

Water Heater

Thermo Top Evo Parking Heater

E1 00 0258

With FuelFix

Installation Documentation Peugeot 2008

Validity

Manufacturer		Model	Туре	EG BE No. / ABE		
Peugeot		2008	С	e2 * 2007 / 46 * 0070 *		
Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code	
1.2 PurTec	Petrol	6-speed SG	60	1199	HM01	
1.6 Blue HDi 100	Diesel	SG	73	1560	BH02	
1.6 Blue HDi 120	Diesel	SG	88	1560	BH01	

SG = manual transmission

From model year 2015 Left-hand drive vehicle

Verified equipment variants	: Manual air-conditioning 2 zone automatic air-conditioning Front fog lights LED daytime running lights Start - Stop Euro 6
Not verified:	Passenger compartment monitoring
Total installation time:	approx. 9.5 hours (petrol)

approx. 12.0 hours (diesel)

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Necessary Components

- · Basic delivery scope for Thermo Top Evo according to price list
- Installation kit with FuelFix for Peugeot 2008, MY: 2015 Petrol and diesel: 1324527A
- · Heater control in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and in consultation with end customer

Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about 1/4 full.
- The installation location of the push button in case of Telestart or Thermo Call should be confirmed with the end customer.
- Depending on the space required and the vehicle manufacturer's instructions, we recommend the use of a vehicle battery with a higher electrical capacity.

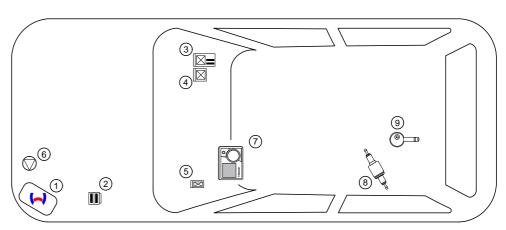
Installation Overview

Legend:

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

Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater. The total installation time may vary for vehicle equipment other than provided.



Information on Operating and Installation Instructions

1 Important information (not complete)

1.1 Installation and repair

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



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

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

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

1.2 Operation

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

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation.

Always switch off the heater before refuelling.

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

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

1.3 Please note

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

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

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

Important

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs, installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses or original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and the 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 StV-ZO (German Road Traffic Licensing Authority).

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

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

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

VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.

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

2.2. Positioning of heater

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

2.3. Fuel supply

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

2.4. Exhaust system

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

2.5. Combustion air inlet

2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.

2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

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

2.7. Heating air outlet

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

End of excerpt.

In multilingual versions the German language is binding.

Information on Validity

This installation documentation applies to Peugeot 2008 Petrol and 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

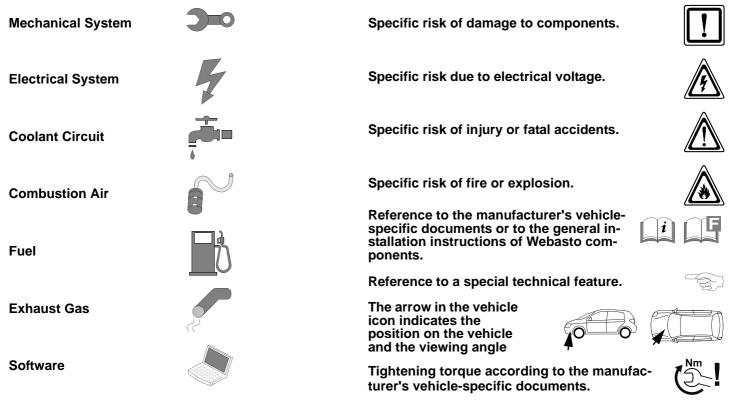
All dimensions are in mm.

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:



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Preliminary Work

Vehicle

!

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and completely remove the battery together with the carrier.
- Remove the bracket of the vacuum sensor on the brake booster.
- Remove the windscreen wiper.
- Remove the cowl panel.
- Remove the lower engine cover (if present).
- Remove the underride protection on the left (if present).
- Remove the wheel well trim on the left.
- Remove the bumper trim.
- Detach the rear bench seat (clipped in).
- Remove the lower instrument panel trim on the driver's side and front passenger's side.
- Remove the glove box.
- Loosen the A/C control panel (see installation instructions).

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

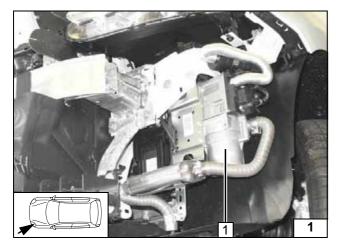
• Open the tank-fitting service lid on the left.

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.



D

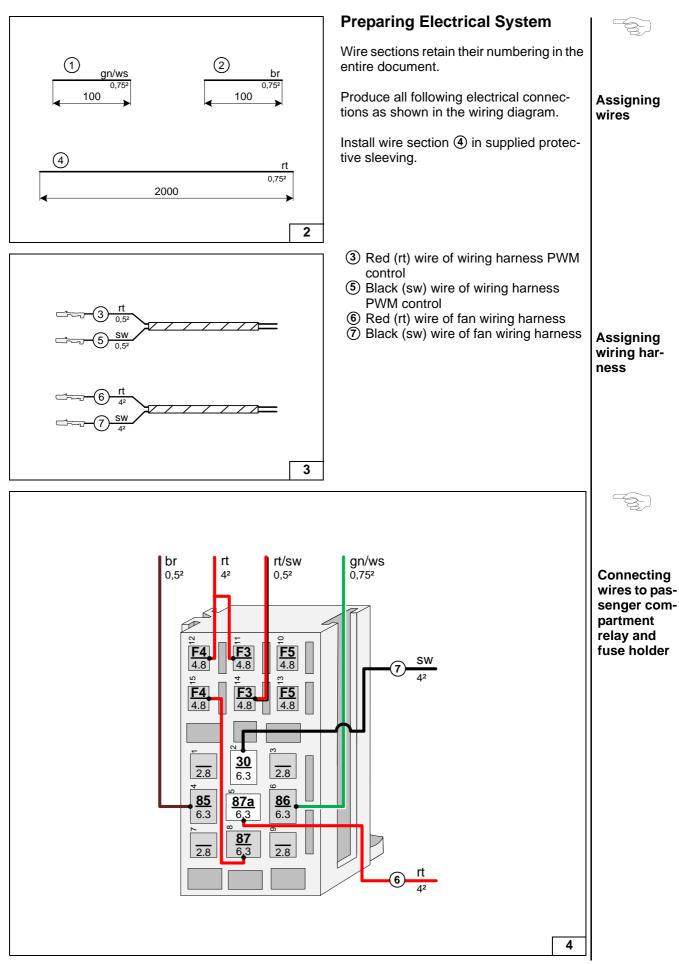


Heater Installation Location

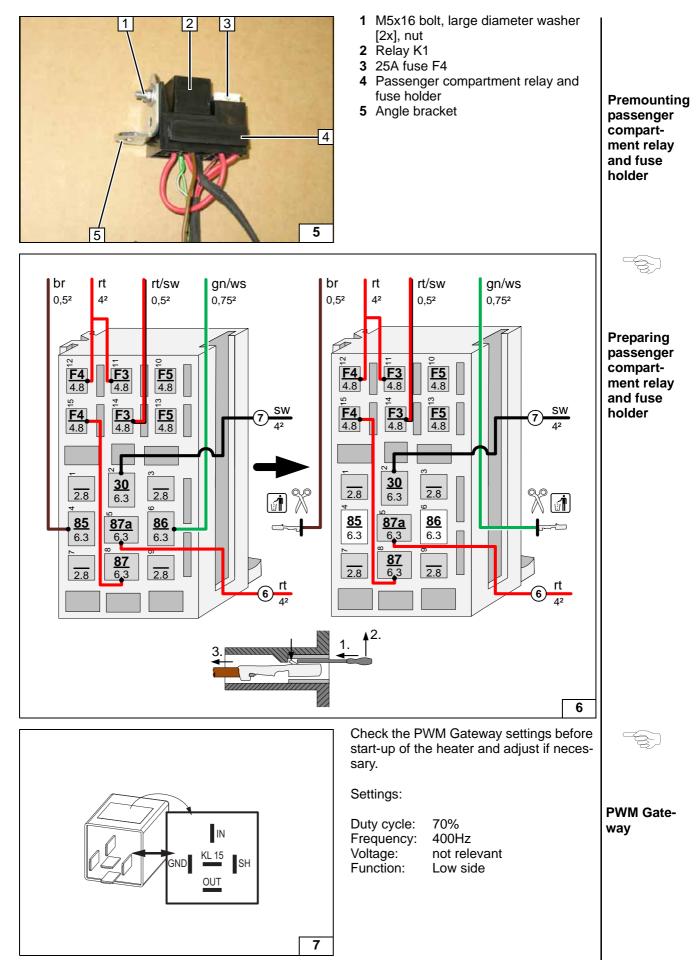
1 Heater

Installation location

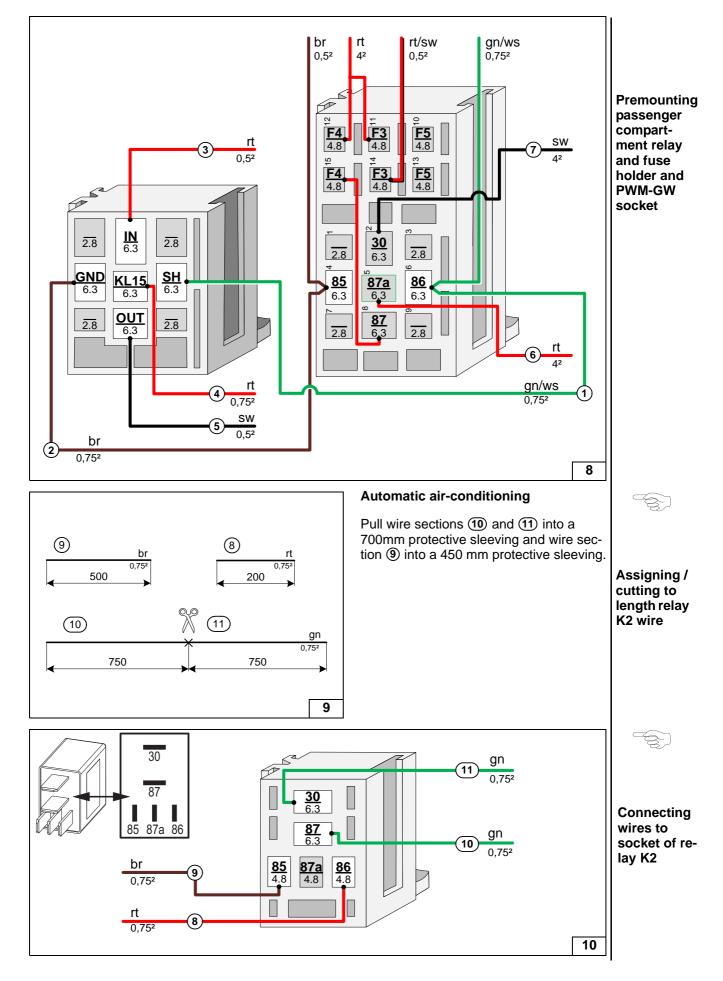




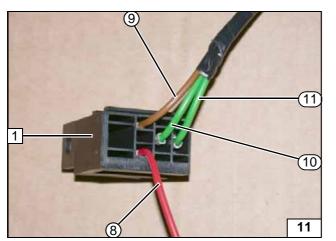












- Relay K2 socket
 Red (rt) wire of K2/86
 Brown (br) wire of K2/85
 Green (gn) wire of K2/87
 Green (gn) wire of K2/30

