

# Water Heater

Thermo Top Evo Parking Heater

E1 00 0258

With FuelFix

# Installation Documentation Ford Focus / C-Max / Grand C-Max

# Validity

Manufacturer	Model	Туре	EG BE No. / ABE
Ford	Focus	DYB	e13 * 2007 / 46 * 1138 *
Ford	C-Max	DXA	e13 * 2007 / 46 * 1103 *
Ford	Grand C-Max	DXA	e13 * 2007 / 46 * 1103 *

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.5 TDCi	Diesel	6-speed SG	88	1499	XWDA, XWDB, XWDC, XWDD

SG = manual transmission

#### From model year 2015 Left-hand drive vehicle

Verified equipment variants:	: Manual air-conditioning
	Automatic air-conditioning
	Front fog lights
	Headlight washer system
	Automatic Start-Stop system
	Euro 6
Not verified:	Passenger compartment monitoring
Total installation time:	approx. 9.5 hours

# Ford Focus / C-Max / Grand C-Max

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# **Necessary Components**

- · Basic delivery scope of Thermo Top Evo based on price list
- Installation kit with FuelFix for Ford Focus / C-Max / Grand C-Max 2015 Diesel: 1323872A
- To be ordered additionally in case of automatic air-conditioning either: Installation kit 'Webasto Standard' A/C control for Ford Focus / C-Max / Grand C-Max: **1324049**\_\_\_\_\_\_ or
- Installation kit 'Webasto Comfort' A/C control for Ford Focus / C-Max / Grand C-Max: 1324107\_
- In case of Telestart, heater control, as well as indicator lamp in accordance with price list and in consultation with end customer
- In case of MultiControl CAR installation: Timer cable extension: 1319724\_
- In case of MultiControl CAR installation: MultiControl installation frame: 9030077\_

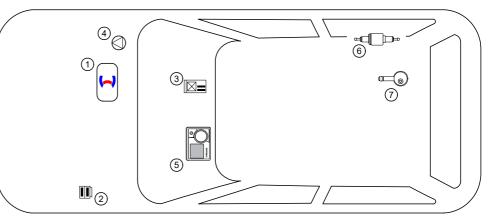
# Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about 1/4 full.
- The installation location of the push button in case of Telestart or ThermoCall 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. MultiControl CAR
- 6. Metering pump
- 7. FuelFix



# 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 suffocation.

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 or 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

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.

#### VEHICLE INSTALLATION REQUIREMENTS

#### 2.1. Scope

2.

- 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 used.
- 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 source.
- 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.

In multilingual versions the German language is binding.

# Ford Focus / C-Max / Grand C-Max

# Information on Validity

This installation documentation applies to Ford Focus / C-Max / Grand C-Max Diesel vehicles - for validity, see page 1 - from model year 2015 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 6mm<sup>2</sup>
- Crimping pliers for cable lug / tab connector, 0.5 6mm<sup>2</sup>
- 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

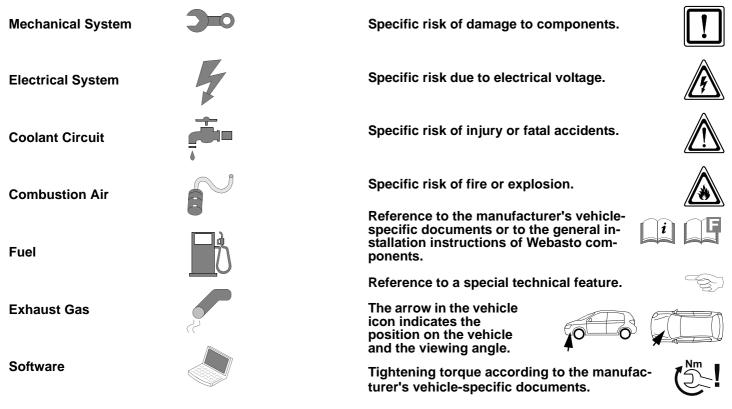
· All dimensions are in mm.

#### **Tightening torque values**

- 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:



Ident. No.: 1323873B\_EN

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# **Preliminary Work**

#### Vehicle



- · Open the fuel tank cap.
- Ventilate the fuel tank.
- · Close the fuel tank cap again.
- · Depressurise the cooling system.
- · Disconnect and remove the battery.
- · Remove the engine cover.
- Remove the windscreen wiper.
- · Remove the upper cover of the coolant reservoir. • Remove the cover of the coolant reservoir for the engine compartment.
- Drain the coolant according to the manufacturer's instructions.
- · Remove the air filter housing.
- Remove the engine underride protection.
- Remove the underbody trim on the right next to the tank.
- · Remove the exhaust system from the bracket in the rear part.
- Detach the heat protection trim of the exhaust system in the area of the tank.
- Remove the fuel tank according to the manufacturer's instructions.
- · Remove the footwell trim on the front passenger's side.
- Remove the A-pillar trim of the footwell on the front passenger's side (only in case of Telestart).
- Remove the A-pillar trim on the front passenger's side (only in case of Telestart and/or ThermoCall for C-Max / Grand C-Max)

