

Water Heater



Thermo Top Evo5+ Parking Heater

e1
00 0258

Installation documentation

Jeep Grand Cherokee

3.6 V6 Petrol

from model year 2011

Left-hand drive vehicle

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, specialised tools and equipment are required to install and repair Webasto heating and cooling systems. Only original Webasto parts must be used. For this, also see the catalog of air and water heater accessories from Webasto.

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.

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

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
Jeep	Grand Cherokee	WK	e4 * 2007 / 46 * 0186 * ...

Engine type	Engine model	Output in kW	Displacement in cm ³
ERB	Petrol V6	210	3604

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

The installation location of the digital timer must be coordinated with the end customer before the installation.

Heater/Installation Kit

Quantity	Description	Order No.:
1	Basic delivery scope for the <i>Thermo Top Evo+</i>	See Price list
1	Installation kit for Jeep Grand Cherokee 2011 3.6 V6 Petrol	1317820A
1	Heater control	See Price list

Foreword

This installation documentation applies to the Jeep Grand Cherokee 3.6 V6 Petrol vehicles - for validity, see page 2 - 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.

In any case, however, it is necessary to observe the specifications in this "installation documentation", the "operating instructions" and the "installation instructions" for the *Thermo Top Evo*.

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. Insulate and tie back loose wires.

Sharp edges should be fitted with rub protection (split-open fuel hose).

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

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

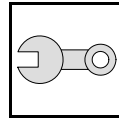
Special Tools

- Torque wrench for 2.0 - 30 Nm
- Torque wrench for 30 - 80 Nm
- Hose clamping pliers
- Metric thread-setter kit

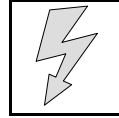
Explanatory notes on document

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.

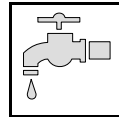
Mechanical system



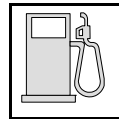
Electrical system



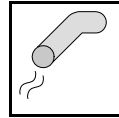
Coolant circuit



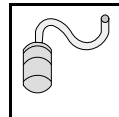
Fuel



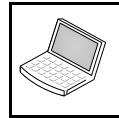
Exhaust gas



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 5x13 heater bolts = 8Nm!

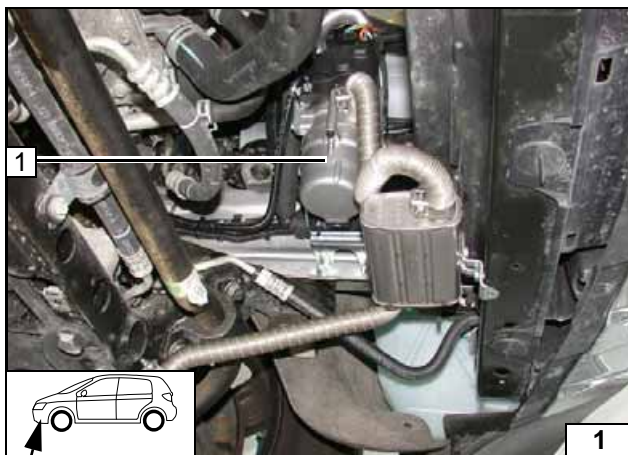
Tightening torque of 5x15 bolt of water connection piece retaining plate = 7Nm!

Preliminary work

WARNING!

- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Disconnect the battery "earth" connection.
- Depressurise 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.
- Remove the exhaust system (middle and rear silencer)
- Remove the heat protection trim of the cardan shaft
- Remove the cardan shaft according to the manufacturer's instructions.
- Remove the fuel lines trim at the left on the underbody.
- Remove the fuel tank according to the manufacturer's instructions.
- Remove the fuel-tank sending unit according to the manufacturer's instructions.
- Remove the lower engine cover.
- Drain the engine coolant.
- Remove the engine design cover.
- Remove the air filter box including the air ducting
- Remove the footwell trim under the glove compartment.
- Remove the air outlet nozzle in the right footwell.
- Remove the trim of the entrance strip on the right side (for Telestart option only).
- Remove the lower A-pillar trim in the right footwell.
- Remove the A/C control panel.
-

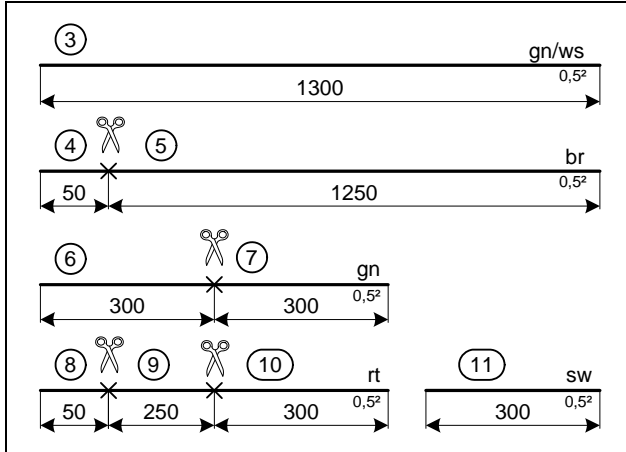
Remove page 32 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater installation location

- 1 Heater

Installation location

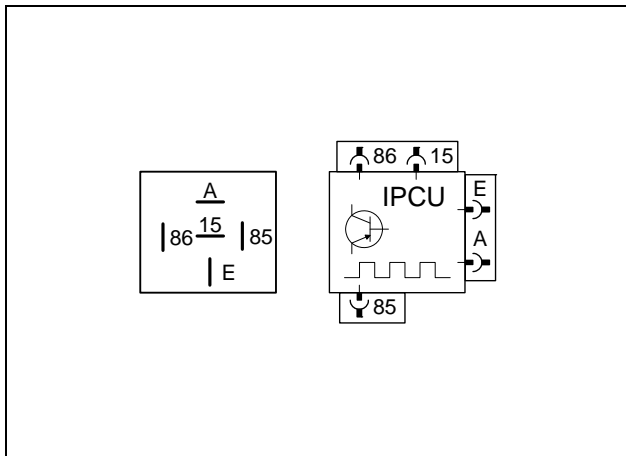


Preparing electrical system

Wire sections retain their numbering in the entire document.



Cutting wires to length



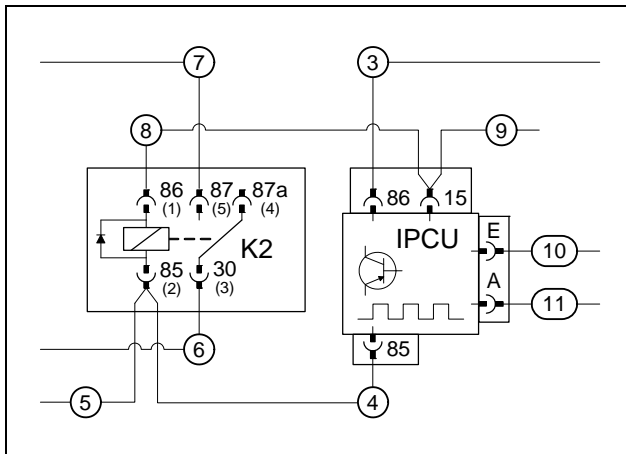
IPCU view on the contact side.
The IPCU provided in the kit is to be pre-programmed with the following settings:

Duty cycle: 62%
Frequency: 100Hz
Voltage: 10V
Function: Low-side

The settings must be checked during start-up of the heater, and adjusted if necessary.



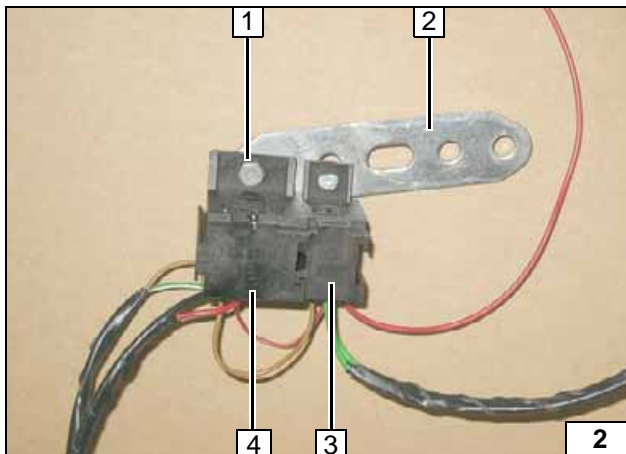
Premounting IPCU and K2



Connect wires to IPCU socket and to socket of K2 relay.



Preparing IPCU and K2 relay

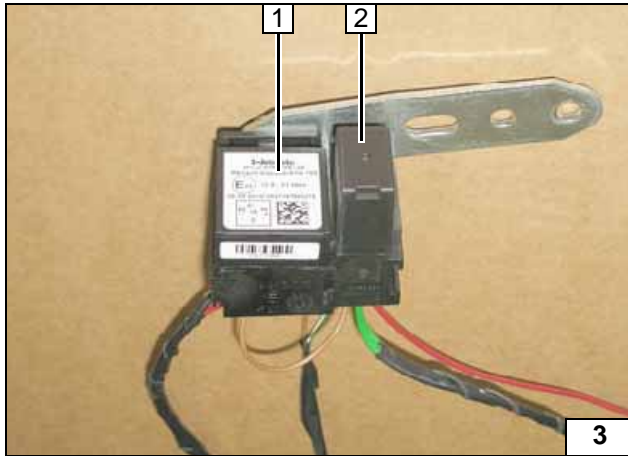


Engage relay socket 3 with IPCU socket 4.

- 1 M5x16 bolt, large diameter washer, flanged nut
- 2 Perforated bracket

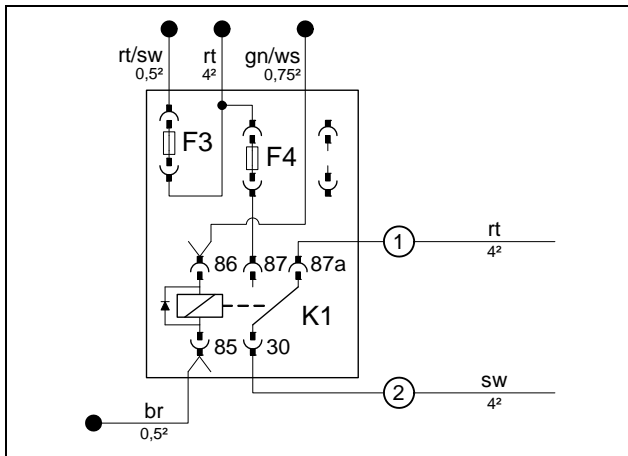


Premounting IPCU and K2 relay



- 1 IPCU
- 2 K2 relay

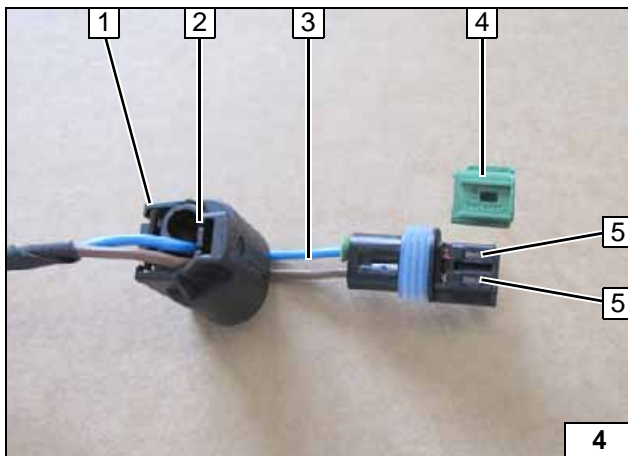
Mounting IPCU and K2 relay



Produce connections as shown in wiring diagram. Connect wires of fan wiring harness to K1 relay socket. Green/white (gn/ws) wire ③ and brown (br) wire ⑤ will be mounted in the passenger compartment only. Insert fuse F4 25A. Install K1 relay only later.



Preparing fuse holder of passenger compartment



Complete connector of metering pump after routing. Pin assignment is not relevant.

