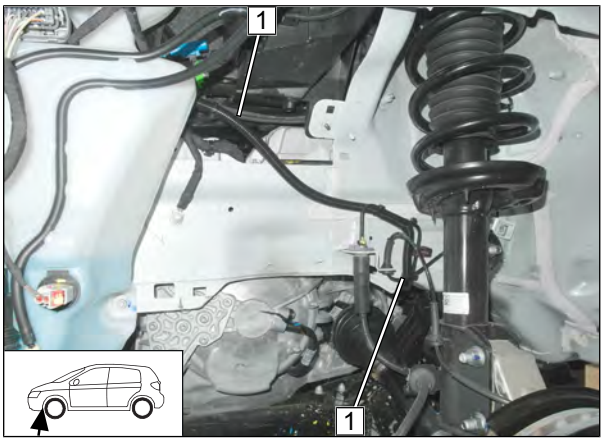


Fig. 75

▶ Fasten corrugated tube with fuel pump wiring harness and fuel line using cable ties.

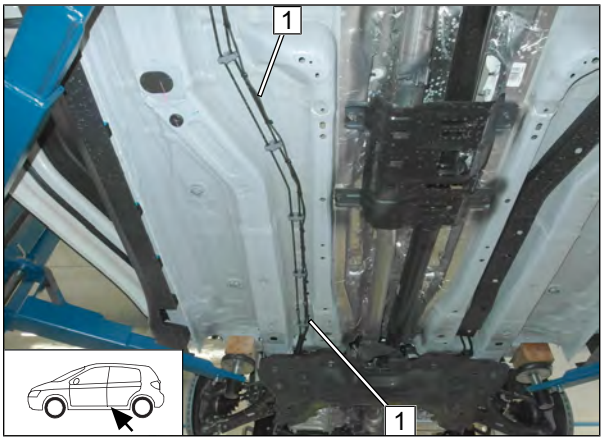


Fig. 76

▶ Fasten fuel pump wiring harness and fuel line to original vehicle brake line with cable ties.

10.2 Mounting fuel pump

Fuel pump perforated bracket

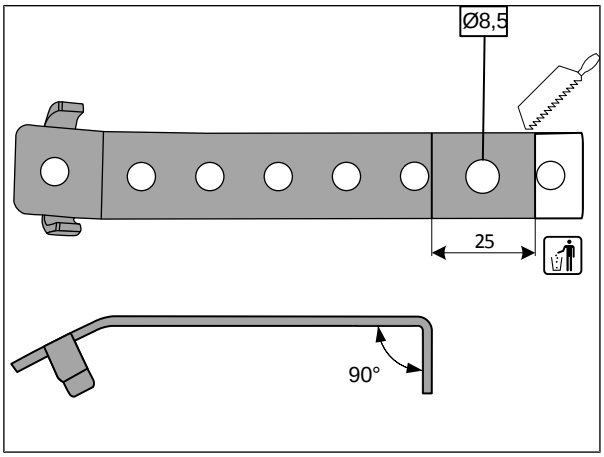


Fig. 77

Mounting fuel pump perforated bracket

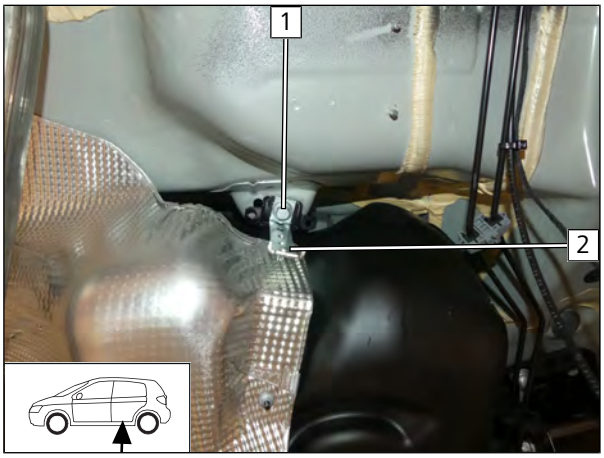


Fig. 78

1 Original vehicle bolt
2 Fuel pump perforated bracket

Premounting fuel pump

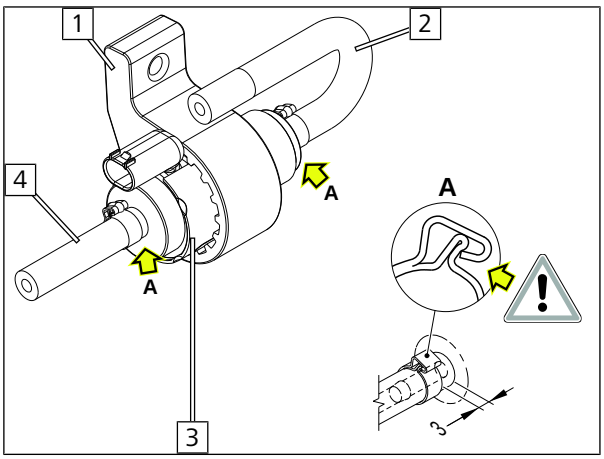


Fig. 79

The alignment of the fuel pump and fuel hoses will be carried out afterwards, during the installation.

