

# 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 *

#### **Ford Focus**

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.0 EcoBoost	Petrol	SG	74	998	M2DA
1.0 EcoBoost	Petrol	SG	92	998	M1DA
1.6 Duratec	Petrol	SG	77	1560	IQ
1.6 Duratec	Petrol	SG	92	1560	PN
1.6 Duratec	Petrol	SG	110	1560	JQ

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

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.6 Duratec	Petrol	SG	77	1560	IQ
1.6 Duratec	Petrol	SG	92	1560	PN
1.6 Duratec	Petrol	SG	110	1560	JQ

SG = manual transmission

#### from model year 2011 until model year 2014 Left-hand drive vehicle

Verified equipment variants	: Manual air-conditioning Automatic air-conditioning Front fog lights Headlight washer system Automatic Start-Stop system
Not verified:	Passenger compartment monitoring
Exclusion:	Not for 1.6 EcoBoost from model year 2012!
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 2011 Petrol: 1316972B
- · 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
- In case of MultiControl CAR installation: Timer cable extension: 1319724\_
- For MultiControl CAR installation in case of Focus: 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.

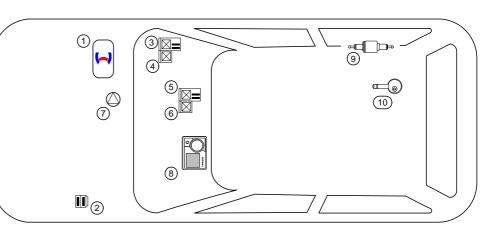
# **Installation Overview**

#### Legend:

- 1. Heater
- **2**. Engine compartment fuse holder
- **3**. Relay and fuse holder for passenger compartment, manual and automatic A/C **Focus**
- 4. PWM GW, automatic A/C Focus
- Passenger compartment relay and fuse holder, manual air-conditioning and automatic A/C C-Max / Grand C-Max
- 6. PWM GW, automatic A/C C-Max / Grand C-Max
- 7. Circulating pump
- 8. MultiControl CAR
- 9. Metering pump
- 10. 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 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.

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 StVZO (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 win-

#### 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 Petrol vehicles - for validity, see page 1 - from model year 2011 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

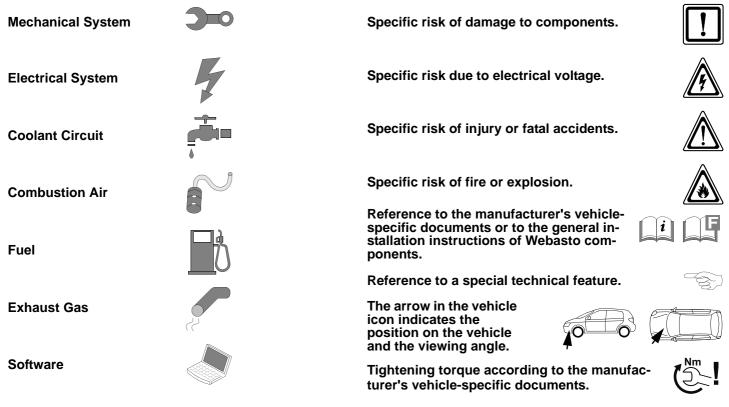
All dimensions are in mm.

#### **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.: 1316973J\_EN

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# **Preliminary Work**

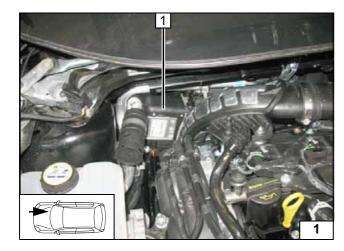
#### Vehicle

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- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
   Disconnect and remove the bettern
- 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 intake hose.
- Remove the engine underride protection.
- Remove the underbody trim on the right next to the tank.
- 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 glove box.
- Remove the shift lever trim (only in case of automatic air-conditioning).
- Remove the centre console trim (only in case of automatic air-conditioning).
- Remove the A/C control panel according to the manufacturer's instructions (only in case of automatic air-conditioning).
- Remove the A-pillar trim of the footwell on the front passenger's side (only in case of Telestart).

#### 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

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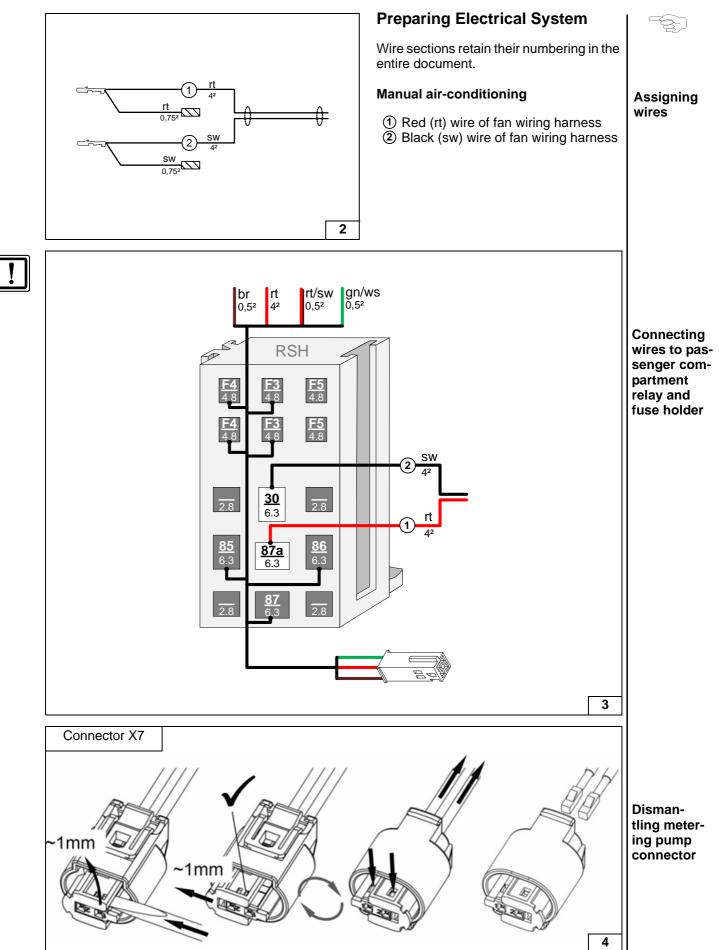
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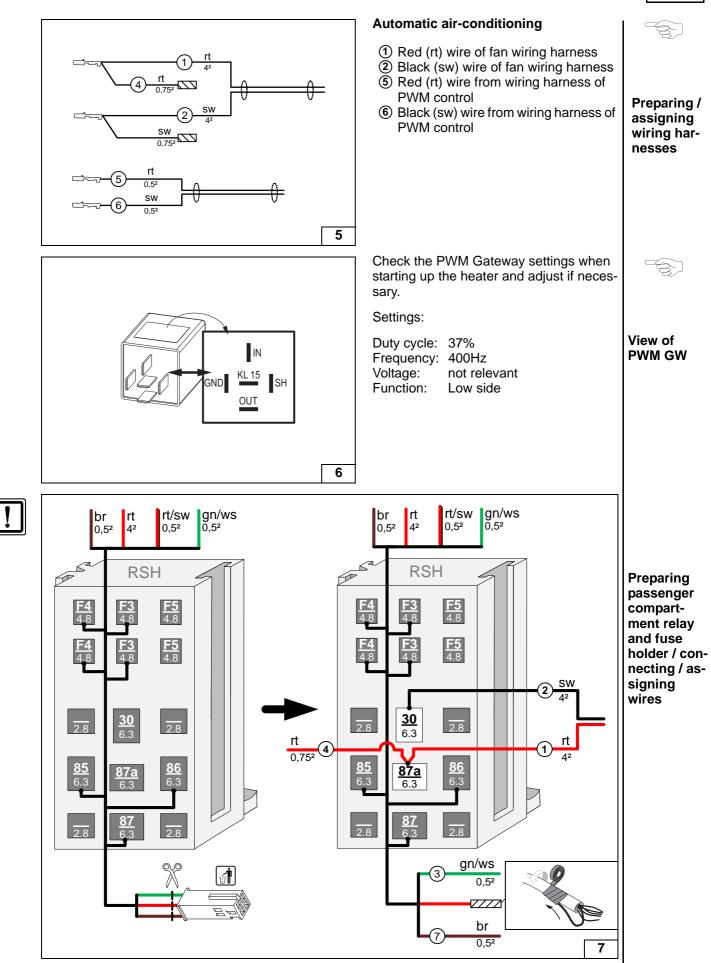
O











rt/sw gn/ws <sub>0,5²</sub> rt 4² br 0,5² 0,5<sup>2</sup> RSH  $\leq$ **F4** 4.8 **F3** 4.8 **F5** 4.8 rt (4)0,75<sup>2</sup> <u>**F4**</u> 4.8 **F3** 4.8 **F5** 4.8 PWM  $\wedge$ rt (5) sw (2) 0,5² Δ <u>IN</u> 6.3 2.8 2.8 <u>30</u> 6.3 2.8 2.8 SW (6) 0,5<sup>2</sup> rt 1 4² ● 6.3 KL15 6.3 <u>SH</u> 6.3 <u>85</u> <u>87a</u> 6.3 <u>86</u> 6.3 6.3 <u>OUT</u> 6.3 <u>87</u> 6.3 2.8 2.8 2.8 2.8 gn/ws 3 0,5² br

