



Water Heater

Thermo Top Evo Parking Heater



With FuelFix

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

Validity

Manufacturer	Model	Type	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 ³	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

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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_**

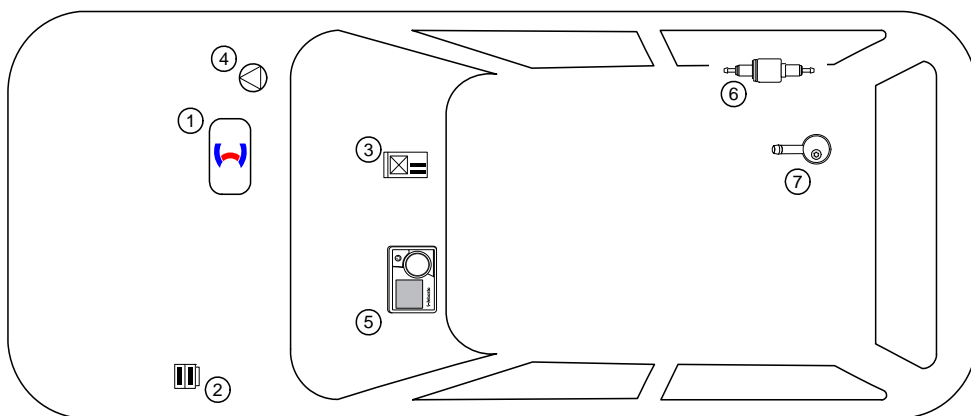
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about ¼ 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 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

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.

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 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.

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 - 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

- 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:

Mechanical System



Electrical System



Coolant Circuit



Combustion Air



Fuel



Exhaust Gas



Software



Specific risk of damage to components.



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.



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



Tightening torque according to the manufacturer's vehicle-specific documents.



Preliminary Work

Vehicle



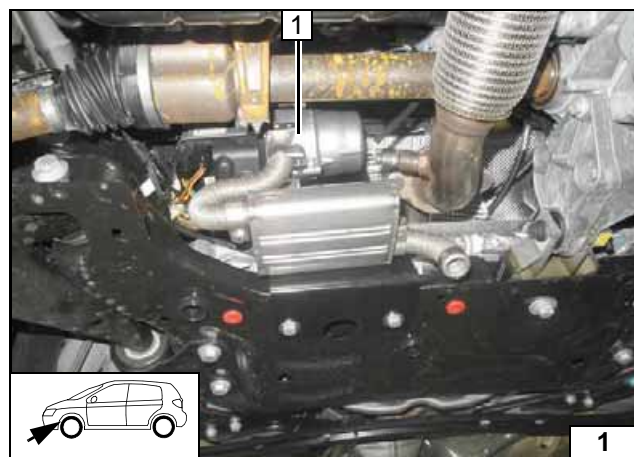
- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and remove the battery.
- Remove the engine cover.
- Remove the windscreen wiper.
- Remove the upper cover of the coolant reservoir.
- Remove the cover of the coolant 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

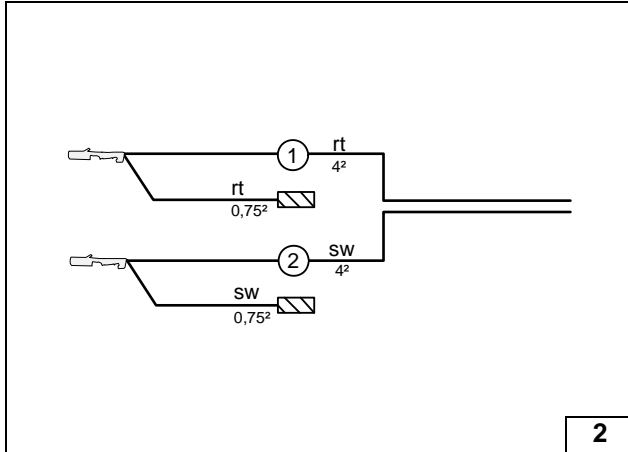
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



Heater Installation Location

- 1 Heater

Installation location



Preparing Electrical System

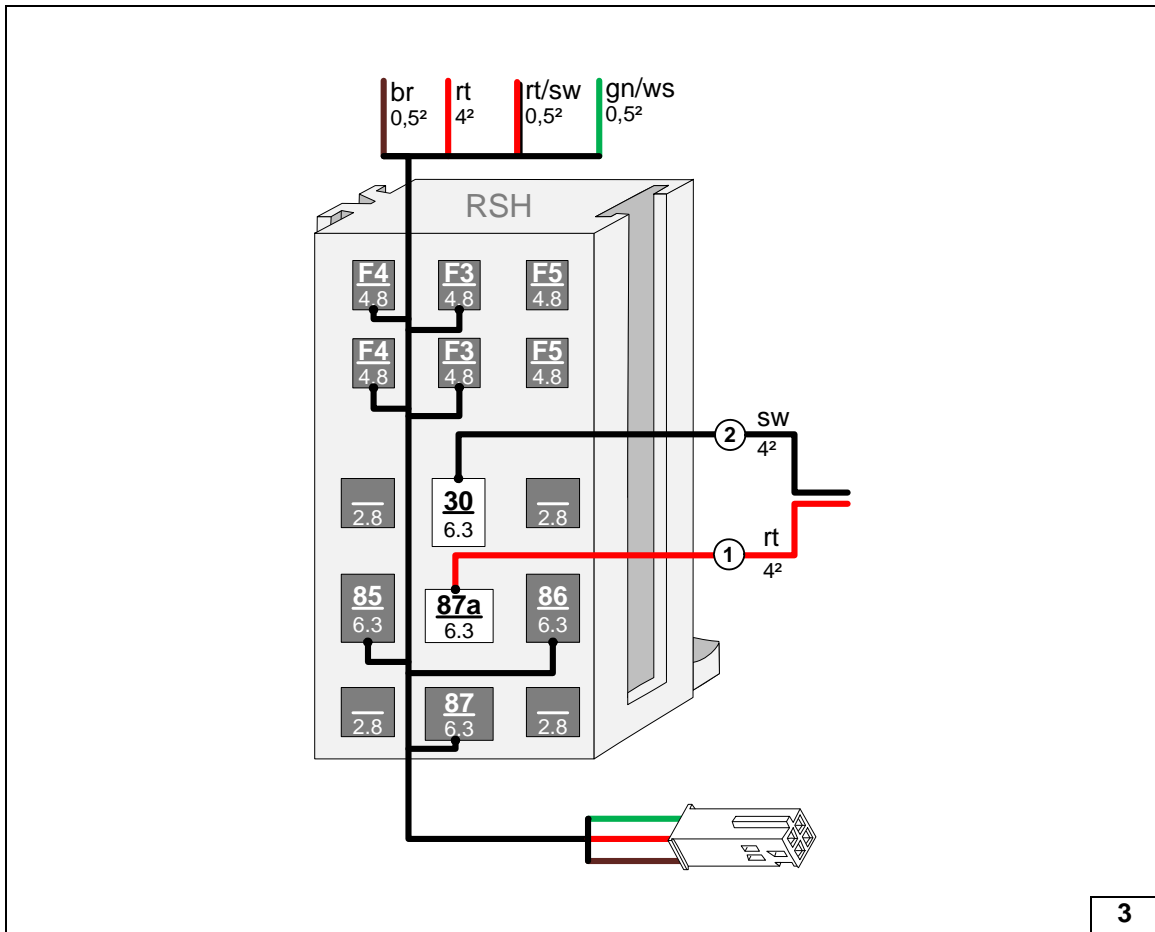
Wire sections retain their numbering in the entire document.

Manual air-conditioning

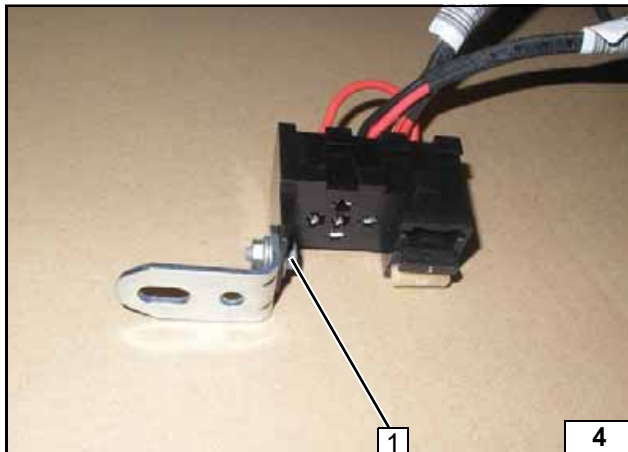
- ① Red (rt) wire of fan wiring harness
- ② Black (sw) wire of fan wiring harness



Assigning wires



Connecting wires to passenger compartment relay and fuse holder



Focus only

- 1 M5x16 bolt, large diameter washer, passenger compartment relay and fuse holder, angle bracket, large diameter washer, nut

Premounting angle bracket

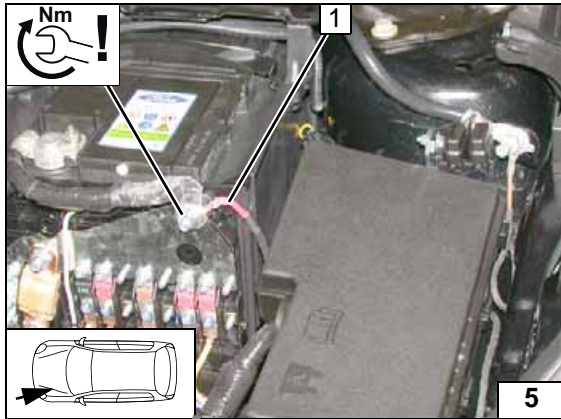


Wiring Harness Routing for Focus



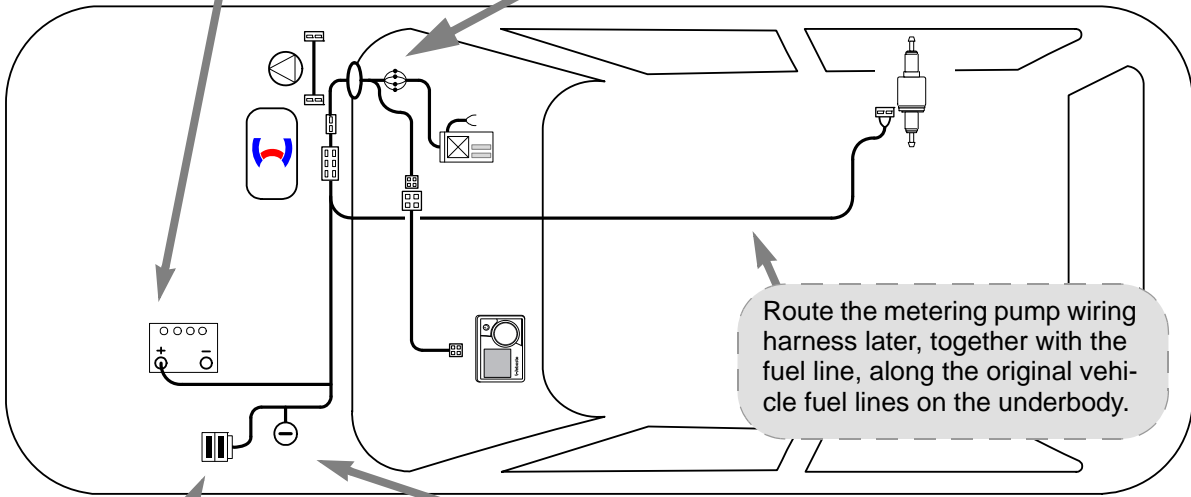
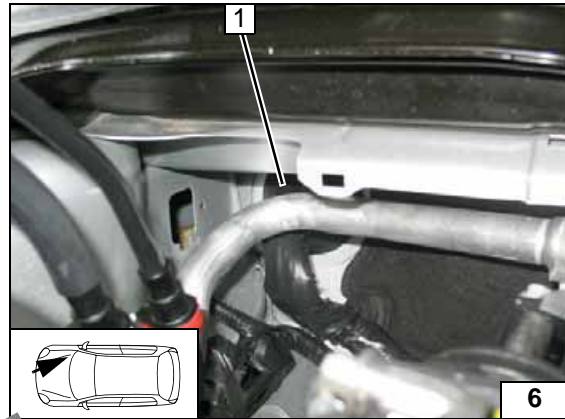
Positive wire

- 1 Positive wire on positive support point

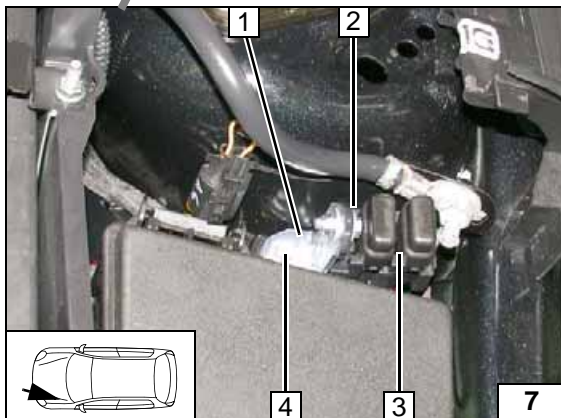


Wiring harness pass through

- 1 Protective rubber plug

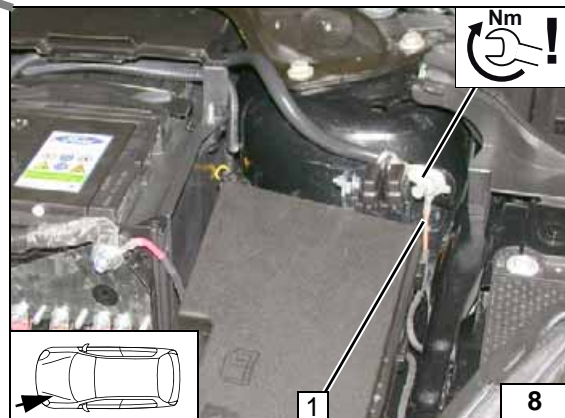


Wiring harness routing diagram (manual A/C)