- 1 Connector housing
- 2 Lock
- 3 Blue/brown (bl/br) wires
- 4 Coding
- 5 Timer lock



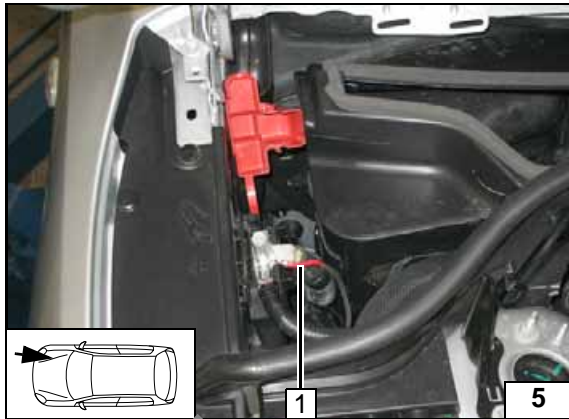
Removing connector



Electrical system

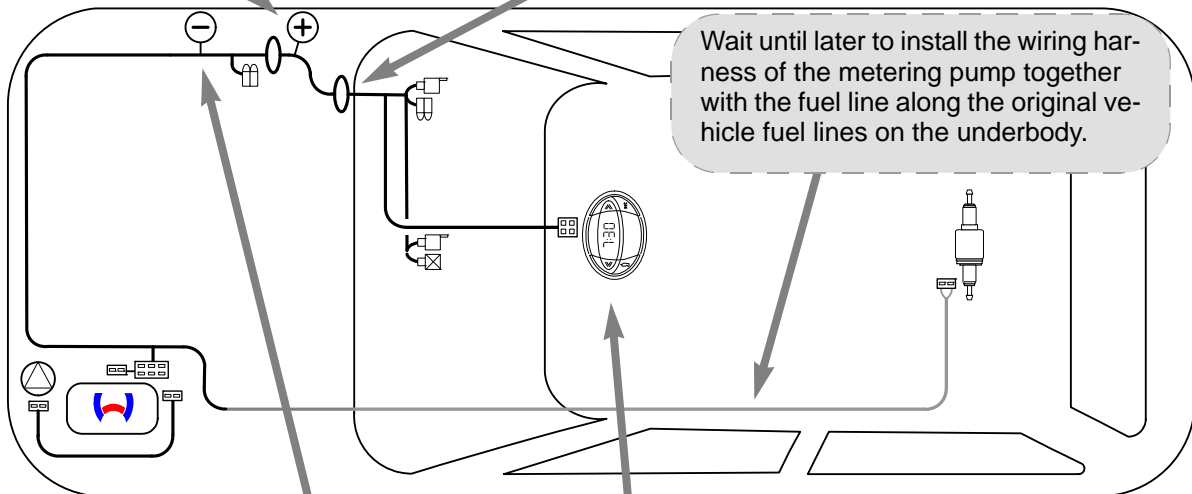
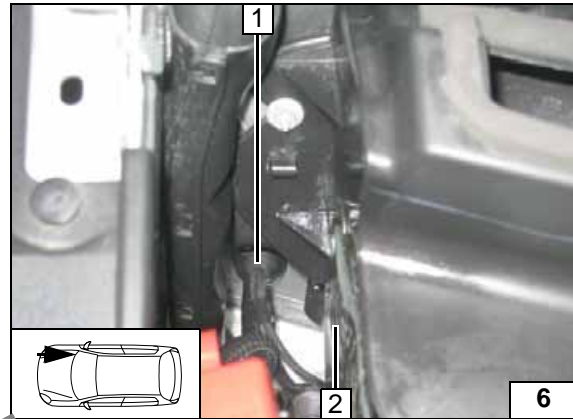
Positive wire

- 1 Positive wire on original vehicle positive support point

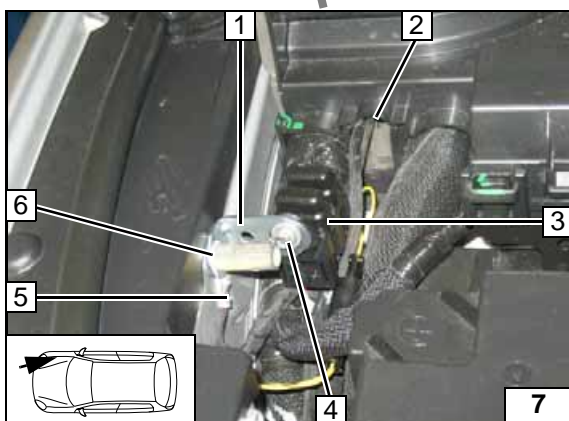


Wiring harness pass through

- 1 Cable grommet



Wiring harness routing diagram



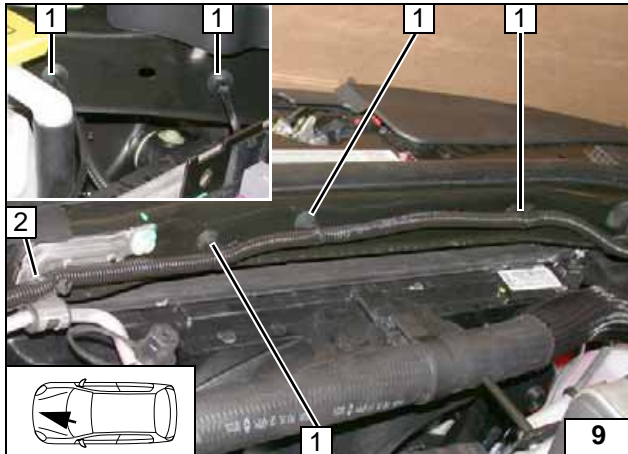
Fuse holder of engine compartment, earth wire

- 1 Angle bracket
- 2 Cable pass through via partition wall
- 3 F1-2 fuses
- 4 M5x16 bolt, washer [2x], retaining plate for fuse holder, nut
- 5 Earth wire with 8 mm dia. cable lug
- 6 Original vehicle earth support point



Digital timer

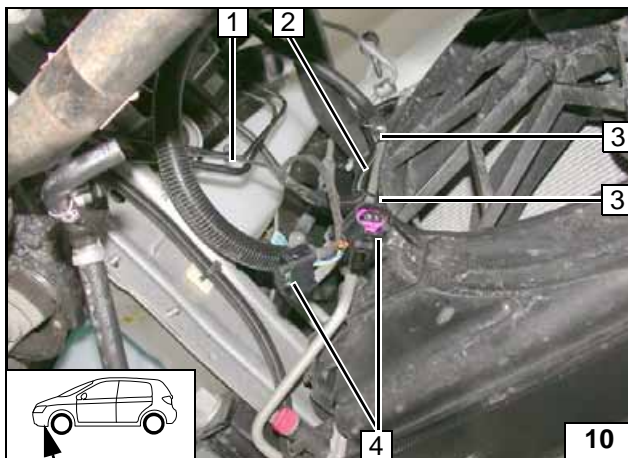
- 1 Digital timer



Insert clip-type cable tie **1** [5x] in the existing holes and route wiring harnesses of heater and metering pump in 2100 mm long, 10 mm dia. corrugated tube (slit longitudinally) to the installation location of the heater.

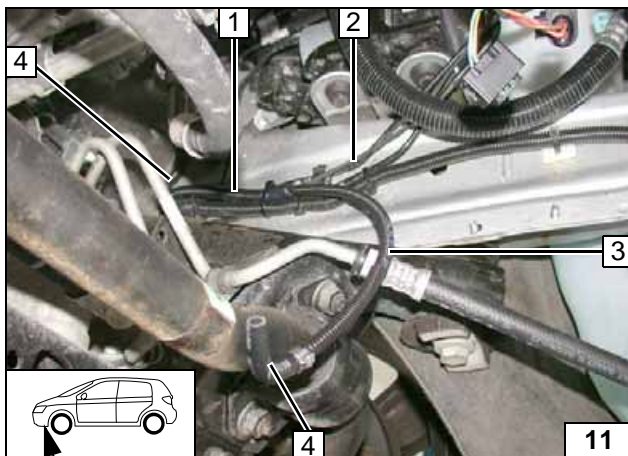
2 Cable tie

Wire routing in engine compartment



- 1** Metering pump wiring harness
- 2** Wiring harness of heater
- 3** Cable tie [2x]
- 4** Connector of heater wiring harness

Wire routing in engine compartment



Route wiring harness of metering pump and 6000 mm long fuel line together in 10 mm dia. corrugated tube **1** behind the heat protection trim **4** along the brake wires to the underbody.

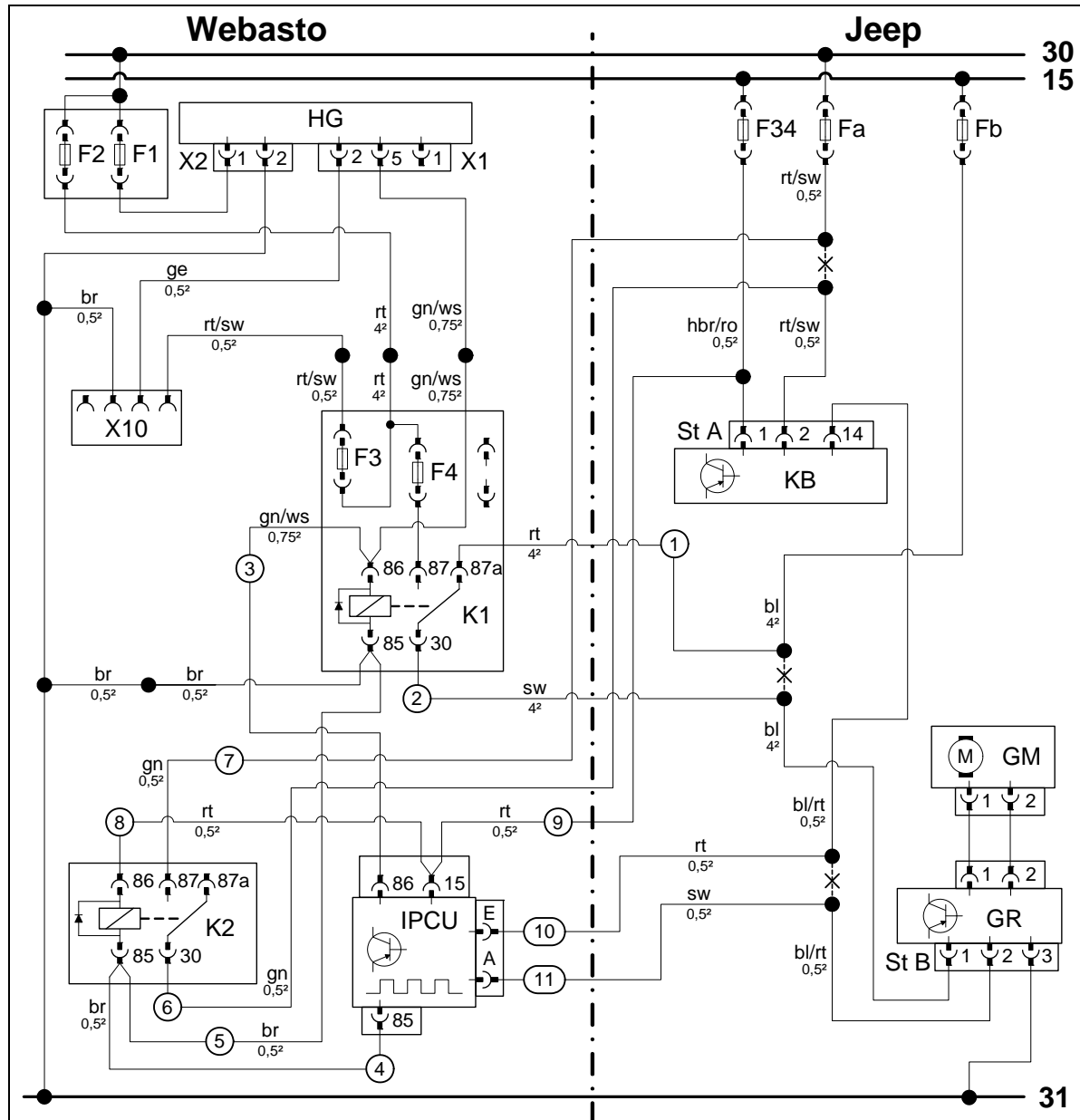
- 2** Metering pump wiring harness
- 3** 10 mm dia. corrugated tube, fuel line
- 4** 90° moulded hose