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

Mounting fuel pump

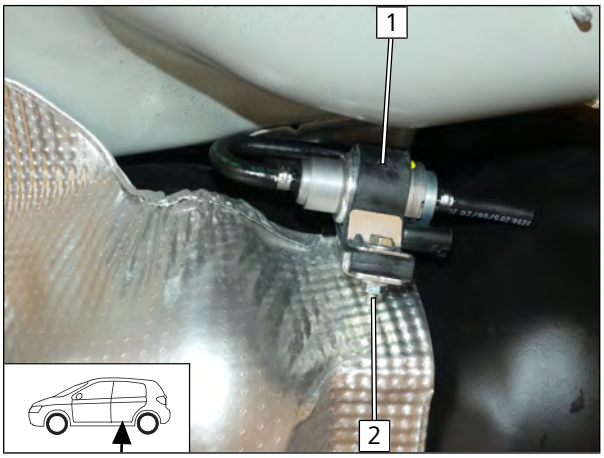


Fig. 80

1 Premounted fuel pump

2 M6x25 bolt, support angle bracket, fuel pump mount, perforated bracket, flanged nut

Assembling fuel pump connector X7

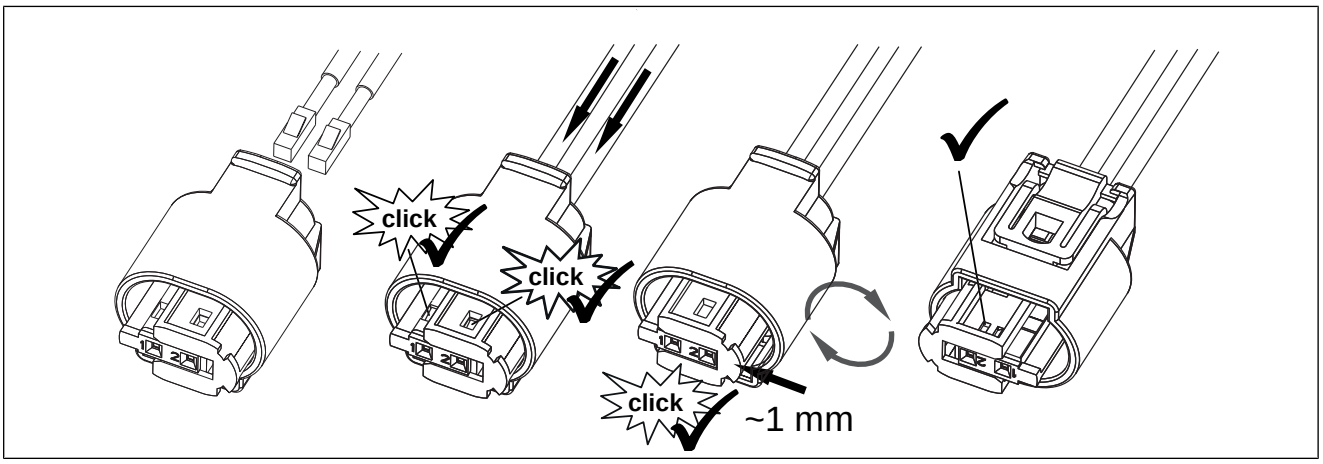


Fig. 81

Connecting fuel line

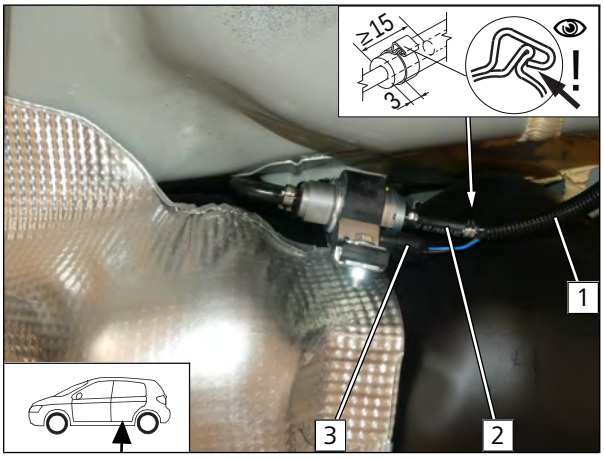


Fig. 82

1 HG fuel line in corrugated tube

2 Hose section, Ø10 clamp

3 Fuel pump wiring harness, connector X7 mounted

Removing rear seat

Fig. 83

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

1 Remove original vehicle bolt

10.3 Mounting tank extracting device

Drilling template

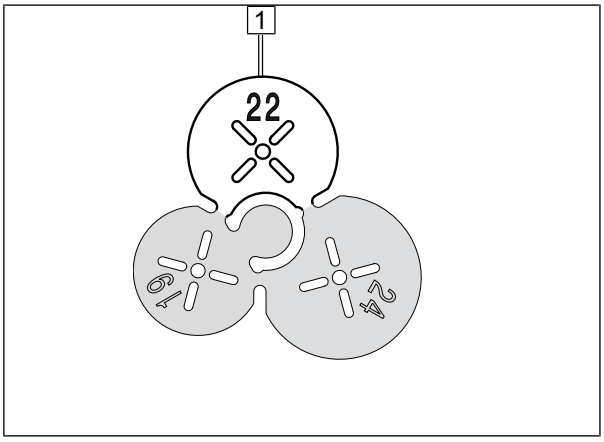


Fig. 84

1 22mm dia. drilling template

Copying hole pattern