Interlocking PWM GW socket and passenger compartment relay and fuse holder, connecting wires

 $(7)^{51}_{0,5^2}$ 

8



# **Electrical System**

# Wiring Harness Routing for Focus (up to MY 14)

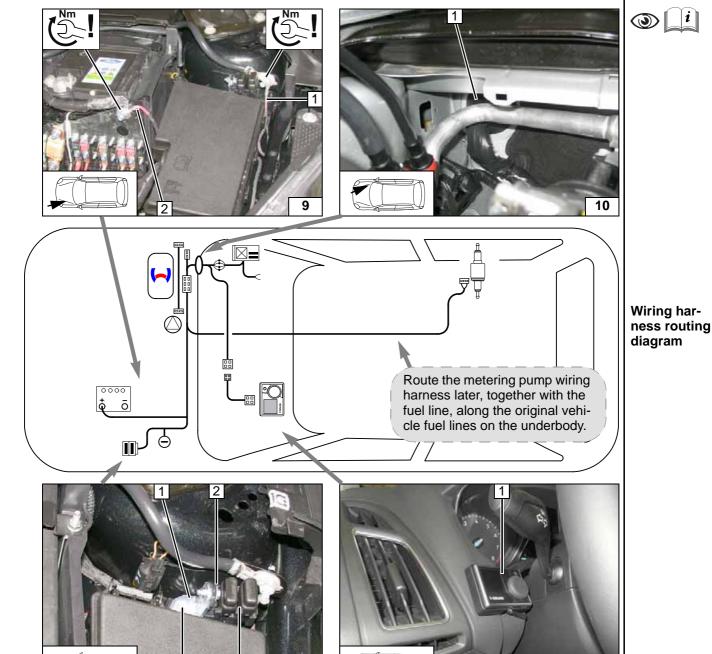


# Positive and earth wire

- 1 Earth wire, 8 mm dia. cable lug at original vehicle earth support point
- 2 Positive wire on positive battery terminal

#### Wiring harness pass through

1 Protective rubber plug



1 Angle bracket

3 Fuses F1-2

11

**MultiControl CAR Focus Option** 

Control CAR.

Use timer cable extension when installing Multi-

1 MultiControl CAR with installation frame

4

2 M5x16 bolt, large diameter washer [2x], re-

Engine compartment fuse holder

taining plate of fuse holder, nut

4 M6x20 bolt, flanged nut, existing hole

3

12

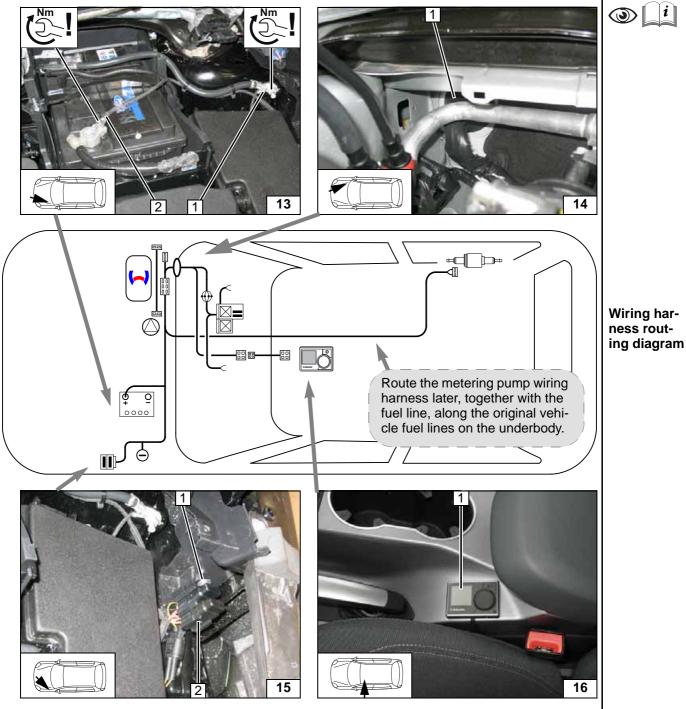


# Wiring Harness Routing for C-Max / Grand C-Max



### Positive and earth wire

- 1 Earth wire, 8 mm dia. cable lug at original vehicle earth support point
- **2** 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!

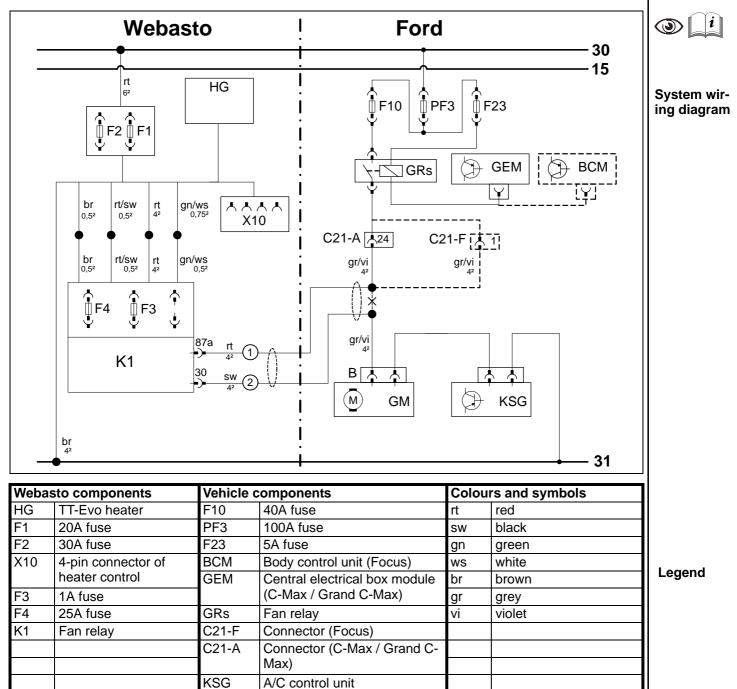
- 1 5.5mm dia. hole, M5x16 bolt, large diameter washer, retaining plate of fuse holder, nut
- 2 Fuses F1-2

MultiControl CAR C-Max / Grand C-Max Use timer cable extension when installing Multi-Control CAR.

1 MultiControl CAR



# Wiring Diagram for Manual Air-Conditioning



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Cutting point

Wiring colours may vary.

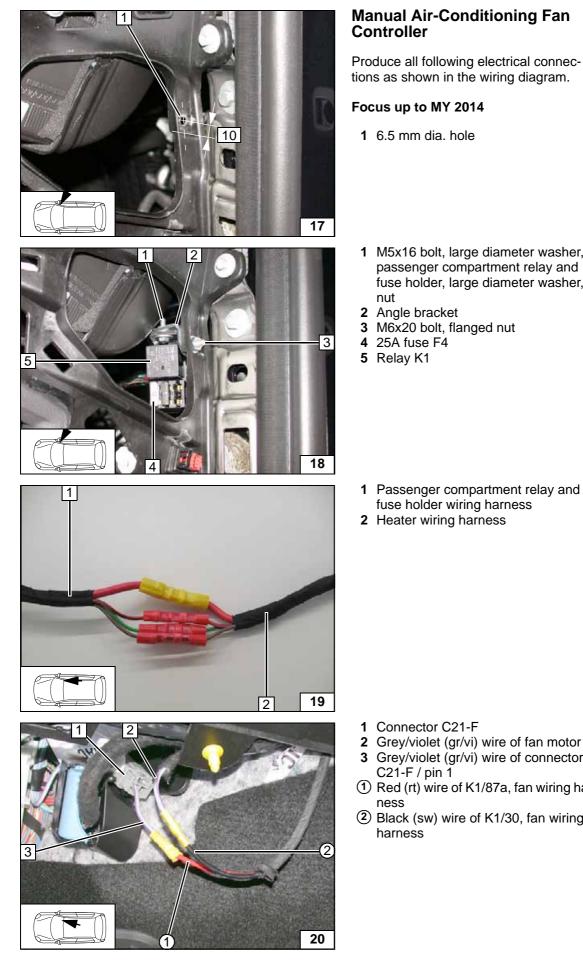
GM

В

Fan motor

Fan motor connector





Hole for passenger compartment relay and fuse holder

Installing

compartment relay and fuse holder

passenger

- 1 M5x16 bolt, large diameter washer, passenger compartment relay and fuse holder, large diameter washer,
- 3 M6x20 bolt, flanged nut