Routing in engine compartment





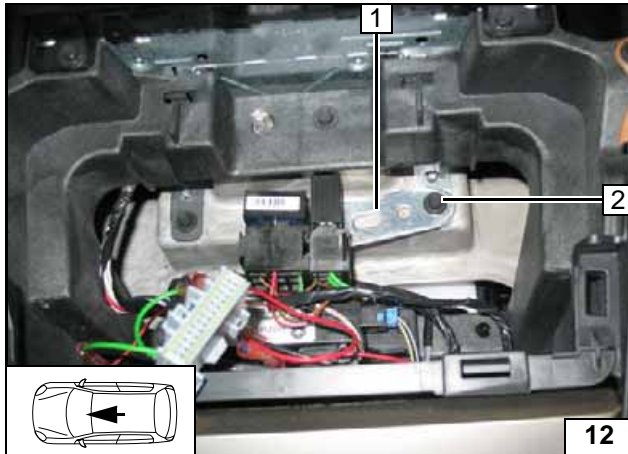
Fan controller



Wiring diagram

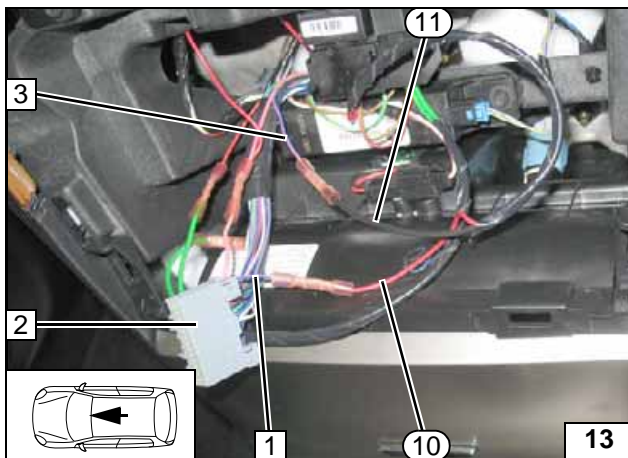
Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-Evo	GM	Fan motor	rt	red
X1	6-pin heater connector	KB	A/C control panel	sw	black
X2	2-pin heater connector	St A	26-pin connector of KB	ge	yellow
X10	Heater control	F34	Fuse	gn	green
MV	Solenoid valve	Fa	Fuse	ro	pink
K1	Fan relay	Fb	Fuse	ws	white
K2	Additional relay	GR	Fan controller	br	brown
F1	20A fuse	St B	3-pin connector GR	hbr	light brown
F2	30A fuse			bl	blue
F3	1A fuse				
F4	25 A fuse				
IPCU	Pulse width modulator				
IPCU settings:					
Duty cycle: 62%					
Frequency: 100Hz					
Voltage: 10V					
Function: Low-side					
				X	Cutting point
Wiring colours may vary.					

Legend



- 1 Perforated bracket
- 2 Original vehicle bolt

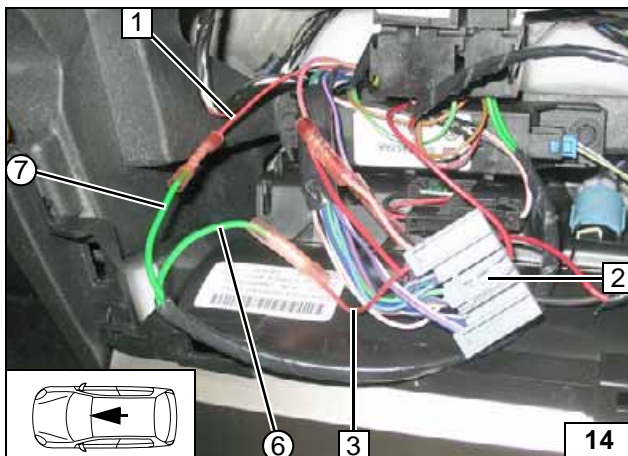
Premounting K2 relay and IPCU



Connection to 26-pin connector **2** from A/C control panel. Produce connections as shown in wiring diagram.

- 1 Blue/red (bl/rt) wire of A/C control panel connector Pin 14
- 3 Blue/red (bl/rt) wire of fan controller
- ⑩ Red (rt) wire from IPCU/E
- ⑪ Black (sw) wire from IPCU/A

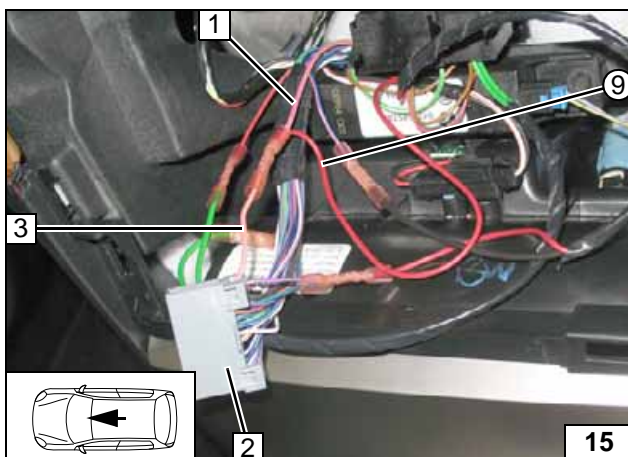
Connecting A/C control panel IPCU



Connection to 26-pin connector **2** from A/C control panel. Produce connections as shown in wiring diagram.

- 1 Red/black (rt/sw) wire from Fuse Fa
- 3 Red/black (rt/sw) wire of A/C control panel connector Pin 2
- ⑥ Green (gn) wire of K2/3
- ⑦ Green (gn) wire of K2/5

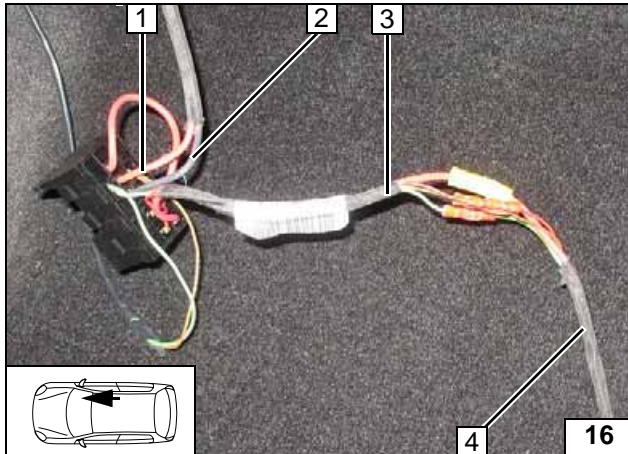
Connecting K2 relay of A/C control panel



Connection to 26-pin connector **2** from A/C control panel. Make connections according to wiring diagram. Route green/white (gn/ws) wire ③ of IPCU/86 and brown (br) wire ⑤ of K2/1 relay from centre console in the front passenger side footwell.

- 1 Light brown/pink (hbr/ro) wire from fuse F34
- 3 Light brown/pink (hbr/ro) wire of A/C control panel connector Pin 1
- ⑨ Red (rt) wire from IPCU/15

Connecting IPCU/15

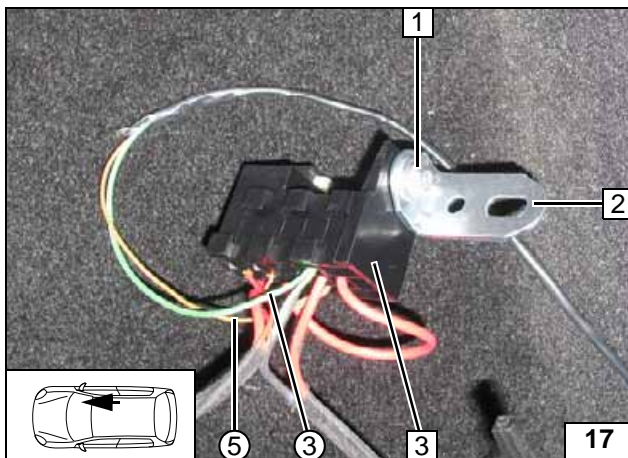


Connect same colour wires of wiring harness of passenger compartment fuse holder 3 with wiring harness of heater 4 as shown in wiring diagram.

- 1 Insert red (rt) wire ① in K1 relay terminal 87a
- 2 Insert black (sw) wire ② in K1 relay terminal 87a



Connecting wiring harnesses

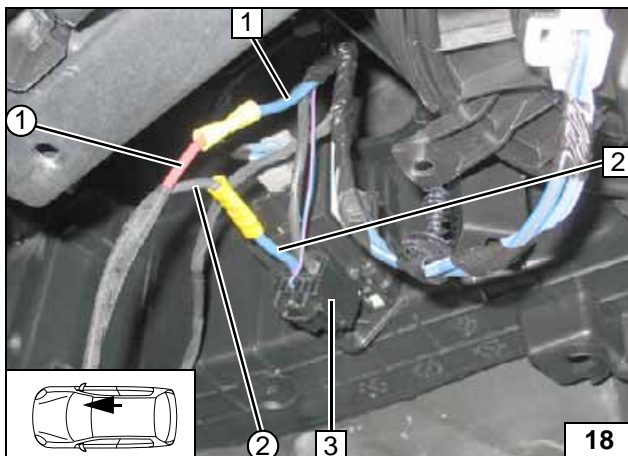


Make connections according to wiring diagram. Connect green/white (gn/ws) wire ③ to terminal 86 and brown (br) wire ⑤ to terminal 85 of IPCU socket. Install K1 relay only later.

- 1 M5x16 bolt, large diameter washer, flanged nut
- 2 Angle bracket
- 3 Fuse holder of passenger compartment
- ③ Green/white (gn/ws) wire of IPCU/86
- ⑤ Brown (br) wire from IPCU/85



Preparing fuse holder of passenger compartment

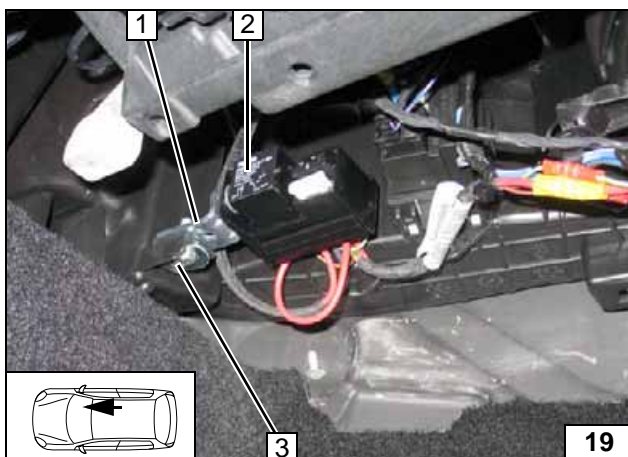


Connection to 3-pin connector 3 from fan controller. Produce connections as shown in wiring diagram.

- 1 Blue (bl) wire of fuse
- 2 Blue (bl) wire of fan controller connector Pin 1
- ① Red (rt) wire from K1/87a
- ② Black (sw) wire from K1/30



Connecting fan controller

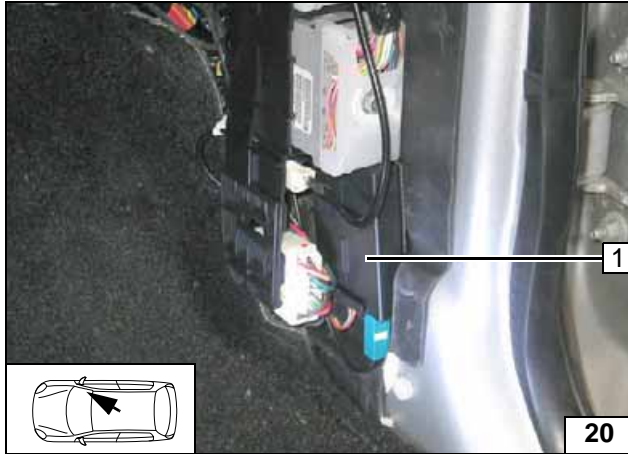


Mount K1 relay 2 after installation.

- 1 Angle bracket
- 3 M6x20 bolt, large diameter washer, flanged nut, original vehicle hole



Installing fuse holder

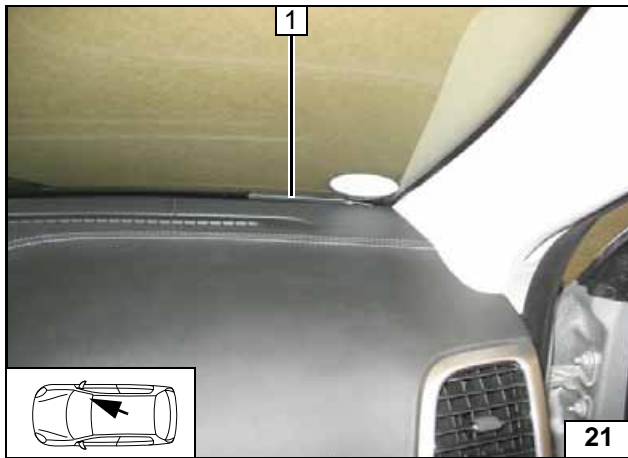


Remote option (Telestart)

Fasten receiver 1 with adhesive tape.

