



Water Heater

Thermo Top Evo Parking Heater



With FuelFix

Installation Documentation Citroen C3 / DS3

Validity

Manufacturer Model		Type EG BE No. / ABE	
Citroen	C3 / DS3	S	e2 * 2007 / 116 * 0003 *

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6 blue HDI	Diesel	SG	73	1560	BH02
1.6 blue HDI	Diesel	SG	88	1560	BH01

SG = manual transmission

From model year 2016 Left-hand drive vehicle

Ident. No.: 1324600A_EN

Verified equipment variants: Automatic air-conditioning

Xenon headlights Front fog lights

LED daytime running lights

Start - Stop

Not verified: Manual air-conditioning

Headlight washer system

Total installation time: approx. 10.5 hours

Status: 15.02.2016 © Webasto Thermo & Comfort SE

Citroen C3 / DS3

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Necessary Components

- Basic delivery scope of Thermo Top Evo based on price list
- Installation kit with FuelFix for Citroen C3 / DS3 2016 Diesel: 1324599A
- Heater control in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and in consultation with end customer

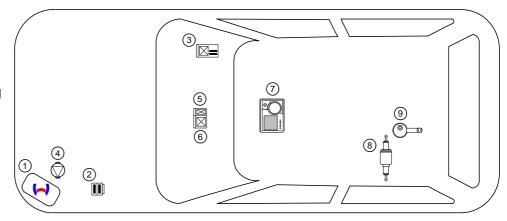
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about ¼ full.
- The installation location of the push button in case of Telestart or Thermo Call should be confirmed with the end customer.
- Depending on the space required and the vehicle manufacturer's instructions, we recommend the use of a vehicle battery with a higher electrical capacity.

Installation Overview

Legend:

- 1. Heater
- 2. Engine compartment fuse holder
- **3**. Passenger compartment relay and fuse holder
- 4. Circulating pump
- 5. Relay K2
- 6. PWM GW
- 7. MultiControl CAR
- 8. Metering pump
- 9. FuelFix



2

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.

Information on Operating and Installation Instructions

1 Important information (not complete)

1.1 Installation and repair



The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.



Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffo-

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel diesel (DIN EN 590) or petrol (DIN EN 228).

The heater may not be cleaned with a high-pressure cleaner.

1.3 Please note

ALWAYS follow all Webasto installation and operating instructions and observe all warnings.

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

Important

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, 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 have to audibly click into place during installation.

Sharp edges should be fitted with rub protection. 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 startup 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.

2 Statutory regulations governing installation

Ident. No.: 1324600A EN

Guidelines	Thermo Top Evo		
Heating Directive ECE R122	E1 00 0258		
EMC Directive ECE R10	E1 04 5627		

Note

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.

Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

Note

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

2.1 Excerpt from ECE regulation 122 (heating system) paragraph 5 for the installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

- 2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.
- 2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

- 2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.
- 2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.
- 2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be
- 2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.
- 2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

- 2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.
- 2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.
- 2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

2.5. Combustion air inlet

- 2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.
- 2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

- 2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle
- 2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

- 2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched
- 2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

Status: 15.02.2016

In multilingual versions the German language is binding.

Citroen C3 / DS3

Information on Validity

This installation documentation applies to Citroen C3 / DS3 Diesel vehicles - for validity, see page 1 - from model year 2016 and later, 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.

Technical Information

Special Tools

- Hose clamp pliers for auto-tightening hose clamps
- · Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 6mm²
- Crimping pliers for cable lug / tab connector 0.5 6mm²
- Torque wrench for 2.0 10 Nm
- · Hose clamping pliers
- · Metric thread-setter kit
- Deep-hole marker
- Webasto Thermo Test Diagnosis with current software

Dimensions

All dimensions are in mm.

Tightening torque values

Mechanical System

- Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm.
- Tightening torque value of 5x15 water connection piece retaining plate bolt = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology.

Explanatory Notes on Document

You will find an identification mark on the outside top right corner of the page in question to provide you with a quick overview of the individual working steps. Special features are highlighted using the following symbols:

Electrical System	7
Coolant Circuit	
Combustion Air	
Fuel	
Exhaust Gas	
Software	

Ident. No.: 1324600A_EN

Specific risk due to electrical voltage.

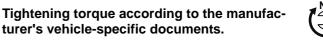
Specific risk of injury or fatal accidents.

Specific risk of fire or explosion.

Reference to the manufacturer's vehicle-specific documents or to the general installation instructions of Webasto components.

Reference to a special technical feature.

Specific risk of damage to components.



The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

Status: 15.02.2016

Citroen C3 / DS3

Preliminary Work

Vehicle



- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- · Depressurise the cooling system.
- Disconnect and completely remove the battery together with the carrier.
- Detach the control unit and put it aside.
- Remove the charge-air tube.
- Detach the wheel well trim on the right and left.
- Remove the bumper trim.
- Remove the right-hand underbody trim.
- Remove the front underride protection.
- Remove the left-hand headlight.
- Remove the instrument panel trim in the footwell on the driver's side.
- Remove the instrument panel trim on the left (only in case of Telestart T100 HTM).
- Remove the wheel/A/C control panel in accordance with the manufacturer's instructions.

The following work should only be performed during the corresponding installation sequence:

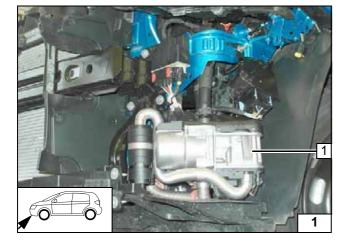
- Remove the rear bench seat.
- Open the right-hand tank-fitting service lid.

Heater

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







Heater Installation Location

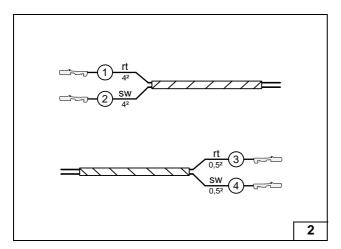
1 Heater

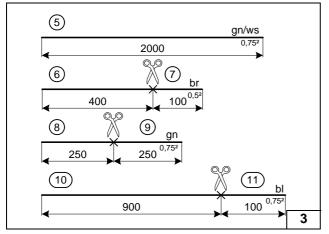
Installation location

Ident. No.: 1324600A_EN Status: 15.02.2016 © Webasto Thermo & Comfort SE

Ident. No.: 1324600A_EN







Preparing Electrical System

Wire sections retain their numbering in the entire document.