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



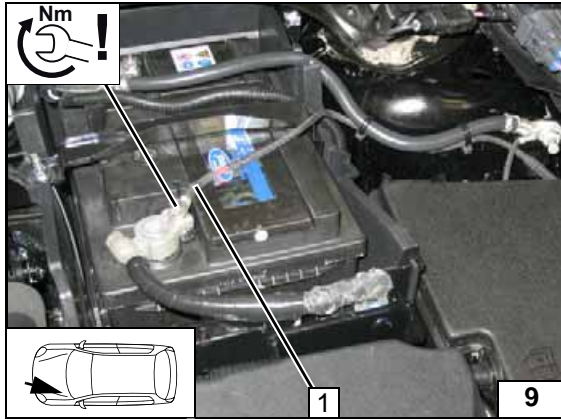


Wiring Harness Routing for C-Max / Grand C-Max



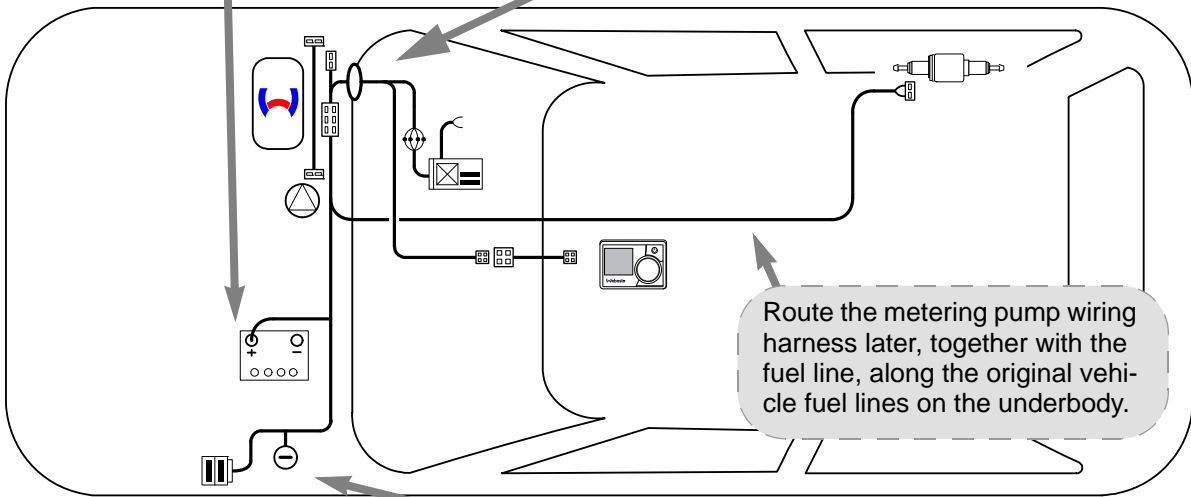
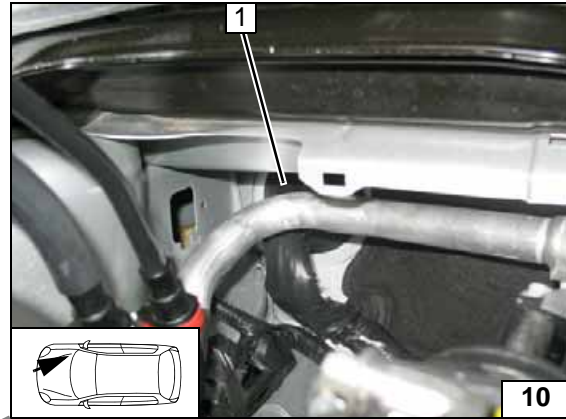
Positive wire

- 1 Positive wire on positive battery terminal

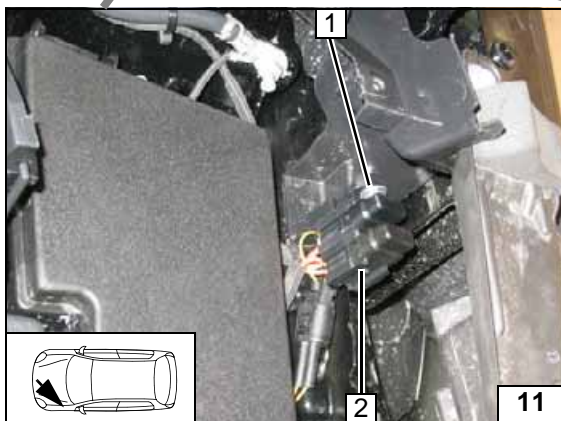


Wiring harness pass through

- 1 Protective rubber plug



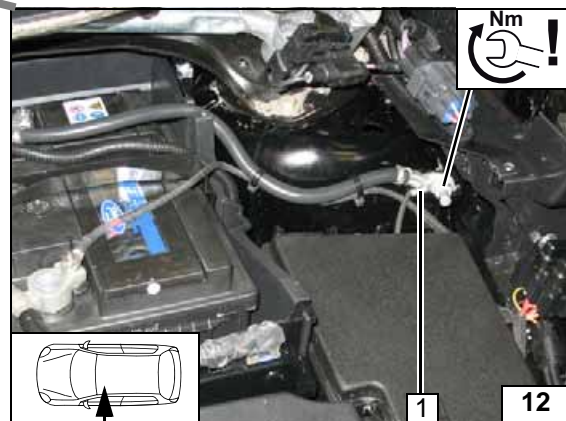
Wiring harness routing diagram (manual A/C)



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



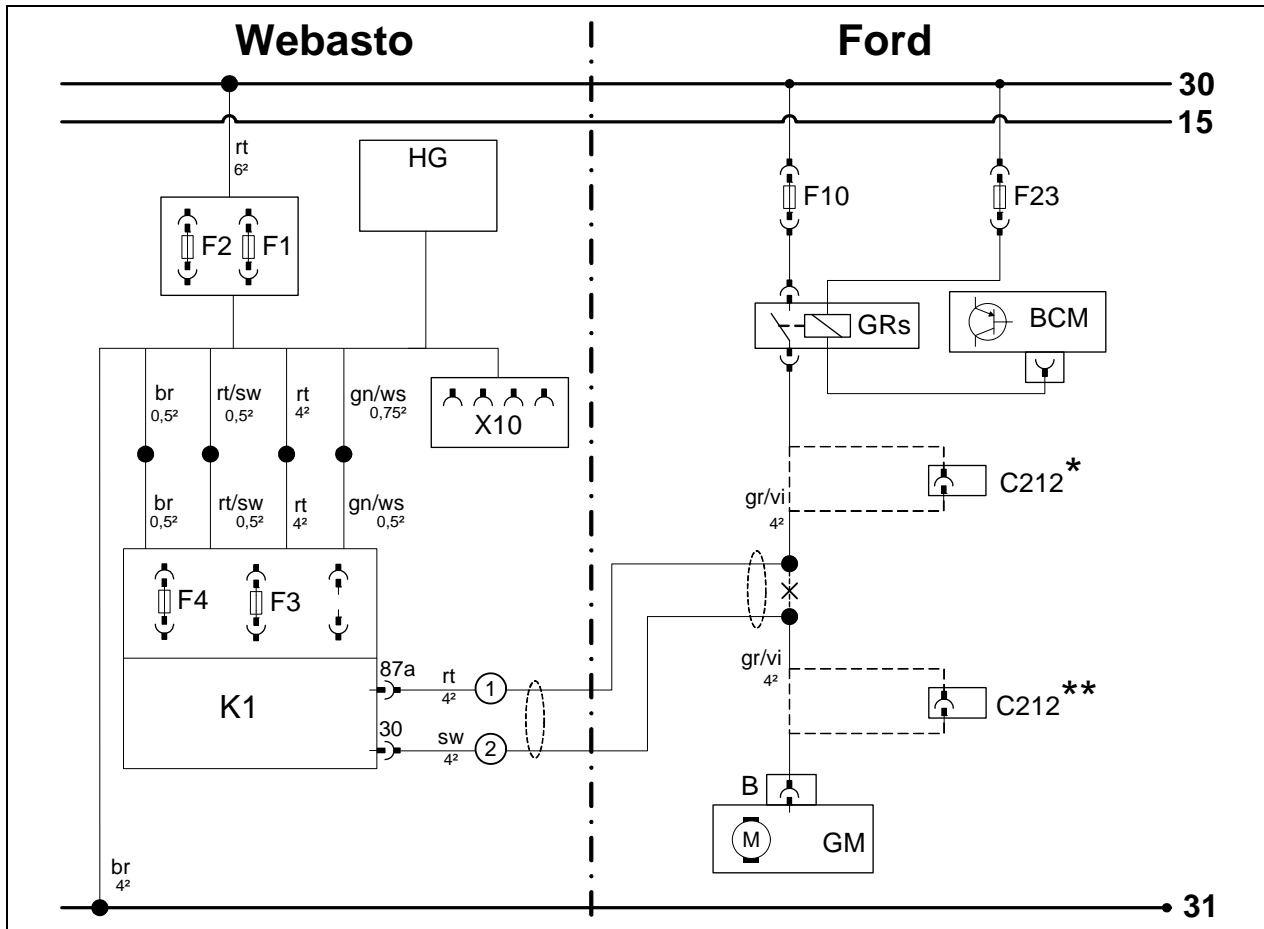
Earth wire

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





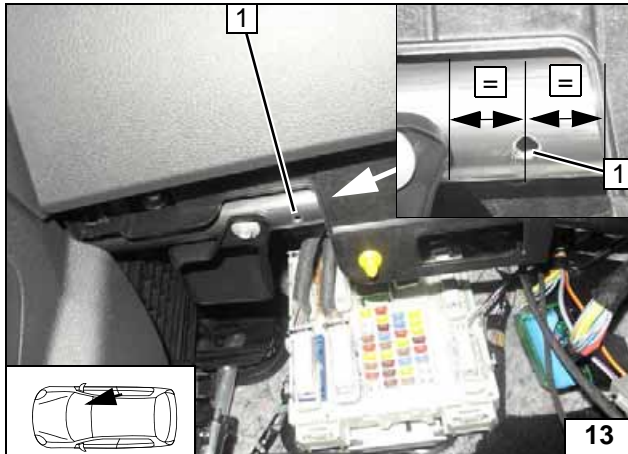
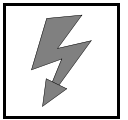
Manual Air-Conditioning Fan Controller



System wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	F10	40A fuse	rt	red
F1	20A fuse	F23	5A fuse	sw	black
F2	30A fuse	BCM	Body control unit	gn	green
X10	4-pin connector of heater control	GRs	Fan relay	ws	white
F3	1A fuse	C212*	Connector for Focus	br	brown
F4	25A fuse	C212**	Connector for C-Max / Grand C-Max	gr	grey
K1	Fan relay	GM	Fan motor	vi	violet
		B	Fan motor connector	X	Cutting point
				Wiring colours may vary.	

Legend

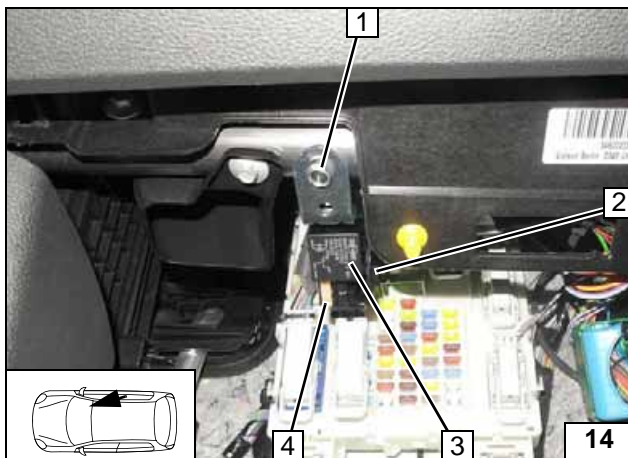


Fan Controller for Focus

- 1 5mm dia. hole

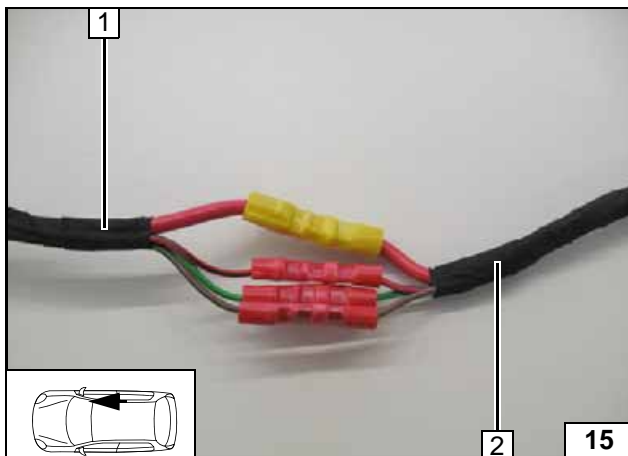


Drilling hole in instrument panel carrier



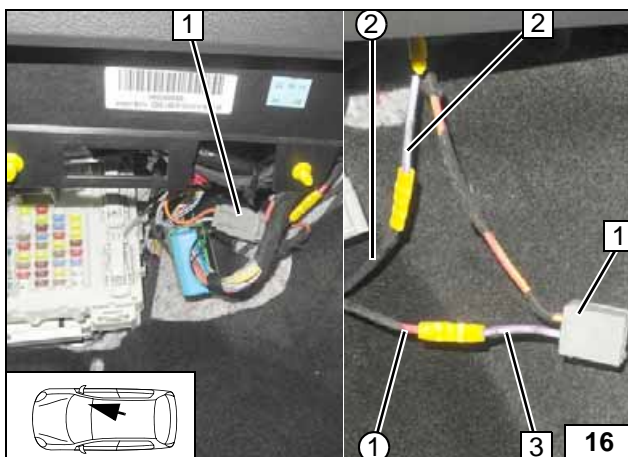
- 1 Self-tapping screw, angle bracket pre-mounted
- 2 Passenger compartment relay and fuse holder
- 3 Relay K1
- 4 25A fuse F4