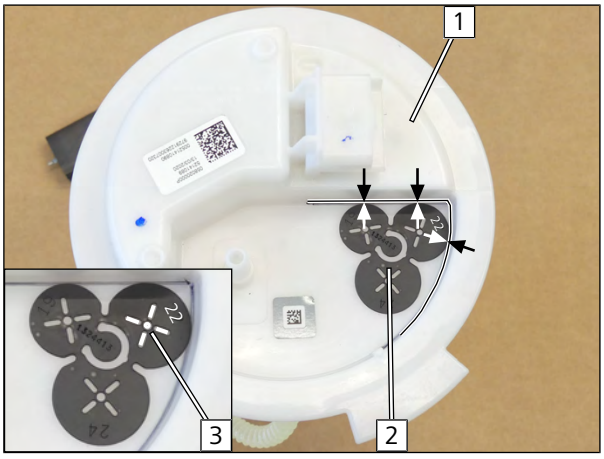


Fig. 85

Dismantle tank fitting in accordance with manufacturer's instructions.

1 Tank fitting
2 Position Ø22 drilling template as shown in fig.
3 Hole pattern

Hole for tank extracting device

Fig. 86

DANGER

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

1 Ø6 hole

Mounting tank extracting device

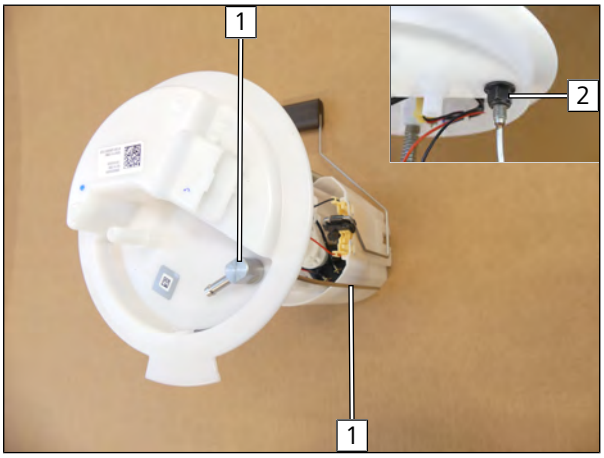


Fig. 87

Observe the installation instructions of the tank extracting device.

▶ Bend tank extracting device 1 according to template and cut to length. Insert tank extracting device in hole and align as shown.

2 Provided locking nut

Connecting fuel line

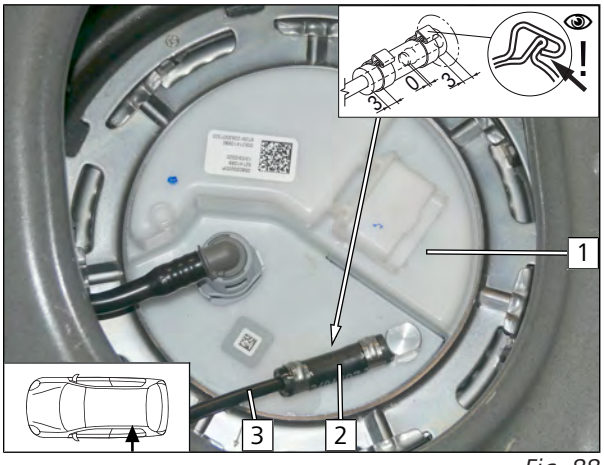


Fig. 88

Mount tank fitting in accordance with manufacturer's instructions.