1 Passenger compartment relay and fuse holder wiring harness

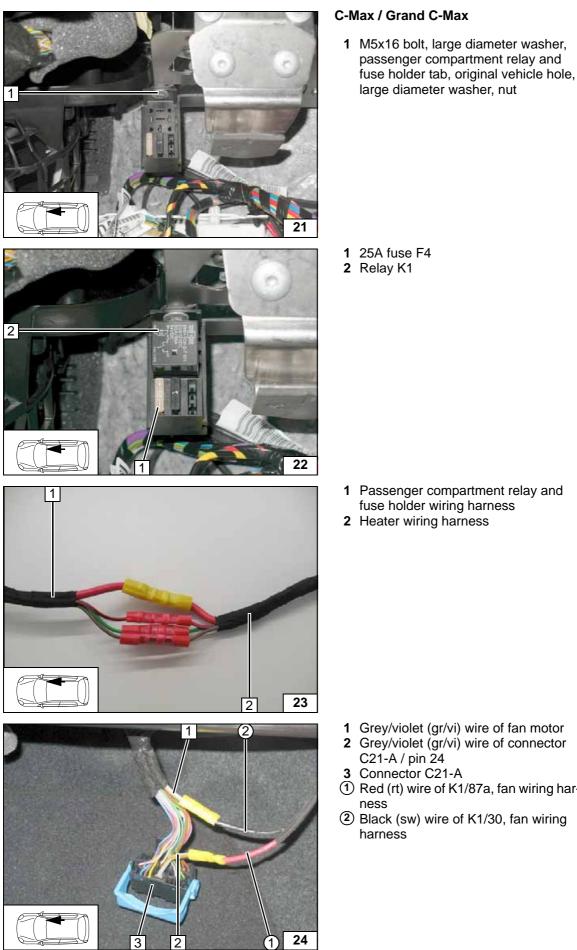
Connecting same colour wires of wiring harnesses

- 2 Grey/violet (gr/vi) wire of fan motor
- 3 Grey/violet (gr/vi) wire of connector
- 1 Red (rt) wire of K1/87a, fan wiring har-
- 2 Black (sw) wire of K1/30, fan wiring

Connecting fan motor



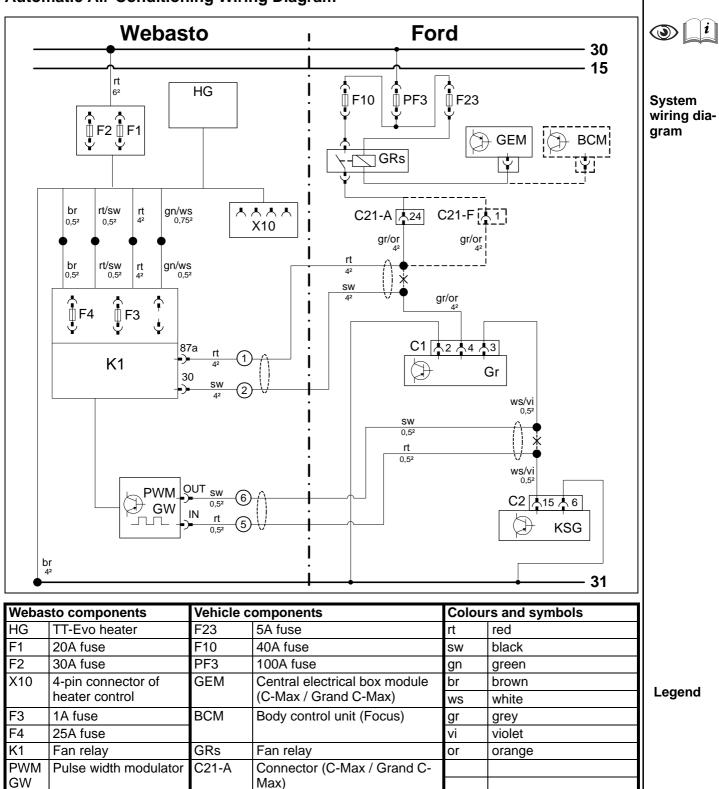
Installing passenger compart-



# ment relay and fuse holder Inserting fuse F4 and relay K1 1 Passenger compartment relay and fuse holder wiring harness 2 Heater wiring harness Connecting same colour wires of wiring harnesses **1** Grey/violet (gr/vi) wire of fan motor 2 Grey/violet (gr/vi) wire of connector C21-A / pin 24 3 Connector C21-A 1 Red (rt) wire of K1/87a, fan wiring har-Connecting

fan motor





Automatic Air-Conditioning Wiring Diagram

**PWM GW settings:** 

37%

400Hz

not relevant

Low side

Duty cycle:

Frequency:

Voltage:

Function:

C21-F

Gr

C1

C2

KSG

Connector (Focus)

Fan controller connector

X

Cutting point

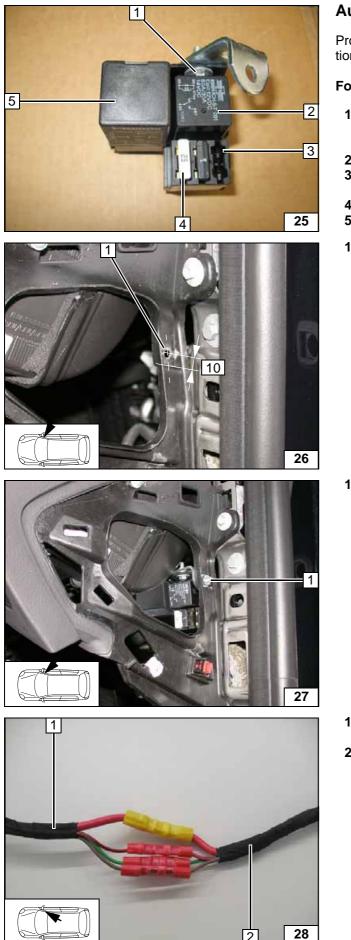
Wiring colours may vary.

Fan controller

A/C control unit

Connector of KSG





# Automatic A/C Fan Controller

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

#### Focus

- 1 M5x16 bolt, large diameter washer, passenger compartment relay and fuse holder, angle bracket, large diameter washer, nut
- 2 Relay K1
- **3** Passenger compartment relay and fuse holder
- 4 25A fuse F4
- 5 PWM GW
- 1 6.5 mm dia. hole

Premounting passenger compartment relay and fuse holder

Hole for passenger compartment relay and fuse holder

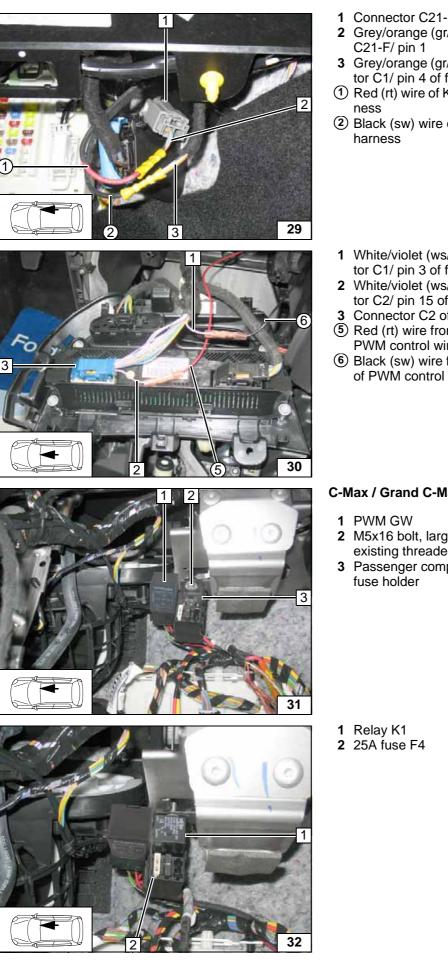
1 M6x20 bolt, premounted angle bracket, flanged nut

