



Installation documentation

for water heater Thermo Top Evo
'Inline' coolant circuit with engine preheating

Renault Captur

Left-hand drive vehicle

Manufacturer	Model	Туре	Model year	EG-BE-No. / ABE
Renault	Captur	RJB	2020	e2* 2007/46* 0684*

Motorisation	Fuel	Emission standard		[kW]	Displace- ment [cm³]	Engine code
1.0P	Petrol	EURO6; WLTP;DG	5-speed SG	74	999	H4D

Validity	Equipment variants	Model
		Captur
Verified	Automatic air-conditioning	Х
equipment variants	LED main headlights	Х
	LED daytime running lights	Х
	Start button with keycard	Х
Unverified	Manual air conditioning	Х
equipment variants	Halogen front fog lights	Х

Total installation time	Note
8.0 hours	

Contents

1	List of abbreviations	3	13	Electrical system of passenger compartment	40
2	Installation notes	4	13.1	Electrical system preparation	40
2.1	Information on Validity	4	13.2	Wiring diagram	42
2.2	Components used	4	13.3	Instrument panel trim removal notes	44
2.3	Notes on installation, in coordination with the end customer	4	13.4	Fan controller	45
2.4	Information on Total Installation Time	4	13.5	Control element installation	47
3	About this document	5	14	Final Work	48
3.1	Purpose of the document	5	15	FuelFix template	51
3.2	Warranty and liability	5	16	Operating instructions	53
3.3	Safety	5	16.1	A/C control panel settings	53
3.4	Using this document	6	16.2	Installation location of fuses	54
4	Technical Information	7			
5	Preparations	8			
5.1	Vehicle preparation	8			
5.2	Heater preparation	8			
6	Installation overview	9			
7	Electrical system of engine compart- ment	10			
8	Mechanical system	12			
8.1	Preparing installation location	12			
8.2	Premounting heater	14			
8.3	Heater mounting	18			
9	Fuel	20			
9.1	Routing fuel line	20			
9.2	Installing FuelFix	25			
10	Combustion air	30			
11	Coolant	33			
11.1	Hose routing diagram	33			
11.2	Coolant circuit installation	34			
12	Exhaust	36			
12.1	Mounting exhaust end fastener	36			
12.2	Mounting exhaust pipe	37			

1 List of abbreviations

DP Fuel pump

EFIX Exhaust end fastener

FF FuelFix (tank extracting device)

Fig. Figure HG Heater

PWM Pulse width modulator

RSH Relay and fuse holder of passenger compartment

SG Manual transmission

SH2 Engine compartment fuse holder for F1/F2

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. However, installation according to this installation documentation may be possible.

2.2 Components used

Designation	Order number
Basic delivery scope of Thermo Top Evo	In accordance with price list
Installation kit for Renault Clio/Captur petrol 2020	1327778A
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 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

2.4 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	
Webasto Standard A/C control	G
Tank extracting device (e.g. FuelFix)	F
Exhaust end fastener (EFIX)	E
Combustion air intake silencer	
Spacer bracket (ASH)	S

i

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 sys- tem	High-voltage	Coolant
**	= +		
Combustion air	Fuel	Exhaust	Software
		₩	

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

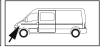
Consequences: Failure to follow the instructions can lead to minor injuries

Actions to protect yourself against risks.

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
\Rightarrow	Result of an action
1/12/a1	Position numbers for the image descriptions
1/12/A	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-theart-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	K
	► Close the fuel tank cap again ► Depressurise the cooling system	
Engine compart- ment and body	 ▶ Battery and battery carrier ▶ Air filter box air duct ▶ Entire air filter box with intake hose ▶ Firewall heat shield plate on the front passenger's side ▶ Front wheel on the driver's side ▶ Front wheel well trim on the driver's side ▶ Lower engine cover ▶ Underride protection on the front passenger's side 	K
Passenger compart- ment	 ▶ Side instrument panel trim on the driver's side ▶ Lower instrument panel trim on the driver's side ▶ Centre tunnel trim on the driver's side ▶ Shift gate trim ▶ A/C control panel ▶ Air-conditioning control unit ▶ Rear bench seat ▶ Open the tank fitting service lid 	K

5.2 Heater preparation

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

6 Installation overview

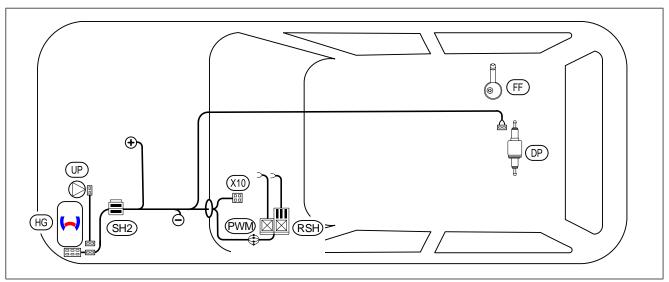
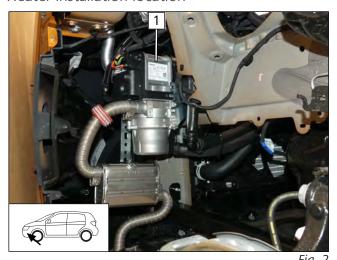


Fig. 1

Legend to installation overview

Abbreviation	Component
DP	Fuel pump
FF	FuelFix
HG	Heater
PWM	PWM Gateway
RSH	Relay and fuse holder of passenger compartment
SH2	Engine compartment fuse holder for F1/F2
UP	Coolant pump
X10	Female plug for control element

Heater installation location

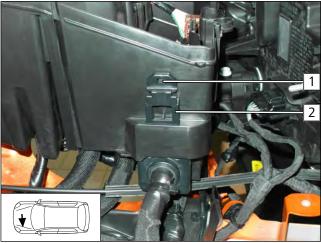


1 Heater



7 Electrical system of engine compartment

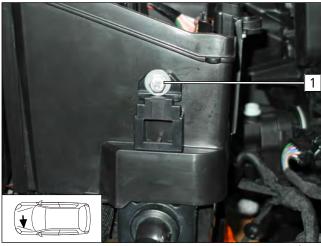
Copying hole pattern, drilling hole



- ▶ Position retaining plate of SH2 2 as shown, copy hole pattern 1.
- ▶ Remove retaining plate of SH2 2 again, drill a Ø5.5 hole.

Fig. 3

Mounting retaining plate of SH2



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

Fig.

