

Water Heater Unit



Thermo Top E Additional Heater e1 00 0003

Thermo Top C Additional Heater e1 00 0002

Thermo Top P Additional Heater e1 00 0104

Installation Instructions

Peugeot 3008

Diesel
from Model Year 2009
Left-hand drive vehicle
Manual transmission
Automatic air-conditioning



WARNING!

Hazard warning:

Incorrect installation or repair of Webasto heating systems may cause a fire or result in the emission of carbon monoxide, which can be fatal. Serious or fatal injuries can be caused as a result.



Specialist company training, technical documentation, specialized tools and equipment are required to install and repair Webasto heating and cooling systems. Only genuine Webasto parts may be used. See also Webasto air and water heaters accessories catalogue.

NEVER attempt to install or repair Webasto heating or cooling systems if you have not successfully completed the company training and thereby acquired the required technical skills, or if you do not have access to the required technical documentation, tools and equipment needed to carry out correct installation and repairs.

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

Webasto does not accept any liability for defects and damage that are attributable to installation by untrained staff.

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Validity

Manufacturer	Model	Type	EG-BE No./ABE
Peugeot	3008	OU	e2 * 2001 / 116 * 0377 * ...

Engine type	Engine model	Output in kW	Displacement in cm ³
RHE	Diesel	110	1997

Vehicle and engine types, equipment variants and national specifications not listed in these installation instructions have not been tested. However, installation according to these installation instructions may be possible.

The installation location of the digital timer should be confirmed with the end customer before installation.

Heater Unit/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories <i>Thermo Top E / C / P</i>	See price list
1	Installation kit for Peugeot 3008 2009 Diesel	1315209A
1	Heater control	See price list

Heater unit recommended for the respective vehicle class:

Vehicle	Heater Unit
Compact car	Thermo Top E
Mid-size car, station wagon	Thermo Top C
Full-size car, van, offroader	Thermo Top P

The selection of the heater unit is based on the passenger compartment size of the vehicle and the level of comfort required by the customer!



Foreword

These installation instructions apply to Peugeot 3008 Diesel vehicles - for validity, see page 2 - from model year 2009 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 these installation instructions.

However, the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C/P/E* must always be observed.

The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

General Instructions

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.

Sharp edges must be provided with rub protection (cut-open fuel hose)!

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

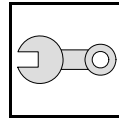
Special Tools

- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit

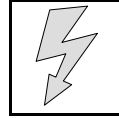
Explanatory Notes on Document

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

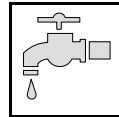
Mechanical system



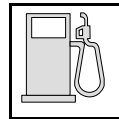
Electrical system



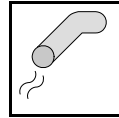
Coolant circuit



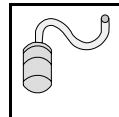
Fuel



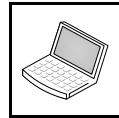
Exhaust gas



Combustion air



Software



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



Specific risk of fire or explosion.



Reference to general installation instructions of Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.



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

All dimensions are in mm!
Tightening torque of hose clamps = 2.0 + 0.5 Nm!
Tightening torque of Ejet screws, Ejet studs = 10 Nm!

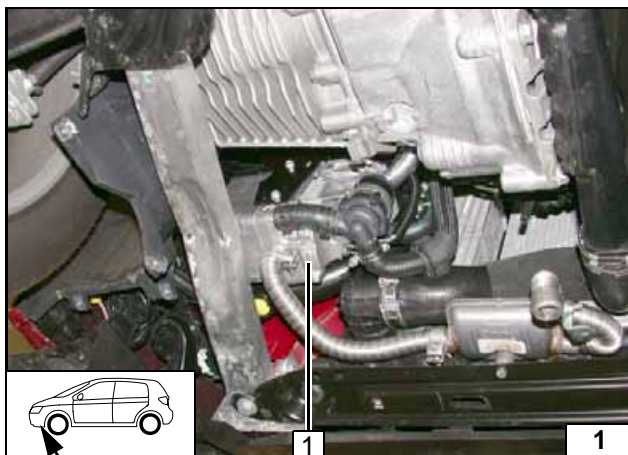
Preliminary Work

WARNING!

- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Open the fuel tank cap and vent the fuel tank.
- Close the tank cap again.
- Remove engine design cover
- Remove air filter box
- Remove charge-air tube with bracket (bolts will be reused)
- Completely remove the battery and the battery carrier.
- Remove front underride protection
- Remove the right rear underride protection.



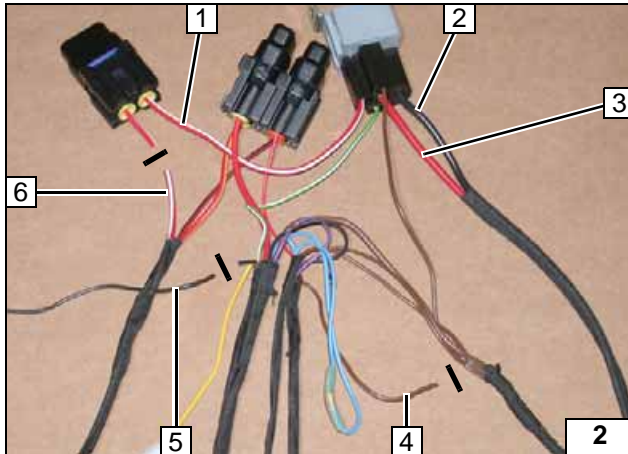
Remove page 24 "Operating Instructions for End Customer" and add to vehicle operating instructions!



Heater unit installation location

1 Heater unit

Installation location



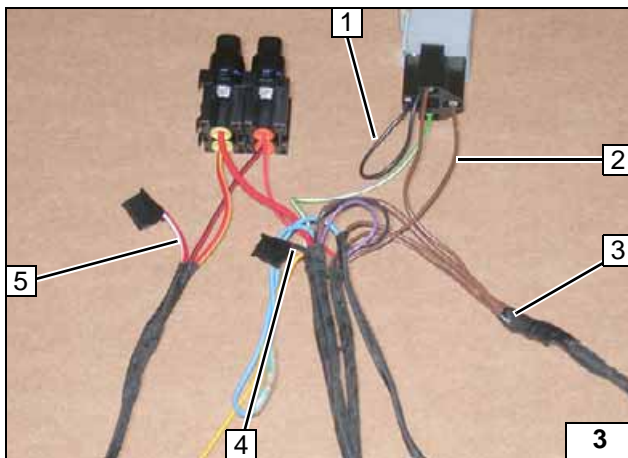
Preparing electrical system

Cut off black (sw) wire 5 (0.75 mm²) from wiring harness of heater unit. Cut off red/white (rt/ws) wire 6 (4 mm²) of fuse F3. Remove insulation from ground wires to node point and cut off brown (br) wire 4 (0.75 mm²) from wiring harness of digital timer.

Remove red/white (rt/ws) wire 1 (4 mm²) from K3/87, red (rt) wire 3 (4 mm²) from K3/87a and black (sw) wire 2 (4 mm²) from K3/30.



Preparing fuse F3 and K3 relay

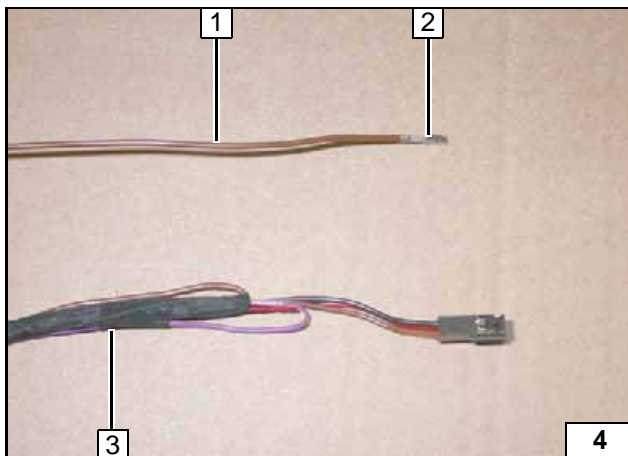


Insulate and tie back ends of red/white (rt/ws) wire 5 and black (sw) wire 4. Insulate ground wires 3.

Insert brown (br) wire 2 (0.75 mm²) from wiring harness of heater controls in K3/30. Also connect black (sw) wire 1 to K3/85 and to K3/87.



Preparing K3 relay



Strip insulation from approx. 500 mm of wiring harness of digital timer 3. Detach 0.75² brown (br) wire 1 from wiring harness, crimp on microtimer and then re-insulate remaining wires!