Premounting relay K2



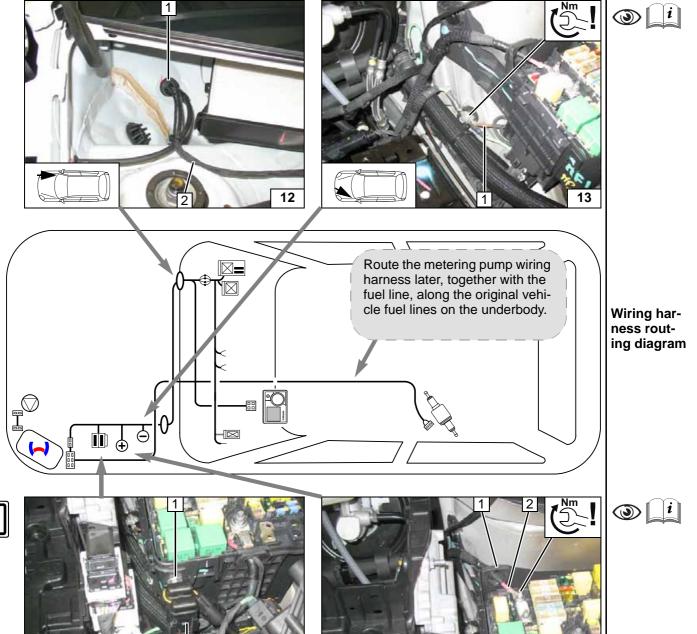
Passenger compartment wiring harness pass through

Wiring harness routing see next page.

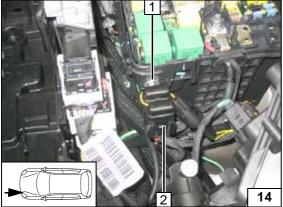
1 Protective rubber plug of window washer system 2 Wiring harnesses of heater and heater control

Earth wire

1 Earth wire on original vehicle earth support point







Engine compartment fuse holder

5.5 mm dia. hole at position 1. When drilling, be careful of components located behind!

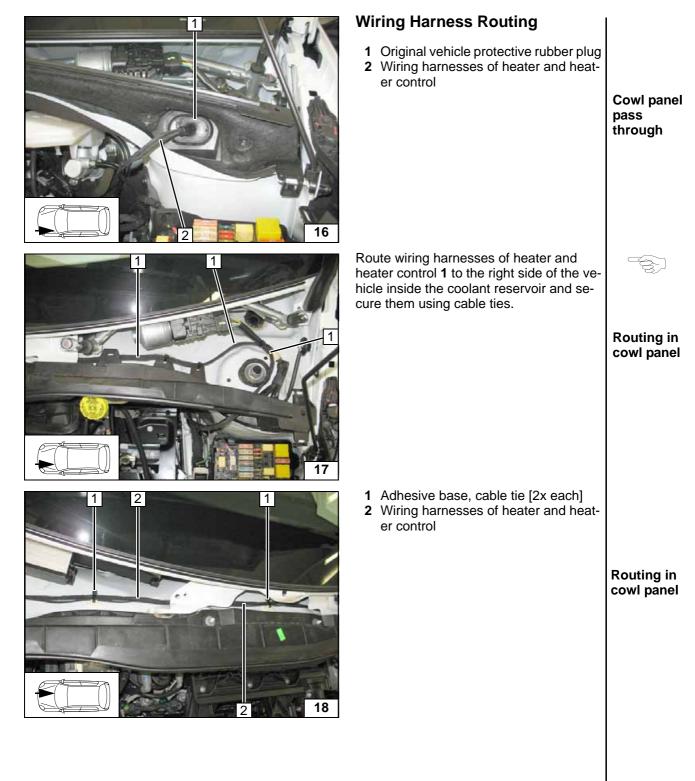
- 1 M5x16 bolt, washer [2x], retaining plate of fuse holder, nut
- 2 Fuses F1-2

Positive wire

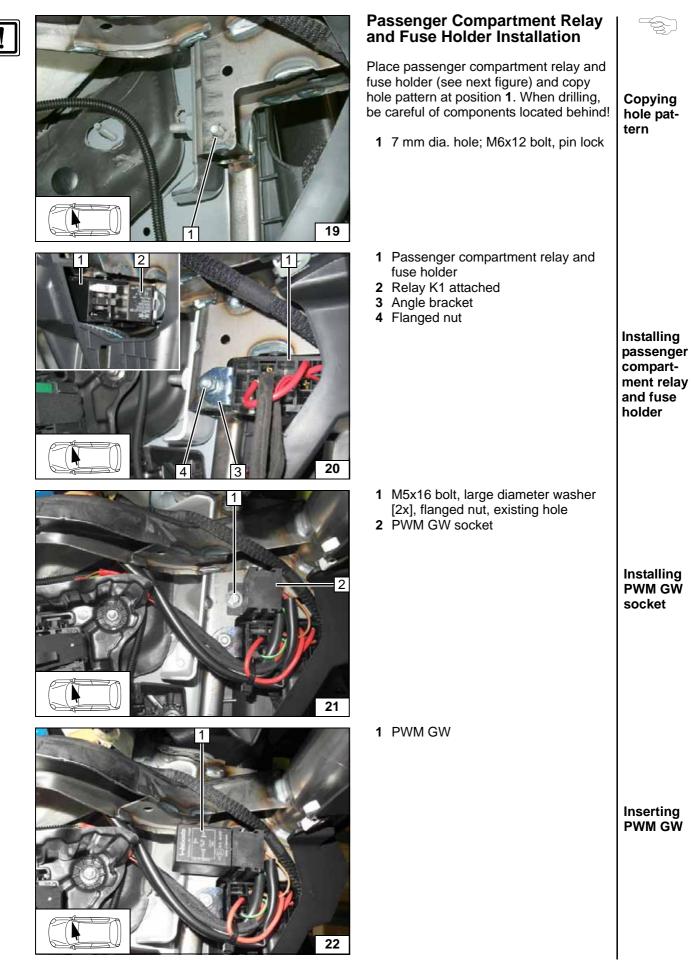
- 1 Protective rubber plug
- 2 Positive wire on original vehicle positive distributor