Installing passenger compartment relay and fuse holder



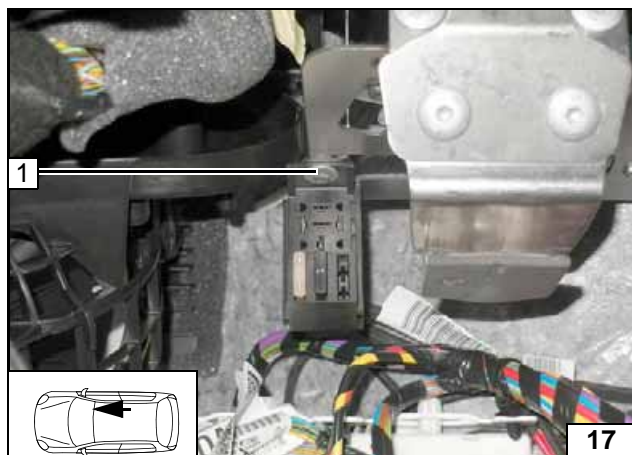
- 1 Passenger compartment relay and fuse holder wiring harness
- 2 Heater wiring harness

Connecting same colour wires of wiring harnesses



- 1 Connector C212
- 2 Grey/violet (gr/vi) wire of GRs connector
- 3 Grey/violet (gr/vi) wire of connector C212
- ① Red (rt) wire of K1/87a, fan wiring harness
- ② Black (sw) wire of K1/30, fan wiring harness

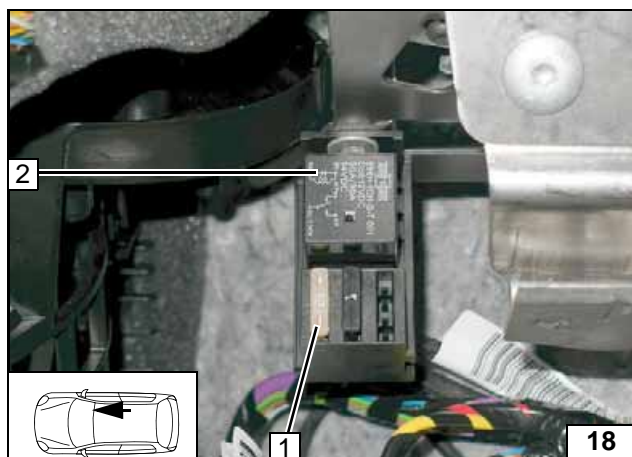
Connecting fan motor



Fan Controller for C-Max / Grand C-Max

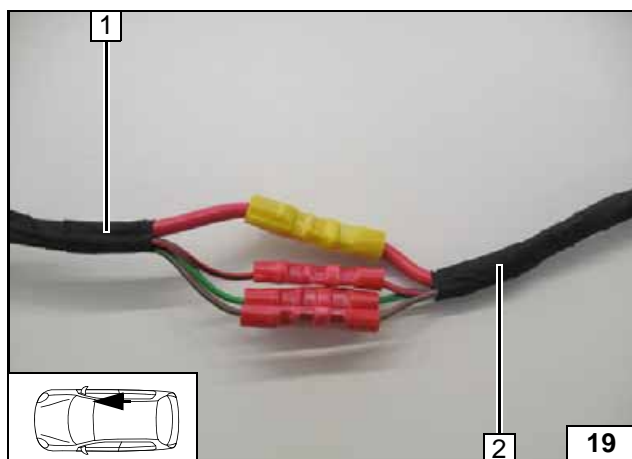
- 1 M5x16 bolt, large diameter washer, passenger compartment relay and fuse holder tab, original vehicle hole, large diameter washer, nut

Installing passenger compartment relay and fuse holder



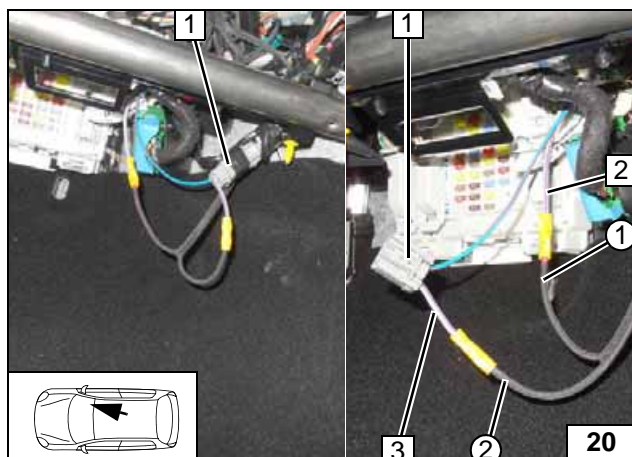
- 1 25A fuse F4
- 2 Relay K1

Inserting fuse F4 and relay K1



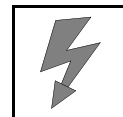
- 1 Passenger compartment relay and fuse holder wiring harness
- 2 Heater wiring harness

Connecting same colour wires of wiring harnesses



- 1 Connector C212
- 2 Grey/violet (gr/vi) wire of GRs
- 3 Grey/violet (gr/vi) wire of connector C212
- ① Red (rt) wire of K1/87a, fan wiring harness
- ② Black (sw) wire of K1/30, fan wiring harness

Connecting fan motor



Automatic A/C Control

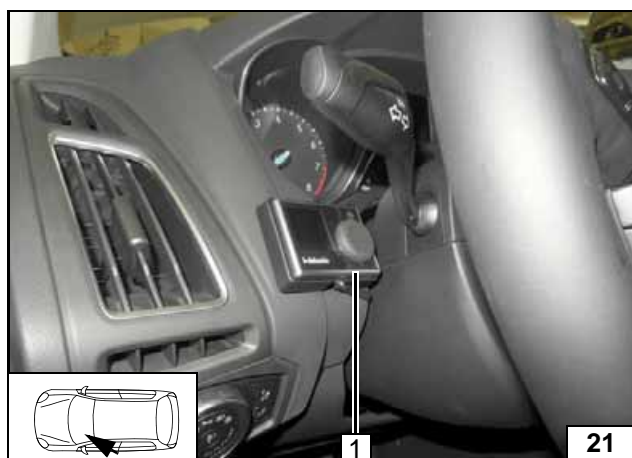


The connection of the A/C control has to be carried out in accordance with the separate installation documentation:

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



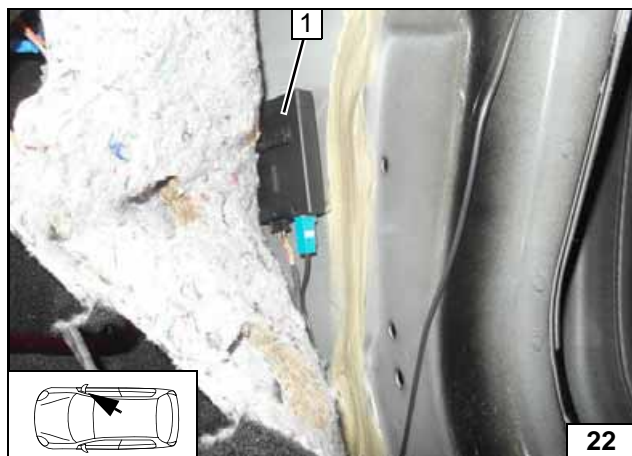
Focus Heater Control

MultiControl CAR Option

- 1 Installation frame



Installing
MultiControl
CAR

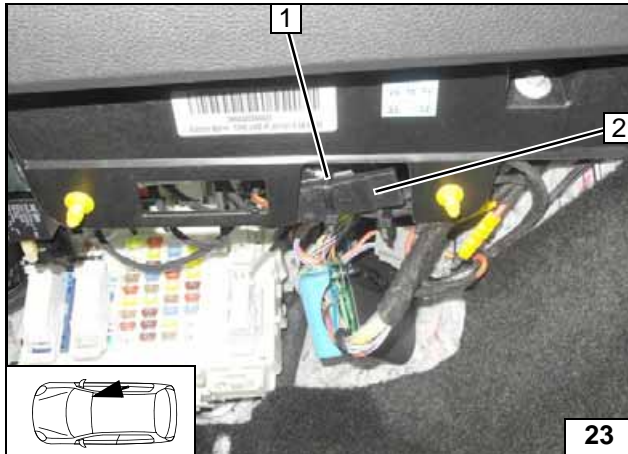
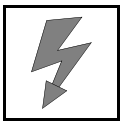


Remote Option (Telestart)

Fasten receiver 1 with double-sided adhesive tape.



Installing
receiver

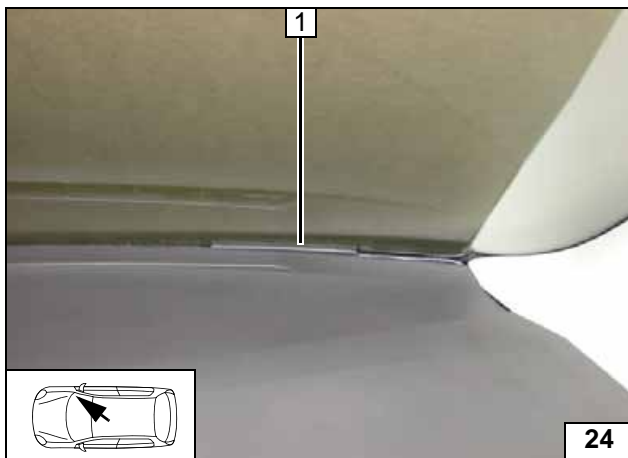


Temperature sensor T100 HTM

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



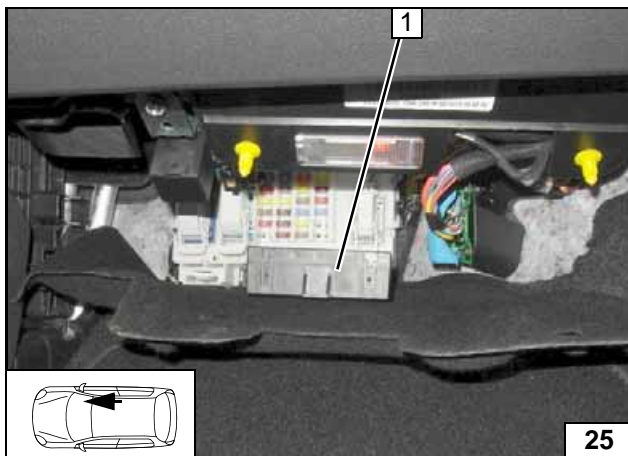
Installing temperature sensor



1 Aerial



Installing aerial

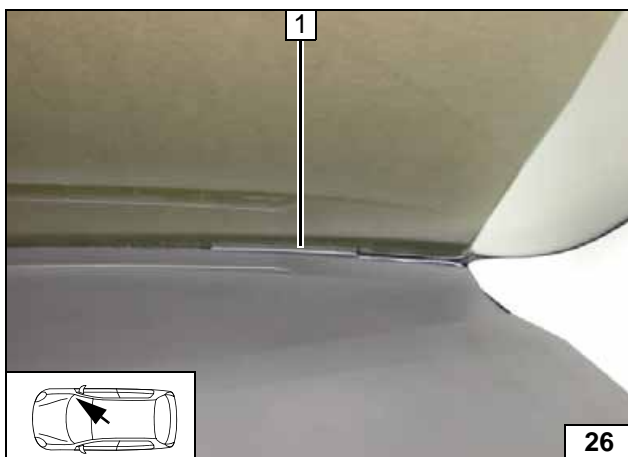


ThermoCall Option

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



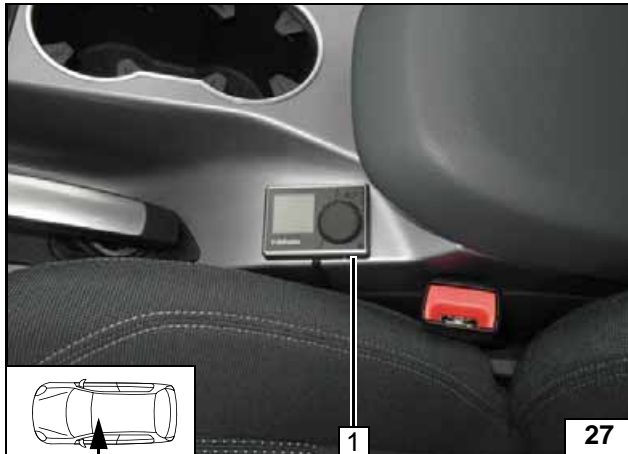
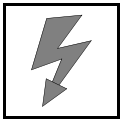
Installing receiver



1 Aerial (optional)



Installing aerial



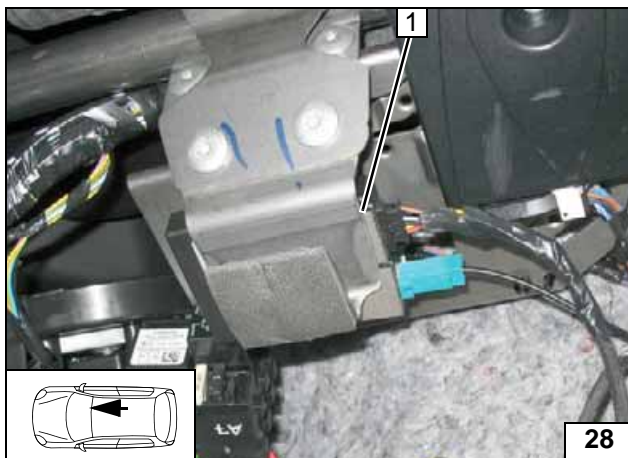
C-Max / Grand C-Max Heater Control

MultiControl CAR Option

- 1 Installation frame



Installing MultiControl CAR

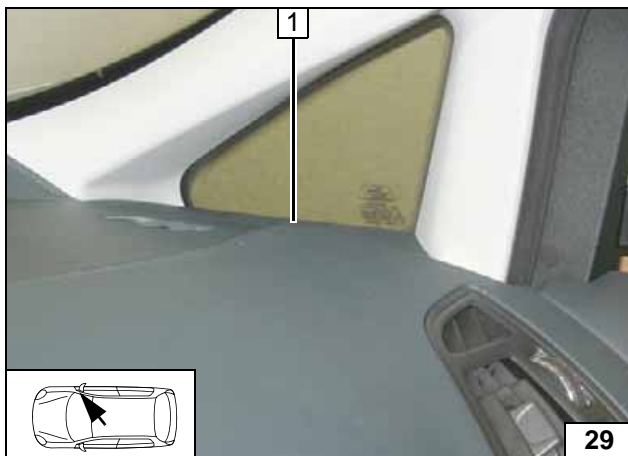


Remote Option (Telestart)

Fasten receiver 1 with double-sided adhesive tape.