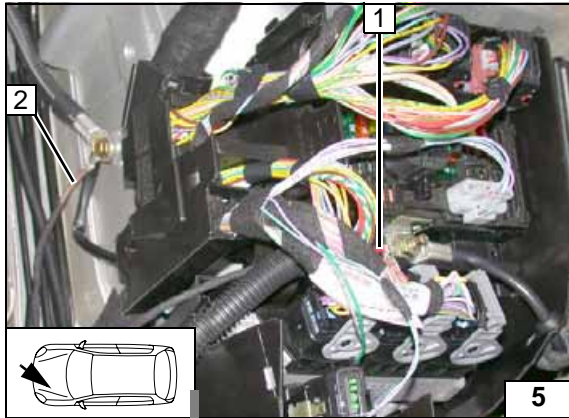
Preparing wiring harness of digital timer



Electrical system

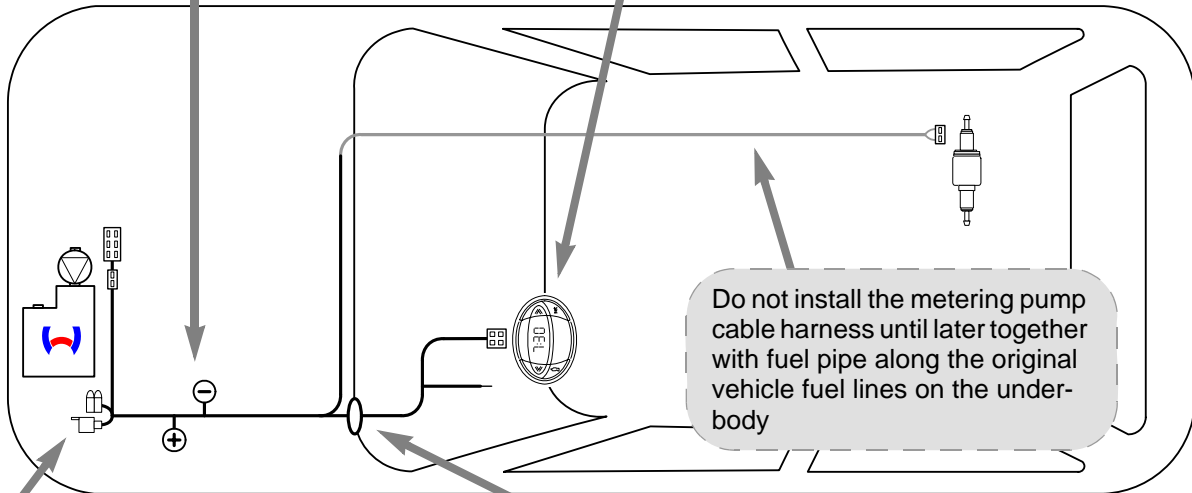
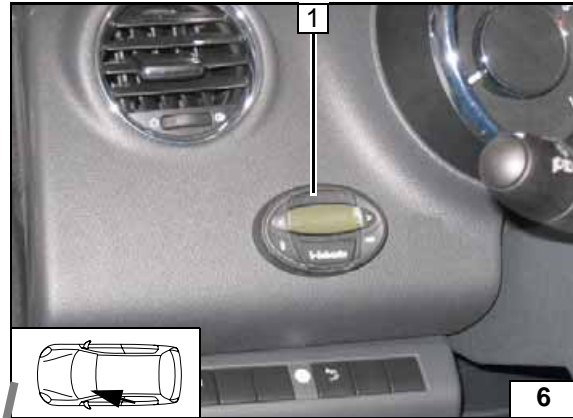
Positive and ground wire

- 1 Positive red (rt) wire on original vehicle positive support point
- 2 Brown (br) ground wire on original vehicle ground support point

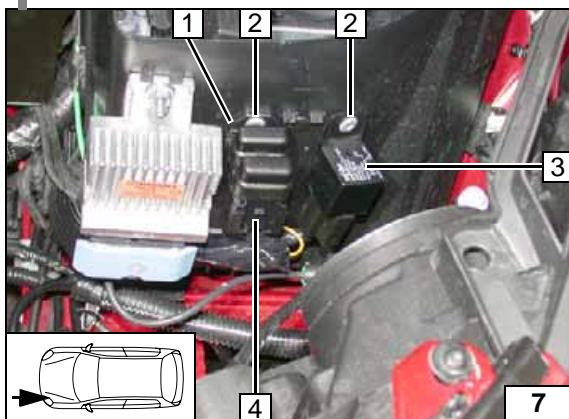


Digital timer

- 1 Digital timer

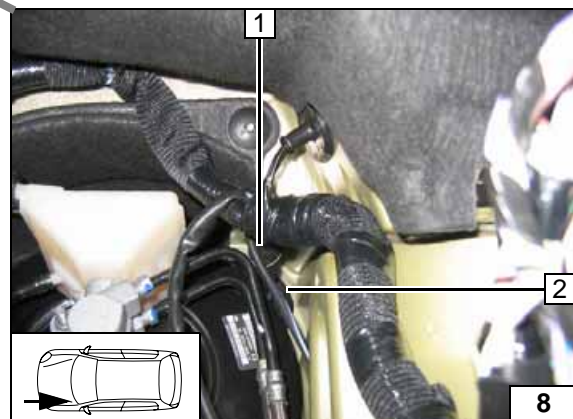


Wiring harness installation diagram



Fuse holder, K3 relay

- 1 Retaining plate for fuse holder
- 2 4 mm dia. hole, 5.5x13 self-tapping screw; plastic nut [2x each]
- 3 K3 relay
- 4 Fuse holder

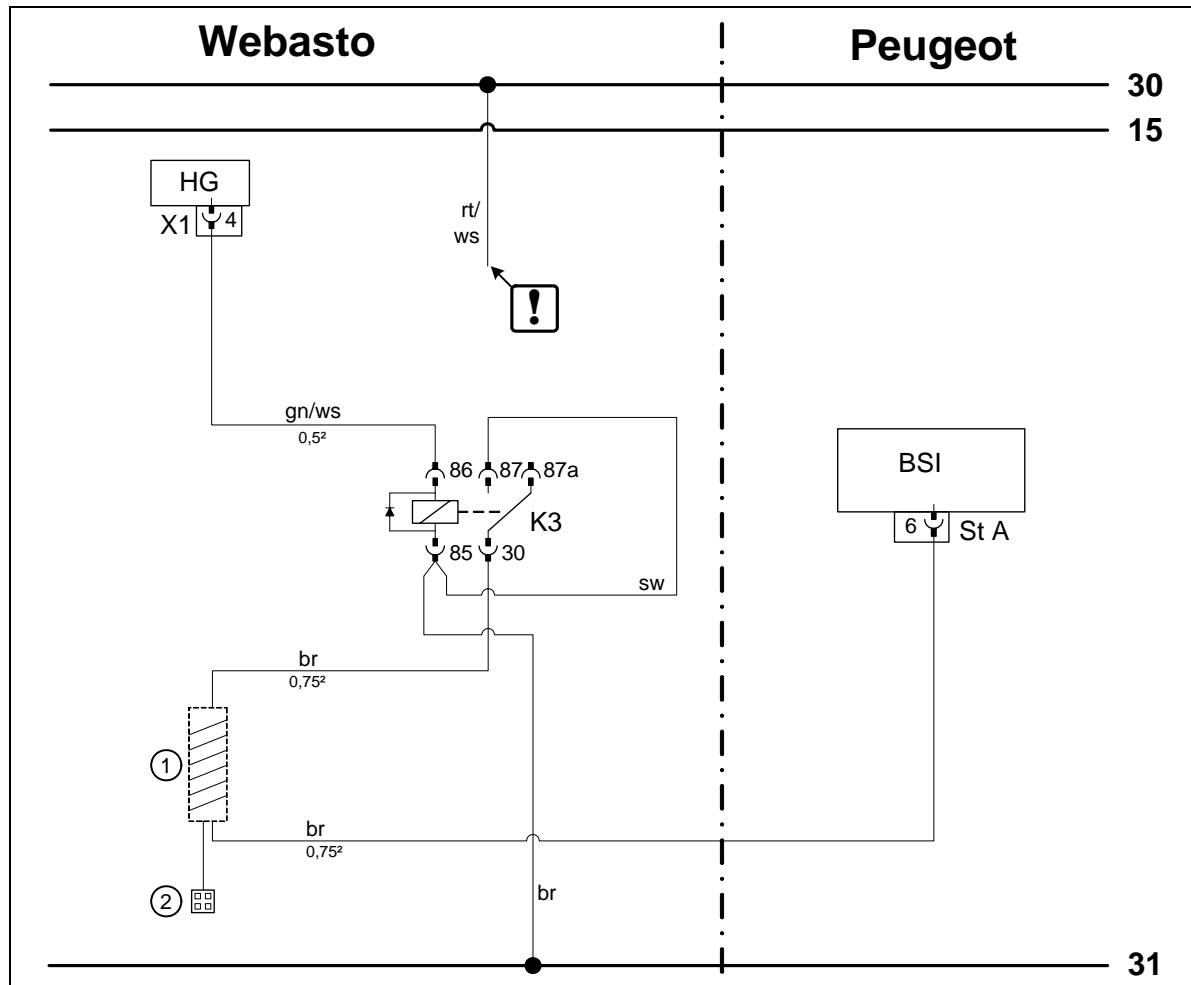


Wiring harness pass through


Route wiring harnesses (digital timer, fan controller and green/white (gn/ws) wire in protective sleeving) on original vehicle wiring harness 1 to protective rubber plug 2 and route into passenger compartment.



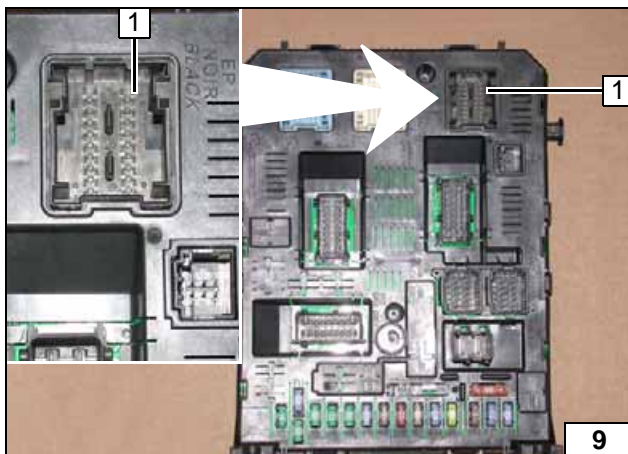
Fan controller



Wiring diagram

Webasto components		Vehicle components		Colors and symbols	
HG	Heater unit TT-C/E	BSI	Central electrical box for passenger compartment	gn	green
K3	Fan relay			ws	white
①	Wiring harness of digital timer	St A	20-pin connector BSI	rt	red
②	Heater control connector			br	brown
				sw	black
					Insulate wire ends and tie back
				Cable and connector colors may vary!	