1 Tank fitting
2 Hose section, Ø10 clamp [2x]
3 Fuel line of tank extracting device

Securing fuel line

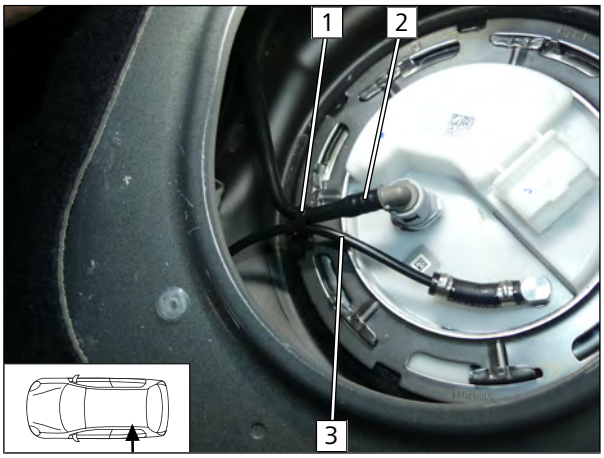


Fig. 89

1 Cable tie for tension relief
2 Original vehicle fuel line
3 Fuel line of tank extracting device

10.4 Fuel pump connection

Connecting fuel pump

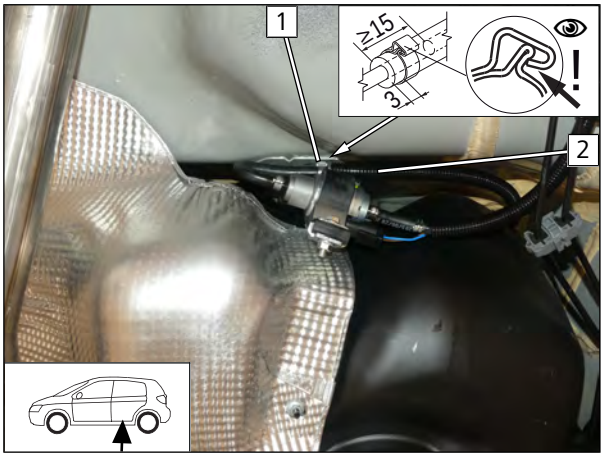


Fig. 90

1 Ø10 clamp
2 Fuel line of tank extracting device in corrugated tube

11 Combustion air

Installing spacer nut

Fig. 91

1 Remove and discard original vehicle nut
2 M6x40 spacer nut, original vehicle stud bolt

Premounting combustion air intake silencer

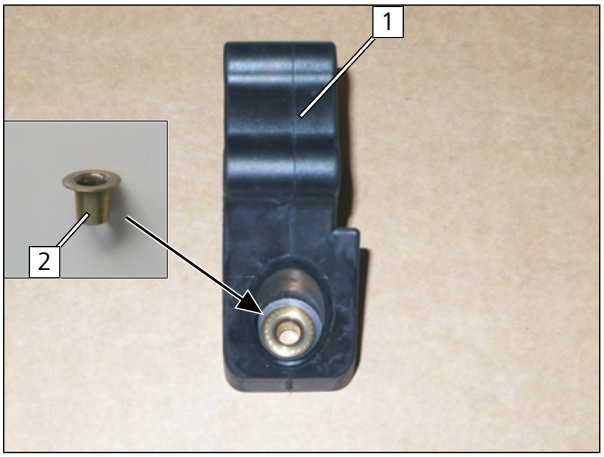


Fig. 92

1 Combustion air intake silencer mount
2 Tubular rivet

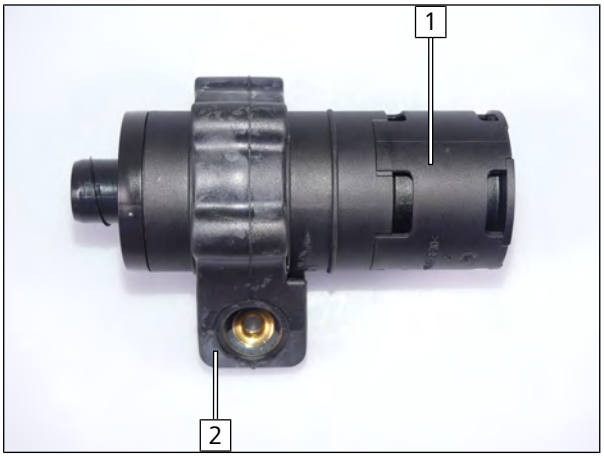


Fig. 93

1 Combustion air intake silencer
2 Combustion air intake silencer mount

Mounting combustion air intake silencer

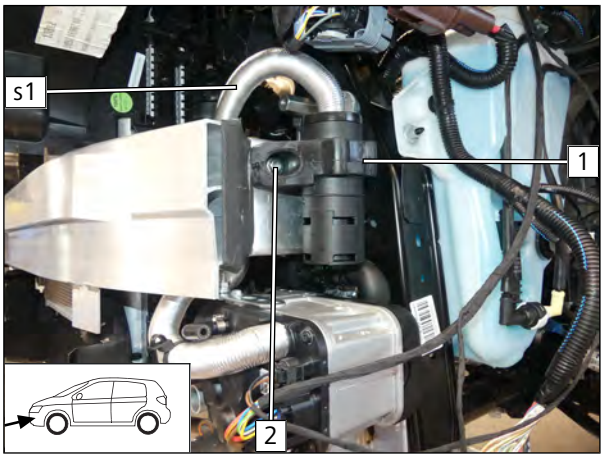


Fig. 94

Observe the installation instructions of the combustion air intake silencer.