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

- 1 Red (rt) wire of fan wiring harness
- 2 Black (sw) wire of fan wiring harness
- 3 Red (rt) wire from wiring harness of PWM control
- 4 Black (sw) wire from wiring harness of PWM control

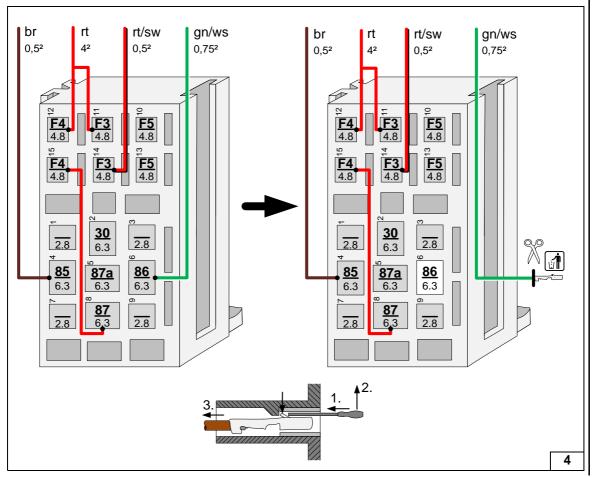
Cut off 1700mm of protective sleeving.
Pull green/white (gn/ws) wire ⑤ into
1700mm protective sleeving.
Pull wire section ⑩ into 800 mm protective sleeving.



Assigning wires



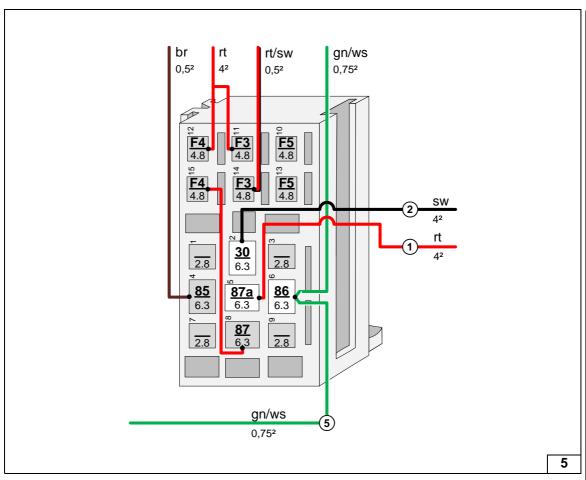
Cutting to length / assigning wires



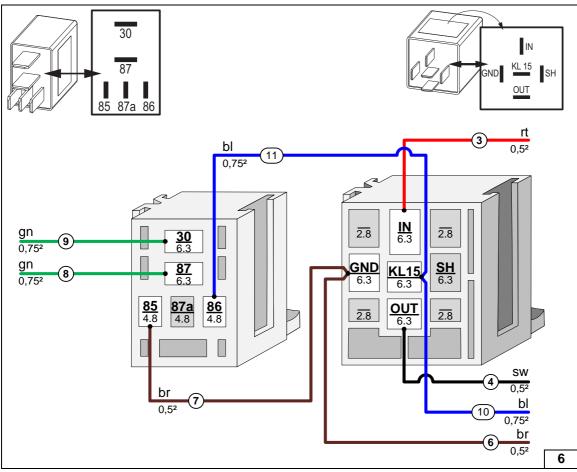
Status: 15.02.2016

Preparing passenger compartment relay and fuse holder





Connecting wires to passenger compartment relay and fuse holder

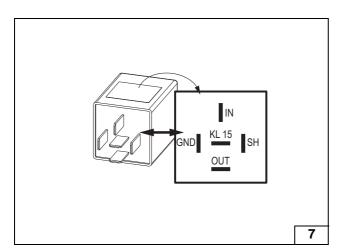




Connecting wires to PWM GW socket and relay K2

7





Check the PWM Gateway settings when starting up the heater and adjust if neces-

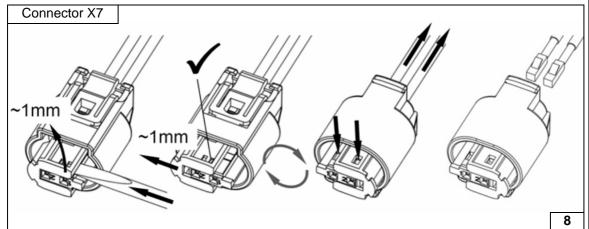
Settings:

Duty cycle: 27%
Frequency: 400Hz
Voltage: not relevant
Function: Low side



View of PWM GW





Status: 15.02.2016

Dismantling metering pump connector



Electrical System

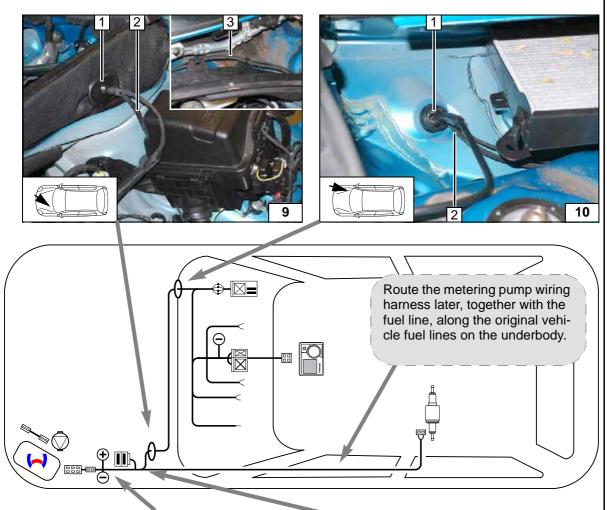


Wiring harness routing

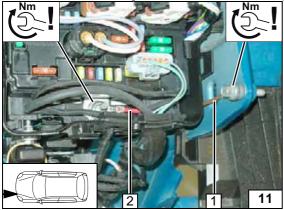
- 1 Coolant reservoir protective rubber plug
- 2 Wiring harnesses of heater, heater control
- 3 Route heater, heater control wiring harnesses to the right side of the vehicle