15

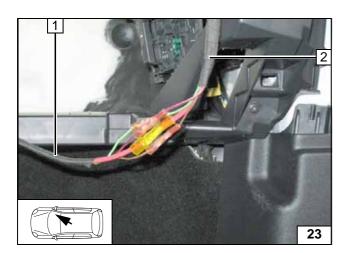










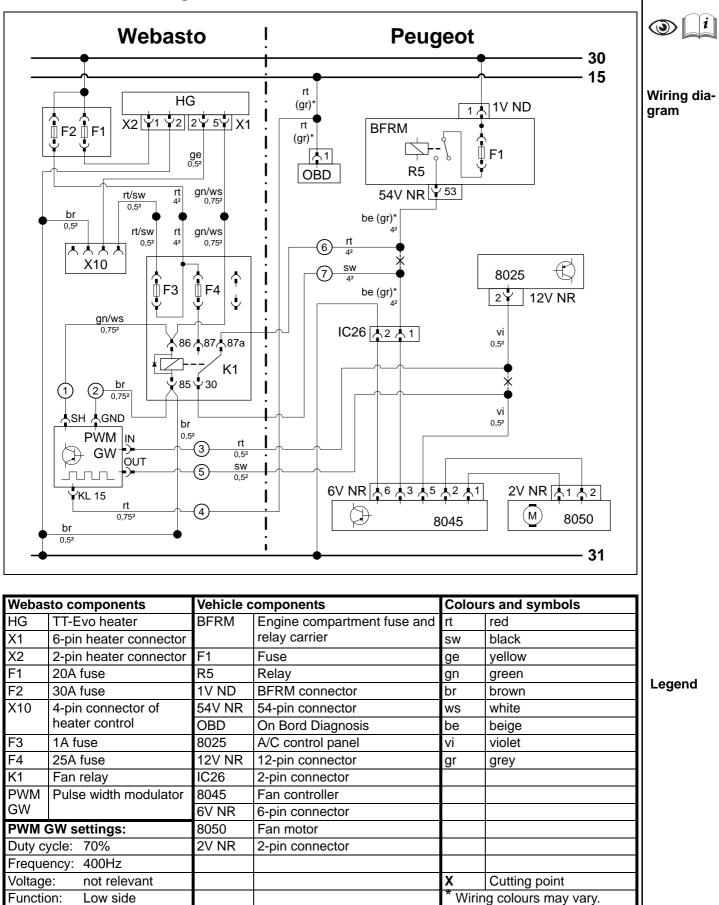


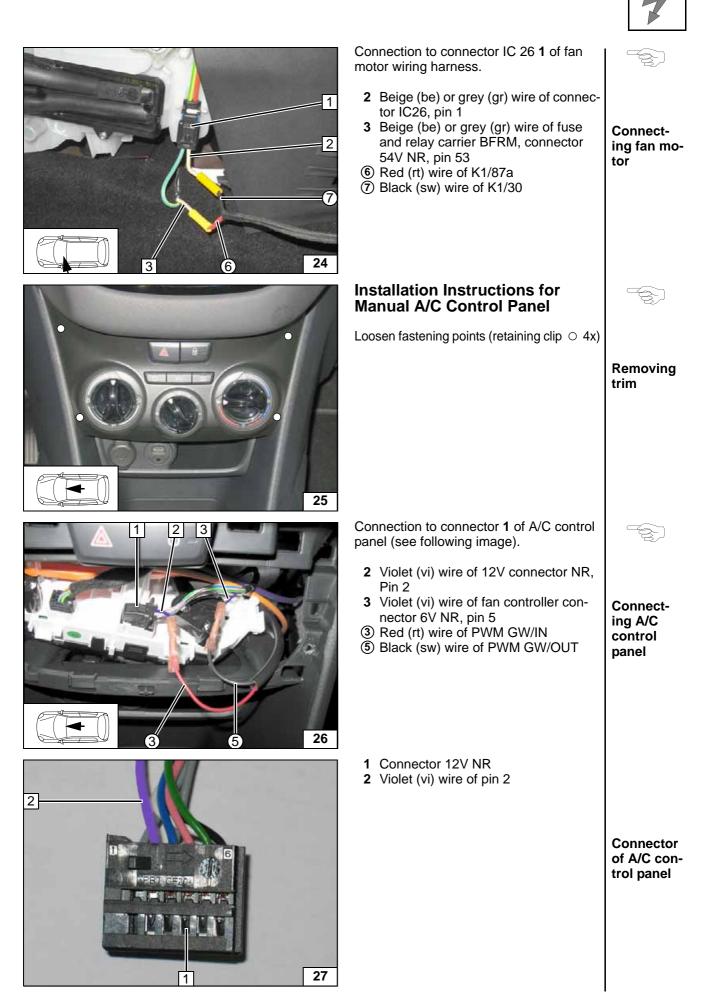
- Heater wiring harness
 Passenger compartment relay and fuse holder wiring harness

Connecting same colour wires of wiring harnesses



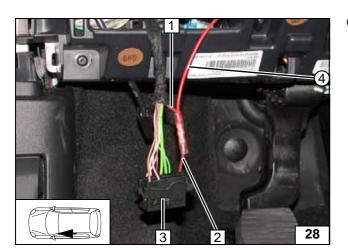
Manual Air-Conditioning Fan Controller







3



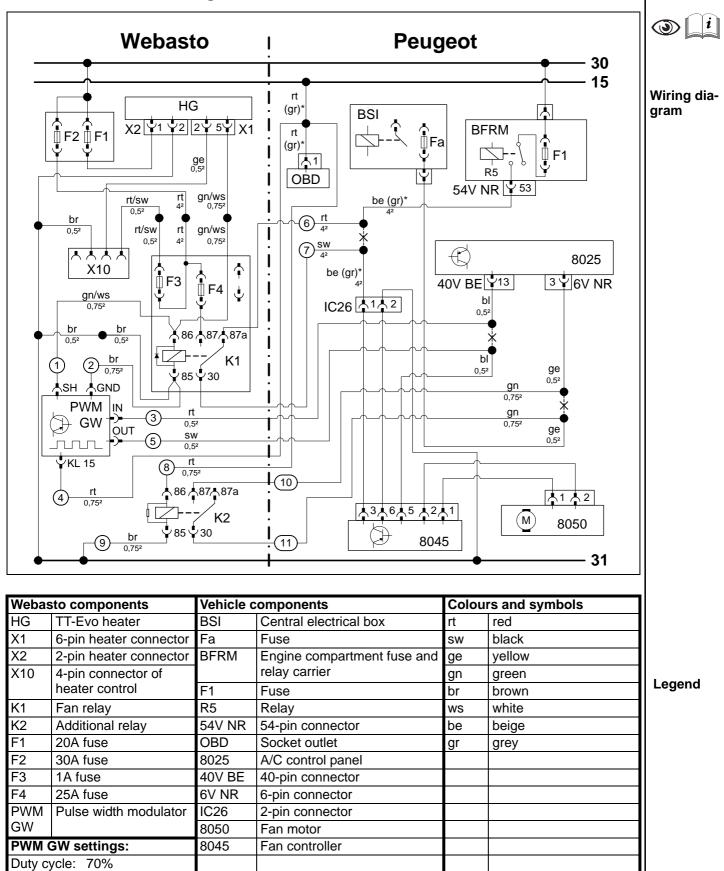
Connection to OBD-socket outlet 3, pin 1.

- Red (rt) or grey (gr) wire of terminal 15
 Red (rt) or grey (gr) wire of OBD socket outlet, pin 1
 Red (rt) wire of PWM GW/KL 15

Connecting terminal 15



Automatic Air-Conditioning Fan Controller



not necessary

Low side

Frequency: 400Hz

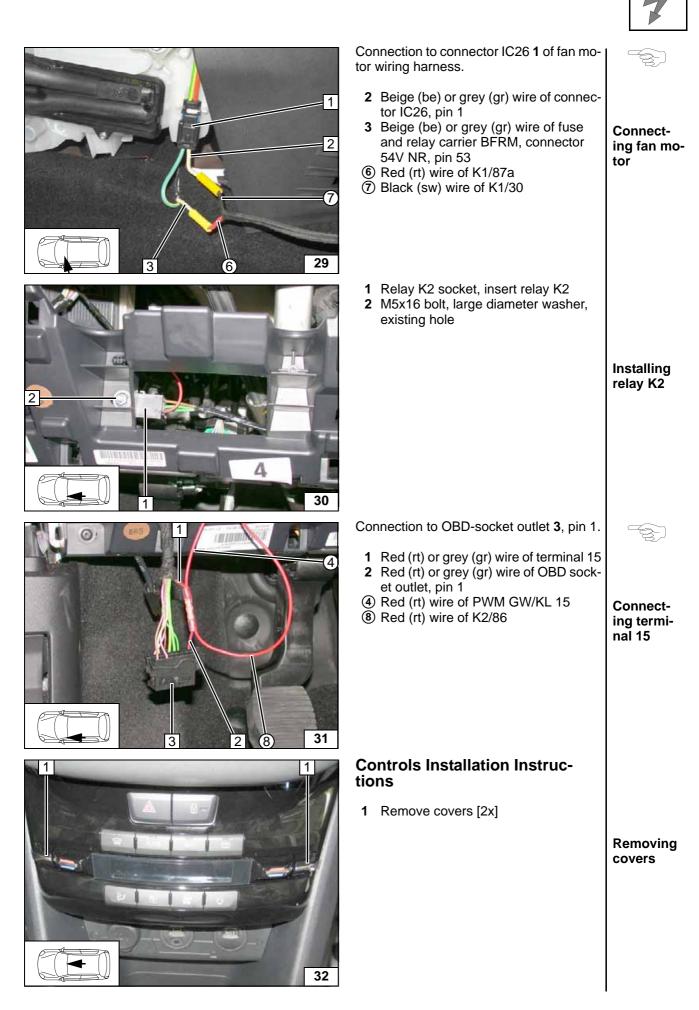
Voltage:

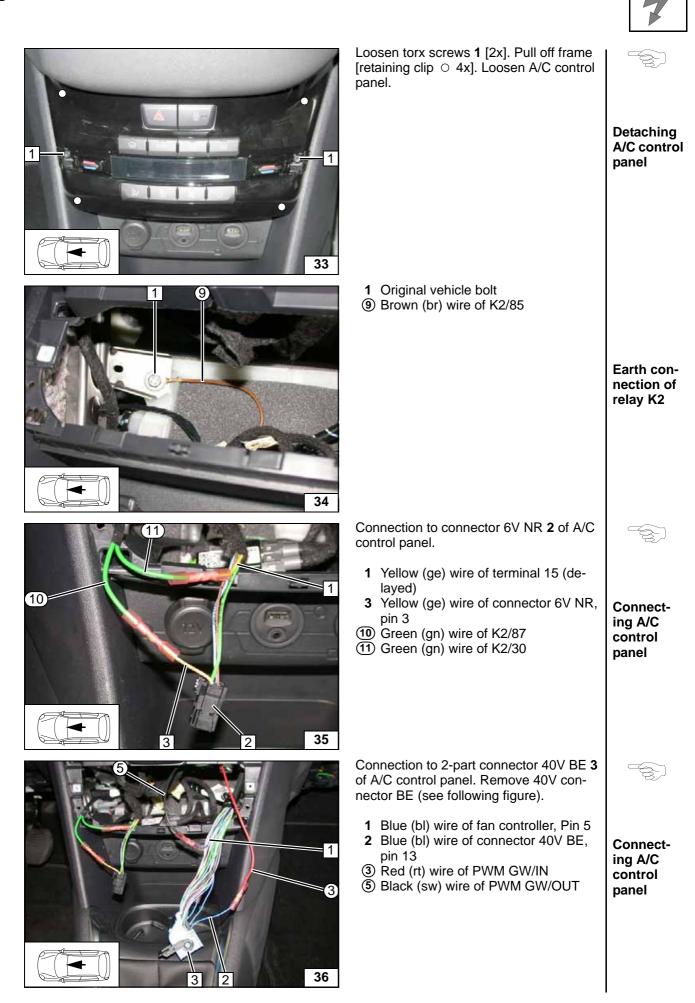
Function:

Х

Cutting point

Wiring colours may vary.









