

Thermo Top Evo 5+ Parking Heater

Installation Documentation Ford S-MAX / Galaxy / Mondeo (CD 34*)

Validity

Manufacturer	Model	Туре	EG-BE-No. / ABE
Ford (D)	S-MAX	WA 6	e13 * 2001/116 * 0185 *
Ford (D)	Galaxy	WA 6	e13 * 2001/116 * 0185 *
Ford (D)	Mondeo	BA 7	e13 * 2001/116 * 0249 *

S-MAX:

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6	Petrol	SG / AT	118	1596	JTWA
2.0	Petrol	SG / AT	107	1999	TBWA / TBWB
2.5	Petrol	SG / AT	162	2521	HUWA

Galaxy:

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6	Petrol	SG / AT	118	1596	JTWA
2.0	Petrol	SG / AT	107	1999	TBWA / TBWB

Mondeo:

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6	Petrol	SG / AT	88	1596	KGBA
1.6	Petrol	SG / AT	118	1596	JTBB
2.0	Petrol	SG / AT	107	1999	AOBA / AOBC
2.0	Petrol	SG / AT	149	1999	TNBA
2.0	Petrol	SG / AT	176	1999	PBBA
2.3	Petrol	SG / AT	118	2261	SEBA
2.5	Petrol	SG / AT	162	2521	HUBA

SG = manual transmission

AT = automatic transmission

Ford S-MAX / Galaxy from 2006 Model Ford Mondeo (CD 34*) from 2007 Model

Left-hand drive vehicle

Ford S-MAX / Galaxy / Mondeo (CD 34*)

Verified equipment vari- ants:	Automatic air-conditioning
	Front fog light Headlight washer system
Not verified:	Passenger compartment monitoring Start-Stop-System
Total installation time:	approx. 11.5 hours for S-Max and Galaxy approx. 9.5 hours for Mondeo

Ford S-MAX / Galaxy / Mondeo (CD 34*)

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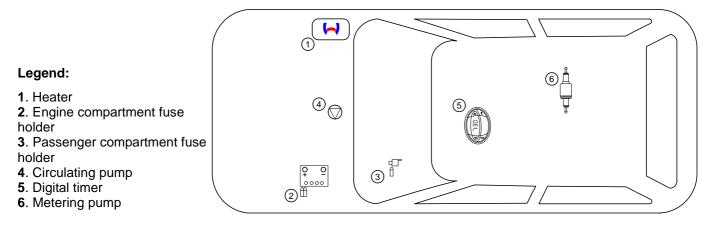
Necessary Components

- Delivery scope Thermo Top Evo 5+ Ford (CD 34*) Petrol: 1316398A
- 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

Note:

To facilitate the installation, the vehicle should only be delivered with a quarter-full fuel tank.

Installation Overview



Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting of 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 suf-

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 227)

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 dam-age or injuries caused by a wilful or reckless breach of duty remain unaf-fected, 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, Order No. 111329).

Observe the instructions and guidelines of the respective vehicle manufac-turer for demounting and mounting vehicle specific components!

The initial startup is to be executed with the Webasto Thermo Test Diagnosis

When installing an IPCU, the corresponding settings must be checked or adjusted before the installation.

2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 03 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

For vehicles with an EU permit, no entry in accordance with $\$ 19 Sub-Section 4 of Annex VIII b to the Road Traffic Act is required.

Excerpt from the directive 2001/56/EC Appendix VII for the 2.1 installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

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

VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.

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

2.2. Positioning of heater

- 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 2.2.1. contamination.
- 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. 2.2.2.
- 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
- 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 la-2.3.2. belled
- 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. 2.3.3.

2.4. Exhaust system

The exhaust outlet must be located so as to prevent emissions from en-tering the vehicle through ventilators, heated air inlets or opening win-2.4.1. dows

2.5. Combustion air inlet

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

2.6. Heating air inlet

- 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 2.6.1. other vehicle source
- 2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

- Any ducting used to route the hot air through the vehicle must be so po-sitioned or protected that no injury or damage could be caused if it were 2.7.1. 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 S-MAX / Galaxy / Mondeo (CD 34*)

Information on Validity

This installation documentation applies to Ford S-Max / Galaxy Petrol vehicles from model year 2006 and later as well as Ford Mondeo (CD 34*) petrol vehicles from model year 2007 and later - for validity, see page 1 - assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

Vehicle and engine types, equipment variants and 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 self-clamping 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
- 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 values of 5x15 retaining plate of water connection piece bolts = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-theart- 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:

steps.			
Mechanical system		Specific risk of injury or fatal accidents	
Electrical system	4	Specific risk of damage to components	!
Coolant circuit		Specific risk of fire and explosion	
Combustion air		Reference to general installation instructions of the Webasto components or to the manufacturer's vehicle-specific documents.	
Fuel		Reference to a special technical feature	
		The arrow in the vehicle icon indicates the position on the vehicle	
Exhaust gas		and the viewing angle	
Software			

Preliminary Work

Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Disconnect the battery.
- Depressurise the cooling system.
- Mount the information sign on the cover of the diagnosis connection.
- Remove the engine design cover.
- Remove the battery and the battery carrier.
- Remove the air filter box.
- Remove the windscreen wipers (S-MAX and Galaxy only).
- Remove the coolant reservoir cap (S-MAX and Galaxy only).
- Remove the coolant reservoir trim in the engine compartment (S-MAX and Galaxy only).
- Remove the bracket of the coolant hoses (S-MAX and Galaxy only).
- Remove the right front wheel.
- Remove the wheel well trim on the right.
- Remove the lower engine cover (if present).
- Remove the cover of the fuel line under the vehicle.
- Remove the tank according to the manufacturer's instructions.
- Remove the fuel-tank sending unit in accordance with manufacturer's instructions.
- Remove the switch or trim strip above the A/C control panel/radio or A/C/navigation control unit [clipped in] (S-MAX and Galaxy only).
- Remove the cover of the centre console/shift lever cover.
- Remove the A/C control panel/radio or A/C/navigation control unit.
- Remove the glove compartment.
- Remove the cover of the A-pillar trim on the right (S-MAX and Galaxy only).
- Remove the lower instrument panel trim on the front passenger's side (Mondeo only).
- Detach the fuse box [SJB] and fold it down.

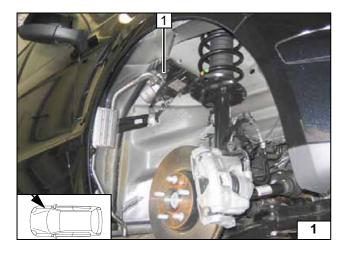
Heater

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

Note

A fault may have been stored in the fault memory "Heating, ventilation and air-conditioning" by the operation of the parking heater. This must be deleted in accordance with the manufacturer's instructions during the vehicle inspection.

The installation location of the digital timer and push button are shown in the example and should be coordinated with the customer prior to installation.