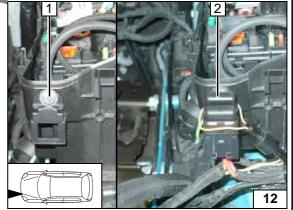
Wiring harness pass through

- 1 Protective rubber plug
- 2 Wiring harnesses of heater, heater control



Wiring harness routing diagram





Positive and earth wire

- 1 Earth wire on original vehicle earth support point
- 2 Positive wire on original vehicle positive support point

Engine compartment fuse holder

- 1 6mm dia. hole; M5x16 bolt, large diameter washer [2x], retaining plate of fuse holder, nut
- 2 Fuses F1-2

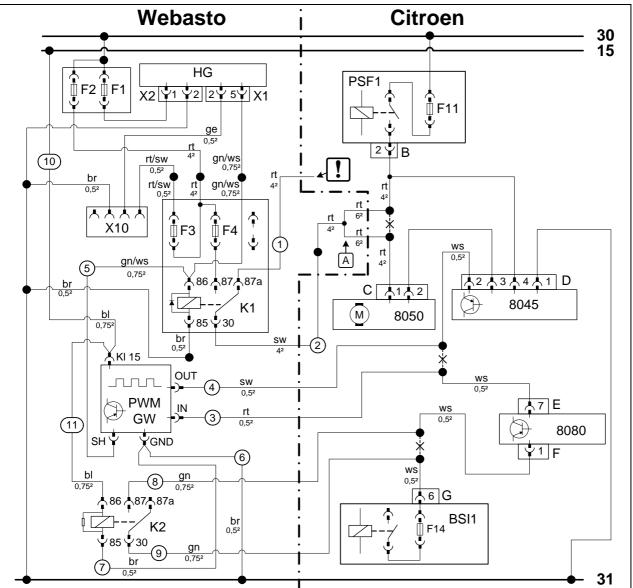


7

◎ |

gram

Fan Controller



7 br (9) 911 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Webasto (components	Vehicle	e components	Colou	rs and symbols
HG	TT-Evo heater	PSF1	Engine compartment fuse	rt	red
X1	6-pin heater connector		box	ws	white
X2	2-pin heater connector	F11	Fuse	SW	black
F1	20A fuse	В	2V connector NR	br	brown
F2	30A fuse	8045	Fan controller	bl	blue
F3	1A fuse	D	4V connector NR	gn	green
F4	25A fuse	8050	Fan motor	ge	yellow
X10 4-pin connector of heater		С	2V connector NR		
	control	8080	A/C control unit		
K1	Fan relay	Е	26V connector JN		
Α	Power adapter	F	6V connector NR		
PWM GW	Pulse width modulator	BSI1	Central switching unit		
K2	Additional relay	F14	Fuse		
PWM GW	settings:	G	10V connector NR		
Duty cycle	: 27%				Insulate wire end and tie
Frequency	: 400Hz			ا [back
Voltage:	not relevant			Х	Cutting point
Function:	Low side		Wiring colours may vary		colours may vary.

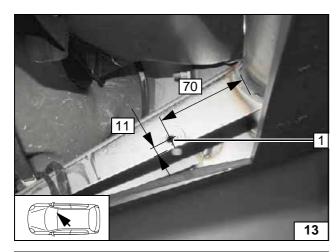


Wiring dia-

Legend

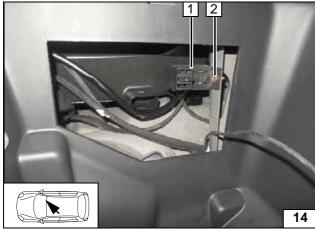
10





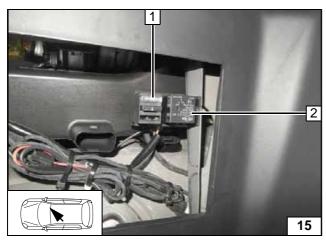
1 5mm dia. hole

Preparing passenger compartment relay and fuse holder installation



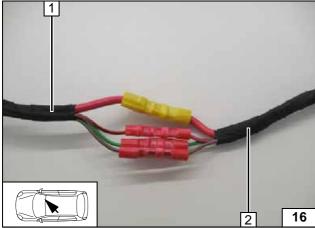
- 1 Passenger compartment relay and fuse holder
- 2 6x13 self-tapping screw

Installing passenger compartment relay and fuse holder



- 1 Fuse F4
- 2 Relay K1

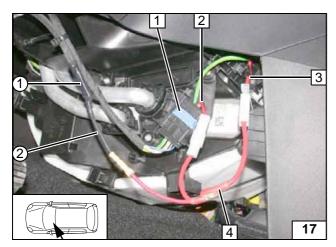
Installing relay K1 and fuse F4



- 1 Passenger compartment relay and fuse holder wiring harness
- 2 Heater wiring harness

Connecting same colour wires of wiring harnesses



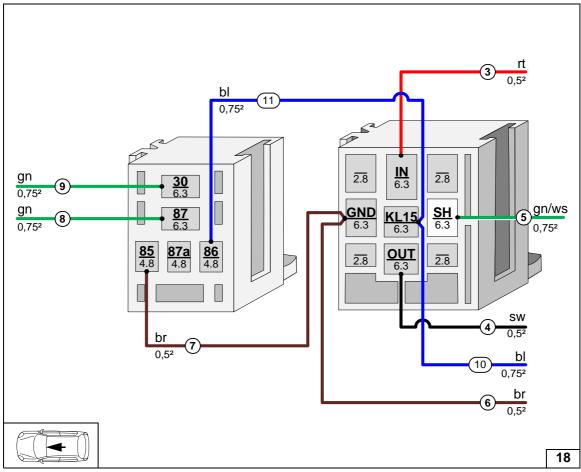


Connection on 6-pin connector IC26 1. Insulate red (rt) wire ① of K1/87a and tie back.