Legend

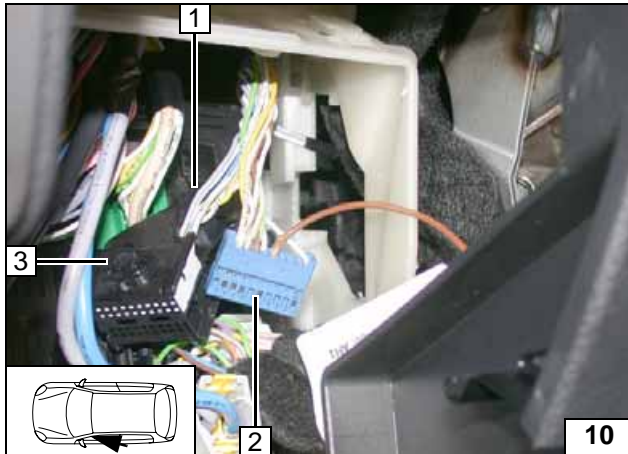


View of BSI.

1 Socket for 2-piece connector. 40-pin



Detaching BSI and routing downward

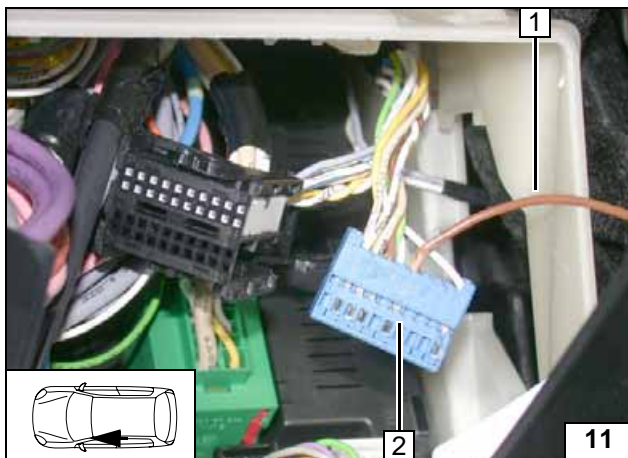


Press in locking lug 1 and fold down bar 3.

2 20-pin blue connector



Pulling connector off BSI and removing

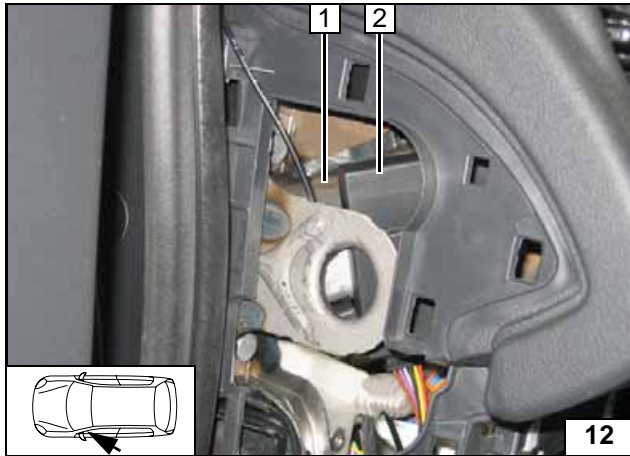


Connection on 20-pin blue (bl) connector 2 from BSI. Insert microtimer from brown (br) wire 1 in PIN 6. Complete BSI connector and mount.

Route wiring harness of digital timer upward to installation location of digital timer. Produce connections as shown in wiring diagram.



Connection of BSI

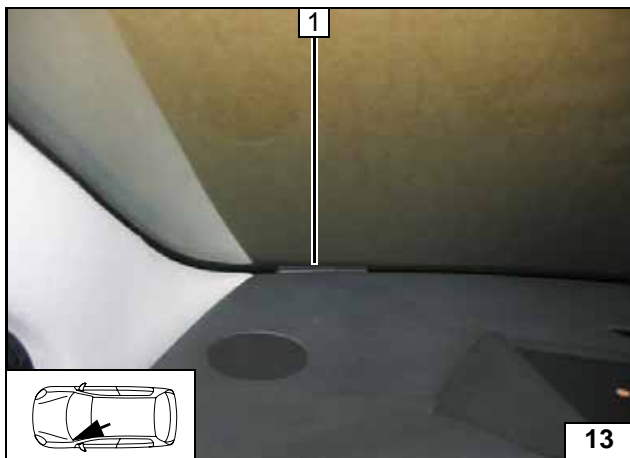


Remote option (Telestart)

Fasten receiver 2 with adhesive tape onto cross member 1!

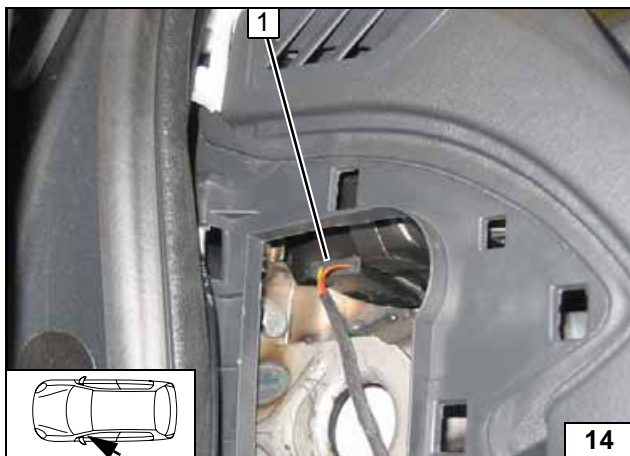


Installing receiver



1 Antenna

Installing antenna

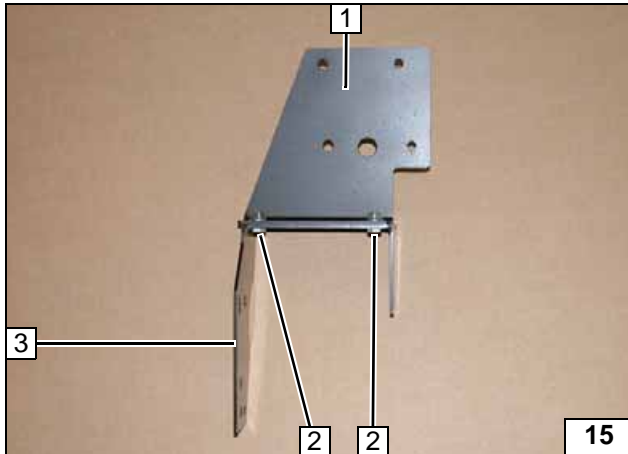
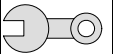


Temperature sensor for HTM100 only

1 Fasten temperature sensor with adhesive tape



Installing temperature sensor

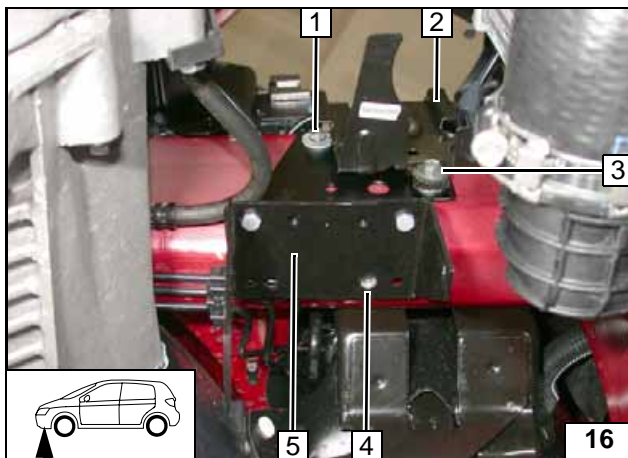


Preparing installation location

- 1 Bracket of Part A
- 2 M6x12 bolt, flanged nut [2x each]
- 3 Bracket of Part B



Preparing bracket

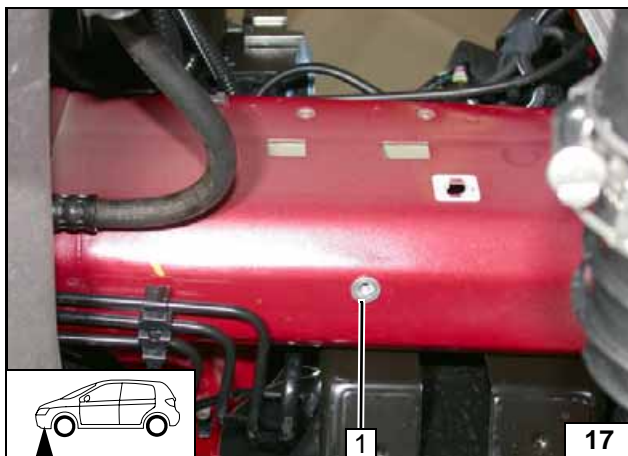


Loosely install bracket (A and B) **5** and bracket of charge-air tube **2**.