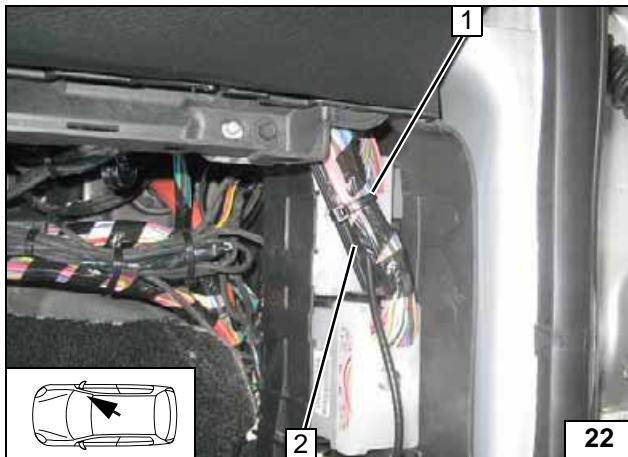


Installing receiver



1 Antenna

Installing antenna

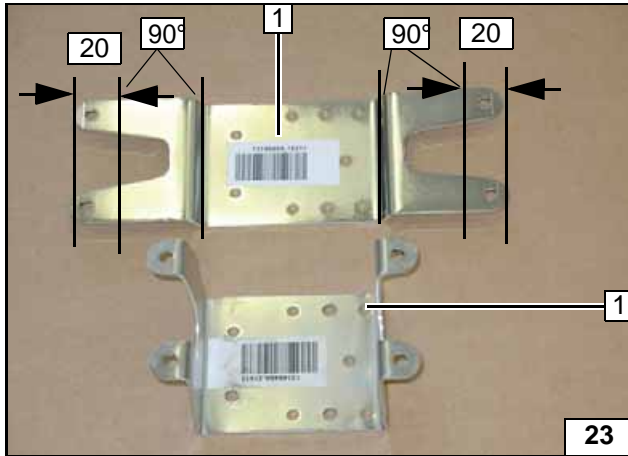
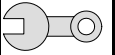


Temperature sensor T100 HTM

Fasten temperature sensor 2 with cable tie 1.



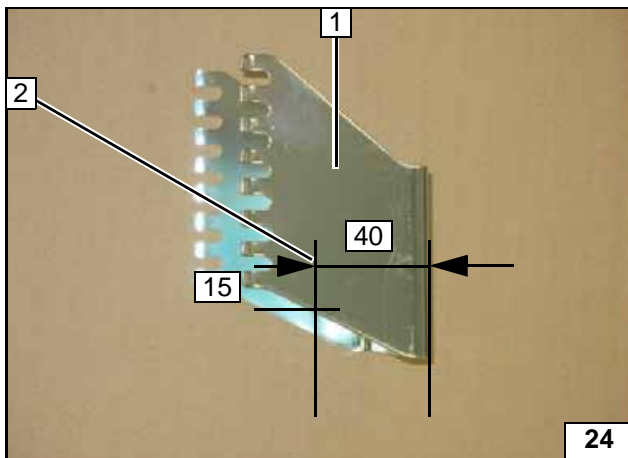
Installing temperature sensor



Preparing installation

Angle down bracket 1 as shown.

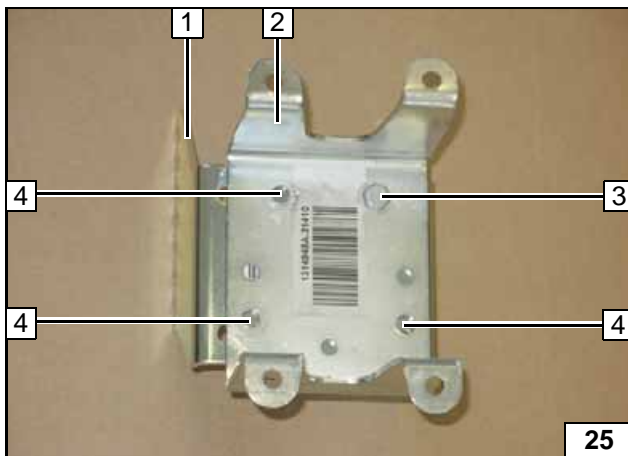
Bending bracket



- 1 Bracket
- 2 7 mm dia. hole



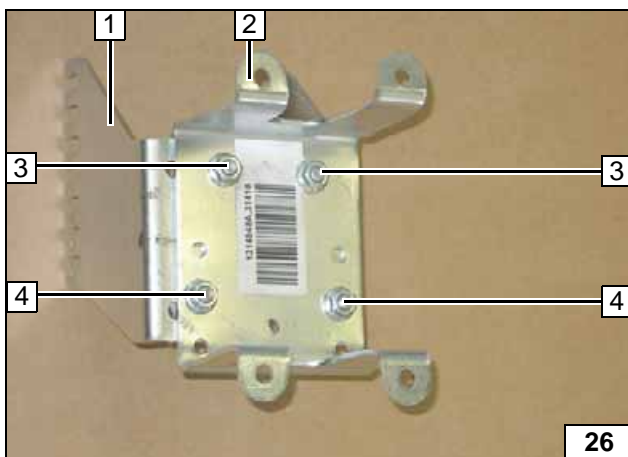
Preparing bracket



Align bracket 2 to bracket 1, fix with M6X16 bolt and flanged nut 3, copy hole pattern 4 to 7 mm dia. bracket 1 [3x] and drill.

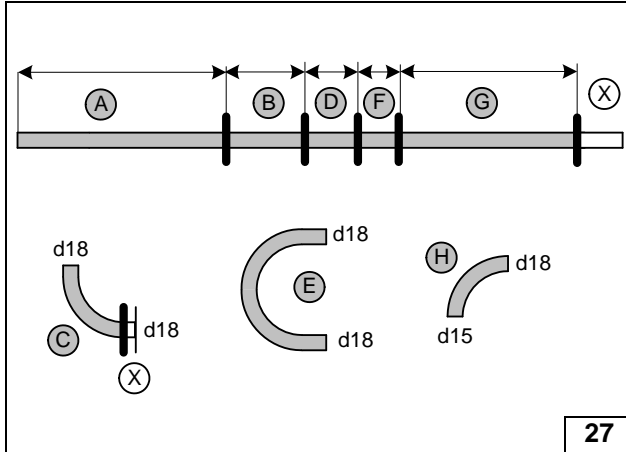
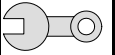


Copying hole pattern



- 1 Bracket
- 2 Bracket
- 3 M6x16 bolt, nut
- 4 M6x16 bolt, large diameter washer, nut

Premounting bracket



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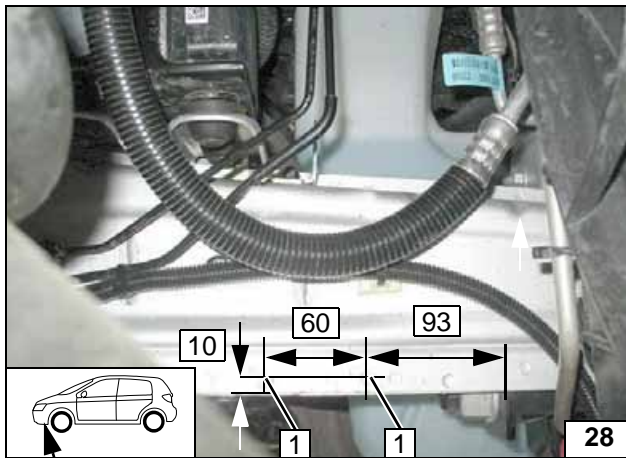
Discard section X.

Hose C = 90°, 18-18 mm dia. moulded hose
 Hose E = 180°, 18 mm dia. moulded hose
 Hose H = 180°, 15-18 mm dia. moulded hose

- A = 630
- B = 120
- C = 5
- D = 70
- F = 60
- G = 530



Cutting hoses to length



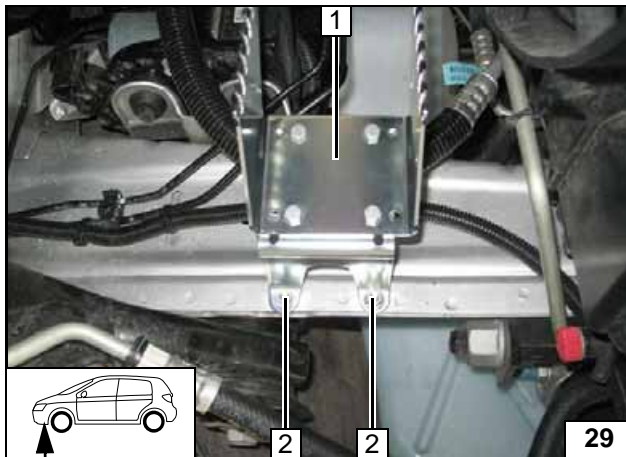
28

Preparing installation location

Copy hole pattern 1 for drilling 7 mm dia. hole [2x], and drill.



Copying hole pattern

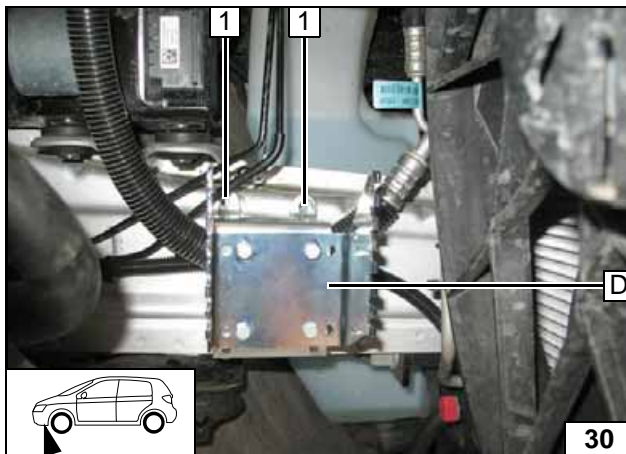


29

Mount bracket 1 with M6x16 bolt 2 [2x] and flanged nut [2x].



Copying hole pattern

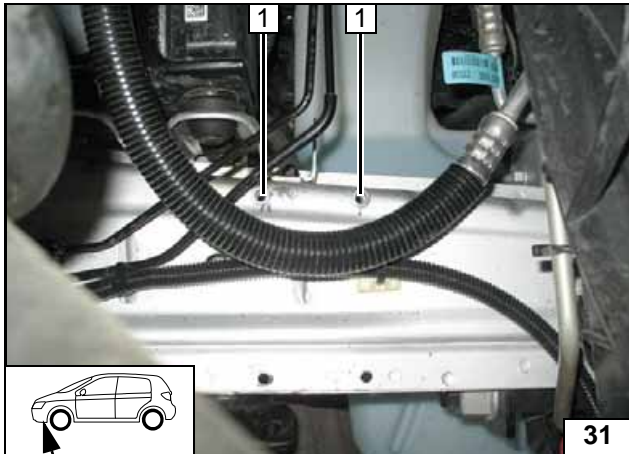
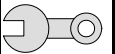


30

Align bracket 2, copy hole pattern 1 for 9.1mm dia. holes [2x].