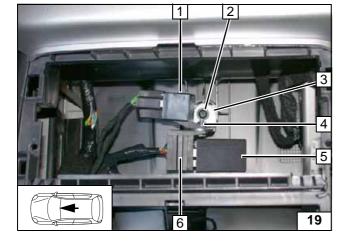
- 2 Red (rt) wire of connector IC26, pin 3
- 3 Red (rt) wire of fan motor
- 4 Power adapter
- 2 Black (sw) wire of K1/30



Connecting fan motor



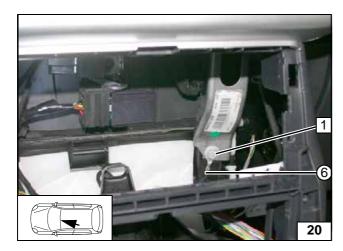
Connecting wire to PWM GW socket in passenger compartment



- 1 Relay K2
- 2 Original vehicle bolt
- 3 Angle bracket
- **4** M5x16 bolt, large diameter washer, flanged nut
- 5 PWM GW installed
- 6 PWM GW socket

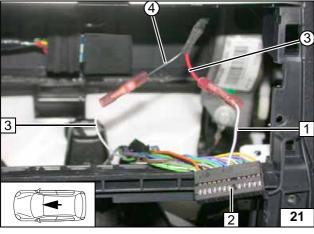
Installing relay K2 and PWM GW





- 1 Original vehicle bolt
- 6 Brown (br) wire of PWM GW/85

Relay K2 and PWM GW earth connection

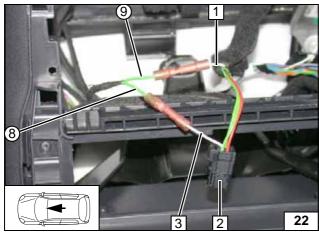


Connection on 26-pin connector **2** from A/C control panel.



- 1 White (ws) wire 26-pin connector pin 7
- 3 White (ws) wire of fan controller
- 3 Red (rt) wire from wiring harness of PWM control
- 4 Black (sw) wire from wiring harness of PWM control

Connecting PWM GW

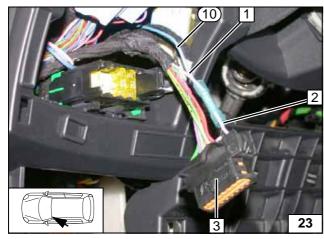


Connection on 6-pin connector **2** from A/C control panel.



- 1 White (ws) wire of BSI
- 3 White (ws) wire of 6-pin connector Pin1
- 8 Green (gn) wire of K2/87
- 9 Green (gn) wire of K2/30

Connecting relay K2



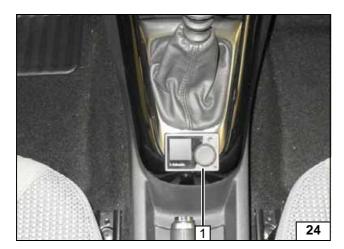
Connection on 16-pin OBD connector 3.



- 1 White (ws) wire of Terminal 15
- 2 White (ws) wire of 16-pin OBD connector Pin1
- 10 Blue (bl) wire of PWM GW/15

Connecting terminal 15



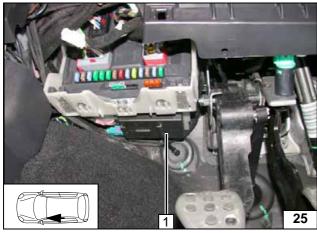


MultiControl CAR Option

1 MultiControl CAR



Installing MultiControl CAR

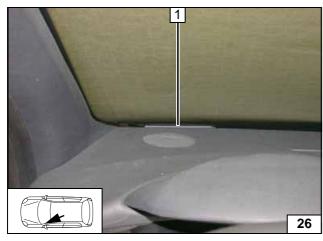


Remote Option (Telestart)

Fasten receiver **1** with double-sided adhesive tape.

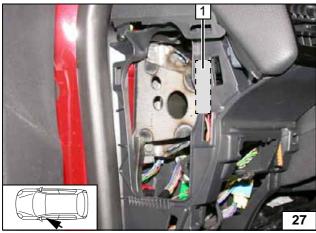


Installing receiver



1 Aerial





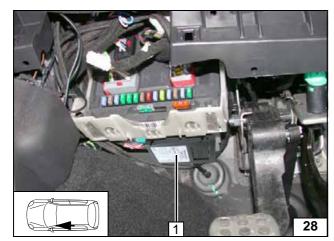
Temperature sensor T100 HTM

Fasten temperature sensor 1 behind the instrument panel trim on the left with double-sided adhesive tape.



Installing temperature sensor



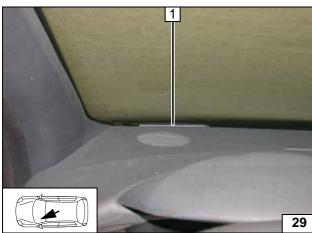


ThermoCall Option

Fasten receiver **1** with double-sided adhesive tape.



Installing receiver



1 Aerial (optional)

Installing aerial



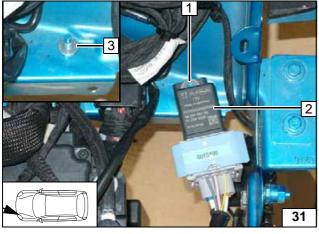


Preparing Installation Location

Dismantle control unit with bracket 1.



Dismantling control unit

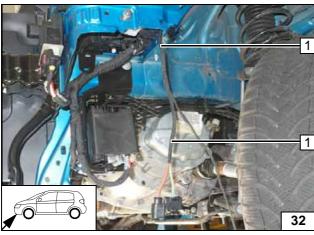


Remove relay 2 at position 1 and install flanged nut 3 with flange upwards. Install relay as shown.

2

1 Original vehicle nut

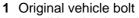
Positionning relay



Route wiring harness of heater 1 to installation location.