- 1 M6x16 bolt, spring lockwasher, large diameter washer on existing threaded hole
- 3 Original vehicle bolt
- 4 Copy hole pattern



Copying hole pattern

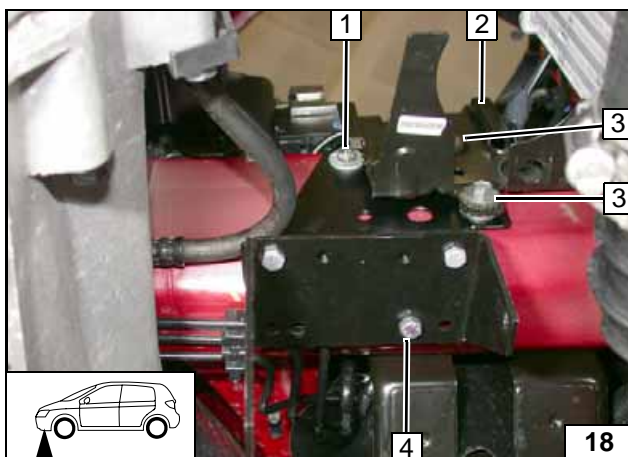


Remove bracket (A+B) and bracket of charge-air tube!

- 1 Drill 9.1 mm dia. hole; rivet nut



Installing rivet nut

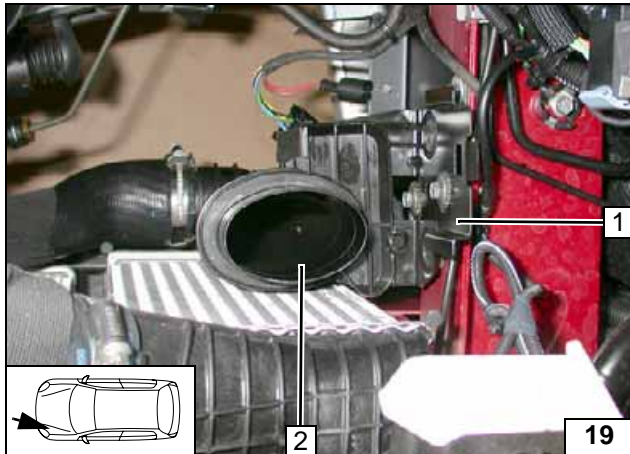
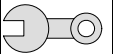


Mount bracket of charge-air tube **2** with original vehicle bolts **3**. Insert M8x15 spacer nut between bracket (B) and frame side member at position **4**.

- 1 M6x16 bolt, spring lockwasher, large diameter washer on existing threaded hole
- 4 M6x30 bolt, spring lockwasher, M8x15 spacer nut



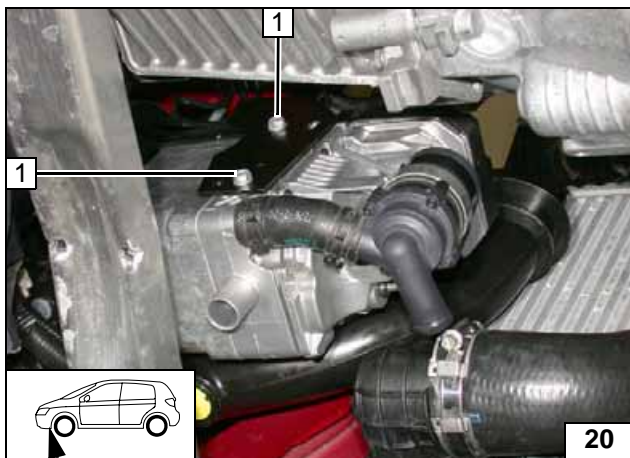
Installing bracket



Installing heater unit

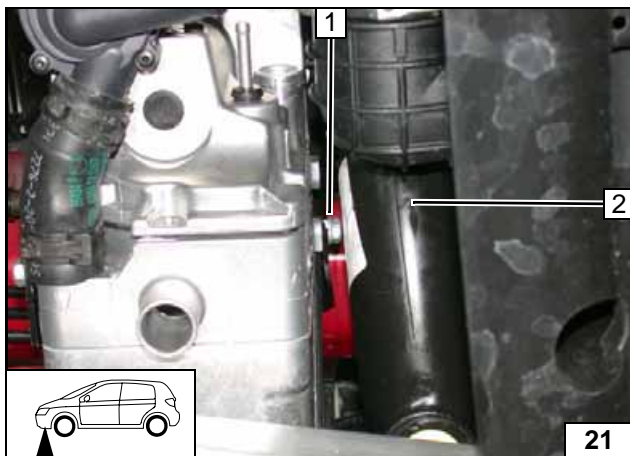
- 1 Bracket of charge-air tube
- 2 Charge-air tube

Installing charge-air tube



- 1 E-jot screw [2x]

Installing heater unit

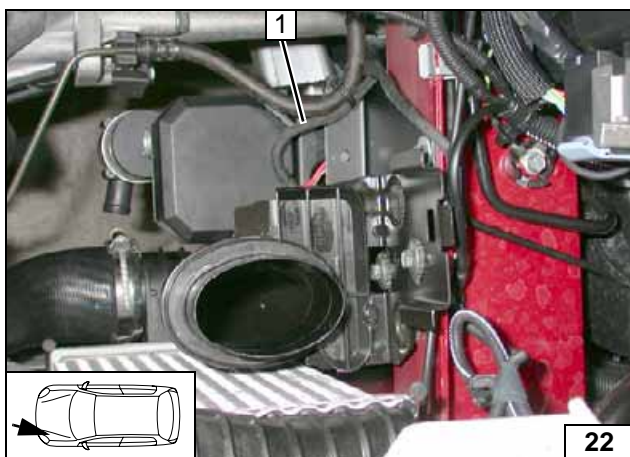


Ensure sufficient distance to charge-air tube 2!

- 1 E-jot screw

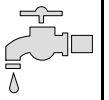


Installing heater unit



- 1 Wiring harness of heater unit

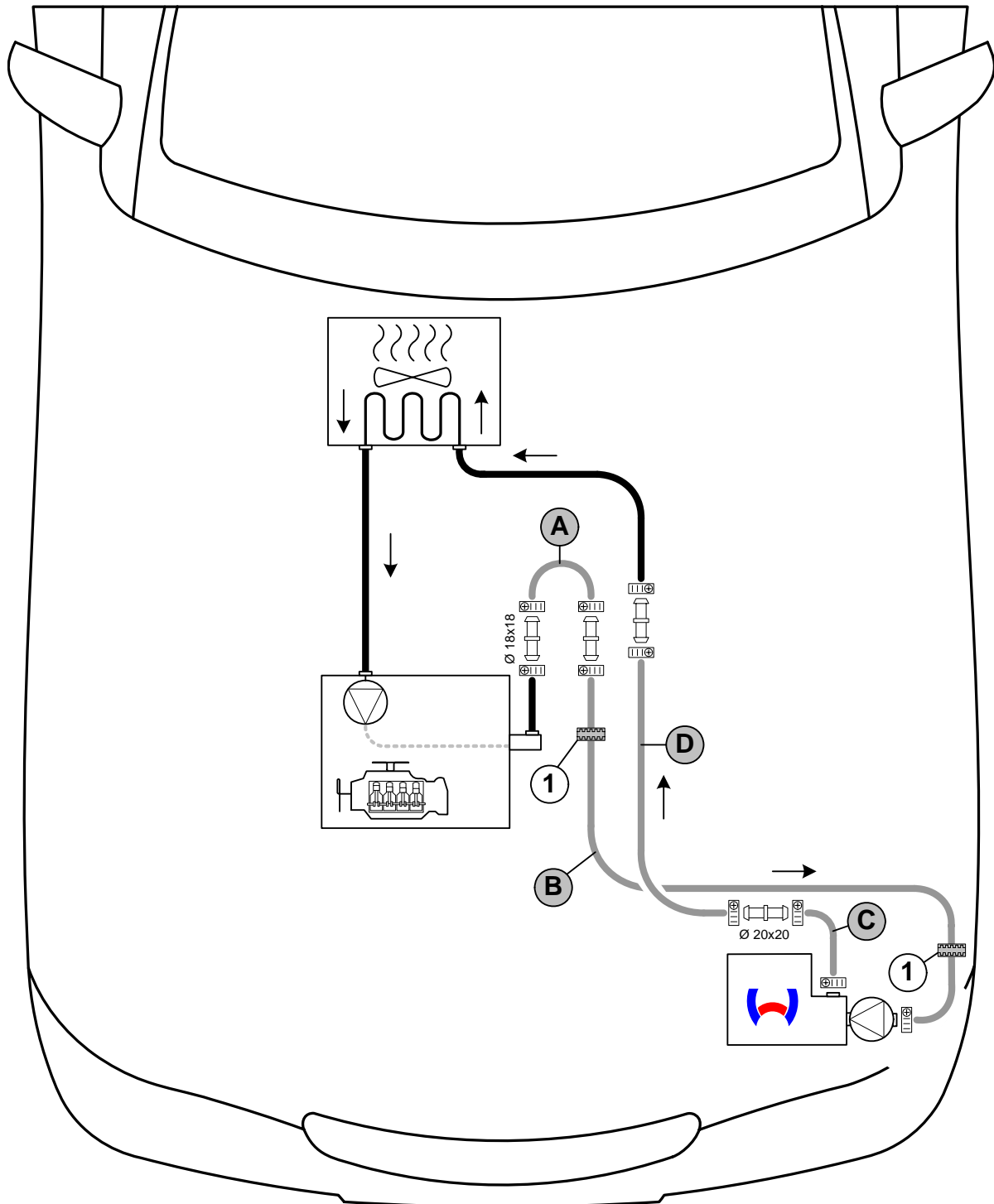
Connecting wiring harness






Coolant circuit

WARNING!