Installing SH2

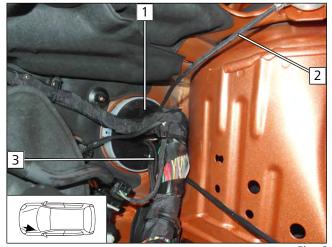


Fia. 5

- **1** SH2
- **2** HG wiring harness to the HG installation location
- Passenger compartment and control element wiring harnesses as well as earth wire to the wiring harness pass through in the passenger compartment



Passenger compartment wiring harness pass through



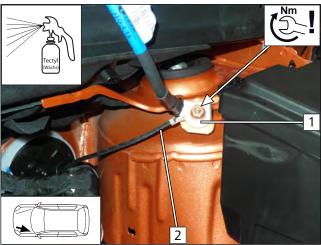


To prevent water seeping into the passenger compartment, the wiring harness must be routed upwards to the protective rubber plug and this plug must then be sealed with a suitable sealing compound.

- 1 Protective rubber plug
- **2** Earth wire
- **3** Passenger compartment and control element wiring harnesses

Fig. 6

Earth wire connection





DA DA

DANGER

Observe tightening torque

- 1 Original vehicle earth support point
- **2** Earth wire

Positive wire routing and connection

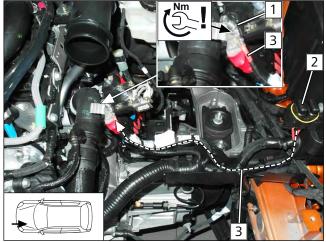


Fig. 8



DANGER

Observe tightening torque



The Fig. shows the installation situation. The battery is connected during the final work phase.

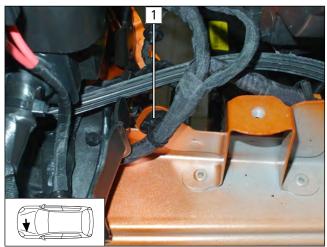
- 1 Original vehicle positive support point
- **2** SH2
- **3** Positive wire



8 Mechanical system

8.1 Preparing installation location

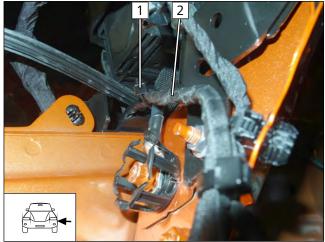
Removing original vehicle clip



1 Original vehicle clip

Fig. 9

Fastening HG wiring harness



► Attach HG wiring harness 2 to earth wire with cable tie 1.



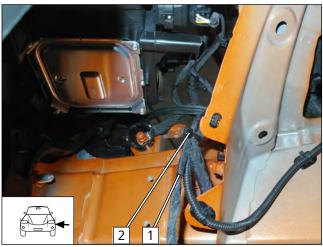


Fig. 11

► Attach HG wiring harness 1 to original vehicle lines with cable tie 2.



Preparing heater bracket

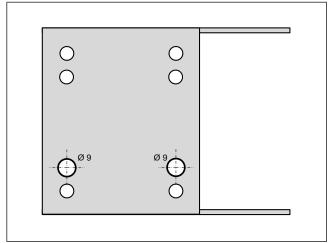


Fig. 12

Copying hole pattern

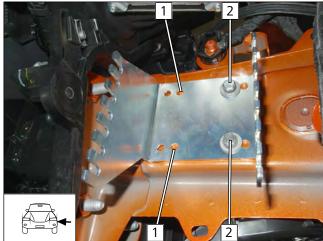


Fig. 13

► Install bracket.

- 1 Hole pattern
- 2 M6x20 bolt, spring lock washer, large diameter washer, HG bracket, original vehicle threaded hole

Drilling holes, inserting rivet nuts

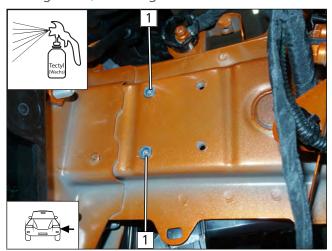


Fig. 14

1 Ø9 hole, rivet nut



Mounting bracket

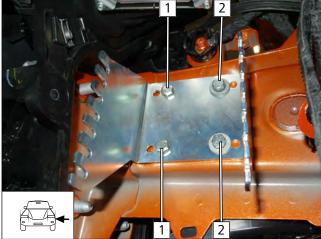


Fig. 15

- 1 M6x20 bolt, spring lock washer, HG bracket, rivet nut
- 2 M6x20 bolt, spring lock washer, large diameter washer, HG bracket, original vehicle threaded hole

8.2 Premounting heater

Mounting water connection piece

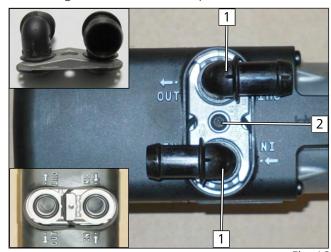


Fig. 16

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

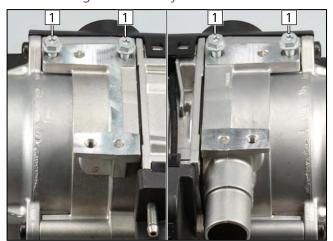


Fig. 17

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



Bending perforated bracket

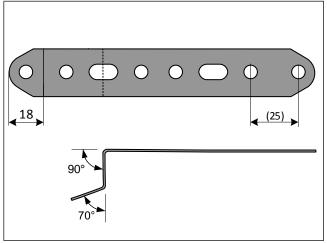


Fig. 18

Premounting exhaust silencer



Mounting exhaust silencer

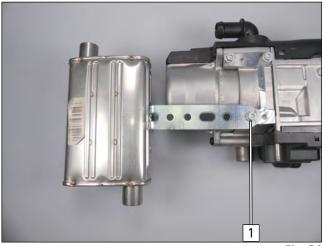


Fig. 20

1 M6x16 bolt, spring lockwasher, perforated bracket, exhaust silencer

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



Mounting fuel hose

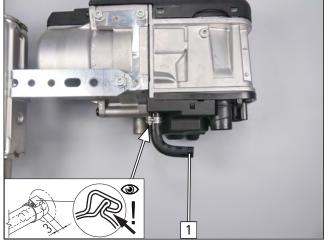


Fig. 21

Shortening and bending perforated bracket

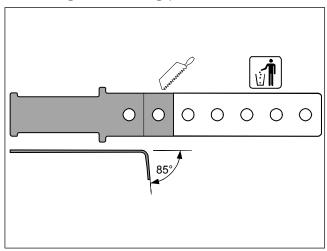


Fig. 22

Premounting coolant pump

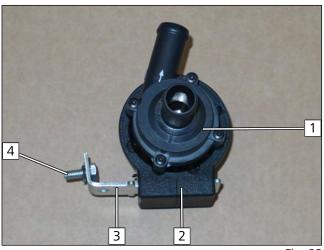


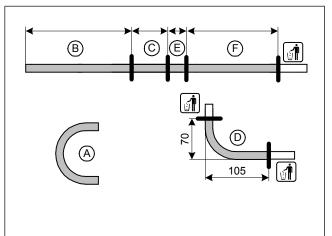
Fig. 23

1 90° moulded hose, Ø10 clamp

- 1 Coolant pump
- **2** Coolant pump mount
- **3** Perforated bracket
- 4 M6x16 bolt, perforated bracket, lock washer