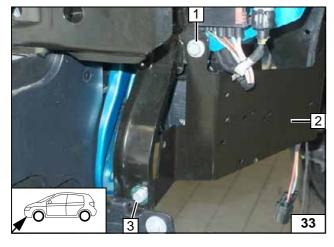
Routing wiring harness



- 2 Install bracket loosely
- 3 M8x20 bolt, flanged nut, existing hole

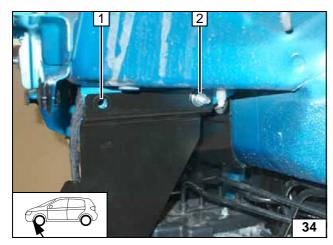
Installing bracket loosely

16

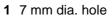


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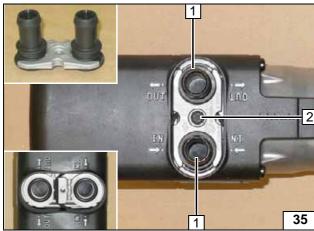
Remove bracket after copying hole pattern at position 1.



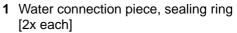
2 M6x20 bolt, flanged nut, existing hole



Copying hole pattern



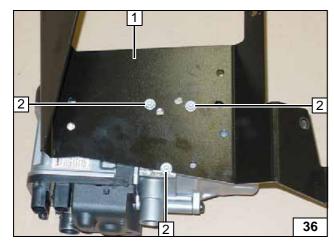
Preparing Heater



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

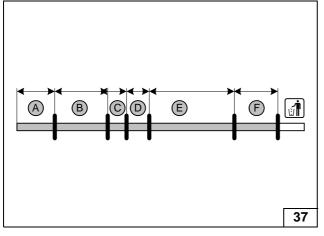


Installing water connection piece



- 1 Bracket
- 2 5x13 self-tapping bolt [3x]

Premounting heater



Ident. No.: 1324600A_EN

A = 220 **B** = 570 **C** = 60 **D** = 80 **E** = 750 **F** = 210

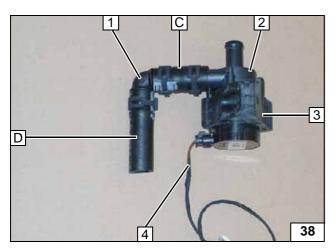
Status: 15.02.2016

Cutting hoses to length

4

3



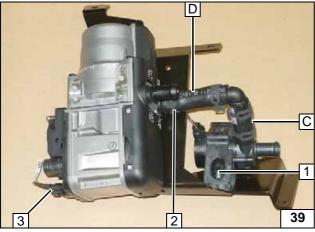


All spring clips = 25mm dia.!

- 1 90°, 18x18 connecting pipe
- 2 Circulating pump
- 3 Circulating pump mount
- 4 Circulating pump wiring harness

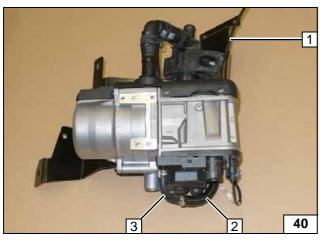


Premounting circulating pump



- 1 M6x25 bolt, flanged nut
- 2 25mm dia. spring clips
- 3 Connector of circulating pump wiring harness

Installing circulating pump



- 1 Fuel line
- 2 250mm long corrugated tube
- 3 90° moulded hose, 10mm dia. clamps [2x]

Installing fuel line



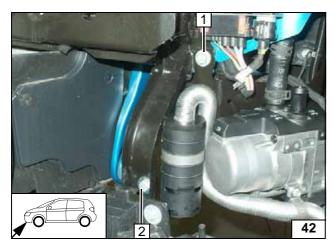
- 1 5x13 self-tapping bolt, p-clamp
- 2 Silencer
- 4 Combustion air pipe
- 5 M5x16 bolt, flanged nut

Installing combustion air pipe

18

Ident. No.: 1324600A_EN Status: 15.02.2016 © Webasto Thermo & Comfort SE

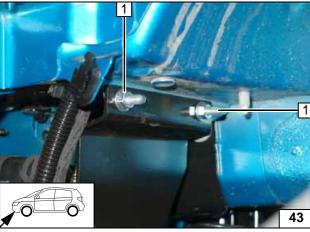




Installing Heater

- Original vehicle bolt
 M8x20 bolt, large diameter washer, flanged nut, existing hole

Installing heater



1 M6x20 bolt, flanged nut [2x each]

Installing heater

Citroen C3 / DS3



Fuel



Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

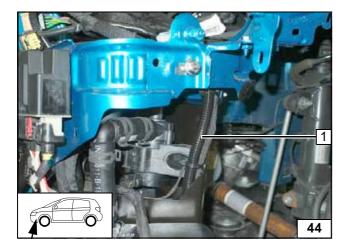
Catch any fuel running off in an appropriate container.

!

Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.

Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.



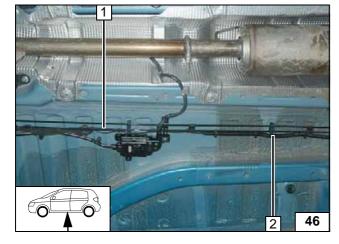
1 Fuel line and wiring harness of metering pump in corrugated tube

Routing of lines in engine compartment



1 Fuel line and wiring harness of metering pump in corrugated tube

Routing lines to underbody



- 1 Fuel line and metering pump wiring harness
- 2 Fuel line and wiring harness of metering pump in corrugated tube

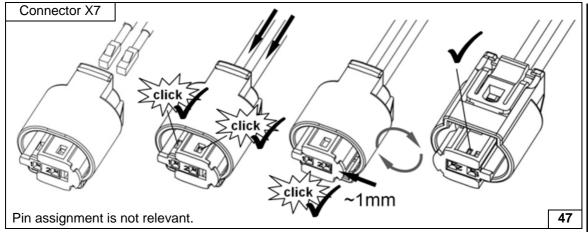
Routing lines

20

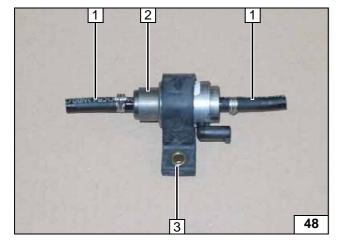
Ident. No.: 1324600A_EN Status: 15.02.2016 © Webasto Thermo & Comfort SE





