

Water Heater

Thermo Top Evo Parking Heater



Installation Documentation

Peugeot 3008 / 5008

Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Peugeot	3008	0U	e1 * 2001 / 116 * 0377 * ...
Peugeot	5008	0	e2 * 2007 / 46 * 0004 * ...

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
1.6 HDI	Diesel	SG	82	1560	9HR

SG = Manual transmission

From Model Year 2011
Left-hand drive vehicle

Verified equipment variants: Manual / automatic air-conditioning system
 Front fog light
 Headlight washer system
 BI-Xenon

Not verified: Passenger compartment monitoring

Total installation time: approx. 10.5 hours for Peugeot 3008
 approx. 14 hours for Peugeot 5008

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Necessary Components

- Basic delivery scope *Thermo Top Evo* in accordance with price list
- Installation kit for Peugeot 3008 / 5008 2011 1.6 Diesel: **1318132B**
- 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

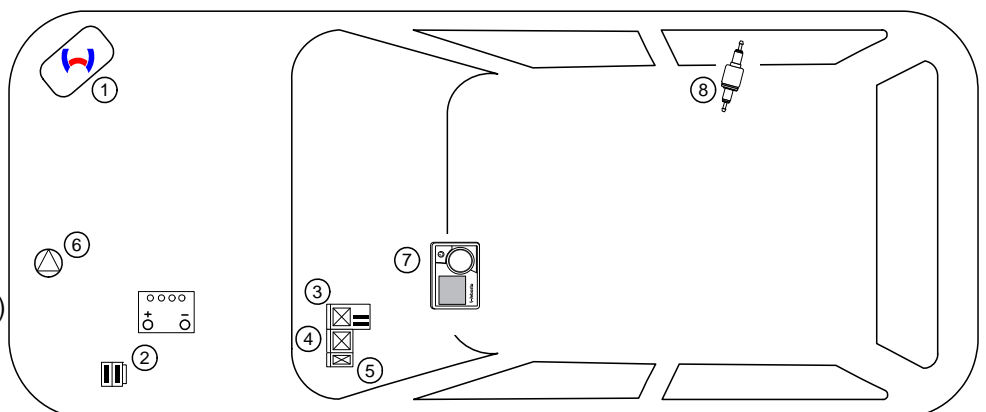
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about ¼ full!
- The installation location of the push button in the case of Telestart or Thermo Call should be confirmed with the end customer.
- Depending on the available space and manufacturer's instructions, we recommend the use of a vehicle battery with more electrical capacity.

Installation Overview

Legend:

1. Heater
2. Engine compartment fuse holder
3. Relay and fuse holder of passenger compartment
4. PWM GW
5. K2 relay (only with automatic A/C)
6. Circulating pump
7. MultiControl CAR
8. Metering pump



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 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, Order No. 111329).

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

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

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

2 Statutory regulations governing installation

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

Note

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

Important

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

Note

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

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

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

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

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.

2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.

2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.

2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.

2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.

2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.

2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.

2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

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

2.5. Combustion air inlet

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

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

2.6. Heating air inlet

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

2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.

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

End of excerpt.

In multilingual versions the German language is binding.

Information on Validity

This installation documentation applies to Peugeot 3008 / 5008 1.6 Diesel vehicles - for validity, see page 1 - from model year 2011 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

Vehicle and engine types, equipment variants and other specifications not listed in this installation documentation have not been tested. However, installation according to this installation documentation may be possible.

Technical Information

Special tools

- Hose clamp pliers for 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
- Bleeding device K-01102 from PSA or Facon 935A or SNA DRZ 2000

Dimensions

- All dimensions are in mm













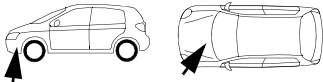


Tightening torque values

- 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-the-art-technology.

Explanatory Notes on Document

You will find an identification mark on the outside top right corner of the page in question to provide you with a quick overview of the individual working steps.

Special features are highlighted using the following symbols:

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

Peugeot 3008 / 5008

Preliminary Work

Vehicle

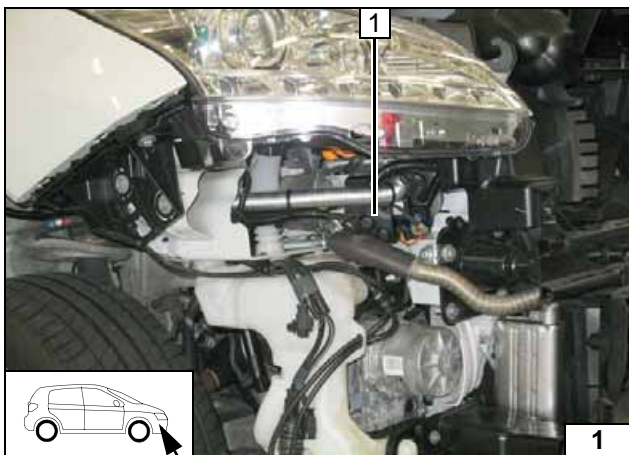
- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect the battery and remove it completely along with the carrier.
- Remove the underride protection (if present).
- Remove the right front wheel.
- Remove the front right and left wheel well trim.
- Remove the bumper trim.
- Remove the right headlight.
- Remove the washer reservoir.
- Remove the air filter housing.
- Detach the exhaust pipe from the DPF and take it out of the brackets (only in case of 5008).
- Detach the front section of the individual rear seat on the right (2x screwed), fold up the seat and secure (only in case of 3008).
- Remove the lower instrument panel trim on the driver's side.
- Remove the cover of the upper footwell trim on the driver's side.
- Remove the lateral trim of the instrument panel on the driver's side.
- Remove the lateral trim on the left of the central tunnel.

Only carry out the following tasks when the procedure requires it: (only in case of 5008):

- Remove the rear wheel on the left.
- Remove the rear wheel well trim on the left.
- Detach the lateral trims on the fuel tank.
- Detach the screw fitting of the filler neck on the fuel tank.
- Lower the fuel tank and support it with suitable means.

Heater

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



Heater Installation Location

Figure shows Peugeot 3008.

1 Heater



Installation location



Preparing Electrical System

Wire sections retain their numbering in the entire document.

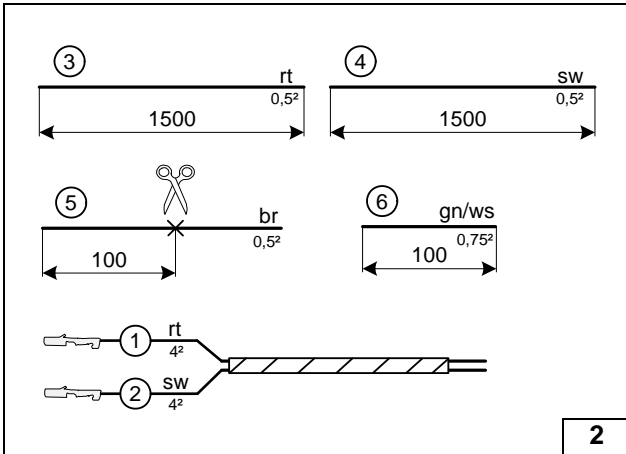
Produce all following electrical connections as shown in the wiring diagram.

Pull wires ③ and ④ into a protective sleeving.

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



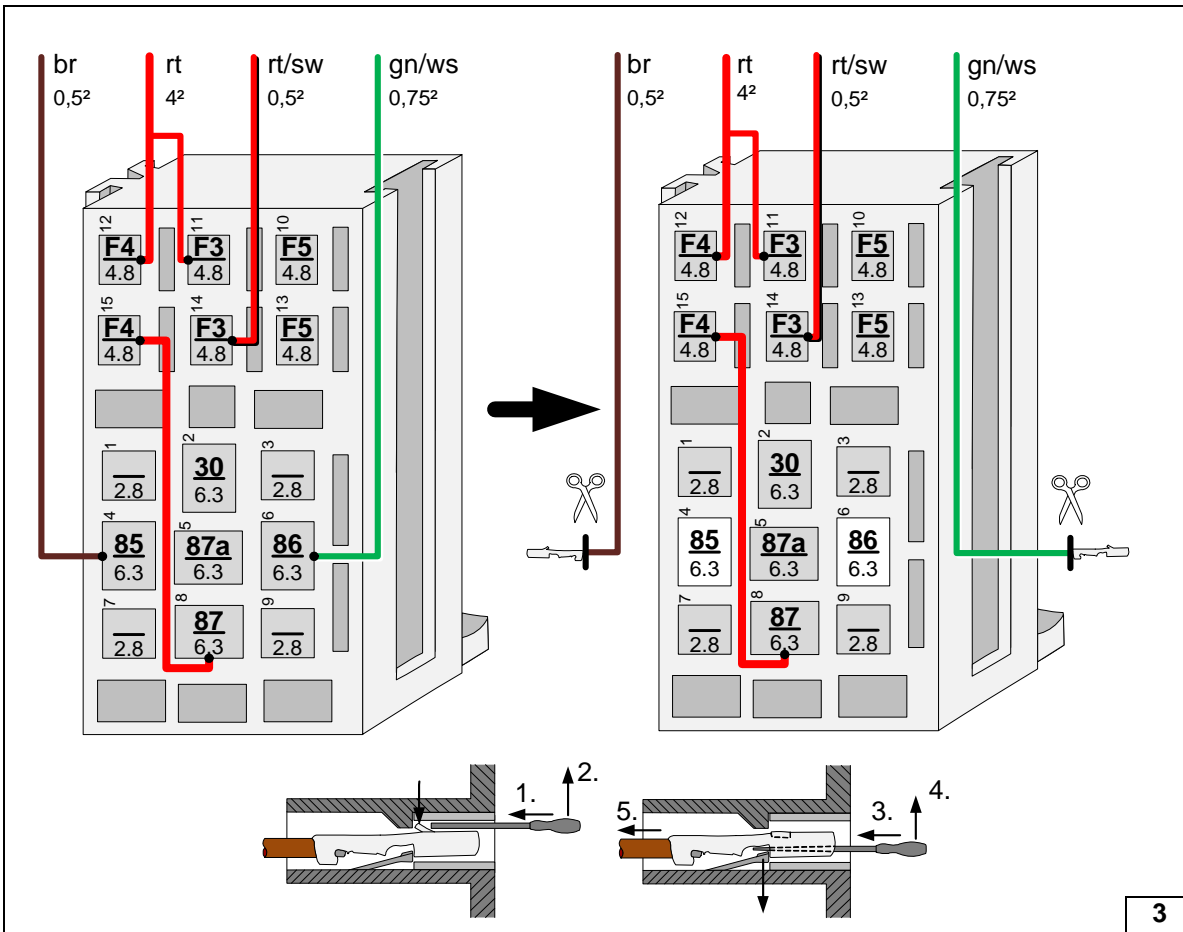
Cutting to length / assigning wires



2



Preparing passenger compartment relay and fuse holder



3

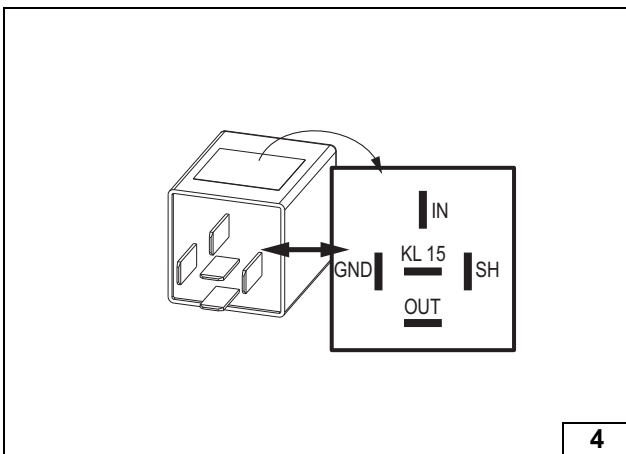


View of PWM-GW

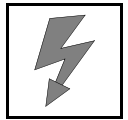
Check the PWM Gateway settings during start-up of the heater and adjust if necessary.

Settings:

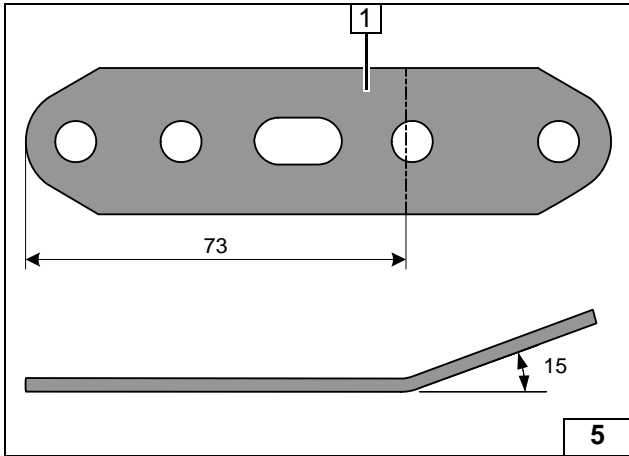
- Duty cycle: 100% (DC)
- Frequency: not relevant
- Voltage: 1.5V
- Function: High-side



4

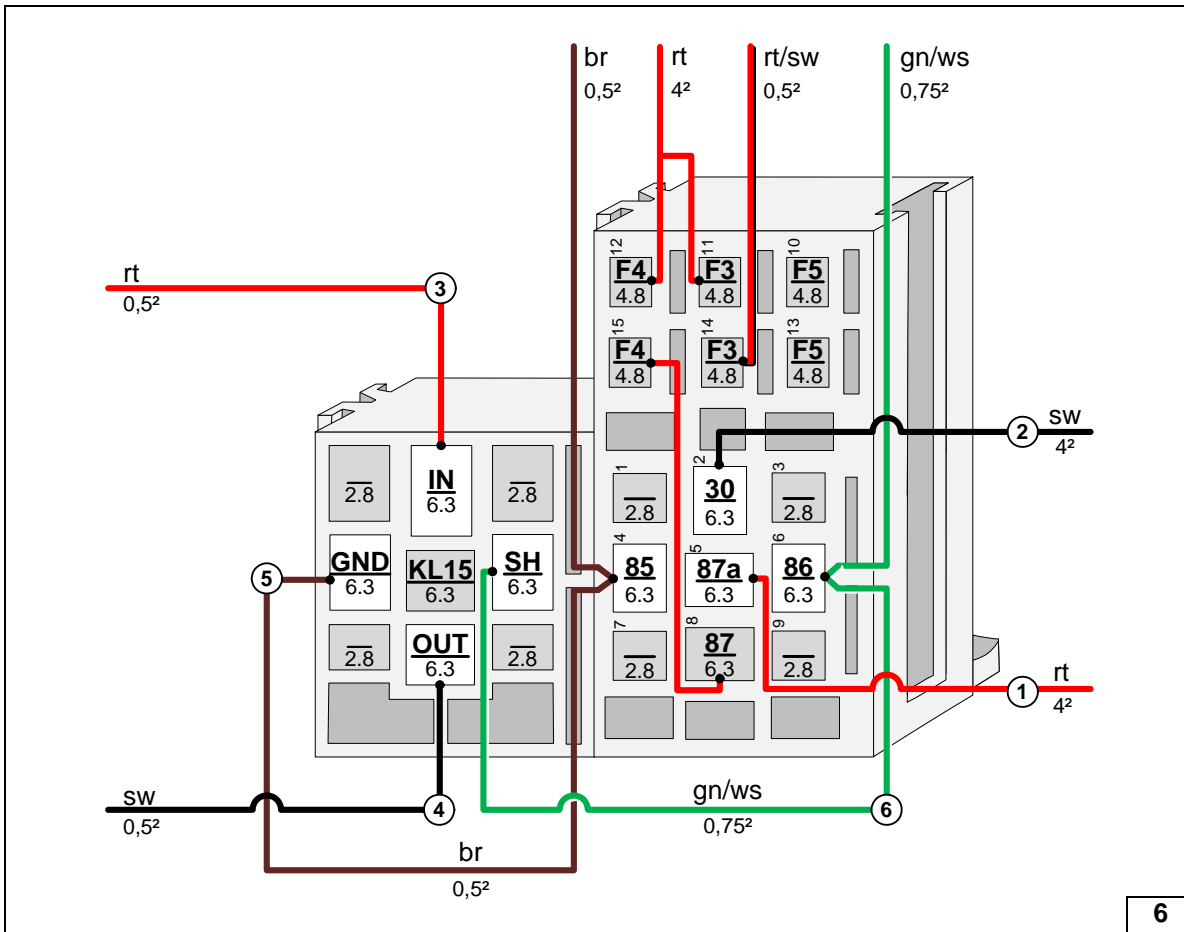


Manual air-conditioning

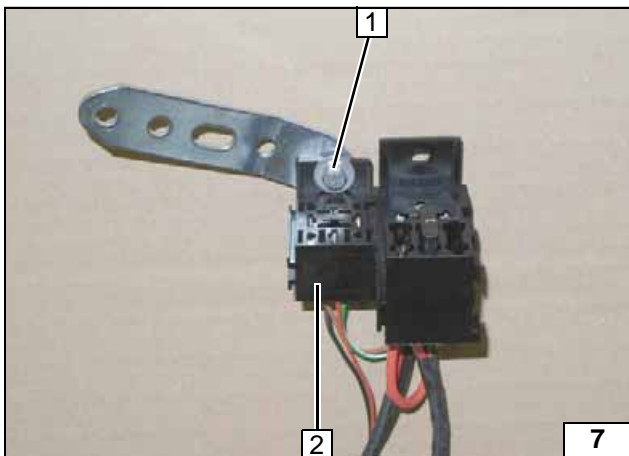


1 Perforated bracket

Bending perforated bracket



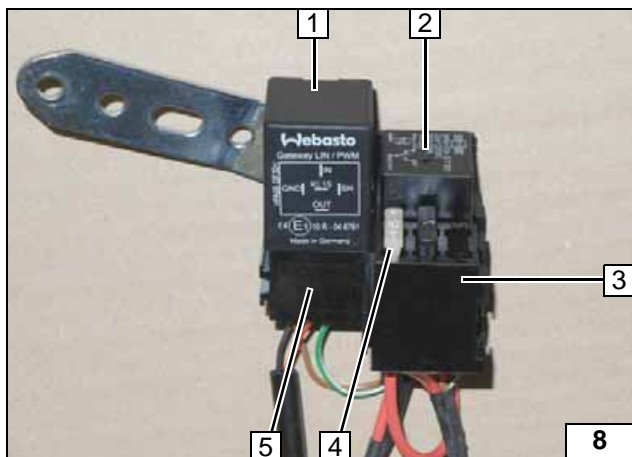
Connecting wires to PWM GW socket and passenger compartment relay and fuse holder, inter-connecting sockets



1 M5x16 bolt, large diameter washer, perforated bracket, large diameter washer, self-locking nut
2 PWM GW socket



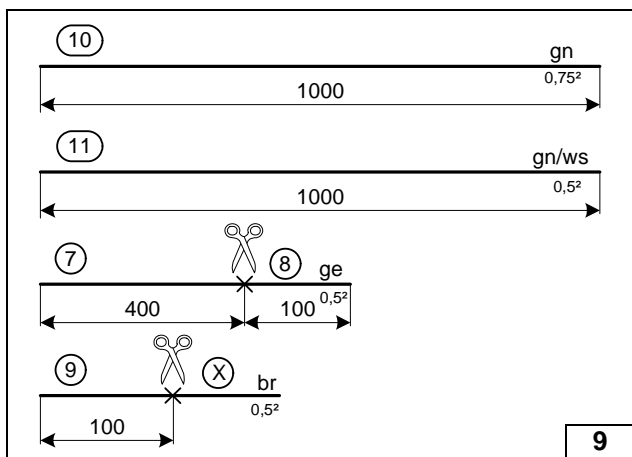
Installing perforated bracket



- 1 PWM GW
- 2 K1 relay
- 3 Relay and fuse holder of passenger compartment
- 4 25A fuse F4
- 5 PWM GW socket



Installing PWM GW, K1 relay and fuse F4



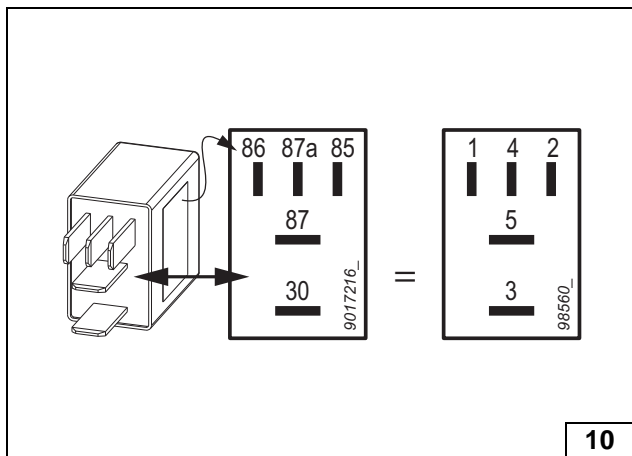
Automatic air-conditioning

Discard section X.