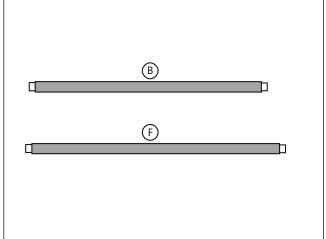
Cutting hoses to length



A	180° moulded hose
B	630
©	160
D	90° moulded hose
E	60
F	680

Fig. 24

Mounting fabric heat shrink tubing





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

Fig. 25

Connecting hose **(D)** to coolant pump outlet and HG/IN



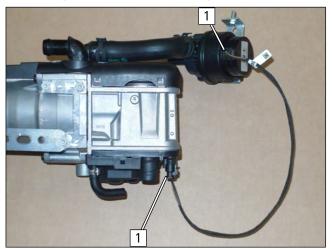


All spring clips Ø25

Fig. 26



Mounting coolant pump wiring harness

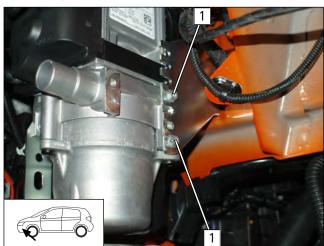


1 Coolant pump wiring harness connector

Fig. 27

8.3 Heater mounting

Mounting heater



1 Tighten 5x13 self-tapping bolt

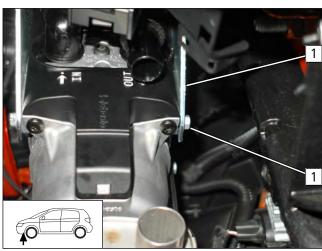
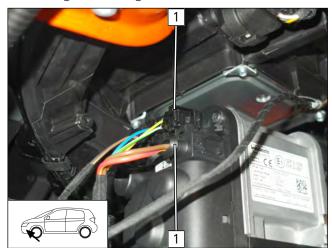


Fig. 28

1 Tighten 5x13 self-tapping bolt (1x covered)



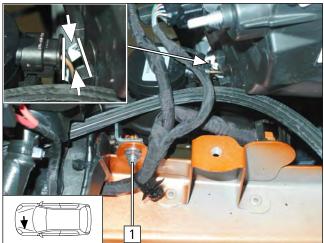
Mounting HG wiring harness connector



1 Heater wiring harness connector

Fig. 30

Mounting coolant pump





Ţ,

Ensure sufficient distance between coolant pump wiring harness connector and headlight, correct if necessary.



1 Premounted bolt on coolant pump, original vehicle hole, flanged nut



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

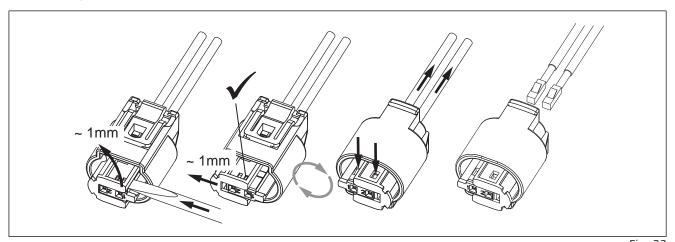


Fig. 32

9.1 Routing fuel line

Connecting heater

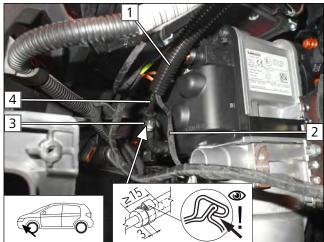


Fig. 33

▶ Draw fuel line 4 and fuel pump wiring harness 2 into Ø10 corrugated tube 1.

3 Ø10 clamp

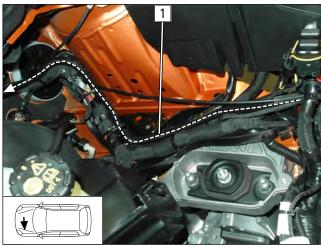


Routing fuel line



- ▶ Route corrugated tube 2 in the engine compartment.
- ► Attach the rest of the HG wiring harness 1 with cable ties





▶ Route corrugated tube 1 along original vehicle lines to the firewall and attach with cable ties.



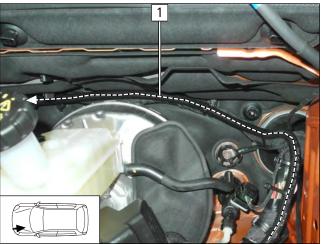
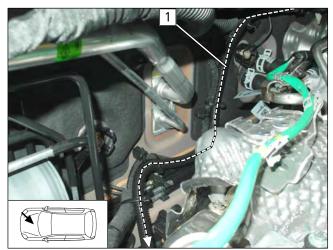


Fig. 36

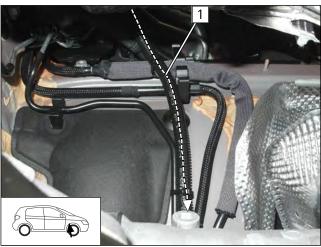
▶ Route corrugated tube 1 along the firewall on original vehicle lines and attach with cable ties.





▶ Route corrugated tube 1 along the bulkhead on original vehicle lines and attach with cable ties.





▶ Route corrugated tube 1 along original vehicle lines to the underbody and attach with cable ties.



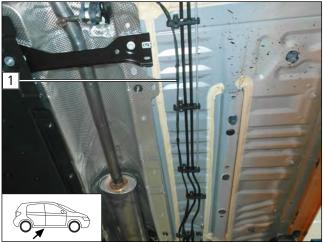
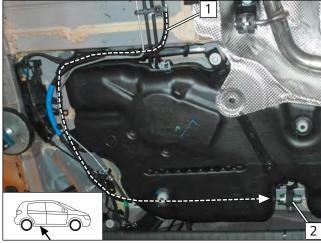


Fig. 39

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





▶ Draw fuel line and fuel pump wiring harness into Ø10 corrugated tube 1, route along original vehicle lines to the fuel pump installation location 2 and fasten with cable ties.