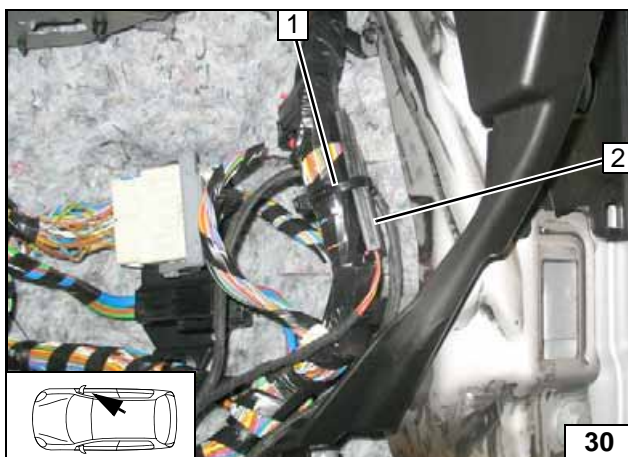


Installing receiver



- 1 Aerial

Installing aerial

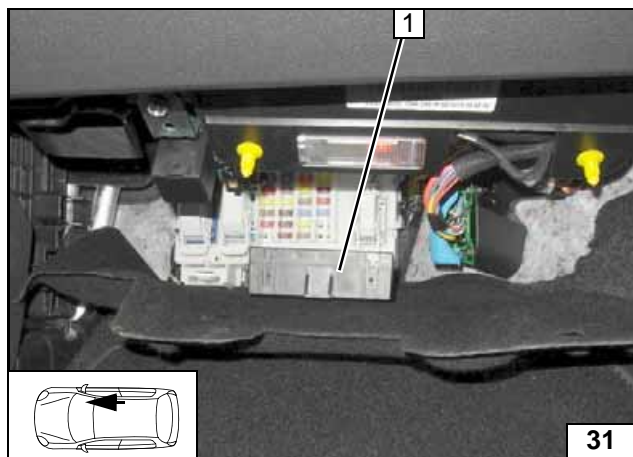


Temperature sensor T100 HTM

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



Installing temperature sensor

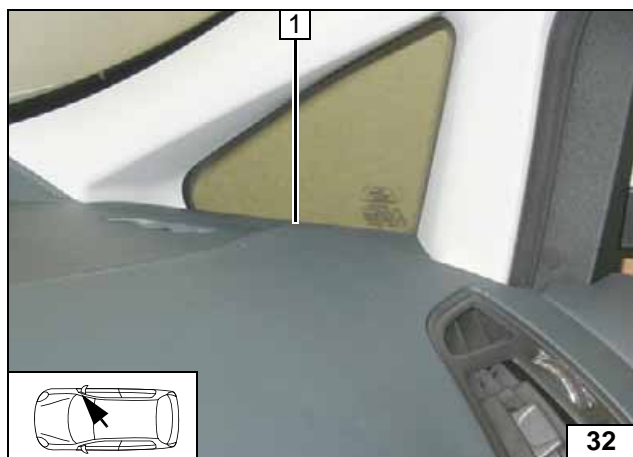


ThermoCall Option

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

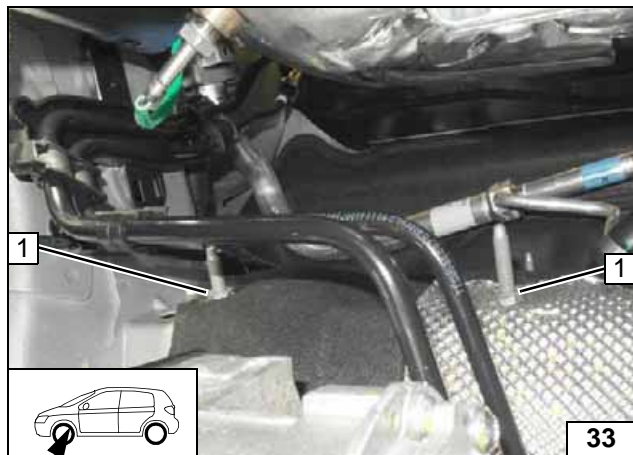


Installing receiver



1 Aerial (optional)

Installing aerial

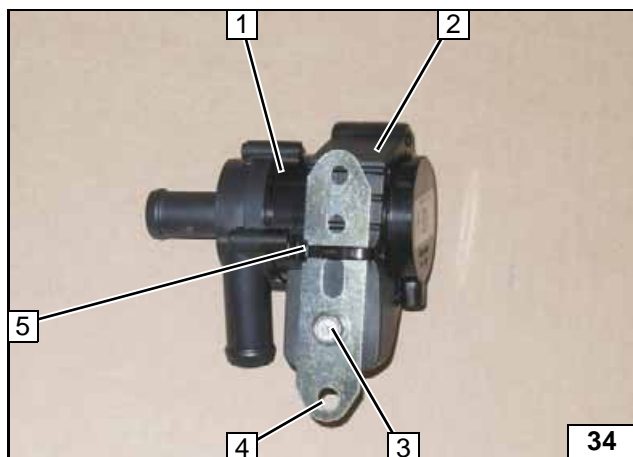


Preparing Installation Location

Screw M8 flanged nut 1 [2x] as far as it will go on the original vehicle stud bolt (nut is shown in the engine compartment).

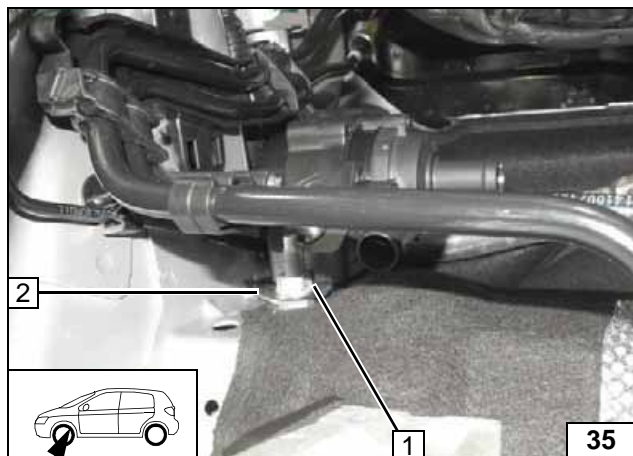


Premounting flanged nut



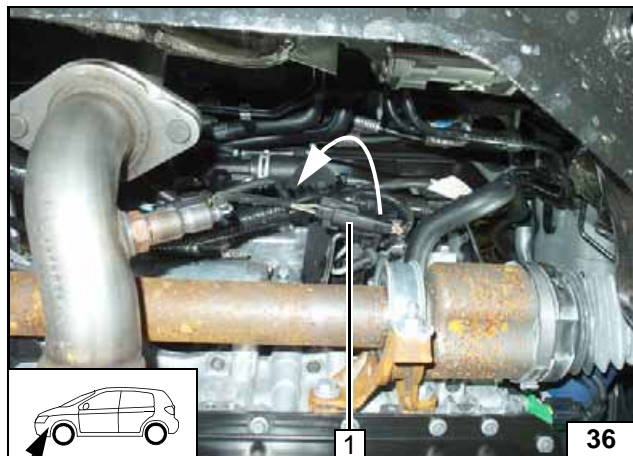
- 1 Circulating pump
- 2 Circulating pump mount
- 3 M6x25 bolt, perforated bracket, flanged nut
- 4 Drill out hole to 8.5 mm dia.
- 5 Cable tie

Premounting circulating pump



- 1 M8 flanged nut
- 2 Perforated bracket

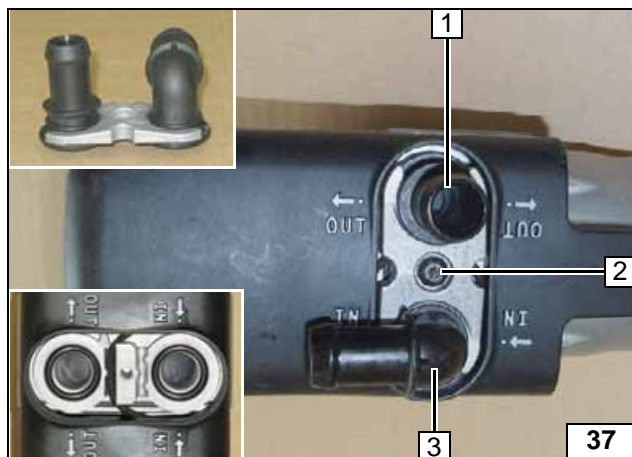
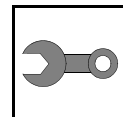
Installing circulating pump



Remove original vehicle connector 1 from bracket and attach again to original vehicle wiring harness using a cable tie.



Removing connector

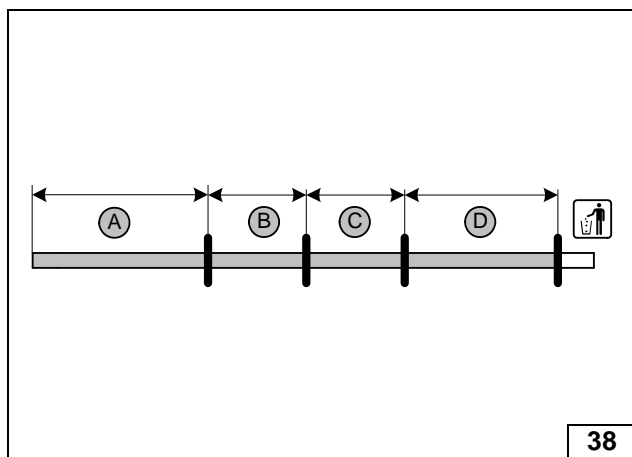


Preparing Heater

- 1 Axial water connection piece, sealing ring
- 2 5x15 self-tapping bolt, retaining plate of water connection piece
- 3 90° water connection piece, sealing ring

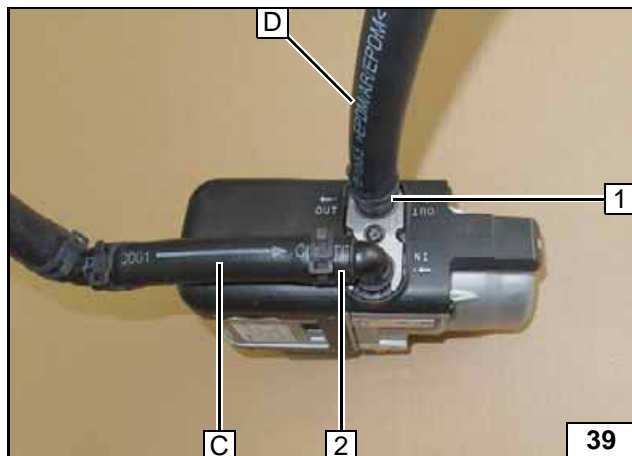


Installing water connection piece



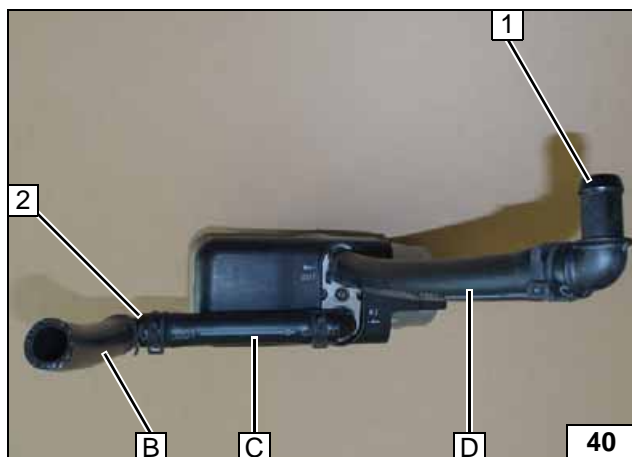
- A = 250
- B = 150
- C = 145
- D = 230

Cutting hoses to length



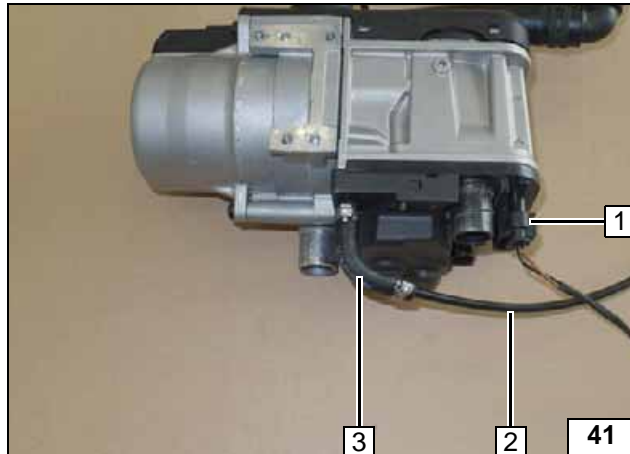
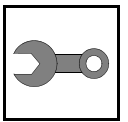
- 1 Heater outlet, 25mm dia. spring clip
- 2 Heater inlet, 25mm dia. spring clip