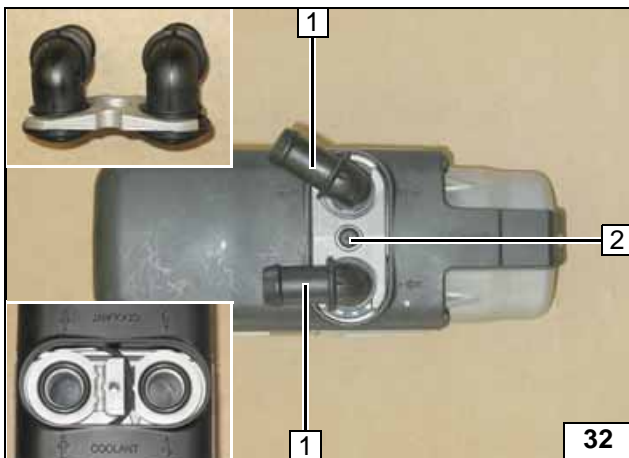


Copying hole pattern



- 1 9.1 mm dia. hole, M6 rivet nut [2x]

Installing rivet nuts

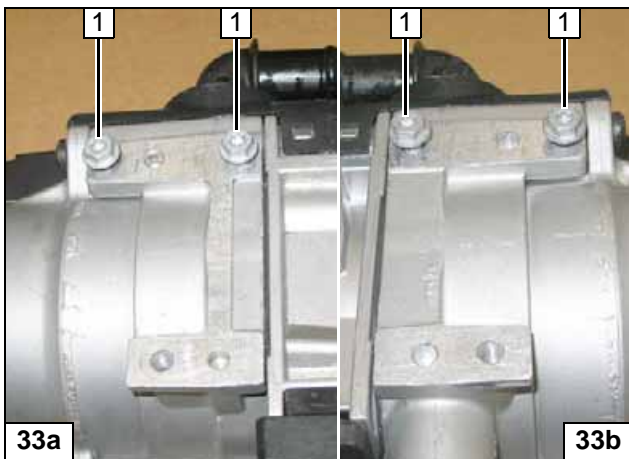


Preparing heater

- 1 90° water connection piece, sealing ring [2x each]
- 2 5x15 self-tapping bolt, retaining plate of water connection piece



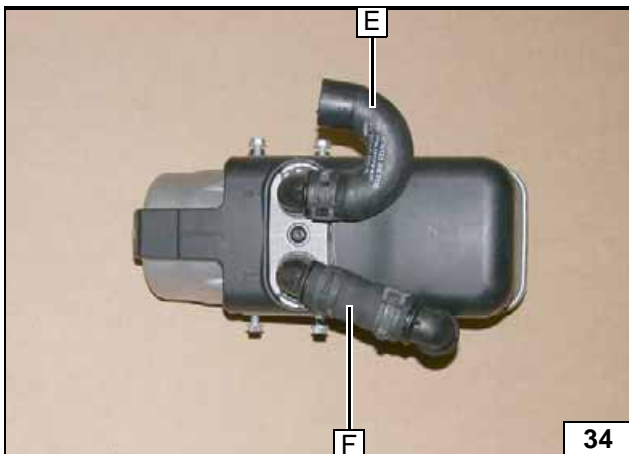
Installing water connection piece



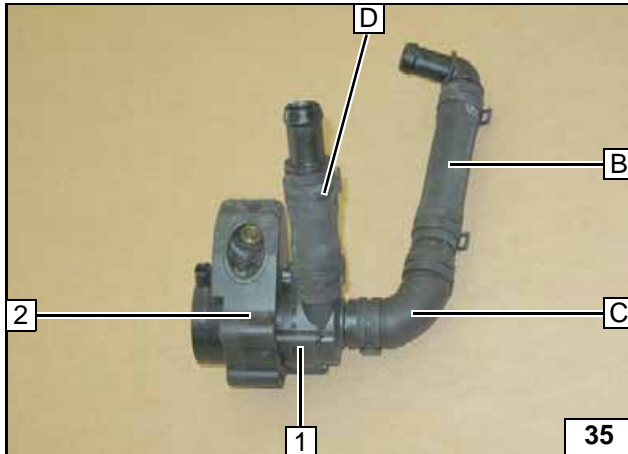
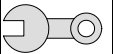
Pre-tap threads with 5x13 self-tapping bolt 1 [4x] and install loosely (turn max. 3 threads).



Premounting bolts loosely

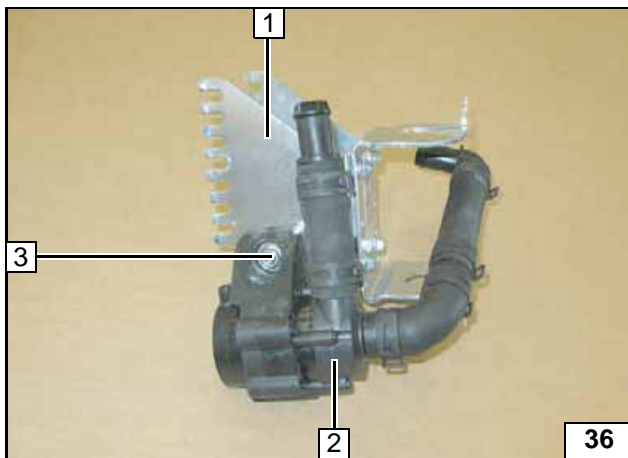


Mounting hoses E and F



- 1 Circulating pump
- 2 Mounting for circulating pump

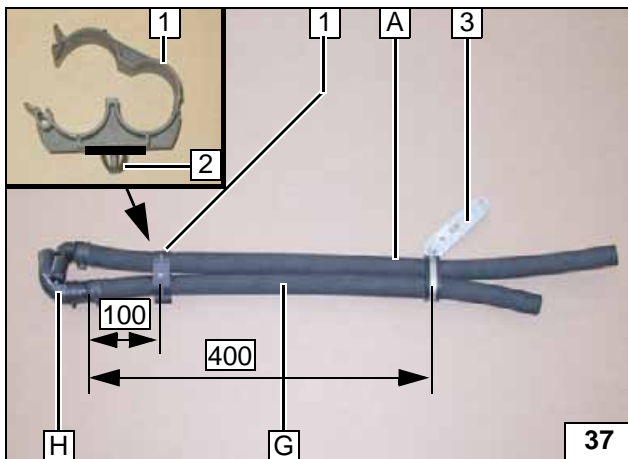
Premounting circulating pump



- 1 Heater bracket
- 2 Circulating pump premounted
- 3 M6x25 bolt, washer, flanged nut



Premounting bracket and circulating pump

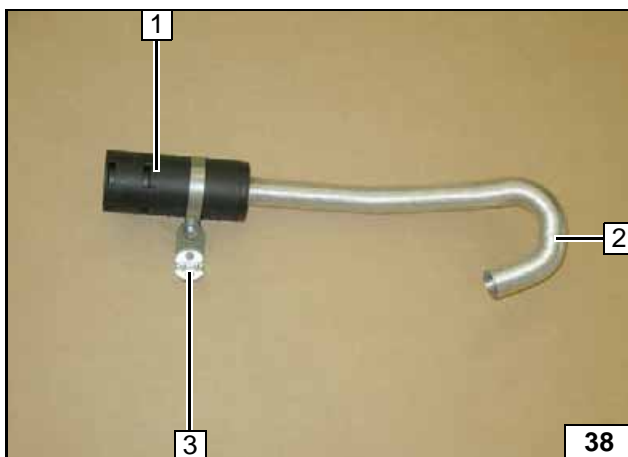


Separate retaining clip 2 from hose bracket 1.

- 1 Hose bracket
- 3 Perforated bracket, 38 mm dia. rubber-coated clamp, M6x16 bolt, flanged nut



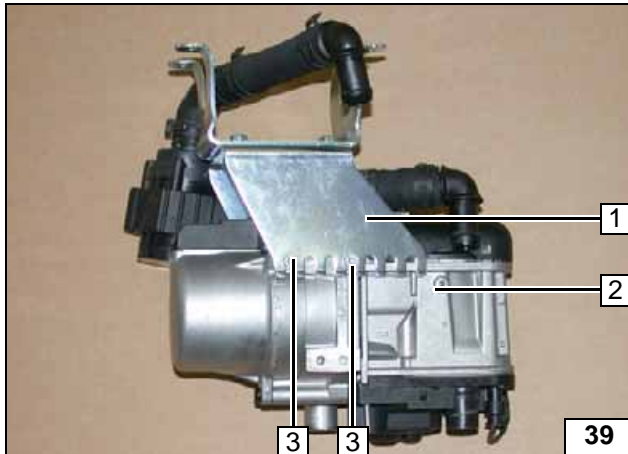
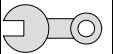
Premounting coolant hoses A, G and H



- 1 Silencer
- 2 Intake pipe
- 3 Angle bracket, M5x16 bolt, nut, large diameter washer, 51 mm dia. clamp



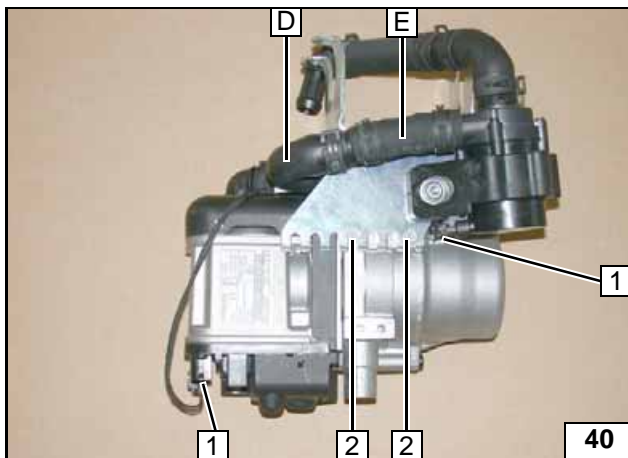
Premounting silencer



Insert heater 2 in bracket 1 as shown and tighten 5x13 self-tapping bolt 3 [2x].



Premounting heater



Connect hose D and E.

- 1 Attach wiring harness of circulating pump
- 2 Tighten 5x13 self-tapping bolts [2x]

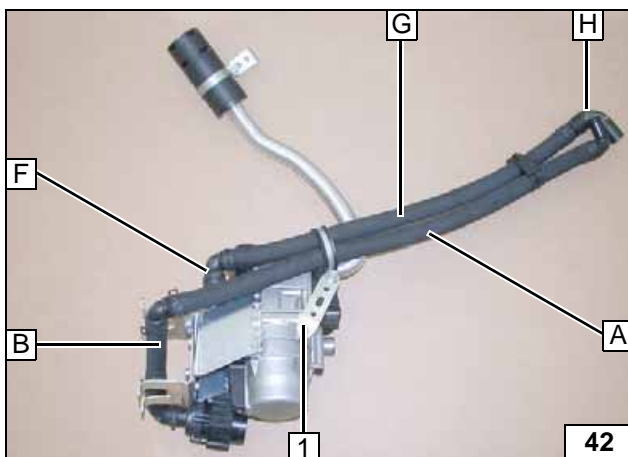


Premounting heater



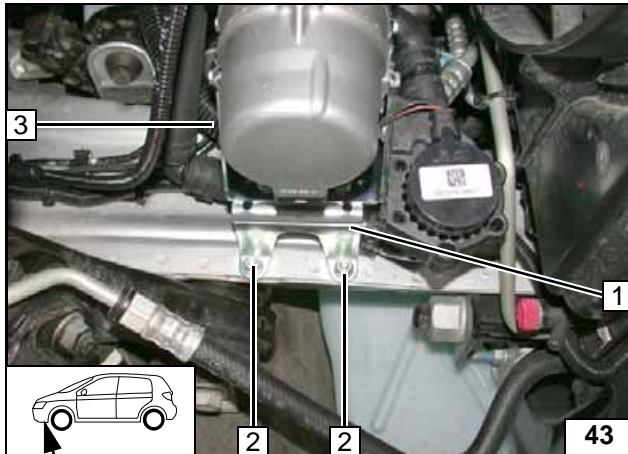
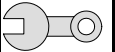
- 1 Intake pipe
- 2 25 mm dia. spring clip

Premounting intake pipe on heater



- 1 5x13 self-tapping bolt, perforated bracket

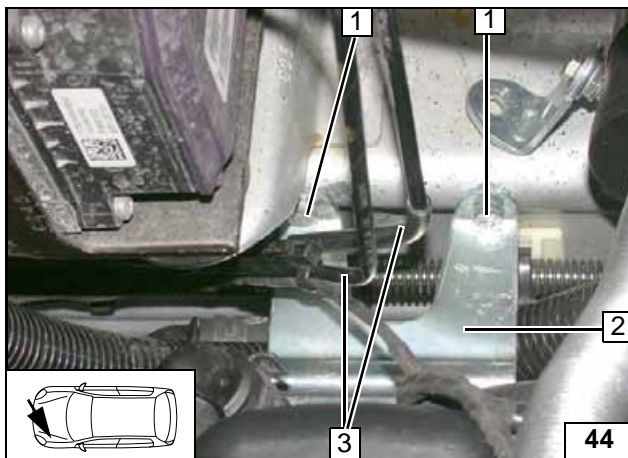
Connecting pre-installed coolant hoses to heater



Installing heater

Align A/C line **3** within the bracket without system.

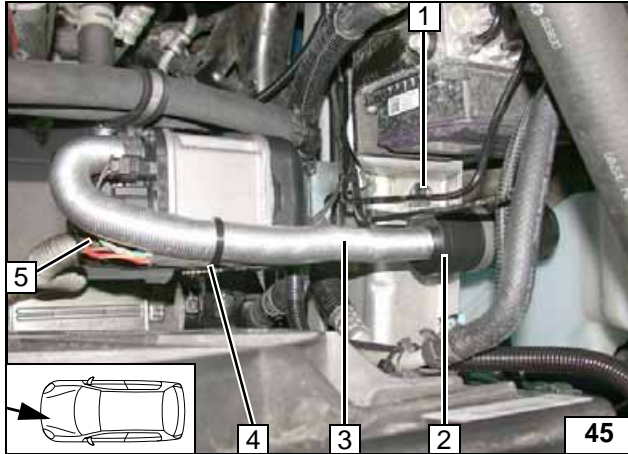
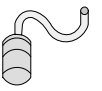
- 1 Bracket with heater premounted
- 2 M6x16 bolt, flanged nut



Align brake wires **3** without system.