> Installing passenger compartment relay and fuse holder

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

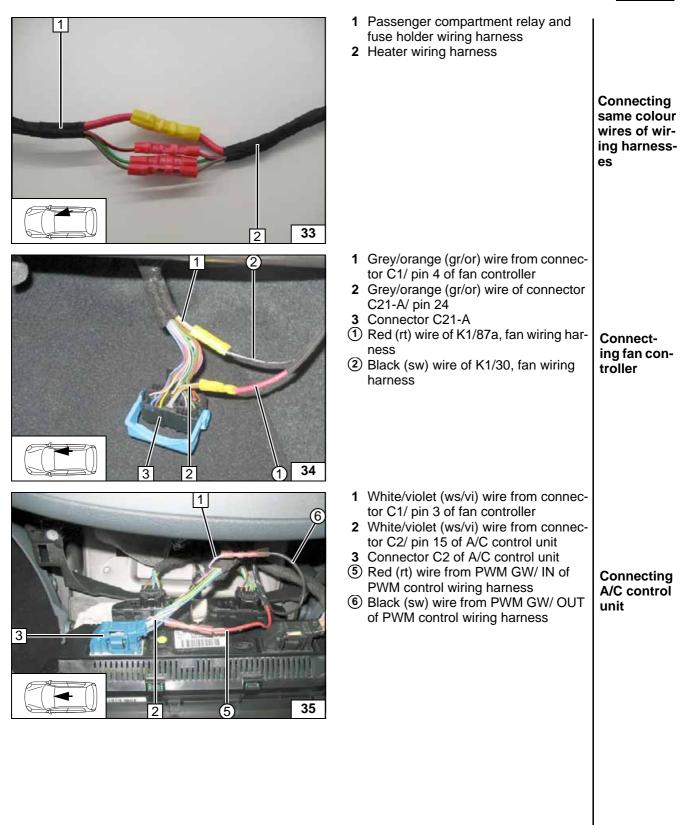
Connecting same colour wires of wiring harnesses



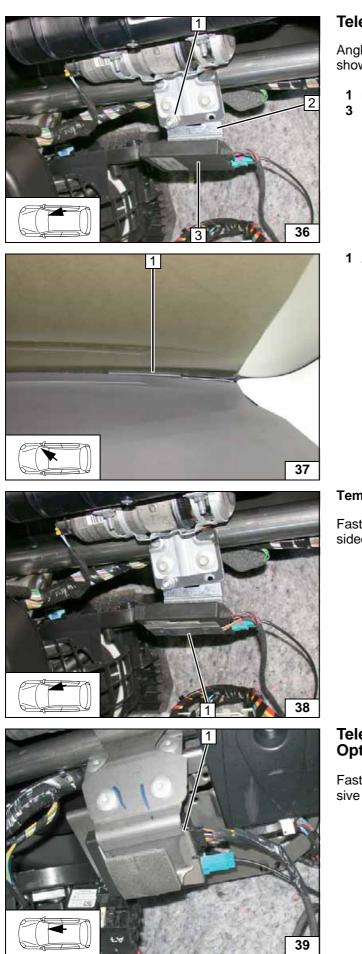


Connector C21-F Grey/orange (gr/or) wire of connector C21-F/ pin 1 Grey/orange (gr/or) wire from connec- or C1/ pin 4 of fan controller Red (rt) wire of K1/87a, fan wiring har- ness Black (sw) wire of K1/30, fan wiring harness	Connect- ing fan con- troller
White/violet (ws/vi) wire from connec- or C1/ pin 3 of fan controller White/violet (ws/vi) wire from connec- or C2/ pin 15 of A/C control unit Connector C2 of A/C control unit Red (rt) wire from PWM GW/ IN of PWM control wiring harness Black (sw) wire from PWM GW/ OUT of PWM control wiring harness	Connect- ing A/C control unit
<b>ax / Grand C-Max</b> PWM GW M5x16 bolt, large diameter washer, existing threaded hole Passenger compartment relay and use holder	Installing passenger compart- ment relay and fuse holder
Relay K1 25A fuse F4	Installing re- lay K1 and fuse F4









elestart Focus Option	
ngle down bracket of receiver <b>2</b> as hown.	
<ol> <li>M6x20 bolt, flanged nut, existing hole</li> <li>Receiver</li> </ol>	Installing receiver
1 Aerial	
	Installing
	aerial
emperature sensor T100 HTM	
asten temperature sensor <b>1</b> with double- ided adhesive tape.	
	Installing tempera-
	ture sensor
elestart C-Max / Grand C-Max	~
Option	
asten receiver <b>1</b> with double-sided adhe- ive tape.	Installing
	receiver





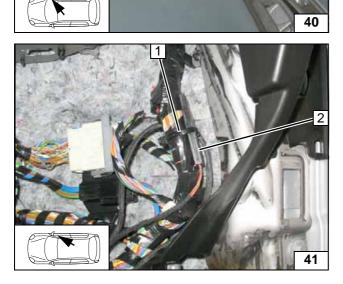
Installing aerial

#### Temperature sensor T100 HTM

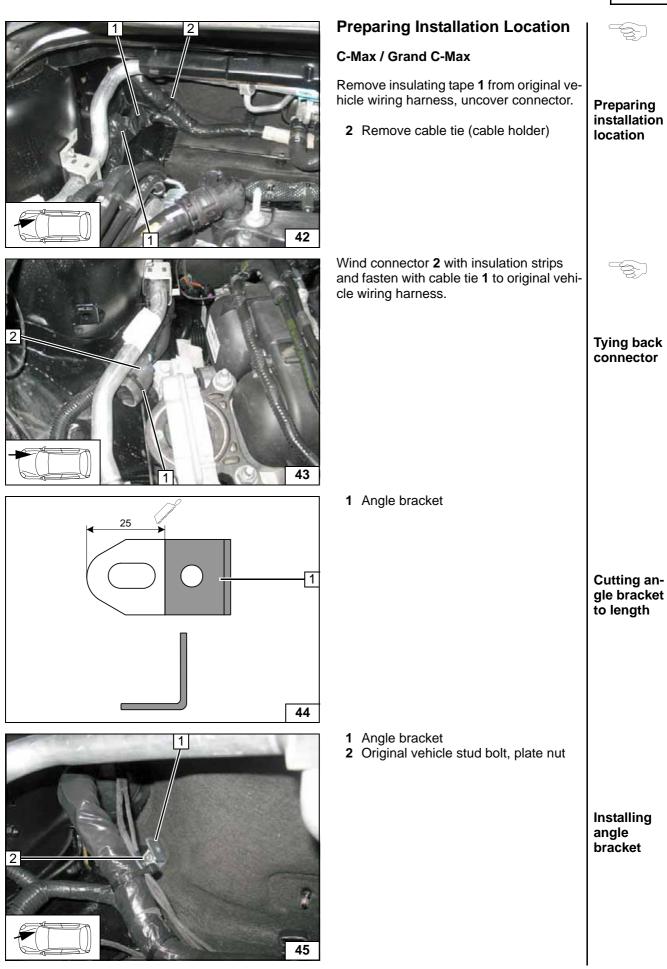
Fasten temperature sensor **2** with cable tie **1** to original vehicle wiring harness.