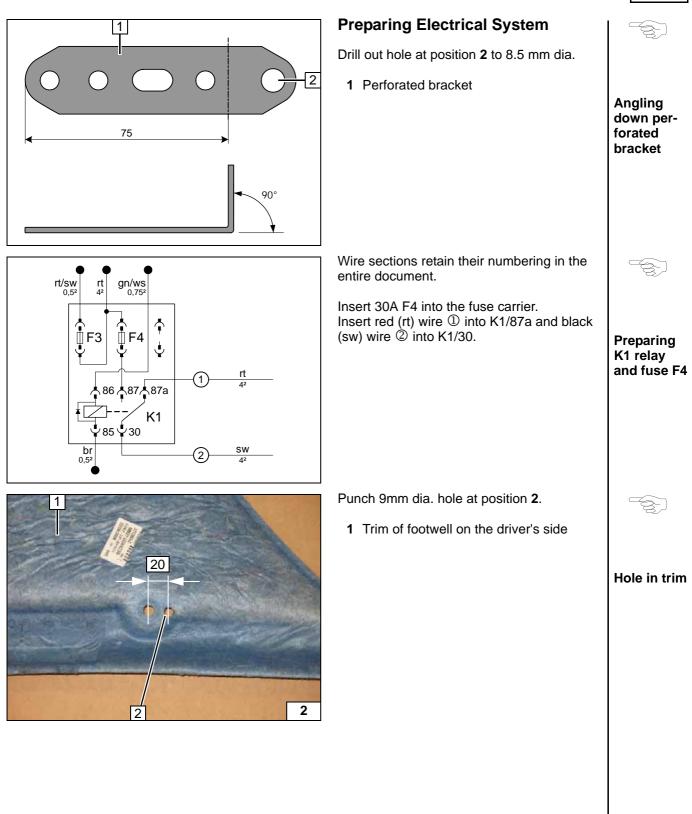


Heater Installation Location

1 Heater

Installation location



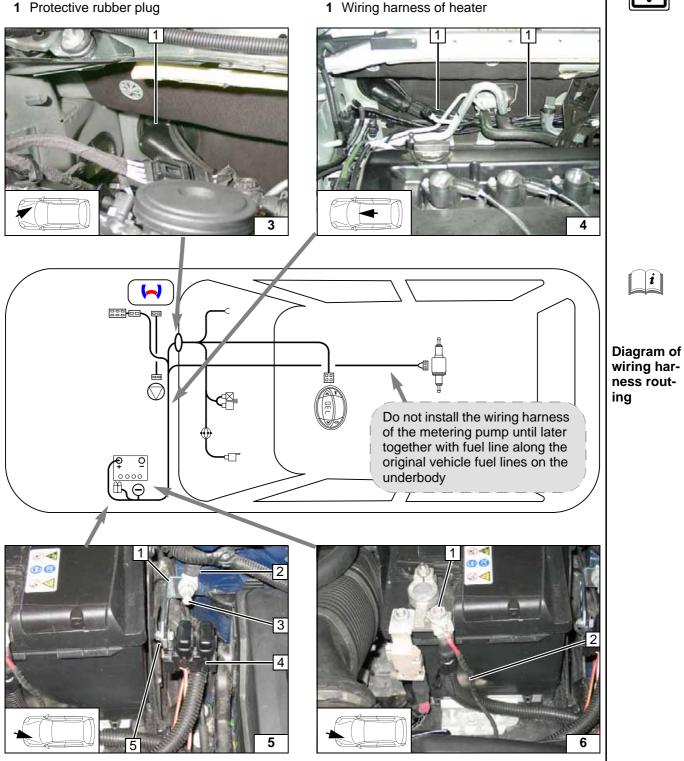




Electrical System

Wiring harness pass through

1 Protective rubber plug



Routing in engine compartment

Positive wire

- **1** Connection of positive battery terminal
- 2 Positive wire, 8mm dia. cable lug

1 Perforated bracket

4 Fuses F1-2

2 Earth wire, 8mm dia. cable lug

plate of fuse holder, flanged nut

3 Original vehicle earth point

Fuse holder of engine compartment, earth wire

5 M5x12 bolt, large diameter washer, retaining



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Webasto Ford 30 75 ge HG bl/sw Wiring dia-∯ F2 ∯ F1 vi/gn X2 $\forall 1$ $\forall 2$ $2 \forall 5 \forall X1$ gram F28 St A 12 Å16 Å15 ge 0,5² GRs H AD gn/ws 0,75² rt/sw rt 42 C21 0.5 M1 M gn/ws ÅΑ br 0,752 0,5² rt/sw _{0,5²} gn/ws 0,75² C2 rt 42 2 I br/bl gr/vi gn 0.52 ۲ ** ws/vi X10 0.5 F3 🖞 F4 gn ١ br/bl 1 (1)_rt 0.54 SW sw ws/vi .86 **4**87 87a rt 1 St A 26 515 St B K1 ÷85 ÷30 gr/vi GM A 1 KΒ br br (-(M)-) 2 0,52 0.5 I C2RT 3 86 **4**87 87a **Š**69 St C 031 ge SJB K2 gr/or * 15 ₽85 **₽**30 gr/or br IPCU gr/or * 1) rt St A 642 41 4 ×86 ↓85 br D¥ GRr gn/ws sw 31 Webasto components Vehicle components Colours and symbols HG Heater TT-Evo F28 Fan fuse rt red X1 6-pin heater connector GRs Fan relay ws white Х2 2-pin heater connector AD Radio black sw K1 Fan relay C21 Black connector br brown Legend K2 Additional relay M1 Positioning motor of air flap green gn F1 C2 20A fuse M1 connector bl blue F2 GM 30A fuse Fan motor vellow ge F3 1A fuse KB A/C control panel vi violet Receiver WFS F4 C2RT 30A fuse gr grey X10 4-pin connector of heat-031 er control SJB Smart Junction Box

Control of Automatic Air-Conditioning Version A

Vehicle equipment if violet/green (vi/gn) wire is present on radio connector A, PIN 16.

IPCU adjustment values

10 V

37 %

400 Hz

Low side

Pulse width modulator

GRr

ST...

IPCU

Voltage:

Frequency:

Duty cycle:

Function:

depending on equipment

D

Х

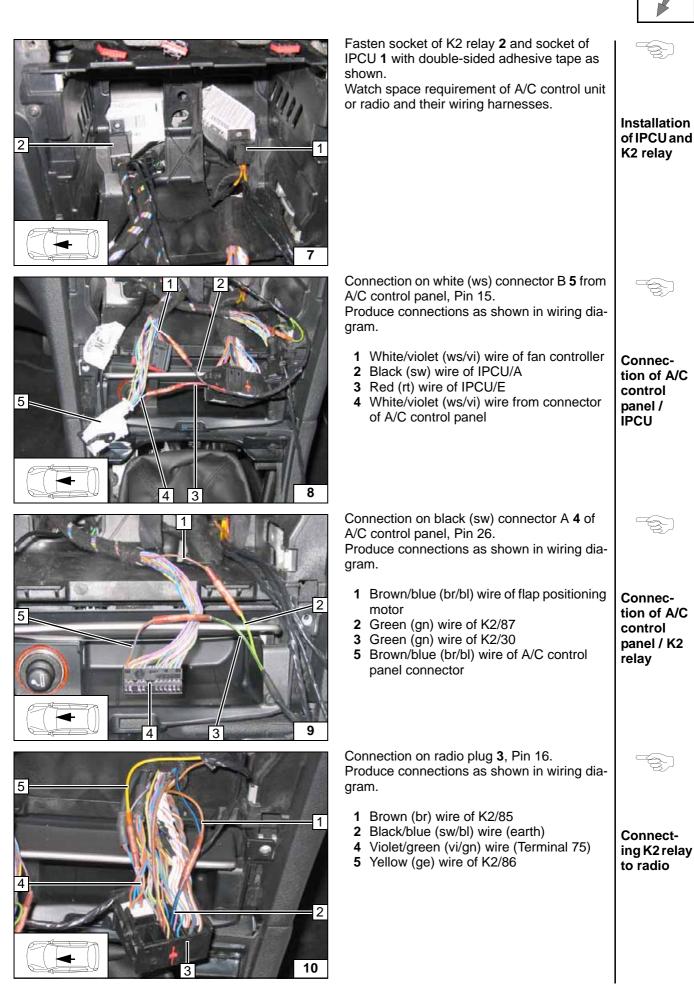
Diodes integrated in wiring harness

Cutting point Wiring colours may vary

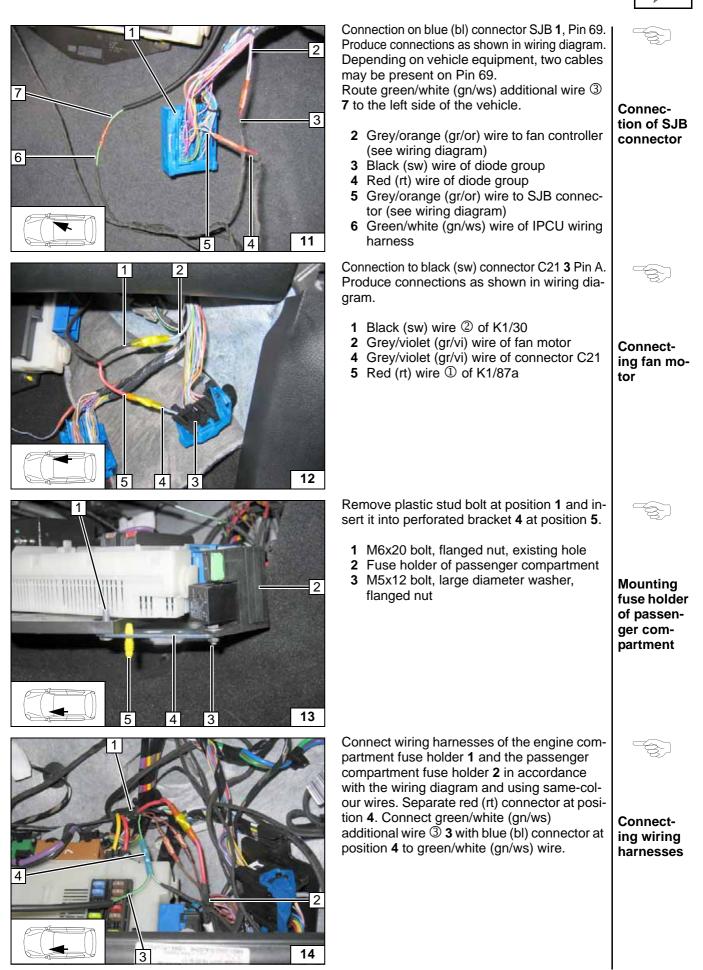
Fan controller

Plug connections





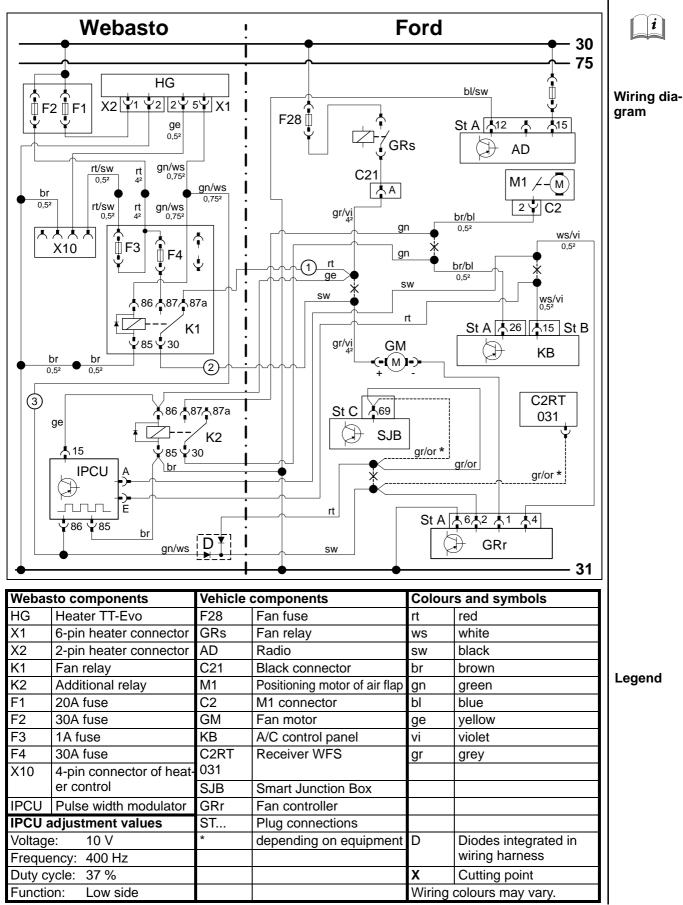






Control of Automatic Air-Conditioning Version B

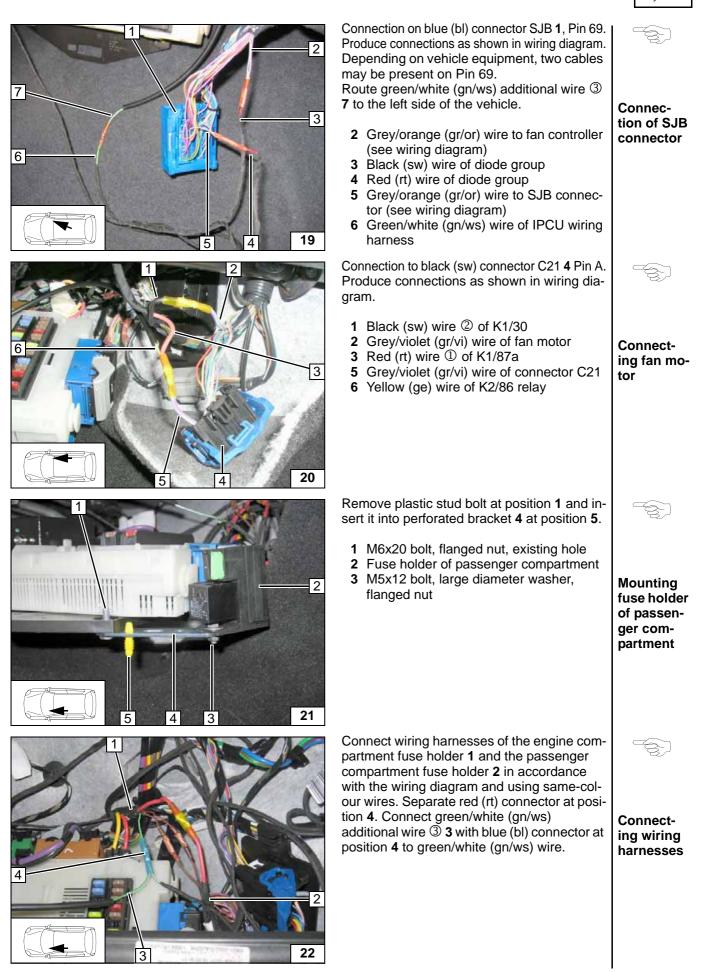
Vehicle equipment if violet/green (vi/gn) wire is <u>not</u> present on radio connector A, PIN 16.