Fig. 40

Preparing fuel pump perforated bracket

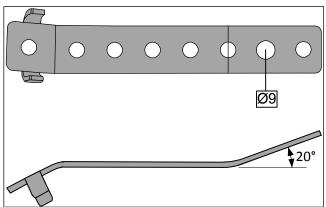


Fig. 41

Premounting fuel pump mount

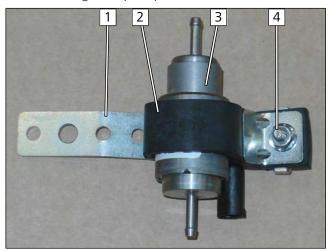
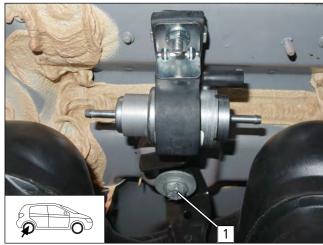


Fig. 42

- 1 Perforated bracket
- **2** Fuel pump mount
- **3** Fuel pump
- 4 M6x25 bolt, perforated bracket, fuel pump mount, support angle bracket, flanged nut



Mounting and aligning fuel pump



1 Original vehicle bolt with washer of the fuel tank mounting

Fig. 43

Assembling fuel pump connector X7

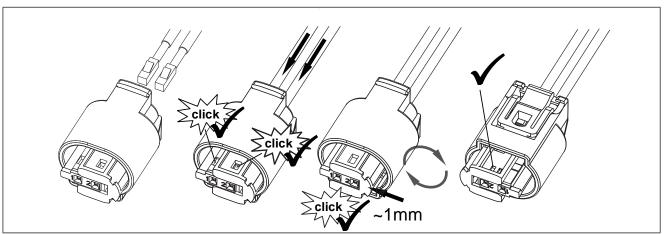


Fig. 44

Fuel pump connection

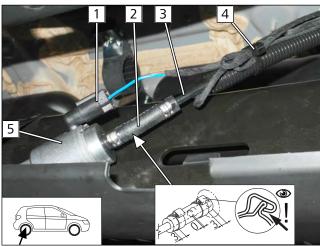
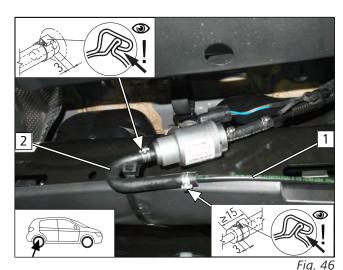


Fig. 45

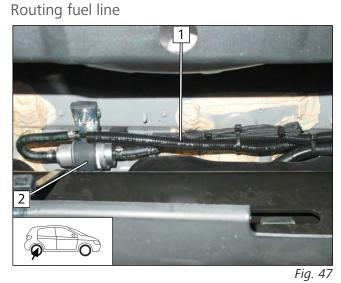
- ▶ Remove fuel pump **5** from the mount to connect it.
 - 1 Fuel pump wiring harness, connector X7 mounted
 - 2 Hose section, Ø10 clamp [2x]
 - **3** Heater fuel line
 - 4 Attach the rest of the wiring harness with a cable tie





- 1 Fuel line of FuelFix
- 2 180° moulded hose, Ø10 clamp [2x]

stings final line



- ▶ Thread fuel line of FuelFix through mount 2, reinstall the fuel pump in mount 2.
- ▶ Route corrugated tube 1 with fuel line to the tank fitting and attach with cable ties.

9.2 Installing FuelFix

View of drilling template

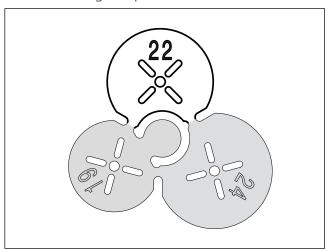
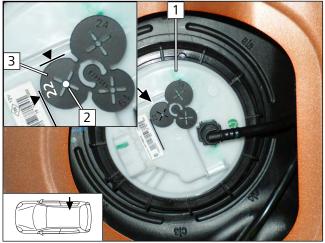


Fig. 48



Work steps F1, F2

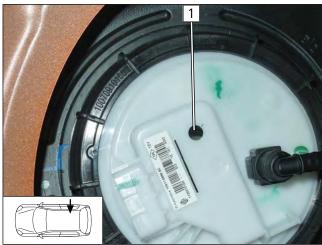


Observe the installation instructions of the tank extracting device.

- ▶ Position template 3 at the markings as shown.
 - 1 Tank fitting
 - **2** Copy hole pattern

Fig. 49

Work step F3





DANGER

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

1 Hole made with provided drill



Work steps F4, F5

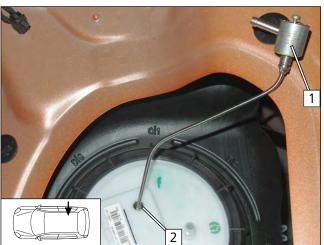


Fig. 51

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

17/07/2020 Renault Captur 26 1328027A_EN



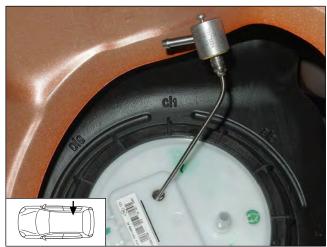


Fig. 52



Fig. 53

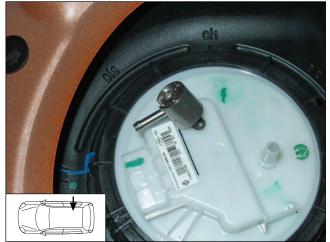
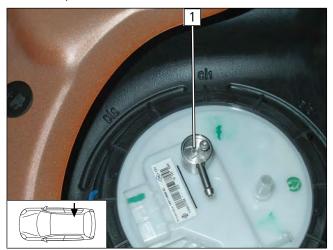


Fig. 54



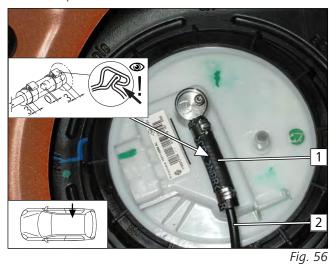
Work steps F5.3, F5.4



► Align FuelFix **1** as shown.

Fig. 55

Work step F6



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

Work step F7

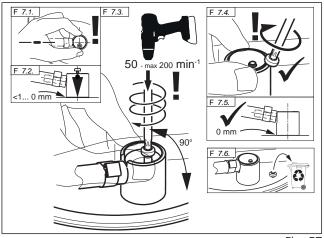


Fig. 57

DANGER

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

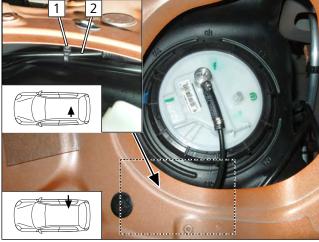


Work step F8



► Ensure firm seating of FuelFix.





▶ Attach fuel line 2 with cable tie 1 to original vehicle fuel line.