1 Combustion air intake silencer, premounted

2 M6x25 bolt, spring lock washer, combustion air intake silencer mount, rivet nut

Fastening combustion air intake pipe

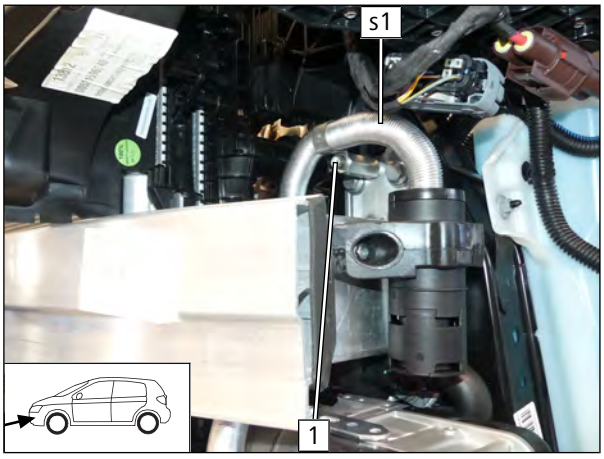


Fig. 95

1 M6x20 bolt, spring lock washer, Ø25 p-clamp, spacer nut

12 Exhaust

Preparing exhaust pipe

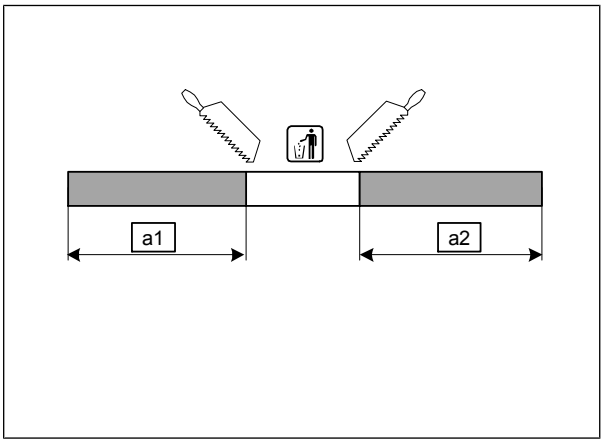


Fig. 96

a1 170

a2 190

Mounting exhaust silencer

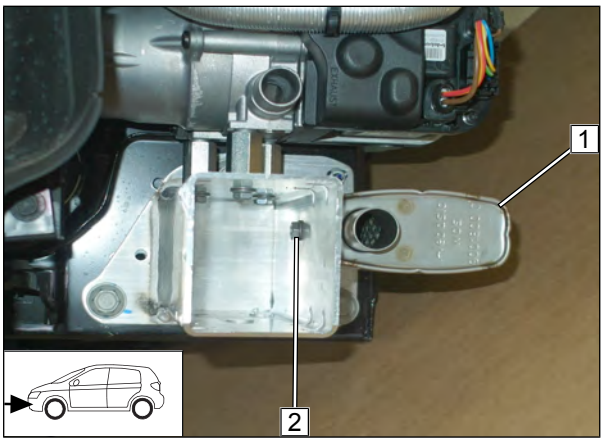


Fig. 97

1 Exhaust silencer

2 M6x16 bolt, spring lockwasher

Mounting exhaust pipe **a1**

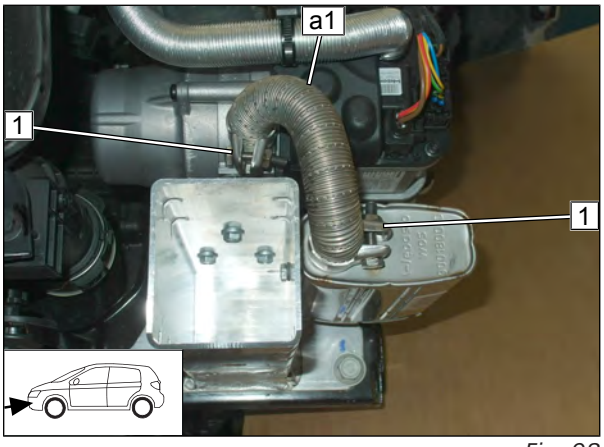


Fig. 98

1 Hose clamp

Mounting exhaust pipe a2

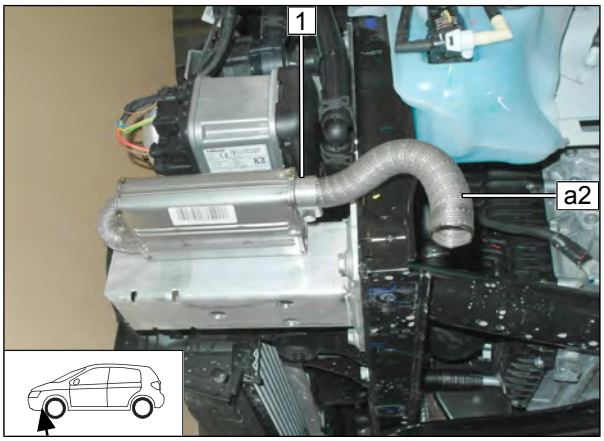


Fig. 99

1 Hose clamp

Remove bumper trim piece

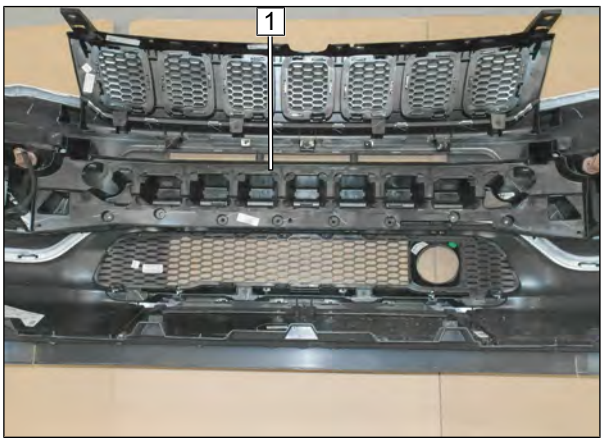


Fig. 100

1 Bumper trim piece

Adapting bumper trim piece

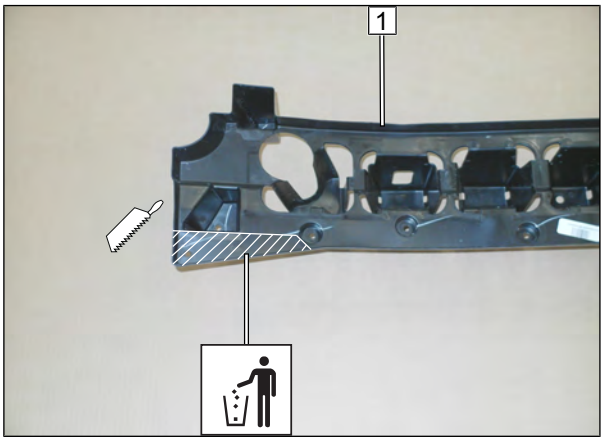


Fig. 101

▶ Cut out marked area of trim piece 1 as shown.