#### 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.

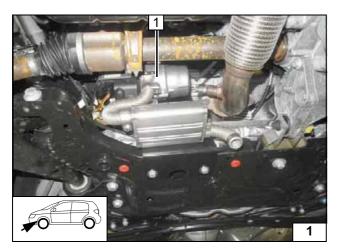


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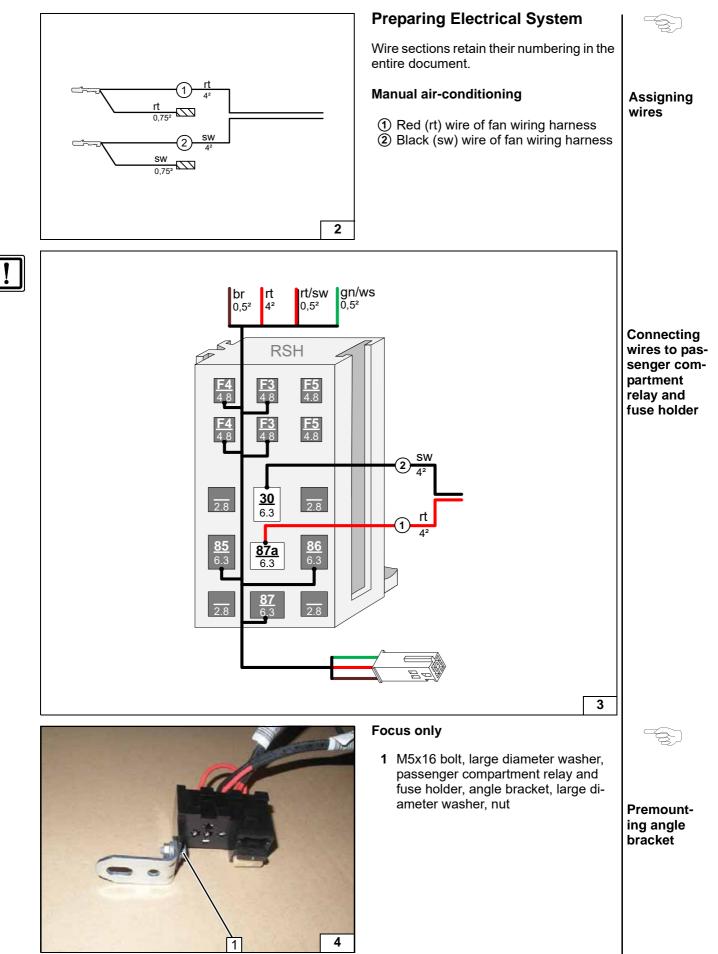
# **Heater Installation Location**

1 Heater

Installation location









# Wiring Harness Routing for Focus



### Positive wire

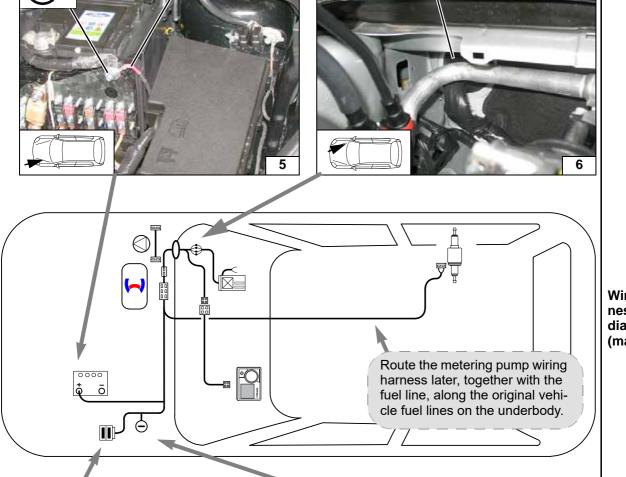
1 Positive wire on positive support point

#### Wiring harness pass through

1

1 Protective rubber plug

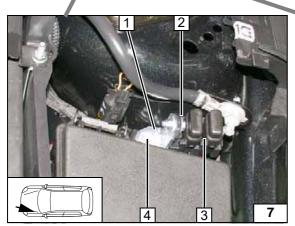




Wiring harness routing diagram (manual A/C)

i

3



#### Engine compartment fuse holder

- 1 Angle bracket
- **2** M5x16 bolt, large diameter washer [2x], retaining plate of fuse holder, nut
- 3 Fuses F1-2
- 4 M6x20 bolt, flanged nut, existing hole

Earth wire

1 Earth wire, 8 mm dia. cable lug at original vehicle earth support point



# Wiring Harness Routing for C-Max / Grand C-Max

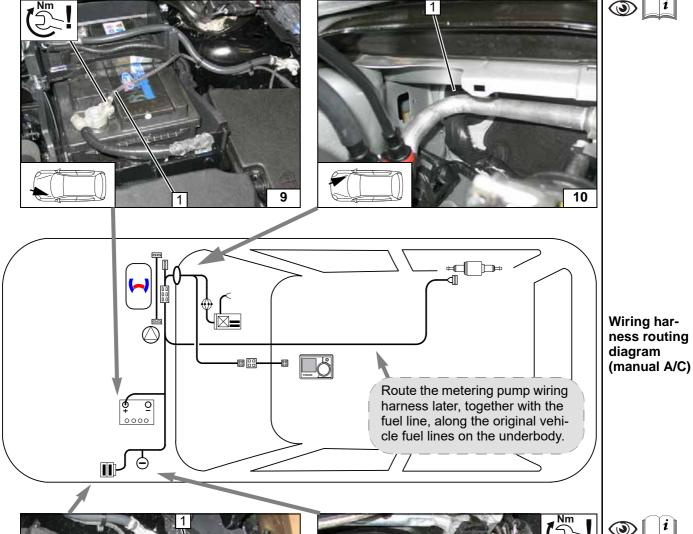


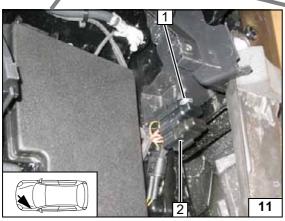
- **Positive wire** 
  - 1 Positive wire on positive battery terminal

# Wiring harness pass through

**1** Protective rubber plug







#### Engine compartment fuse holder

When drilling, be careful of components located behind!

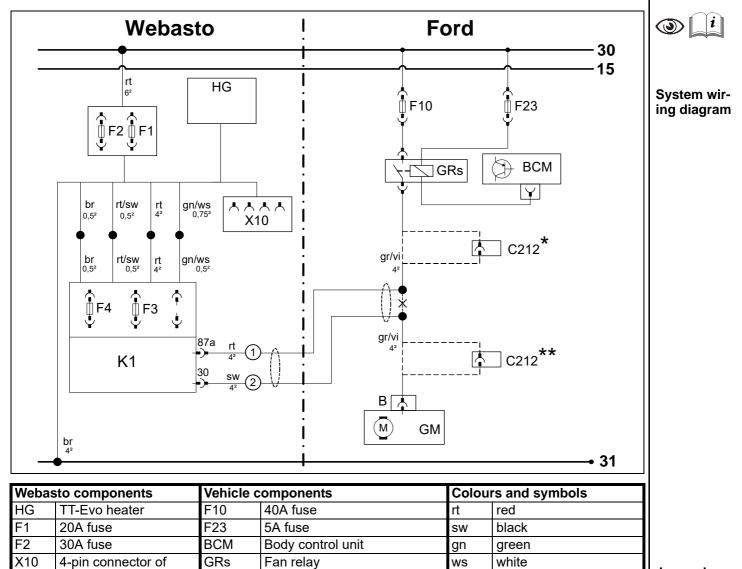
- 1 5.5mm dia. hole, M5x16 bolt, large diameter washer, retaining plate of fuse holder, nut
- 2 Fuses F1-2

Earth wire

1 Earth wire, 8 mm dia. cable lug at original vehicle earth support point



# Manual Air-Conditioning Fan Controller



br

gr

vi

Х

brown

grey

violet

Cutting point

Wiring colours may vary.