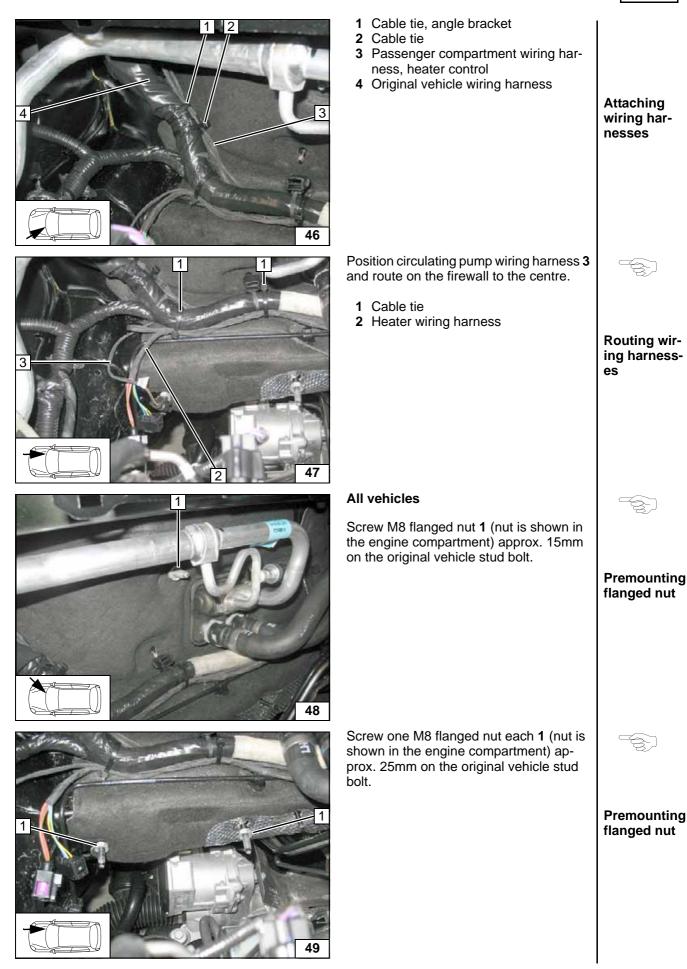
Installing temperature sensor





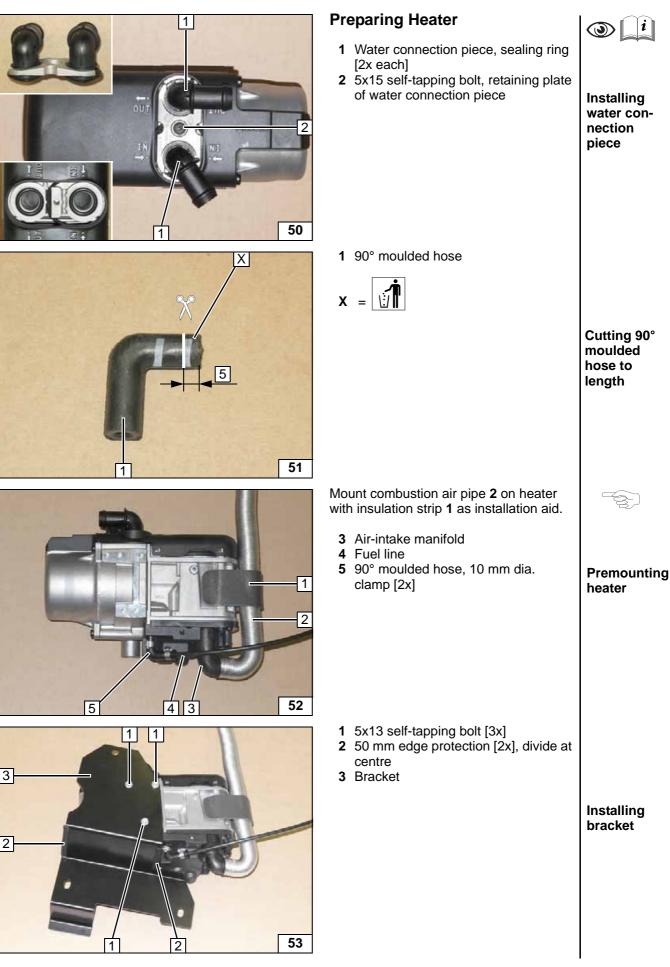






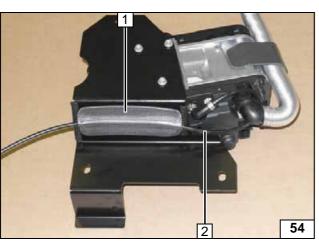


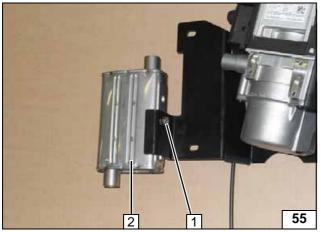
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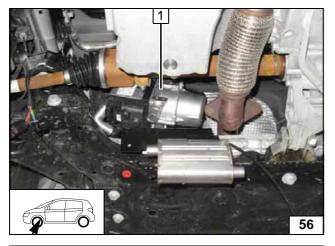


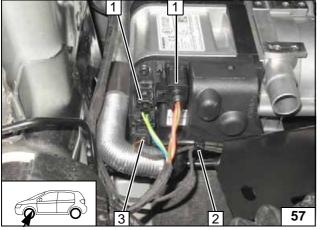


Mounting fuel line









74 / 92 / 110 kW Focus, C-Max and	

# Grand C-Max

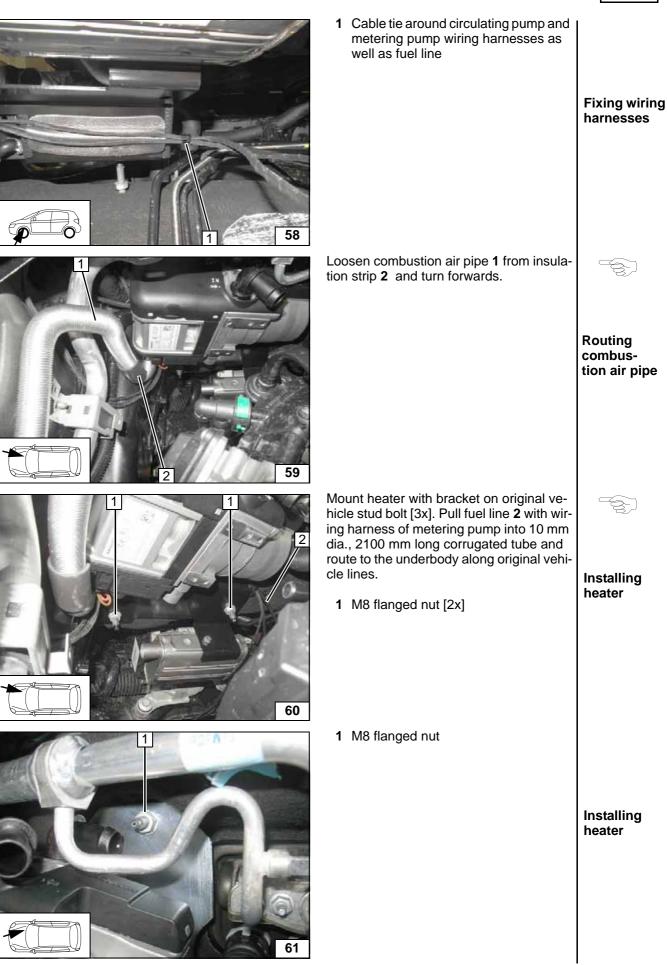
- 1 M6x16 bolt, spring lockwasher
- 2 Exhaust silencer

Insulation strips
 Fuel line

Installing exhaust silencer

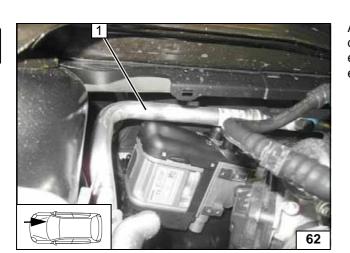
# Installing Heater Image: Second S











Align heater as shown. Ensure sufficient distance from neighbouring components, especially from A/C line **1**, correct if necessary.

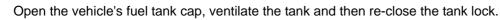


Installing heater

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



Fuel



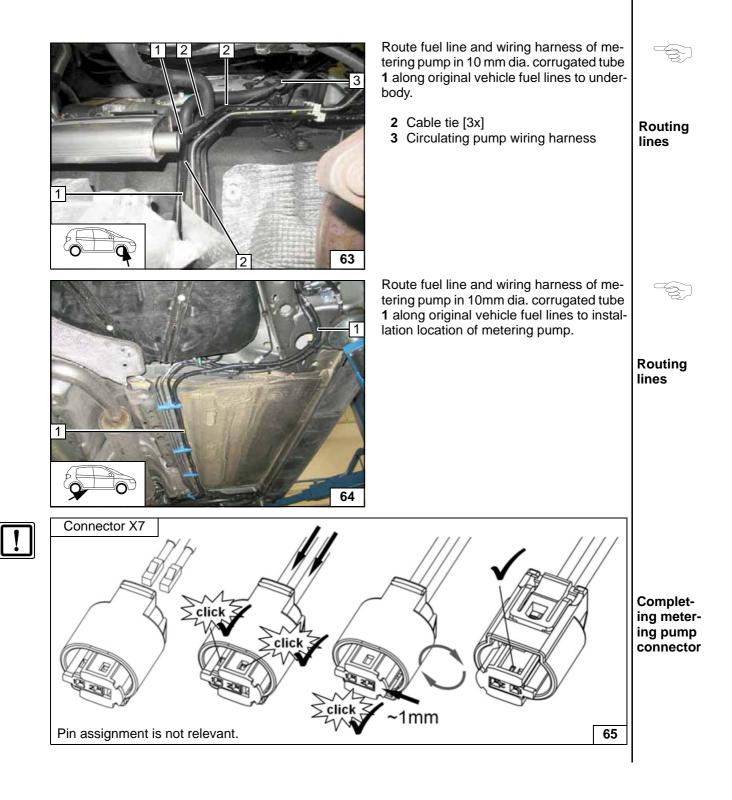


Catch any fuel running off in an appropriate container.



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.





O

O

hole

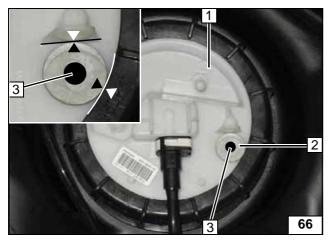
Copying

hole pat-

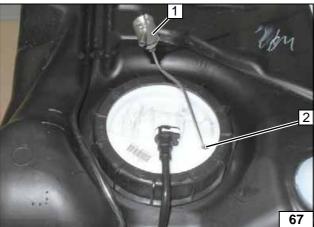
tern, drilling

i













# Installing FuelFix

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

Work steps F1, F2 and F3.

- **1** Fuel tank sending unit
- 2 Position washer with outer dia. d<sub>a</sub> = 21.6 mm as template against the raised parts
- 3 Hole pattern, hole made with provided drill

Work steps F4 and F5.

