

BH01

### Thermo Top Evo Parking Heater



# Installation Documentation Citroen Berlingo / Peugeot Partner

### Validity

1.6

Manufacturer Model Type EG BE No. / ABE					
Citroen         Berlingo         7         e2 * 2001 / 116 * 0366 *		6 *			
Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.6	Diesel (HDI 90)	71	68	1560	9HP
1.6	Diesel (eHDI 90	0	68	1560	9HP
1.6	Diesel (Blue HD	DI) 5-gear SG	73	1560	BH02

88

1560

SG = manual transmission

EGS 6 = electronically controlled 6-gear transmission

Diesel (Blue HDI)

From model year 2012 Left-hand drive vehicle

Verified equipment variants: Manual / automatic air-conditioning system Front fog lights

5-gear SG

Stop / start

Peugeot Partner 7 e2 * 2001 / 116 * 0365 *	Manufacturer	Model	Туре	EG BE No. / ABE
	Peugeot	Partner	7	e2 * 2001 / 116 * 0365 *

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.6	Diesel (eHDI 92)	5-gear SG	68	1560	9H06
1.6	Diesel (eHDI 92)	EGS 6	68	1560	9H06
1.6	Diesel (Blue HDI)	5-gear SG	73	1560	BH02
1.6	Diesel (Blue HDI)	5-gear SG	88	1560	BH01

SG = manual transmission

EGS 6 = Electronically controlled 6-gear transmission

#### From model year 2014 Left-hand drive vehicle

Verified equipment variants:	Manual air-conditioning
	Automatic air-conditioning (88 kW)
	Front fog lights
	LED daytime running lights
	Stop / start

Total installation time:approx. 7 hoursapprox. 8 hours in case of 73/88 kW

### Citroen Berlingo / Peugeot Partner

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### **Necessary Components**

- Basic delivery scope of Thermo Top Evo according to price list
- Installation kit for Citroen Berlingo / Peugeot Partner 2012 Diesel: 1318864C
- To be ordered additionally in case of automatic air-conditioning: Additional kit AAC Citroen Berlingo 1.6 eHDI: **1318866B**
- To be ordered additionally in case of 73/88 kW: Additional kit for fuel standpipe: **1324611A**
- 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. Circulating pump
- 5. PWM Gateway (only in case of automatic air-conditioning)
- 6. MultiControl CAR
- 7. Metering pump

# 

### 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.

(1

### Information on Operating and Installation Instructions

#### 1 Important information (not complete)

#### 1.1 Installation and repair

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



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

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

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

#### 1.2 Operation

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

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

Always switch off the heater before refuelling.

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

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

#### 1.3 Please note

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

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

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

#### Important

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

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

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

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components!

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

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

#### 2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 04 5627

#### Note

The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

#### Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

#### Note

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StVZO (German Road Traffic Licensing Authority).

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

Beginning of excerpt.

#### **ANNEX VII**

#### REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

#### 1. GENERAL REQUIREMENTS

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

#### VEHICLE INSTALLATION REQUIREMENTS

#### 2.1. Scope

2.

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

#### 2.2. Positioning of heater

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

#### 2.3. Fuel supply

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

#### 2.4. Exhaust system

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

#### 2.5. Combustion air inlet

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

#### 2.6. Heating air inlet

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

#### 2.7. Heating air outlet

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

#### End of excerpt.

In multilingual versions the German language is binding.

### **Citroen Berlingo / Peugeot Partner**

### Information on Validity

This installation documentation applies to Citroen Berlingo diesel vehicles from model year 2012 and later as well as Peugeot Partner vehicles from model year 2014 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 other specifications not listed in this installation documentation have not been tested. However, installation according to this installation documentation may be possible.

### **Technical Information**

#### **Special Tools**

- · Hose clamp pliers for auto-tightening hose clamps
- Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 6mm<sup>2</sup>
- Crimping pliers for cable lug / tab connector 0.5 6mm<sup>2</sup>
- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- Deep-hole marker
- · Webasto Thermo Test Diagnosis with current software

#### Dimensions

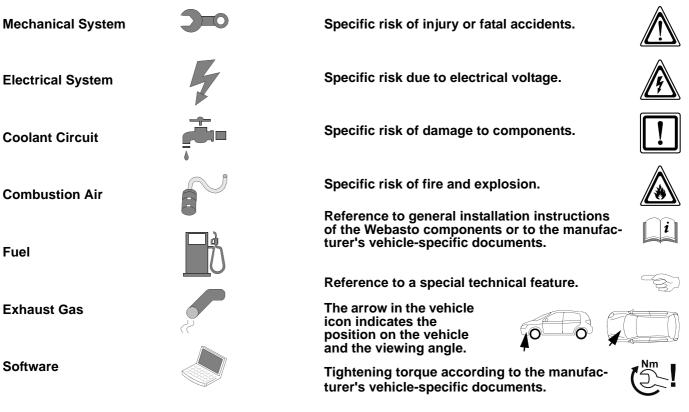
• All dimensions are in mm.

#### **Tightening torque values**

- Tightening torque values of 5x13 heater bolts and 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-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.



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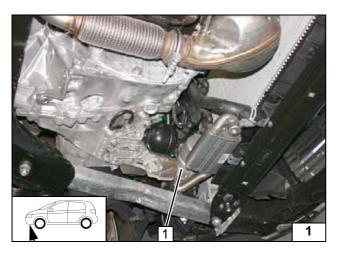
### **Preliminary Work**

#### Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect the battery.
- Completely remove the battery together with the carrier.
- Remove the air intake hose (73/88 kW).
- Remove the bracket of the air intake hose (73/88 kW).
- Remove the lower and left instrument panel trim on the driver's side.
- Remove the knee airbag (if present).
- Remove the underride protection.
- Lower the fuel tank in accordance with the manufacturer's instructions (73/88 kW).
- Detach the front section of the left front wheel well trim.
- Remove the rear left wheel and wheel well trim (73/88 kW).
- Remove the glove box.
- Remove the footwell trim on the driver's and front passenger's sides.