Installing hose C and D



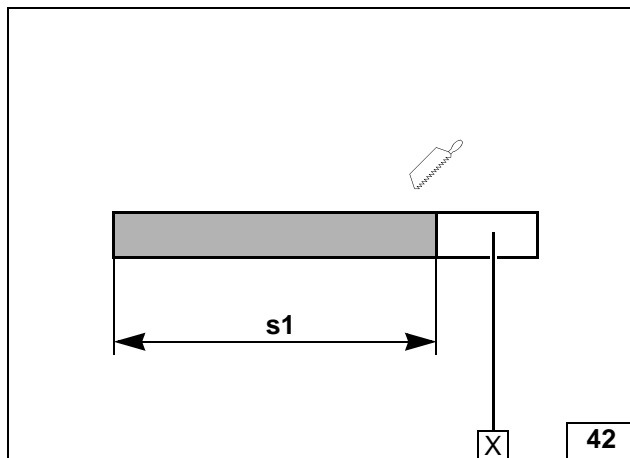
- 1 90°, 18x18 connecting pipe, 25 mm dia. spring clip
- 2 90°, 18x18 connecting pipe, 25 mm dia. spring clip [2x]

Installing hose B



- 1 Connector of circulating pump wiring harness
- 2 Fuel line
- 3 90° moulded hose, 10 mm dia. clamp [2x]

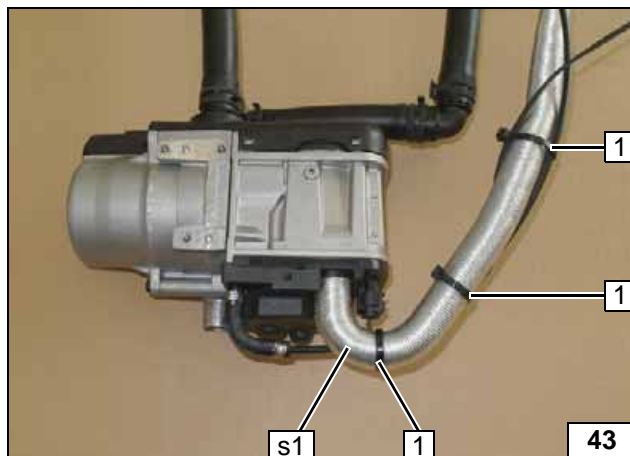
Installing circulating pump wiring harness and fuel line



s1 = 600

X =

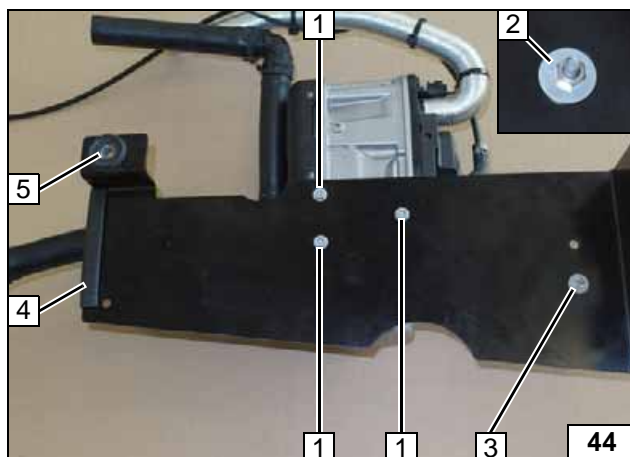
Cutting combustion air pipe to length



Fasten circulating pump wiring harness and fuel line to combustion air pipe s1 using cable tie 1 [3x].

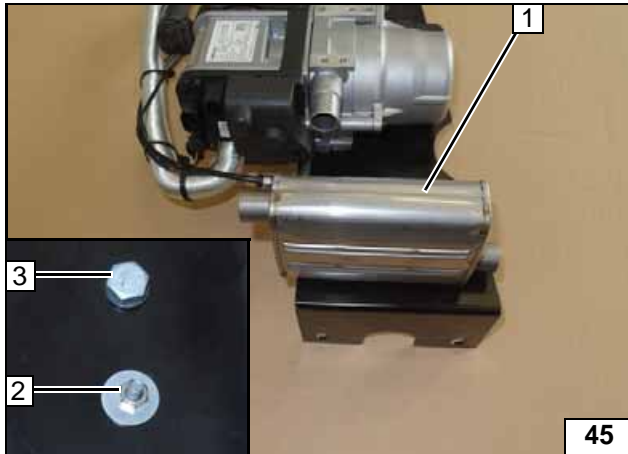
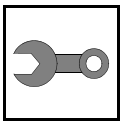


Installing combustion air pipe s1



- 1 5x13 self-tapping bolt [3x]
- 2 Twist protection (see position 3); rear view is shown here
- 3 M5x16 bolt, large diameter washer, nut (twist protection of exhaust silencer)
- 4 100mm edge protection
- 5 Rubber buffer with flanged sleeve

Installing bracket

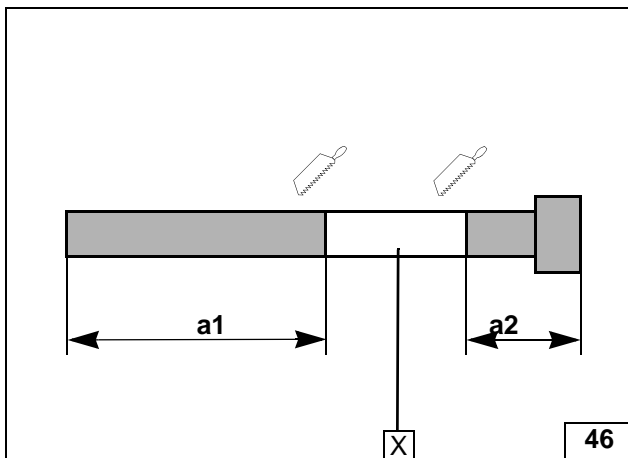


M5 bolt 2 serves as twist protection.

- 1 Exhaust silencer
- 3 M6x16 bolt, spring lockwasher



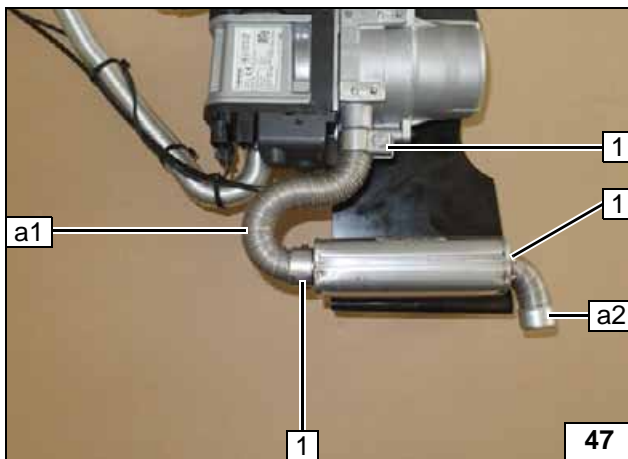
Installing exhaust silencer



a1 = 200
a2 = 93

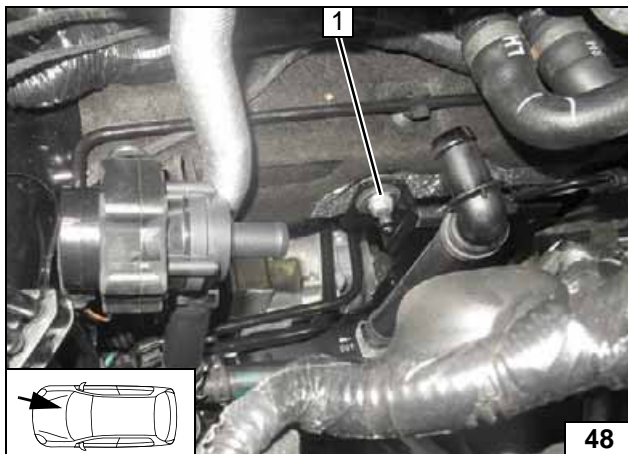
X =

Preparing exhaust pipe



- 1 Hose clamp [3x]

Installing exhaust pipes a1 and a2

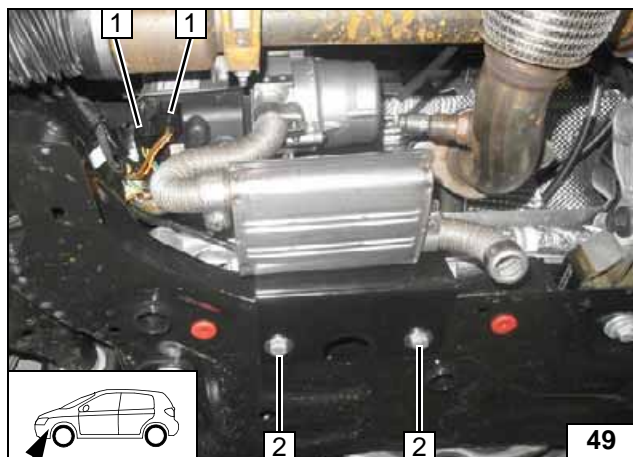


Installing Heater

- 1 M8 flanged nut, large diameter washer



Installing heater



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



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

Installing heater

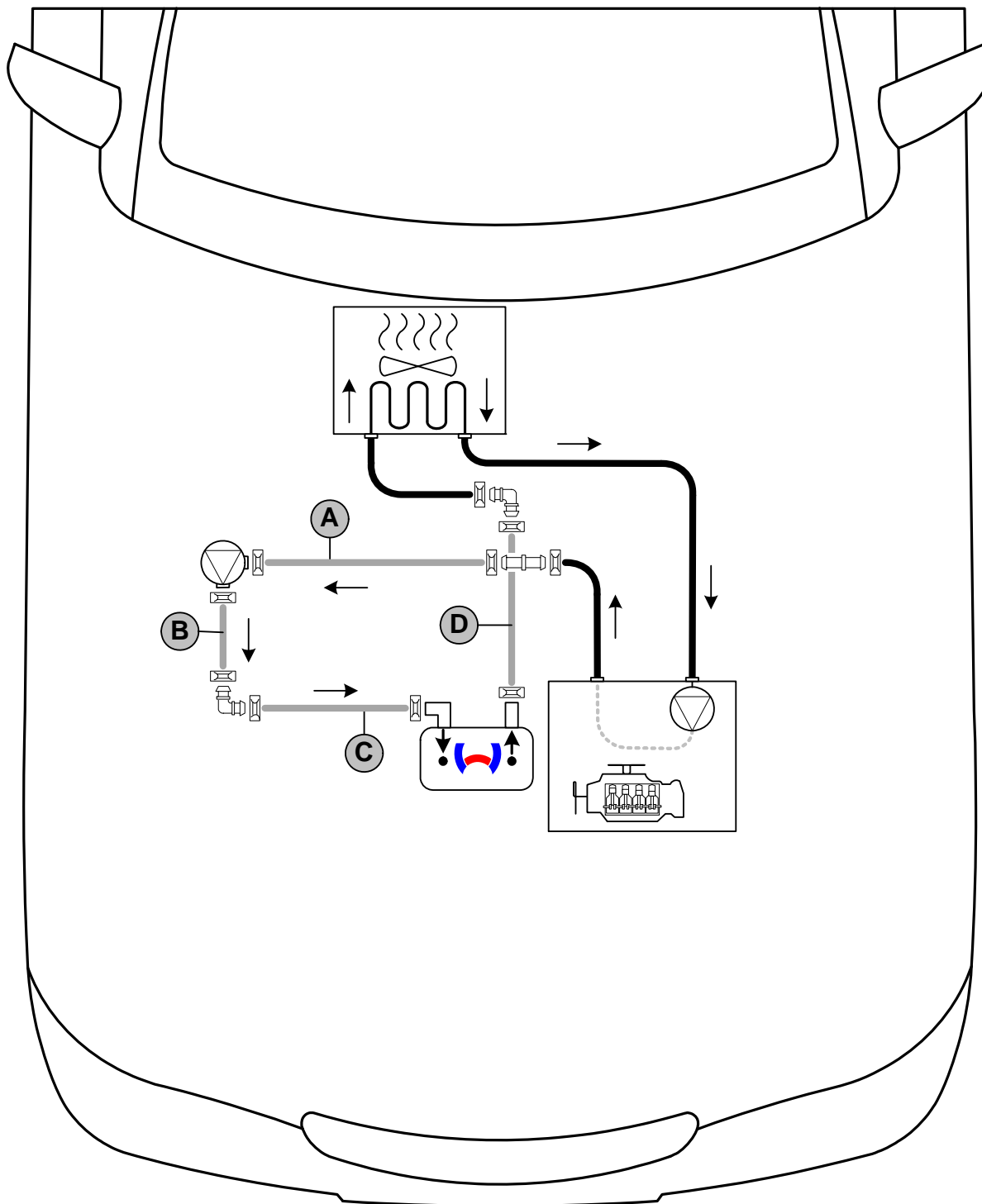


Coolant Circuit






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.