Fasten socket of K2 relay 2 and socket of IPCU 1 with double-sided adhesive tape as shown. Watch space requirement of A/C control unit or radio and their wiring harnesses.	Installation of IPCU and K2 relay
 Connection on white (ws) connector B 5 from A/C control panel, Pin 15. Produce connections as shown in wiring diagram. 1 White/violet (ws/vi) wire of fan controller 2 Black (sw) wire of IPCU/A 3 Red (rt) wire of IPCU/E 4 White/violet (ws/vi) wire from connector of A/C control panel 	Connec- tion of A/C control panel / IPCU
 Connection on black (sw) connector A 4 of A/C control panel, Pin 26. Produce connections as shown in wiring diagram. 1 Brown/blue (br/bl) wire of flap positioning motor 2 Green (gn) wire of K2/87 3 Green (gn) wire of K2/30 5 Brown/blue (br/bl) wire of A/C control panel connector 	Connec- tion of A/C control panel / K2 relay
 Connection on radio plug 5. Produce connections as shown in wiring diagram. Connect yellow (ge) wire 1 from K2/86 to yellow (ge) wire 6 and route in protective sleeving into footwell on front passenger's side. 2 Brown (br) wire of K2/85 3 Black/blue (sw/bl) wire (earth) 4 Black/blue (sw/bl) wire (earth) from connector Pin 12 	Connec- tion of K3.1/85 on radio

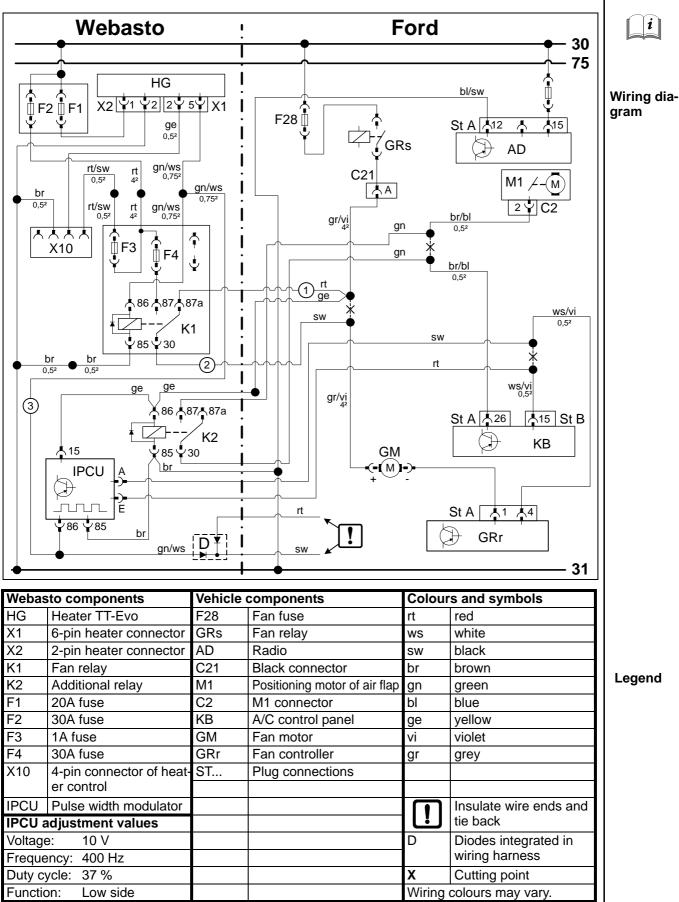






Control of Automatic Air-Conditioning Version C

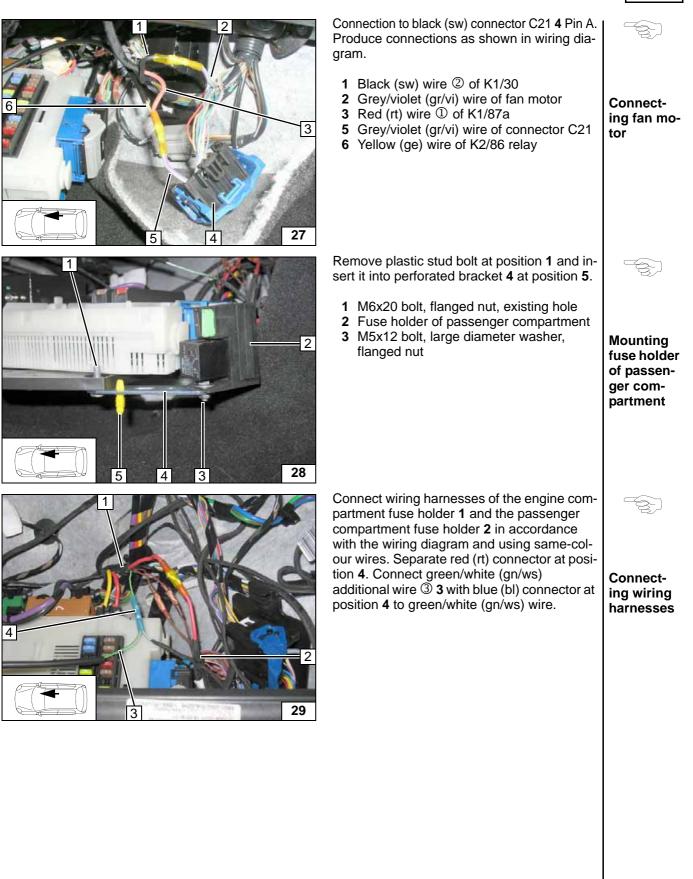
Starting with model year 2010.