Fig. 59

17/07/2020 Renault Captur 1328027A_EN 29



10 Combustion air

Removing insulation mat

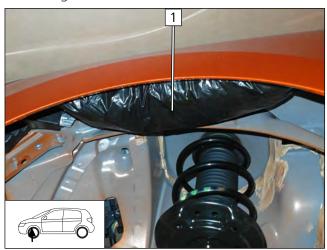


Fig. 60

Shortening perforated bracket

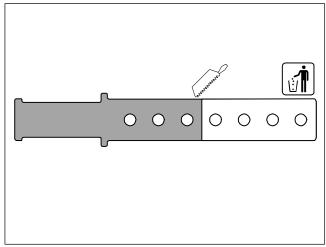


Fig. 61

Installing perforated bracket

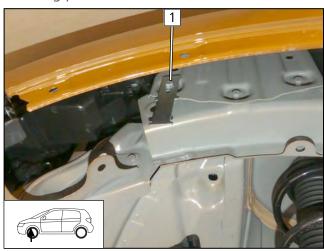


Fig. 62

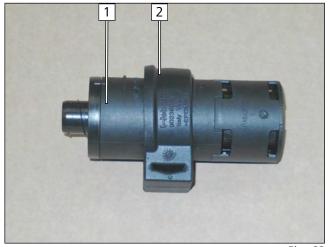
1 Insulation mat

▶ Remove original vehicle bolt at position 1

1 M6x25 bolt, spring lock washer, shortened perforated bracket, spacer (8), original vehicle hole



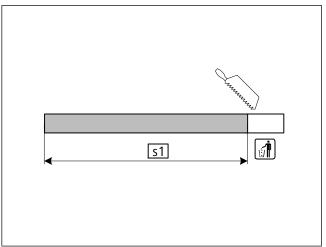
Premounting combustion air intake silencer



- 1 Combustion air intake silencer
- **2** Combustion air intake silencer mount

Fig. 63

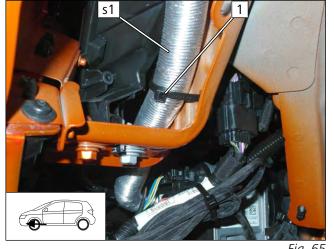
Cutting combustion air intake pipe to length



s1 380

Fig. 64

Mounting combustion air intake pipe





Observe the installation instructions of the combustion air intake silencer.

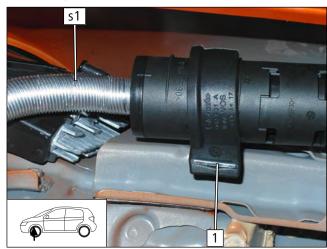
31

▶ Mount combustion air intake pipe **s1** onto HG, route through opening and fasten using cable tie **1** and threading it through original vehicle hole.

Renault Captur 17/07/2020 1328027A_EN



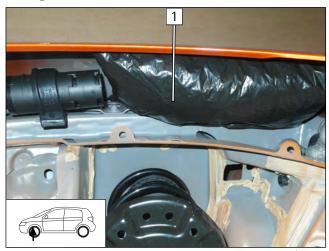
Mounting combustion air intake silencer



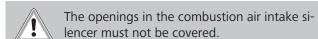
▶ Mount combustion air intake silencer onto combustion air intake pipe **s1**, slide combustion air intake silencer mount onto perforated bracket **1**.

Fig. 66

Gluing on insulation mat







1 Insulation mat



11 Coolant

11.1 Hose routing diagram

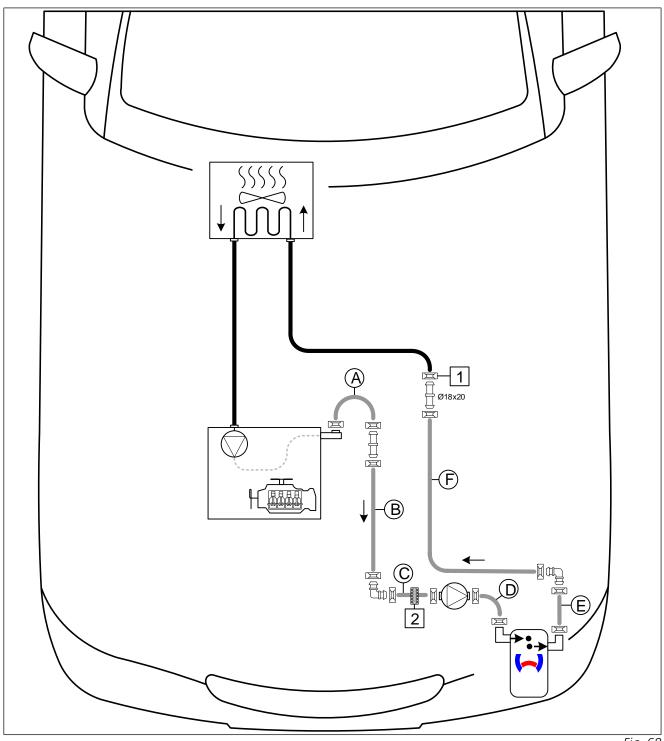


Fig. 68

All spring clips without a specific designation $\boxed{}$ = \varnothing 25

- 1 Original vehicle spring clip
- 2 Black (sw) rubber isolator



11.2 Coolant circuit installation

Connection of hose © to the coolant pump

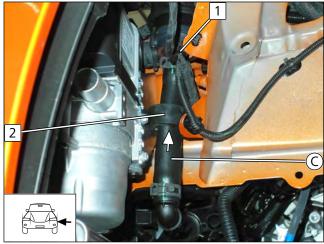


Fig. 69

- Connection of hose **E** to HG/OUT

Fig. 70

Cutting point

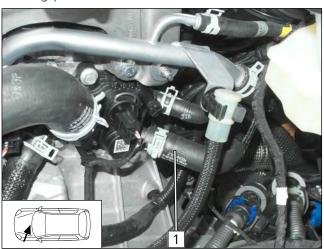


Fig. 7

- 1 Coolant pump inlet
- 2 Align black (sw) rubber isolator with HG bracket and earth support point

▶ Disconnect engine outlet/heat exchanger inlet hose 1 from engine outlet connection piece. Original vehicle spring clip will be reused.



Engine outlet/heat exchanger inlet connection

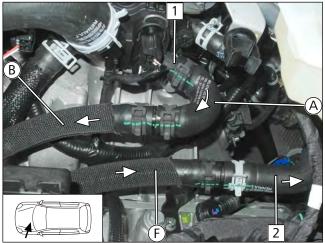


Fig. 72

- 1 Engine outlet connection
- 2 Heat exchanger inlet hose with original vehicle spring clip

Fastening hoses **B** and **F**

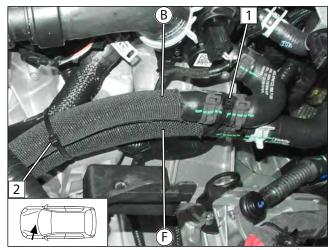


Fig. 73

- 1 Cable tie around hoses **B** and **F**
- 2 Cable tie around hoses **B**, **F** and original vehicle hose

Connecting and fastening hoses (\mathbf{B}) and (\mathbf{F})



Fig. 74

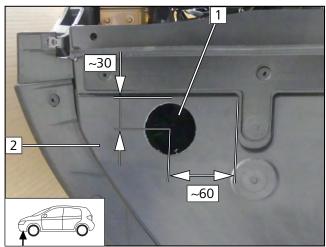
- ► Connect hose **(B)** to hose **(C)**.
- ► Connect hose **F** to hose **E**.
 - 1 Hose bracket around hose **(F)** and original vehicle hose
 - 2 Cable tie around hoses **B** and **F**
 - 3 Hose bracket around hose **B** and original vehicle hose



12 Exhaust

12.1 Mounting exhaust end fastener

Work steps E1, E2



Observe the EFIX installation instructions.