#### 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.

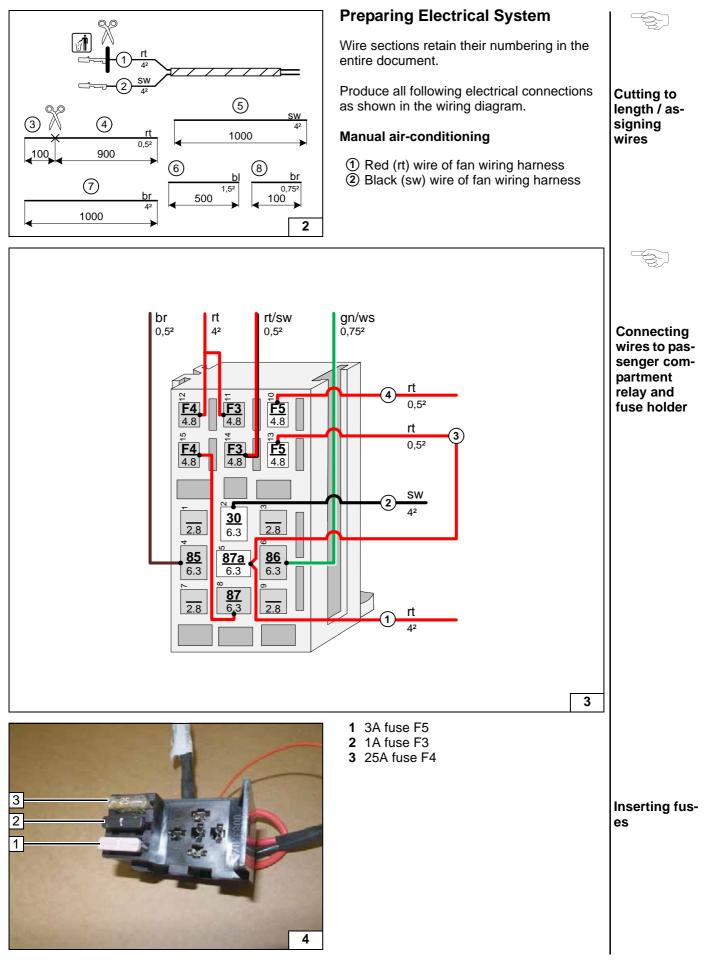


### **Heater Installation Location**

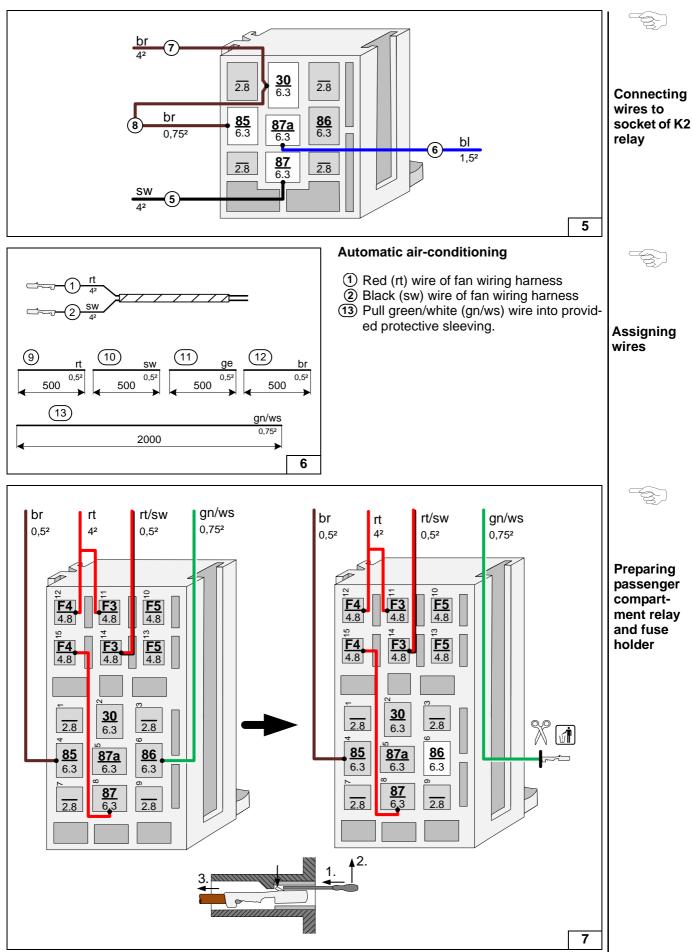
1 Heater

Installation location

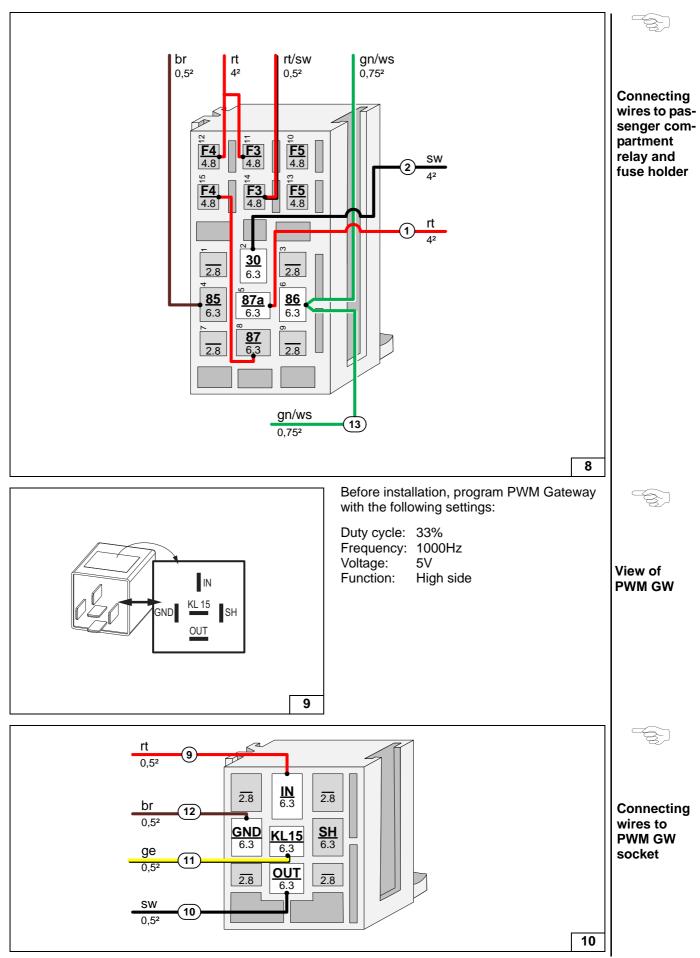




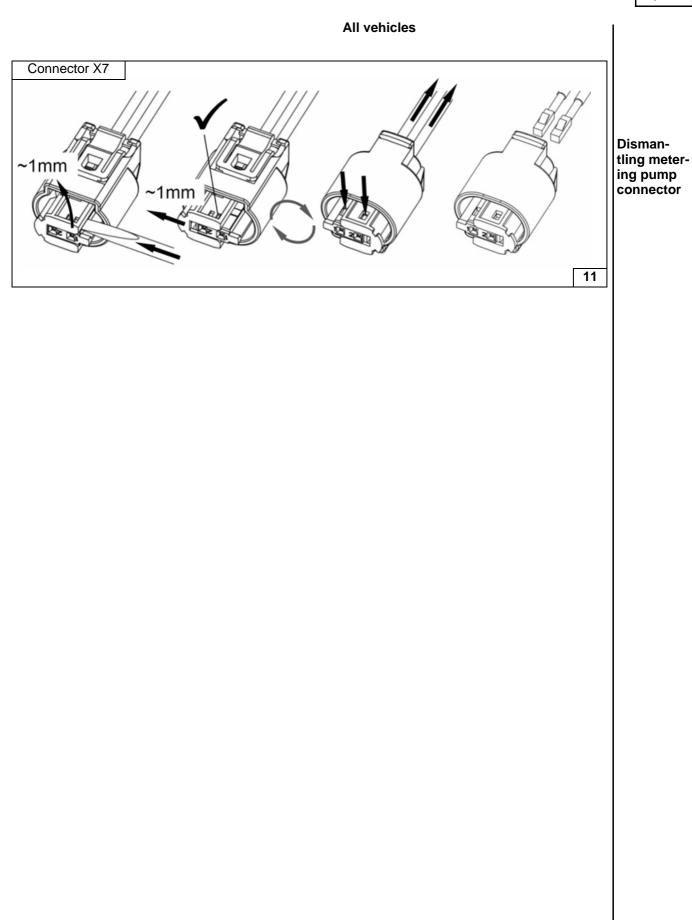














### **Electrical System**

#### Earth wire

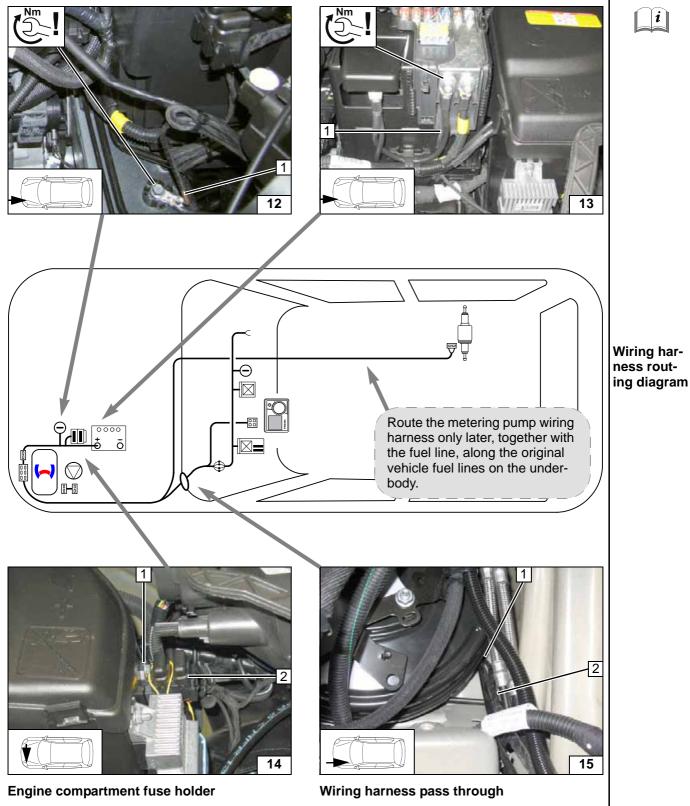
1 Earth wire on original vehicle earth support point

### Positive wire

1 Positive wire on positive distributor



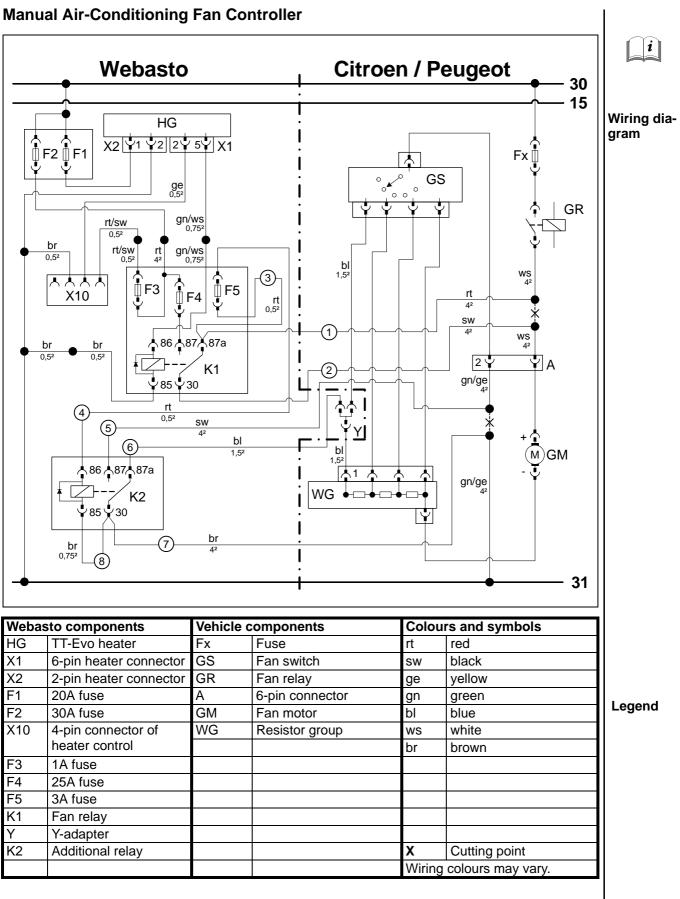




- 1 5.5 mm dia. hole; M5x16 bolt, washer [2x], retaining plate of fuse holder, nut
- 2 Fuses F1-2