- 1 M6x20 bolt, spring lockwasher
- 2 Bracket with heater premounted



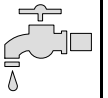


Combustion air

Align silencer **2** and install with plastic nut **1** on original vehicle stud bolt.

- 3** Intake pipe
- 4** Cable tie, wiring harness of heater
- 5** Attach connector [2x] of heater wiring harness to heater

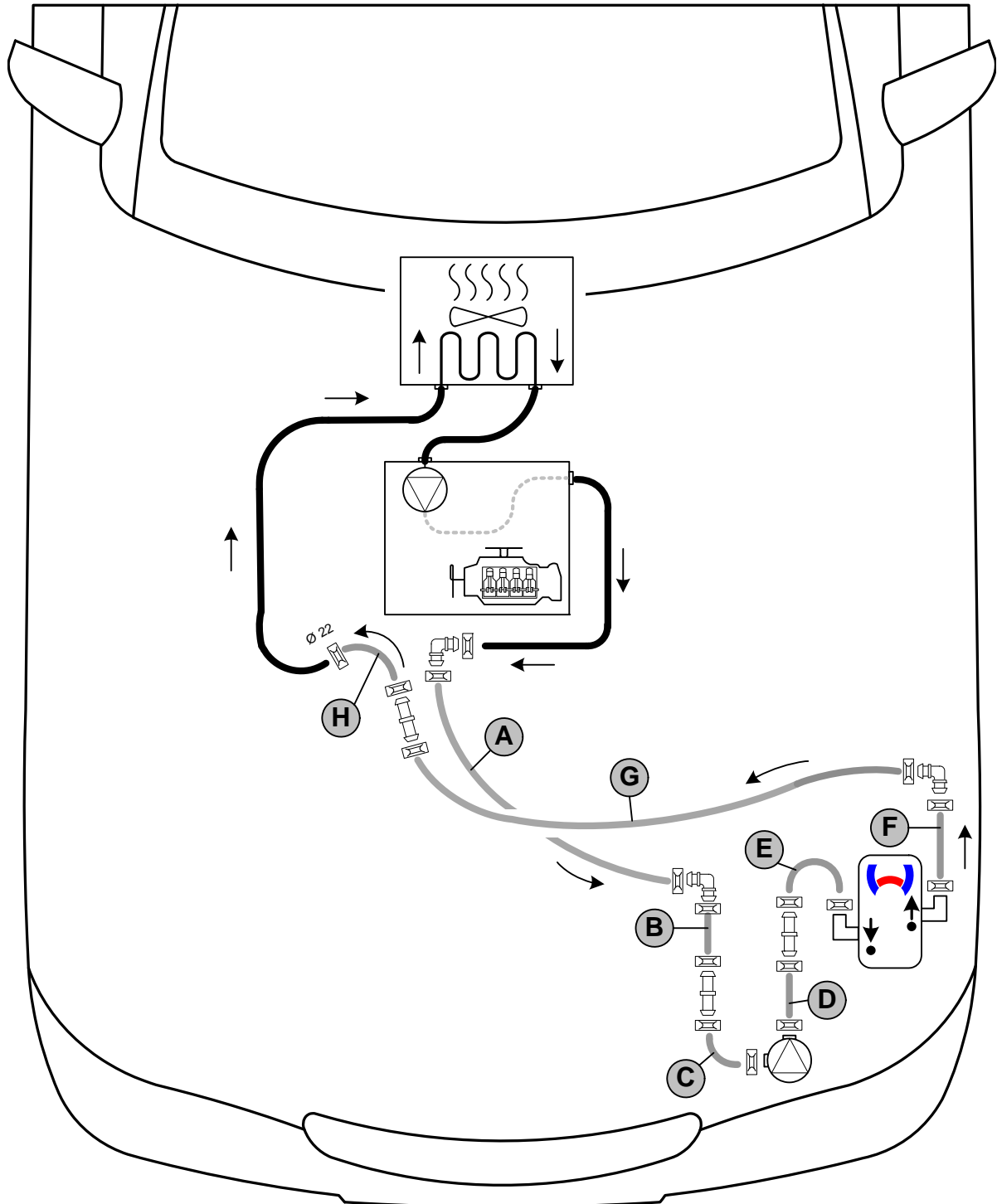







Coolant circuit

WARNING!

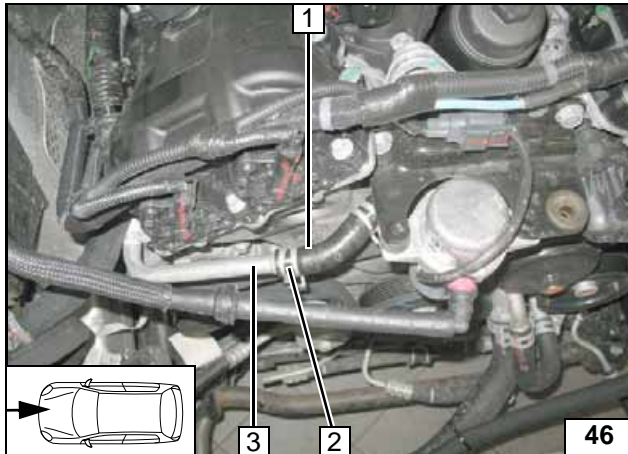
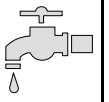
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged. When installing the hose, the heater must be filled with coolant. The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



Hose routing diagram

All spring clips without a specific designation  = 25 mm dia.
 All connecting pipes without specific designation  = 18x18 mm dia.
 All connecting pipes without specific designation  = 18x18 mm dia.

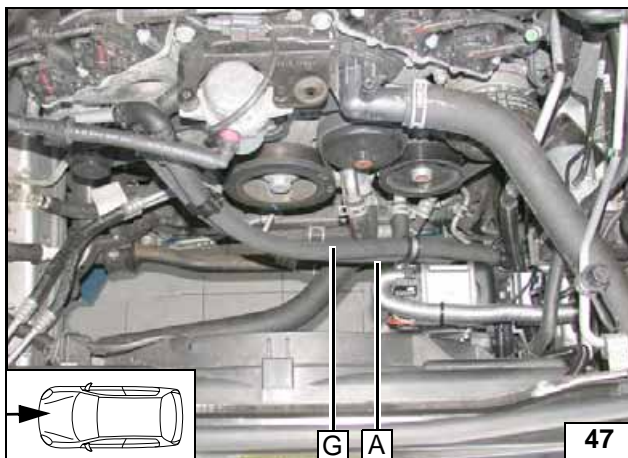




Pull hose end at engine outlet 1 off pipe 3, the original vehicle spring clip 2 will not be re-used.



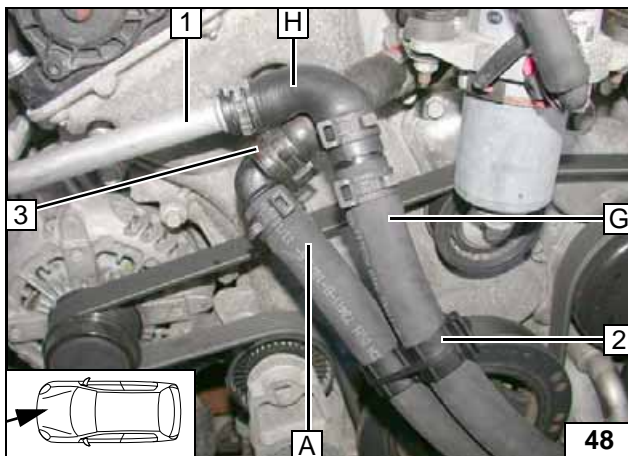
Cutting point



Route hoses A and G to connecting point.



Routing in engine compartment



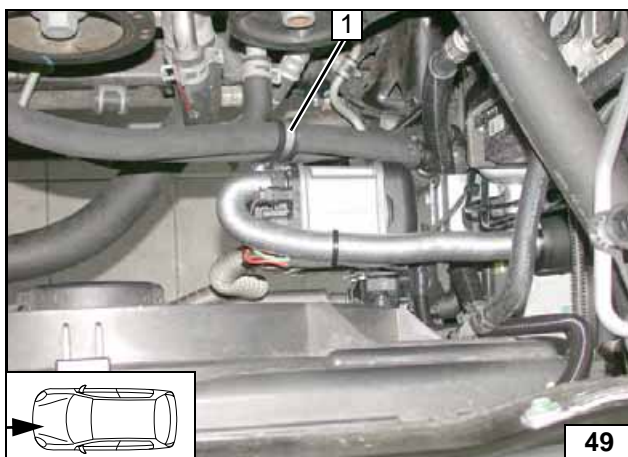
Ensure sufficient distance to neighbouring components.

Align hose bracket 2.

- 1 Pipe on heat exchanger inlet
- 3 Hose section of engine outlet



Connecting engine outlet and heat exchanger inlet



Ensure sufficient distance to neighbouring components.

- 1 38 mm dia. rubber-coated pipe clamp

Routing in engine compartment



Fuel

CAUTION!

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

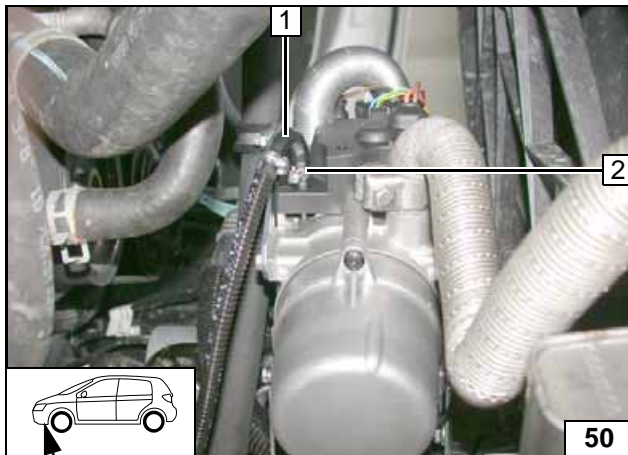
Catch any fuel running off with an appropriate container.

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

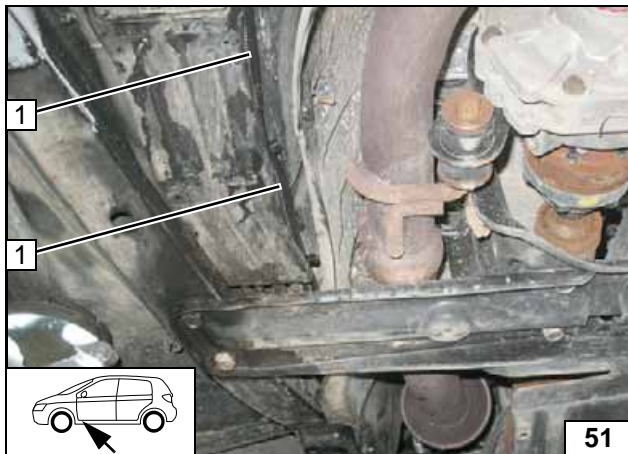
Mount the fuel line and wiring harness with rub protection on sharp edges.

WARNING!

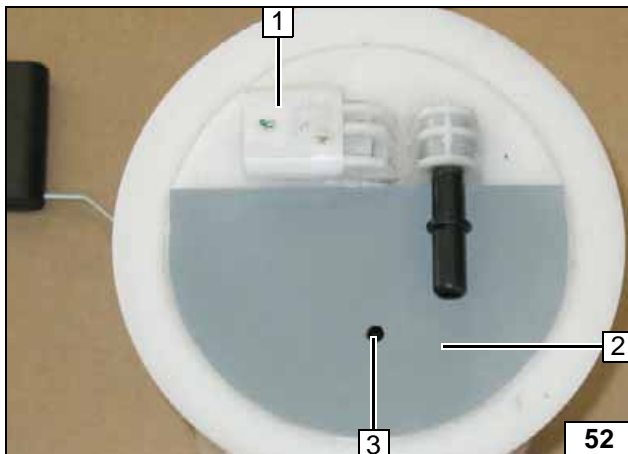
The fuel line and wiring harness are routed to the metering pump in as shown in the wiring harness routing diagram.



- 1 90° moulded hose, fuel line
- 2 10 mm dia. clamp



Route fuel line and wiring harness of metering pump in corrugated tube 1 on original vehicle lines to the rear.



Remove the tank according to the manufacturer's instructions. Remove fuel-tank sending unit 1 in accordance with manufacturer's instructions. Cut out template of fuel-tank sending unit 2 and apply.