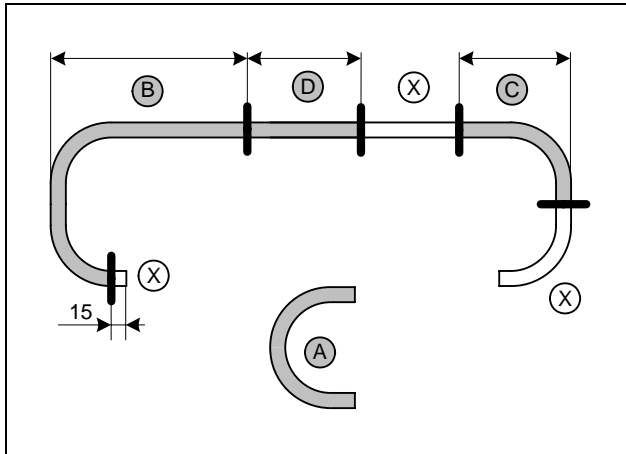
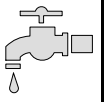
Any coolant running off should be collected using an appropriate container!
 Route coolant hoses kink-free! Unless specified otherwise, always fasten using cable ties.
 Position clamps so that no other hose can be damaged!
 When installing the coolant hose, the heater unit must be filled with coolant.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



Coolant routing diagram

All hose clamps  = 20-27 mm dia.!
 All connecting pipes without a specific designation  = dia. 18x20.
 1 = Black (sw) rubber isolator .



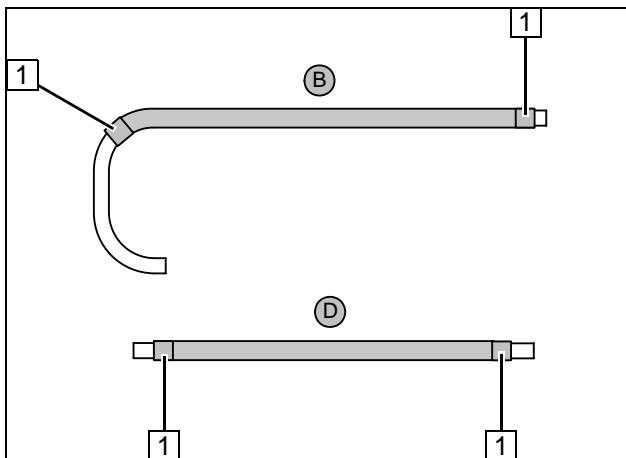


Hose **A** = 180° (18x18) molded hose
Discard section **X**

- B** = 630
- C** = 130
- D** = 500



Cutting coolant hoses to length



Push braided protection hoses onto hose **B** and **D** and cut to length.
Cut heat shrink plastic tubing to length and shrink to size.

- 1** 50 mm long heat shrink plastic tubing [4x]



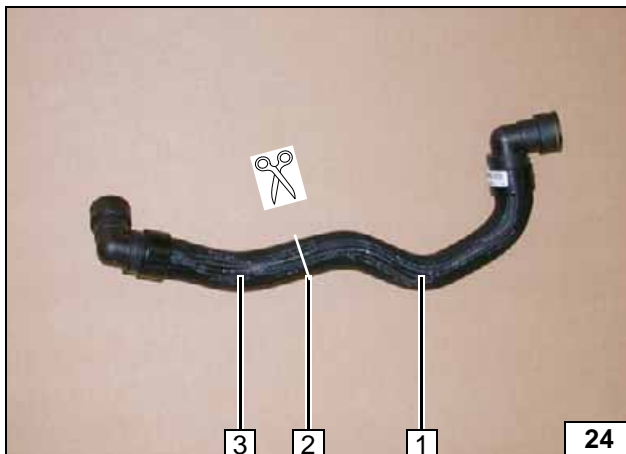
Preparing coolant hoses



Remove original vehicle hose on engine outlet/heat exchanger inlet **1**.



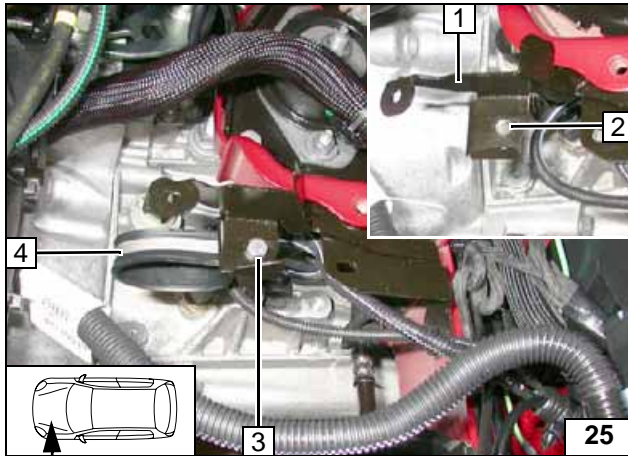
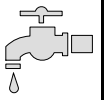
Cutting point



Remove braided protection hose in area of cutting point **2**. Remount hose section of heat exchanger inlet **1** and hose section engine outlet **3**!



Separating hose

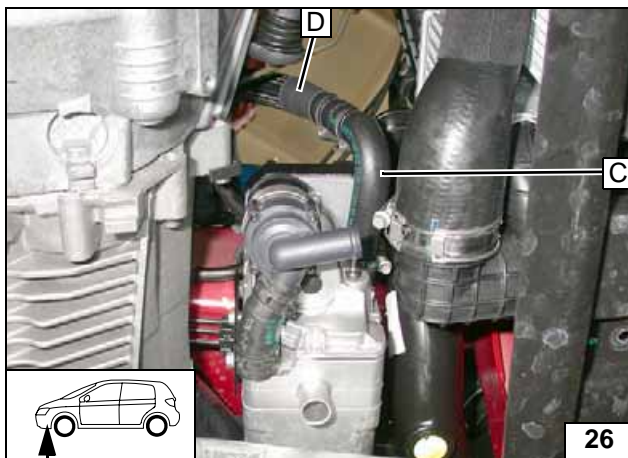


7 mm dia. hole at position 2 in original vehicle bracket 1!

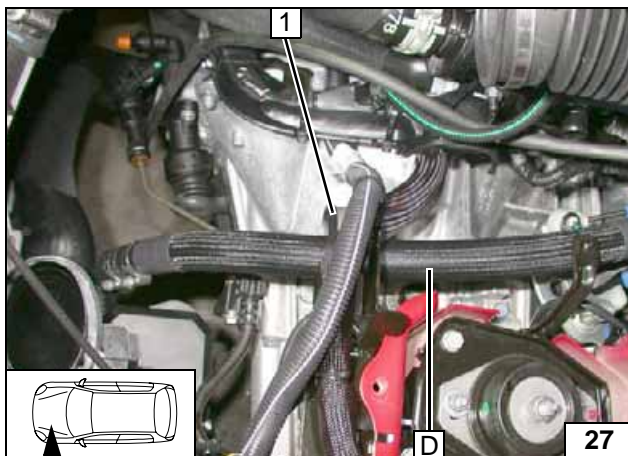
- 3 M6x20 bolt, flanged nut
- 4 48 mm dia. rubber-coated p-clamp



Installing p-clamp



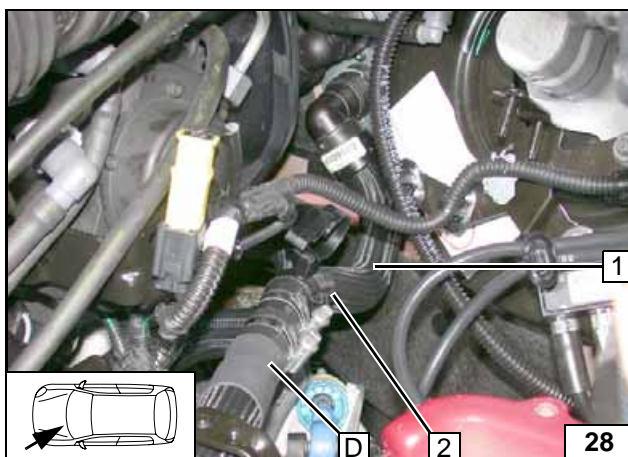
Connect-
ing heater
unit outlet



Route hose **D** through 48 mm dia. rubber-coated p-clamp 1.

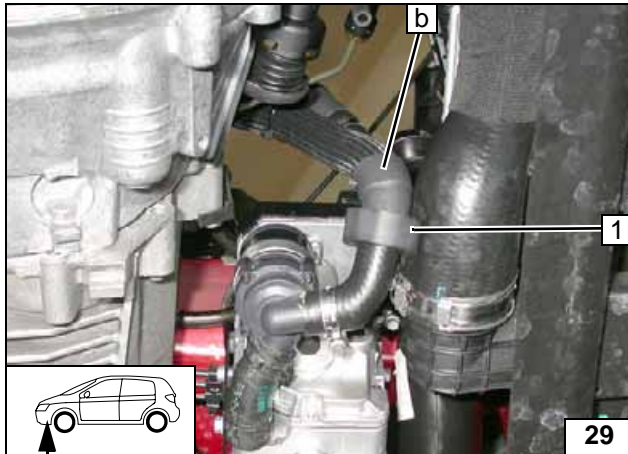
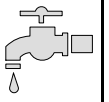


Routing in
engine
compartment



- 1 Hose on heat exchanger inlet
- 2 Insert spacer bracket

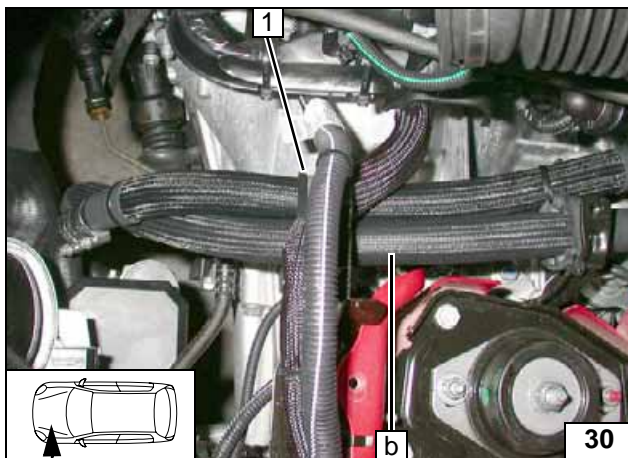
Connect-
ing heat
exchanger
inlet



Push black (sw) rubber isolator **1** onto hose **B** and align on charge-air tube.