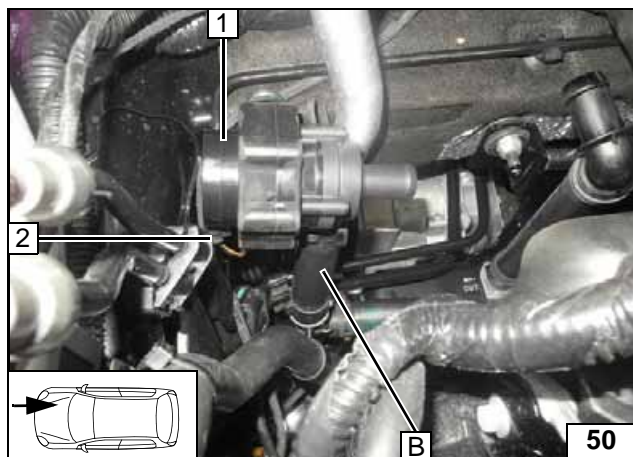
The connection should be modelled on an 'inline' circuit and based on the following diagram:



Hose routing diagram

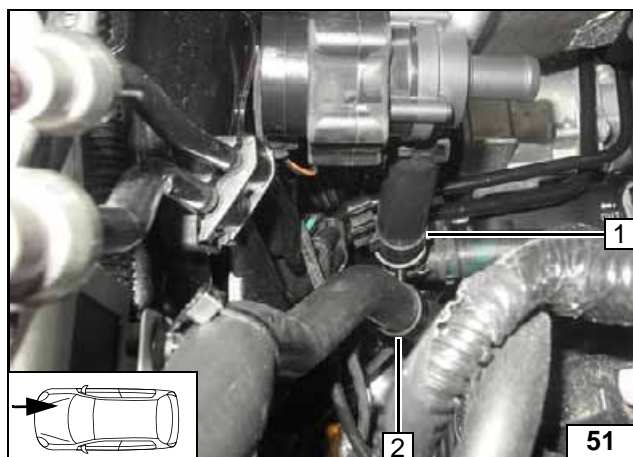
All spring clips without a specific designation  = 25 mm dia.
 All connecting pipes  and  = 18x18mm dia.





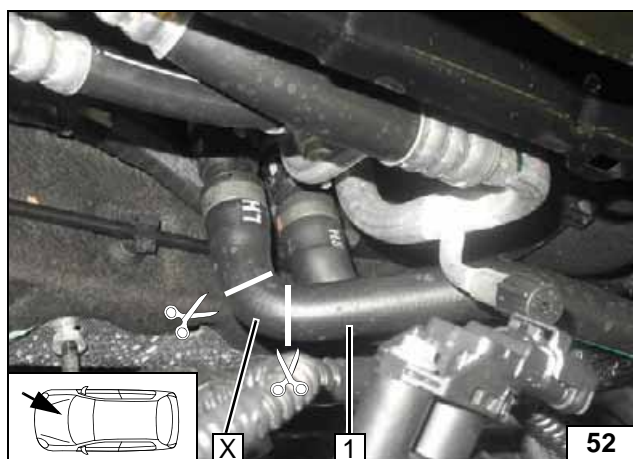
- 1 Circulating pump
- 2 Connector of circulating pump wiring harness

Connect-
ing circulat-
ing pump



- 1 Hose bracket between hose B and original vehicle fuel line
- 2 Hose bracket between hose B and original vehicle hose

Installing
hose brack-
et

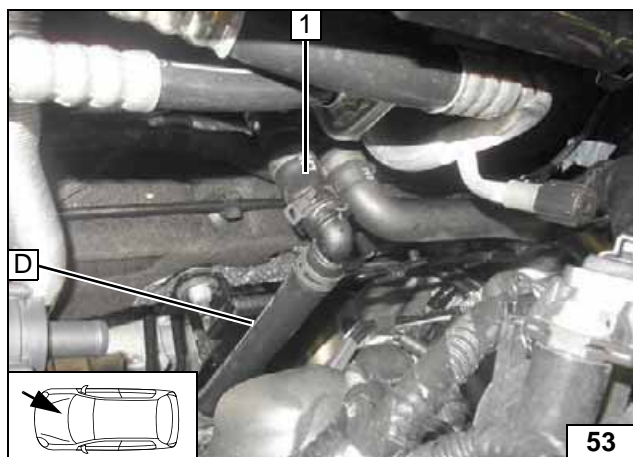


Cut hose of engine outlet / heat exchanger inlet 1 at the markings [2x].



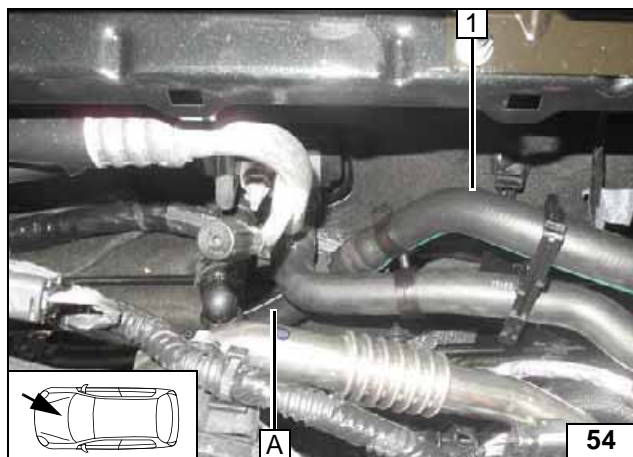
X =

Cutting
point



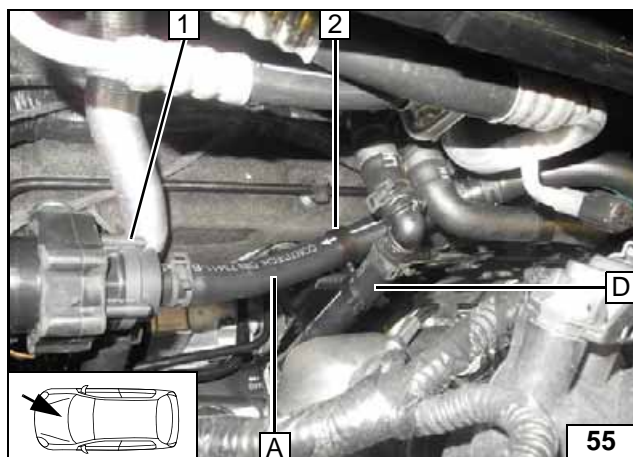
- 1 Heat exchanger inlet hose section

Connect-
ing heat ex-
changer
inlet



1 Engine outlet hose section

**Connect-
ing engine
outlet**

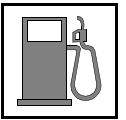


Align hoses.
Ensure sufficient distance from neighbour-
ing components, correct if necessary.



- 1 Circulating pump
- 2 Hose bracket between hose **A** and hose **D**

**Connect-
ing circulat-
ing pump**



Fuel



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

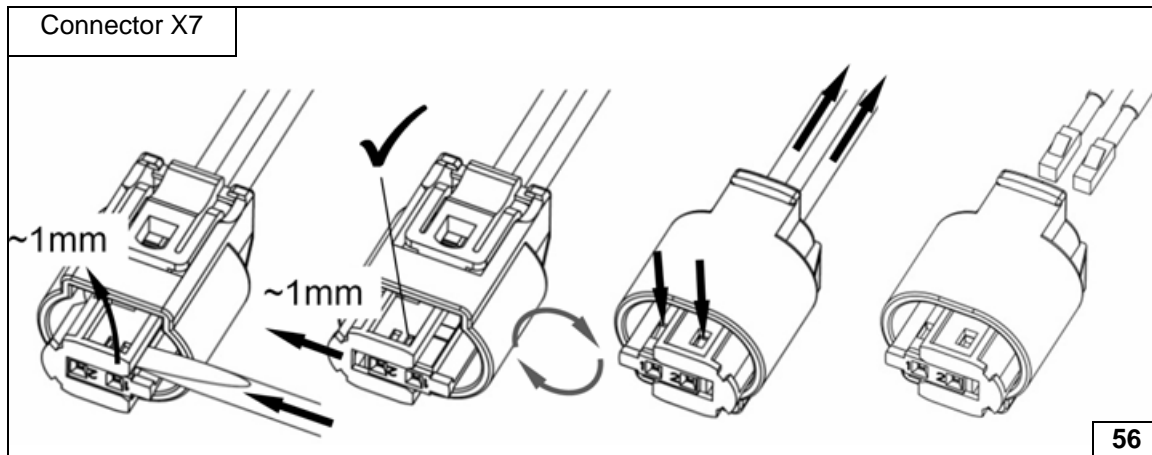
Catch any fuel running off in an appropriate container.



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.



Dismantling metering pump connector



Route fuel line and wiring harness of metering pump in 10 mm dia. corrugated tube 1 along original vehicle fuel lines to underbody.



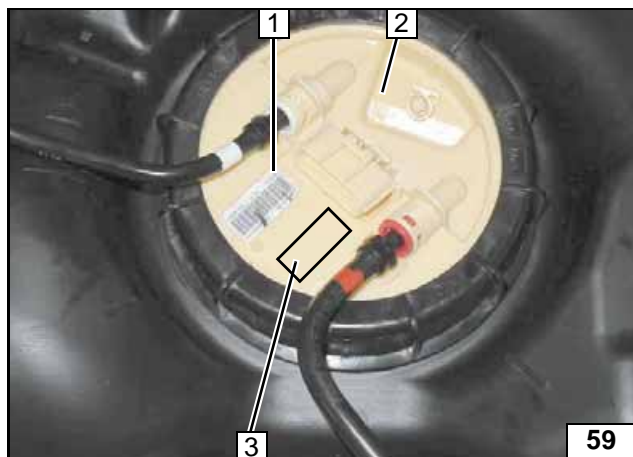
Routing lines



Route fuel line and wiring harness of metering pump in 10mm dia. corrugated tube 1 along original vehicle fuel lines to installation location of metering pump.



Routing lines



Installing FuelFix

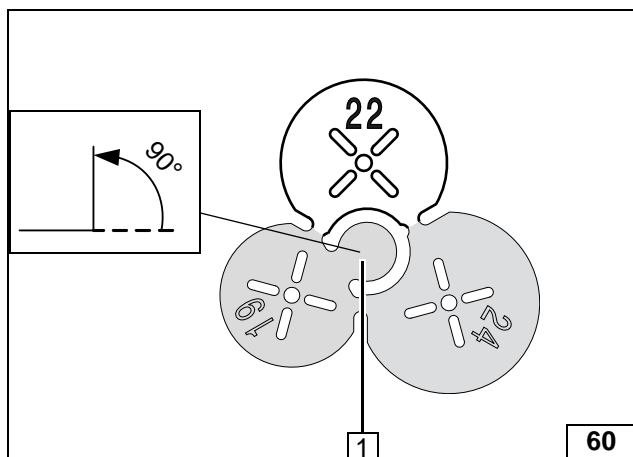
Remove the fuel tank according to the manufacturer's instructions.

Move sticker 1 to marked area 3 .

- 2 Fuel tank sending unit



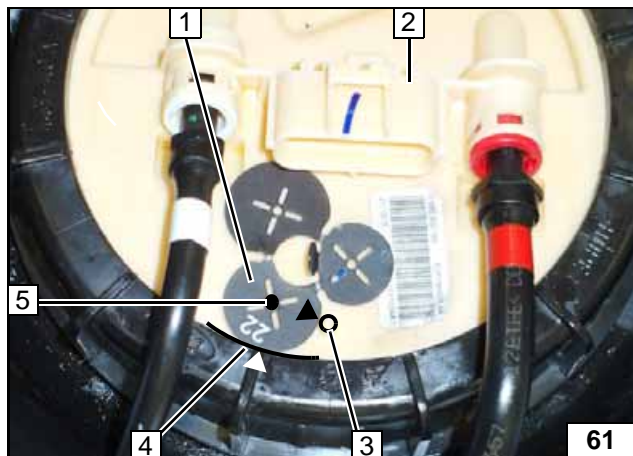
Preparing fuel tank sending unit



- 1 Lug



Preparing drilling template



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



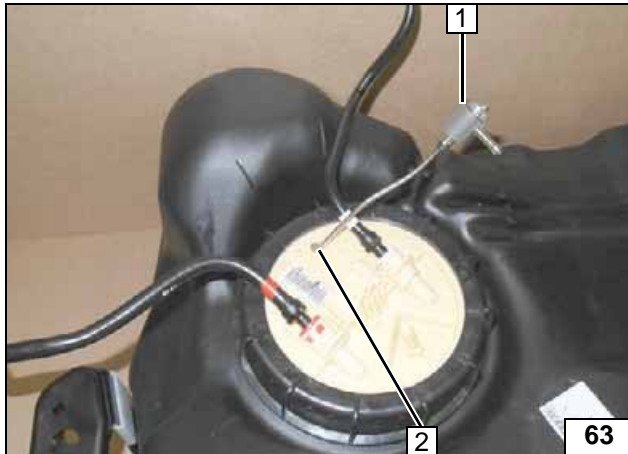
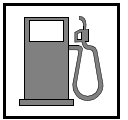
Copying hole pattern



Work step F3.

- 1 Hole made with provided drill

Hole for FuelFix



Work steps F4 and F5.