- 3 Copy hole pattern, 6 mm dia. hole



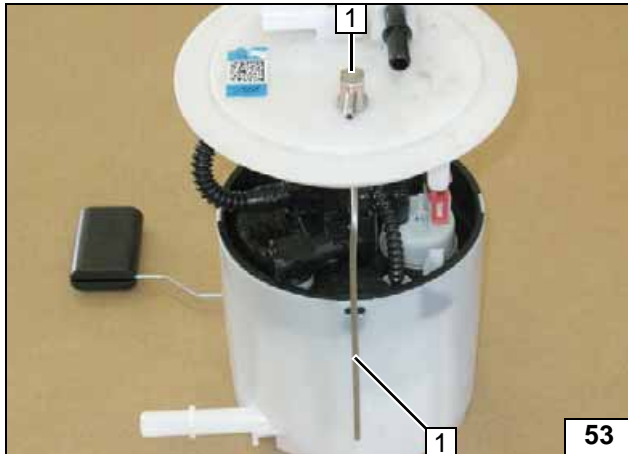
Connect-
ing heater



Routing
lines



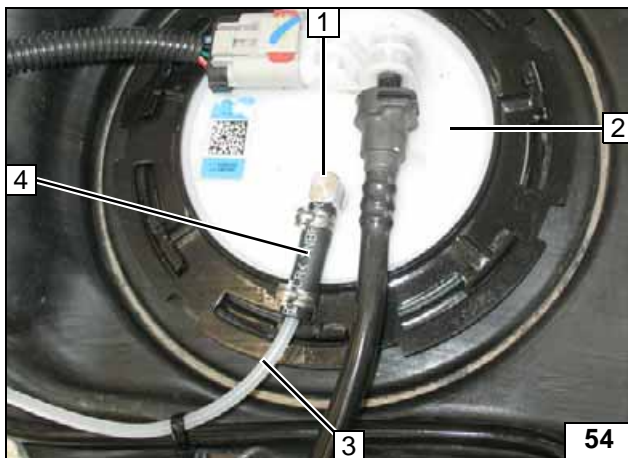
Fuel ex-
traction



Shape fuel standpipe 1 according to template, cut to length and install.



Installing fuel standpipe

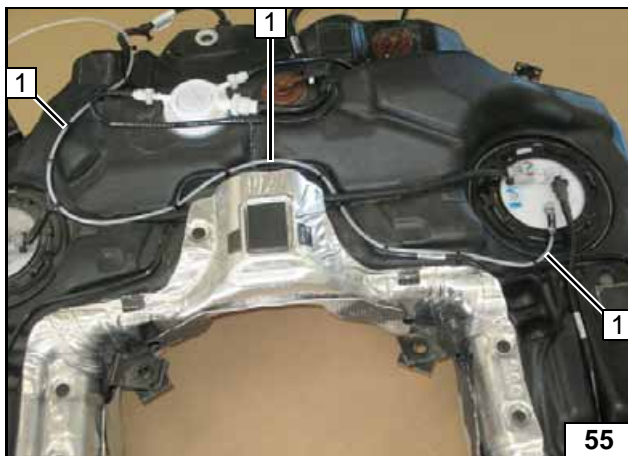


Install fuel-tank sending unit 2 in accordance with manufacturer's instructions.



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

Connecting fuel line

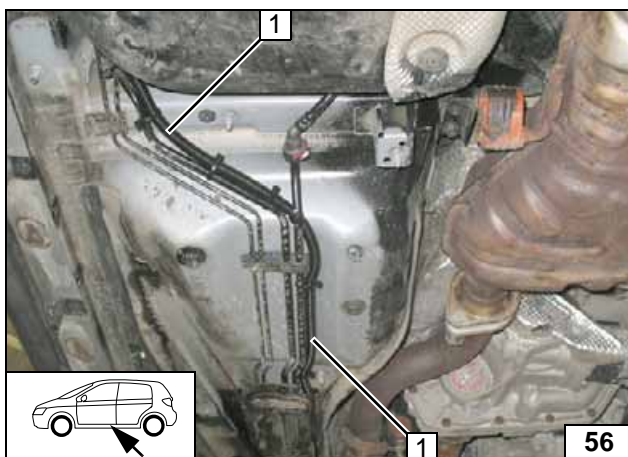


Install tank after routing according to manufacturer's instructions.



- 1 Secure fuel line with cable ties

Routing fuel line

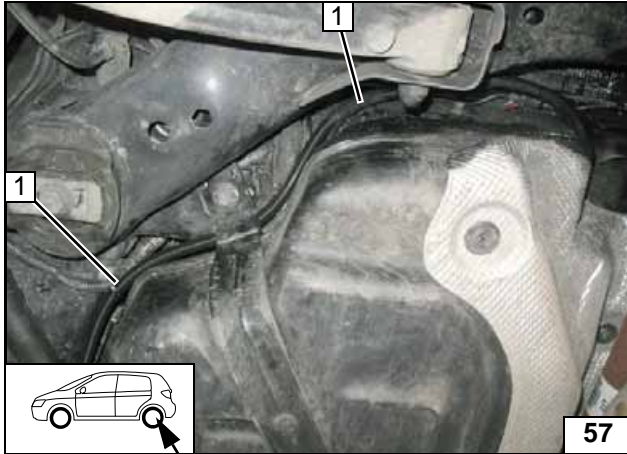
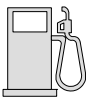


Route fuel line and wiring harness of metering pump in corrugated tube 1 on original vehicle lines to the tank.



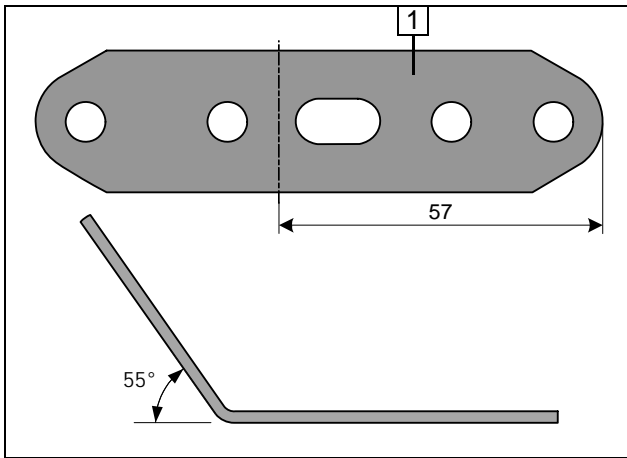
Routing lines





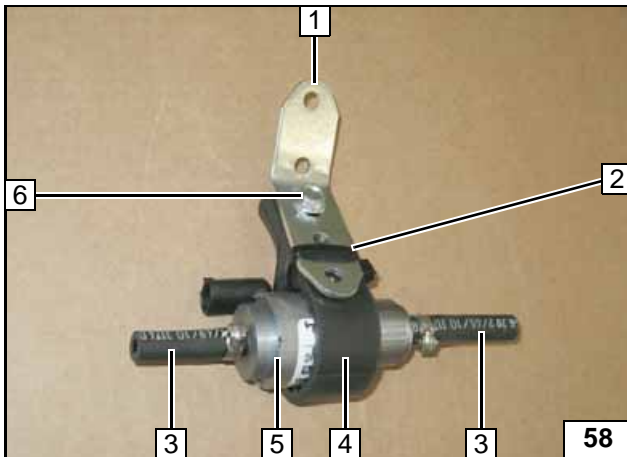
Route fuel line and wiring harness of metering pump in corrugated tube 1 to the installation location of the metering pump.

Routing lines



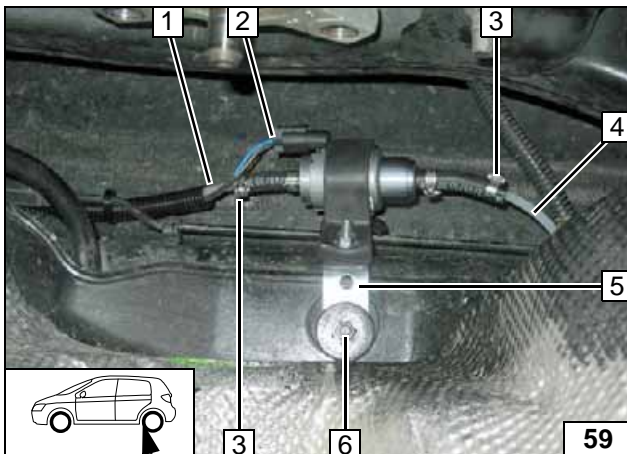
1 Perforated bracket

Preparing perforated bracket



- 1 Perforated bracket
- 2 Cable tie
- 3 Hose section, 10 mm dia. clamp [2x each]
- 4 Metering pump mounting
- 5 Metering pump
- 6 M6x25 bolt, flanged nut

Premounting metering pump

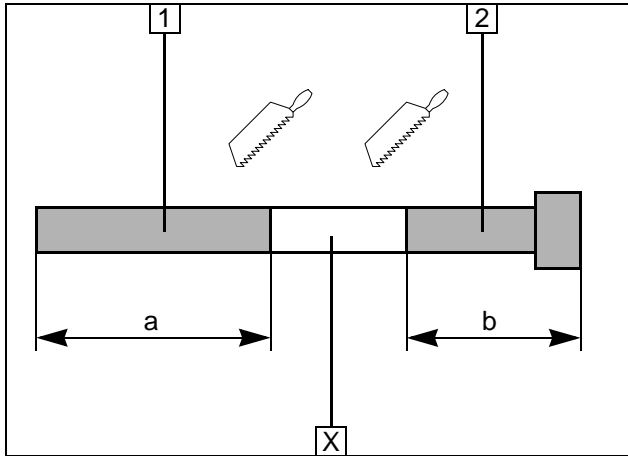
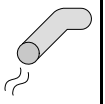


Check the position of the components; adjust if necessary. Check that they have freedom of movement.



- 1 Fuel line of heater
- 2 Wiring harness of metering pump, connector mounted
- 3 10 mm dia. clamp [2x]
- 4 Fuel line of fuel standpipe
- 5 Perforated bracket
- 6 Original vehicle bolt

Installing metering pump



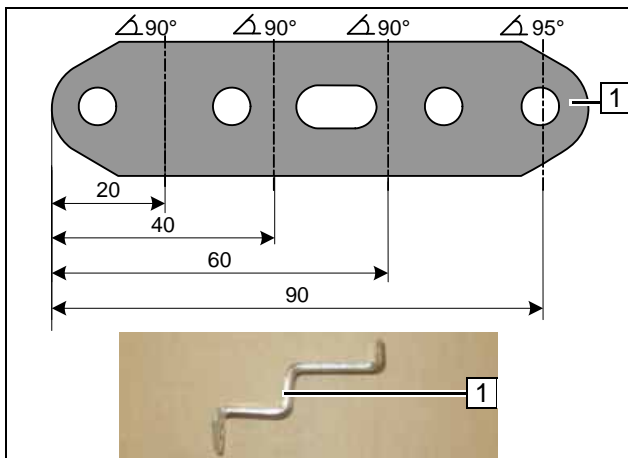
Exhaust gas

Discard section X.

- 1 Exhaust pipe
a = 390
- 2 Exhaust end section
b = 350



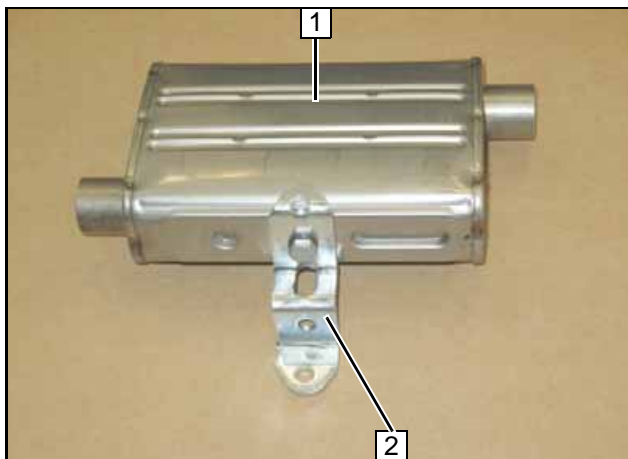
Preparing exhaust pipe



Angle down perforated bracket 1 as shown.