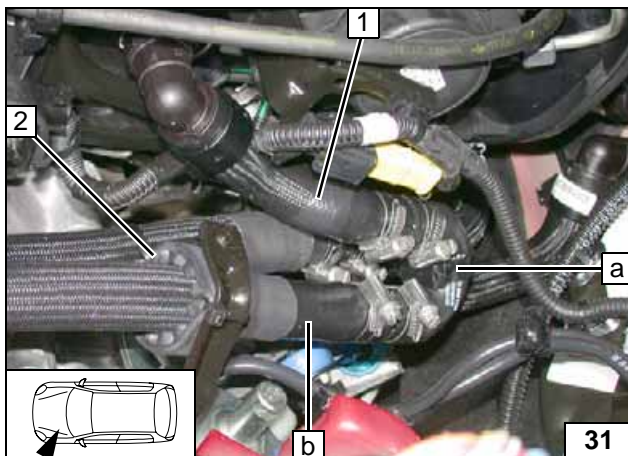
Connect-
ing heater
unit inlet



Route hose **B** through 48 mm dia. rubber-coated p-clamp **1**.



Routing in
engine
compartment

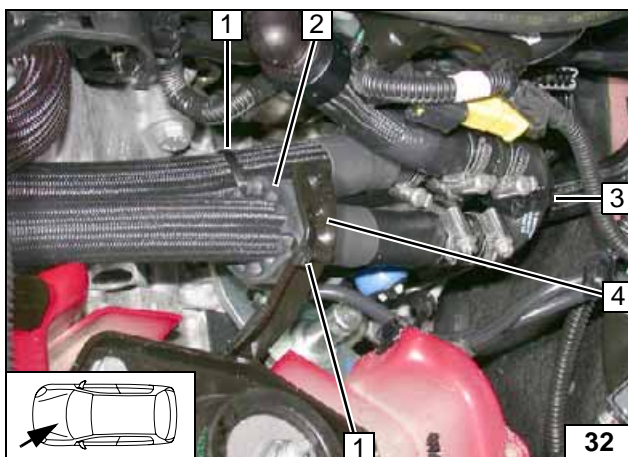


Push black (sw) rubber isolator **2** onto hose **B**.



Connect-
ing engine
outlet

1 Engine-outlet hose section



Mount black (sw) rubber isolator **2** to original vehicle bracket **4**. Ensure sufficient distance to adjacent components; correct if necessary.



Connect-
ing engine
outlet

1 Cable tie [2x]
2 Insert spacer bracket



Fuel

CAUTION!

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

Catch any fuel running off with an appropriate container.

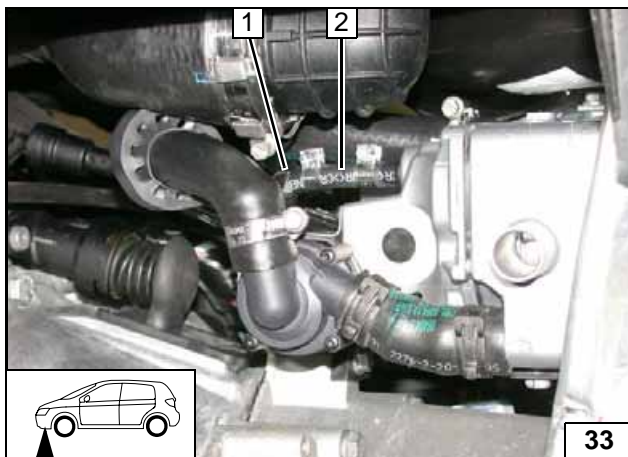
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

WARNING!

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



**Conne-
ction on
heater unit**



Route fuel line **1** in 2,100 mm corrugated tube to firewall.

2 Hose section, 10 mm dia. clamp [2x]



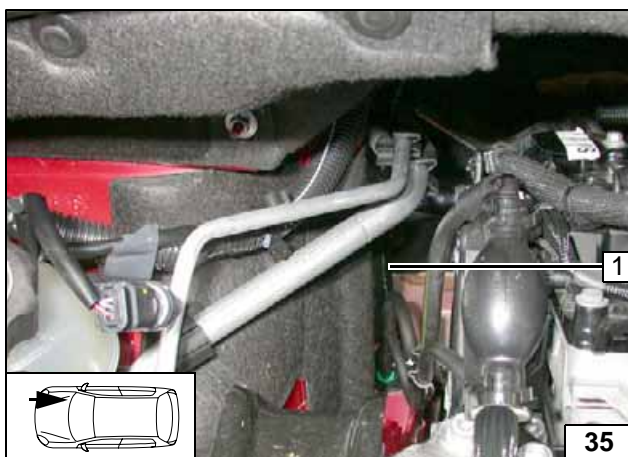
**Installing
lines**



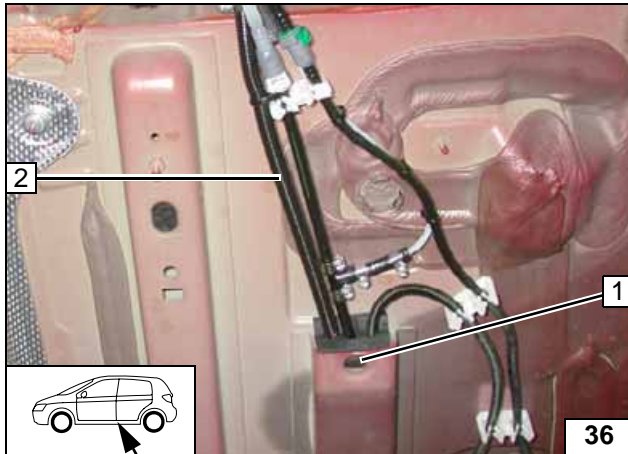
Separate corrugated tube at position **1**. Route fuel line together with wiring harness of metering pump **2** in corrugated tube to right-hand side of vehicle.



**Installing
lines**



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

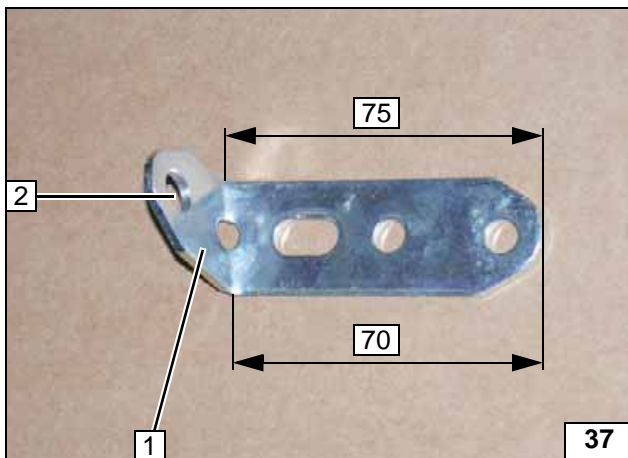


Route fuel line and wiring harness of metering pump 2 in corrugated tube to installation location of metering pump.

- 1 Line duct



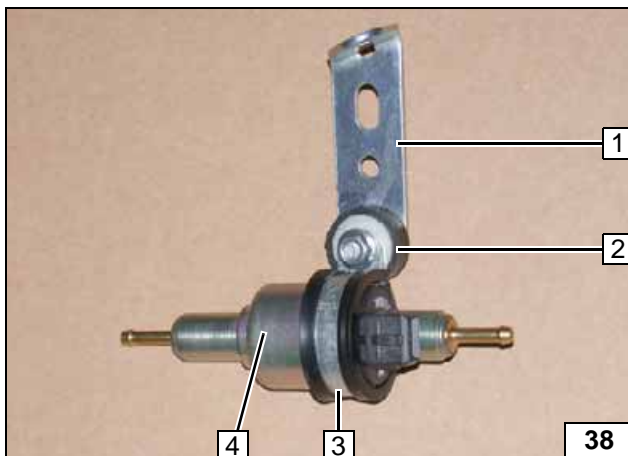
Installing lines



Angle down perforated bracket 1 by approx. 85° and drill out to 8.5 mm dia. at position 2.