- 1 Cable grommet of bonnet Bowden cable
- 2 Wiring harnesses of heater, heater controls



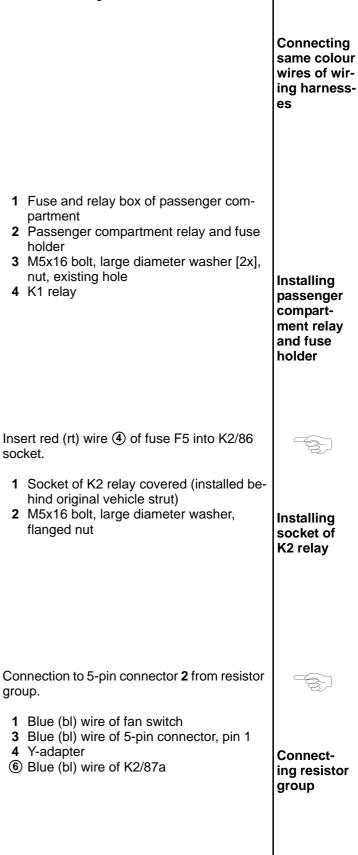


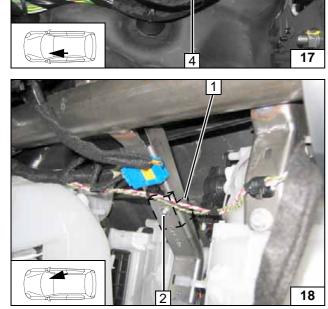


1 Heater wiring harness

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2 Passenger compartment relay and fuse holder wiring harness





socket.

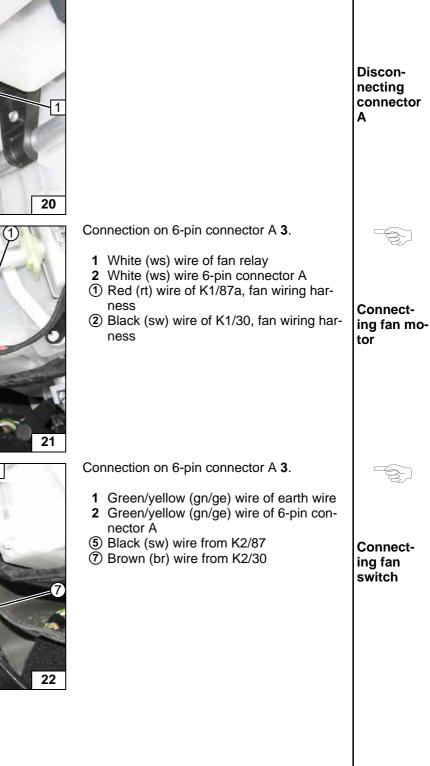
Connection to 5-pin connector 2 from resistor group.

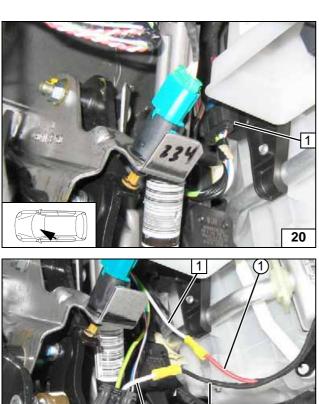
- 1 Blue (bl) wire of fan switch
- 4 Y-adapter
- 6 19

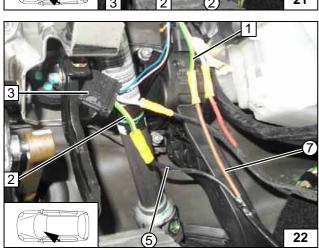
### **Citroen Berlingo / Peugeot Partner**







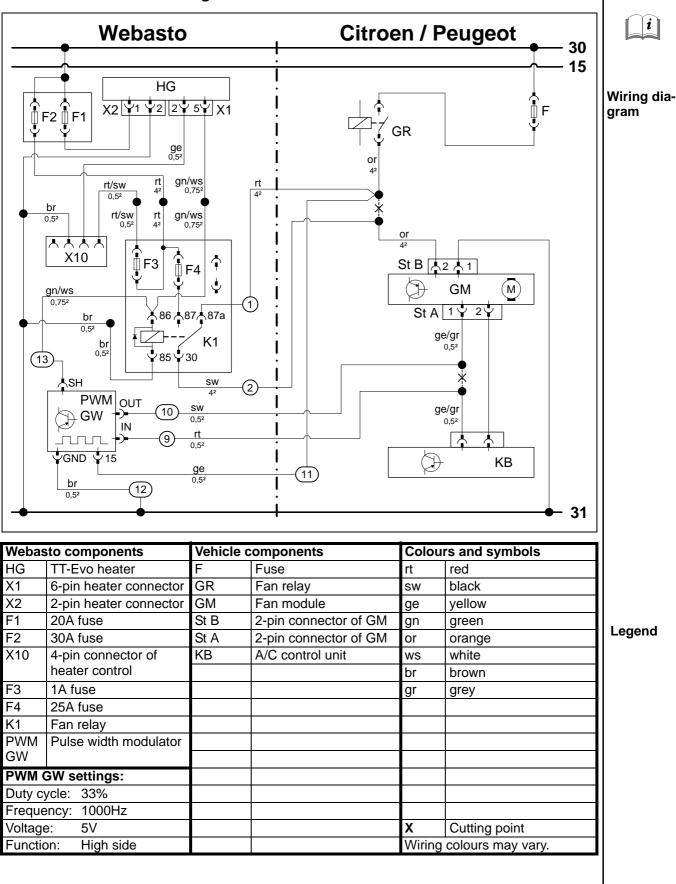




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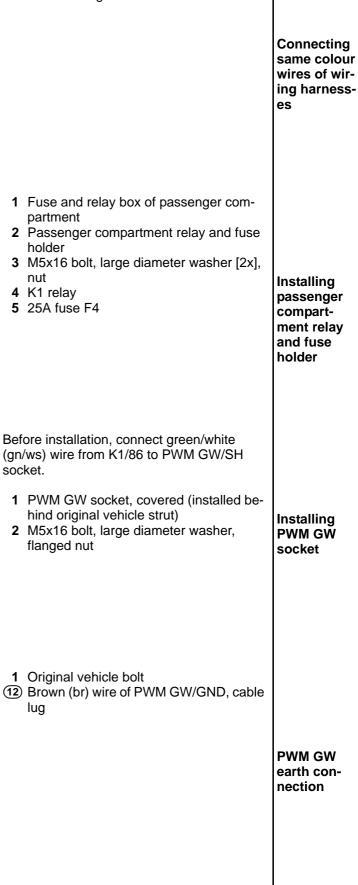


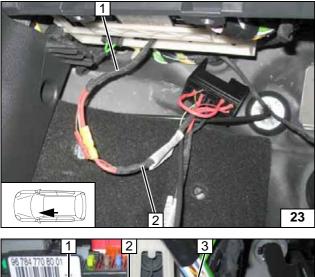
### Automatic Air-Conditioning Fan Controller

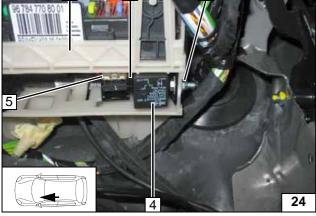


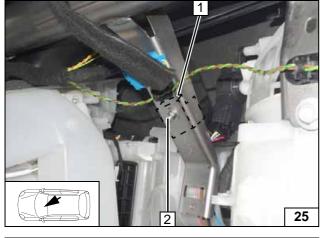


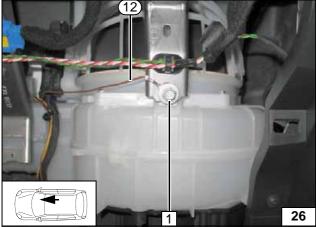
- **1** Heater wiring harness
- 2 Passenger compartment relay and fuse holder wiring harness