- 1 Hole
- 2 Underride protection

Fig. 75

Work step E3

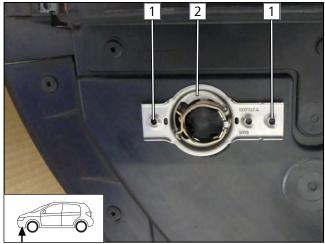


Fig. 76

Work step E4

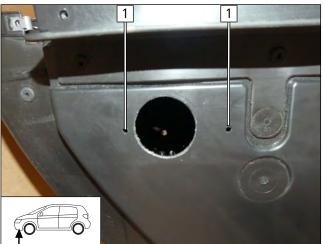


Fig. 77

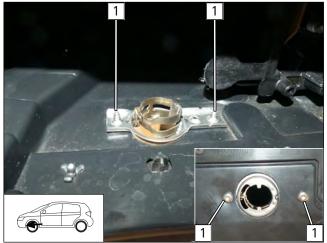
1 Copy hole pattern

2 EFIX

1 Hole



Work step E5

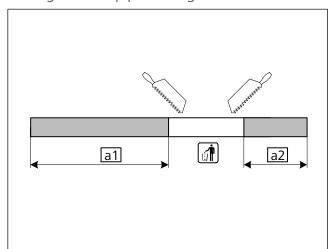


1 5x13 self-tapping screw

Fig. 78

12.2 Mounting exhaust pipe

Cutting exhaust pipe to length



a1 240

a2 260

Fig. 79

Mounting exhaust pipe **a1**

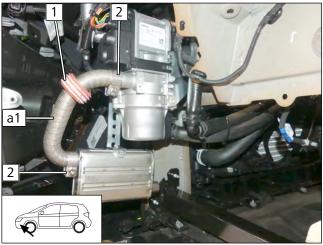
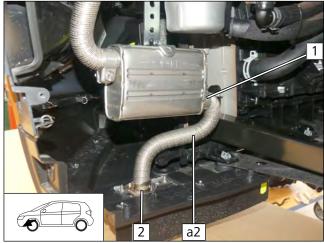


Fig. 80

- 1 Spacer bracket
- 2 Hose clamp



Mounting exhaust pipe **a2**



2 EFIX

1 Hose clamp

Fig. 81

Preparing wheel well trim insulation



► Cut insulation **1** as shown.



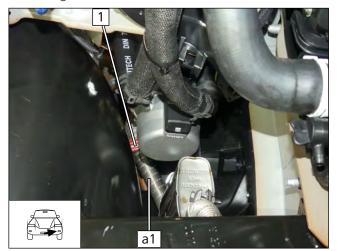
Fig. 82

- ► Cut heat protection film 1 in half and glue onto wheel well trim as shown.
- ► Fold insulation as shown and fasten using suitable means (e.g. staples 2).

Fig. 83



Checking distance



▶ Install wheel well trim.



Ensure sufficient distance between exhaust pipe **a1** and wheel well trim, correct if necessary.



1 Align spacer bracket with wheel well trim

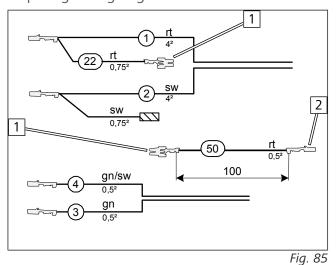
Fig. 84



13 Electrical system of passenger compartment

13.1 Electrical system preparation

Preparing / assigning wires





Wire sections retain their numbering in the entire document.

- 1 Flat spring contact
- **2** Female connector
- 1 Red (rt) wire of fan wiring harness
- 2 Black (sw) wire of fan wiring harness
- (3) Green (gn) wire of PWM control wiring harness
- Green/black (gn/sw) wire of PWM control wiring harness

Assembling PWM GW and RSH sockets, connecting wires

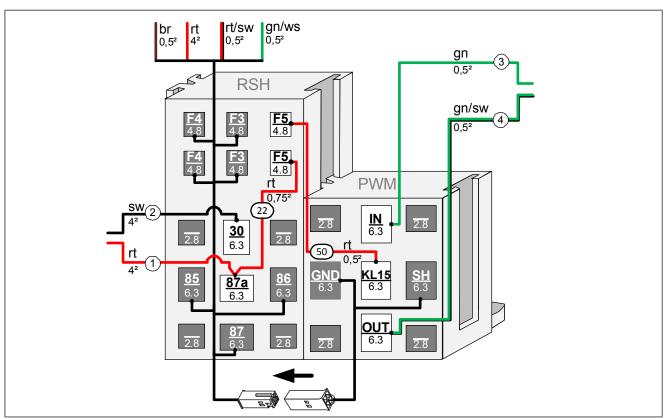
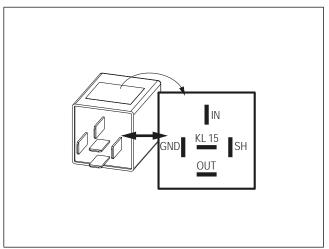


Fig. 86



View of PWM GW

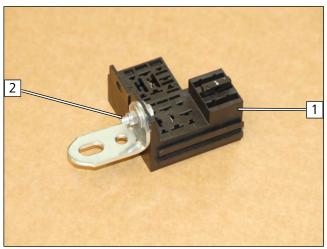


► Check PWM GW settings when starting up the heater and adjust if necessary.