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

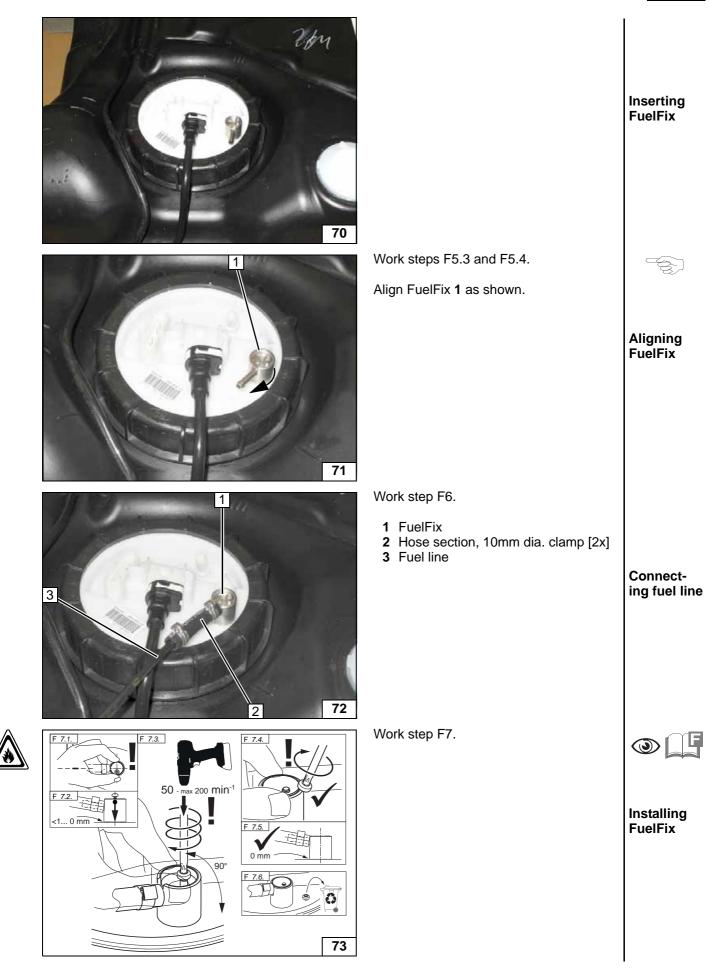


Inserting FuelFix

Inserting FuelFix

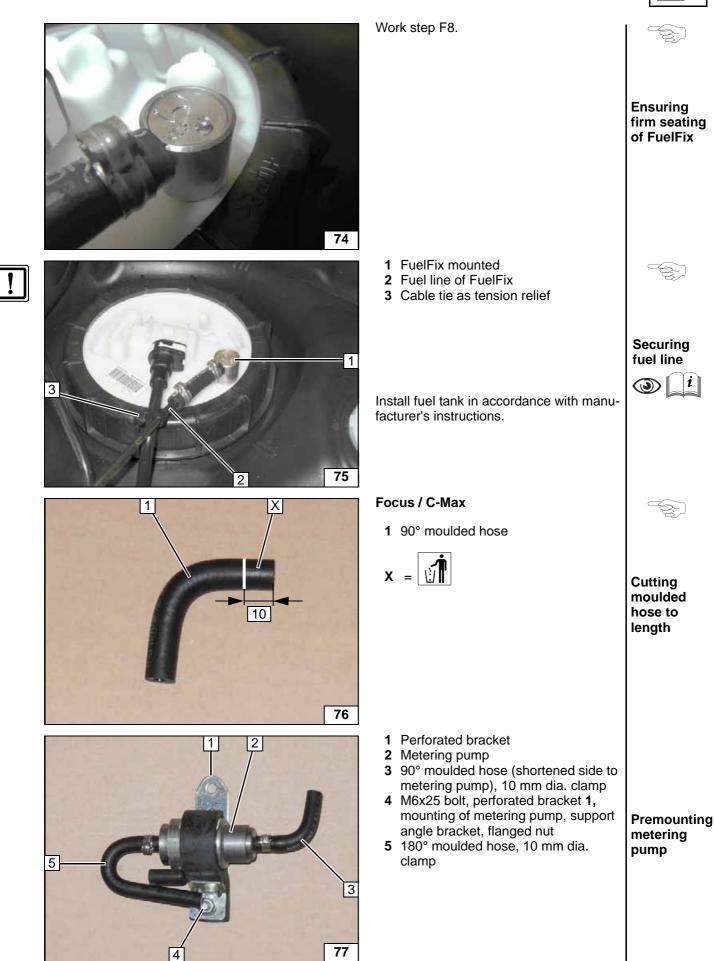
Inserting FuelFix



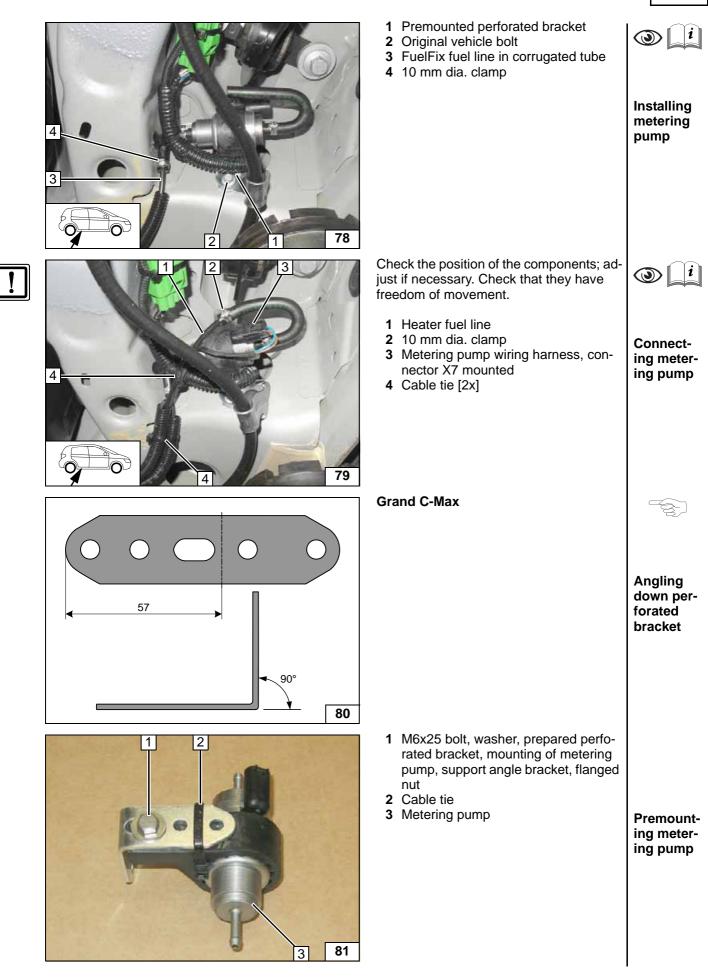




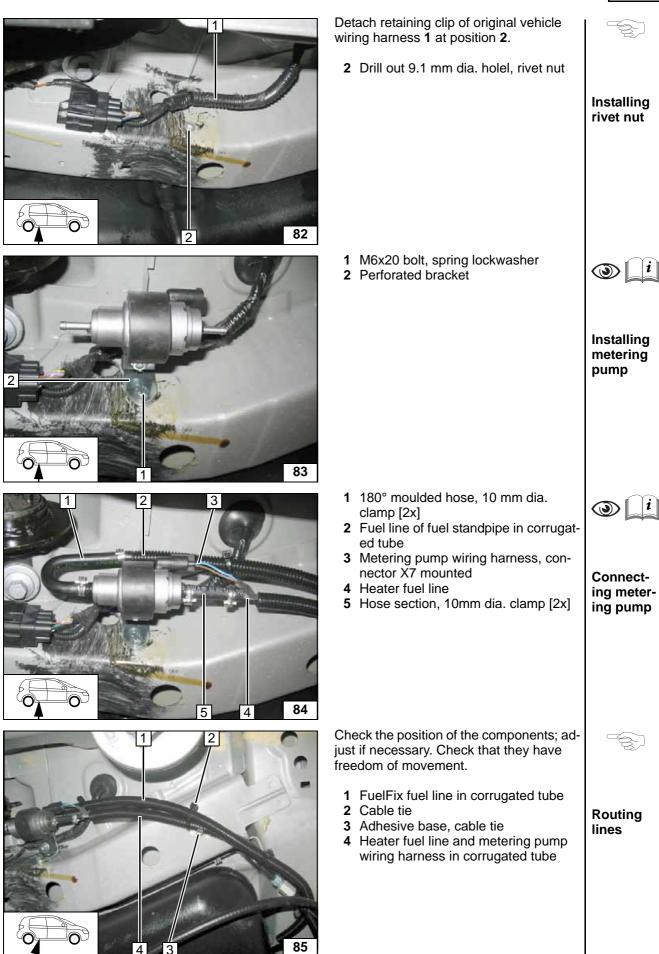
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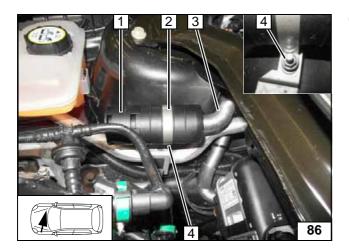