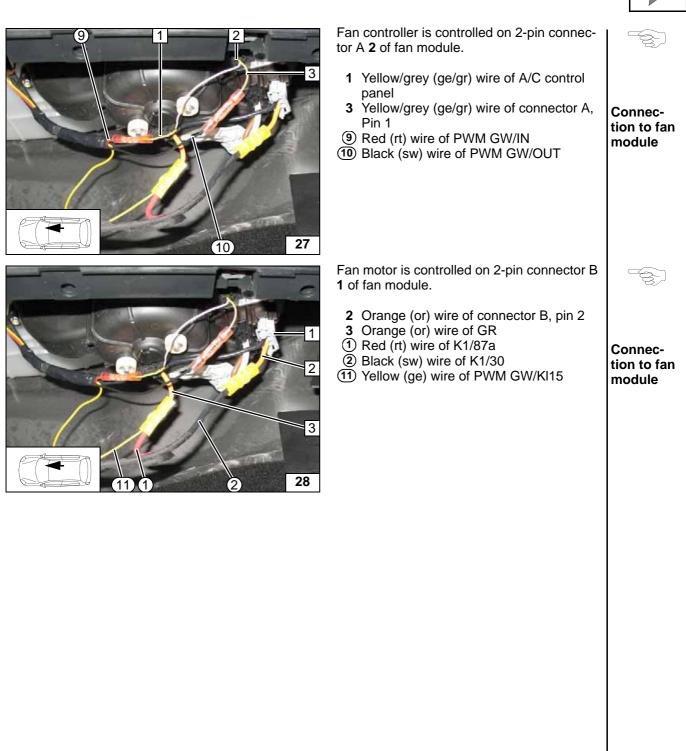










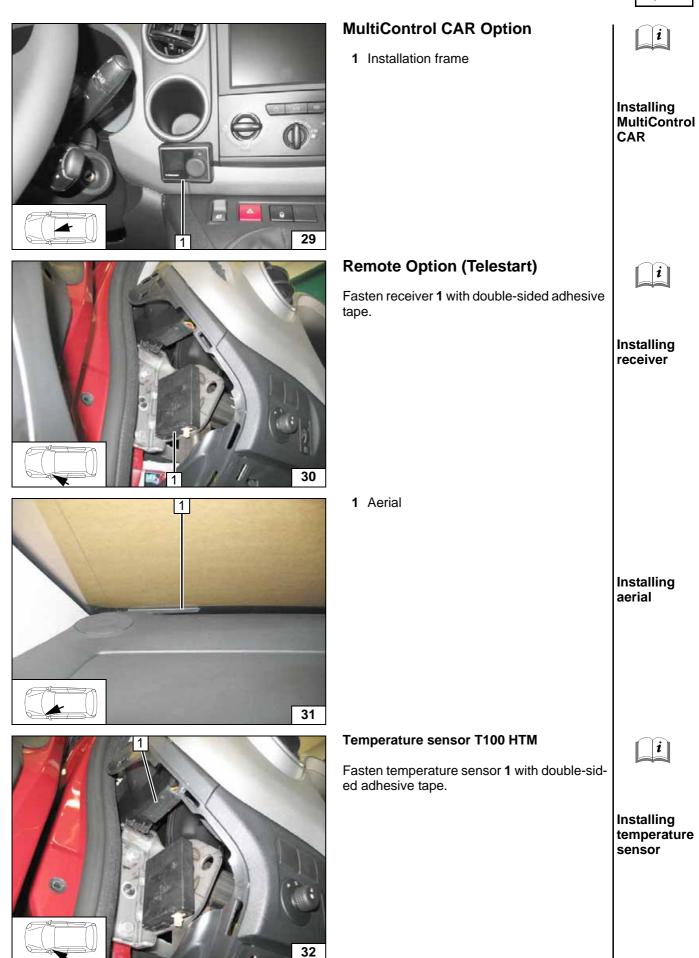




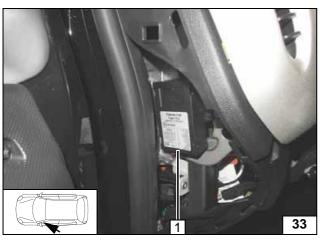
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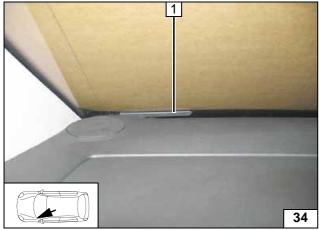
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### **ThermoCall Option**

Fasten receiver **1** with double-sided adhesive tape.



Installing receiver

1 Aerial (optional)

Installing aerial



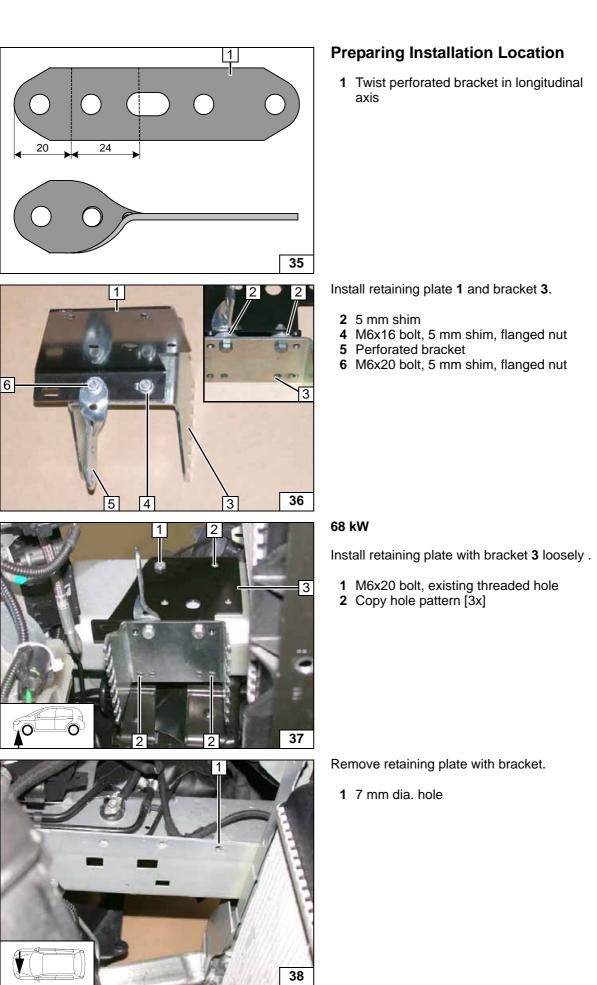
Preparing perforated

Premounting bracket

Copying hole pattern

Hole in frame side member

bracket



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1

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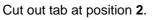
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- 1 7 mm dia. hole
- 2 9.1mm dia. hole; rivet nut [2x each]

Hole in frame side member, installing rivet nut



1 Bracket of air-intake pipe 3 12 mm dia. hole



Preparing bracket of air intake pipe

Installing bracket

Installing bracket of air-intake pipe

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- Retaining plate with bracket
   M6x20 bolt, flanged nut

- 1 Bracket of air-intake pipe
- 2 Original vehicle bolt

(O

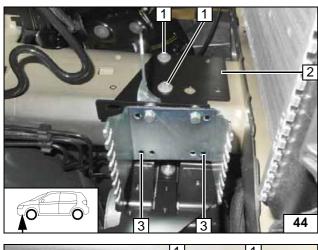
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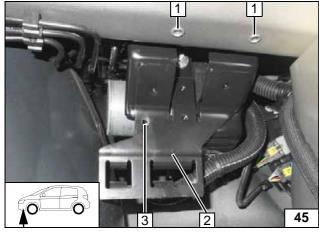


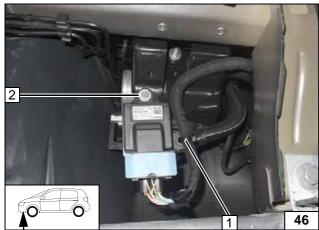
1 Bracket

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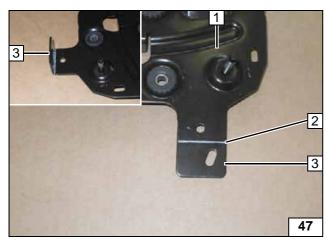
	) mm shim [2x]	
		Installing bracket
73 / 88 kW		
	al vehicle relay. g plate with bracket <b>2</b> loosely .	
<ol> <li>Original ve</li> <li>Copy hole</li> </ol>	chicle bolt in existing hole [2x] pattern [2x]	Copying hole pattern
Remove retain	ing plate with bracket.	
2 ABS carrie	-	
3 Drill out ex	isting hole to 7mm dia.	Hole in frame side member / ABS carrier,
		inserting riv- et nut
Secure original cable tie at pos	I vehicle wiring harness with sition <b>1</b> .	
	20 bolt, large diameter wash- nut loosely	
		Installing original vehi- cle relay



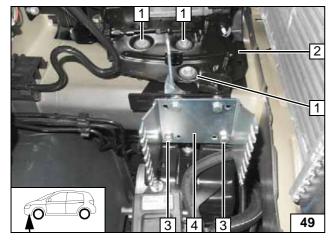


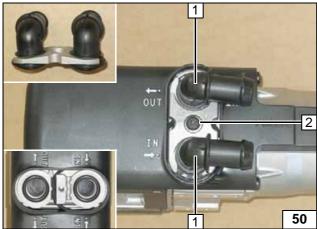












Bend tab **3** of original vehicle bracket **1** by  $90^{\circ}$  upwards at bending line **2**.

Preparing original vehicle bracket

Preparing original vehicle brack-

et

Bend tab **1** as shown.