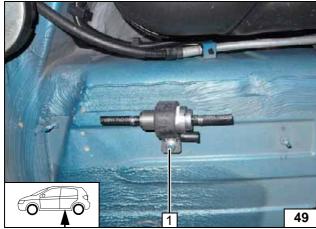


Completing metering pump connector



- 1 Hose section, 10mm dia. clamp
- 2 Metering pump
- 3 Metering pump mount

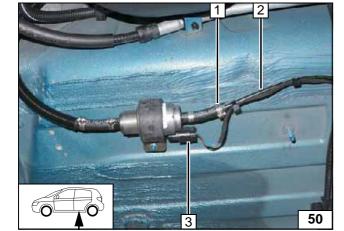
Premounting metering pump



1 Original vehicle stud bolt, flanged nut



Installing metering pump

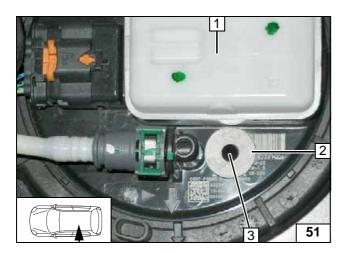


- 1 10 mm dia. clamp [2x]
- 2 Fuel line
- 3 Connector of metering pump wiring harness

Connecting metering pump

21





Installing FuelFix

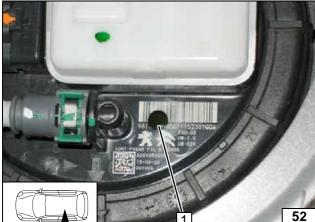
Work steps F1 and F2.

- 1 Fuel tank sending unit
- 2 Position washer with outer dia. d_a = 21.6mm, will be used as a template
- 3 Hole pattern



Copying hole pattern



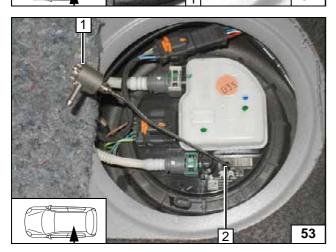


Work step F3.

1 Hole made with provided drill





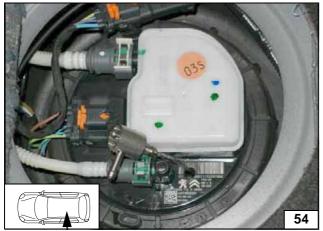


Work steps F4 and F5.

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



Inserting FuelFix

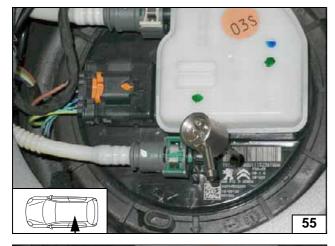


Work step F5.

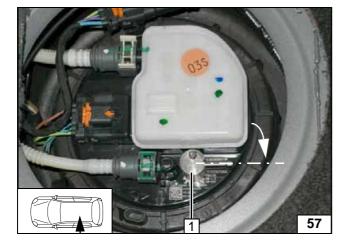
Inserting FuelFix

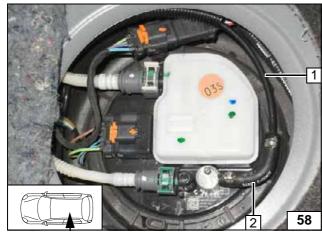
22











Inserting FuelFix

Inserting FuelFix

Work steps F5.3 and F5.4.

Align FuelFix 1 as shown.



Aligning FuelFix

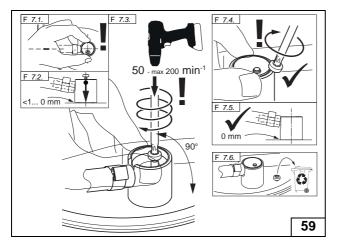
Work step F6.

- 1 Fuel line
- 2 90° moulded hose, 10mm dia. clamp [2x]

Connecting fuel line



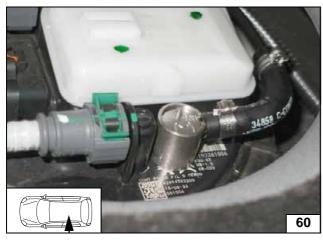




Work step F7.



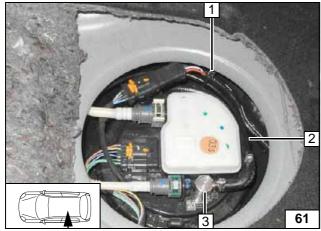
Installing FuelFix



Work step F8.

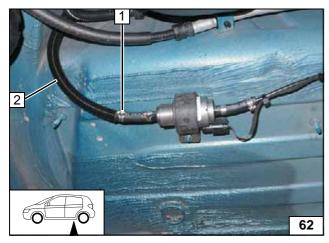
Ensuring firm seating of FuelFix





- 1 Cable tie as tension relief
- 2 Fuel line of FuelFix
- 3 FuelFix installed

Securing fuel line



Ensure sufficient distance from neighbouring components, correct if necessary.





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

Connecting metering pump

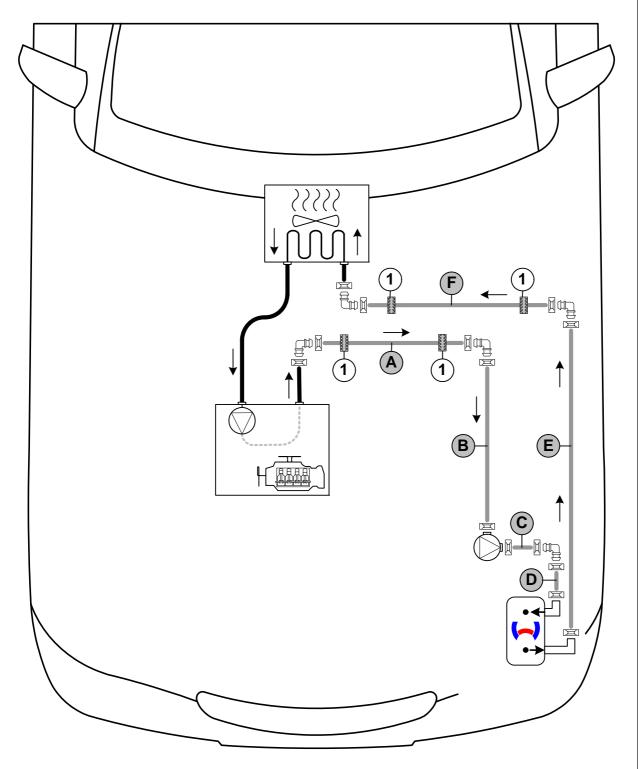


Coolant Circuit



Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses.