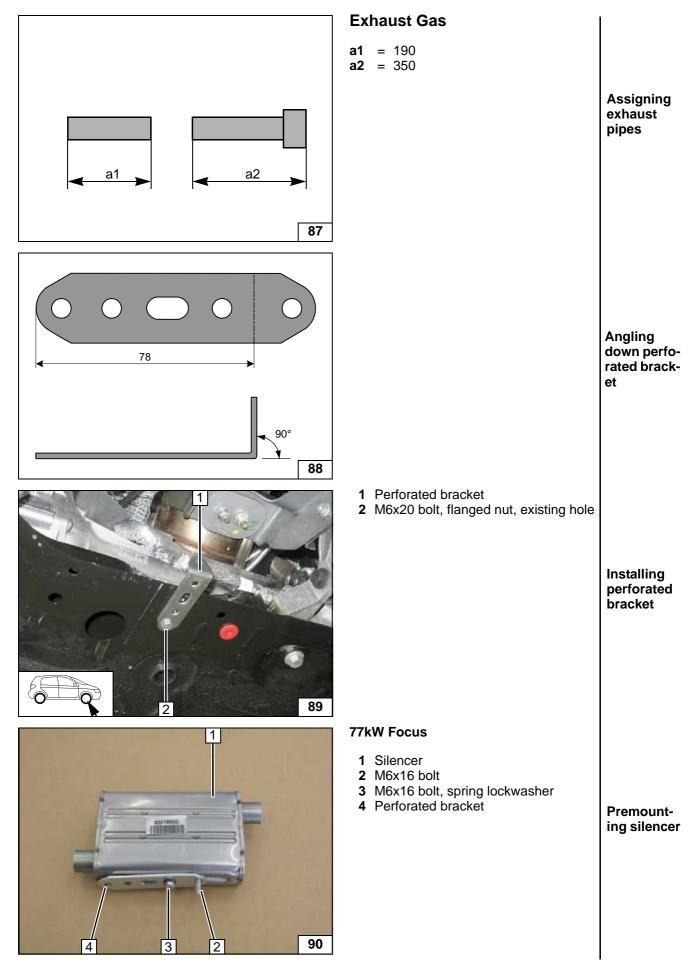
# **Combustion Air**

- 1 Silencer
- 2 51 mm dia. clamp
- 3 Combustion air pipe4 M5x16 bolt, washer, existing hole, clamp 2, flanged nut

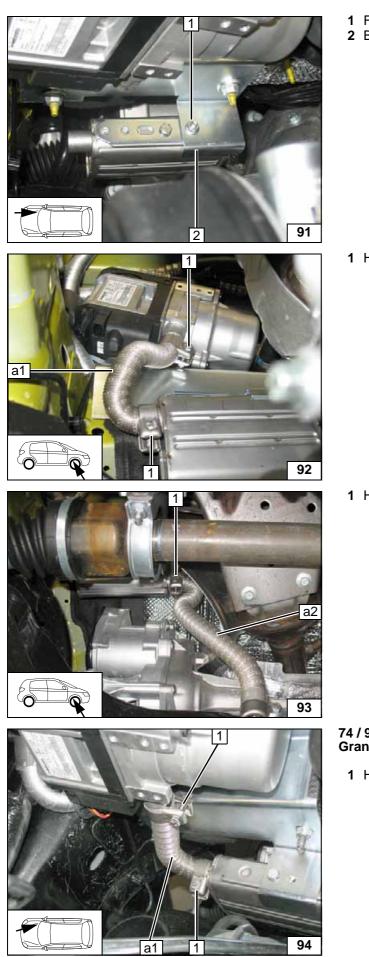


Installing silencer



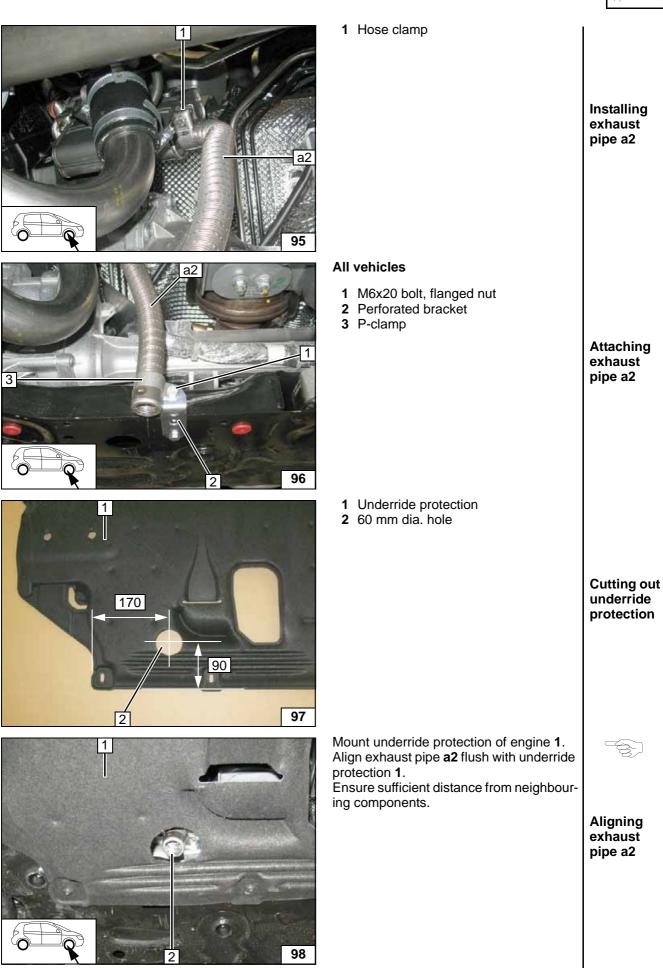






Flanged nut Bracket	Installing silencer
Hose clamp [2x]	Installing exhaust pipe a1
Hose clamp	Installing exhaust pipe a2
<b>/ 92 / 110 kW Focus, C-Max and and C-Max</b> Hose clamp [2x]	Installing exhaust pipe a1





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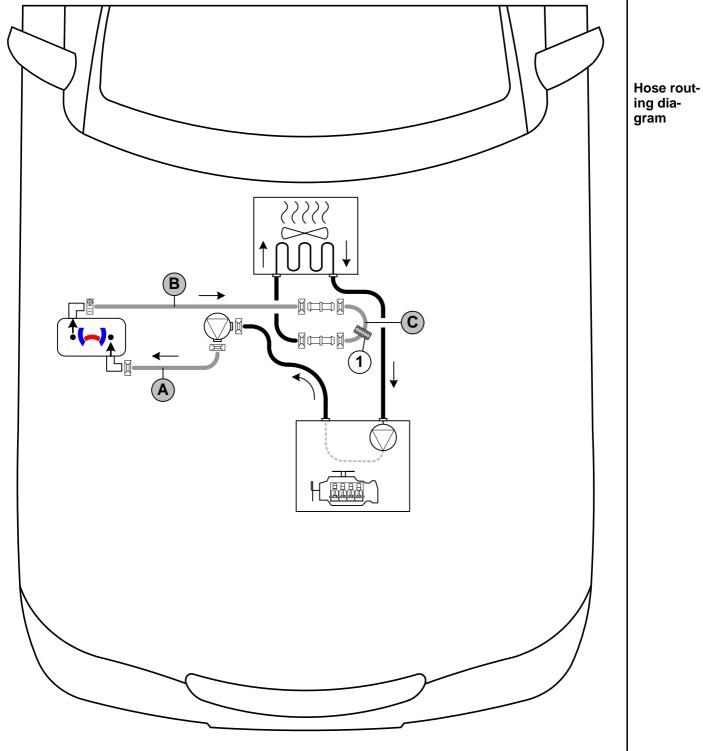