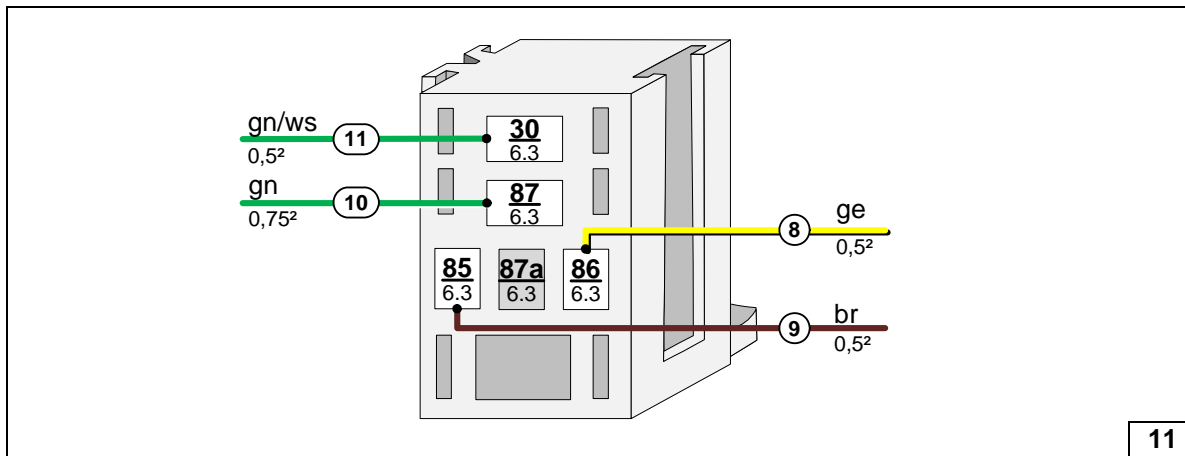
Pull wires ⑩ and ⑪ into a protective sleeving.



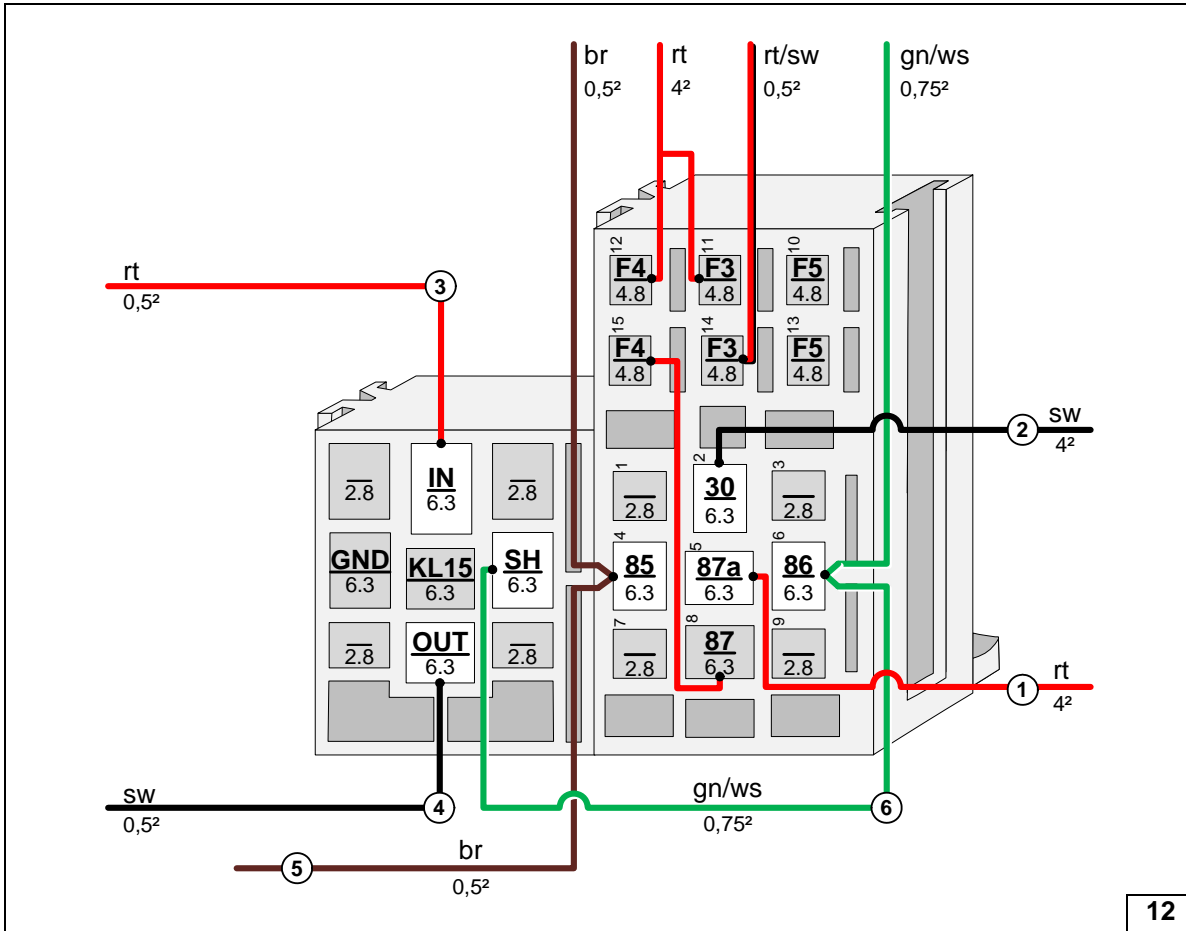
Cutting to length / assigning wires



View of K2 relay

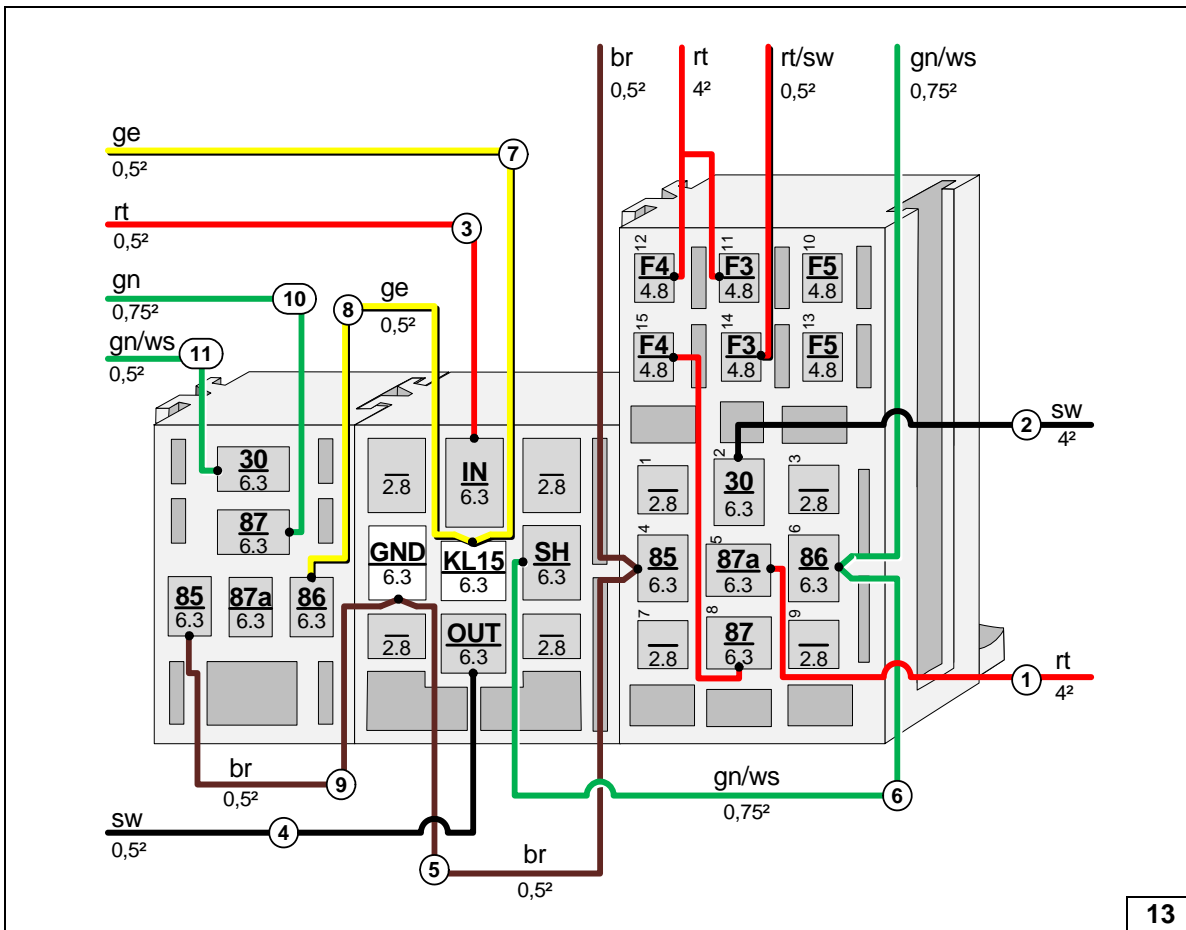


Connecting wires to socket of K2 relay



Connecting wires to PWM GW socket and passenger compartment relay and fuse holder, interconnecting sockets

12



Interconnecting sockets of PWM GW and K2 relay, connecting wires to socket of PWM GW

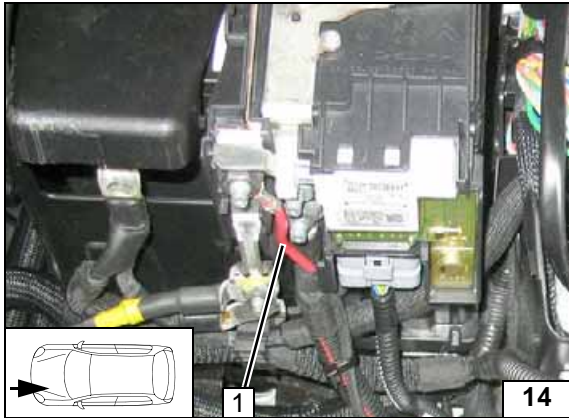
13



Electrical System

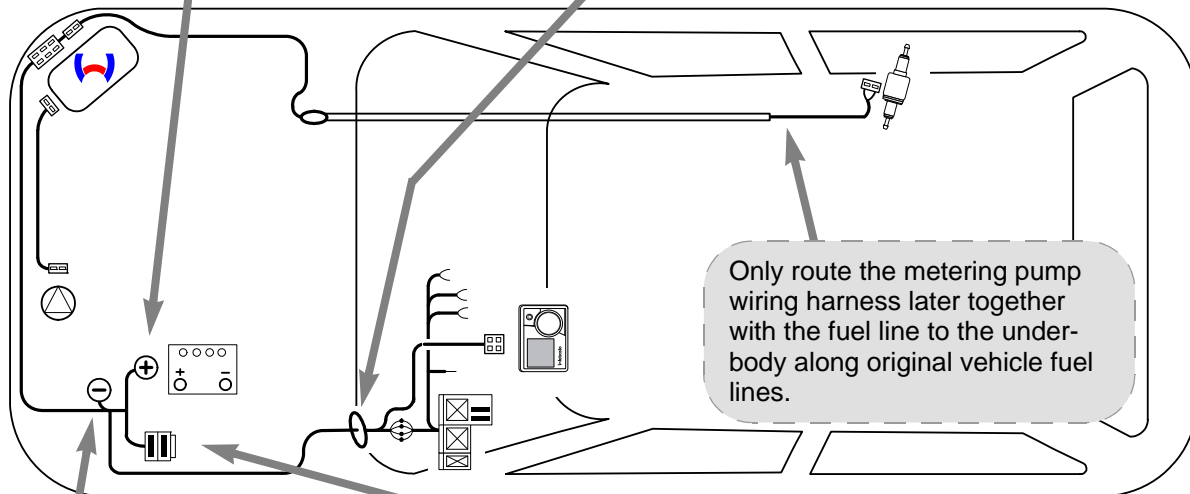
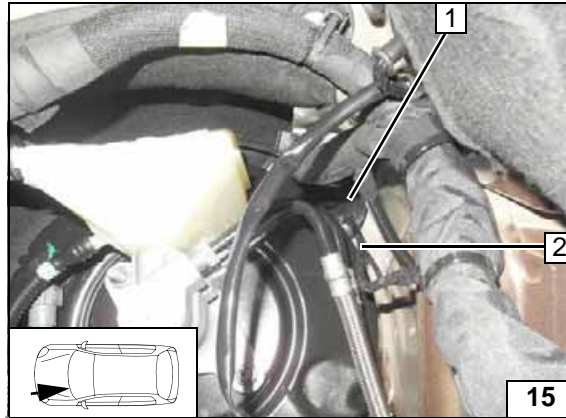
Positive wire

- 1 Positive wire on positive distributor of battery

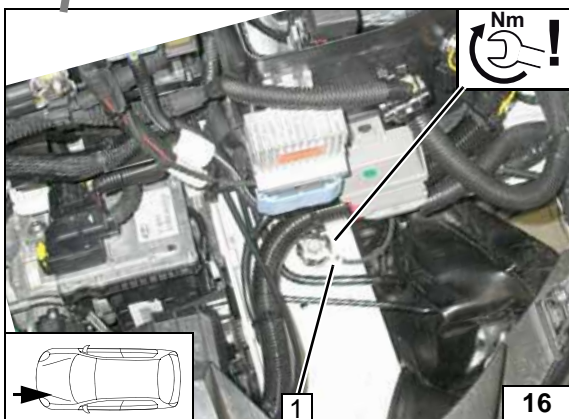


Wiring harness pass through

- 1 Existing protective rubber plug
- 2 Wiring harness of heater and heater control

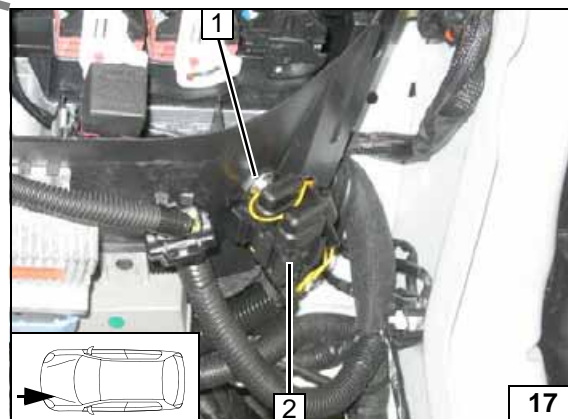


Wiring harness routing diagram



Earth wire

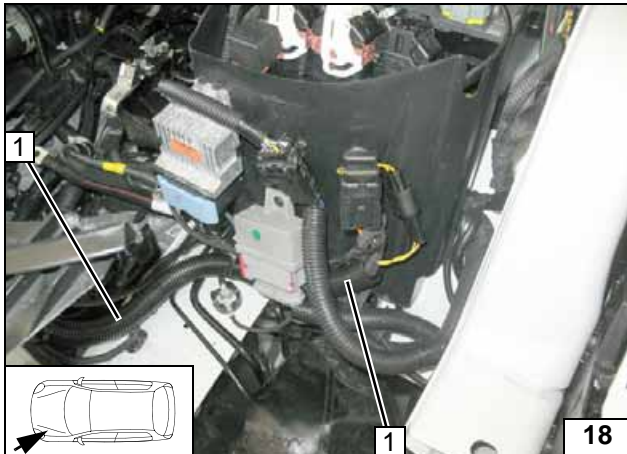
- 1 Earth wire on original vehicle earth support point



Fuse holder of engine compartment

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



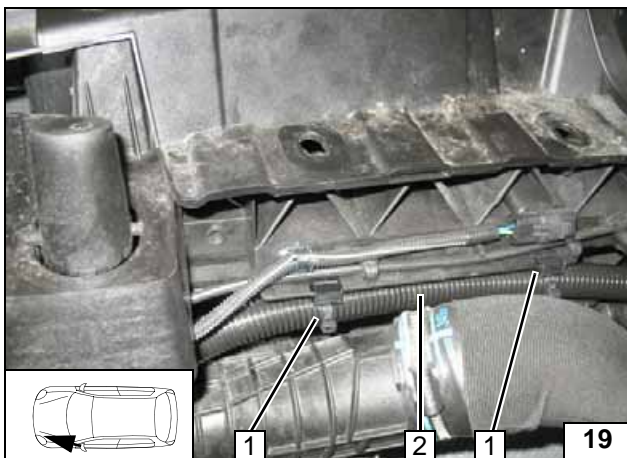


Wiring Harness Routing

- 1 Wiring harness of heater in 13mm dia. corrugated tube, cut open



Routing wiring harness



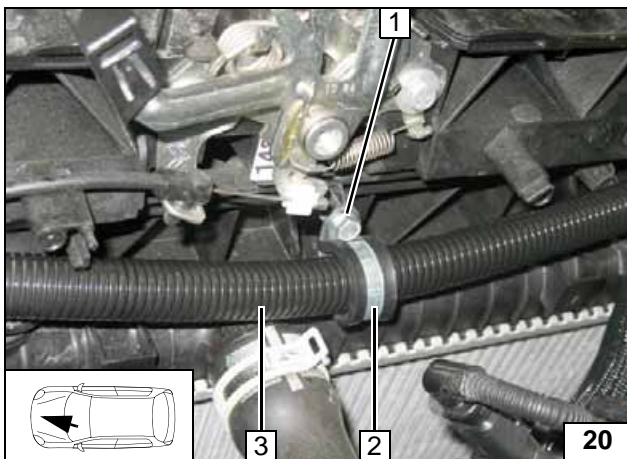
Peugeot 3008

Install retaining clamp 1 [2x] and fasten wiring harness with cable tie.