- 1 Original vehicle bolts [3x]
- 2 Original vehicle bracket
- **3** M6x35 bolt, spring lockwasher, 20mm shim [2x each]
- 4 Bracket

### **Preparing Heater**

### All vehicles

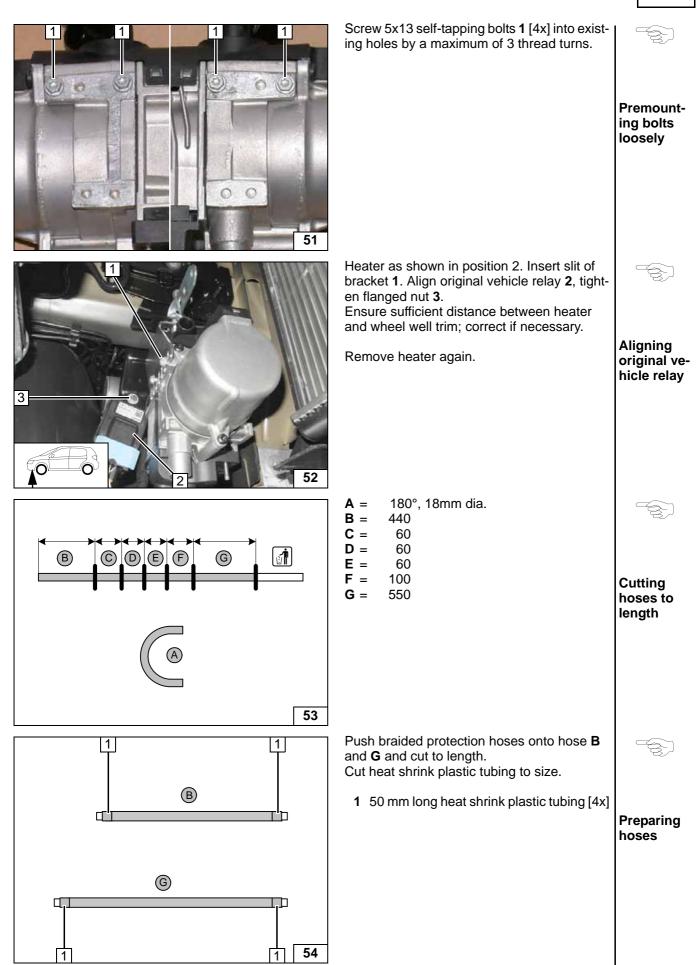
- 1 Water connection piece, sealing ring [2x each]
- **2** 5x15 self-tapping bolt, retaining plate of water connection piece

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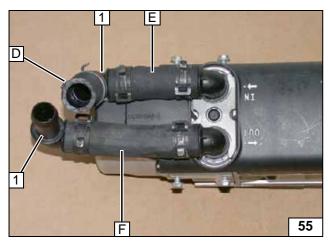
Installing bracket

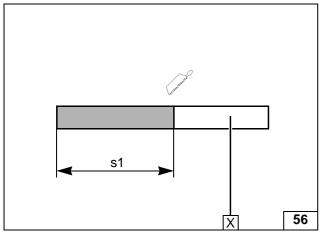
Installing water connection piece

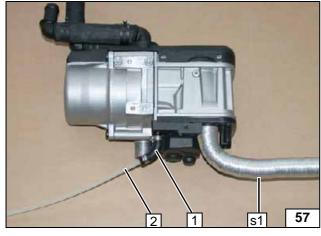


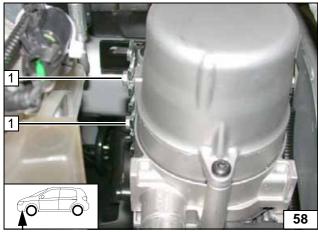






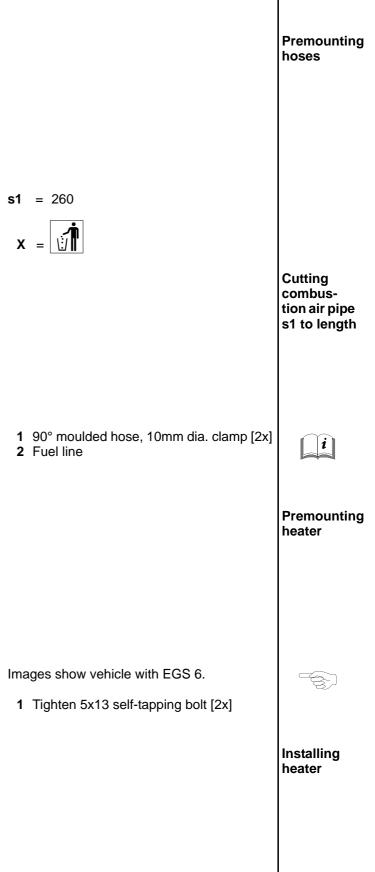




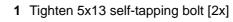


All spring clips = 25mm dia.!

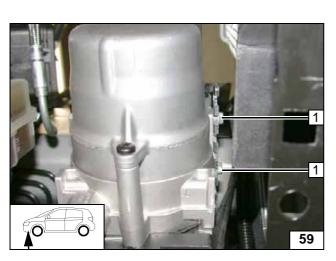
1 90°, 18x18 connecting pipe



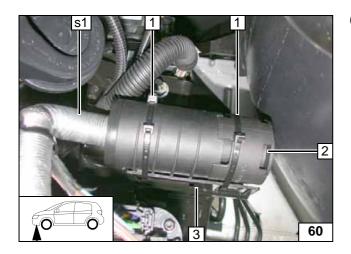




Installing heater







## **Combustion Air**

- 1 Cable tie [2x]2 Silencer
- 3 ABS bracket



Installing silencer

### Fuel

#### **CAUTION!**

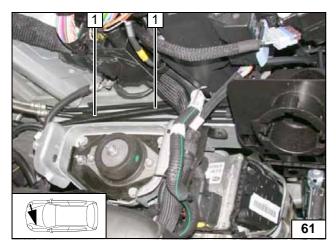
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

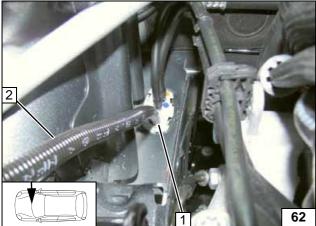
Catch any fuel running off in an appropriate container.

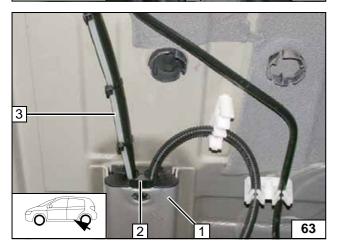
Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

#### WARNING!

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







Route fuel line and wiring harness of metering pump into 2100mm corrugated tube **1** to the firewall.



Routing lines

Route fuel line and wiring harness of meter-
ing pump in original vehicle line duct to the
underbody.

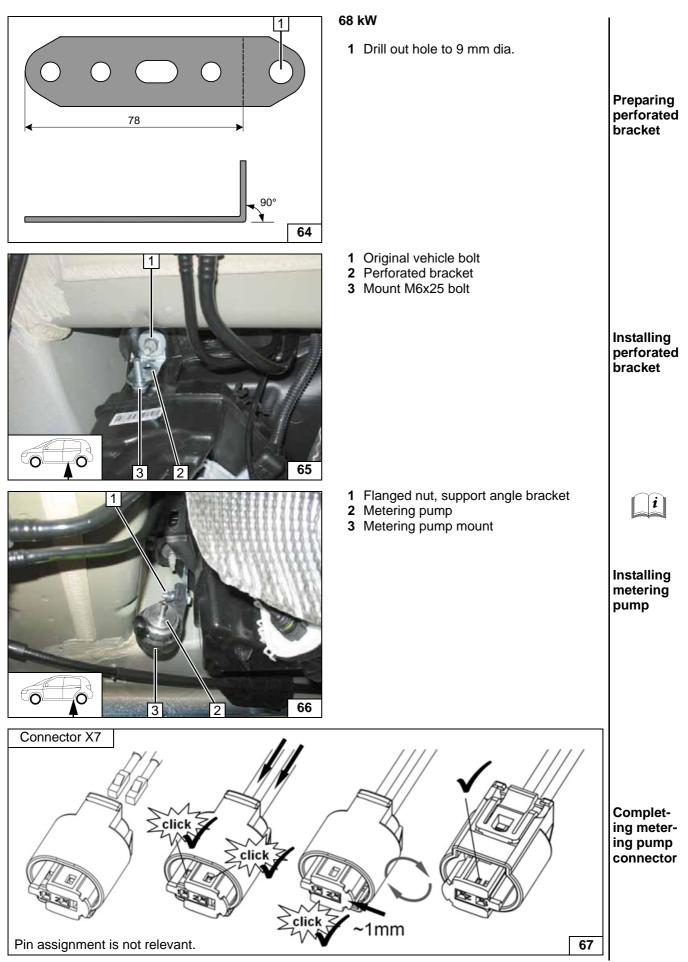
- **1** Original vehicle pass through
- 2 Fuel line and wiring harness of metering pump in corrugated tube Routing lines

- 1 Original vehicle line duct
- 2 Original vehicle sealing
- **3** Fuel line, wiring harness of metering pump