heater control

1A fuse

25A fuse

Fan relay

F3

F4

K1

C212\*

C212\*\*

GM

В

Connector for Focus

Fan motor connector

C-Max

Fan motor

Connector for C-Max / Grand

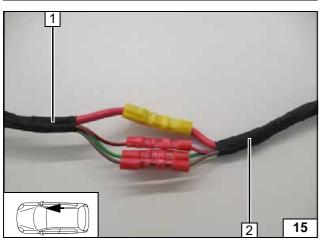
# Ford Focus / C-Max / Grand C-Max

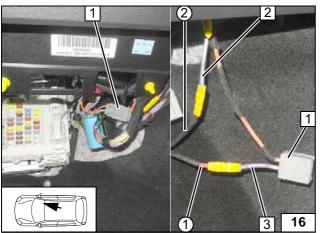
1

# 14

3

Ξ





Fan Controller for Focus	
1 5mm dia. hole	
	Drilling hole in instru- ment panel carrier
<ol> <li>Self-tapping screw, angle bracket pre- mounted</li> <li>Passenger compartment relay and</li> </ol>	
<ul> <li>fuse holder</li> <li>3 Relay K1</li> <li>4 25A fuse F4</li> </ul>	Installing passenger compart- ment relay and fuse holder
<ol> <li>Passenger compartment relay and fuse holder wiring harness</li> <li>Heater wiring harness</li> </ol>	
	Connecting same colour wires of wir- ing harness- es
<ol> <li>Connector C212</li> <li>Grey/violet (gr/vi) wire of GRs connector</li> <li>Grey/violet (gr/vi) wire of connector C212</li> <li>Red (rt) wire of K1/87a, fan wiring harness</li> <li>Black (sw) wire of K1/30, fan wiring harness</li> </ol>	Connect- ing fan mo- tor





Installing

Inserting fuse F4 and relay K1

Connecting same colour wires of wiring harness-

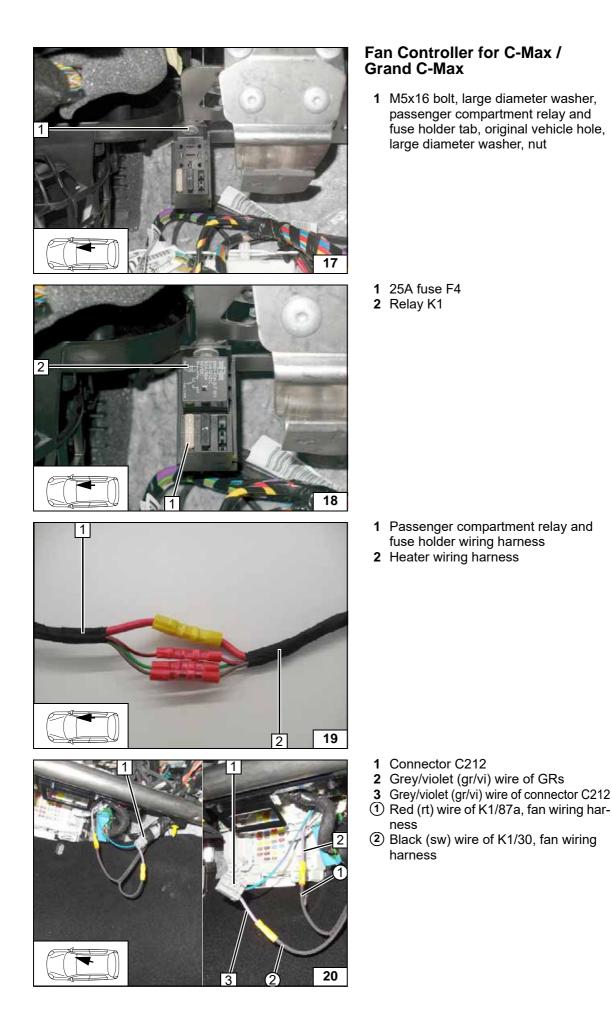
Connect-

tor

ing fan mo-

es

passenger compartment relay and fuse holder





# Automatic A/C Control

The connection of the A/C control has to be carried out in accordance with the separate installation documentation:

Installation documentation '**Webasto Standard**' A/C control for Ford Focus / C-Max / Grand C-Max with AC and AAC

or

Installation documentation 'Webasto Comfort' A/C control for Ford Focus / C-Max / Grand C-Max with AAC



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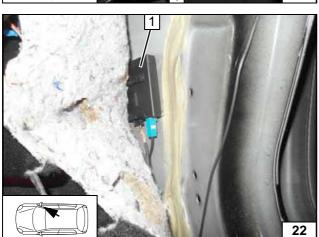




# Focus Heater Control MultiControl CAR Option

1 Installation frame

Installing MultiControl CAR



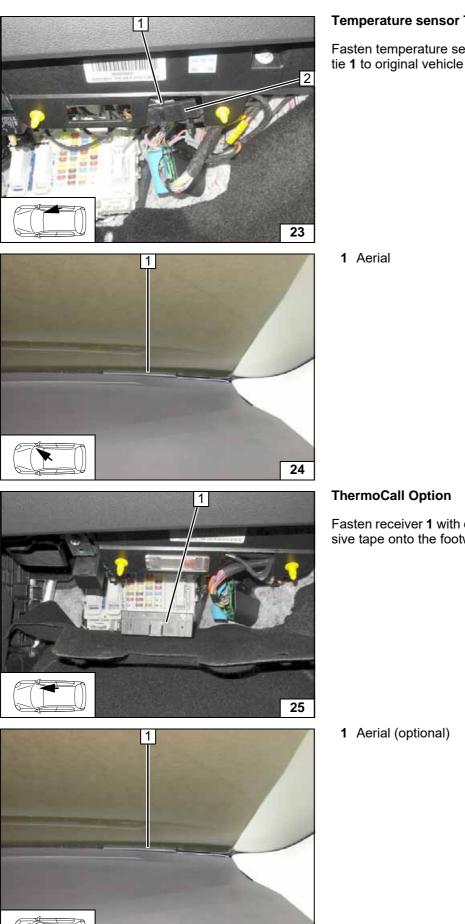
# **Remote Option (Telestart)**

Fasten receiver **1** with double-sided adhe-sive tape.