- 2 Wiring harness of heater in 13mm dia. corrugated tube

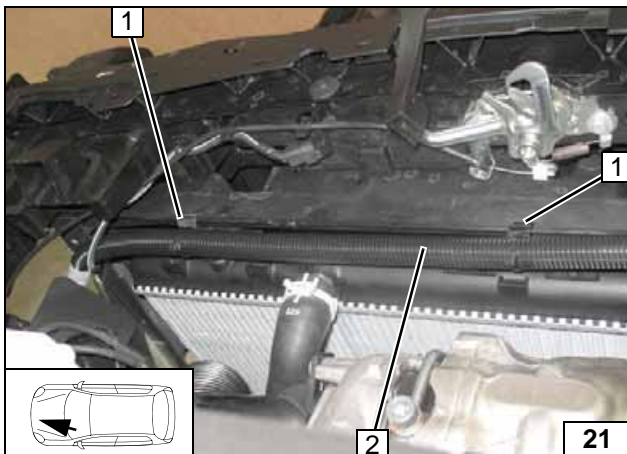


Routing wiring harness



- 1 5x13 self-tapping screw, existing hole
- 2 15mm dia. rubber-coated p-clamp
- 3 Wiring harness of heater in 13mm dia. corrugated tube

Routing wiring harness

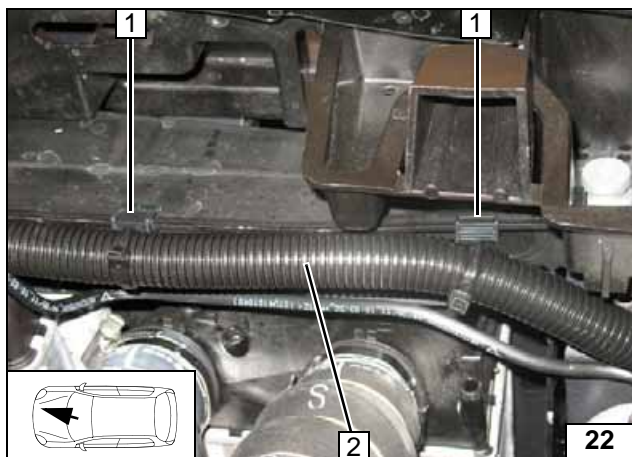


Peugeot 5008

Install retaining clamp 1 [2x] and fasten wiring harness with cable tie.

- 2 Wiring harness of heater in 13mm dia. corrugated tube

Routing wiring harness



Install retaining clamp **1** [2x] and fasten wiring harness with cable tie.

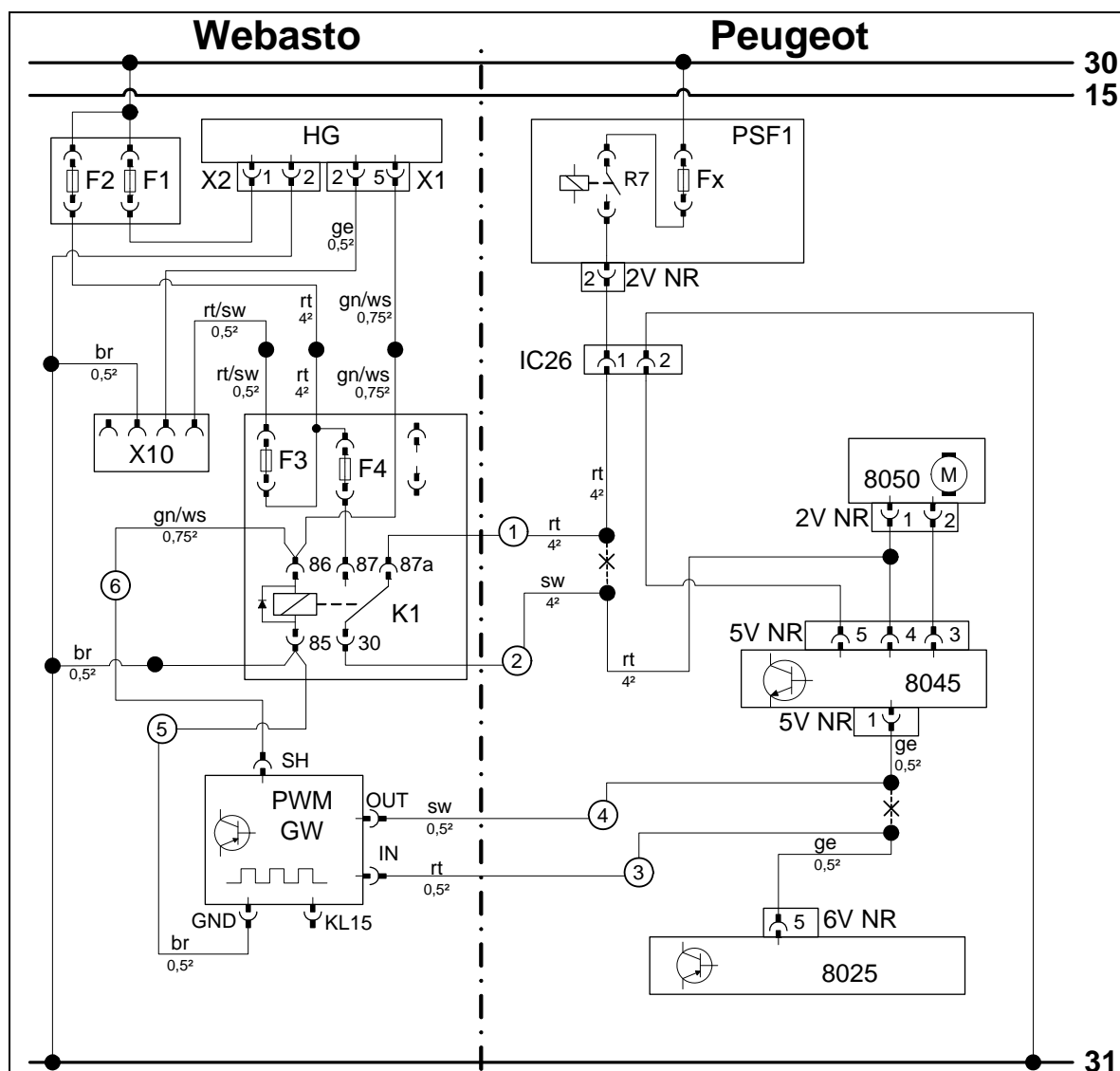
2 Wiring harness of heater in 13mm dia. corrugated tube



Routing wiring harness



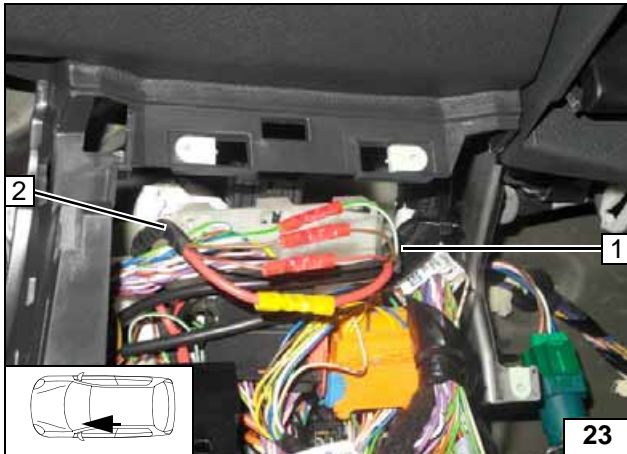
Fan Controller for Manual Air-Conditioning



Wiring diagram

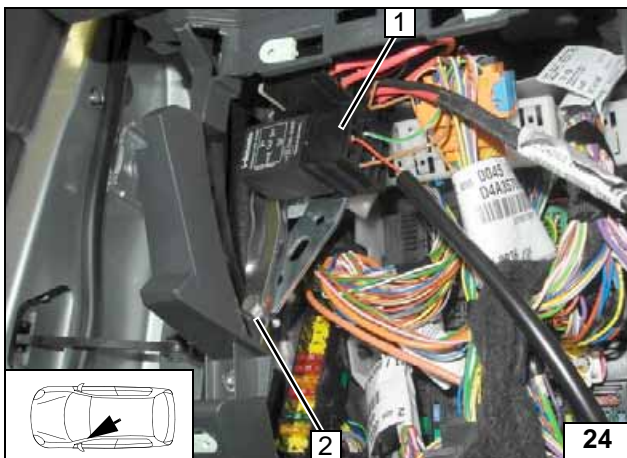
Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	PSF1	Operating PCB of engine compartment fuse box	rt	red
X1	6-pin heater connector	Fx	Fuse	sw	black
X2	2-pin heater connector	R7	Fan relay	ge	yellow
F1	20A fuse	2V NR	2-pin connector PSF1	gn	green
F2	30A fuse	IC26	Intermediate plug connection	ws	white
X10	4-pin connector of heater control	8050	Fan motor	br	brown
F3	1A fuse	2V NR	2-pin connector 8050		
F4	25A fuse	8045	Fan controller		
K1	Fan relay	5V NR	5-pin connector 8045		
PWM GW	Pulse width modulator	8025	A/C control unit		
PWM GW settings:		6V NR	6-pin connector 8025		
Duty cycle: 100% (DC)					
Frequency: not relevant				X	Cutting point
Voltage: 1.5V				Wiring colours may vary.	
Function: High-side					

Legend



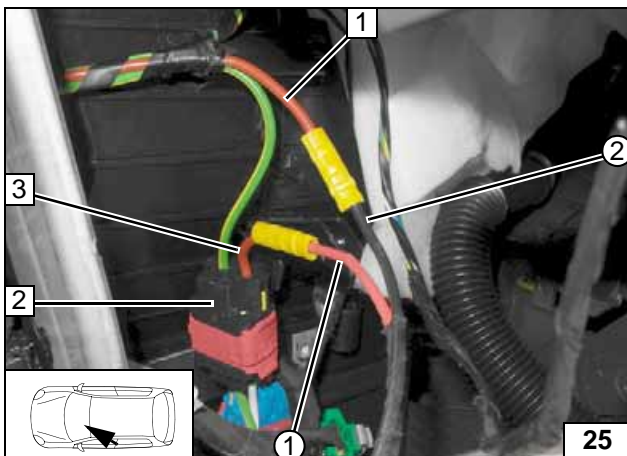
- 1 Wiring harness of heater
- 2 Wiring harness of passenger compartment relay and fuse holder

Connecting same colour wiring harnesses



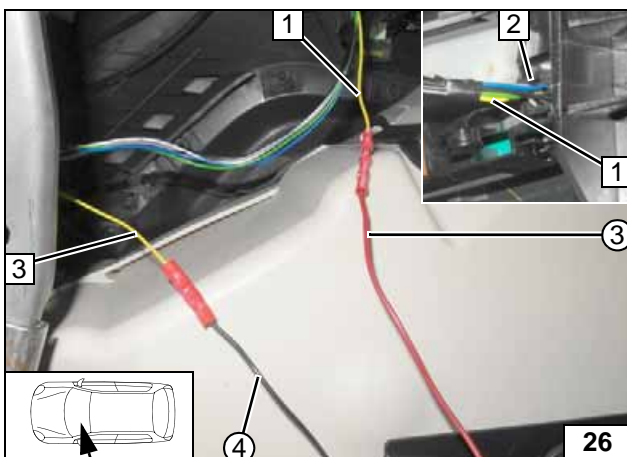
- 1 Passenger compartment relay and fuse holder and socket of PWM GW
- 2 M6x20 bolt, existing hole, perforated bracket, flanged nut

Installing PWM GW socket and passenger compartment relay and fuse holder



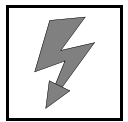
- 1 Red (rt) wire to connector 2V NR/1 of fan motor 8050
- 2 Intermediate connector IC26
- 3 Red (rt) wire of intermediate connector IC26/1
- ① Red (rt) wire from K1/87a, fan wiring harness
- ② Black (sw) wire from K1/30, fan wiring harness

Connection of fan motor

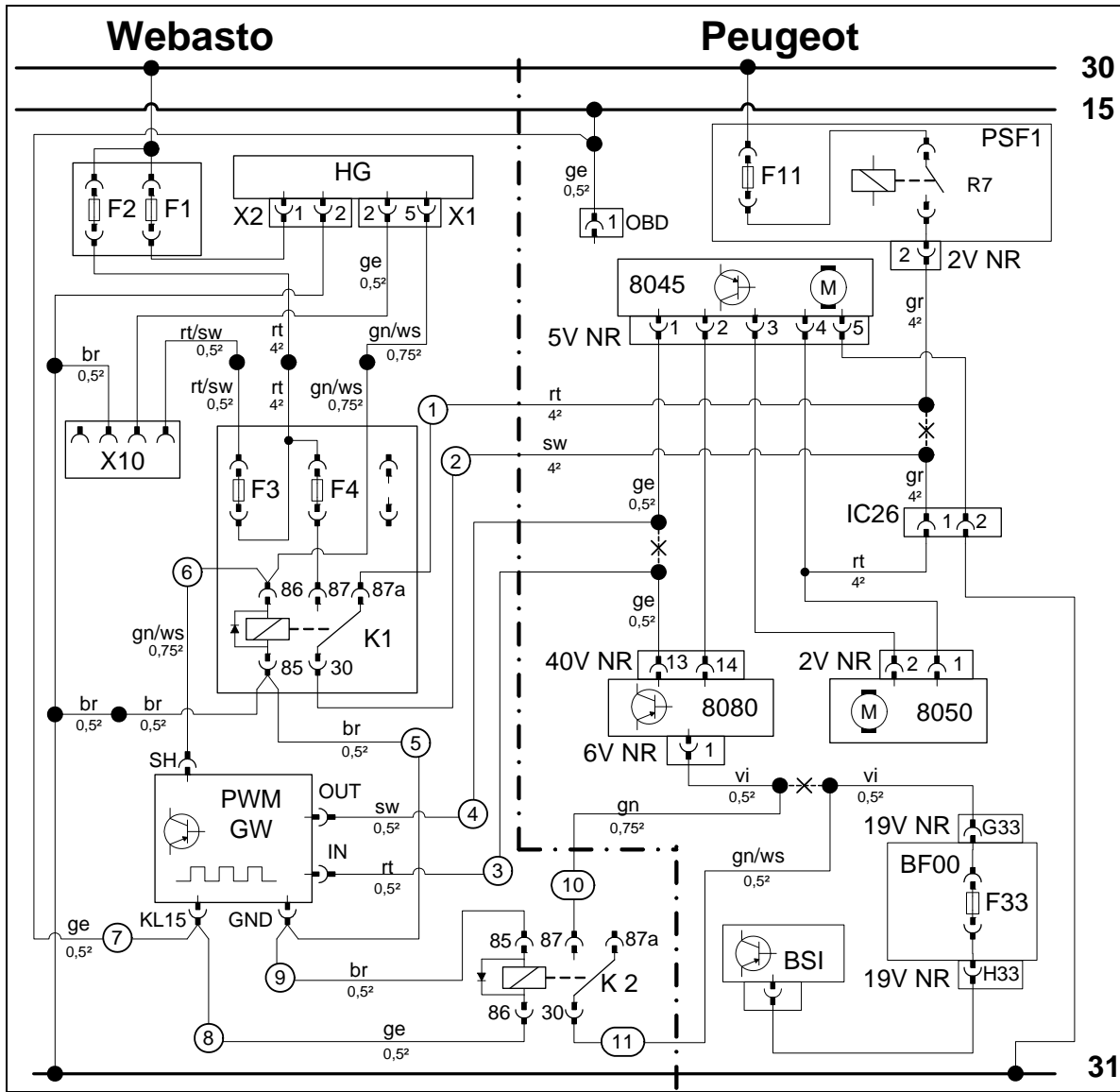


- 1 Yellow (ge) wire to connector 6V NR/5 of A/C control unit 8025
- 2 Connector 6V NR of A/C control unit 8025
- 3 Yellow (ge) wire from connector 5V NR/1 of fan controller 8045
- ③ Red (rt) wire of PWM GW/IN
- ④ Black (sw) wire of PWM GW/OUT

Connecting A/C control unit



Fan Controller for Automatic Air-Conditioning

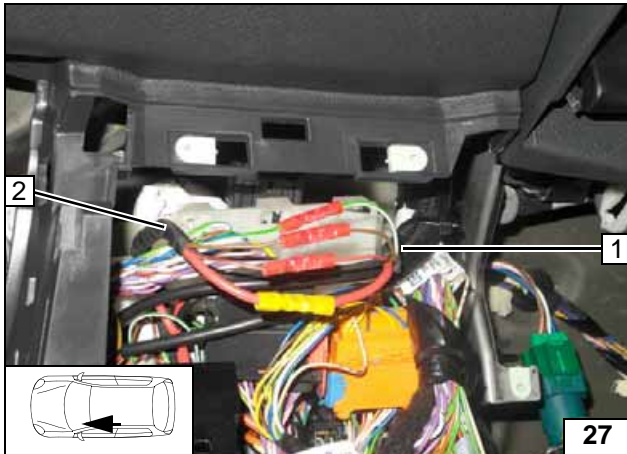


30
15
31

Wiring diagram

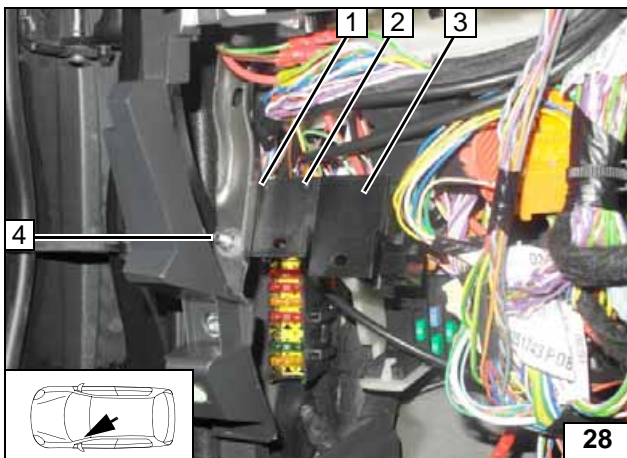
Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	PSF1	Operating PCB of engine compartment fuse box	rt	red
X1	6-pin heater connector	F11	Fuse	sw	black
X2	2-pin heater connector	R7	Fan relay	ge	yellow
F1	20A fuse	2V NR	2-pin connector PSF1	gn	green
F2	30A fuse	OBDD	On Bord Diagnosis	ws	white
X10	4-pin connector of heater control	8045	Fan controller	br	brown
F3	1A fuse	5V NR	5-pin connector 8045	vi	violet
F4	25A fuse	IC26	Intermediate plug connection	gr	grey
K1	Fan relay	8080	A/C control unit		
PWM GW	Pulse width modulator	40V NR	40-pin connector 8080		
K2	Additional relay	6V NR	6-pin connector 8080		
PWM GW settings:		8050	Fan motor		
Duty cycle: 100% (DC)		2V NR	2-pin connector 8050		
Frequency: not relevant		BF00	Passenger compartment fuse box		
Voltage: 1.5V		F33	Fuse	X	Cutting point
Function: High-side		19V NR	19-pin connector BF00	Wiring colours may vary.	
		BSI	Central switching unit		

Legend



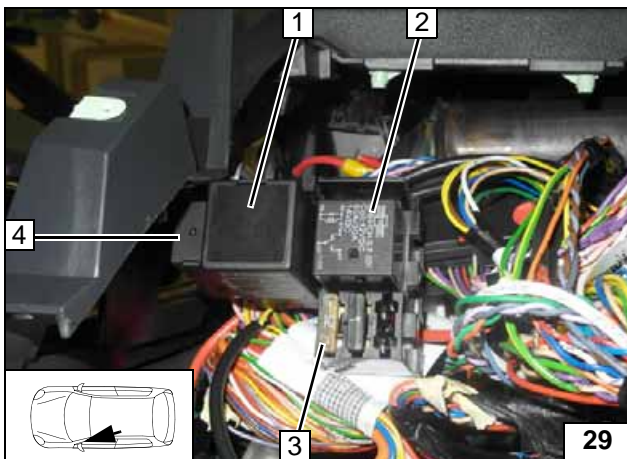
- 1 Wiring harness of heater
- 2 Wiring harness of passenger compartment relay and fuse holder