Connector of A/C control panel

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Installing MultiControl

i

CAR

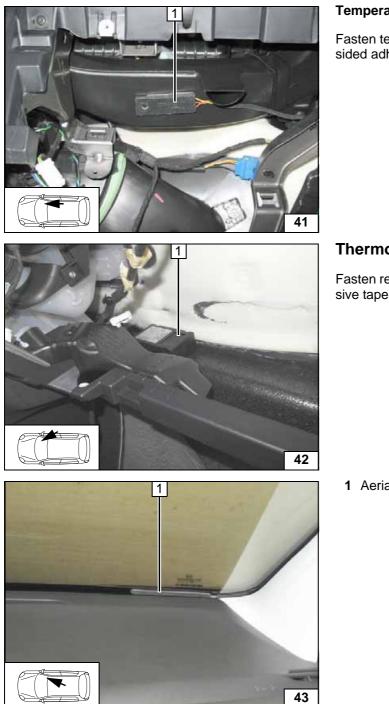
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Installing receiver

Installing aerial

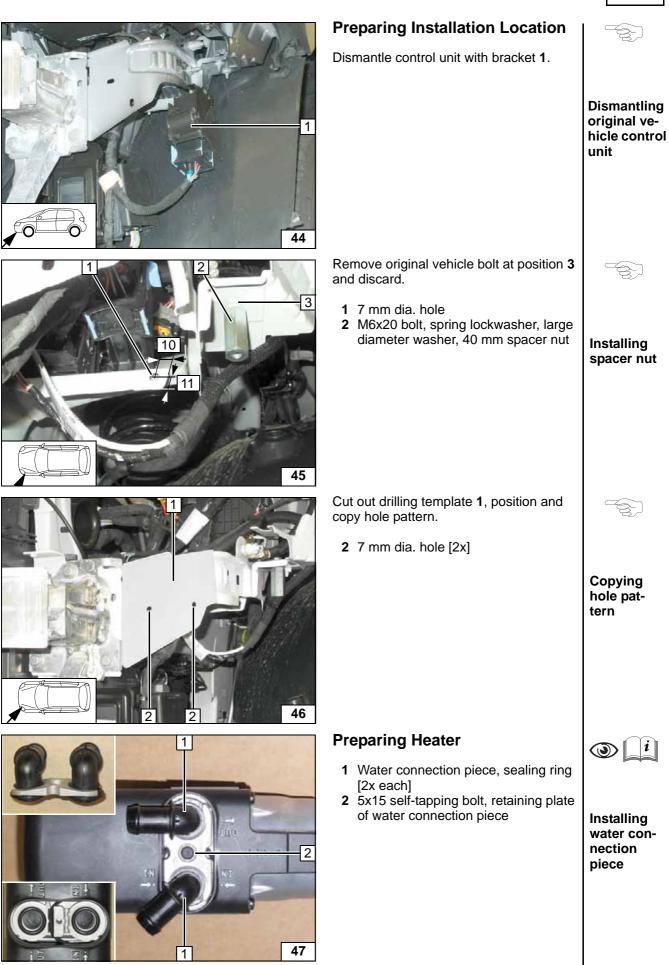
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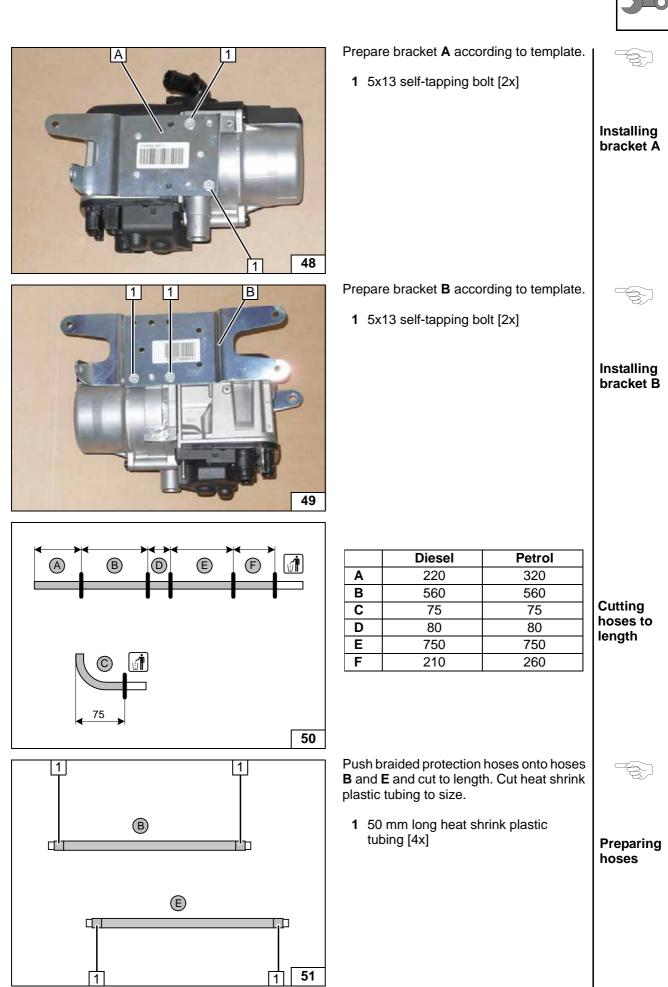




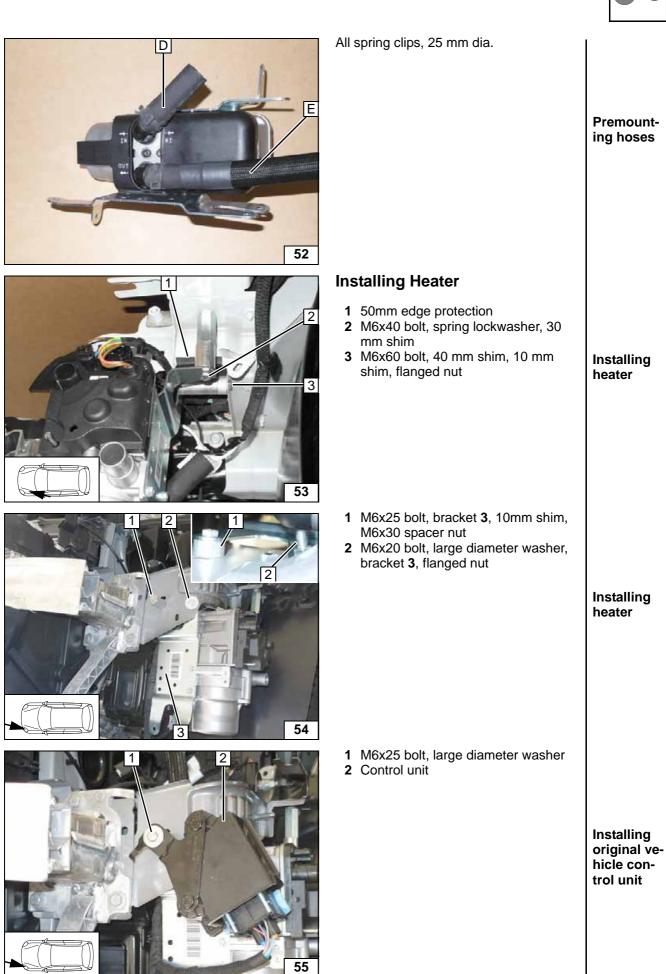
mperature sensor T100 HTM sten temperature sensor 1 with double-	
ed adhesive tape.	Installing tempera- ture sensor
ermoCall Option sten receiver 1 with double-sided adhe- e tape.	(3) (i) Installing receiver
Aerial (optional)	Installing aerial













 Heater wiring harness connector [2x]
 Connector of circulating pump wiring harness

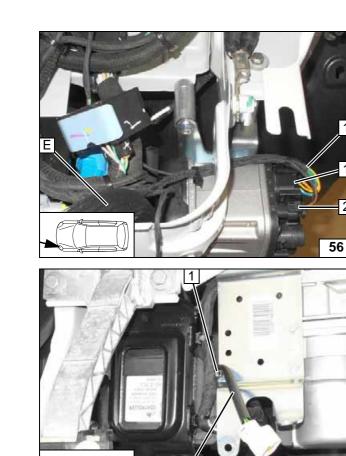
> Installing wiring harnesses

Cable tie, existing hole
 Wiring harness of front fog light

2

57

Attaching wiring harness





Fuel



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

Cat

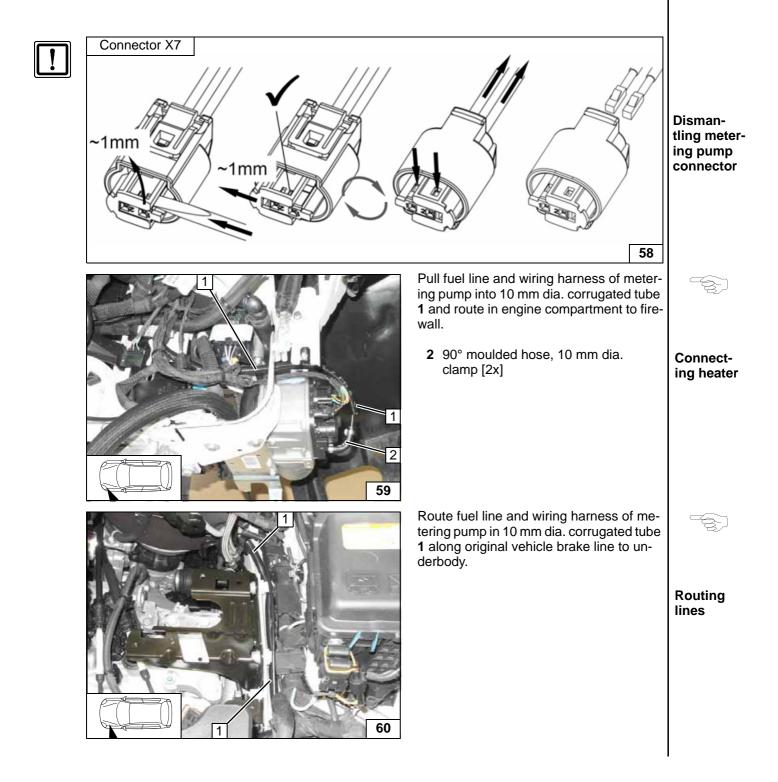
Catch any fuel running off in an appropriate container.



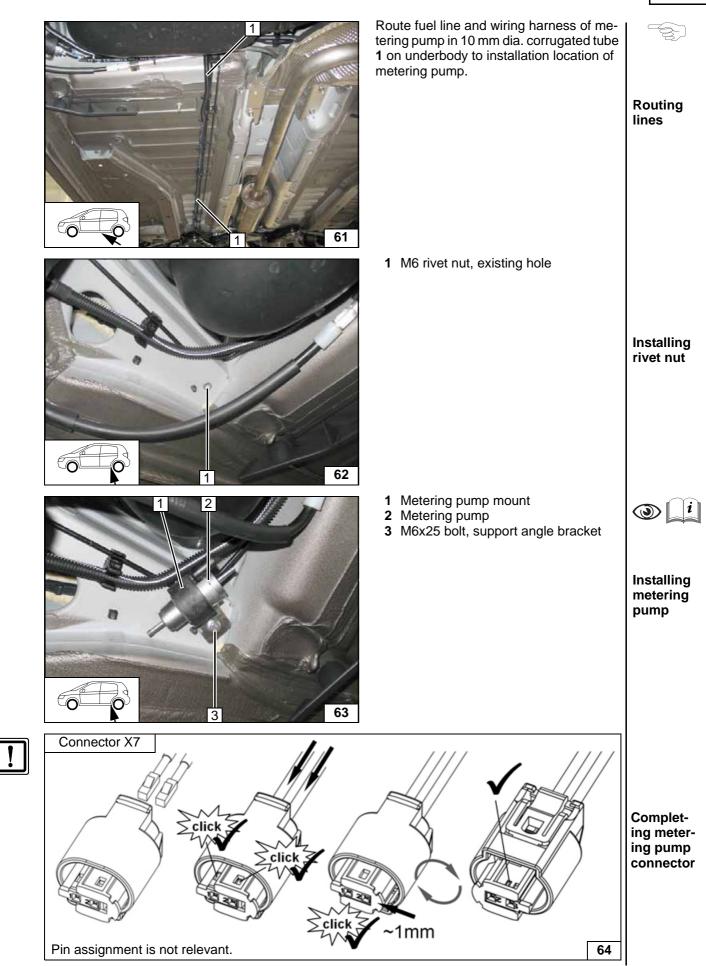
Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties.