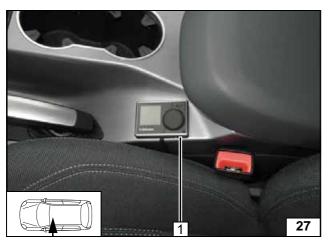


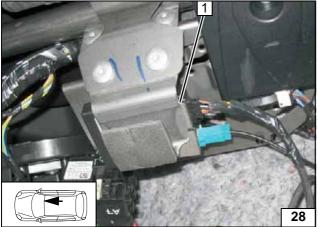
Installing receiver

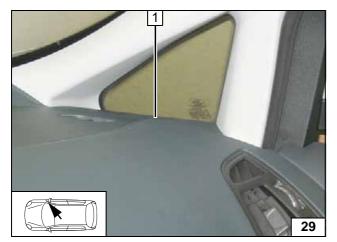


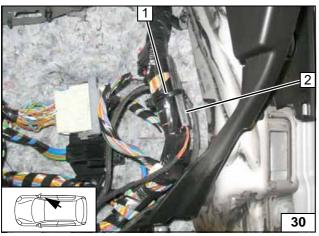


Temperature sensor T100 HTM i ۲ Fasten temperature sensor 2 with cable tie **1** to original vehicle wiring harness. Installing temperature sensor i Installing aerial i ٢ Fasten receiver 1 with double-sided adhesive tape onto the footwell trim. Installing receiver i ٩ Installing aerial



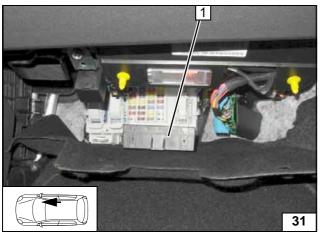


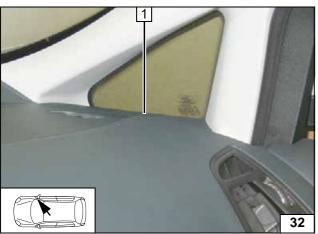




C-Max / Grand C-Max Heater Control	
MultiControl CAR Option 1 Installation frame	Installing MultiControl CAR
Remote Option (Telestart) Fasten receiver 1 with double-sided adhe- sive tape.	()) Installing receiver
1 Aerial	Installing aerial
<b>Temperature sensor T100 HTM</b> Fasten temperature sensor <b>2</b> with cable tie <b>1</b> to original vehicle wiring harness.	() (i) (i) (i) (i) (i) (i) (i) (i) (i) (







# ThermoCall Option

Fasten receiver **1** with double-sided adhesive tape onto the footwell trim.