Connecting same colour wiring harnesses



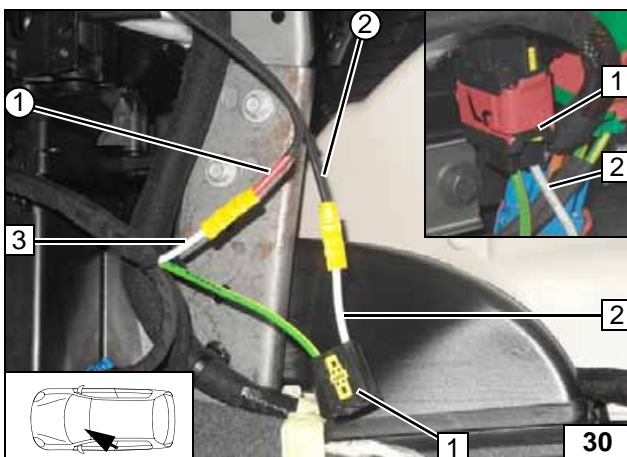
- 1 K2 relay socket (hidden)
- 2 PWM GW socket
- 3 Relay and fuse holder of passenger compartment
- 4 M5x16 bolt, large diameter washer, existing hole, large diameter washer, flanged nut

Installing socket of K2 relay and PWM GW as well as passenger compartment relay and fuse holder



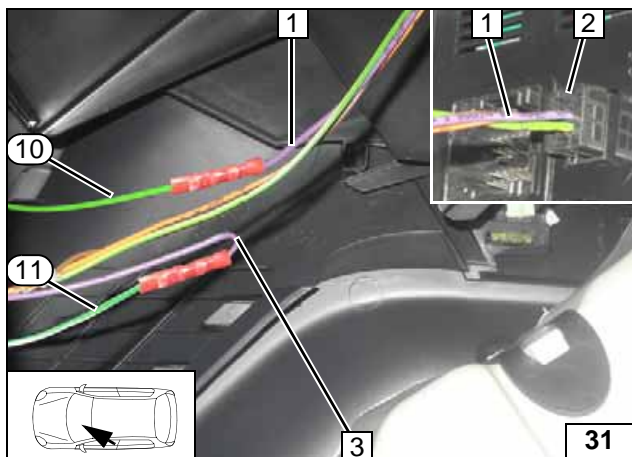
- 1 PWM GW
- 2 K1 relay
- 3 25A fuse F4
- 4 K2 relay

Installing K1 and K2 relay, PWM GW as well as fuse F4



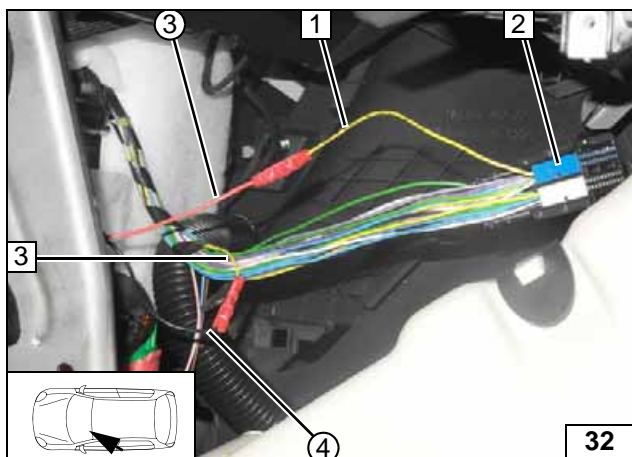
- 1 Intermediate connector IC26
- 2 Grey (gr) wire to intermediate connector IC26/1
- 3 Grey (gr) wire from connector 2V NR/2 for operating PCB of engine compartment fuse box PSF1
- ① Red (rt) wire from K1/87a, fan wiring harness
- ② Black (sw) wire from K1/30, fan wiring harness

Connection of fan motor



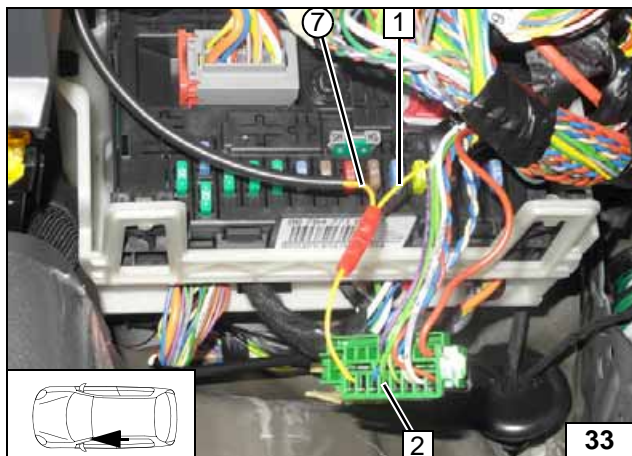
- 1 Violet (vi) wire to connector 6V NR/1 of A/C control unit 8080
- 2 Connector 6V NR of A/C control unit 8080
- 3 Violet (vi) wire to connector 19V NR/ G33 of passenger compartment fuse box BF00
- ⑩ Green (gn) wire of K2/87
- ⑪ Green/white (gn/ws) wire of K2/30

Connecting A/C control unit



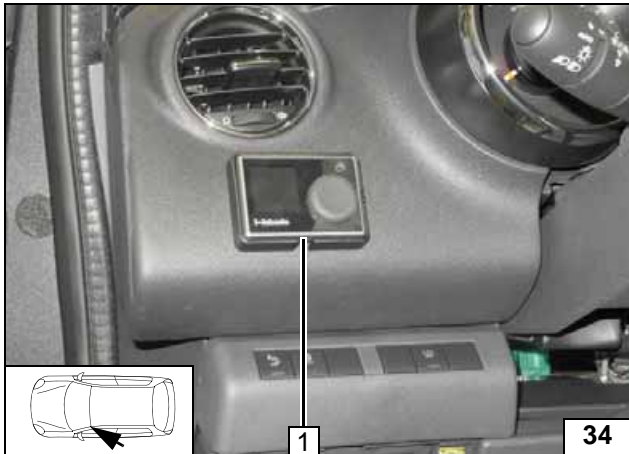
- 1 Yellow (ge) wire to connector 40V NR/13 of A/C control unit 8080
- 2 Connector 40V NR of A/C control unit 8080
- 3 Yellow (ge) wire from connector 5V NR/1 of fan controller 8045
- ③ Red (rt) wire of PWM GW/IN
- ④ Black (sw) wire of PWM GW/OUT

Connecting A/C control unit



- 1 Yellow (ge) wire of terminal 15
- 2 OBD socket outlet
- ⑦ Yellow (ge) wire of PWM GW/KL15

Connecting OBD socket outlet

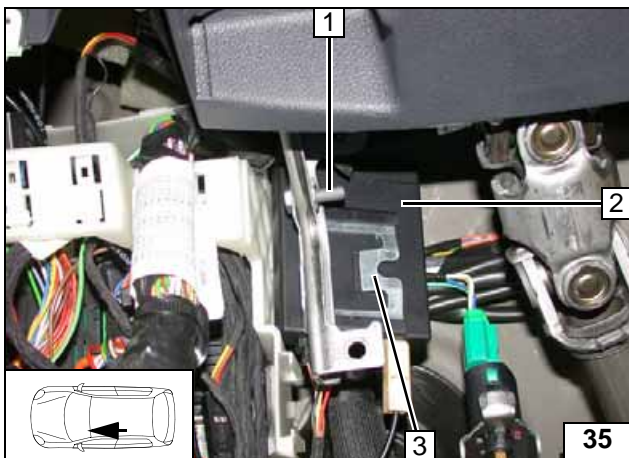


MultiControl CAR

- 1 MultiControl CAR with installation frame



Installing MultiControl CAR



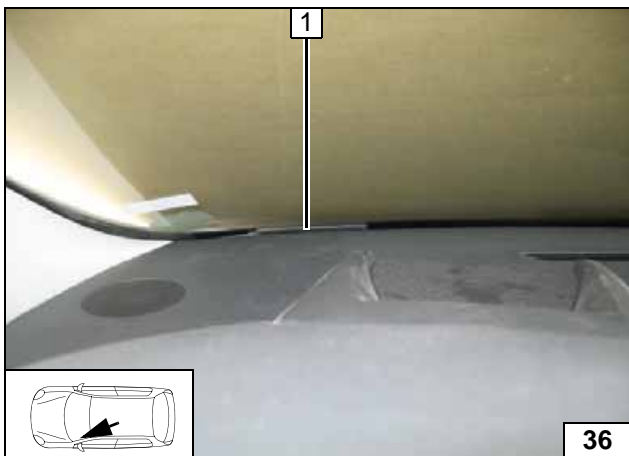
Remote Option Telearstart

Bend bracket of receiver 3 as shown.

- 1 M5x20 bolt, washer, flanged nut, existing hole
- 2 Receiver mounted



Installing receiver



- 1 Antenna

Installing antenna

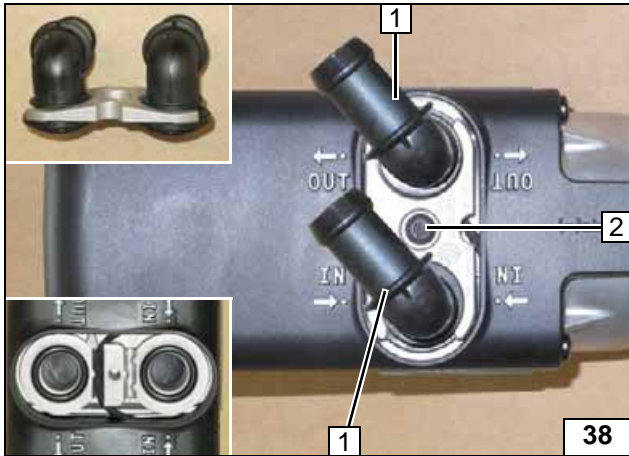


Temperature sensor T100 HTM

Fasten temperature sensor 1 with adhesive tape.



Mounting temperature sensor

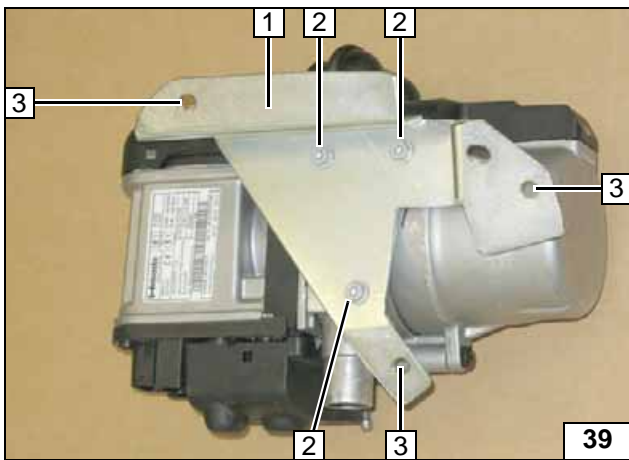


Preparing Heater

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

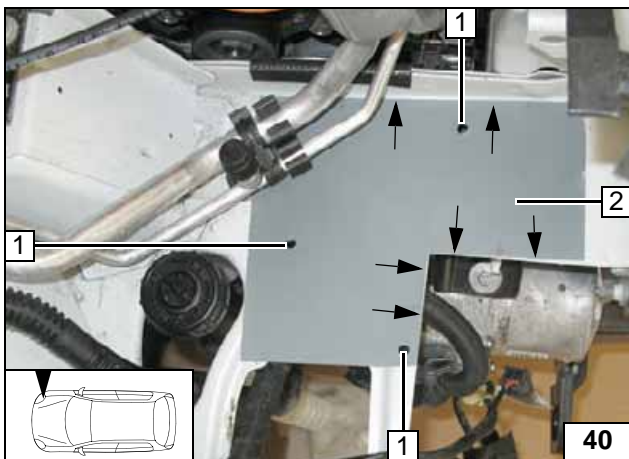


Installing water connection pieces



- 1 Bracket
- 2 5x13 self-tapping bolt [3x]
- 3 Holes for mounting heater [3x]

Mounting bracket



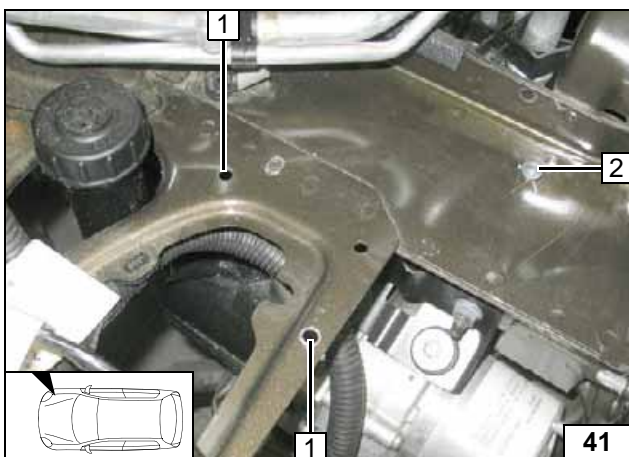
Preparing Installation Location

Cut out template 2 and apply at the markings.

- 1 Copy hole pattern [3x]

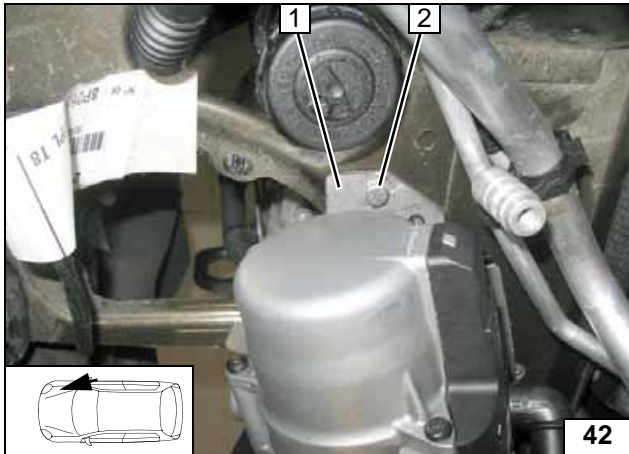


Copying hole pattern



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

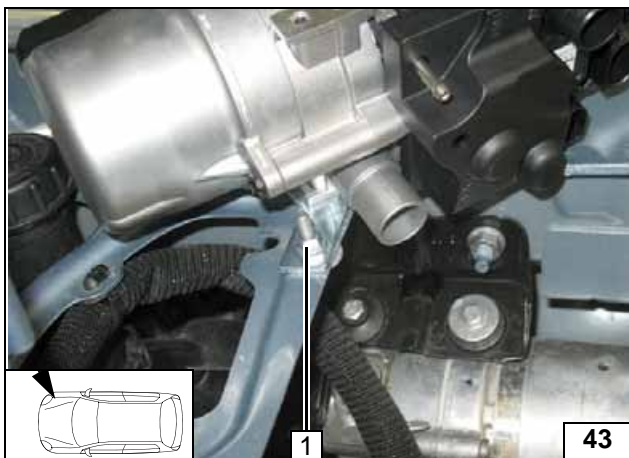
Installing rivet nut



Installing Heater

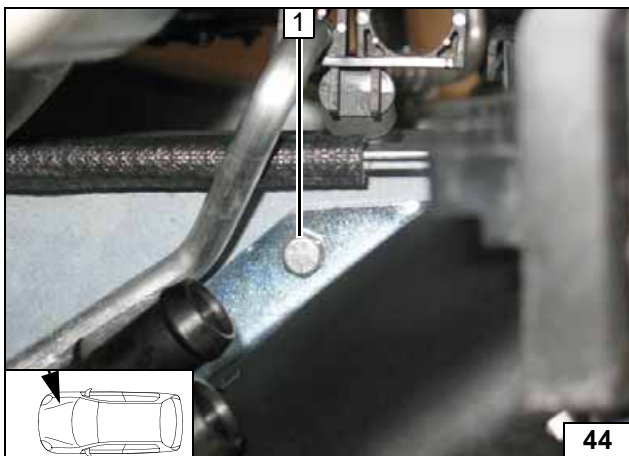
- 1 Bracket of heater
- 2 M6x20 bolt, flanged nut

Mounting heater



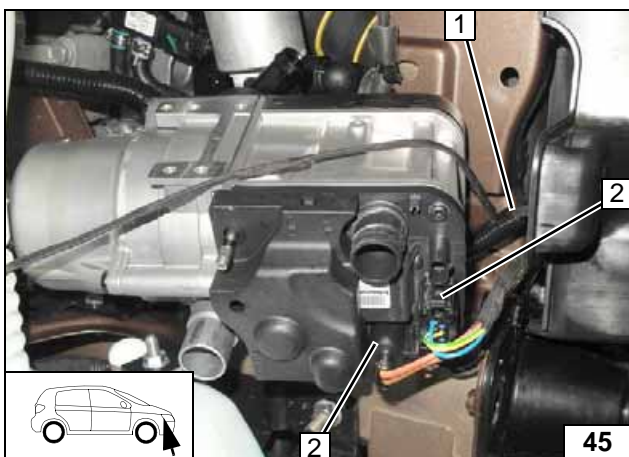
- 1 M6x20 bolt, large diameter washer, flanged nut

Mounting heater



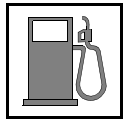
- 1 M6x20 bolt, spring lockwasher

Mounting heater



- 1 Wiring harness of heater in 13mm dia. corrugated tube
- 2 Connector of heater wiring harness [2x]

Routing / connecting wiring harness



Fuel

CAUTION!

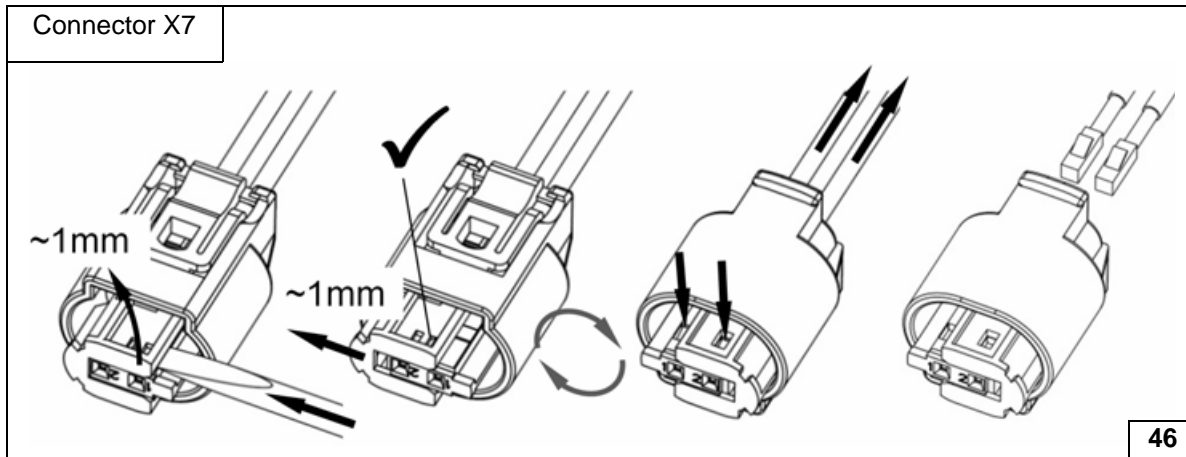
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off in an appropriate container.

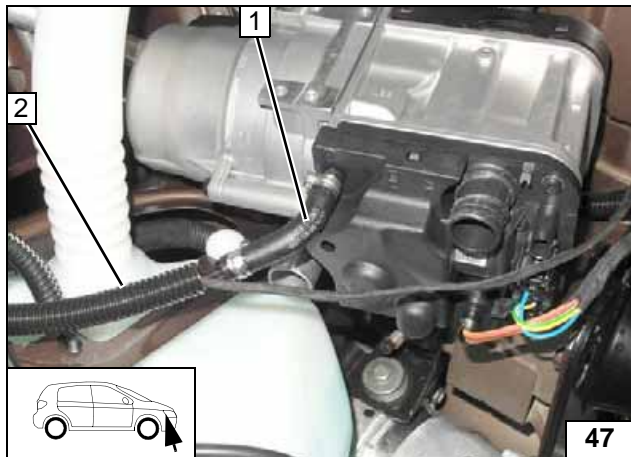
Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

WARNING!