Parameter	Setting
Duty cycle	60%
Frequency	500Hz
Voltage	not relevant
Function	Low side

Fig. 87

Mounting angle bracket on RSH



- 1 RSH
- 2 M5x16 bolt, large diameter washer, angle bracket, RSH, large diameter washer, nut

Fig. 88

Mounting relay K1, PWM GW as well as fuses F4 and F5

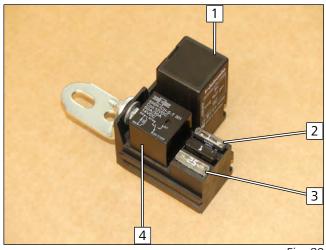


Fig. 89

- 1 PWM GW
- 2 1A fuse F5
- **3** 25A fuse F4
- 4 Relay K1



13.2 Wiring diagram



Interactive wiring diagram with WD Code 71829 at https://my.webasto.com

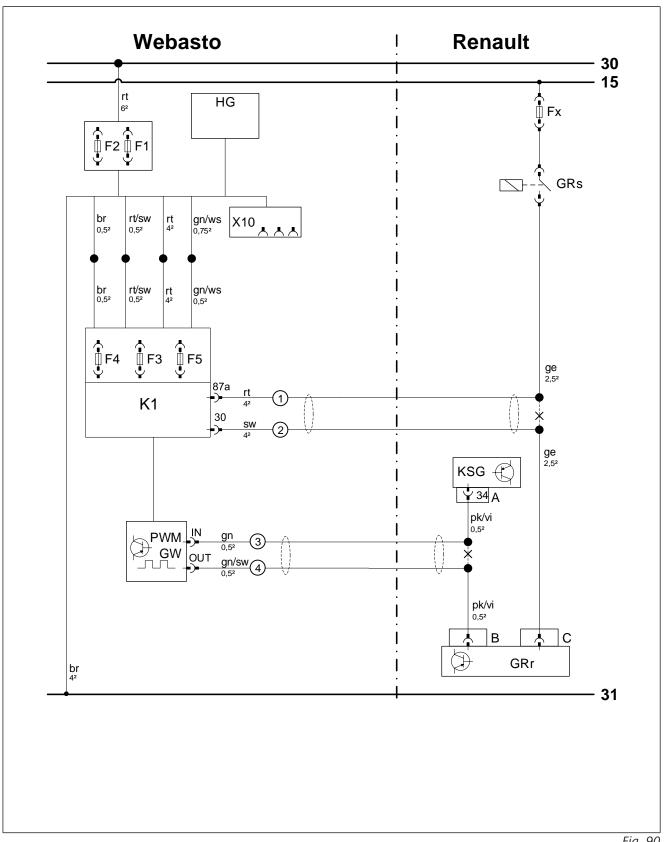


Fig. 90

42 1328027A_EN 17/07/2020 Renault Captur



Legend to wiring diagram



The vehicle connector and component designations are freely chosen by Webasto. Cable colours may vary.

Vehicle components		Symbols	
Abbreviation	Component	Abbreviation	Explanation
Fx	Fuse	×	Cutting point
GRs	Fan relay		
KSG	Air-conditioning control unit		
А	KSG connector		
GRr	Fan controller		

Webasto components			Cable colours	
Abbreviation	Component	Abbreviation	Colour	
А	Male plug for CLR module wiring harness	bg	beige	
В	Female plug for CLR module wiring harness	bl	blue	
С	Male plug for adapter wiring harness	br	brown	
D	Female plug for adapter wiring harness	dbl	dark blue	
Е	Male plug for Plug&Play wiring harness	dgn	dark green	
F	Female plug for Plug&Play wiring harness	ge	yellow	
CCL GW	Micro Gateway CAN CAN LIN	gn	green	
CL GW	Micro SPS CAN / WBus (Gateway CAN LIN)	gr	grey	
CLR	CAN LIN Rxx (cold start module)	hbl	light blue	
D1	Diode	hgn	light green	
D2	Diode group	la	salmon	
F0	Additional fuse for power supply	or	orange	
F1	Heater main fuse	pk	pink	
F2	Passenger compartment fan controller main fuse	rt	red	
F3	Control element fuse	sw	black	
F4	Fan controller fuse	vi	violet	
F5	Additional fuse	WS	white	
HG	Heater TT-Evo			
K1	Relay K1			
K2	Relay K2			
K3	Relay K3			
LA	Power adapter			
LIN GW	LIN Gateway			
MV	Solenoid valve			
PWM GW	LIN Gateway / PWM (pulse width modulator)			
RSH	Relay and fuse holder of passenger compartment			
RTD	Temperature sensor			
X10	Female plug for control element			



13.3 Instrument panel trim removal notes

Removing shift lever trim



▶ Detach shift lever frame 1 with the shift lever boot and pull upwards. (See next Fig.)

Fig. 91

Dismantling centre console frame

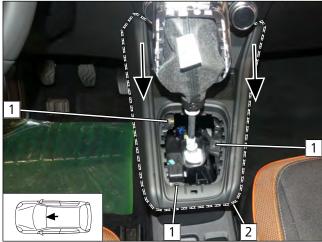


Fig. 92

► Undo screws 1.

▶ Remove frame 2 by loosening it in the opposite direction of travel.

Removing trim

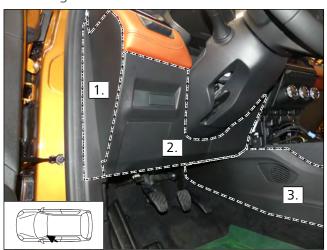


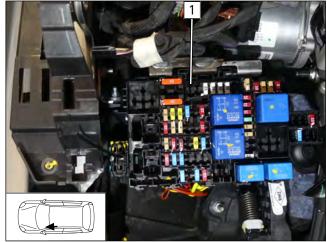
Fig. 93

▶ Remove the marked pieces of trim in the indicated order as shown.



13.4 Fan controller

Detaching fuse and relay box



1 Detach the fuse and relay box

Fig. 94

RSH installation location



1 M6x16 bolt, original vehicle hole, lock washer



1 M6x16 bolt, lock washer, angle bracket, flanged nut

Renault Captur 17/07/2020 1328027A_EN 45



Connecting same colour wires of wiring harnesses

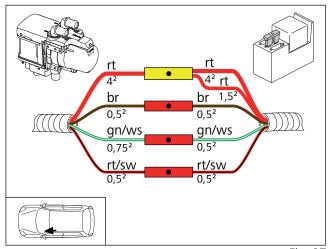


Fig. 97

View of fuse and relay box

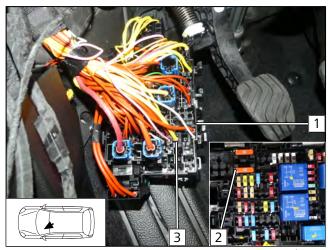


Fig. 98

(8)

Produce all following electrical connections as shown in the system wiring diagram.

- 1 Fuse and relay box
- **2** Fuse 40A

Connecting fan controller

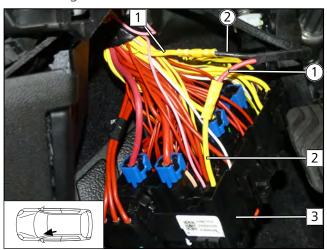


Fig. 99

- 1 Yellow (ge) wire of GRr
- 2 Yellow (ge) wire of fuse and relay box
- **3** Fuse and relay box
- 1 Red (rt) wire of K1/87a fan wiring harness
- 2 Black (sw) wire of K1/30 fan wiring harness



Connecting air-conditioning control unit

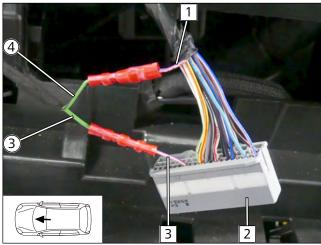


Fig. 100

- 1 Pink/violet (pk/vi) wire
- **2** Air-conditioning control unit connector
- 3 Pink/violet (pk/vi) wire of KSG connector A/ pin 34
- 3 Green (gn) wire of PWM GW/IN wiring harness from PWM control
- Green/black (gn/sw) wire of PWM GW/OUT wiring harness from PWM control

13.5 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.