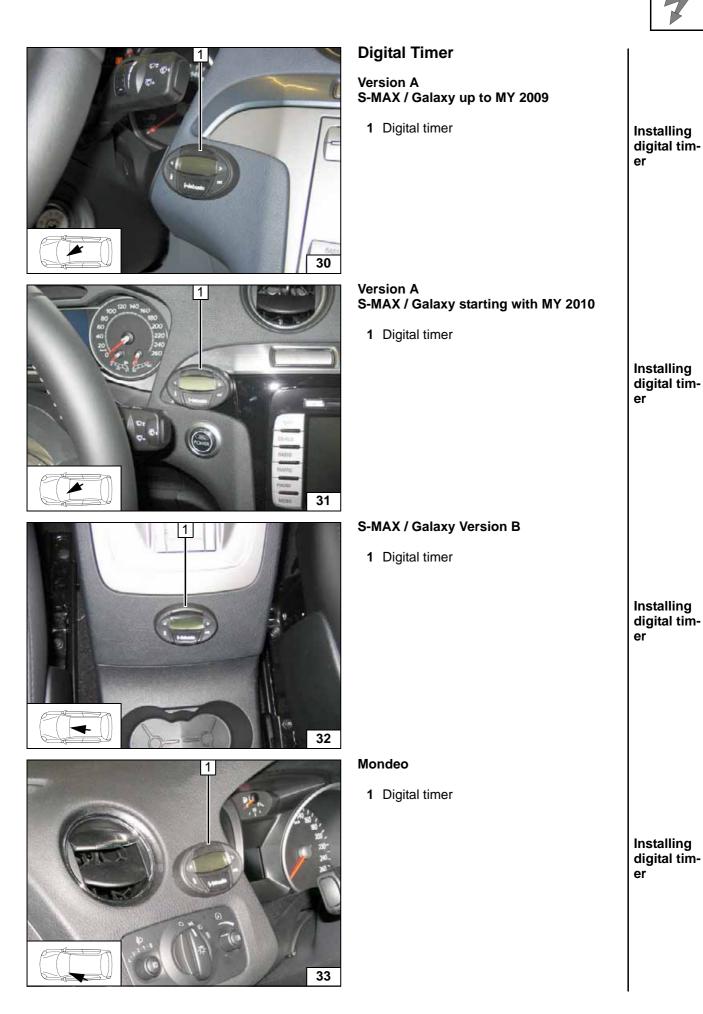


Fasten socket of K2 relay 2 and socket of IPCU 1 with double-sided adhesive tape as shown. Watch space requirement of A/C control unit or radio and their wiring harnesses. Route green/white (gn/ws) wire of IPCU (IPCU/86) wiring harness to the left side of the vehicle. Insulate red (rt) and black (sw) wires and tie them back.	Installation of IPCU and K2 relay
 Connection on white (ws) connector B 5 from A/C control panel, Pin 15. Produce connections as shown in wiring diagram. 1 White/violet (ws/vi) wire of fan controller 2 Black (sw) wire of IPCU/A 3 Red (rt) wire of IPCU/E 4 White/violet (ws/vi) wire from connector of A/C control panel 	Connec- tion of A/C control panel / IPCU
 Connection on black (sw) connector A 4 of A/C control panel, Pin 26. Produce connections as shown in wiring diagram. 1 Brown/blue (br/bl) wire of flap positioning motor 2 Green (gn) wire of K2/87 3 Green (gn) wire of K2/30 5 Brown/blue (br/bl) wire of A/C control panel connector 	Connec- tion of A/C control panel / K2 relay
 Connection on radio plug 5. Produce connections as shown in wiring diagram. Connect yellow (ge) wire 1 from K2/86 to yellow (ge) wire 6 and route in protective sleeving into footwell on front passenger's side. 2 Brown (br) wire of K2/85 3 Black/blue (sw/bl) wire (earth) 4 Black/blue (sw/bl) wire (earth) from connector Pin 12 	Connec- tion of K3.1/85 on radio



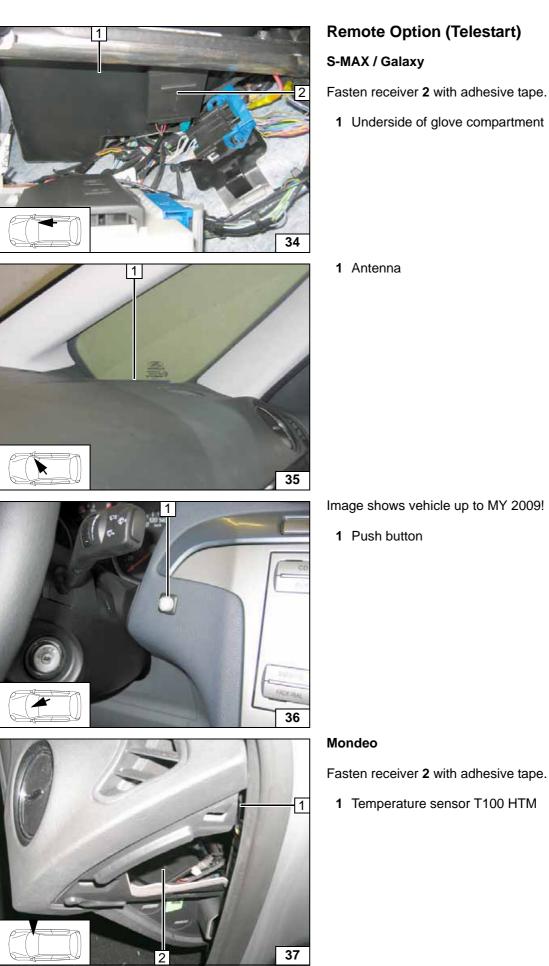








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Mounting 1 Underside of glove compartment receiver Mounting antenna Image shows vehicle up to MY 2009! 1 Push button

Fasten receiver 2 with adhesive tape.

1 Temperature sensor T100 HTM



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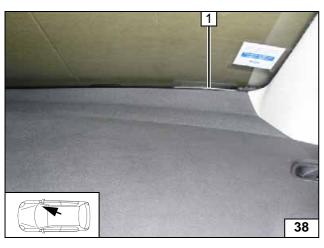


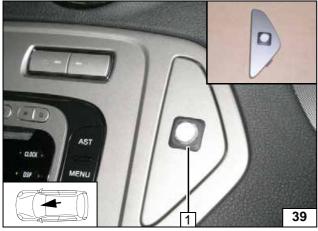
Mounting push button



Mounting receiver







Note:

For vehicles with windscreen heating, do not glue the antenna in the area of the window heating.