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



Dismantling connector of metering pump

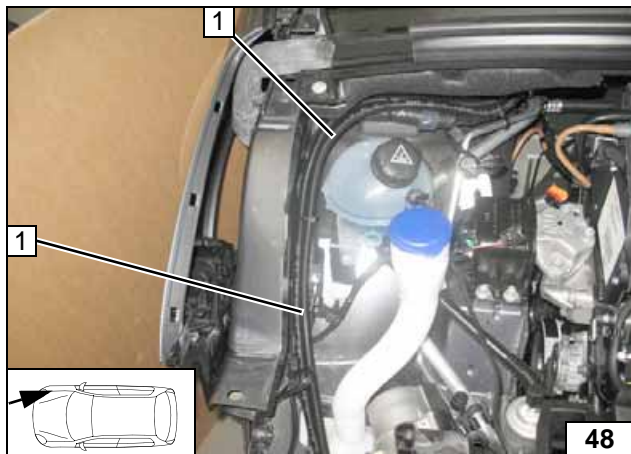


Washer reservoir will be installed later. Cut 1200mm from 10mm dia. corrugated tube. Route fuel line and wiring harness of metering pump in 1200mm long, 10mm dia. corrugated tube **2** to firewall.

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



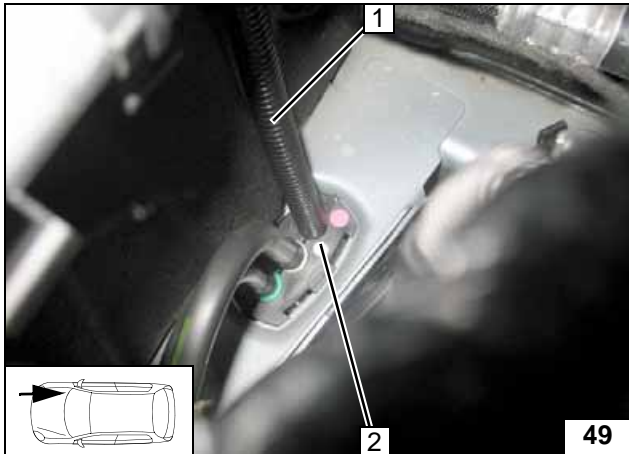
Connecting heater



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

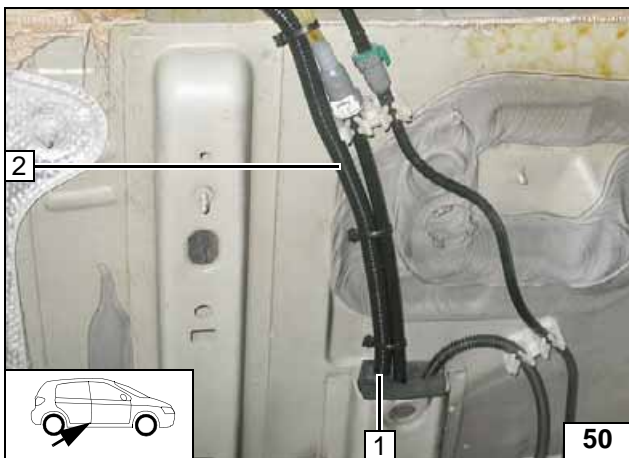


Routing lines



- 1 Fuel line and wiring harness of metering pump in 10 mm dia. corrugated tube
- 2 Original vehicle wiring harness pass through of underbody

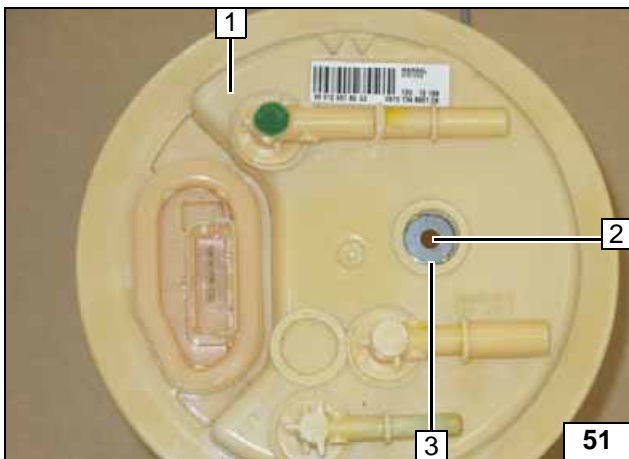
Routing lines



Guide wiring harness of metering pump and fuel line out of original vehicle line duct (existing pass through 1) and slide on 10 mm dia., 500 mm long corrugated tube 2.



Routing lines



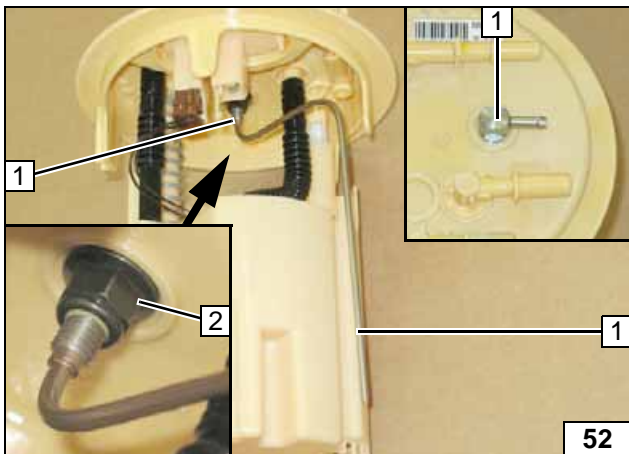
Version A

Lower and support fuel tank according to manufacturer's instructions (only in case of 5008).
Remove fuel-tank sending unit 1 in accordance with manufacturer's instructions. Position washer with outer dia. $d_a = 18 \text{ mm}$ 3 into recess.



Fuel extraction

- 2 Copy hole pattern, 6mm dia. hole

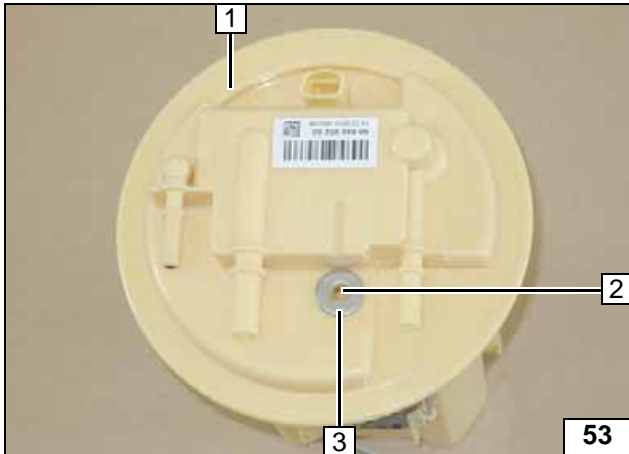


Shape fuel standpipe 1 as shown in the template and cut it to length.

- 2 Flanged nut



Mounting fuel standpipe



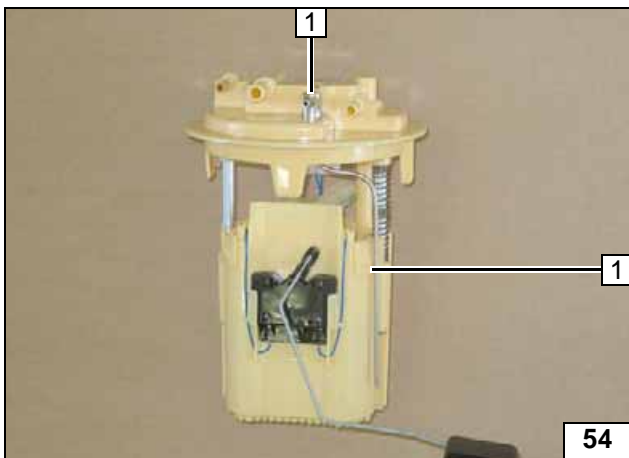
Version B

Lower and support fuel tank according to manufacturer's instructions (only in case of 5008). Remove fuel-tank sending unit **1** in accordance with manufacturer's instructions. Place washer with outer dia. $d_a = 18\text{mm}$ **3** as shown.

2 Copy hole pattern, 6mm dia. hole



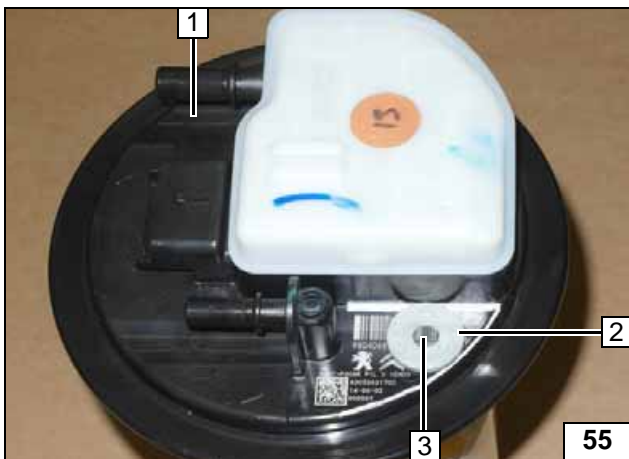
Fuel extraction



Shape fuel standpipe **1** as shown in the template and cut it to length.



Mounting fuel standpipe



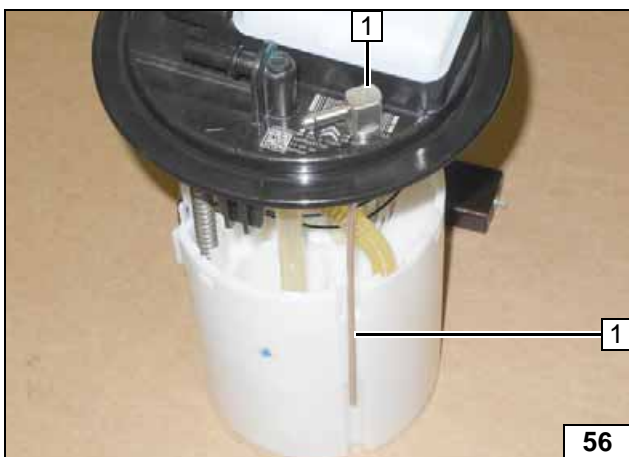
Version C

Lower and support fuel tank according to manufacturer's instructions (only in case of 5008). Remove fuel-tank sending unit **1** in accordance with manufacturer's instructions. Place large diameter washer with outer dia. $d_a = 21.6\text{mm}$ **2** against the ribs.

3 Copy hole pattern, 6mm dia. hole



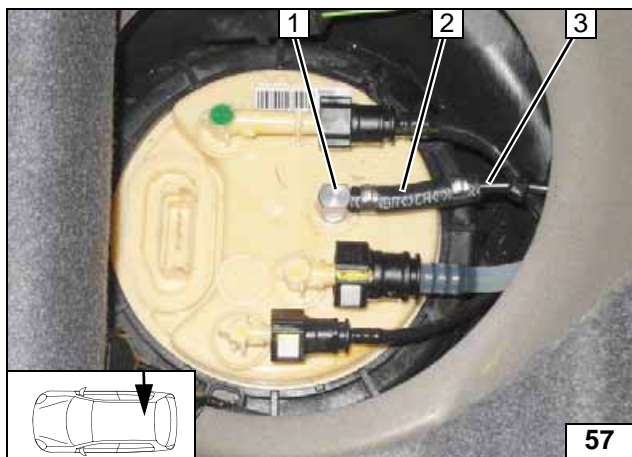
Fuel extraction



Shape fuel standpipe **1** as shown in the template and cut it to length.



Mounting fuel standpipe



Peugeot 3008

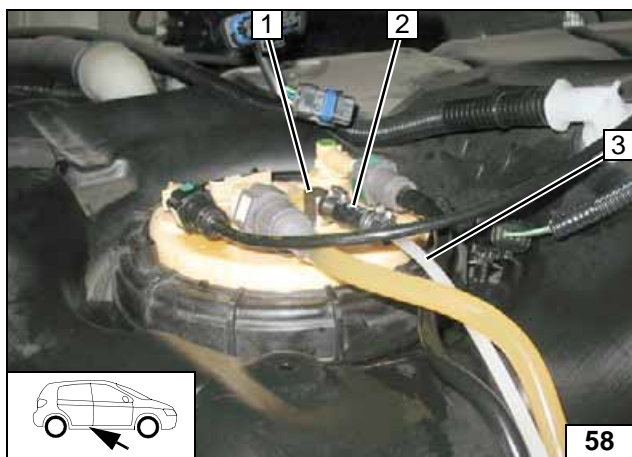
Representation with fuel-tank sending unit version A.

Install fuel-tank sending unit in accordance with manufacturer's instructions.

- 1 Fuel standpipe
- 2 Hose section, 10mm dia. clamp [2x]
- 3 1000mm long fuel line



Connecting fuel line



Peugeot 5008

Representation with fuel-tank sending unit version A.

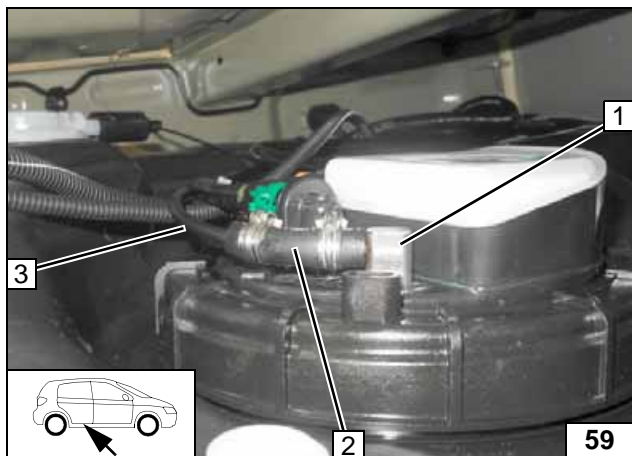
Install fuel-tank sending unit in accordance with manufacturer's instructions.

- 1 Fuel standpipe
- 2 Hose section, 10mm dia. clamp [2x]
- 3 1000mm long fuel line



Connecting fuel line

Install fuel tank in accordance with manufacturer's instructions.



Representation with fuel-tank sending unit version C.

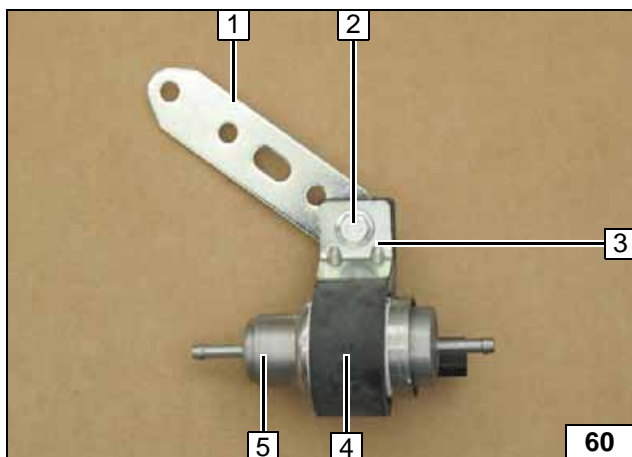
Install fuel-tank sending unit in accordance with manufacturer's instructions.

- 1 Fuel standpipe
- 2 Hose section, 10mm dia. clamp [2x]
- 3 1000mm long fuel line



Connecting fuel line

Install fuel tank in accordance with manufacturer's instructions.

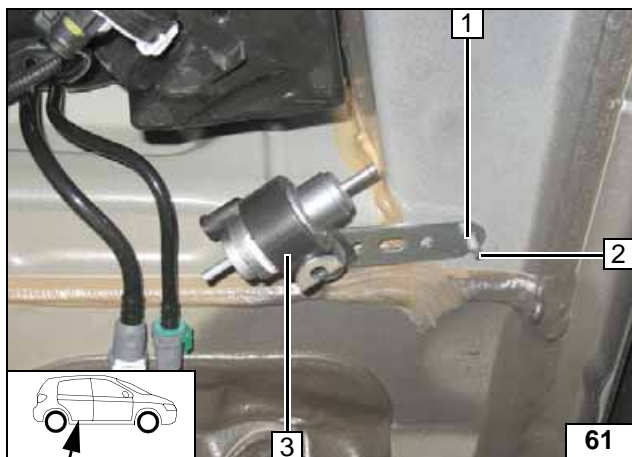


All vehicles!

- 1 Perforated bracket
- 2 M6x25 bolt, flanged nut
- 3 Support angle bracket
- 4 Mounting
- 5 Metering pump

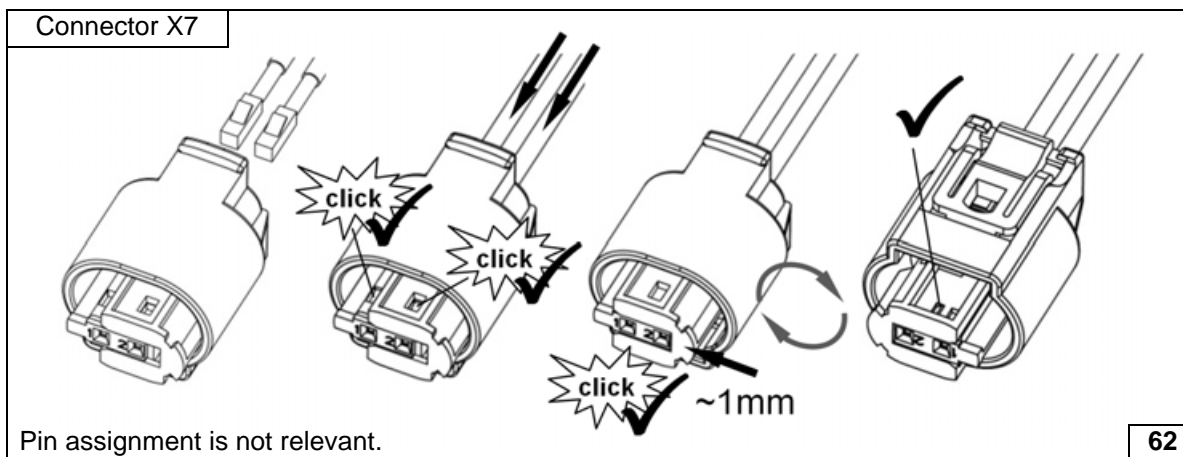


Premounting metering pump

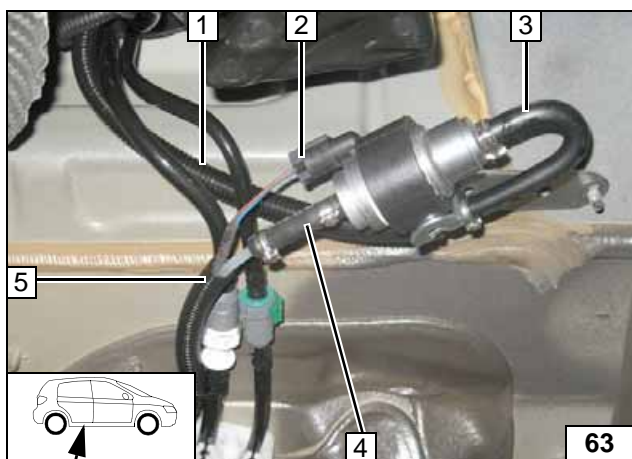


- 1 Pin lock
- 2 Original vehicle stud bolt
- 3 Metering pump

Mounting metering pump



Completing connector of metering pump



Slide 10 mm dia., 330mm long corrugated tube 1 onto fuel line of fuel standpipe.