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



Inserting FuelFix

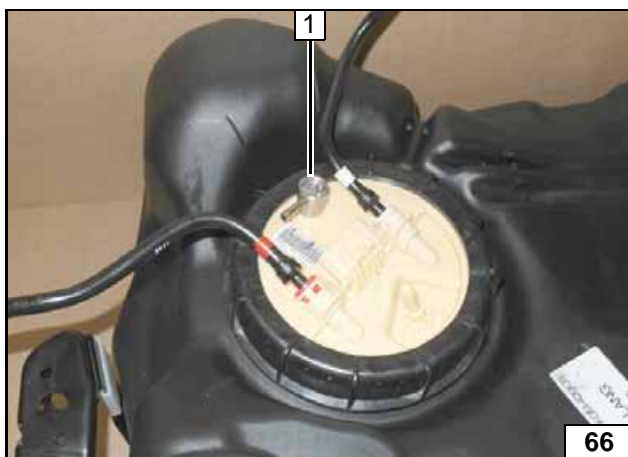


Work step F5.

Inserting FuelFix



Inserting FuelFix

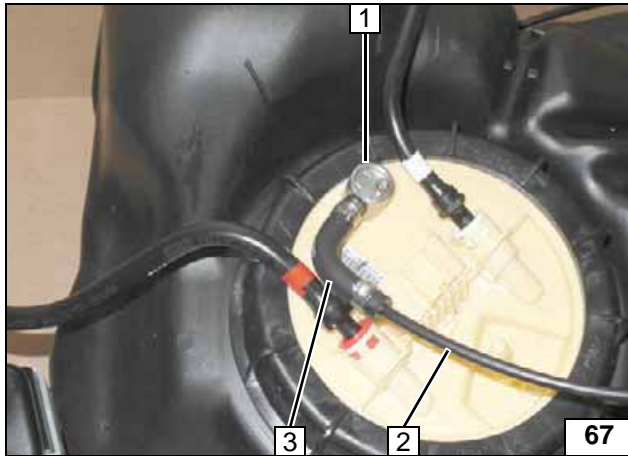
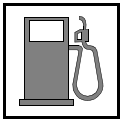


Work steps F5.3 and F5.4.

Align FuelFix 1 as shown.



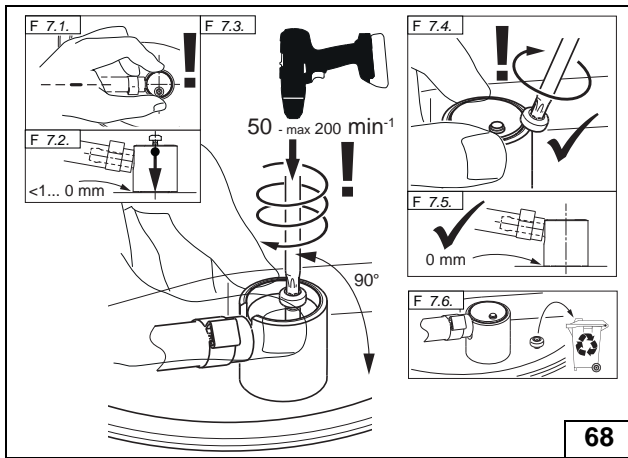
Aligning FuelFix



Work step F6.

- 1 FuelFix
- 2 Fuel line
- 3 90° moulded hose, 10 mm dia. clamp [2x]

Connect-
ing fuel line



Work step 7.



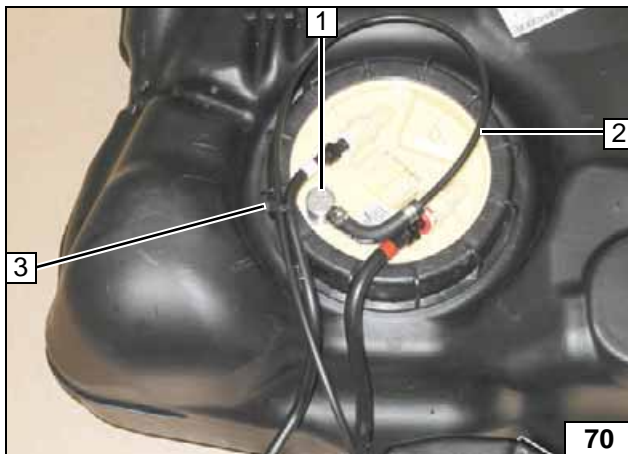
Installing
FuelFix



Work step F8.



Ensuring
firm seating
of FuelFix



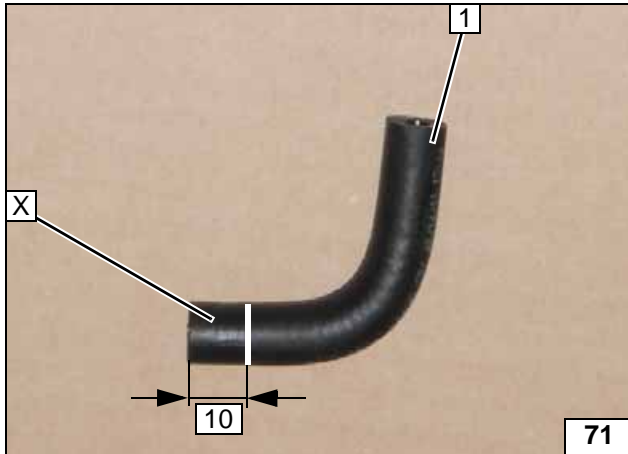
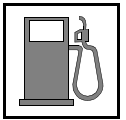
- 1 FuelFix mounted
- 2 Fuel line of FuelFix
- 3 Cable tie as tension relief



Securing
fuel line

Install fuel tank in accordance with manufacturer's instructions.

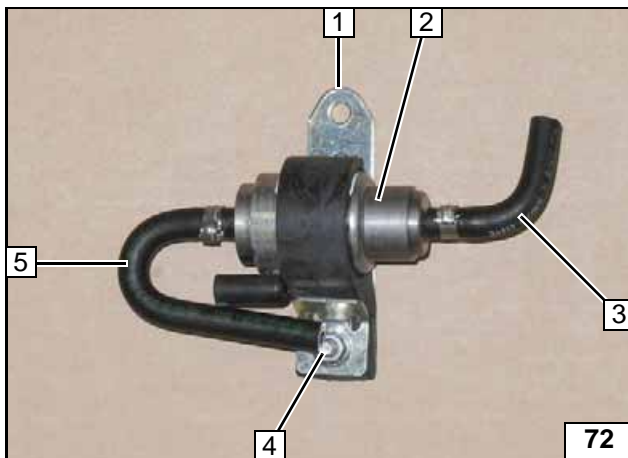




1 90° moulded hose

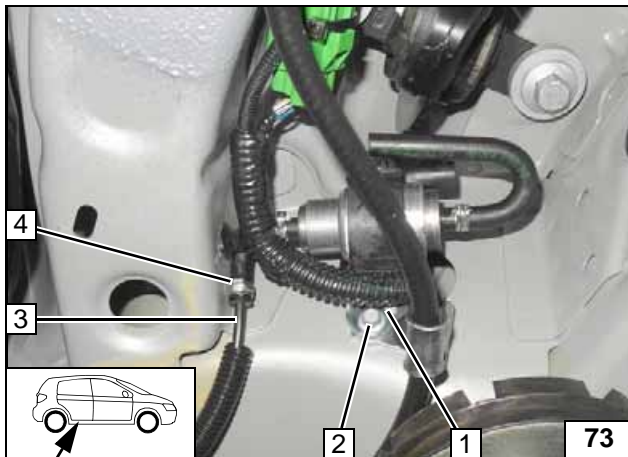
X =

Cutting moulded hose to length



- 1 Perforated bracket
- 2 Metering pump
- 3 90° moulded hose (shortened side to metering pump), 10 mm dia. clamp
- 4 M6x25 bolt, perforated bracket 1, mounting of metering pump, support angle bracket, flanged nut
- 5 180° moulded hose, 10 mm dia. clamp

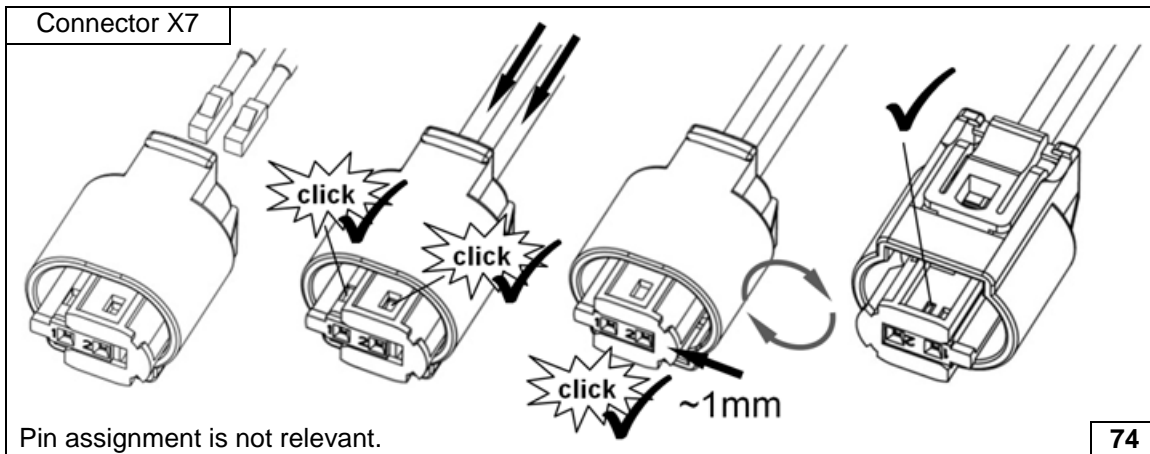
Premounting metering pump



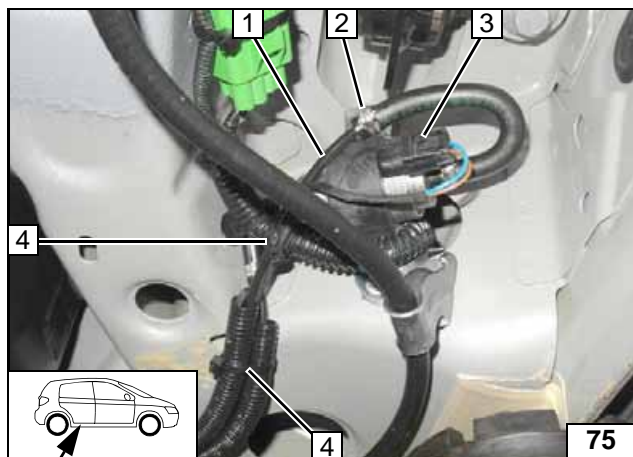
- 1 Premounted perforated bracket
- 2 Original vehicle bolt
- 3 FuelFix fuel line in corrugated tube
- 4 10 mm dia. clamp



Installing metering pump



Completing metering pump connector

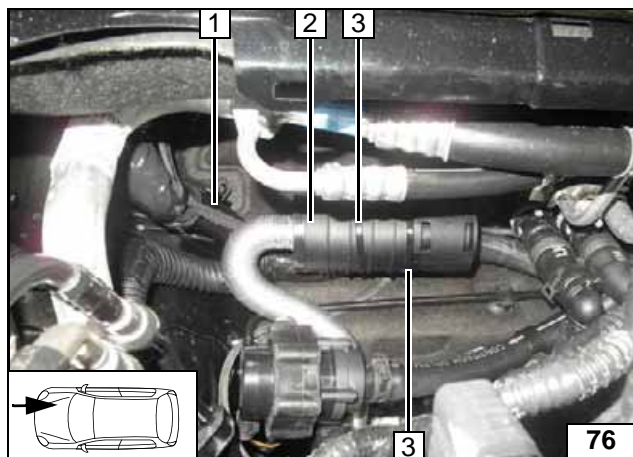
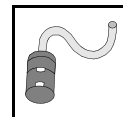


Check the position of the components; adjust if necessary. Check that they have freedom of movement.