1 Antenna

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Mounting antenna

1 Push button



Mounting push button



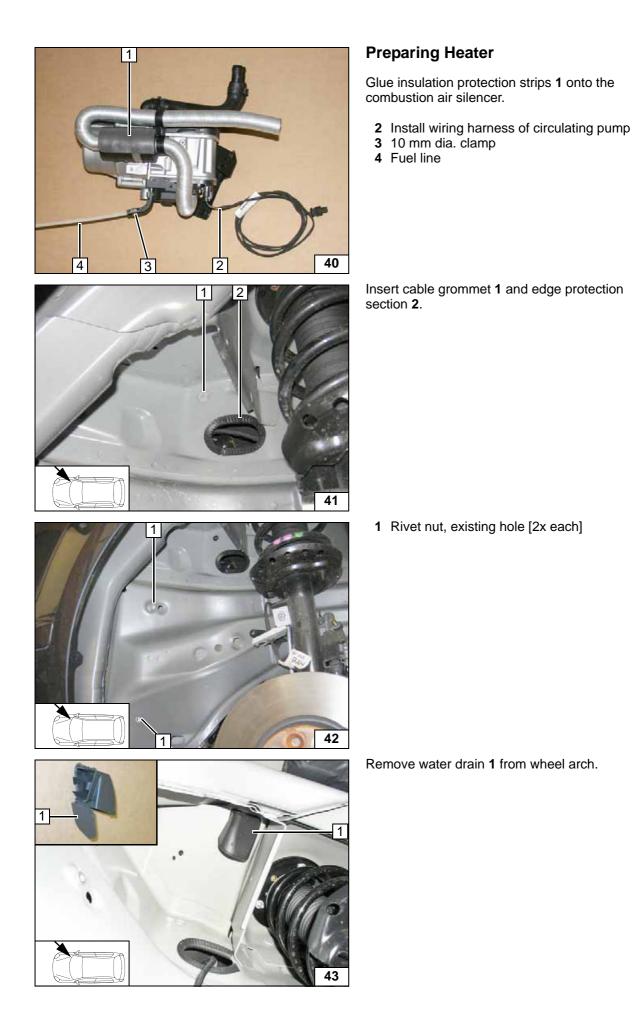
Preparing heater in-

stallation

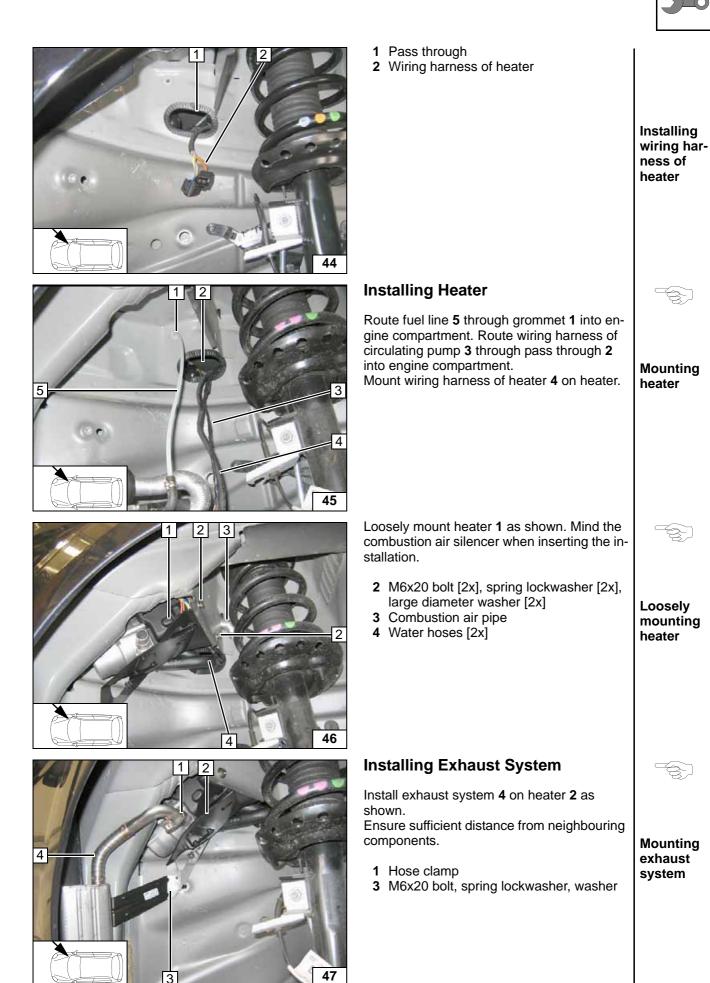
Preparing installation location

Installing rivet nuts

Preparing installation location



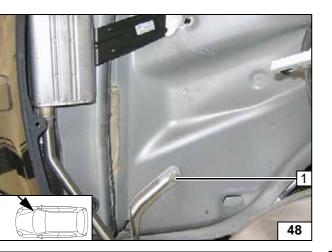


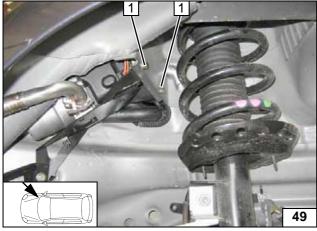


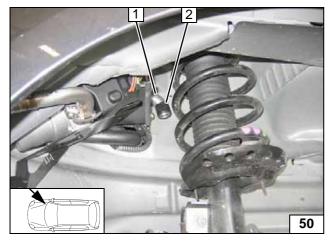


Mounting exhaust system

Mounting heater







Tighten M6x20 bolt **1** [2x].

1 M6x20 bolt, spring lockwasher, washer

Screw protective cap ${\bf 2}$ onto combustion air pipe ${\bf 1}.$

Mounting protective cap

Fuel

CAUTION!

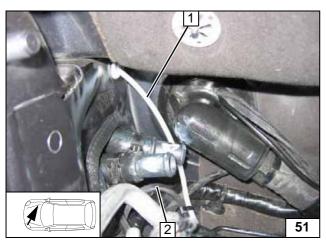
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

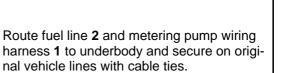
Any fuel running off should be collected in an appropriate container.

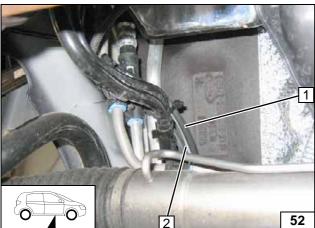
Install fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

WARNING!

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

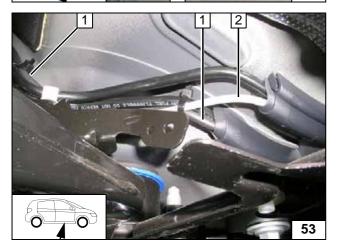






Route fuel line 1 and metering pump wiring harness 2 to underbody and secure on origi-

nal vehicle lines with cable ties.



Secure lines with cable ties.

- 1 Metering pump wiring harness
- 2 Fuel line

Routing lines







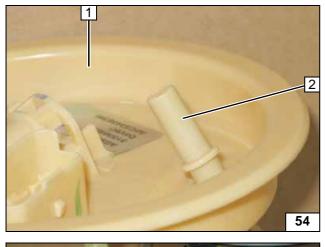


Routing lines

\subset	TO I

Routing lines





Figures concerning fuel extraction show Mondeo vehicle from model year 2011 onwards. Working steps apply to all vehicles!

Remove fuel tank according to manufacturer's instructions. Remove and dismantle fueltank sending unit **1** according to manufacturer's instructions. Cut off the tip of connection piece **2** and countersink gently.

1 Drill out 5.1 mm dia. hole



Fuel ex-

traction

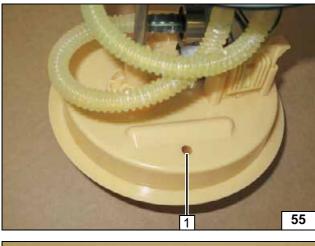


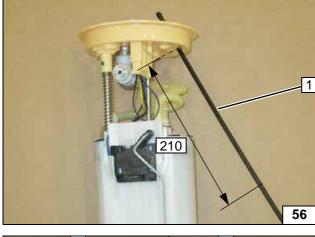


Cutting fuel standpipe to length



Cutting fuel standpipe to length





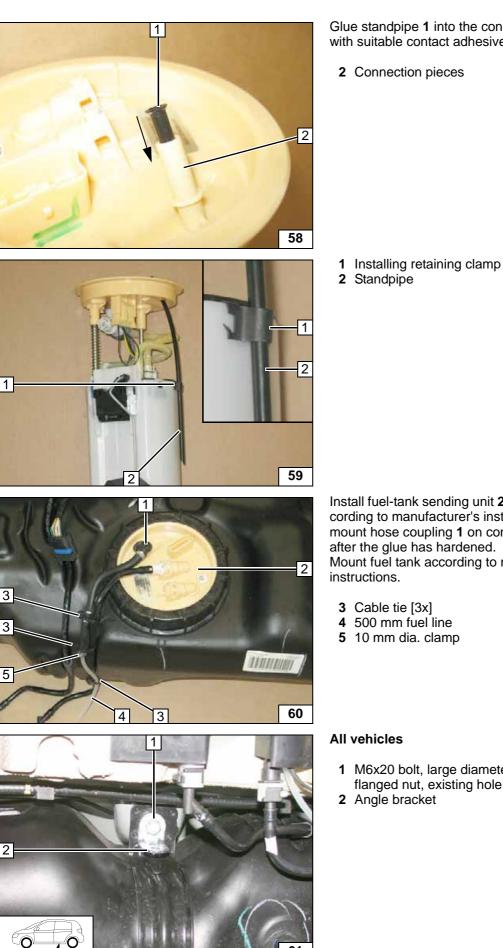
 Cut standpipe **1** to length at centre in the bulge as shown.