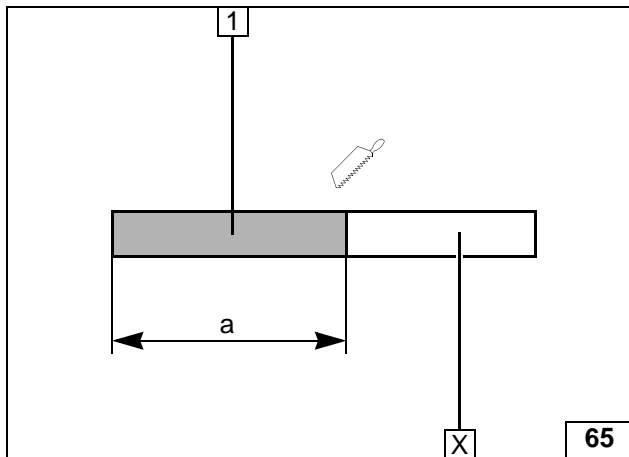
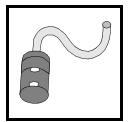
- 2 Wiring harness of metering pump, connector X7 mounted
- 3 180° moulded hose, 10 mm dia. clamp, fuel line of fuel standpipe
- 4 Hose section, 10 mm dia. clamp, fuel line of heater
- 5 10 mm dia. corrugated tube

Connection of metering pump



- 1 Original vehicle stud bolt
- 2 Original vehicle flanged nut
- 3 Underbody trim

Mounting underbody trim

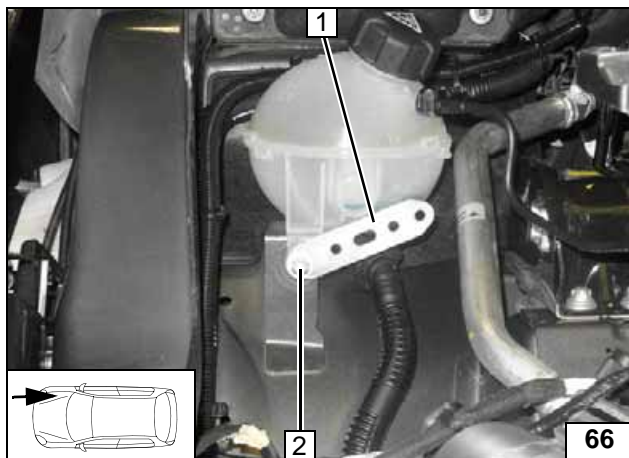


Combustion Air

Discard section X .

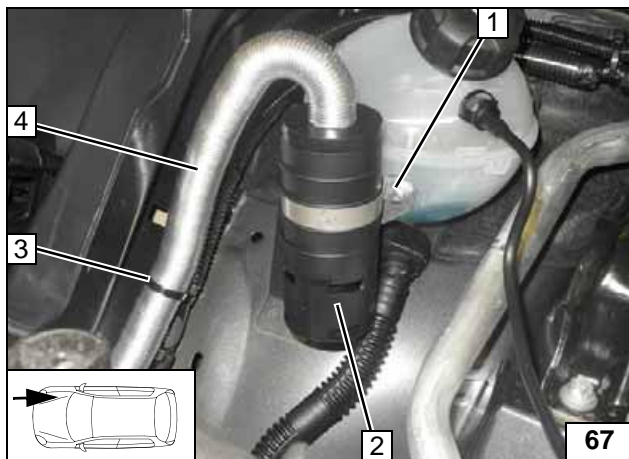
- 1 Combustion air pipe
a =620

Cutting combustion air pipe to length



- 1 Perforated bracket
- 2 Original vehicle bolt

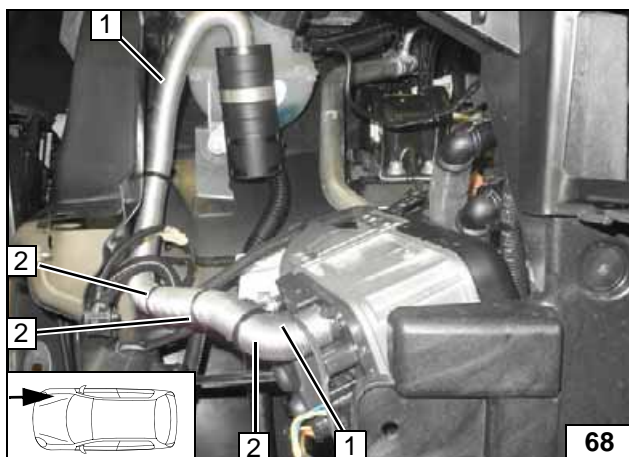
Installing perforated bracket



- 1 M5x16 bolt, 51mm dia. p-clamp, perforated bracket, flanged nut
- 2 Silencer
- 3 Cable tie
- 4 Combustion air pipe

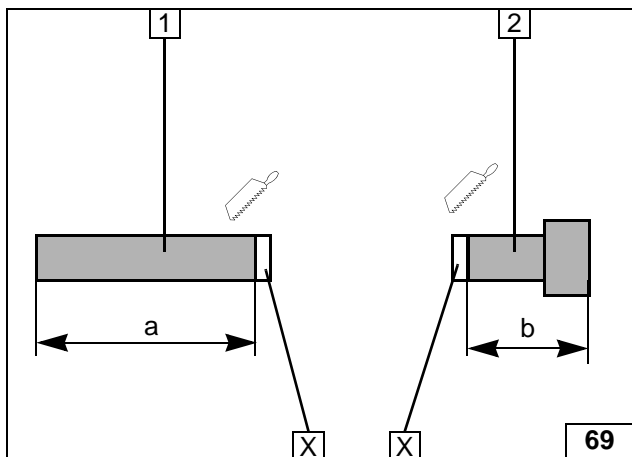
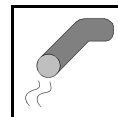


Mounting silencer



- 1 Combustion air pipe
- 2 Cable tie [3x]

Connecting heater

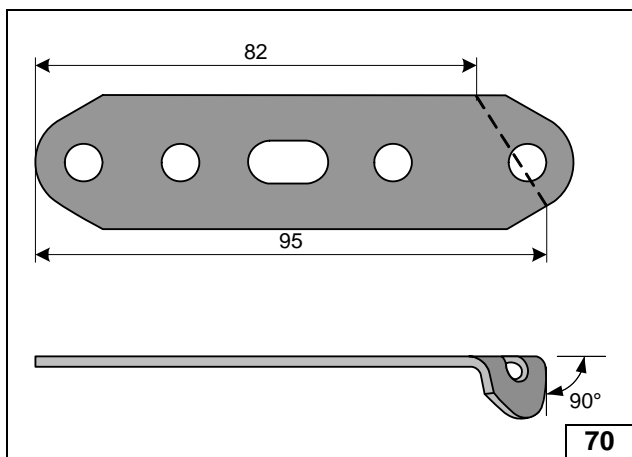


Exhaust Gas

Discard sections X.

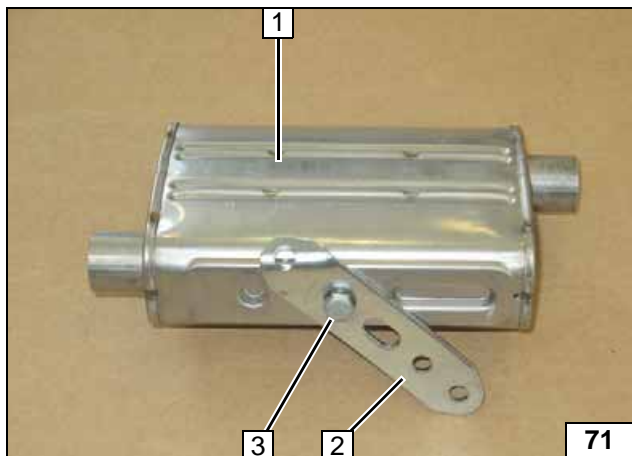
- 1 Exhaust pipe
a = 395
- 2 Exhaust end section
b = 95

Preparing exhaust pipes



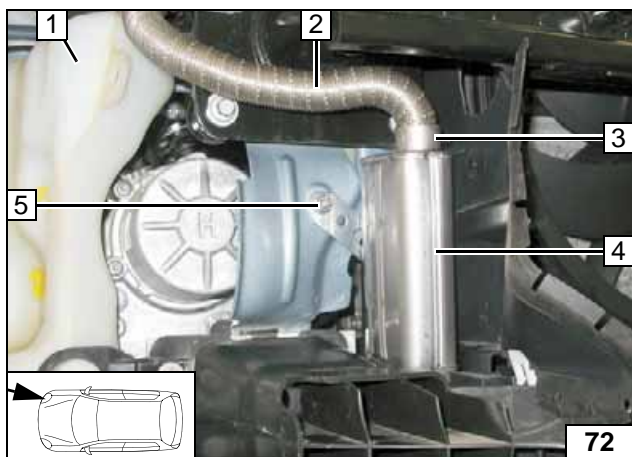
- 1 Perforated bracket

Angling down perforated bracket



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

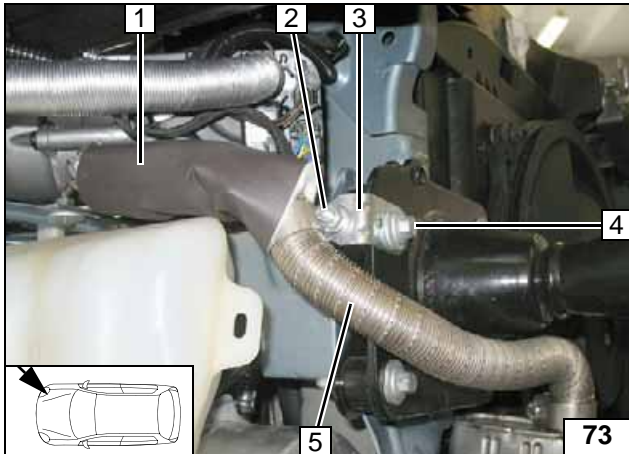
Premounting silencer



Reinstall washer reservoir 1.
Align silencer 4 vertically.

- 2 Exhaust pipe
- 3 Hose clamp
- 6 M6x20 bolt, large diameter washer, existing hole, perforated bracket, flanged nut

Mounting silencer

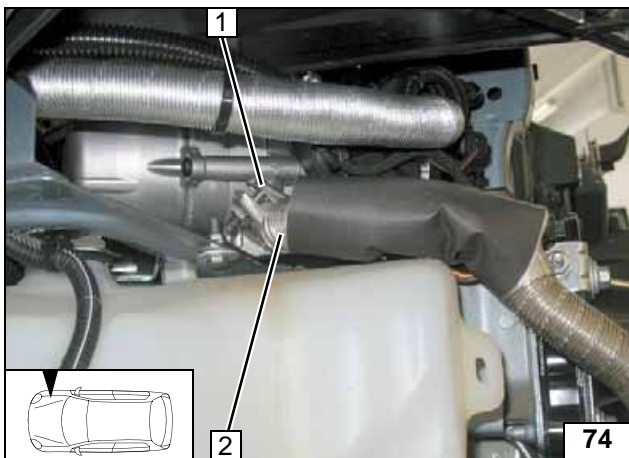


Slide exhaust-gas insulation 1 on to exhaust pipe 5.



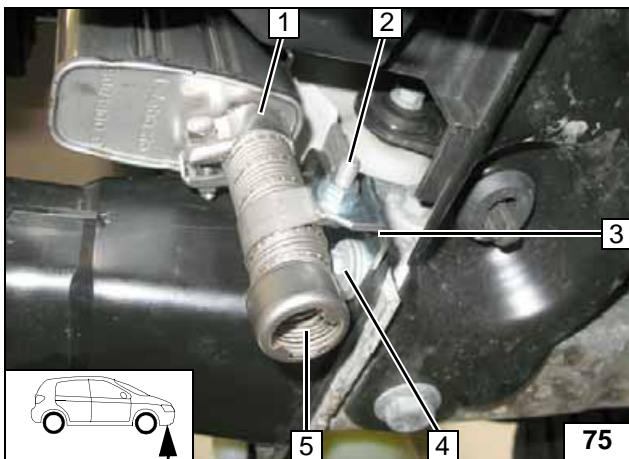
- 2 M6x20 bolt, p-clamp, flanged nut
- 3 Angle bracket
- 4 Original vehicle bolt

Mounting exhaust pipe



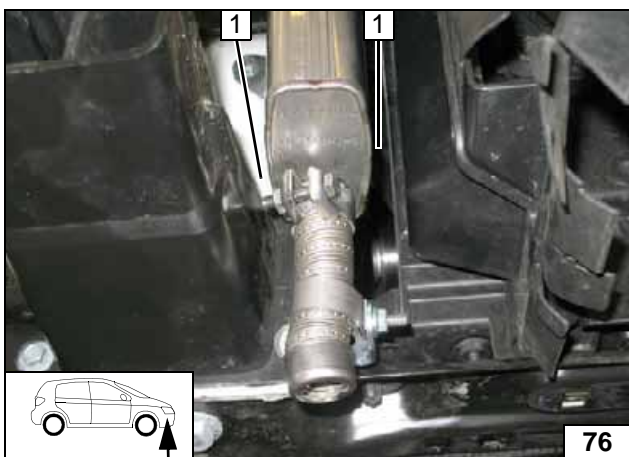
- 1 Hose clamp
- 2 Exhaust pipe

Mounting exhaust pipe



- 1 Hose clamp
- 2 M6x20 bolt, p-clamp, flanged nut
- 3 Angle bracket
- 4 Original vehicle bolt, large diameter washer
- 5 Exhaust end section

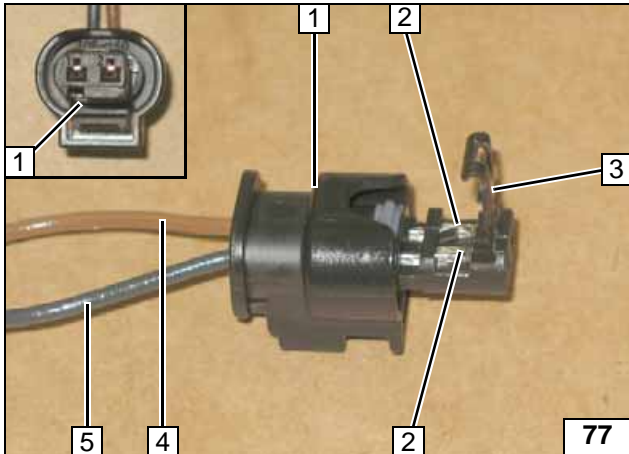
Installing exhaust end section



Ensure sufficient distance of exhaust silencer at position 1 from neighbouring components, correct if necessary.



Aligning silencer and exhaust end section



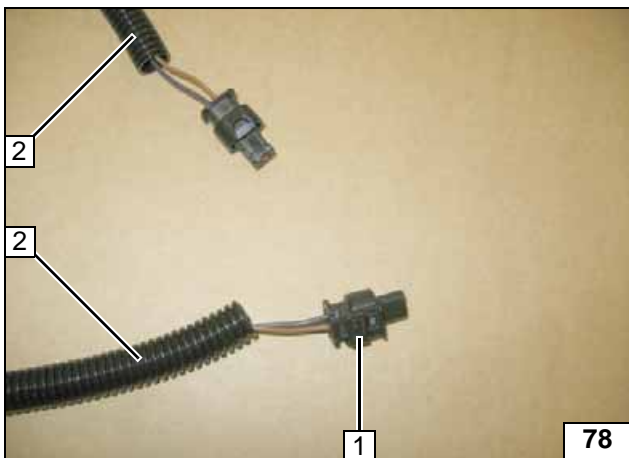
Preparing wiring harness of circulating pump

Dismantle connector of circulating pump. Connector of circulating pump is completed again after sliding on 10 mm dia. corrugated tube.

- 1 Connector
- 2 Timer lock [2x]
- 3 Lock
- 4 Brown (br) wire
- 5 Black (sw) wire



Dismantling connector



Slide on 10mm dia., 1130mm long corrugated tube onto wiring harness of circulating pump. Route excess wiring harness into corrugated tube.

- 1 Connector of circulating pump completed



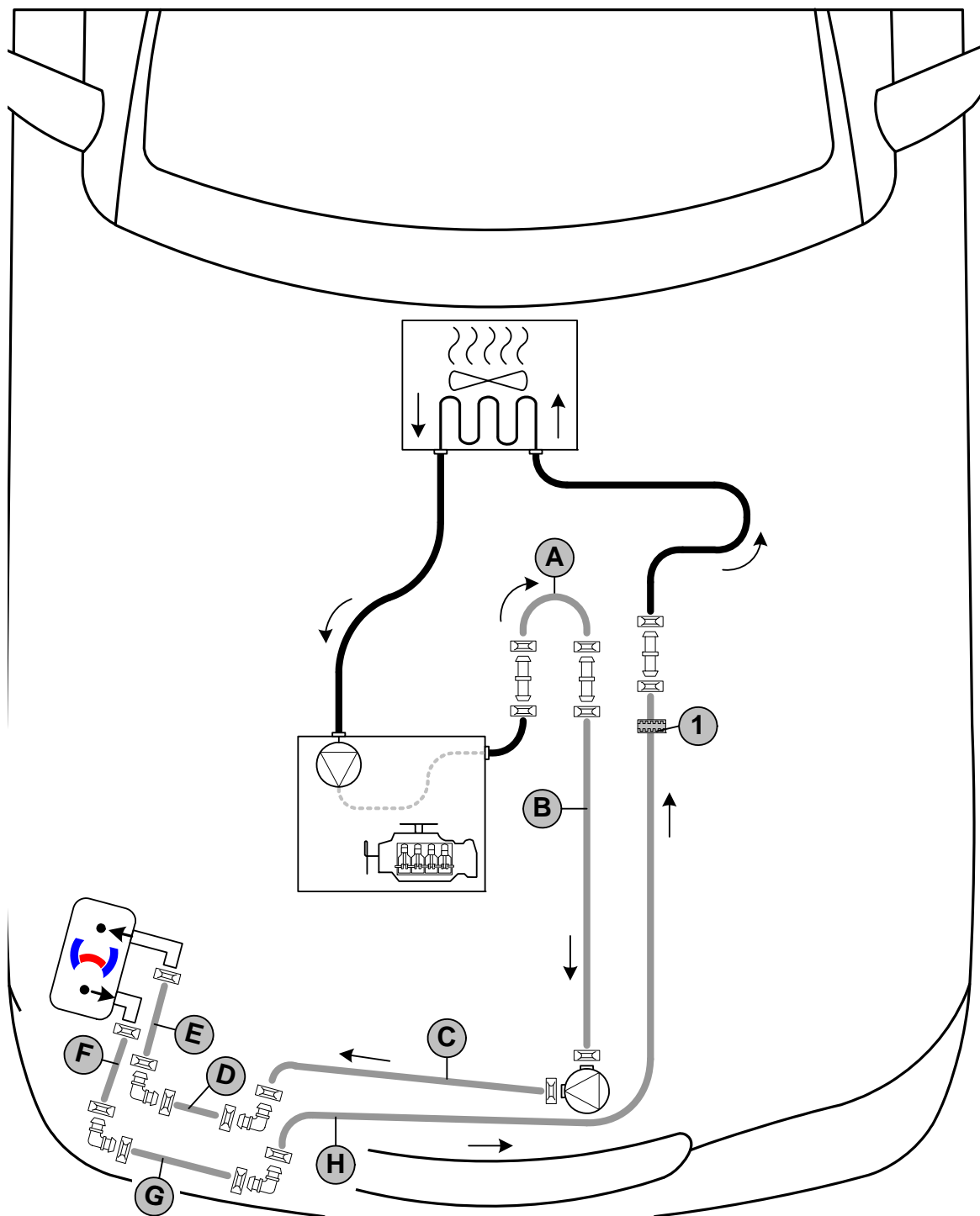
Sliding on corrugated tube






Coolant Circuit

WARNING!