Installing receiver

**1** Aerial (optional)

Installing aerial



Premounting flanged

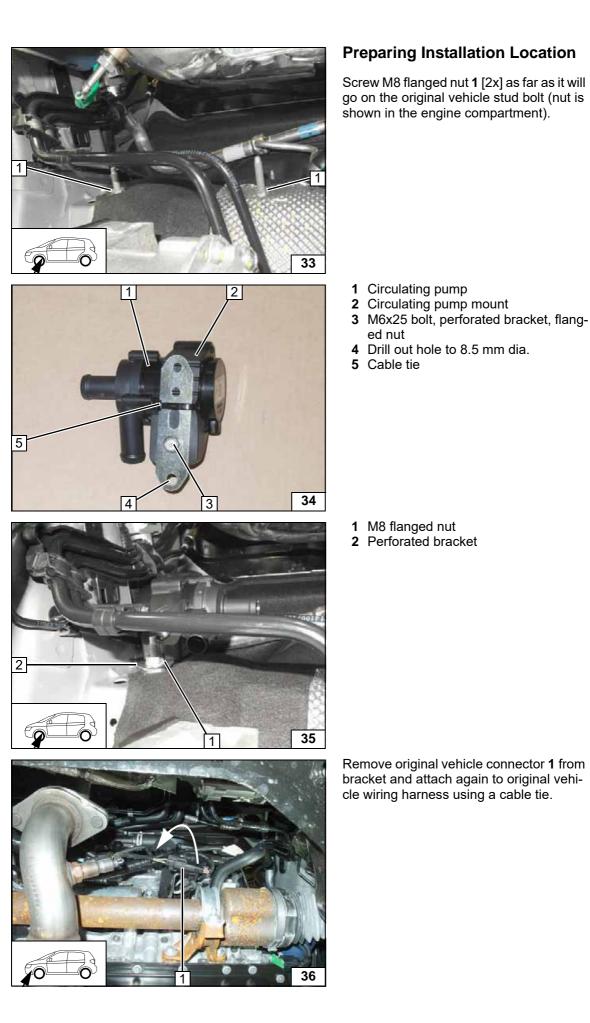
Premounting circulating pump

Installing circulating

Removing connector

pump

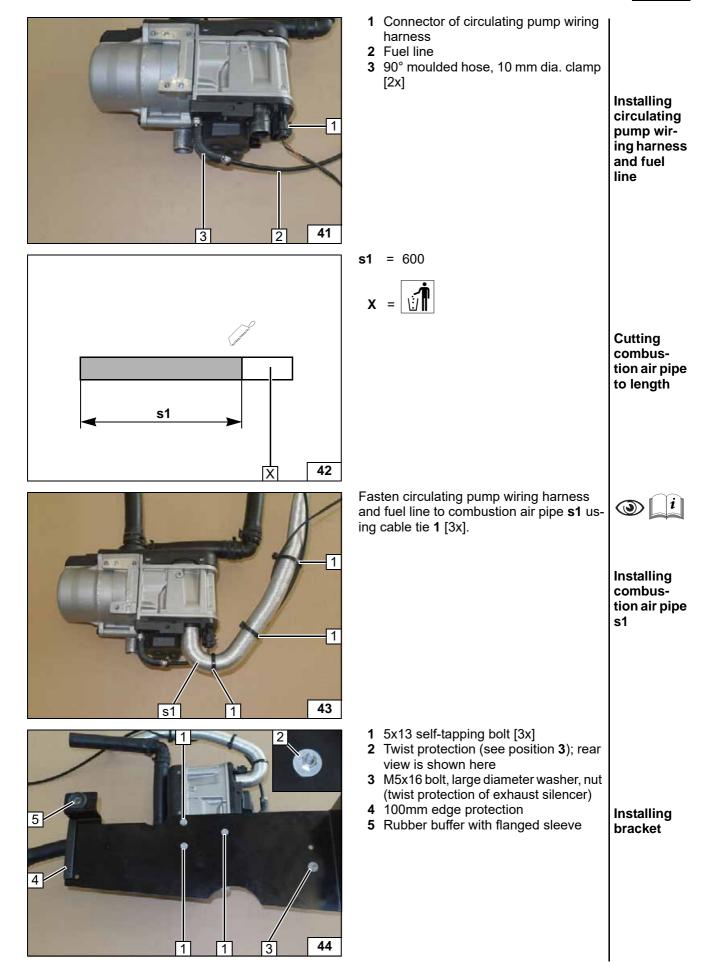
nut



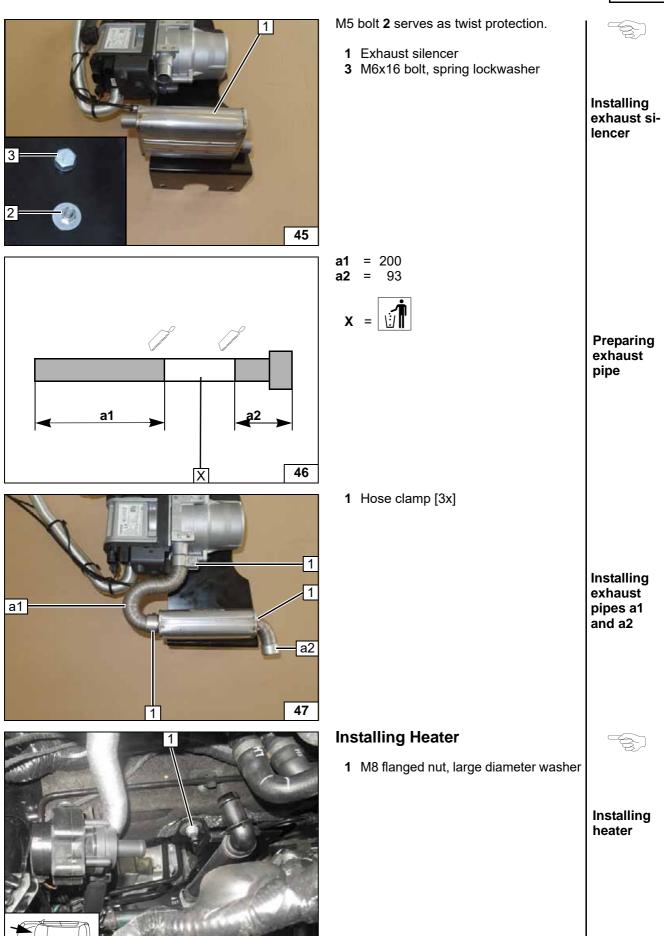


	<ul> <li>Preparing Heater</li> <li>1 Axial water connection piece, sealing ring</li> <li>2 5x15 self-tapping bolt, retaining plate</li> </ul>	
	of water connection piece 3 90° water connection piece, sealing ring	Installing water con- nection piece
	A = 250      B = 150      C = 145      D = 230	
		Cutting hoses to length
38 D	<ol> <li>Heater outlet, 25mm dia. spring clip</li> <li>Heater inlet, 25mm dia. spring clip</li> </ol>	
		Installing hose C and D
	<ol> <li>90°, 18x18 connecting pipe, 25 mm dia. spring clip</li> <li>90°, 18x18 connecting pipe, 25 mm dia. spring clip [2x]</li> </ol>	Installing hose B

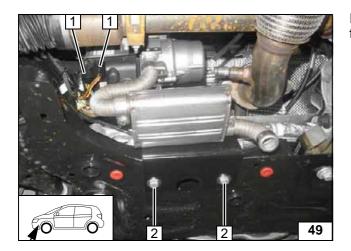












If there is no thread at position **2**, use a M8 flanged nut!

- Connector of heater wiring harness [2x]
   M8x20 bolt, large diameter washer, existing threaded hole [2x each]



Installing heater

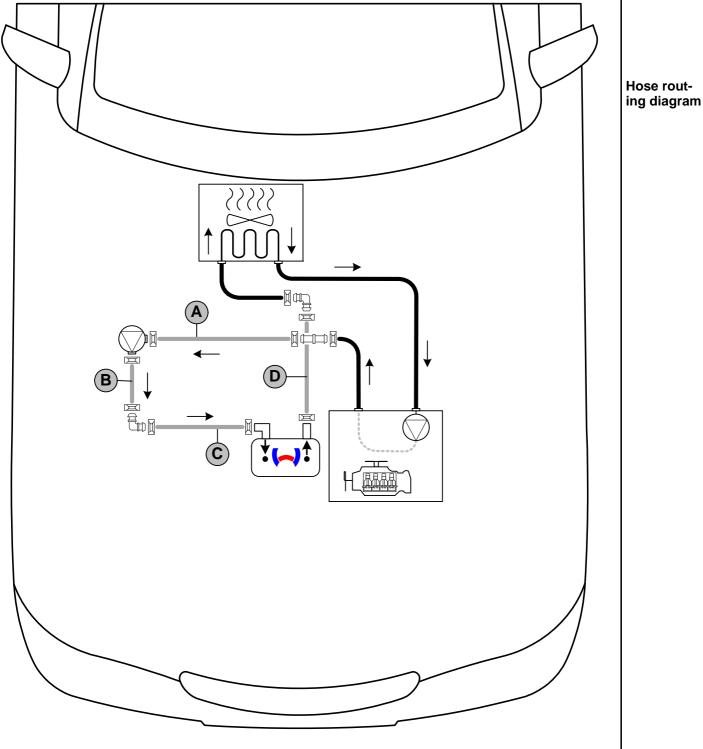


# **Coolant Circuit**



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:



All spring clips without a specific designation  $\square = 25 \text{ mm}$  dia. All connecting pipes  $\square$  and  $\square = 18x18 \text{mm}$  dia.