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

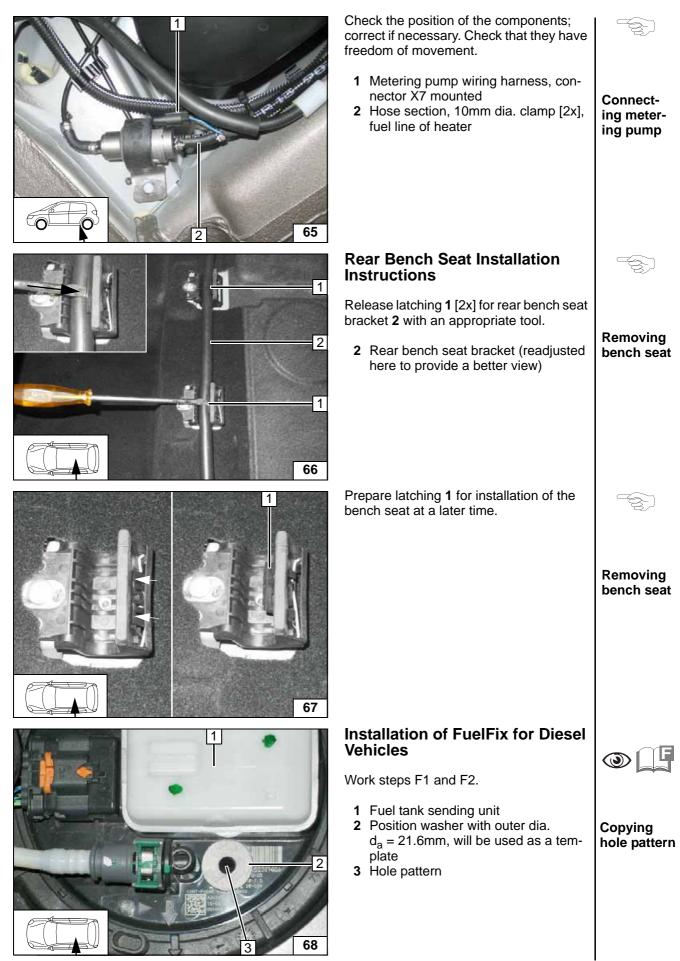
The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.