The connection should be modelled on an 'inline' circuit and based on the following diagram:



Hose routing diagram

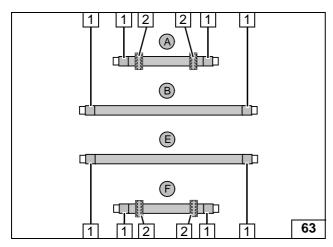
All spring clips without a specific designation $\boxed{}$ = 25 mm dia. **1** = Black (sw) rubber isolator $\boxed{}$ All connecting pipes $\boxed{}$ = 18x18 mm dia.



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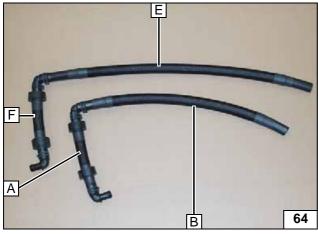
Slide on braided protection hoses and cut to length.



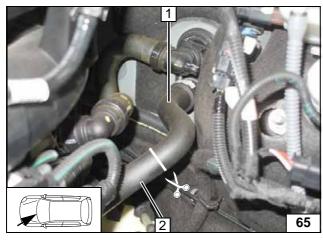
- 1 Cut heat shrink plastic tubing to size, 50mm long [8x]

 2 Black (sw) rubber isolator [4x]

Installing braided protection hoses



Premounting hoses

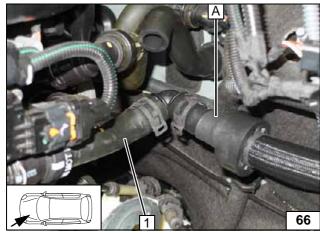


Cut hose of engine outlet/heat exchanger inlet 1 at the marking.



- 1 Heat exchanger inlet hose section
- 2 Engine outlet hose section

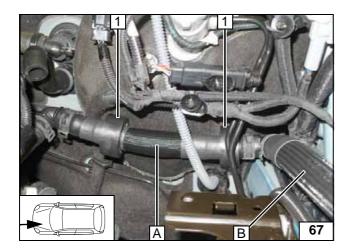
Cutting point



1 Engine outlet hose section

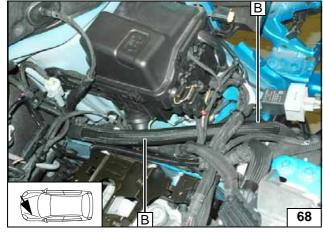
Connecting engine outlet



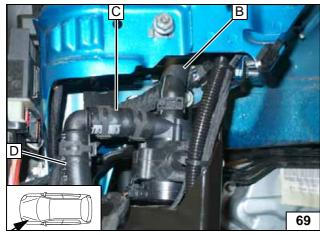


1 Position black (sw) rubber isolator [2x]

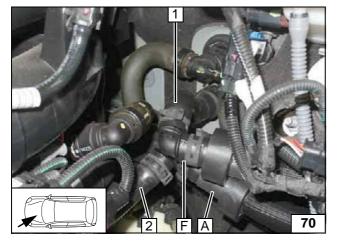
Routing in engine compart-ment



Routing in engine compartment



Connecting circulating pump



Align hoses. Ensure sufficient distance from neighbouring components, correct if necessary.

- 1 Hose of heat exchanger inlet2 Hose of engine outlet

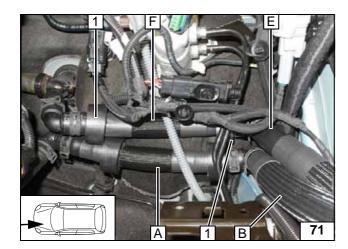


Connecting heat exchanger inlet

27

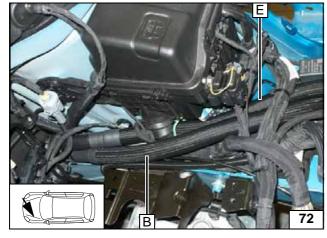
Ident. No.: 1324600A_EN Status: 15.02.2016 © Webasto Thermo & Comfort SE



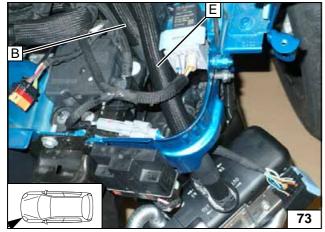


1 Position black (sw) rubber isolator [2x]

Routing in engine compart-ment



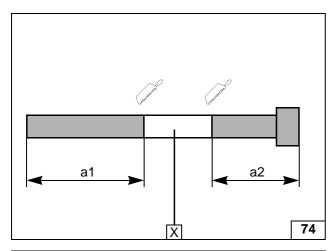
Routing in engine compart-ment



Connecting heater

28





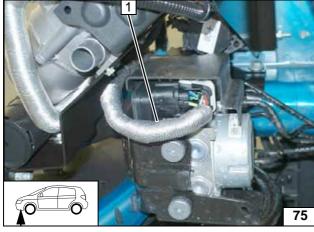
Exhaust Gas

a1 = 300a2 = 300





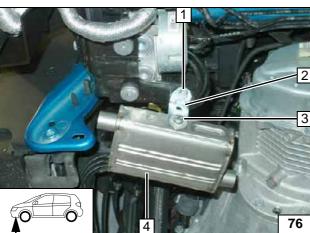
Preparing exhaust pipe



Cut heat protection hose 1 lengthways, install onto original vehicle wiring harness and align.