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



**Connect-
ing meter-
ing pump**

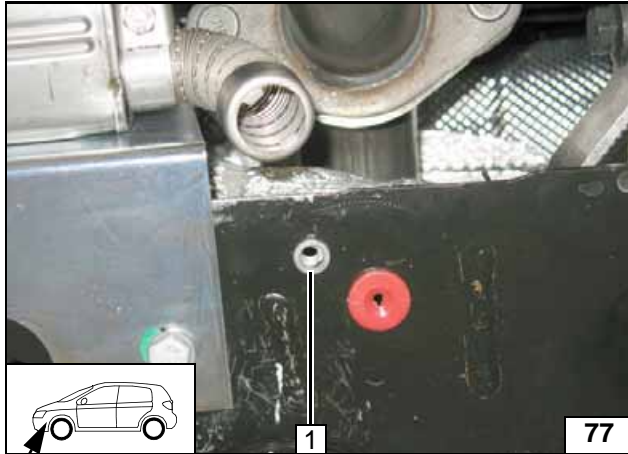
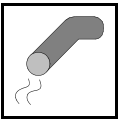


Combustion Air

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



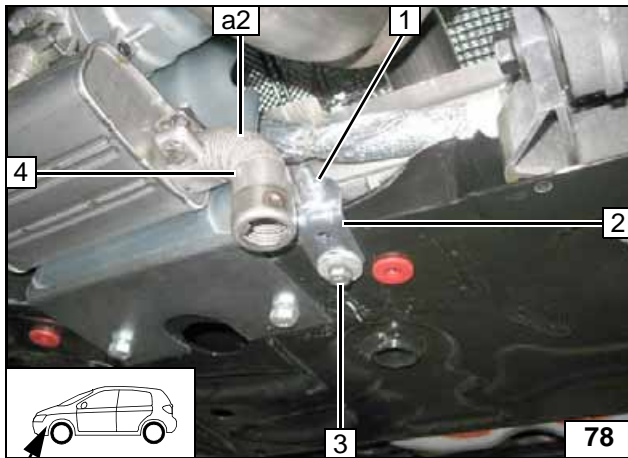
**Installing
silencer**



Exhaust Gas

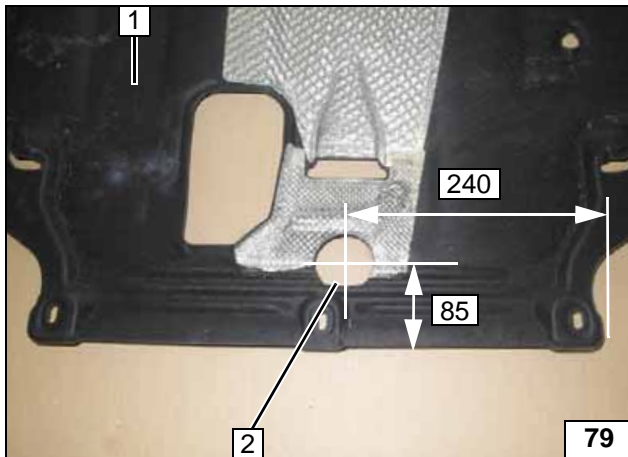
- 1 Drill out hole to 9.1 mm dia., rivet nut

Installing perforated bracket



- 1 M6x20 bolt, flanged nut
- 2 Angle bracket
- 3 M6x20 bolt, spring lockwasher, large diameter washer
- 4 P-clamp

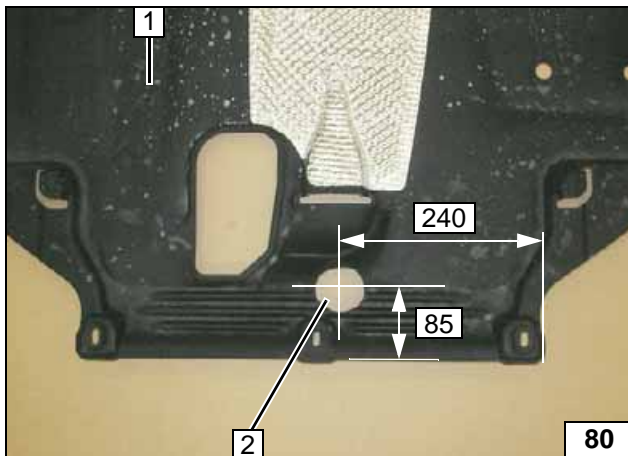
Installing exhaust pipe a2



Focus

- 1 Underride protection
- 2 60 mm dia. hole

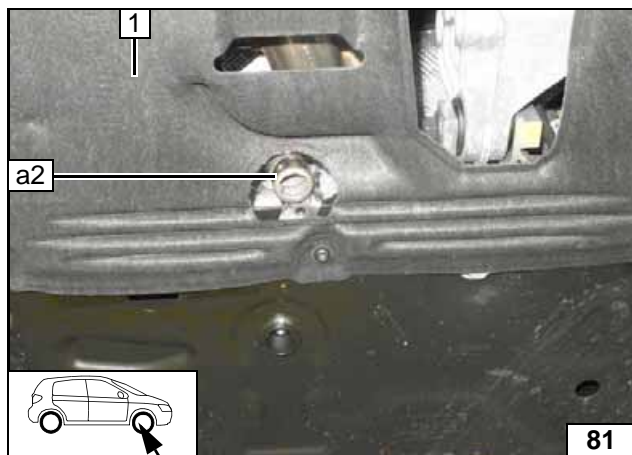
Cutting out underride protection



C-Max / Grand C-Max

- 1 Underride protection
- 2 60 mm dia. hole

Cutting out underride protection



All vehicles

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



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.**
- **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.**

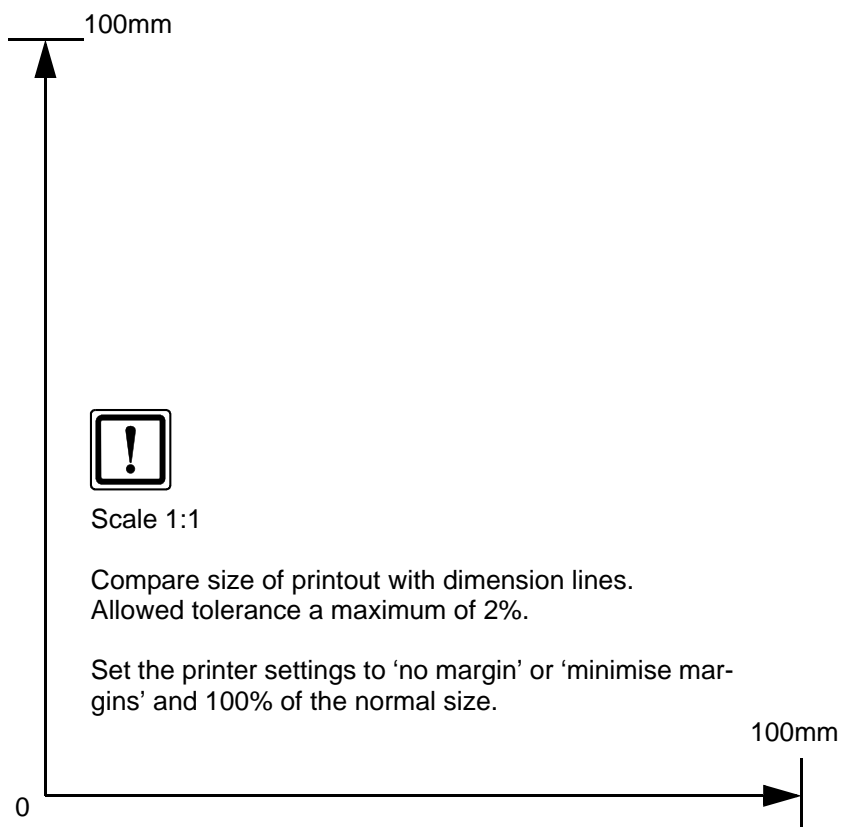
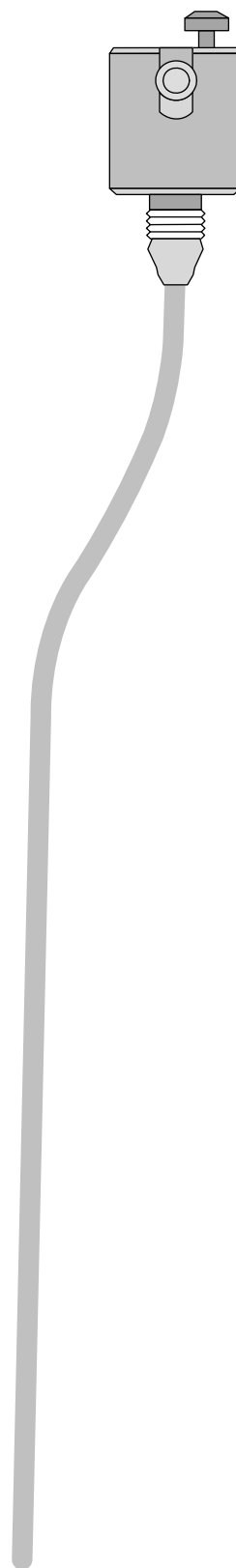
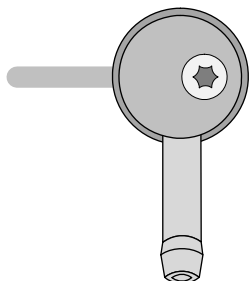


Webasto Thermo & Comfort SE
Postfach 1410
82199 Gilching
Germany
Internet: www.webasto.com
Technical Extranet:
<http://dealers.webasto.com>



FuelFix Template

Top view



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

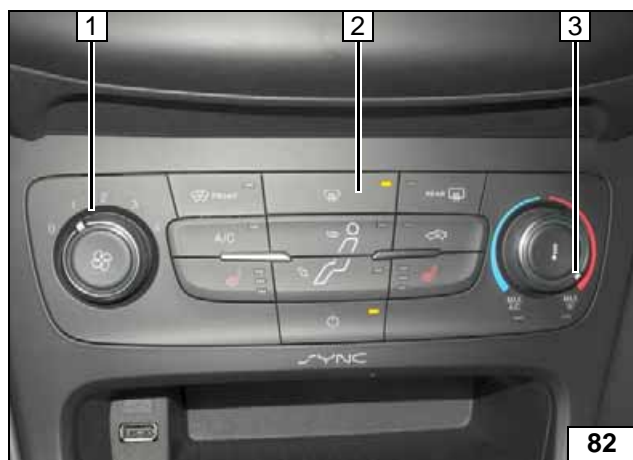
Example:

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

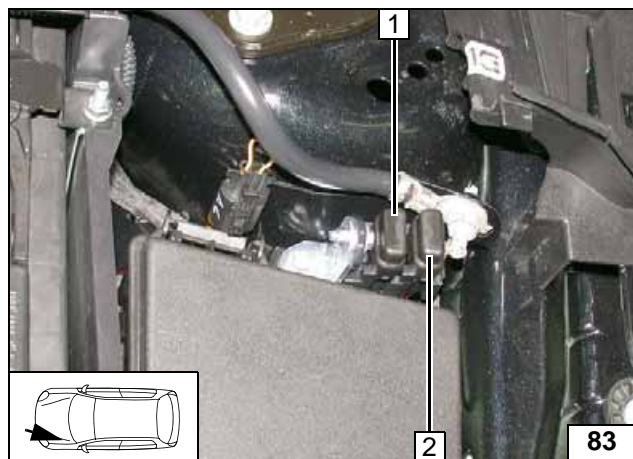
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

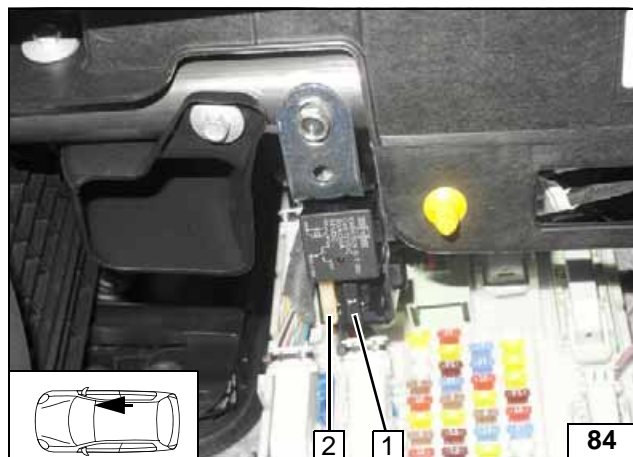
Before parking the vehicle, make the following settings:



- 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



A/C control panel for manual air-conditioning

Engine compartment fuses

Passenger compartment fuses



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

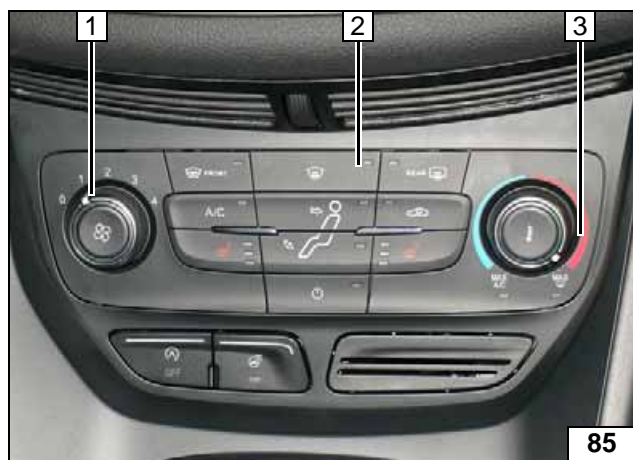
Example:

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

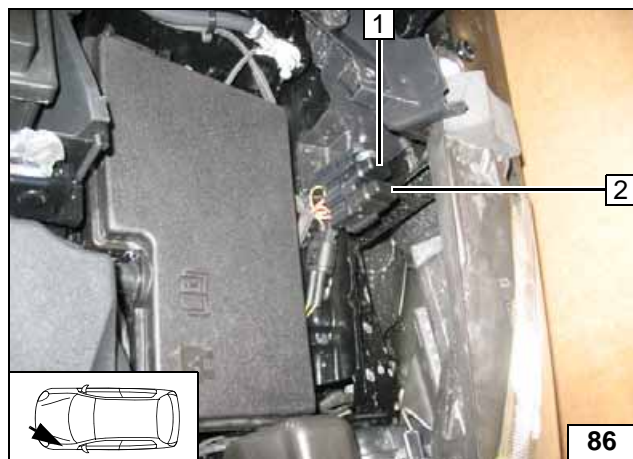
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

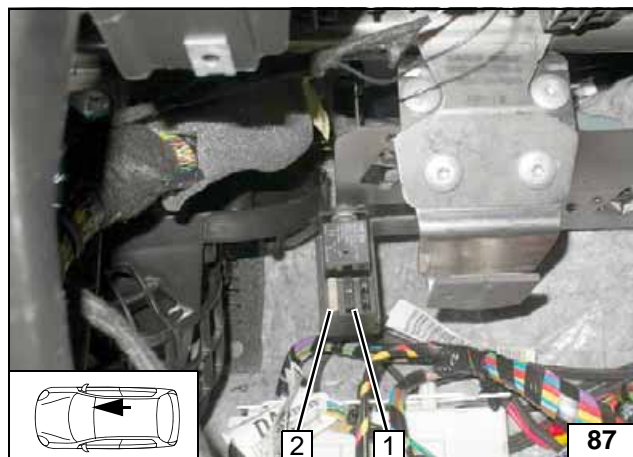
Before parking the vehicle, make the following settings:



- 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 F2
- 2 20A heater fuse F1



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



A/C control panel for manual air-conditioning

Engine compartment fuses

Passenger compartment fuses