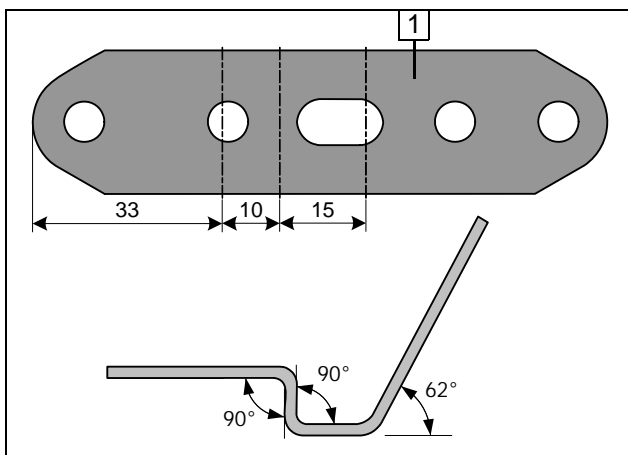


Preparing perforated bracket



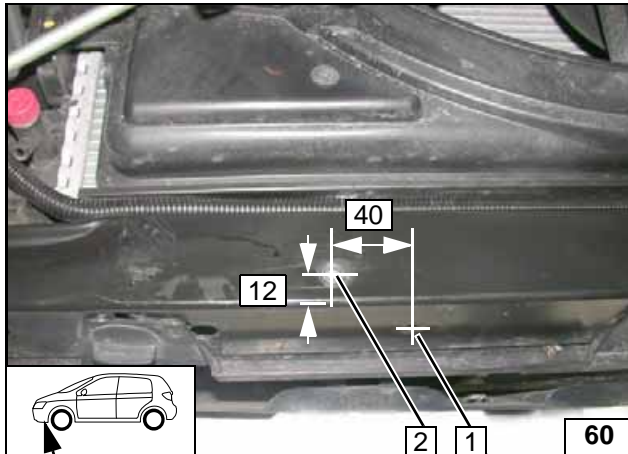
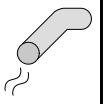
- 1 Exhaust silencer
- 2 Perforated bracket, M6x16 bolt, spring lockwasher

Premounting exhaust silencer



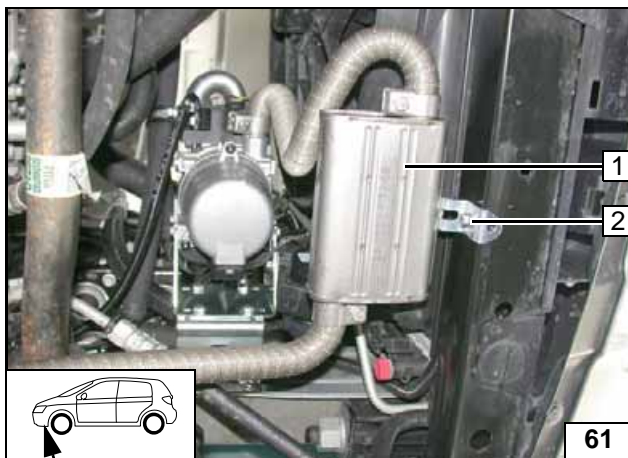
- 1 Perforated bracket

Preparing perforated bracket for exhaust outlet



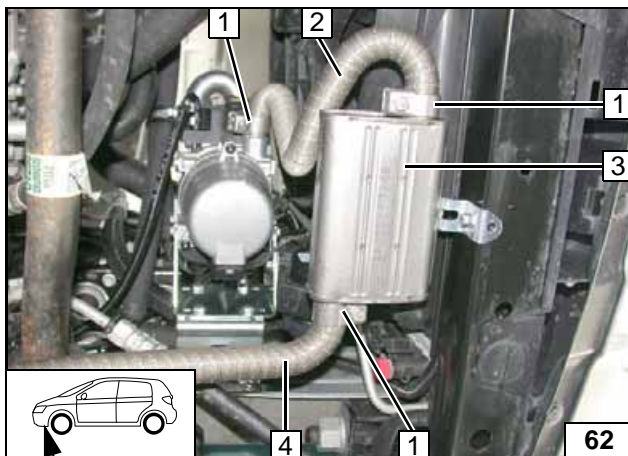
- 1 Original vehicle hole
- 2 9.1 mm dia. hole for M6 rivet nut

**Hole for ex-
haust si-
lencer**



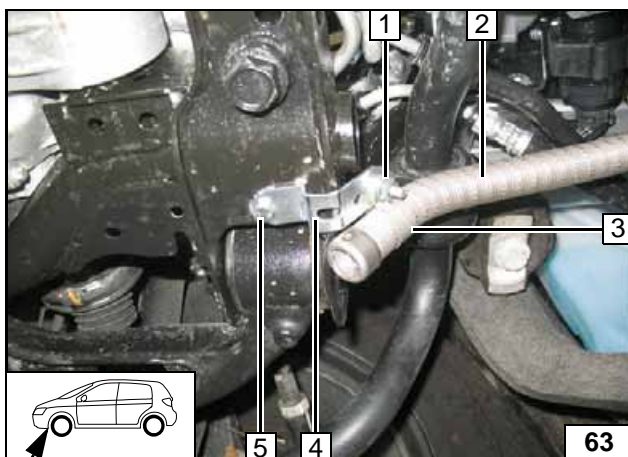
- 1 Exhaust silencer
- 2 M6x20 bolt, spring lockwasher, M6 rivet nut

**Mounting
exhaust si-
lencer**



- 1 Hose clamp [3x]
- 2 Exhaust pipe
- 3 Exhaust silencer
- 4 Exhaust-pipe end section

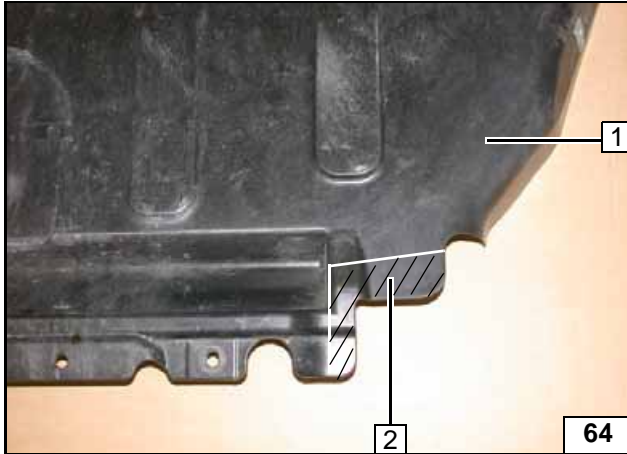
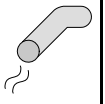
**Mounting
exhaust si-
lencer**



Ensure sufficient distance to neighbouring components.

- 1 M6x20 bolt, flanged nut
- 2 Exhaust end section
- 3 Pipe-clamp
- 4 Perforated bracket
- 5 M6x20 bolt, large diameter washer, flanged nut, existing hole

**Installing
exhaust
end sec-
tion**

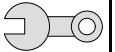


Process underide protection 1 as shown.

2 Discard section



**Process-
ing under-
ride
protection**



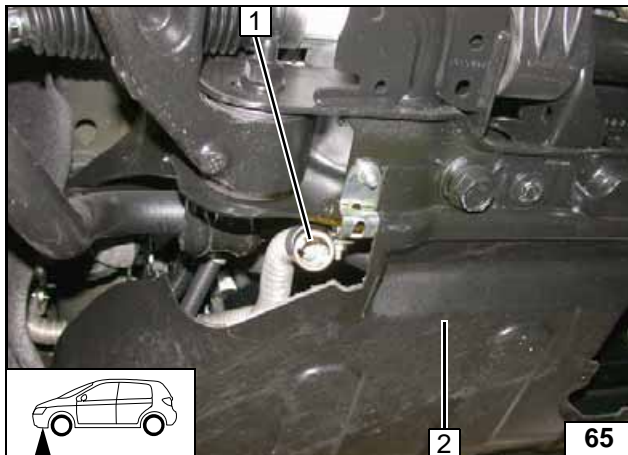
Final Work

WARNING!

Reassemble the disassembled components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate all loose lines 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 specifications.
- Set digital timer, teach telestart transmitter
- Make settings on A/C control panel according to the "Operating Instructions for End Customer".
- Place signboard "Switch off parking heater before refilling" in the area of the filler neck
- For initial startup and function check, please see Installation Instructions



Ensure sufficient distance to neighbouring components.

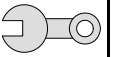
- 1 Exhaust end section
- 2 Mount underride protection



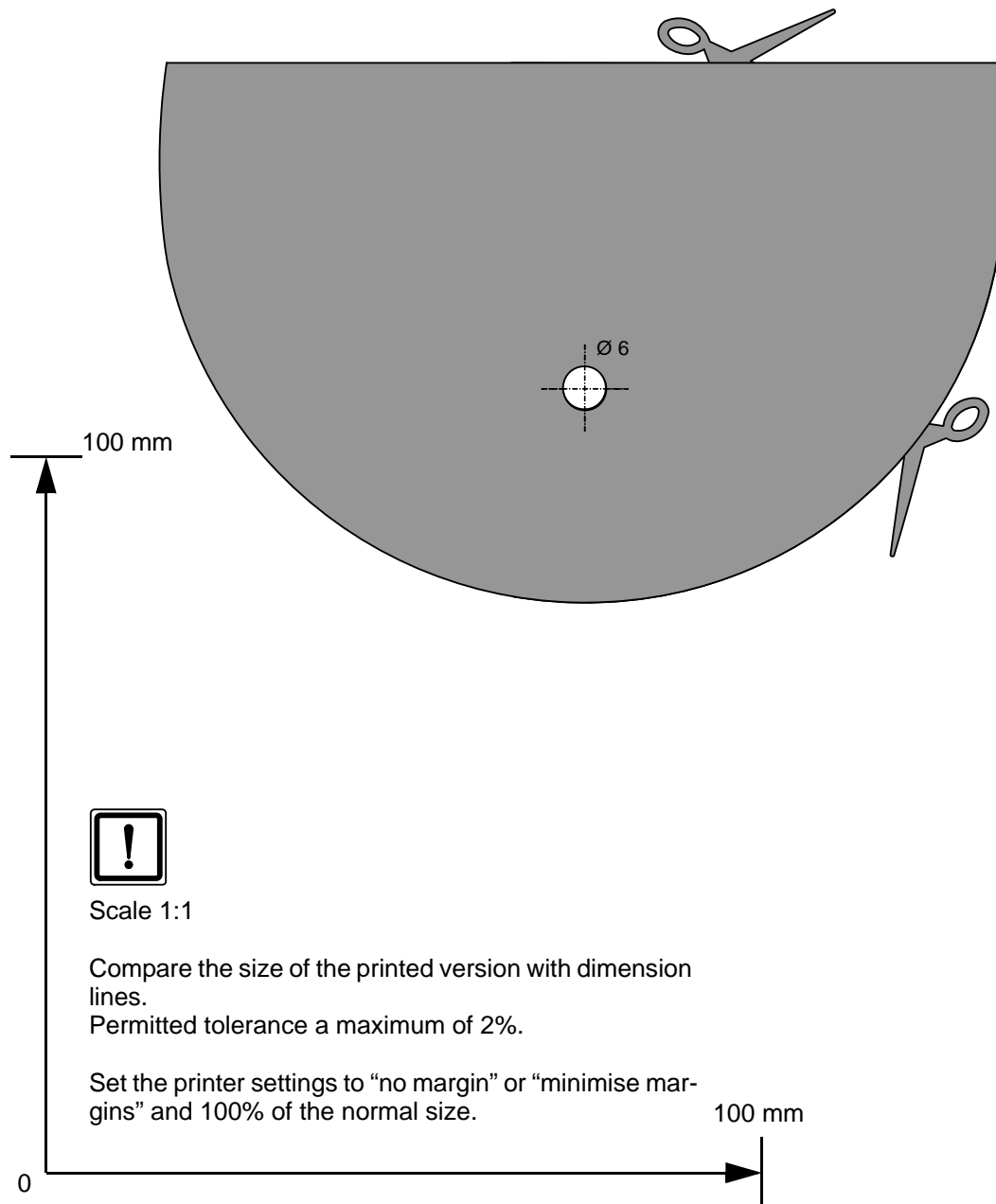
Aligning
exhaust
end sec-
tion

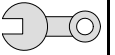
Webasto
Feel the drive

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(14 Cent aus dem deutschen Festnetz)
Hotfax: 0395 5592 353
Hotmail: technikcenter@webasto.com
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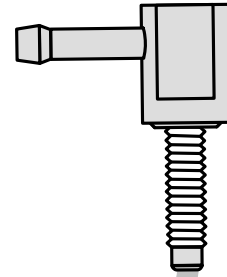


Template for fuel-tank sending unit





Template for Petrol Fuel Standpipe



100 mm



Scale 1:1

Compare the 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.

100 mm

0



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.

If the vehicle has passenger compartment monitoring, this must be deactivated in addition to the vehicle settings for the heating operation.

Instructions for deactivation are given in the Operating Manual of the vehicle!

Before parking the vehicle, make the following settings:



The fan speed need not be pre-selected.

- 1 Set temperature to "HI"
- 2 Air outlet to windscreen

**Automatic
air-conditioning**