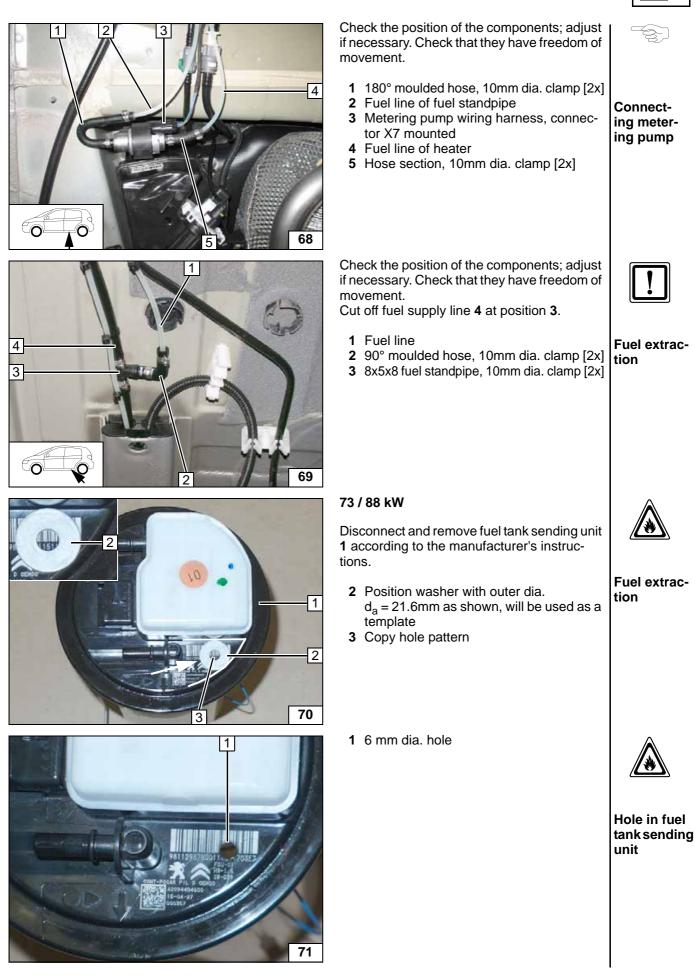
Routing lines



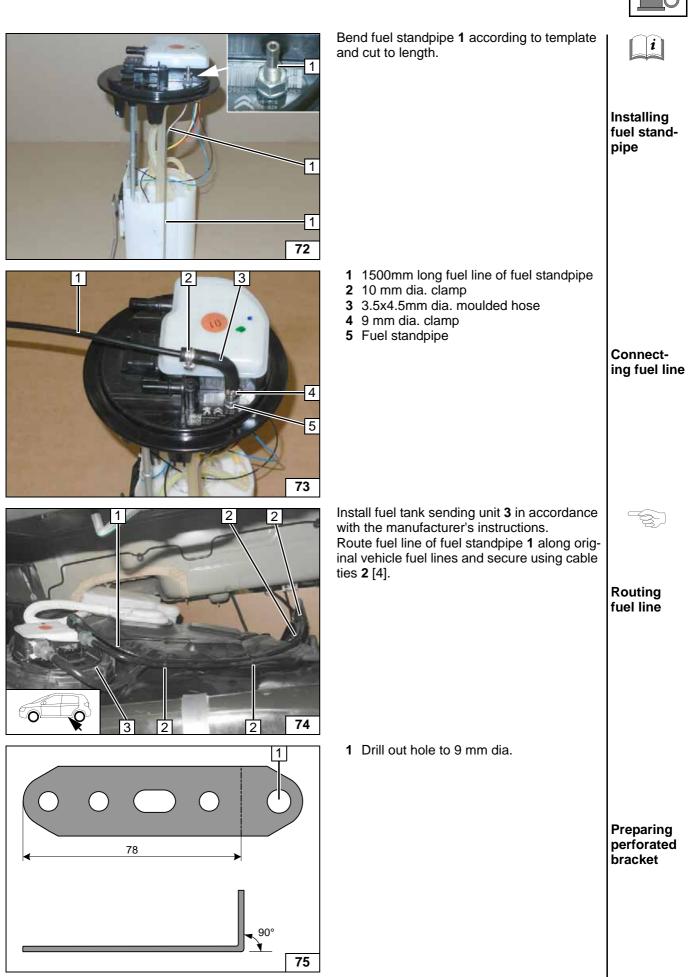






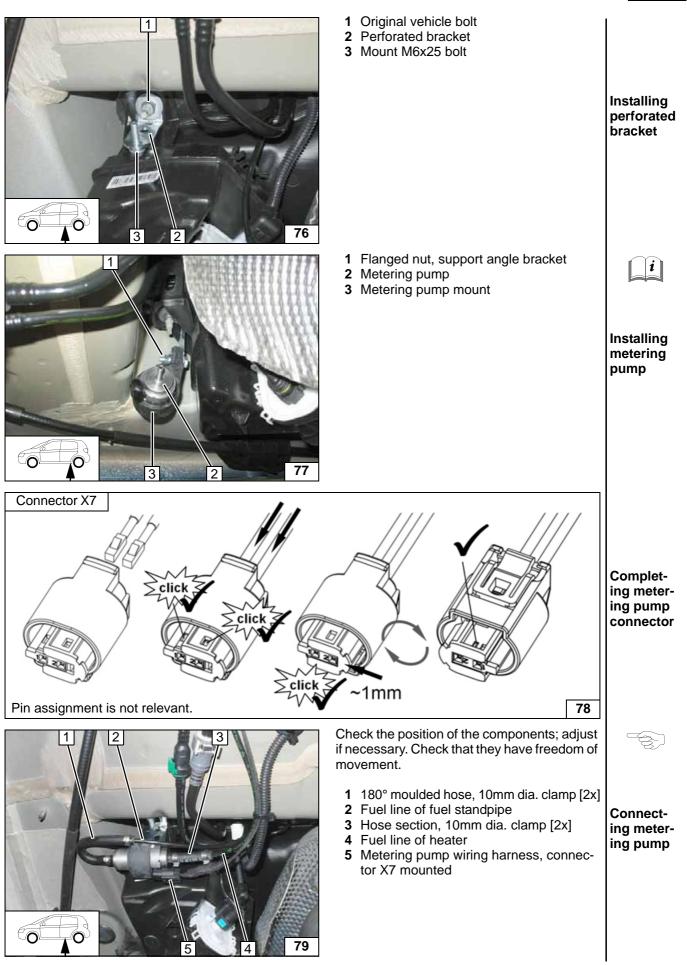






### **Citroen Berlingo / Peugeot Partner**





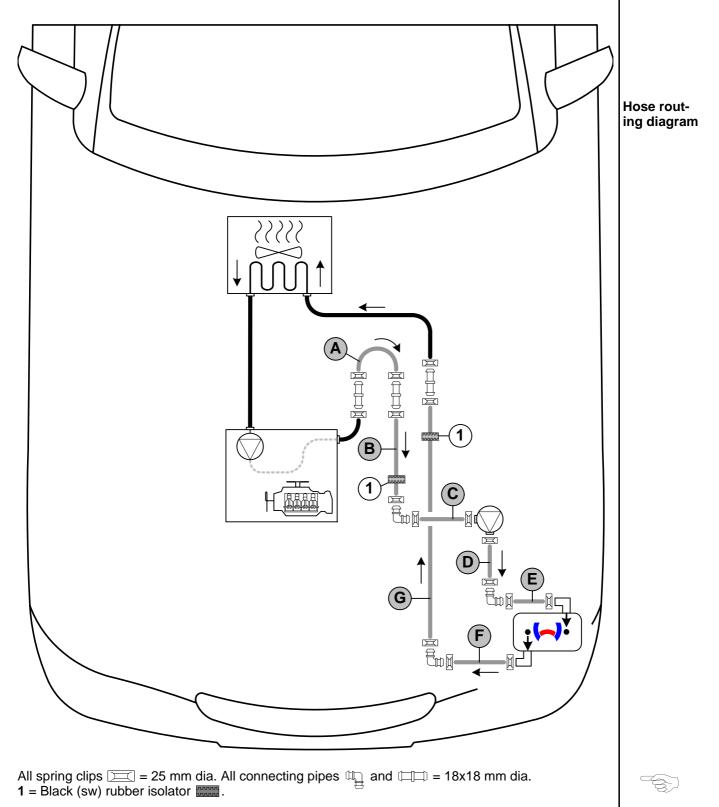


### **Coolant Circuit**

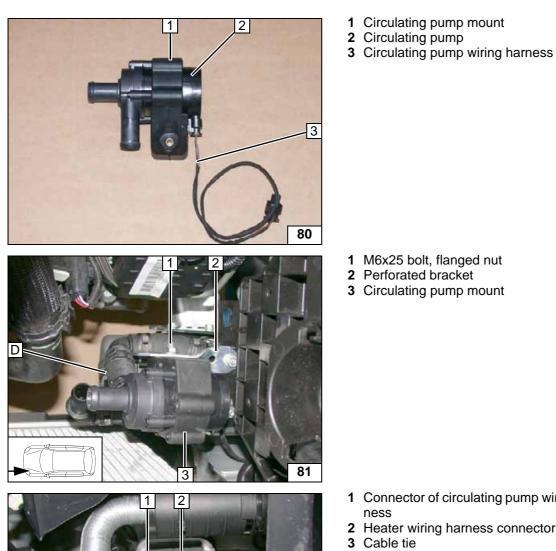
#### WARNING!

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. The heater must be filled with coolant when installing the hoses.