# **Coolant Circuit**



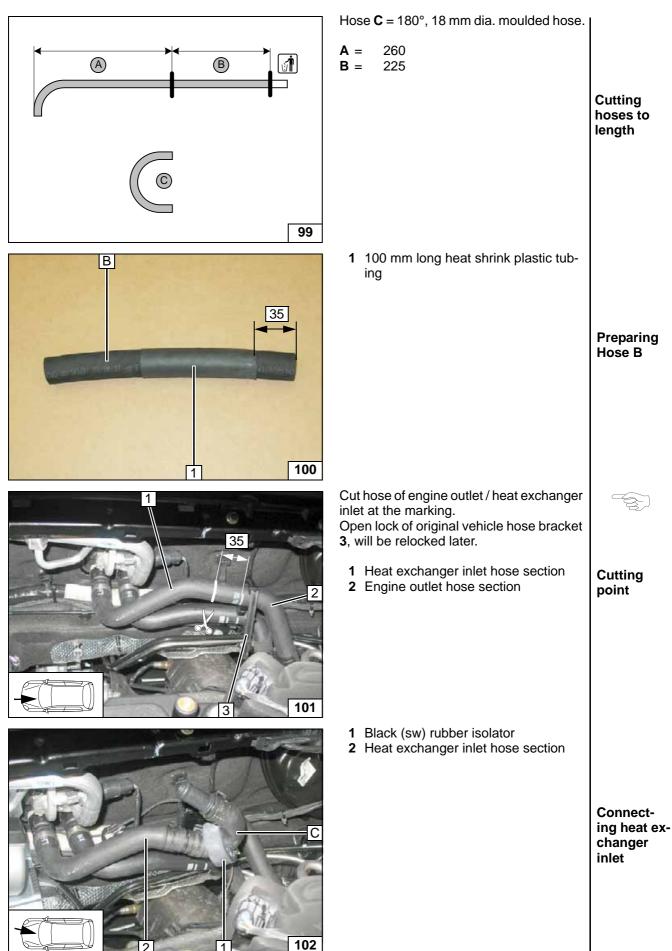
Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses.

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

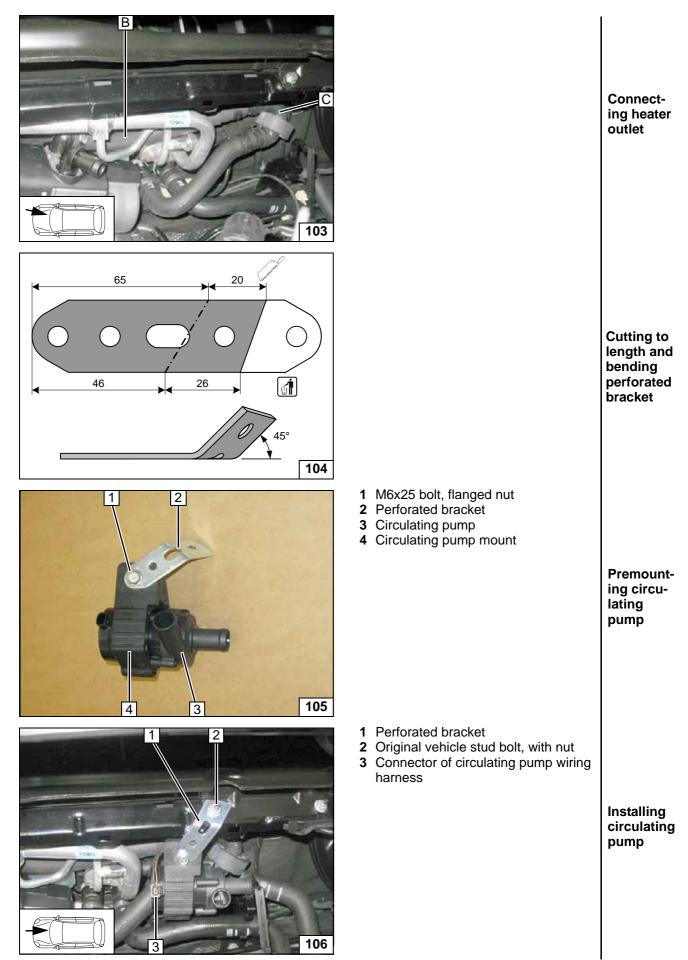


All spring clips = 25 mm dia. Hose clamp  $\oplus 111 = 20-27 \text{ mm}$  dia. All connecting pipes  $\oplus 11 = 18x18 \text{ mm}$  dia. **1** = Black (sw) rubber isolator

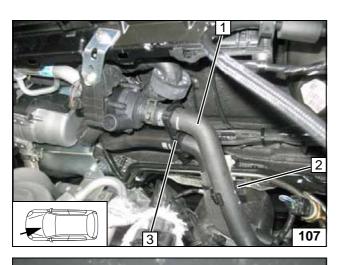




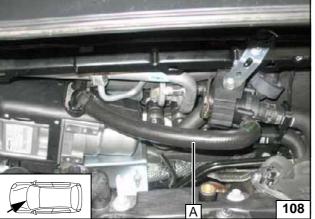








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 1
 Engine outlet hose

 2
 Hose bracket

 3
 Close lock of hose bracket

 4
 Connecting engine outlet

 a
 Connecting engine outlet

 Align hoses.
 Ensure sufficient distance from neighbouring components.

Connecting heater inlet

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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).

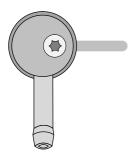
- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Program MultiControl CAR, teach Telestart transmitter.
- Make settings on the A/C control panel according to the 'operating instructions'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.

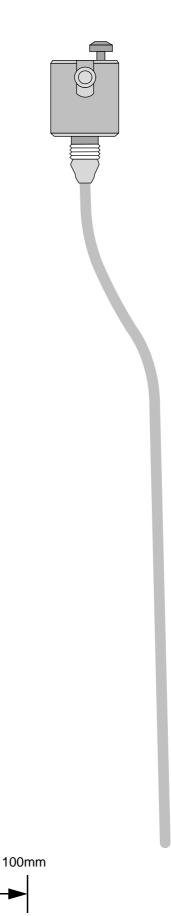
Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



# **FuelFix Template**

Top view





100mm

Scale 1:1

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.

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A/C control panel

# **Operating Instructions for Manual A/C for Focus up to MY 14**

Please remove page and add to the vehicle operating instructions.

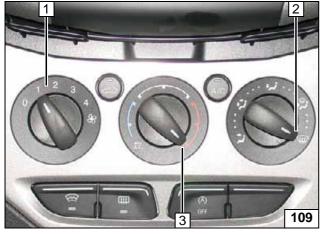
Note:

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
- Engine compartment fuses

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



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# **Operating Instructions for Manual C-Max/Grand C-Max A/C**

Please remove page and add to the vehicle operating instructions.

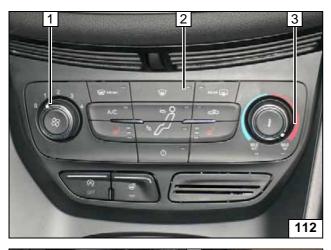
Note:

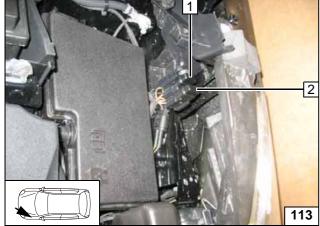
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

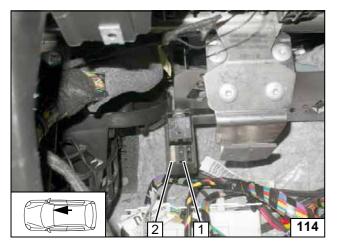
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

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



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# **Operating Instructions for Automatic A/C Focus up to MY 14**

Please remove page and add to the vehicle operating instructions.

Note:

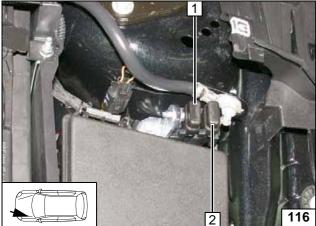
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

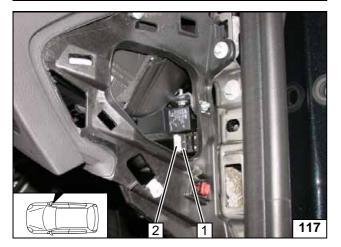
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







Fan speed need not be pre-set.

- 1 Set temperature on both sides to 'HI'
- 2 Air outlet to windscreen
- 1 30A passenger compartment main fuse F22 20A heater fuse F1
- Engine compartment fuses

A/C control panel

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



# **Operating Instructions for Automatic A/C C-Max/Grand C-Max**

Please remove page and add to the vehicle operating instructions.

Note:

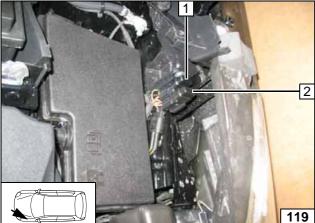
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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 30A passenger compartment main fuse F22 20A heater fuse F1

Fan speed need not be pre-set.

2 Air outlet to windscreen

1 Set temperature on both sides to 'HI'

**1** 1A heater control fuse F3

2 25A fan fuse F4





A/C control panel

Engine compartment fuses