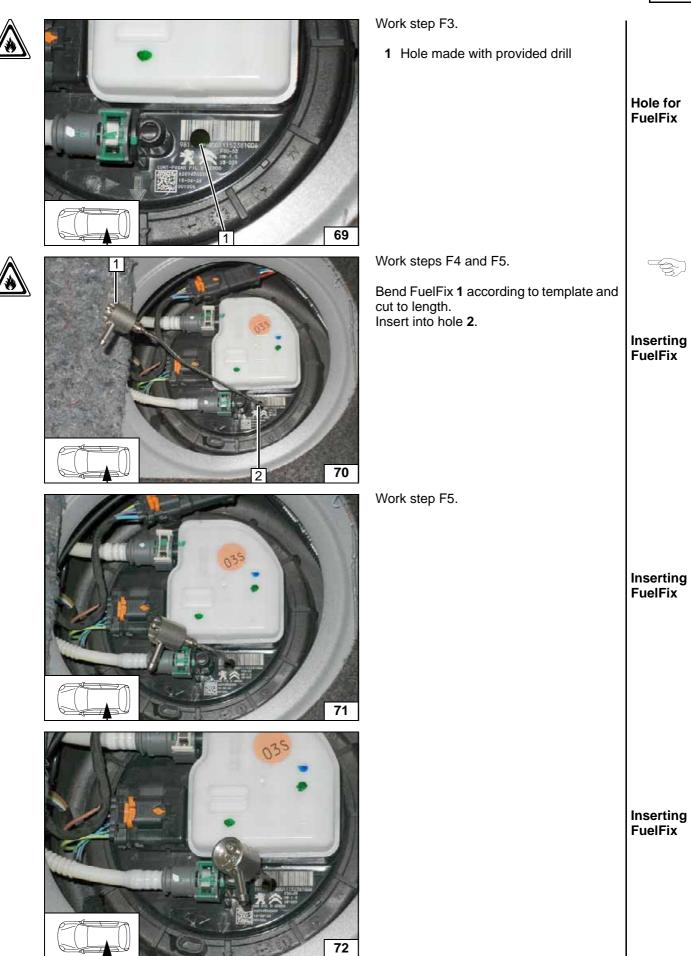




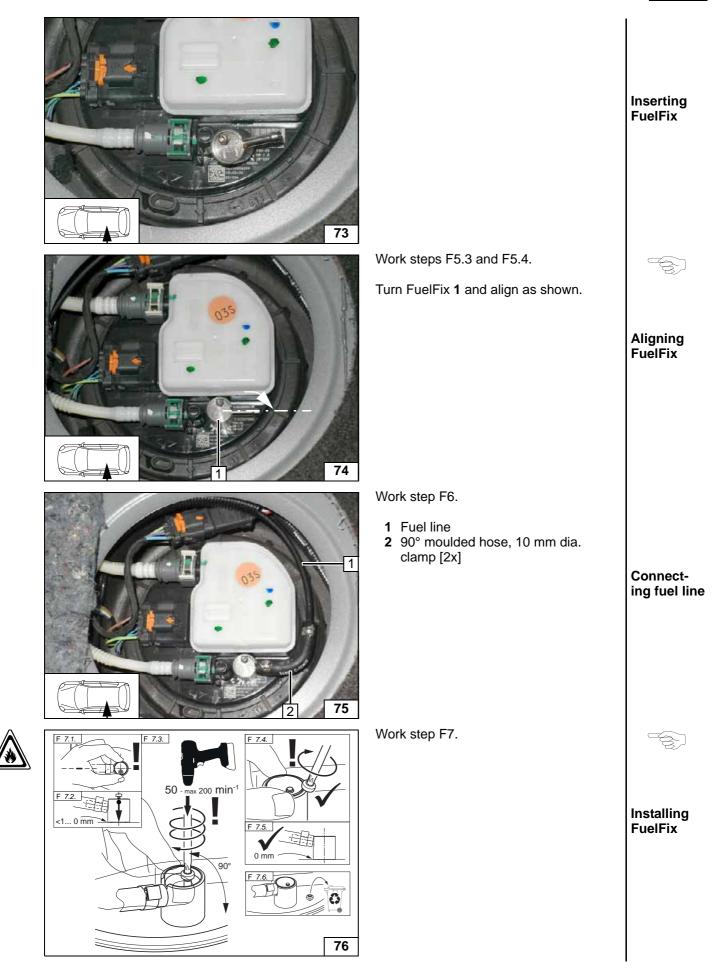




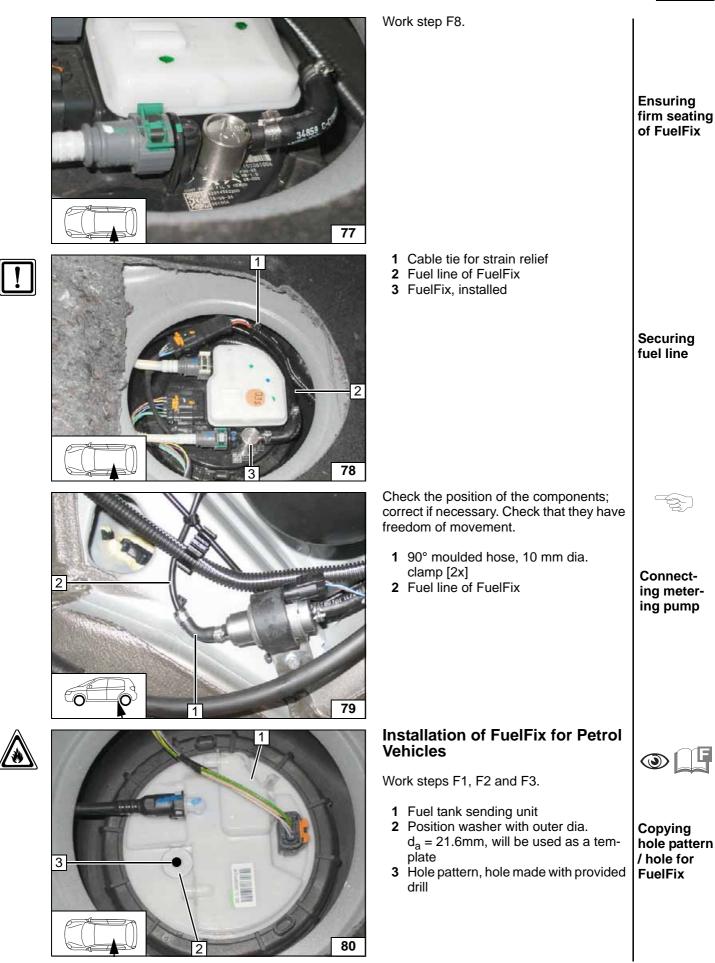






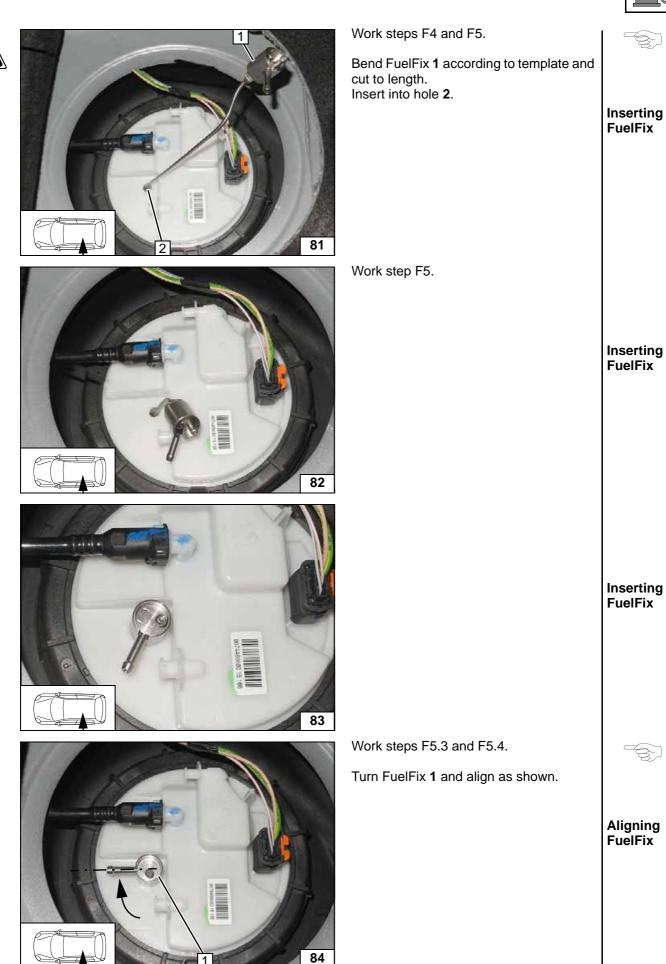






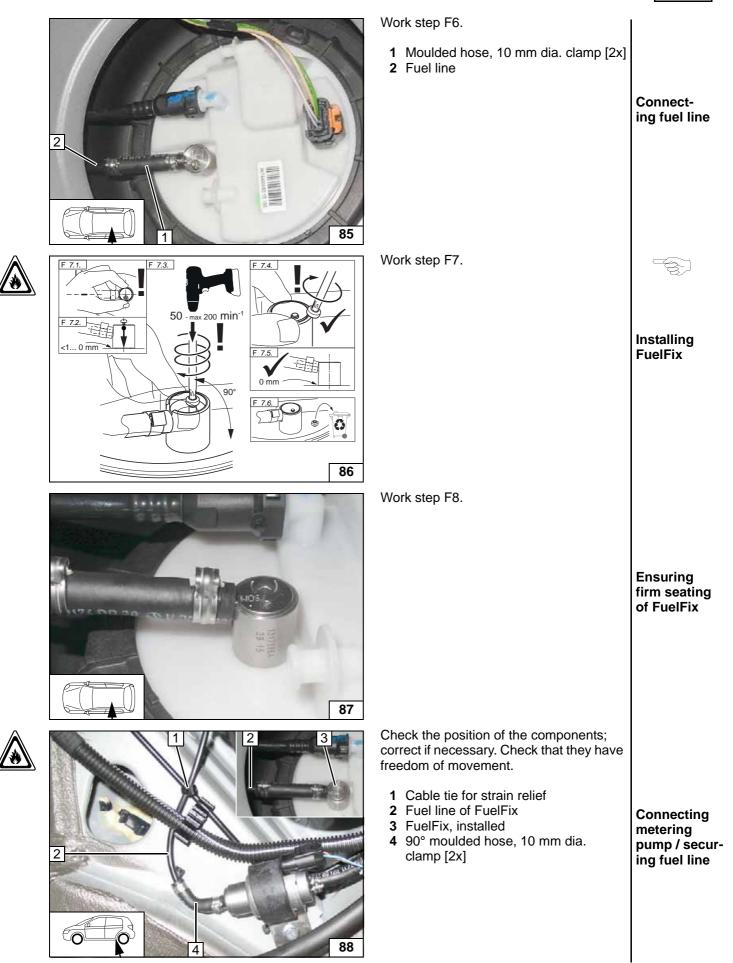
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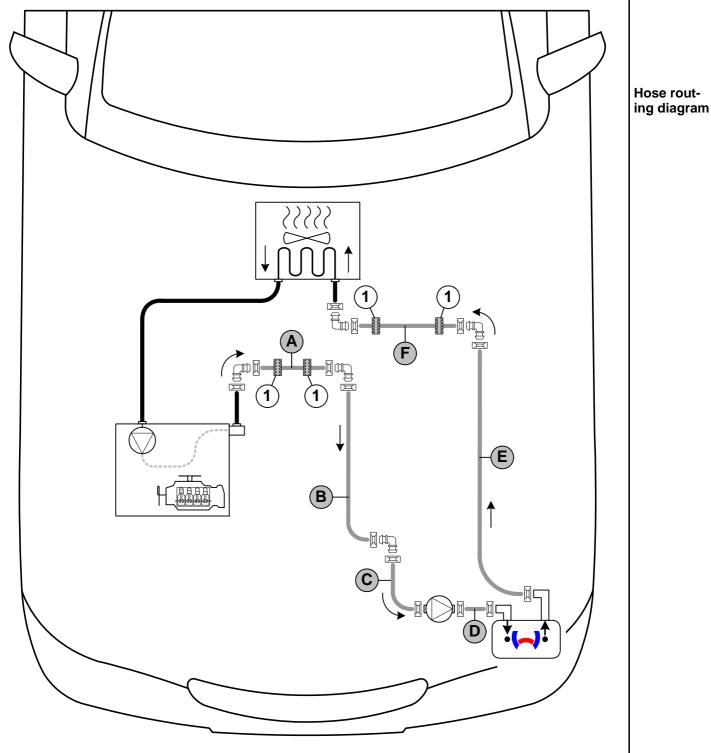


Coolant Circuit



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 $\square = 25$ mm dia. All connecting pipes $\square = 18x18$ mm dia. **1** = Black (sw) rubber isolator \blacksquare .