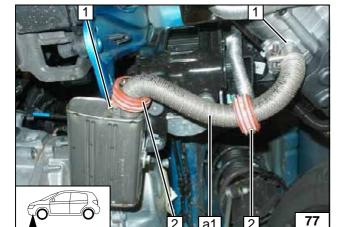


Mounting heat protection hose



- 1 M6x20 bolt, original vehicle hole, flanged nut
- 2 Angle bracket3 M6x16 bolt, spring lockwasher, large diameter washer
- 4 Exhaust silencer

Installing silencer



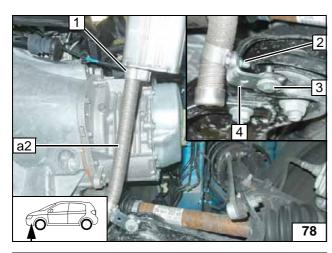
Status: 15.02.2016

Ident. No.: 1324600A_EN

- 1 Hose clamp [2x]
- 2 Spacer bracket [2x]

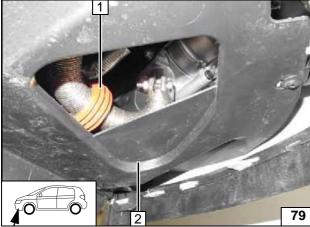
Installing exhaust pipe a1





- 1 Hose clamp
- 2 M6x20 bolt, p-clamp, flanged nut
- 3 M6x20 bolt, large diameter washer [2x], flanged nut, existing hole
- 4 Angle bracket

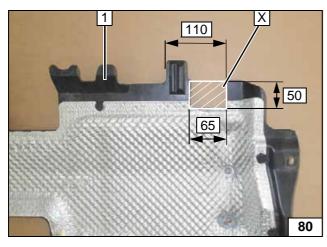
Installing exhaust pipe a2



Install wheel well trim 2. Align spacer bracket 1 with wheel well trim 2.



Aligning exhaust pipe a1

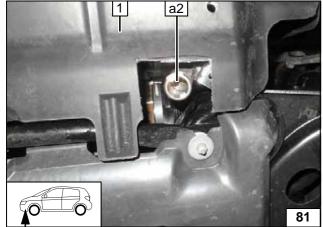


Cut out underride protection 1 at the marking.



X =

Cutting out underride protection



Install underride protection 1. Align exhaust pipe a2 with the centre of the cut-out and flush with underride protection 1. Ensure sufficient distance from neighbouring components, correct if necessary.



Aligning exhaust pipe a2



Final Work



Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back loose lines.

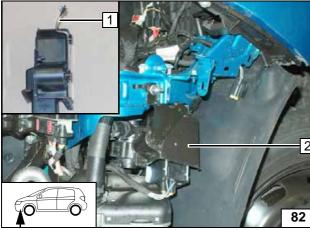
Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Program MultiControl CAR, teach Telestart transmitter.
- For initial startup and function check, please see installation instructions.
- Make settings on A/C control panel according to the 'Operating Instructions'.

Status: 15.02.2016

• Place the 'Switch off parking heater before refuelling' caution label near the filler neck.



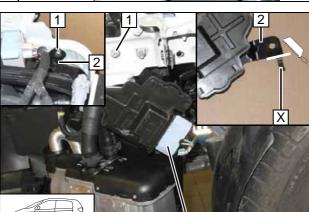


C3

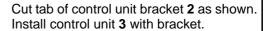
Bend tab 1 as shown. Install control unit 2.



Installing control unit



DS3



1 M6x20 bolt, flanged nut



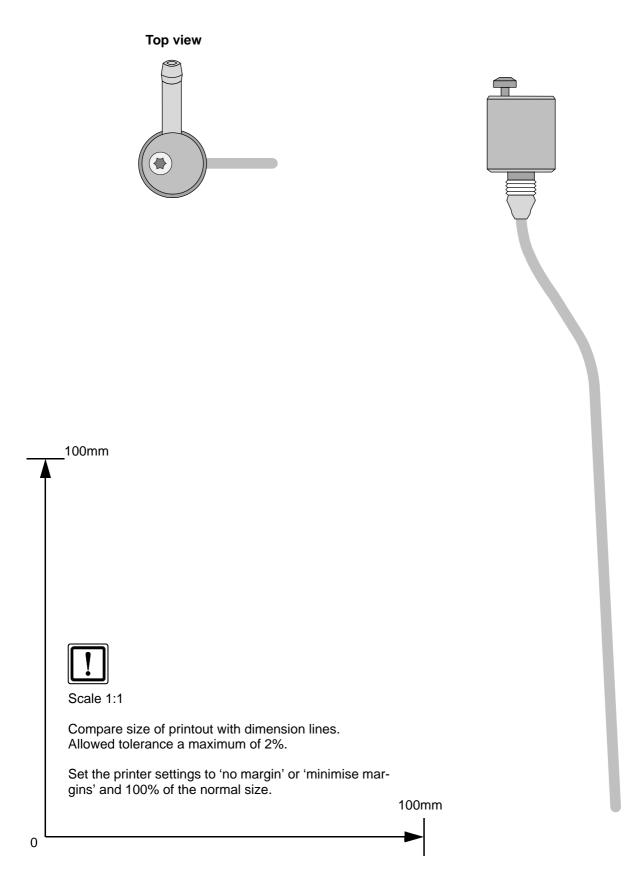
Installing control unit





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FuelFix Template





Operating Instructions for Automatic A/C

Please remove page and add to the vehicle operating instructions.

Note:

We recommend matching the heating time to the driving time.

Heating time = driving time

Example:

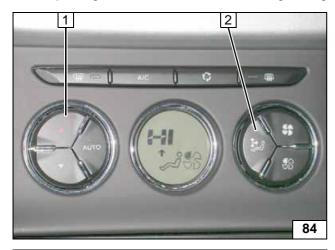
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.



Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

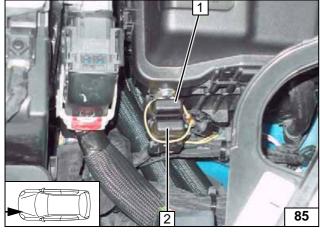
For instructions on deactivation, please refer to the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:



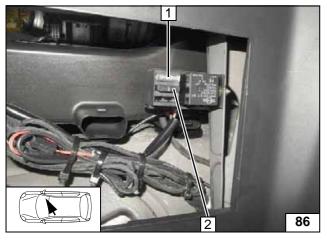
- 1 Set temperature to 'HI'
- 2 Air outlet faces upward

A/C control panel



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

Engine compartment fuses



- 1 25A fan fuse F4
- 2 1A heater control fuse F3

Passenger compartment fuses