Mounting bumper trim piece

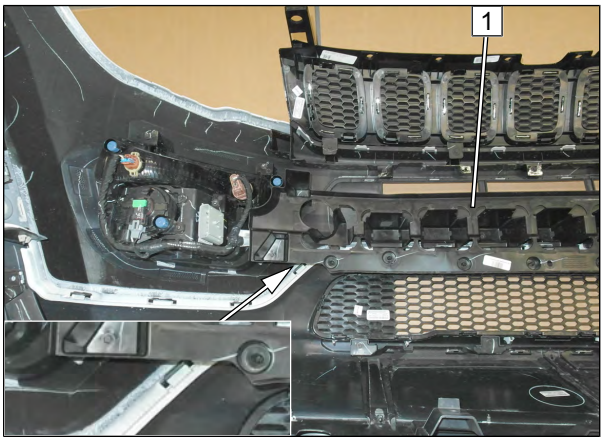


Fig. 102

[1] Bumper trim piece

Affixing heat protection

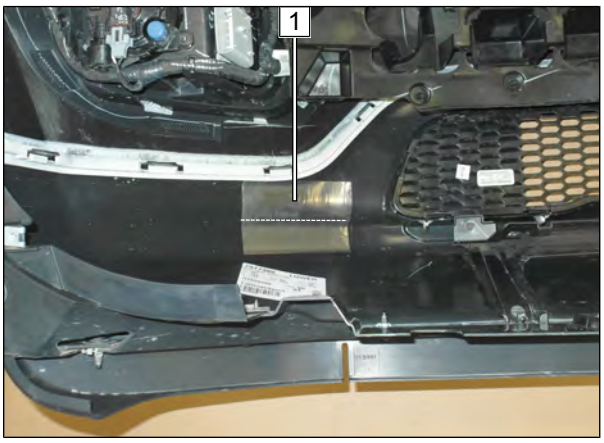


Fig. 103

▶ Split heat protection [1] and affix as shown.

Copying hole pattern

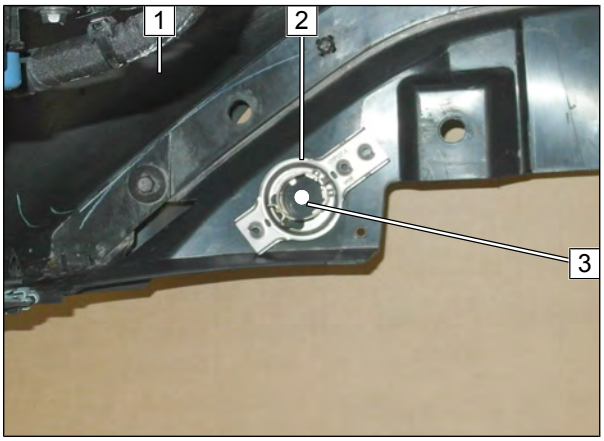


Fig. 104

Observe the EFIX installation instructions.