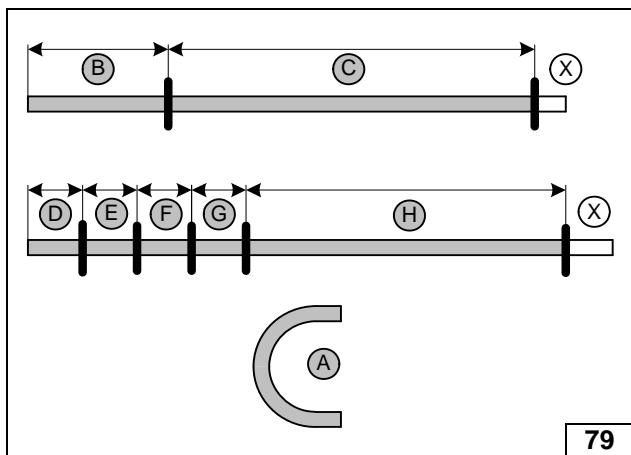
Any coolant running off should be collected using an appropriate container. Route hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged. The heater must be filled with coolant when installing the hoses. The connection should be modelled on an "inline" circuit and based on the following diagram:



Hose routing diagram

All spring clips without a specific designation  = 25 mm dia.
 All connecting pipes  and  = 18x18 mm dia.
 1 = Black (sw) rubber insulator



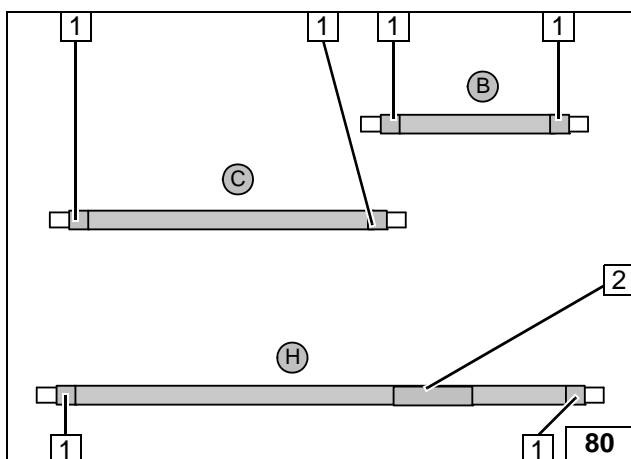


Discard section **X**.
Hose **A** = 18mm dia., 180° moulded hose

- B** = 620
- C** = 1340
- D** = 60
- E** = 60
- F** = 60
- G** = 60
- H** = 1900



Cutting hoses to length

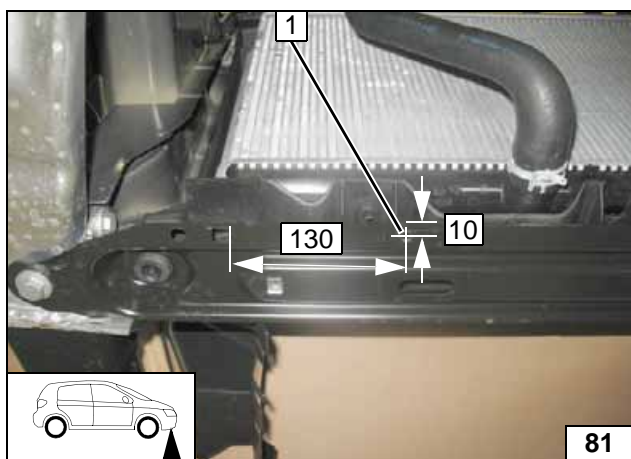


Push braided protection hoses onto hose **B**, **C** and **H** and cut to length.
Cut heat shrink plastic tubing to length.

- 1** 50 mm long heat shrink plastic tubing [6x]
- 2** 100 mm long heat shrink plastic tubing



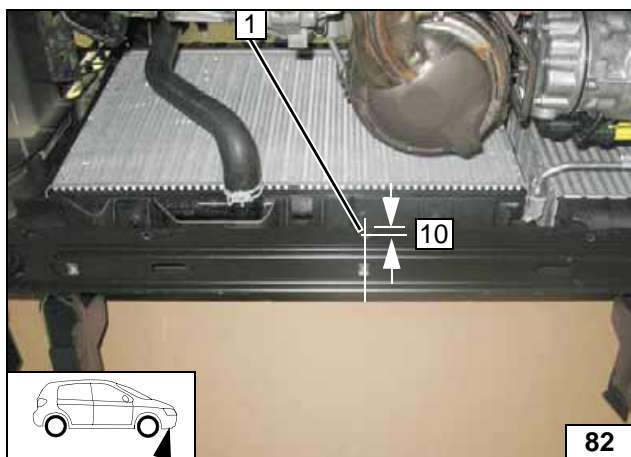
Preparing hoses



Copy hole pattern **1** for 7.0 mm dia. hole and drill hole.



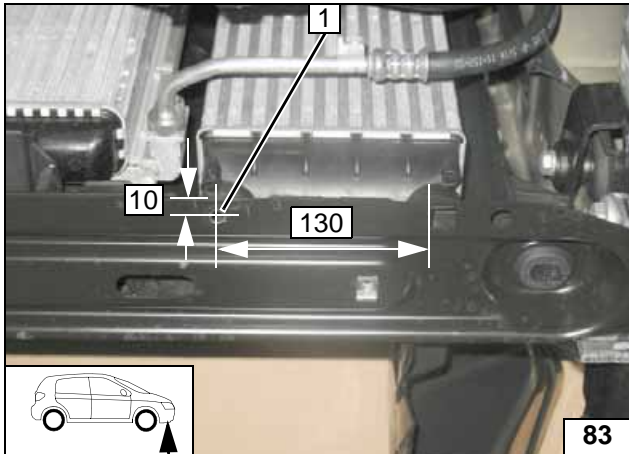
Preparing hose routing



Copy hole pattern **1** for 7.0 mm dia. hole and drill hole.



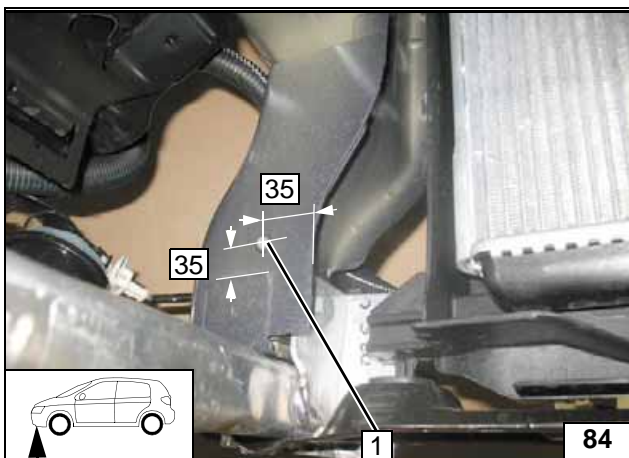
Preparing hose routing



Copy hole pattern 1 for 7.0 mm dia. hole and drill hole.



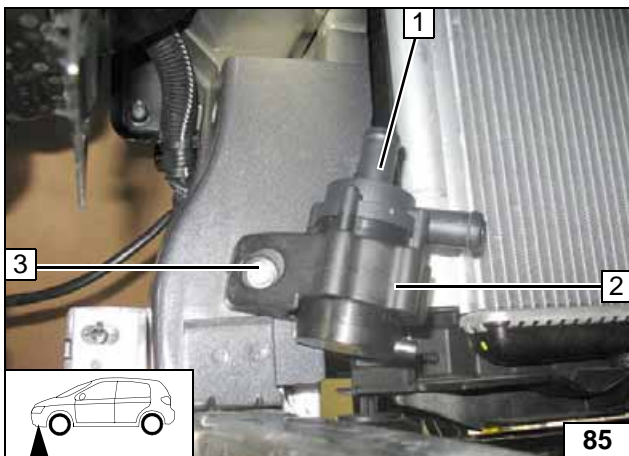
Preparing hose routing



Copy hole pattern 1 for 9.1 mm dia. hole, drill hole and install M6 rivet nut.

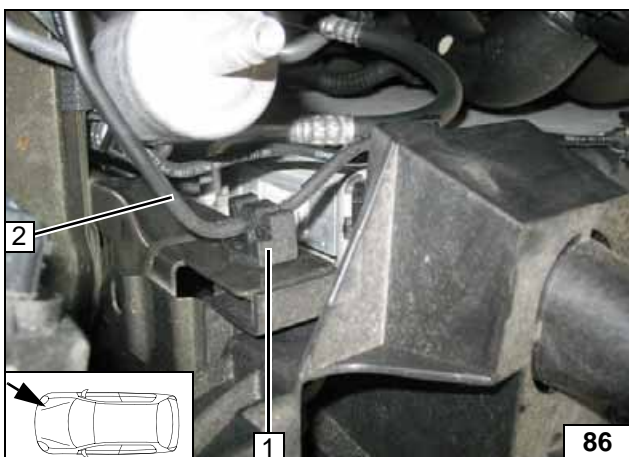


Preparing mounting of circulating pump



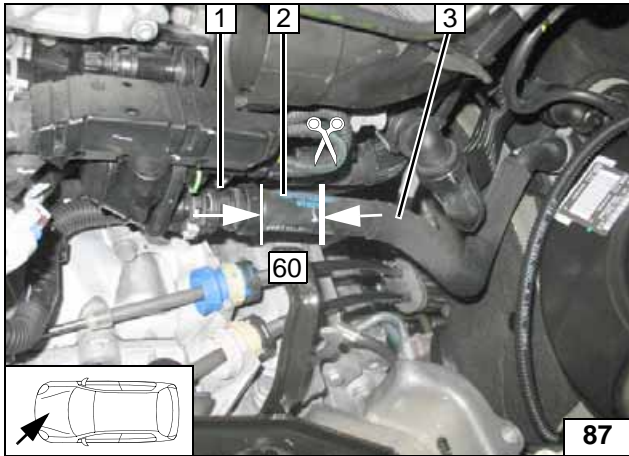
- 1 Circulating pump
- 2 Circulating pump mounting
- 3 M6x25 bolt

Mounting circulating pump



- 1 Remove retaining clip and discard.
- 2 Original vehicle wire

Removing retaining clip

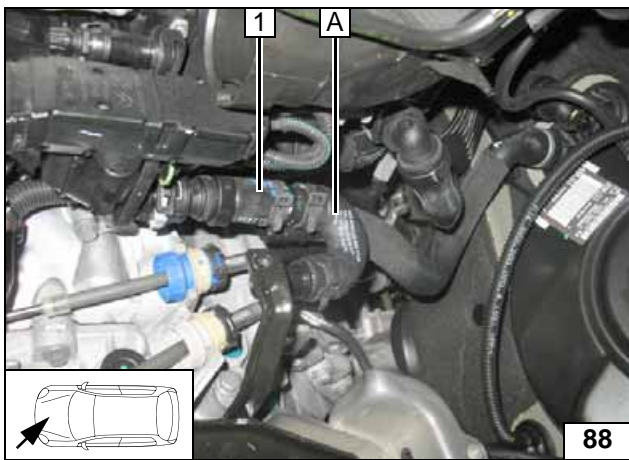


Cut off hose on engine outlet at marking.

- 1 Hose coupling of engine outlet
- 2 Hose section of engine outlet
- 3 Hose section of heat exchanger inlet

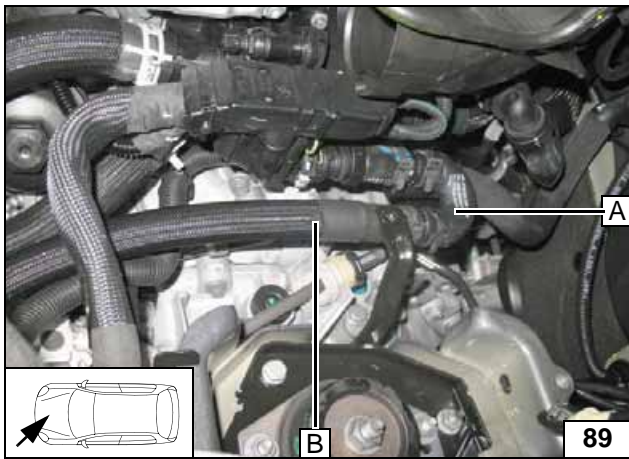


Cutting point

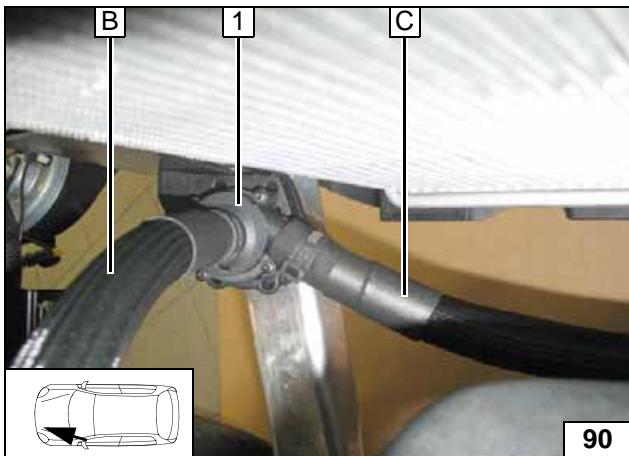


- 1 Hose section of engine outlet

Mounting hose A

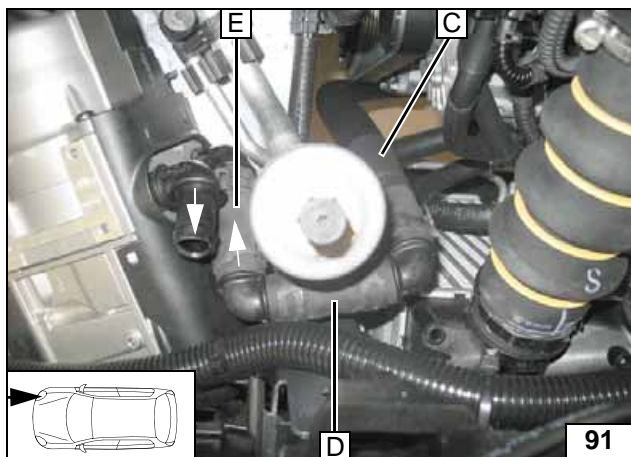


Connecting and routing hose B



- 1 Circulating pump

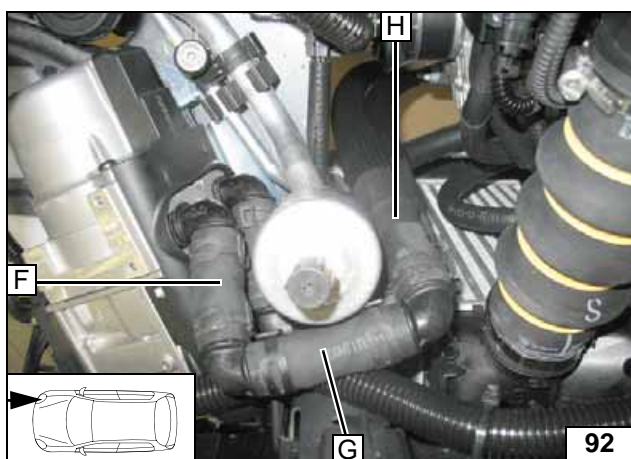
Connection of circulating pump



Align hoses. Ensure sufficient distance from neighbouring components.



Connect-
ing heater



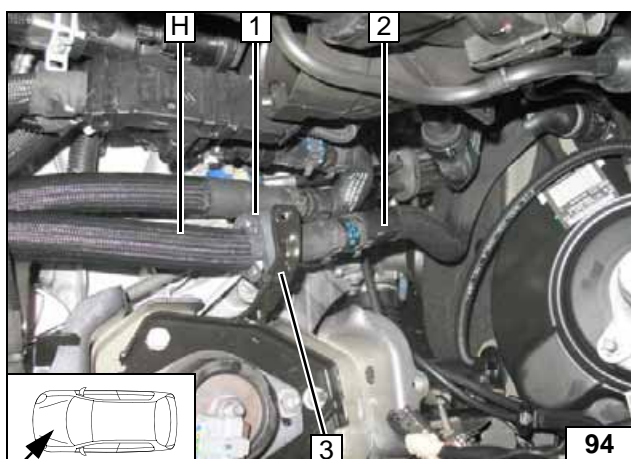
Align hoses. Ensure sufficient distance from neighbouring components.



Connect-
ing heater

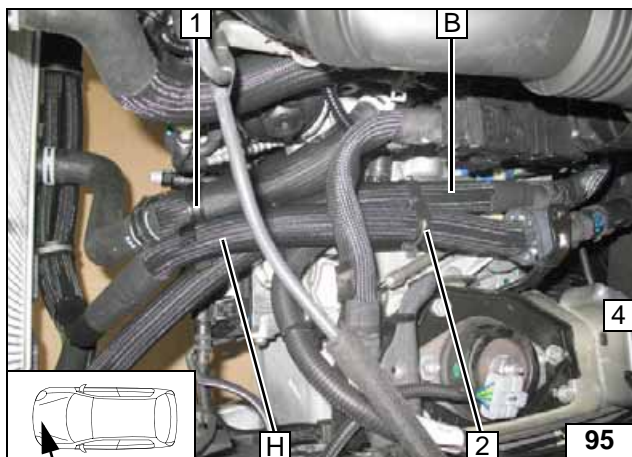


Hose rout-
ing



- 1 Rubber isolator
- 2 Hose section of heat exchanger inlet
- 3 Cable tie

Connect-
ing heat ex-
changer
inlet

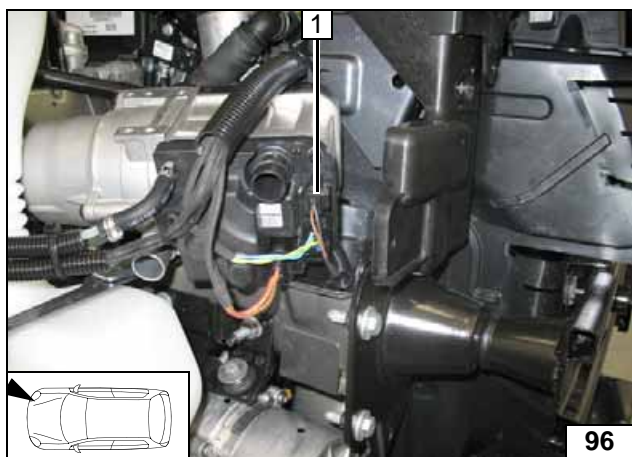


Align hoses. Ensure sufficient distance from neighbouring components.

- 1 Hose bracket
- 2 Hose bracket

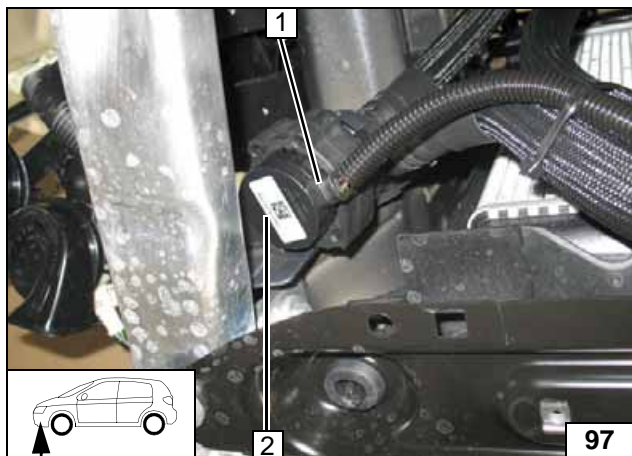


Hose routing



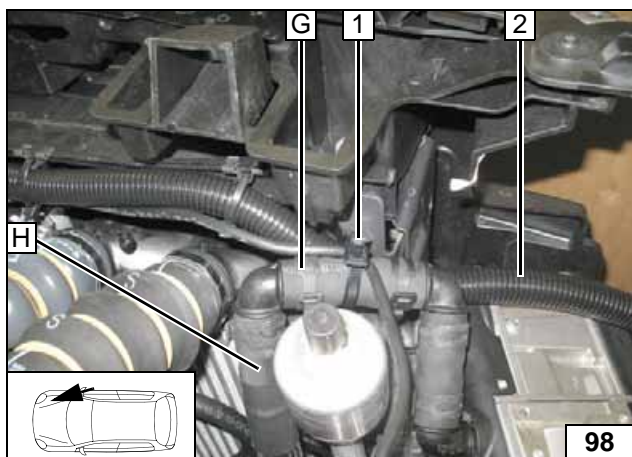
- 1 Connector of circulating pump wiring harness

Mounting wiring harness



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

Mounting wiring harness

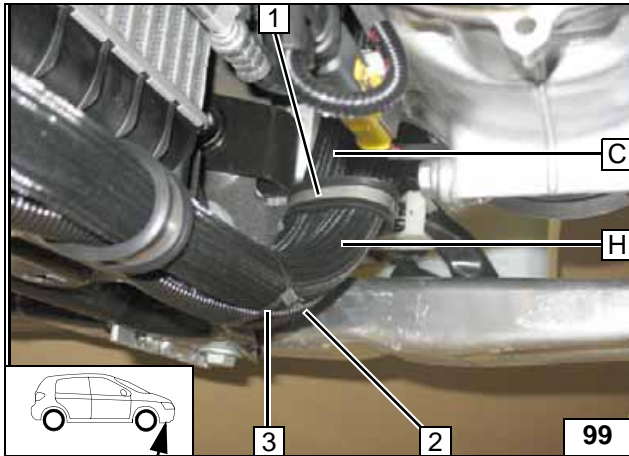


Align hoses. Ensure sufficient distance from neighbouring components.