Connecting circulating pump

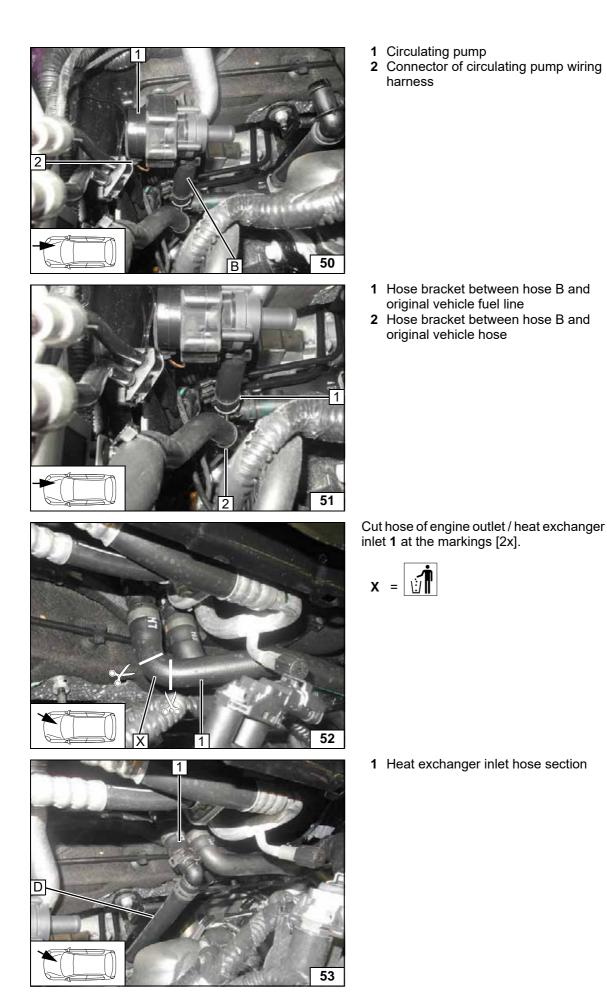
Installing hose brack-

Cutting point

Connecting heat exchanger

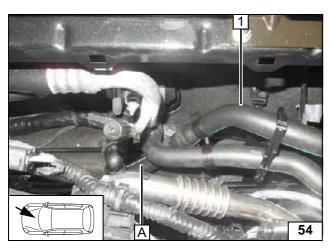
inlet

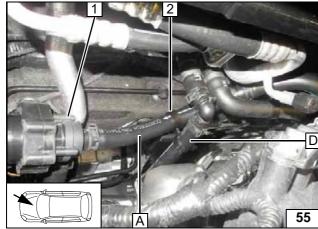
et



!







1 Engine outlet hose section	Connect- ing engine outlet
<ul> <li>Align hoses.</li> <li>Ensure sufficient distance from neighbouring components, correct if necessary.</li> <li>1 Circulating pump</li> <li>2 Hose bracket between hose A and hose D</li> </ul>	Connect- ing circulat- ing pump

# Ford Focus / C-Max / Grand C-Max



#### Fuel

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

Catch

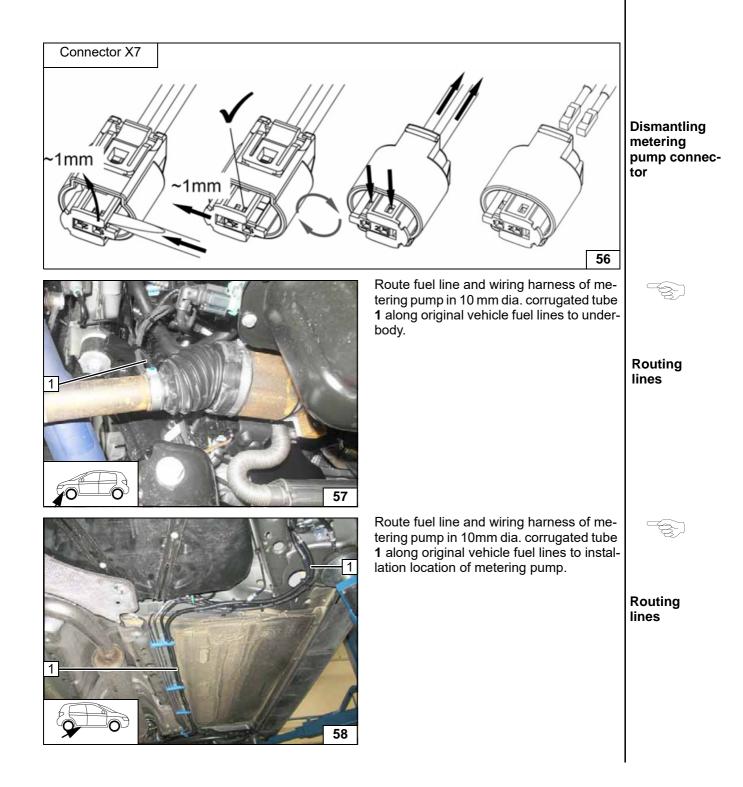
Catch any fuel running off in an appropriate container.



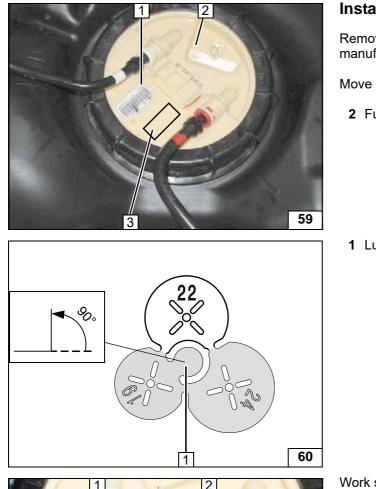
Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.

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

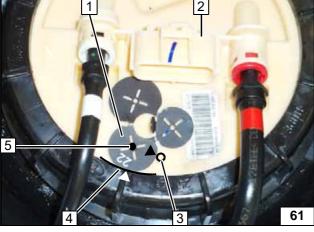
The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.



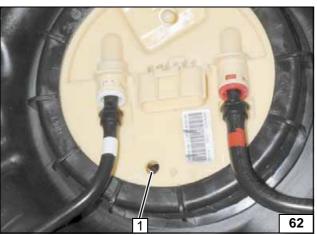












# Installing FuelFix

Remove the fuel tank according to the manufacturer's instructions.

Move sticker 1 to marked area 3.

2 Fuel tank sending unit



Preparing fuel tank sending unit

Preparing drilling template

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Copying

hole pattern

F



Work steps F1 and F2.