▶ Work steps E1.1, E1.2

[1] Bumper
[2] Exhaust end fastener
[3] Hole pattern, hole

Copying hole pattern

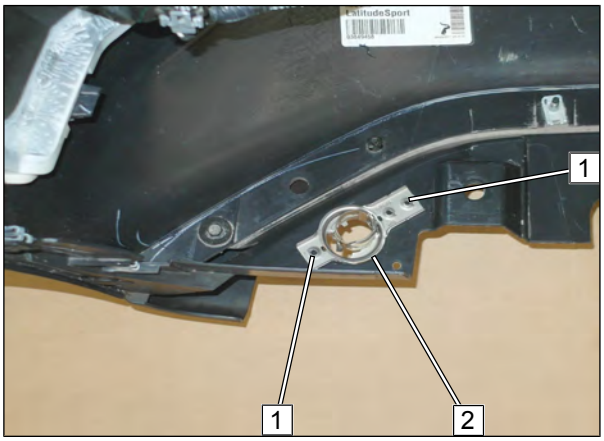


Fig. 105

▶ Work step E3

[1] Hole pattern

[2] EFIX

Drilling holes in underride protection

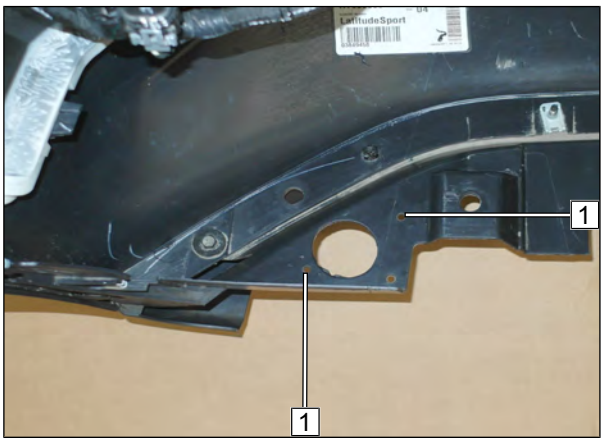


Fig. 106

▶ Work step E4

[1] Hole

Mounting EFIX

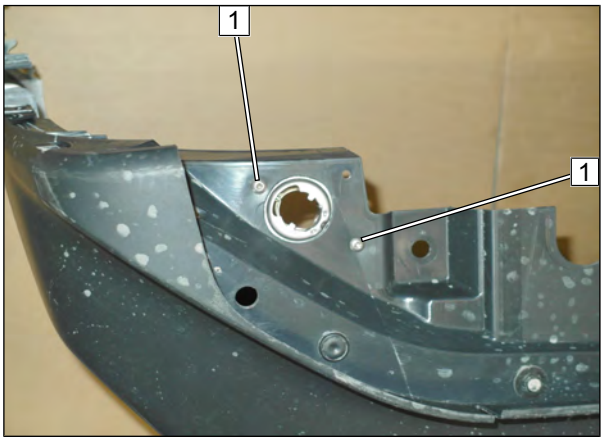


Fig. 107

▶ Work step E5

[1] 5x13 self-tapping screw

Mounting exhaust pipe a2

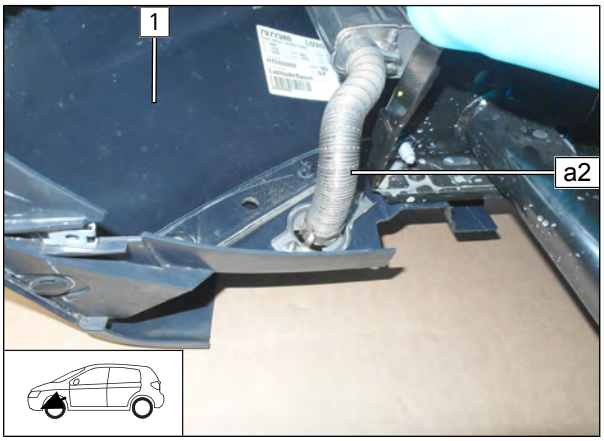


Fig. 108

- ▶ Work steps E6-E8
- ▶ Mount bumper 1.

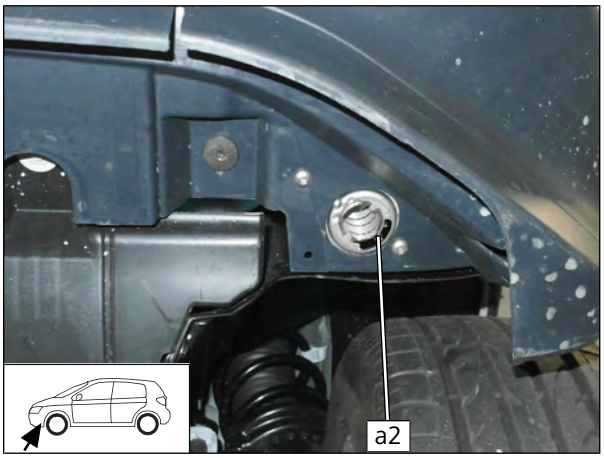


Fig. 109

- ▶ Work steps E6-E8

Checking distance

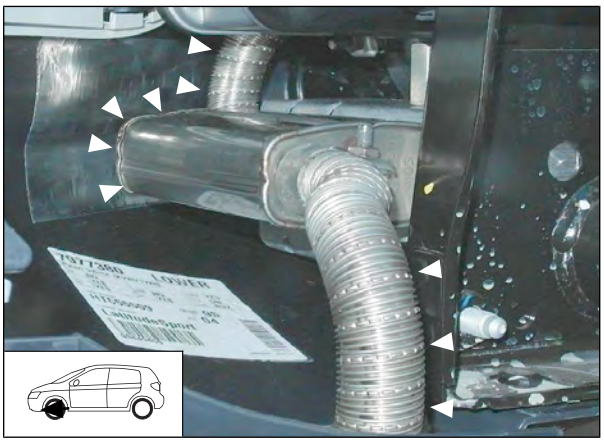


Fig. 110

Danger of damage to components

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

13 Electrical system of passenger compartment

13.1 Air-conditioning control

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

'**Webasto Comfort**' installation documentation for Jeep Compass air-conditioning control

13.2 Control element installation

Install the control element in accordance with the provided relevant general installation documentation. The installation location of the optional control element MultiControl or the push button of the Telestart or ThermoCall/ThermoConnect options should be confirmed with the end customer and should comply with the installation conditions.

14 Final Work

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

▶ Reassemble the components 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, pair Telestart transmitter.

▶ If the fan function or A/C control panel settings need to be checked, see the installation documentation in the additional kit 'Webasto Comfort' A/C control, section 'Final work'.

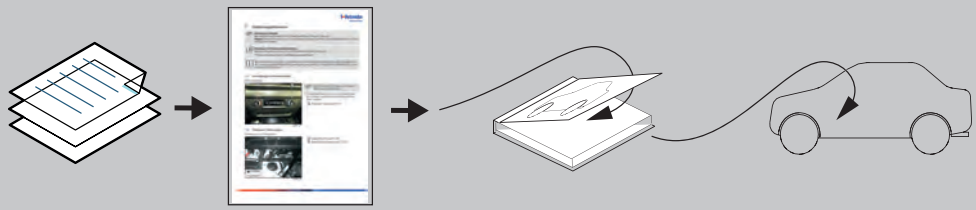
▶ Perform the initial start-up and function check.