- 1 Clip-type cable tie, existing hole
- 2 Wiring harness of heater in 10mm dia. corrugated tube

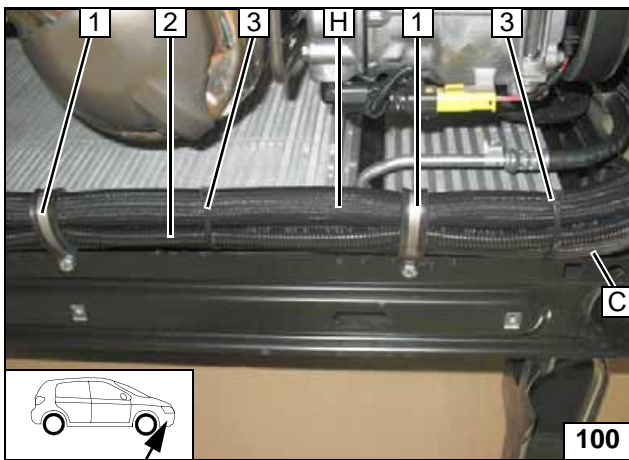


Hose routing



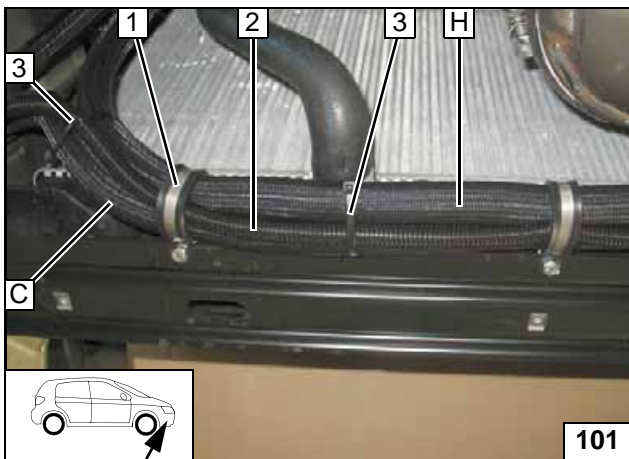
- 1 M6x20 bolt, original vehicle hole, flanged nut, 48mm dia. rubber-coated p-clamp
- 2 Wiring harness of circulating pump in corrugated tube
- 3 Cable tie

Hose routing



- 1 M6x20 bolt, flanged nut, 48mm dia. rubber-coated p-clamp
- 2 Wiring harness of circulating pump in corrugated tube
- 3 Cable tie [2x]

Hose routing



- 1 M6x20 bolt, flanged nut, 48mm dia. rubber-coated p-clamp
- 2 Wiring harness of circulating pump in corrugated tube
- 3 Cable tie [2x]

Hose routing



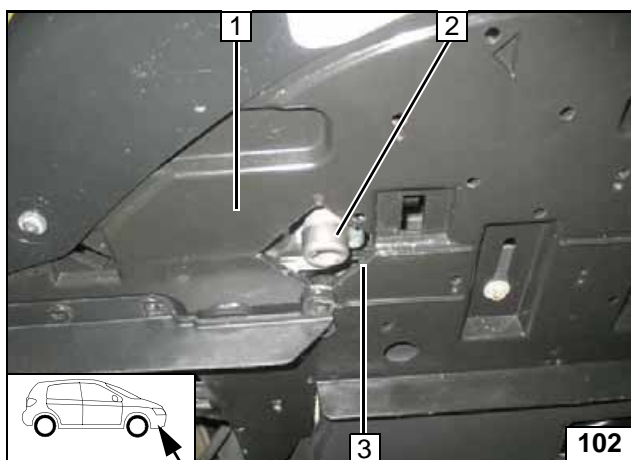
Final Work

WARNING!

Reassemble the disassembled components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate all loose wires and tie back. Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).



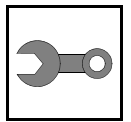
- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Program MultiControl CAR, teach telestart transmitter.
- Settings on the A/C control panel are not required.
- Place caution label "Switch off parking heater before refuelling" in the area of the filler neck.
- For initial startup and function check, please see installation instructions.



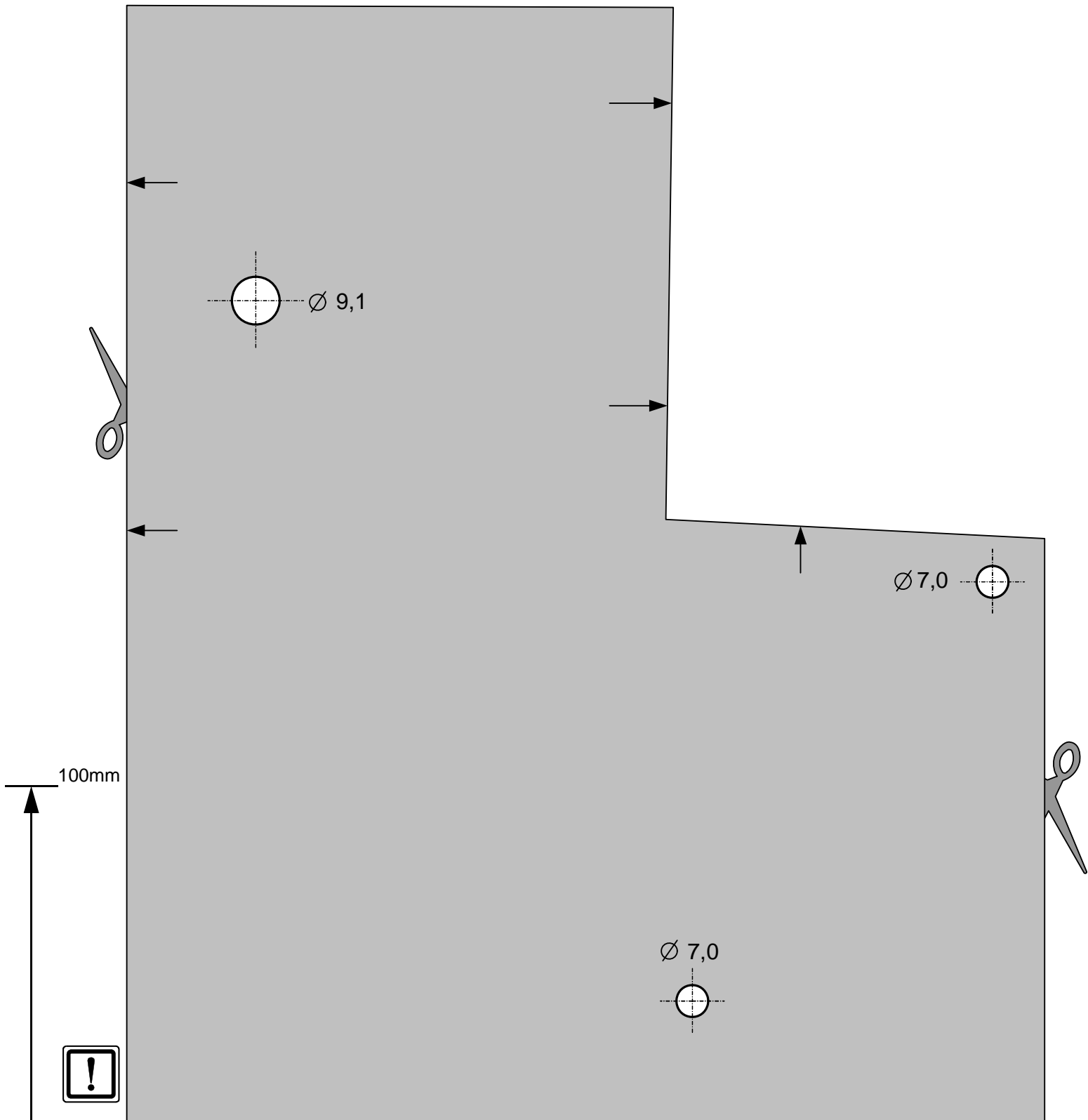
- 1 Underdrive protection
- 2 Exhaust end section
- 3 Cutout in underdrive protection

Mounting
underdrive
protection

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



Template of Bracket Hole Pattern

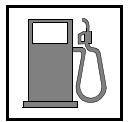


Scale 1:1

Compare size of the printed version with dimension lines.

Permitted tolerance a maximum of 2%.

Set the printer settings to "no margin" or "minimise margins" and 100% of the normal size.

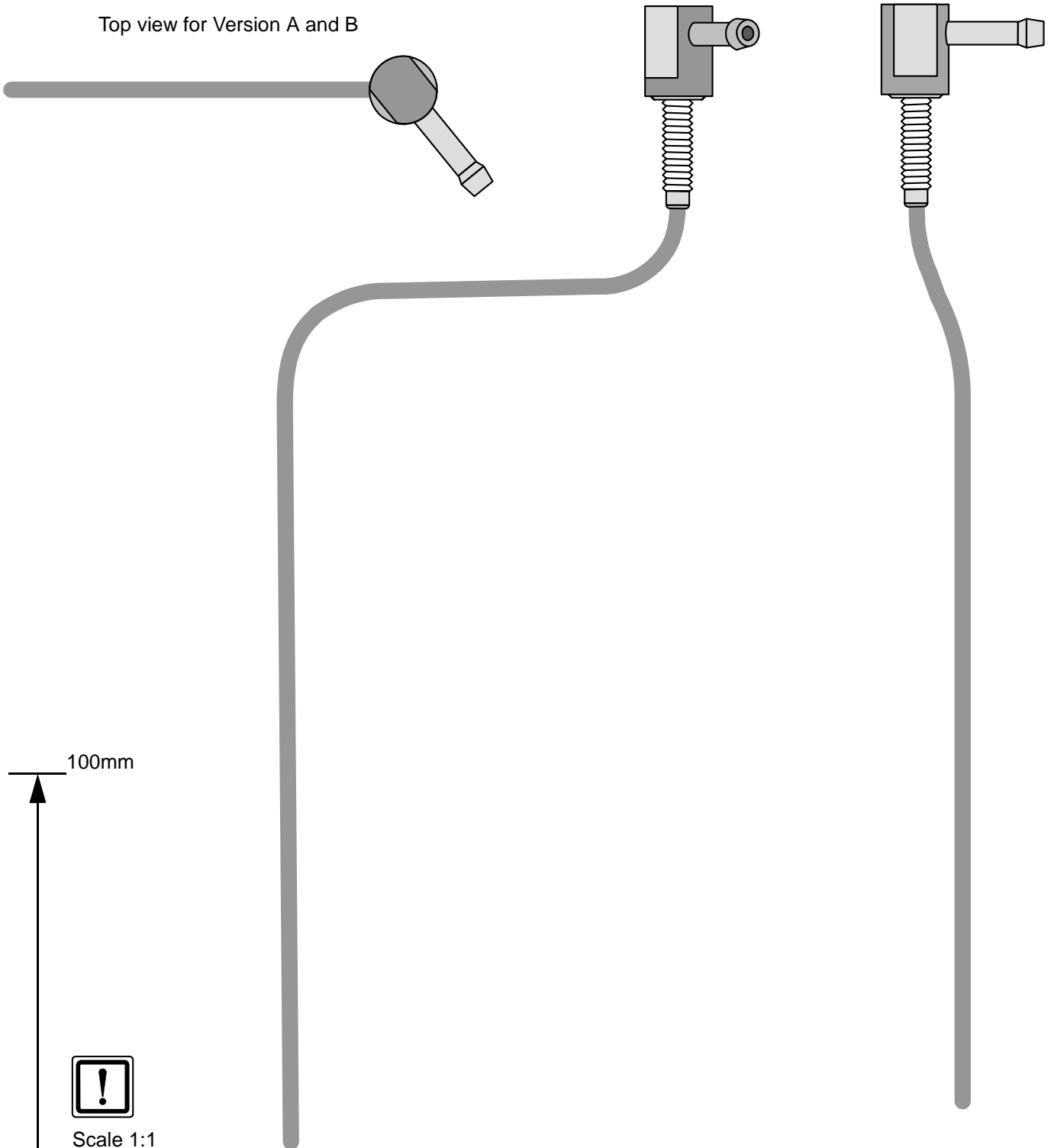


Template for Fuel Standpipe

for Version A and B

for Version C

Top view for Version A and B



Scale 1:1

Compare size of the printed version with dimension lines.
Permitted tolerance a maximum of 2%.

Set the printer settings to "no margin" or "minimise margins" and 100% of the normal size.

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

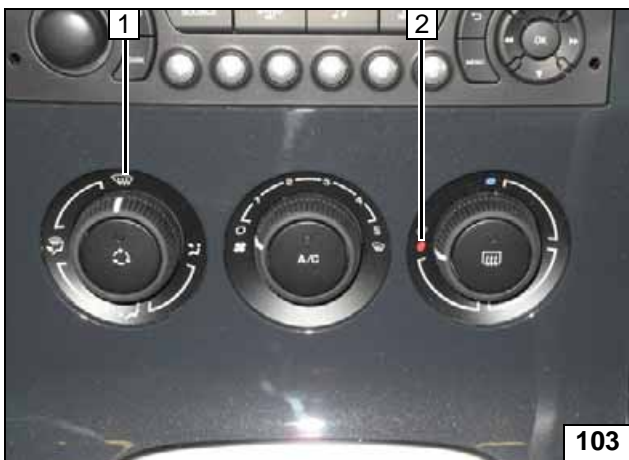
Example:

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:

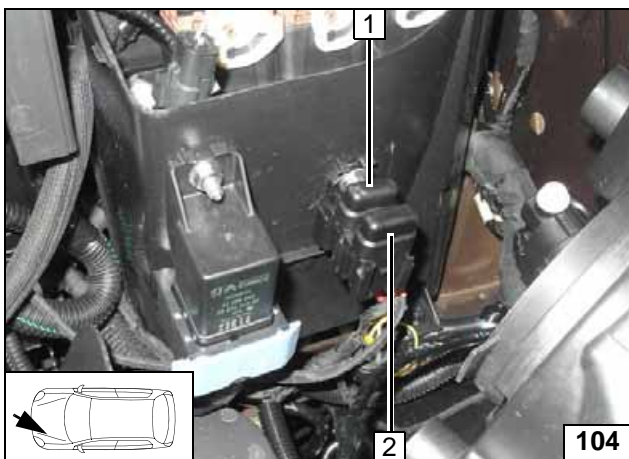


The fan speed does not need to be preset.

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

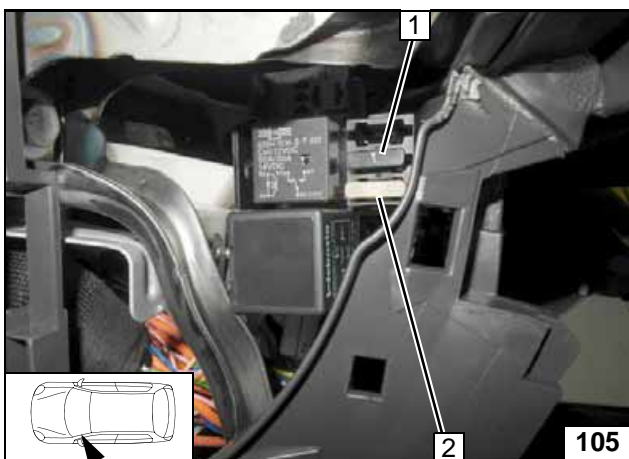


A/C control panel



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

Engine compartment fuses



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

Passenger compartment fuses



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

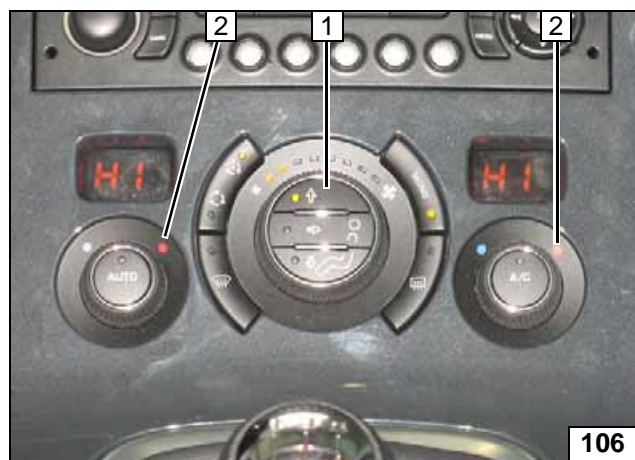
Example:

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:

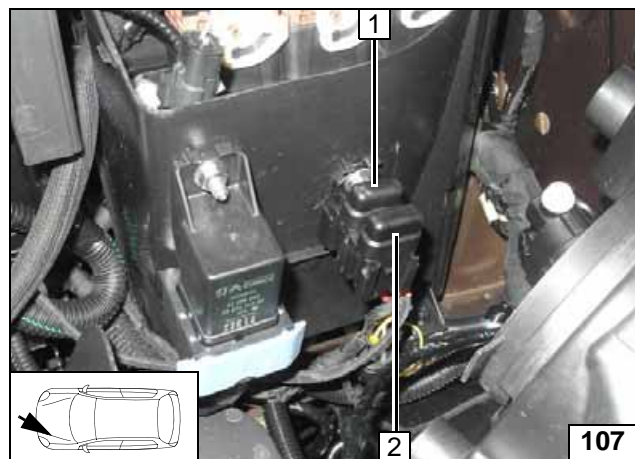


The fan speed does not need to be preset.

- 1 Air outlet faces upward
- 2 Set temperature on both sides to "HI"

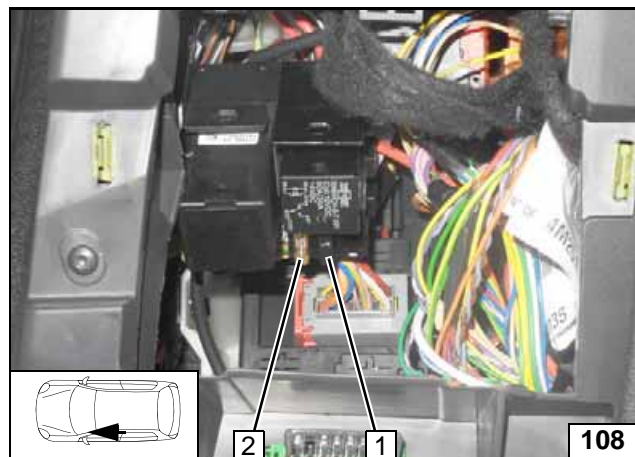


A/C control panel



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

Engine compartment fuses



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

Passenger compartment fuses