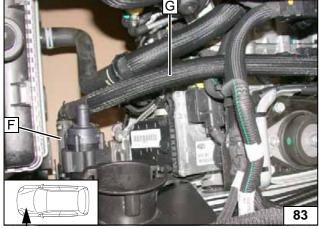
The connection should be modelled on an 'inline' circuit and based on the following diagram:

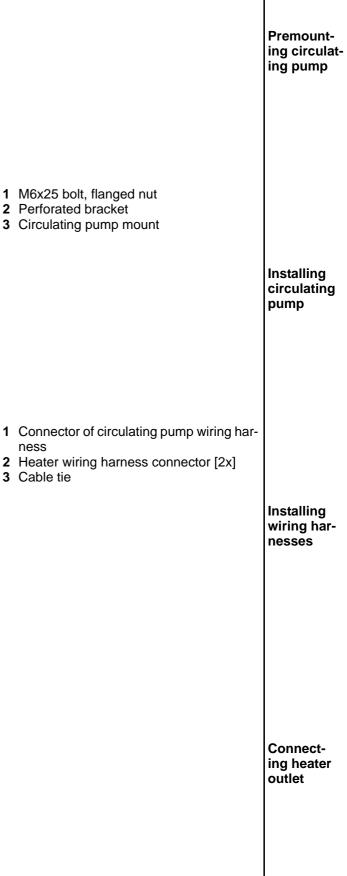






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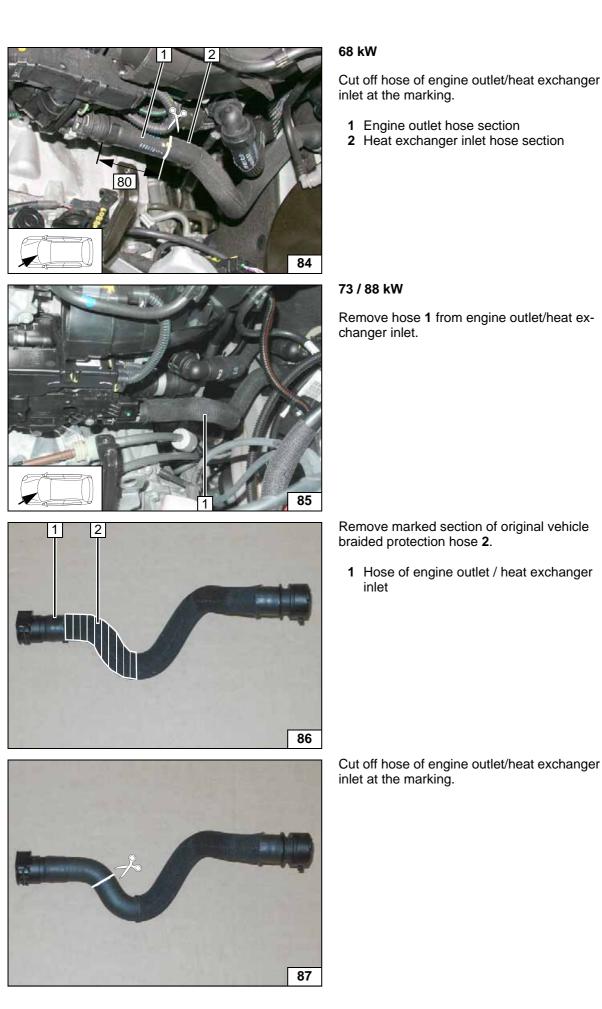


Cutting point

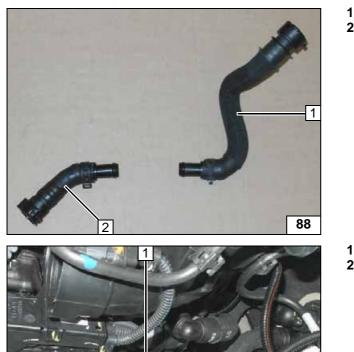
Cutting point

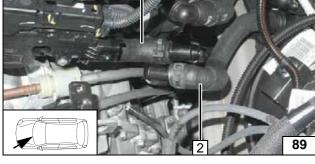
Removing original vehicle braided protection hose

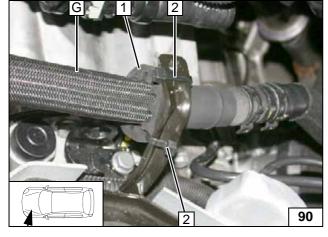
**Cutting point** 







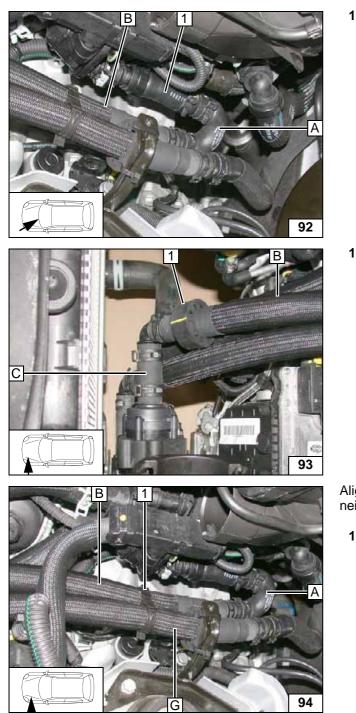






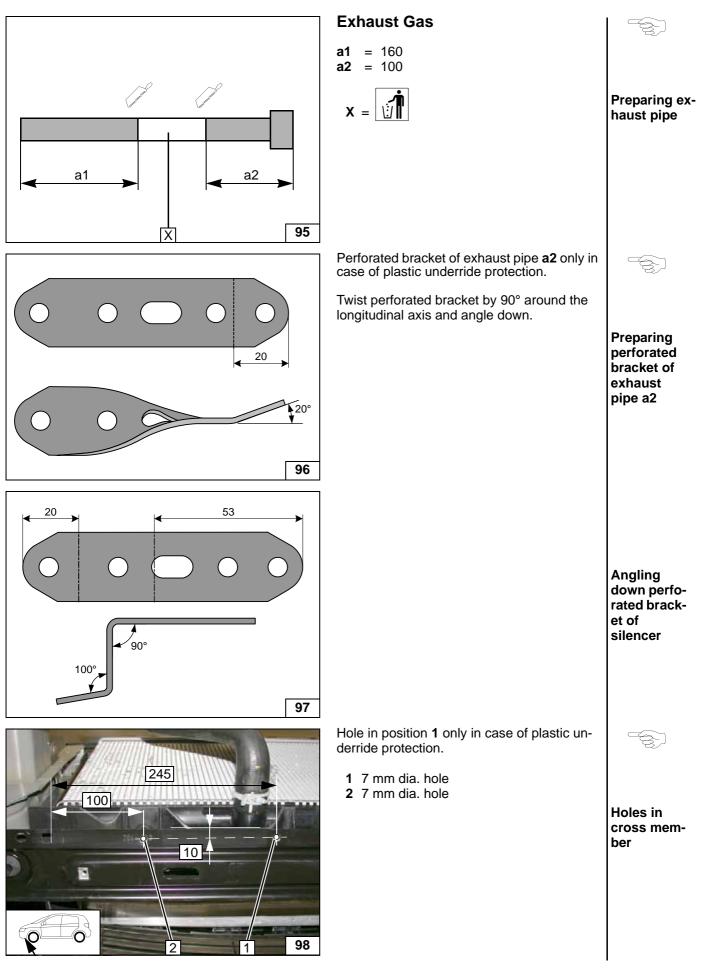
	•
<ol> <li>Heat exchanger inlet hose section</li> <li>Engine outlet hose section</li> </ol>	
<ol> <li>Engine outlet hose section</li> <li>Heat exchanger inlet hose section</li> </ol>	Premounting hose sections
	Installing hose sec- tions
All vehicles	
Figure shows 68 kW.	
<ol> <li>Slide on black (sw) rubber isolator and align</li> <li>Cable tie [2x]</li> </ol>	Routing in engine compart- ment
1 Heat exchanger inlet hose section	
	Connect- ing heat ex- changer inlet

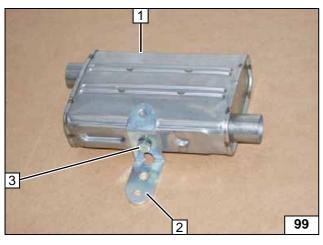


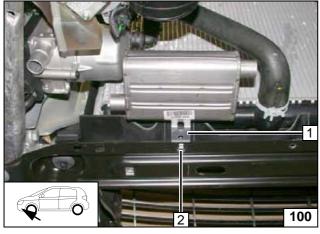


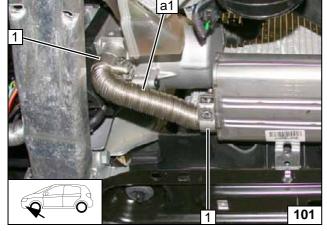
Engine outlet hose section	
	Connect- ing engine outlet
Slide on black (sw) rubber isolator and align	
	Connect- ing circulat- ing pump
ghbouring components.	
Hose bracket	Installing hose brack- et
	Engine outlet hose section Slide on black (sw) rubber isolator and align n hoses. Ensure sufficient distance from phouring components. Hose bracket