▶ 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.



This is a translation from the original German installation instructions.
To request this Installation Documentation in another language, please locate and contact your local Webasto dealer.
You can find your nearest dealer at: https://dealerlocator.webasto.com/en-int.

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CE

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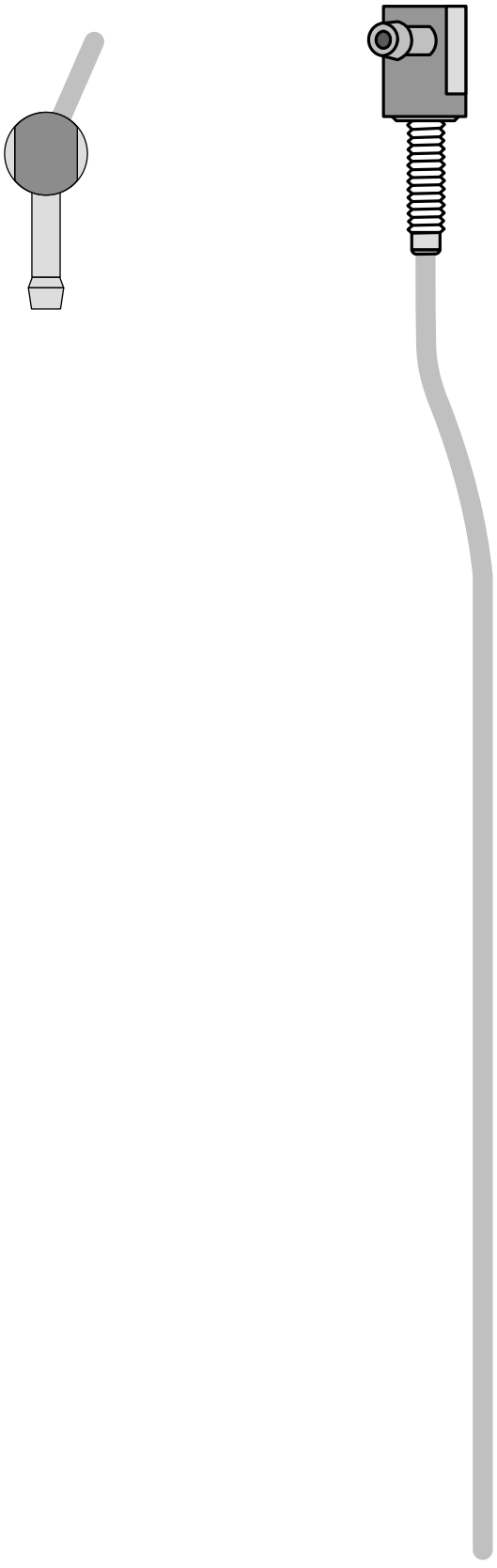
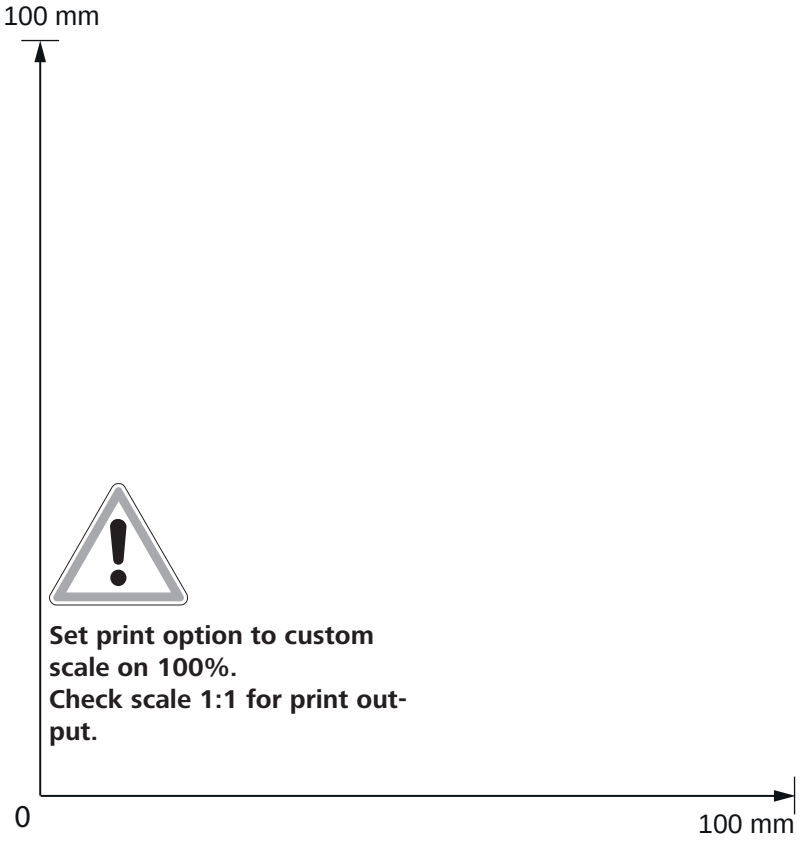
15 Tank extracting device template





Set print option to custom scale on 100%.
Check scale 1:1 for print output.