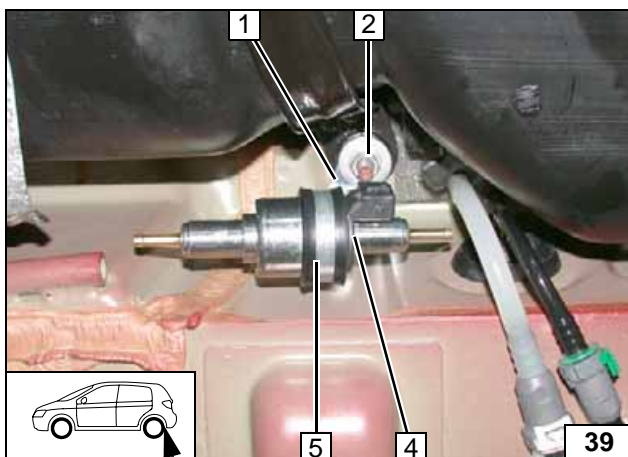


Preparing perforated bracket



- 1 Perforated bracket
- 2 Silent block, flanged nut [2x]
- 3 Rubber-coated pipe clamp
- 4 Metering pump

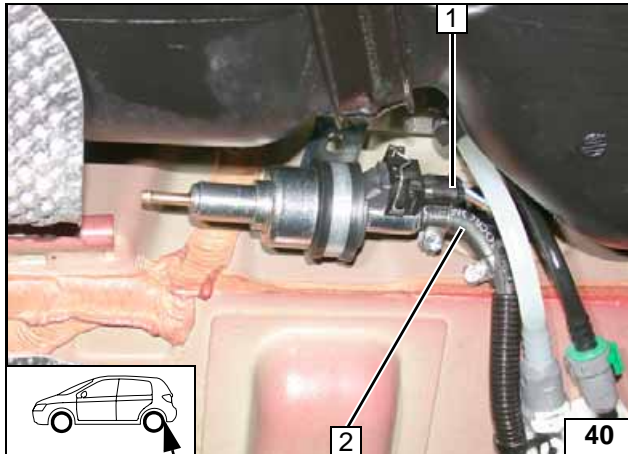
Preparing metering pump



- 1 Perforated bracket
- 2 Original vehicle stud bolt, original vehicle nut



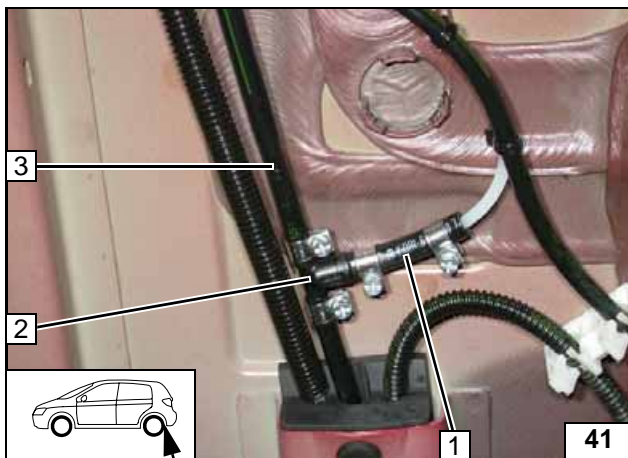
Installing metering pump



- 1 Wiring harness of metering pump, connector mounted
- 2 Fuel line from heater unit, hose section, 10 mm dia. clamp [2x]



Connect-
ing to me-
tering
pump

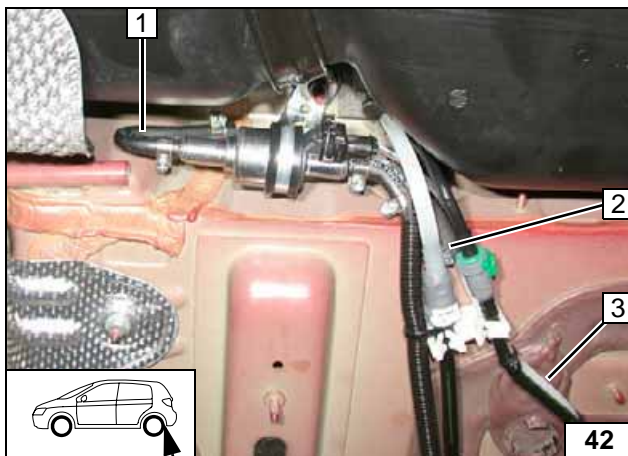


Cut off fuel supply line **3** at Position **2**.

- 1 Hose section, 10 mm dia. clamp [2x]
- 2 8x5x8 fuel standpipe, 10 mm dia. clamp [2x]



Removing
fuel

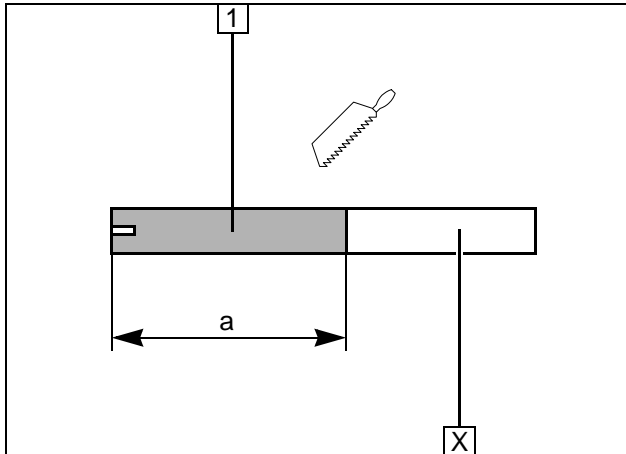
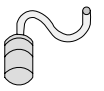


Push fabric protective hose **2** onto fuel line of T-piece **3**. Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1 180° molded hose, 10 mm dia. clamp [2x]



Connect-
ing to me-
tering
pump

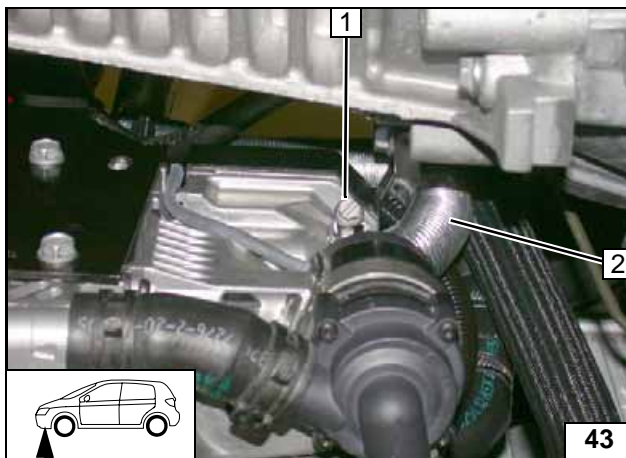


Combustion air

- 1 Combustion air pipe
a = 320

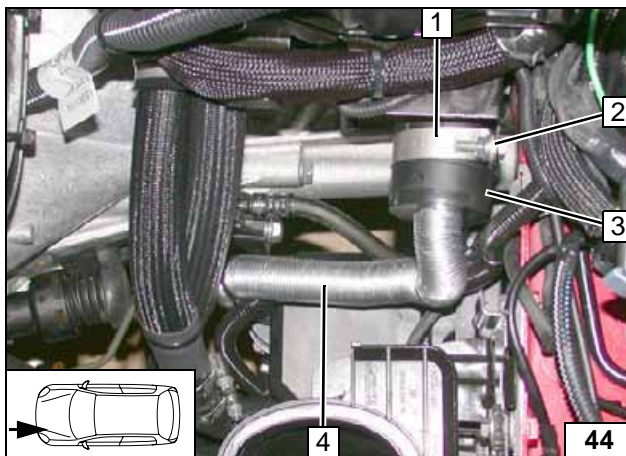
Discard section X

Cutting combustion air pipe to length



- 1 27 mm dia. clamp
- 2 Combustion air pipe

Installing combustion air pipe

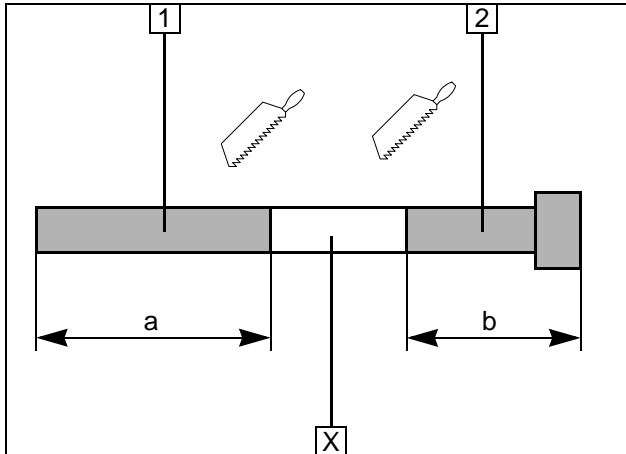
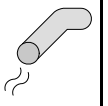


Remove rubber coating from p-clamp

- 1 P-clamp 48 mm dia. hole
- 2 M6x20 bolt, flanged nut, existing hole
- 3 Muffler
- 4 Combustion air pipe



Installing muffler

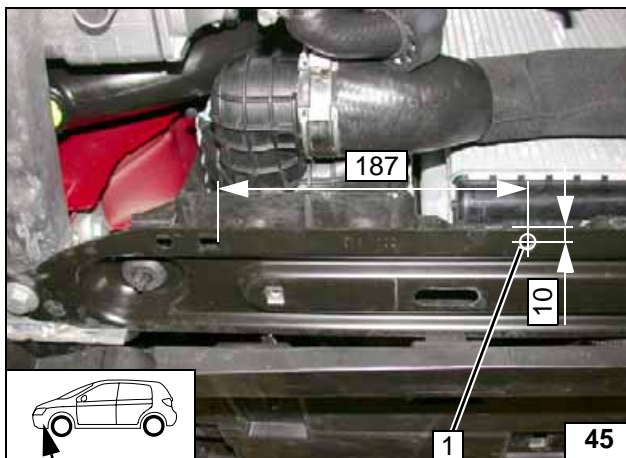


Exhaust gas

- 1 Exhaust pipe
a = 290
- 2 Exhaust end section
b = 250



Preparing exhaust pipe

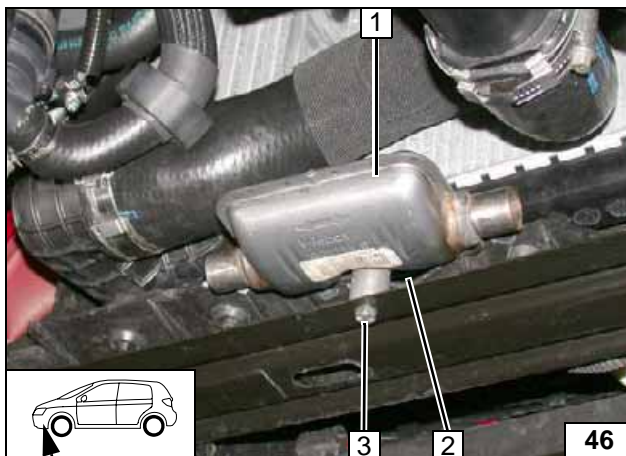


When drilling, watch components located behind!