Final Work 14



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.

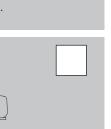


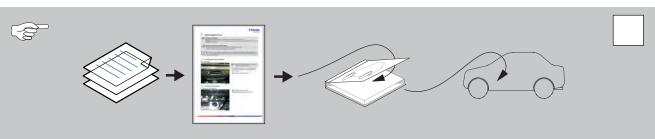
- ▶ Program MultiControl CAR, teach Telestart transmitter
- ▶ Make settings on A/C control panel according to the 'Operating Instructions'.
- ▶ Initial operation and functional test
- ▶ Affix 'Switch off parking heater before refueling' caution label in area of filler neck



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.





1328027A_EN 17/07/2020 Renault Captur 48

These are the original instructions. The German language is binding.

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

Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany

Company address: Friedrichshafener Str. 9 82205 Gilching Germany

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

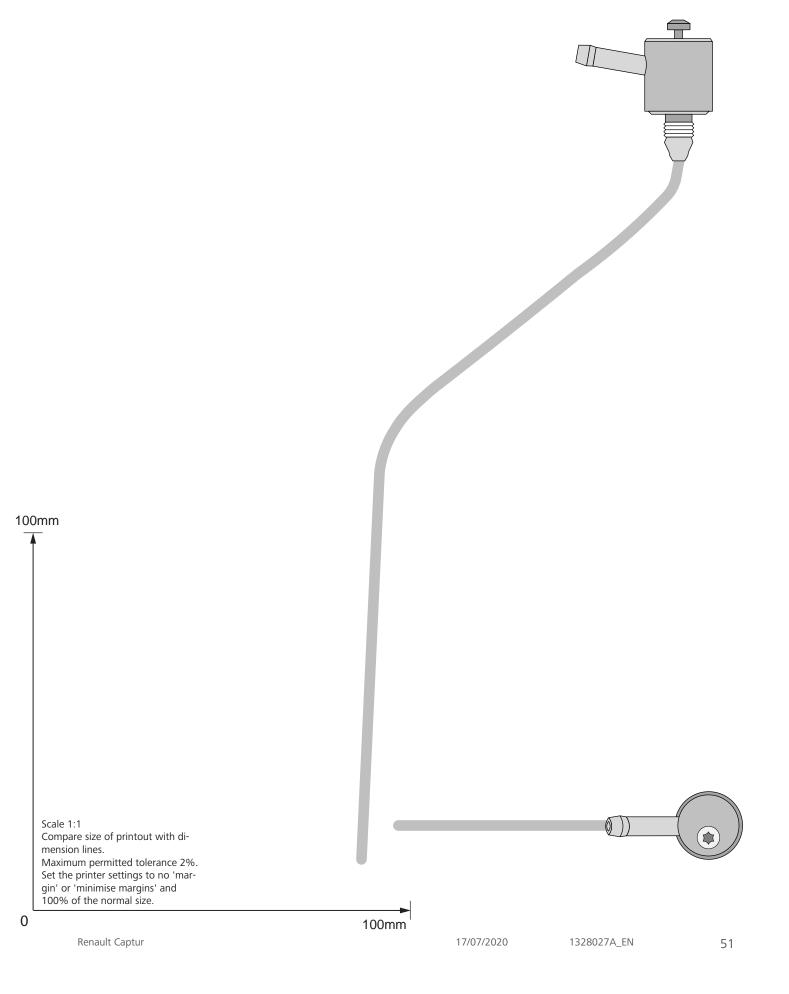
CE

WWW.WEBASTO.COM

So Renault Captur



15 FuelFix template



52 Renault Captur



Operating instructions 16



Information regarding the heating time:

We recommend matching the heating time to the driving time (heating time = driving time) Example: for a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switchon time of 20 min.



Vehicles with passenger compartment monitoring:

Further information can be found in the vehicle operating instructions.

▶ Deactivate passenger compartment monitoring for the heating operation



Note for parking heater function

Your vehicle is equipped with a passenger compartment and engine preheating unit.



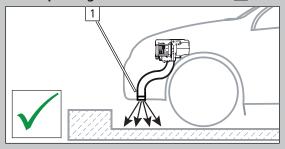
Note for current consumption in case of parking heating mode

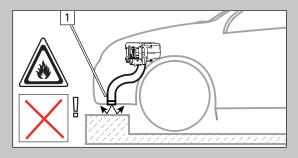
Depending on the vehicle model, there may be an increased quiescent current consumption message in the vehicle information system during or directly after operation in parking heating mode.

▶ This is not an error that can affect the vehicle on a technical level.



Notes on parking heater exhaust outlet 1





16.1 A/C control panel settings

Automatic A/C control panel

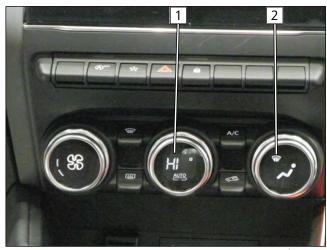


Fig. 101

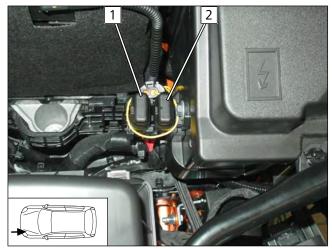


Before parking the vehicle, make the following settings:

- **1** Set temperature to 'HI'
- 2 Air outlet to windscreen

16.2 Installation location of fuses

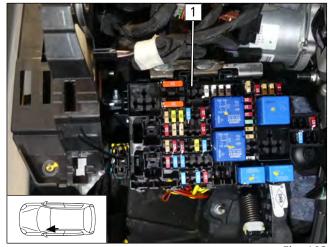
Fuses in engine compartment



- 1 F1 20A heater main fuse
- **2** F2 30A passenger compartment main fuse

Fig. 102

Fuses in passenger compartment



1 Installation location of passenger compartment relay and fuse holder behind the fuse and relay box

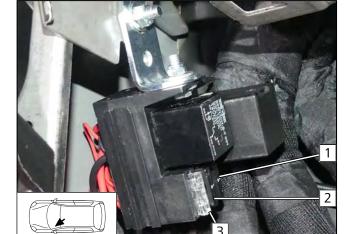


Fig. 103

- 1 F5 1A additional fuse
- **2** F3 1A control element fuse
- **3** F4 25A fan controller fuse

Fig. 104