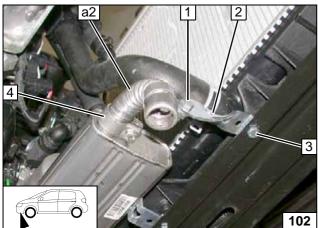




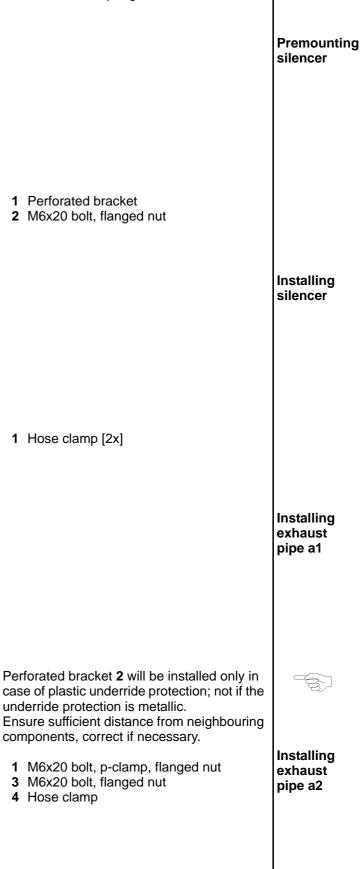








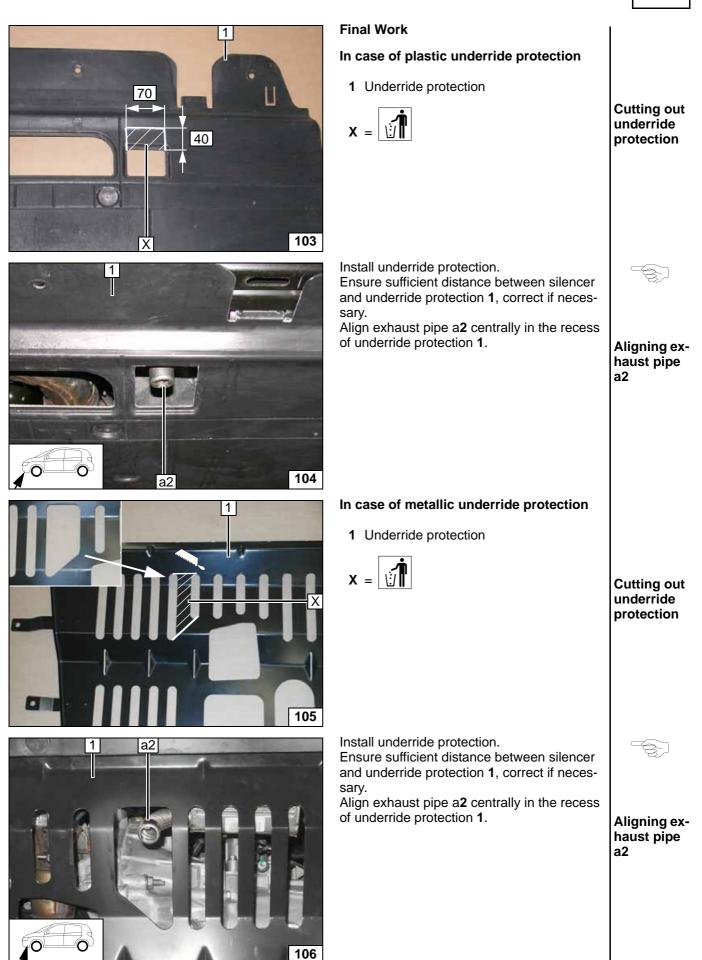
- 1 Silencer
- 2 Perforated bracket
- 3 M6x16 bolt, spring lockwasher





Status: 19.01.2016





### **Final Work**

#### WARNING!

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 specifications.
- Program MultiControl CAR, 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' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.



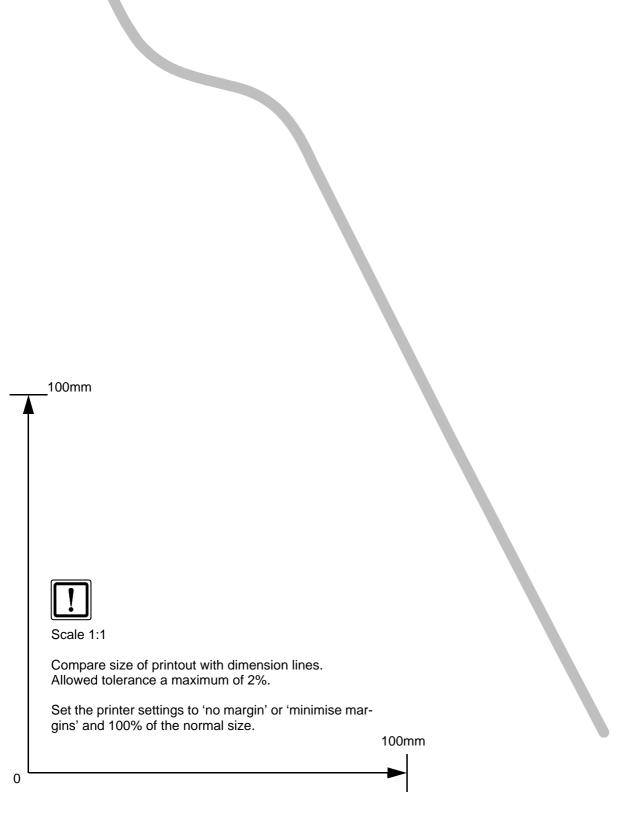




Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



### **Fuel Standpipe Template**





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A/C control panel

### Operation of Manual A/C for Citroen

Please remove page and add to the vehicle operating instructions.

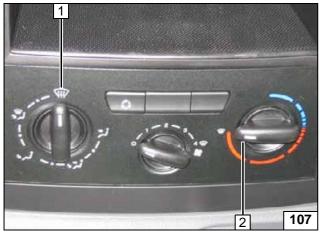
#### Note:

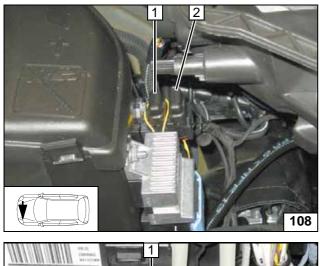
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

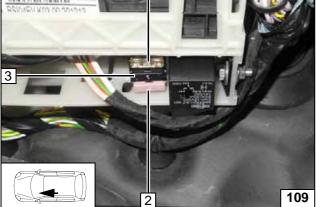
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







- 1 Air outlet to windscreen
- 2 Set temperature to 'max.'

- 1 30A main fuse F2 of passenger compart-
- ment 2 20A heater fuse F1

Engine compartment fuses

- 1 25A fan fuse F4
- **2** 3A fan fuse F5
- 3 1A fuse F3 of heater control

Passenger compartment fuses



-2)

### Operation of Automatic A/C for Citroen

Please remove page and add to the vehicle operating instructions.

#### Note:

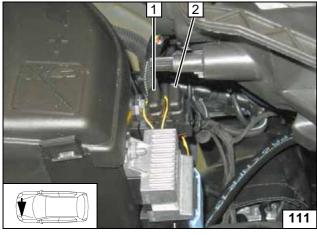
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

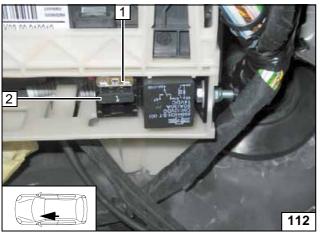
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







g time. ve recommend not exceeding a switch-on time e deactivated in addition to the vehicle settings	i
rating instructions of the vehicle. No specific settings necessary.	
	A/C control panel
<ol> <li>30A main fuse F2 of passenger compartment</li> <li>20A heater fuse F1</li> </ol>	Engine com- partment fus- es
<ol> <li>25A fan fuse F4</li> <li>1A fuse F3 of heater control</li> </ol>	Passenger compartment fuses



### **Operation of Manual A/C for Peugeot**

Please remove page and add to the vehicle operating instructions.

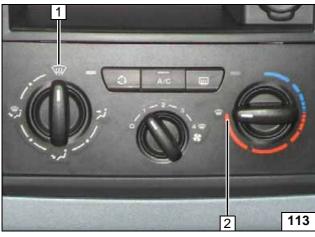
#### Note:

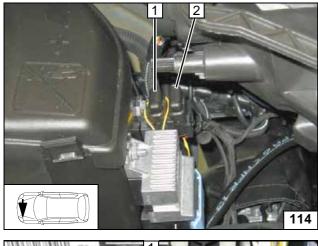
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

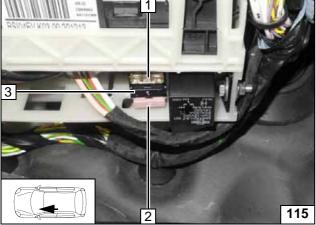
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

Before parking the vehicle, make the following settings:







i **1** Air outlet to windscreen 2 Set temperature to 'max.' A/C control panel 1 30A main fuse F2 of passenger compartment 2 20A heater fuse F1 Engine compartment fuses 1 25A fan fuse F4 2 3A fan fuse F5 3 1A fuse F3 of heater control Passenger compartment fuses



i

A/C control panel

### **Operation of Automatic A/C for Peugeot**

Please remove page and add to the vehicle operating instructions.

#### Note:

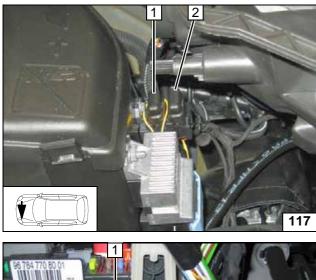
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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:







No specific settings necessary.

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

Engine compartment fuses

1 25A fan fuse F4

2 1A fuse F3 of heater control

Passenger compartment fuses