Insert standpipe 1 into the connection piece

and cut it to length obliquely at the end (measured from standpipe passage).

2 Connection pieces





Glue standpipe 1 into the connection piece with suitable contact adhesive.

2 Connection pieces

Pasting/gluing fuel standpipe

Install fuel-tank sending unit 2 in fuel tank according to manufacturer's instructions. Only mount hose coupling **1** on connection piece after the glue has hardened. Mount fuel tank according to manufacturer's

- 1 M6x20 bolt, large diameter washer, flanged nut, existing hole

Fixing of fuel stand-

pipe

Fuel extraction

Mounting angle bracket

61

2

2

O

0

CO

Q

Ô

1

3

88

62

63

64

1

3

3



- Mounting of metering pump
 M6x25 bolt, support bracket, large diameter washer, flanged nut



- 1 Hose section [2x]
- 2 Metering pump
- **3** 10 mm dia. clamp [2x]

Premounting metering pump

- 1 10 mm dia. clamp
- 2 Wiring harness of metering pump, connector mounted
- 3 Metering pump
- 4 Fuel line from heater

- 1 Fuel line from fuel standpipe
- 2 10 mm dia. clamp [2x]



Connecting metering pump



Connecting metering pump

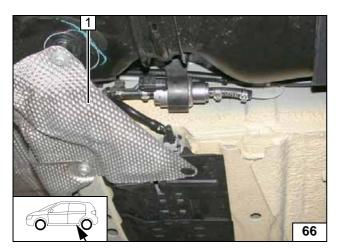
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Check the position of the components; adjust if necessary. Check that they have freedom of movement.

1 Cover

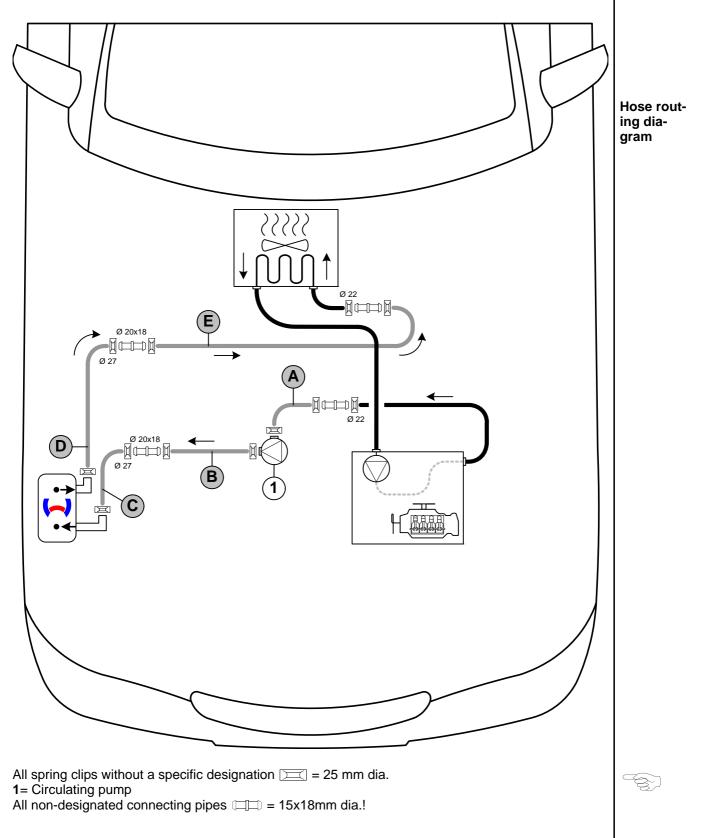


Installing cover

Coolant Circuit

WARNING!

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. When installing the hoses, the heater must be filled with coolant. The connection should be "inline" based on the following diagram:



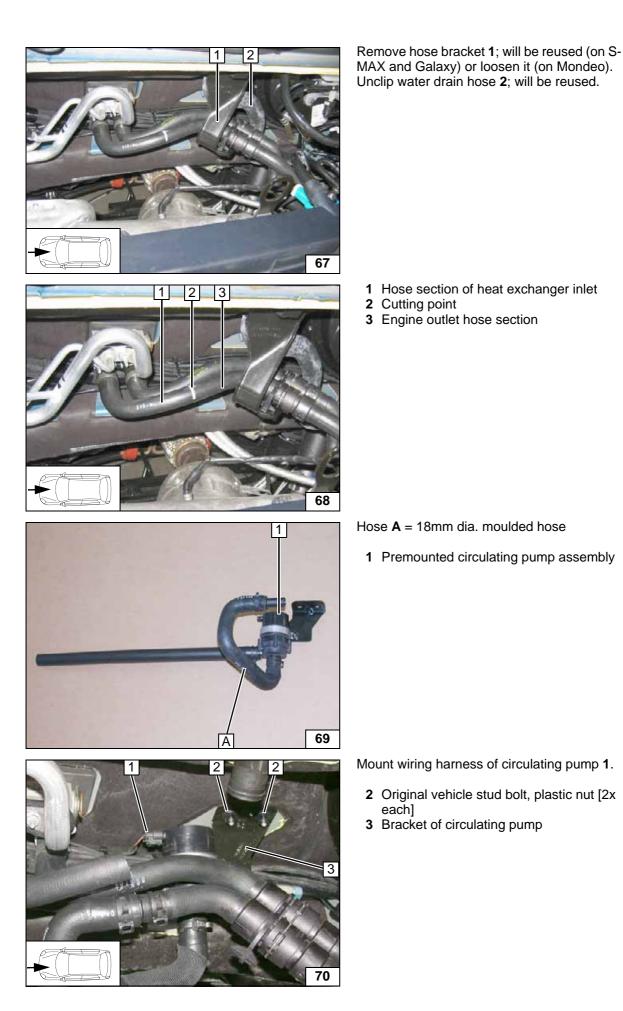


Preliminary work

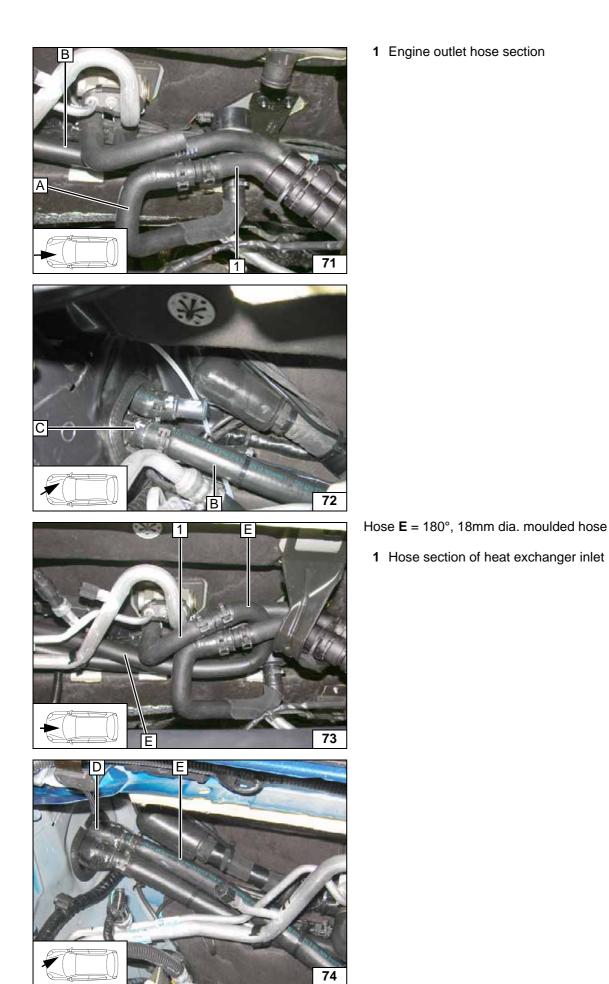
Cutting point

Mounting Hose A

Mounting circulating pump assembly







Connecting engine outlet

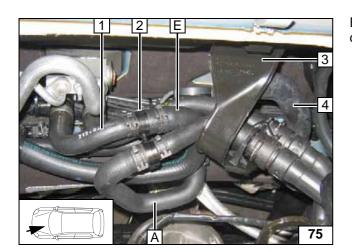
Connection on heater inlet



Connection heat exchanger inlet

Connection on heater outlet





Ensure sufficient distance from neighbouring components.

- 1 Hose section of heat exchanger inlet
- 2 Hose bracket
- 3 Hose bracket
- 4 Water drain hose



Installing hose bracket and water drain



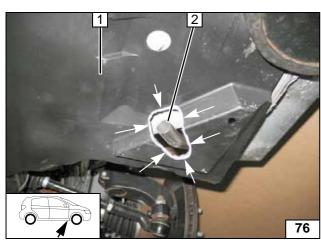
Final Work

WARNING!

Mount removed parts in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose wires.

Only use manufacturer-approved coolant. Spray heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Adjust digital timer, teach Telestart transmitter.
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Place the "Switch off parking heater before refuelling" signboard in the area of the filler neck.
- See installation instructions for initial startup and function check.
- Decode the radio according to the manufacturer's instructions



Cut out at marking in lower trim **1** (if installed) in area of exhaust outlet **2**.

Ensure sufficient distance from neighbouring components.

- 1 Exhaust end section
- 2 Lower trim







Cutting out underride protection



Exhaust end section

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

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# **Operating Instructions for End Customer**

Please remove this page in case of automatic air-conditioning and add it to the vehicle operating instructions.

## Note:

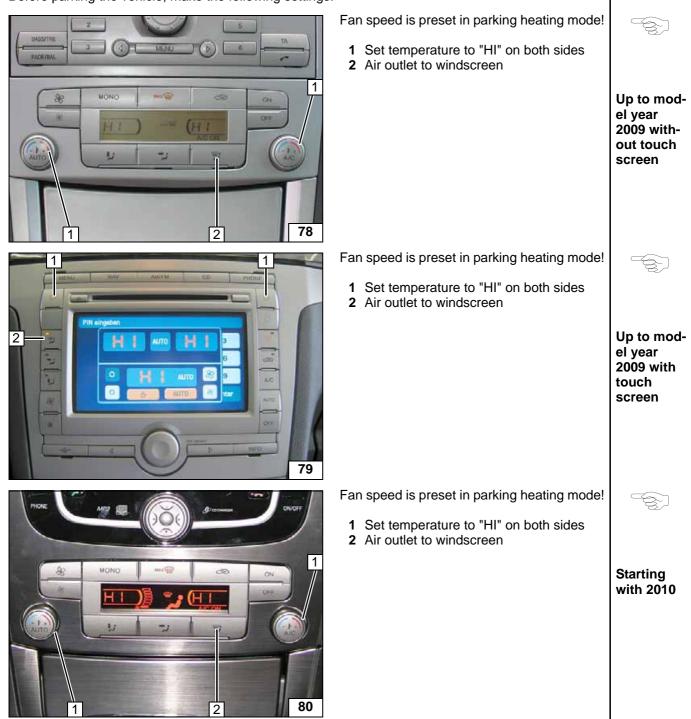
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time

of 20 min.

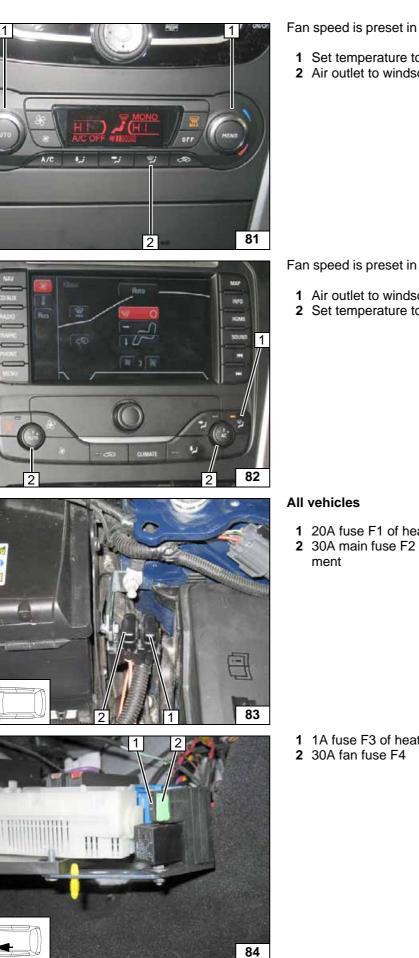
Passenger compartment monitoring , if installed, must be deactivated in addition to the vehicle settings for the heating operation.

Instructions for deactivation can be taken from the operating instructions manual of the vehicle.

Before parking the vehicle, make the following settings:







| Feel the Drive                                                                        |
|---------------------------------------------------------------------------------------|
| ing heating mode!                                                                     |
| " on both sides<br>n                                                                  |
| Starting<br>with model<br>year 2011<br>without<br>touch<br>screen                     |
| ing heating mode!                                                                     |
| n<br>" on both sides                                                                  |
| Starting<br>with model<br>year 2011<br>with touch<br>screen                           |
|                                                                                       |
| assenger compart-                                                                     |
| Fuses of<br>engine<br>compart-<br>ment                                                |
| ontrol                                                                                |
| Fuses of<br>passenger<br>compart-<br>ment                                             |
| assenger compart-<br>Fuses of<br>engine<br>compart-<br>ontrol<br>Fuses of<br>passenge |