Preparing circulating

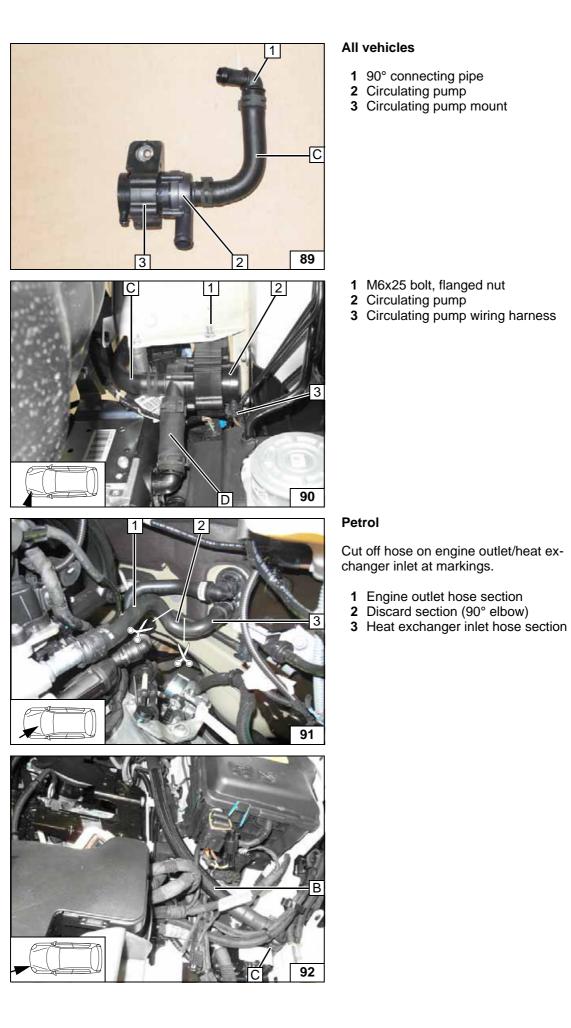
Installation of circulating pump

Cutting

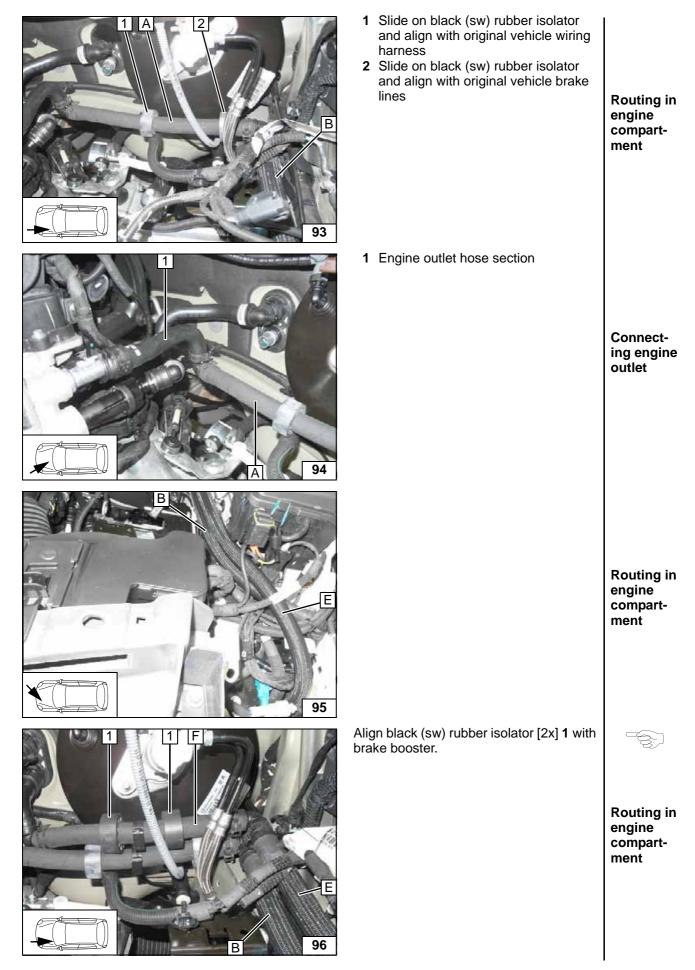
Routing in engine compartment

point

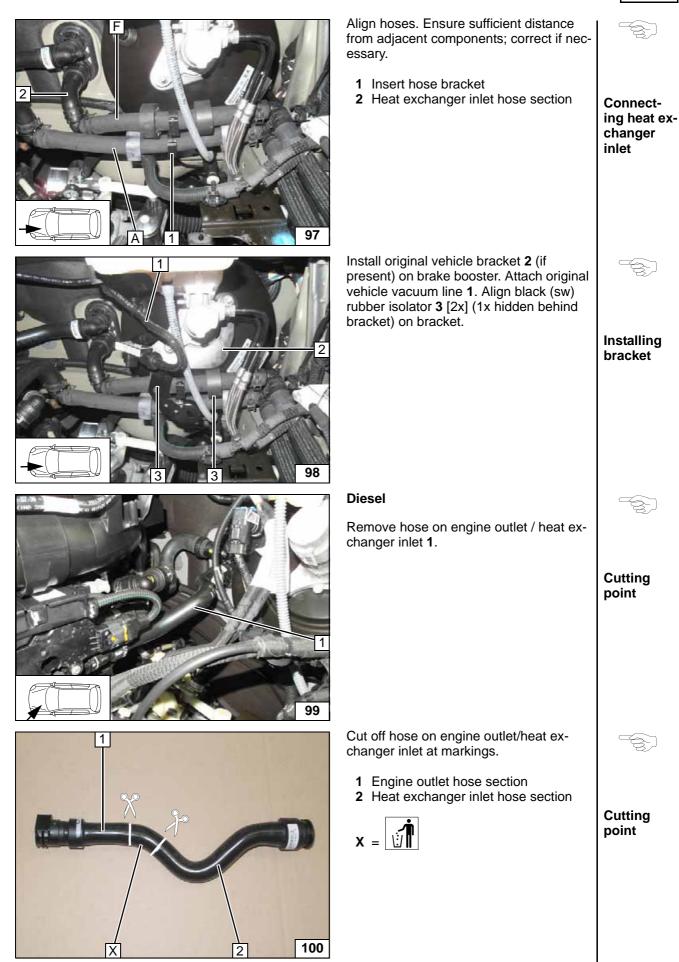
pump



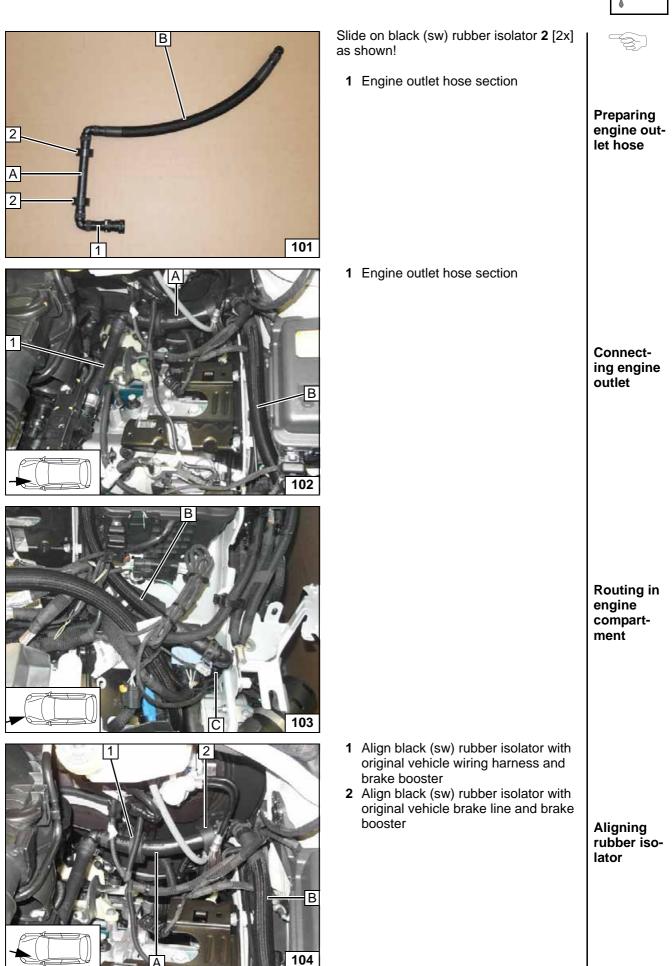




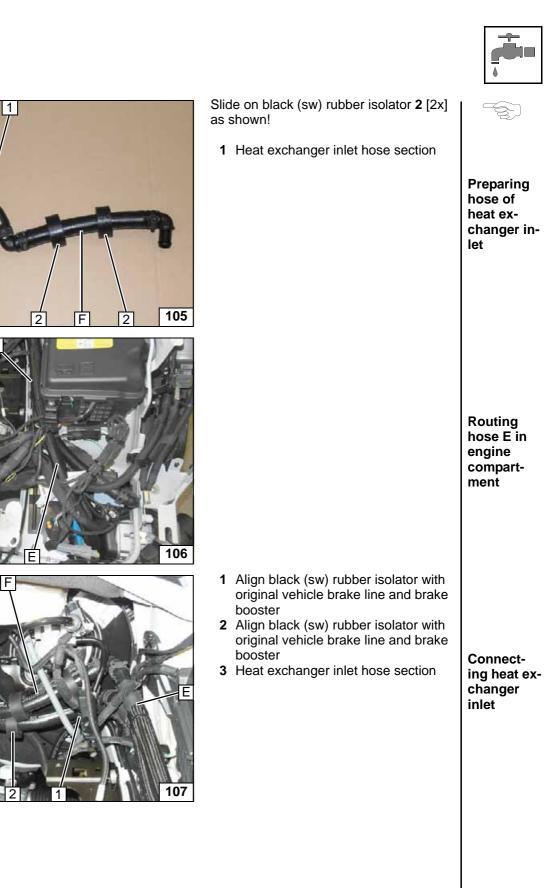




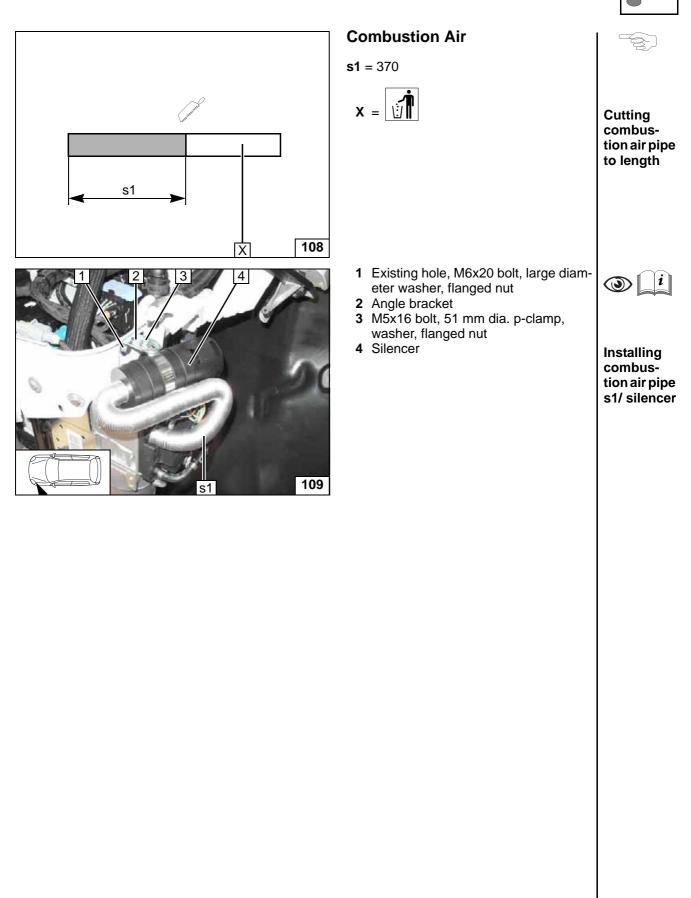




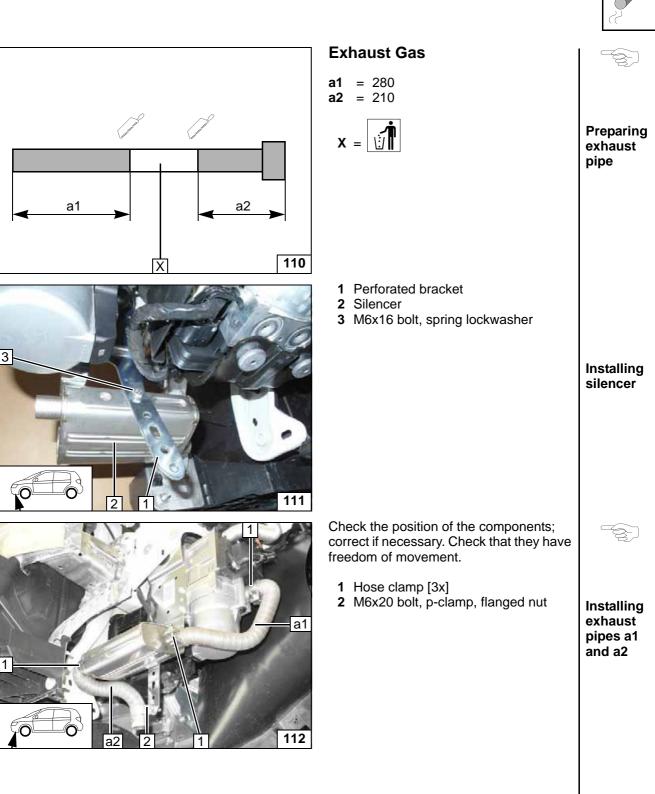
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Ident. No.: 1324528A_EN



Peugeot 2008

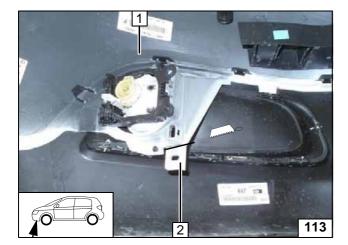
Final Work



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

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

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



Cut off tab **2** along the cutting line and discard.

1 Bumper (interior view)



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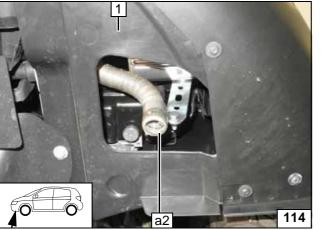
Ensure sufficient distance from adjacent components; correct if necessary.