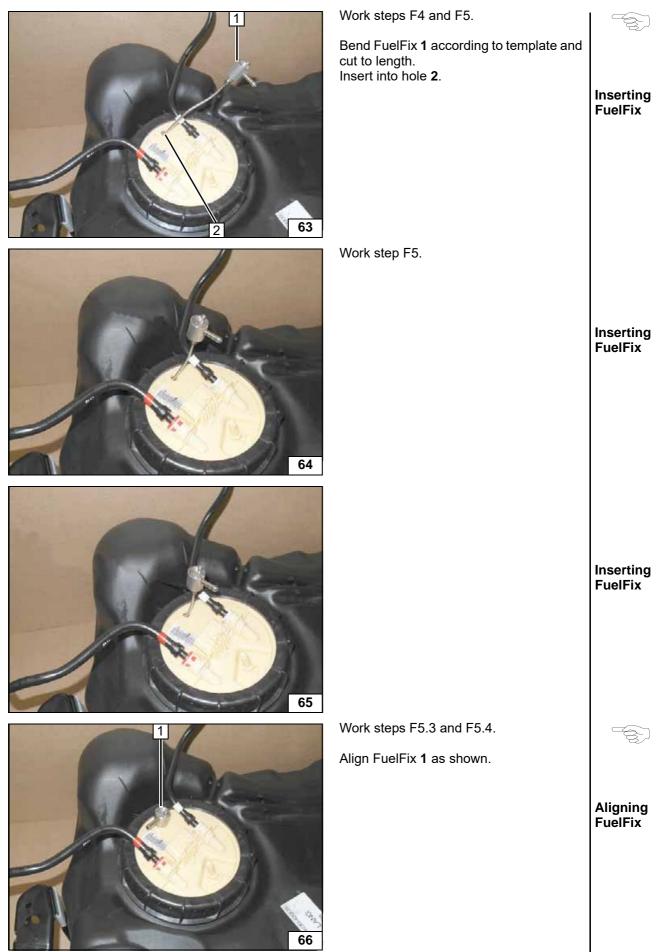
- 1 Template dia. = 22mm
- 2 Fuel tank sending unit
- **3** Contact point with raised part
- 4 Contact point with union nut
- 5 Hole pattern

Work step F3.

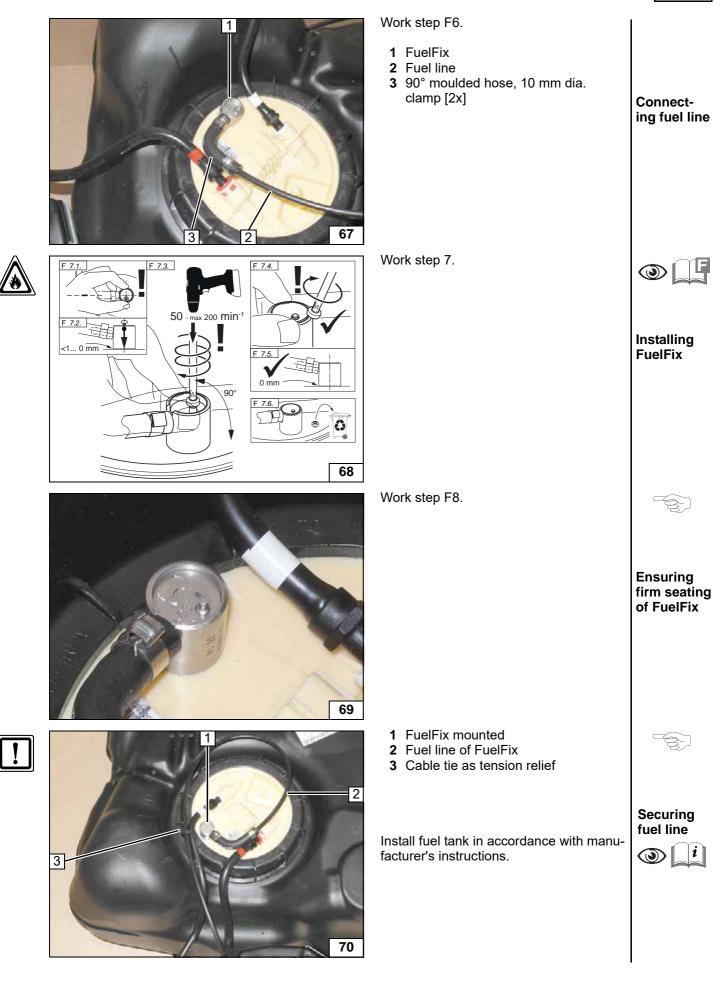
1 Hole made with provided drill

Hole for FuelFix

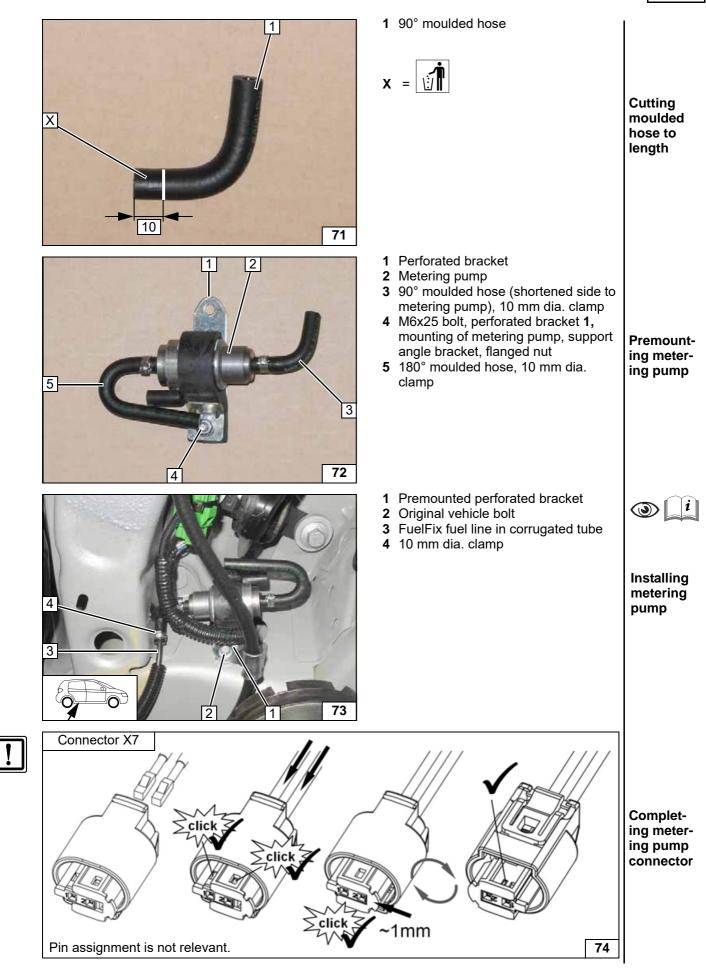






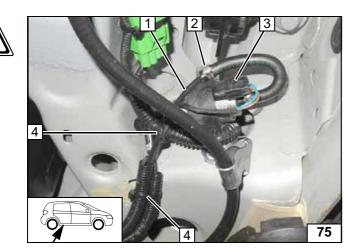








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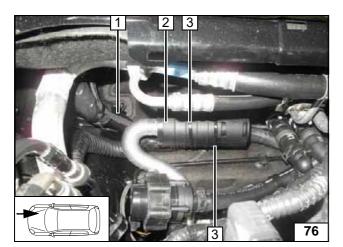
Check the position of the components; ad-just if necessary. Check that they have freedom of movement.