- 1 7 mm dia. hole

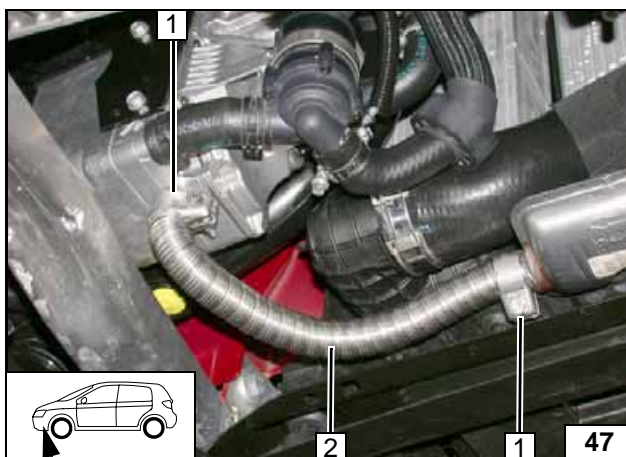


Drilling hole in cross member



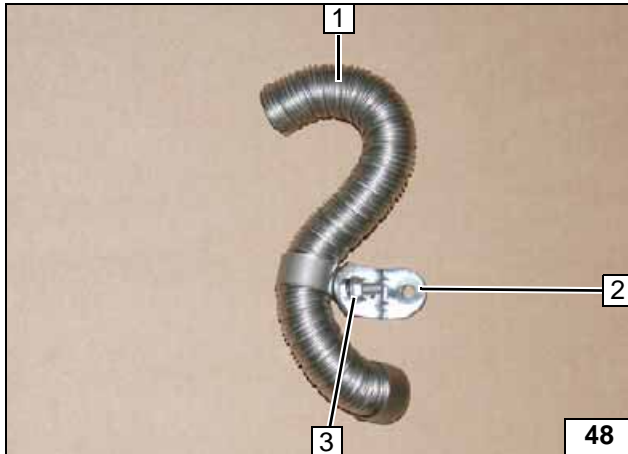
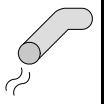
- 1 Muffler
- 2 M6x50 bolt, spring lockwasher, 30 mm shim, flanged nut

Installing muffler



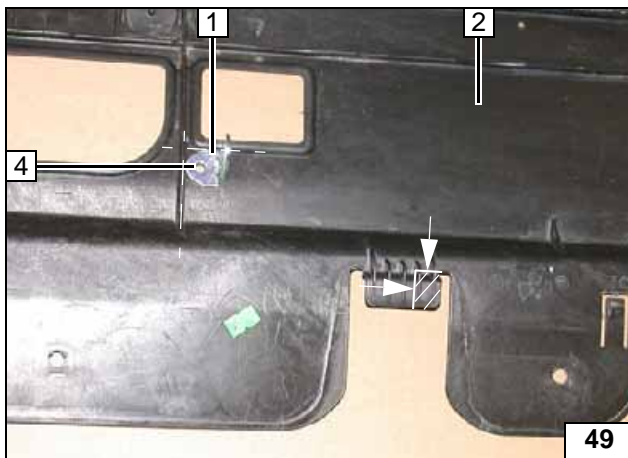
- 1 Hose clamp [2x]
- 2 Exhaust pipe

Installing exhaust pipe



- 1 Exhaust end section
- 2 Angle bracket
- 3 M6x20 bolt, p-clamp, flanged nut

Preparing exhaust pipe

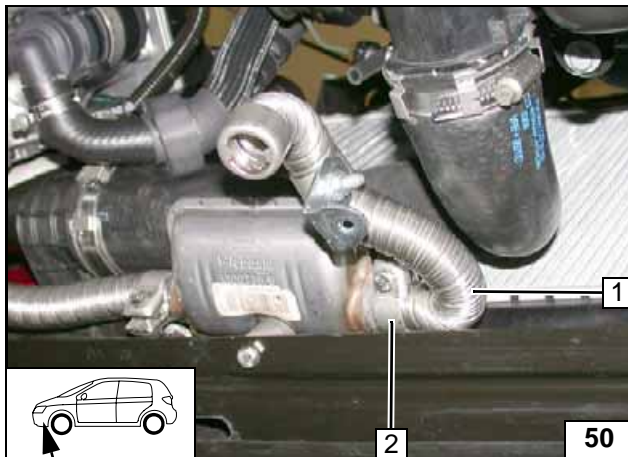


Angle bracket 1 placed flush and copy hole pattern 4 to underside protection 2. Cut out underside protection 2 on marking at position 3.

- 3 Discard section
- 4 7 mm dia. hole

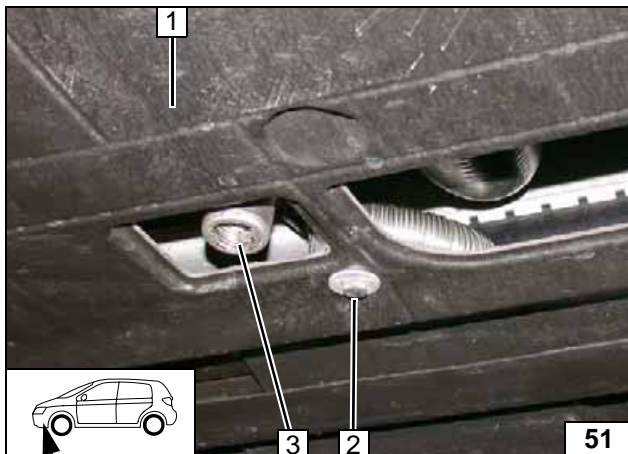


Preparing underside protection



- 1 Exhaust pipe
- 2 Hose clamp

Installing exhaust end section

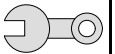


Mount underside protection 1. Align exhaust end section 3 centered in cut-out and flush with underside protection 1.

- 2 M6x20 bolt, large diameter washer, flanged nut



Installing exhaust end section



Final Work

WARNING!

Mount removed parts in reverse order.

Check all hoses, clamps and all electrical connections for firm seating.

Secure all loose cables using cable ties.

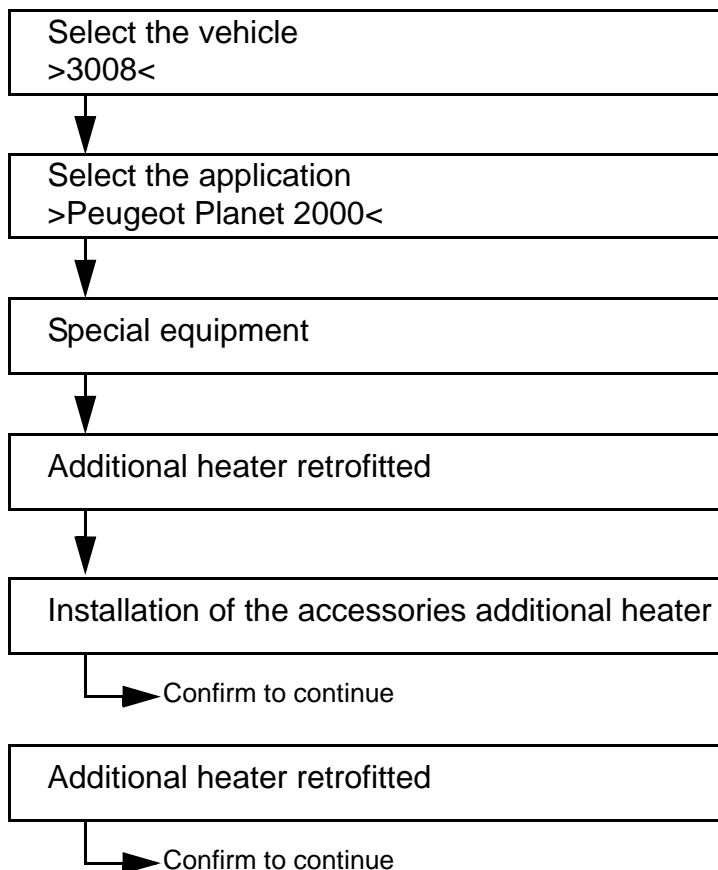
Only use manufacturer-approved coolant.

Spray heater unit components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the digital timer.
- Check the proper operation of the additional heater, see the operating instructions/installation instructions.
- Attach the „Switch off additional heater before refueling“ sticker near the filler neck

Coding BSI Central switching unit

The BSI central switching unit has to be configured as follows:



Webasto AG
 Postfach 80
 D-82131 Stockdorf / Germany
 National Hotline: 01805 93 22 78
 (14 Cent aus dem deutschen Festnetz)
 Hotfax: 0395 5592 353
 Hotmail: hotline@webasto.de
 http://www.webasto.de

Operating Instructions for End Customer



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.

On vehicles with anti-theft alarm, the passenger compartment monitoring system must be deactivated. For information on deactivation, please see the vehicle owner's manual.



No further settings on the vehicle are required!