1 Wheel well trim mounted

Aligning exhaust pipe a2

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

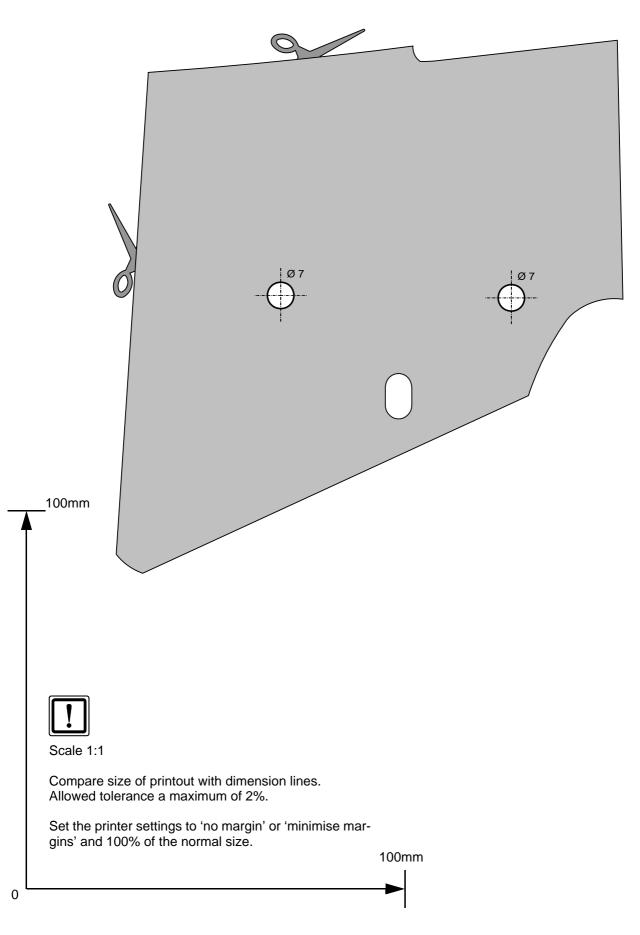




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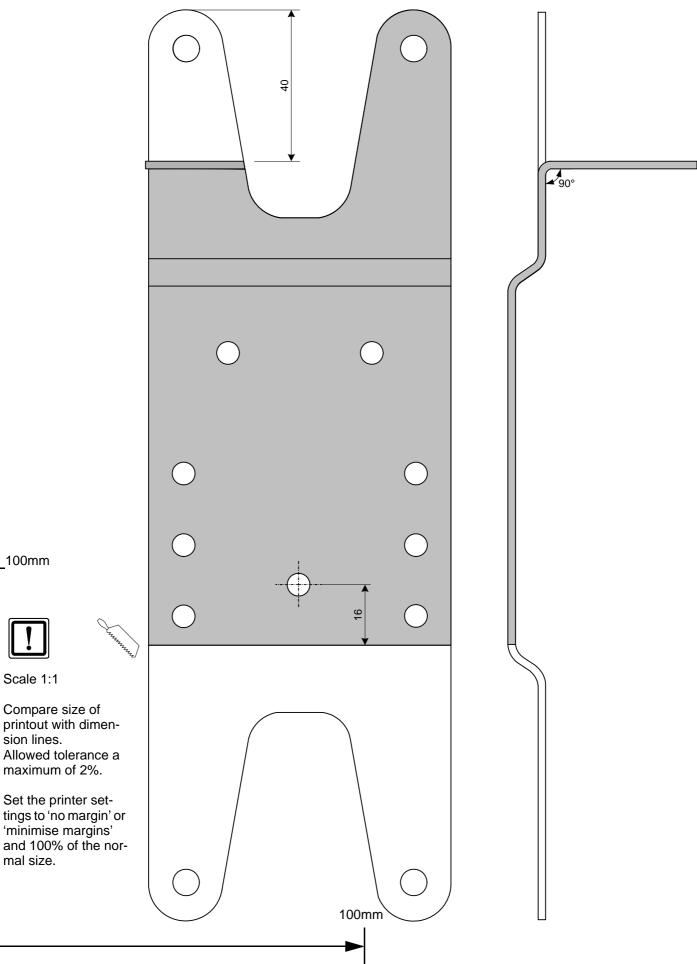
Drilling Template







Template for Bracket A

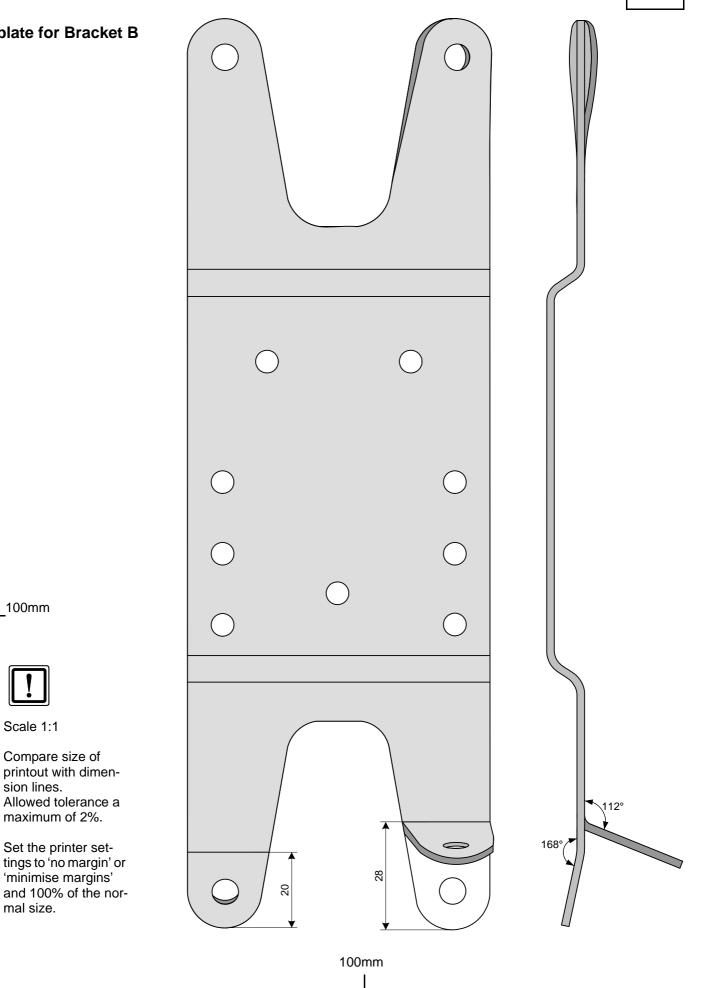


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Template for Bracket B







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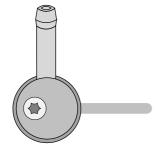
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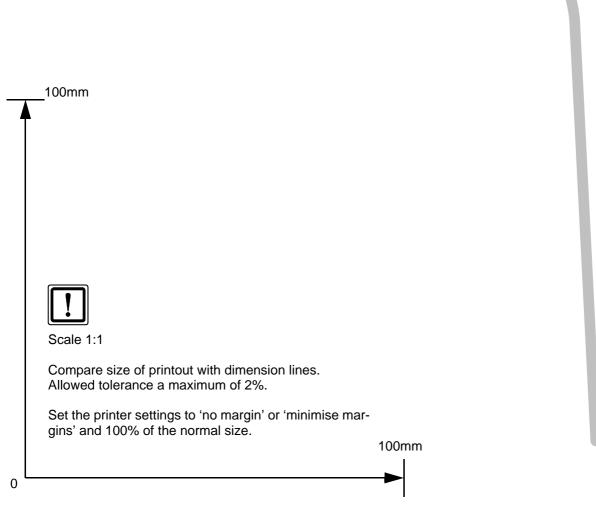
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FuelFix Template for Diesel Vehicles



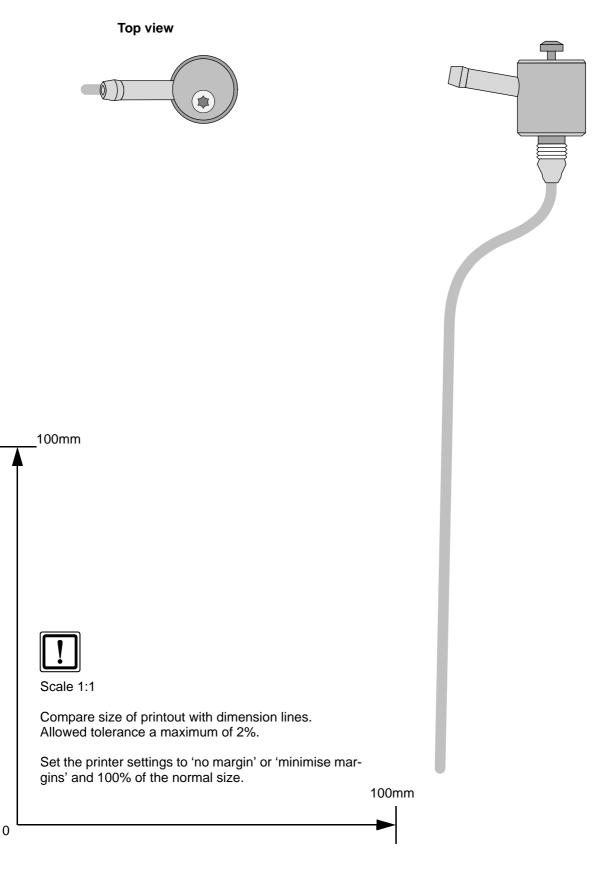








FuelFix Template for Petrol Vehicles





Operating Instructions for Manual Air-Conditioning

Please remove page and add to the vehicle operating instructions.

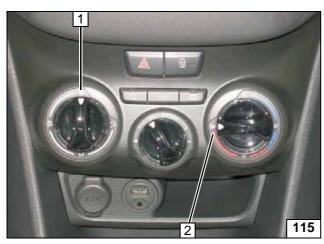
Note:

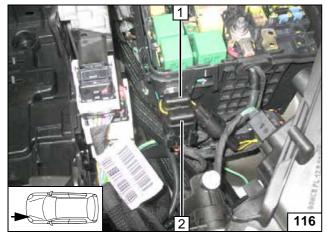
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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 25A fan fuse F4

2 20A heater fuse F1

1 30A passenger compartment main fuse F2

1 Air outlet to windscreen

2 Set temperature to 'max.'

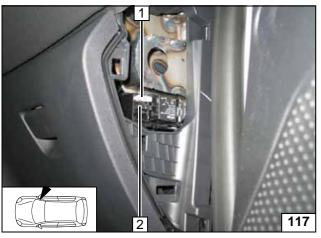
2 1A heater control fuse F3

i

A/C control panel

Engine compartment fuses

Passenger compartment fuses





i

A/C control panel

Operating Instructions for Automatic Air-Conditioning

Please remove page and add to the vehicle operating instructions.

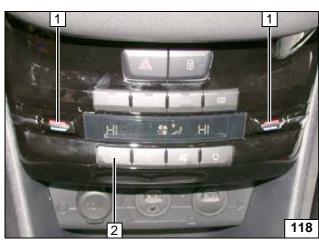
Note:

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.

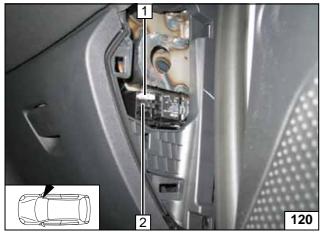
Passenger compartment monitoring , if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







Set temperature on both sides to 'HI'
 Air outlet turned 'upwards'

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

es

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

Passenger compartment fuses