- 1 Heater fuel line
- 2 10 mm dia. clamp
- 3 Metering pump wiring harness, con-nector X7 mounted
- 4 Cable tie [2x]



Connecting metering pump





# **Combustion Air**

Fasten silencer **2** using cable tie **3** [2x] to original vehicle wiring harness **1**.



Installing silencer

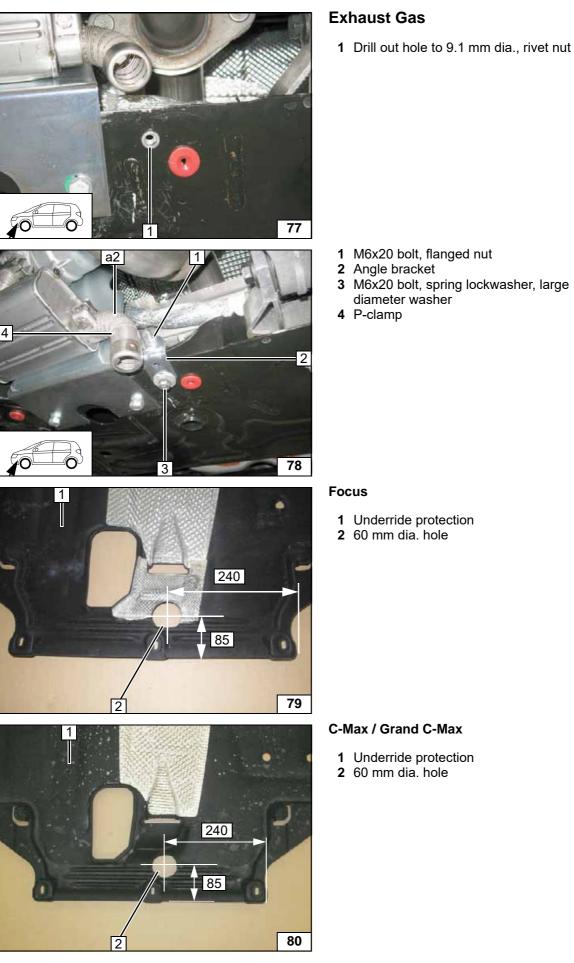


Installing perforated . bracket

Installing

exhaust

pipe a2



# 1 M6x20 bolt, flanged nut 3 M6x20 bolt, spring lockwasher, large diameter washer 1 Underride protection

#### C-Max / Grand C-Max

1 Underride protection 2 60 mm dia. hole

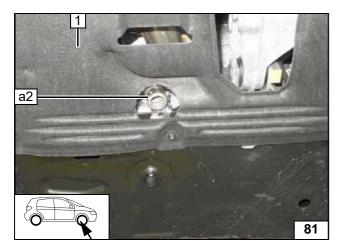
> **Cutting out** underride protection

> Cutting out underride

protection







#### All vehicles

Mount underride protection of engine **1**. Align exhaust pipe **a2** flush with underride protection **1**. Ensure sufficient distance from neighbouring components.

Aligning exhaust pipe a2

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# **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).

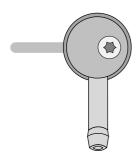
- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Program MultiControl CAR, teach Telestart transmitter.
- Manual air-conditioning: Make settings on the A/C control panel according to the 'operating instructions'.
- Automatic air-conditioning: If the fan function or A/C control panel settings need to be checked, see the installation documentation in the additional kit 'Webasto Standard' or 'Webasto Comfort' A/C control. section 'Final Work'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.

Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany

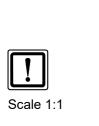


# **FuelFix Template**

Top view







100mm

Compare size of printout with dimension lines. Allowed tolerance a maximum of 2%.

Set the printer settings to 'no margin' or 'minimise margins' and 100% of the normal size.

0

100mm



# Operating Instructions for Focus with Man. A/C

Please remove page and add to the vehicle operating instructions.

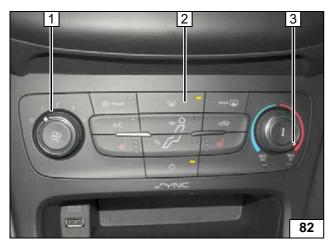
Note:

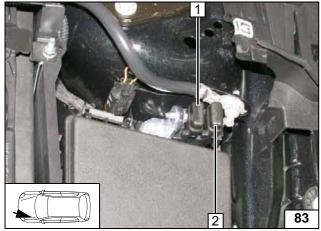
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

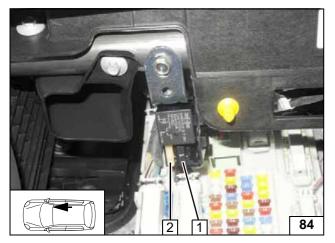
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







- **1** Set fan to level '1', or max. '2'
- 2 Air outlet to windscreen
- 3 Set temperature to 'max.'

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

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

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A/C control panel for manual airconditioning

Engine compartment fuses

Passenger compartment fuses



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# Operating Instructions for C-Max / Grand C-Max with Man. A/C

Please remove page and add to the vehicle operating instructions.

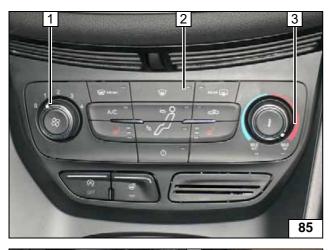
Note:

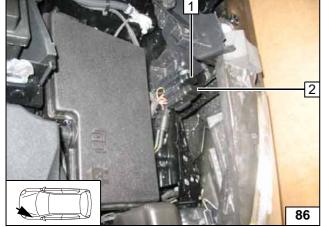
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

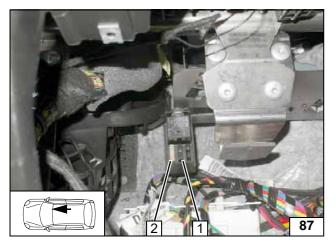
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







- **1** Set fan to level '1', or max. '2'
- 2 Air outlet to windscreen
- 3 Set temperature to 'max.'

- 1 30A passenger compartment main fuse F22 20A heater fuse F1
- Engine compartment fuses

A/C control panel for manual airconditioning

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

Passenger compartment fuses