

Water Heater Unit



Thermo Top V Additional Heater ^{e1} 00 0018

Installation Instructions

Mercedes Benz C Class W204 / S204

Gasoline

from Model Year 2007

Left-hand drive vehicle

AMG 950 Sports Package

Not on C 63 AMG



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.

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 |
|--------------|---------|-------|----------------------------|
| Daimler AG | C Class | W-204 | e1 * 2001/116 * 0431 * ... |
| Daimler AG | C Class | S-204 | e1 * 2001/116 * 0431 * ... |

| Type | Engine model | Output in kW | Displacement in cm ³ |
|--------------|--------------|--------------|---------------------------------|
| C 180 K | Gasoline | 115 | 1796 |
| C 200 K | Gasoline | 135 | 1796 |
| C230 | Gasoline | 150 | 2496 |
| C280 | Gasoline | 170 | 2996 |
| C 280 4Matic | Gasoline | 170 | 2996 |
| C350 | Gasoline | 200 | 3498 |
| C 350 4Matic | Gasoline | 200 | 3498 |

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.

Heater Unit/Installation Kit

| Quantity | Description | Order No.: |
|----------|--|------------|
| 1 | LU TT-V Mercedes Benz W204 Gasoline with Telestart T91 | 1312851A |

Optional heater control either:

| Quantity | Description | Order No.: |
|----------|--|----------------|
| 1 | Digital timer 1533 only in conjunction with mit Y-adapter | 9005753C |
| | | 9001505A |
| 1 | Thermo Call Comfort/Connect/Locate | See price list |

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



Foreword

These installation instructions apply to Mercedes Benz C Class W204 / S204 Gasoline vehicles - for validity, see page 2 - from model year 2007 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, where this is the case the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top V* should be observed. The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

The additional ventilation function is not possible!

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 should be fitted with edge protectors (split-open plastic hose).

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

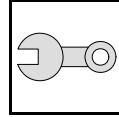
Special Tools

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

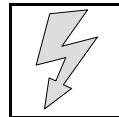
Explanatory Notes on Document

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.

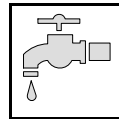
Mechanical system



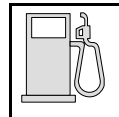
Electrical system



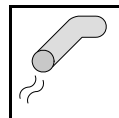
Water



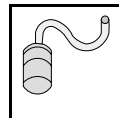
Fuel



Exhaust gas



Combustion air



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



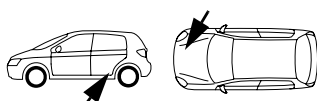
Specific risk of fire or explosion.



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!

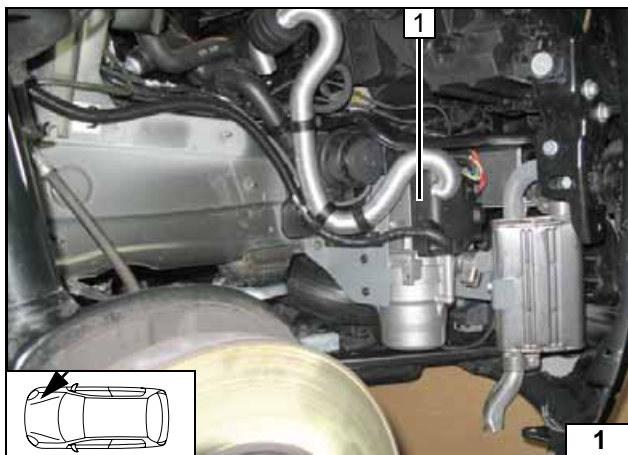
Tightening torque of hose clamps = 2.0 + 0.5 Nm!

Tightening torque of Ejet screws, Ejet studs = 10 Nm!

Preliminary Work

WARNING!

- Open fuel tank cap, ventilate tank.
- Close the tank cap again.
- 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.
- Remove the windshield wipers.
- Remove the coolant reservoir cap.
- Remove the dome strut on the left.
- Remove entire windshield wiper linkage with engine.
- Remove the battery cover in the engine compartment on the right.
- Open the cover of the central electrical box on the left in the engine compartment.
- Detach the central electrical box.
- Detach the coolant expansion tank.
- Take off the cover off the positive distributor in the engine compartment.
- Remove the air intake pipe on the right (V6 only).
- Remove the lower engine cover.
- Remove the lower right vehicle trim.
- Remove the right-hand wheel.
- Remove the right-hand wheel well trim.
- Remove the seat bench of the rear bench seat.
- Open the right-hand fuel sender service lid.
- Detach the fuel-tank sending unit on the right as described in the manufacturer's instructions.
- Remove the A/C control panel.
- Lift the shift lever cover.
- Remove the ashtray or storage compartment with the socket outlet below the A/C control panel.
- Remove the accelerator pedal.
- Remove the A-pillar trim in the footwell on the left.
- Remove the front left door sill cover.
- Remove the lower left instrument panel trim.
- Remove the front left floor trim.



Heater unit installation location

1 Heater unit

Installation
location



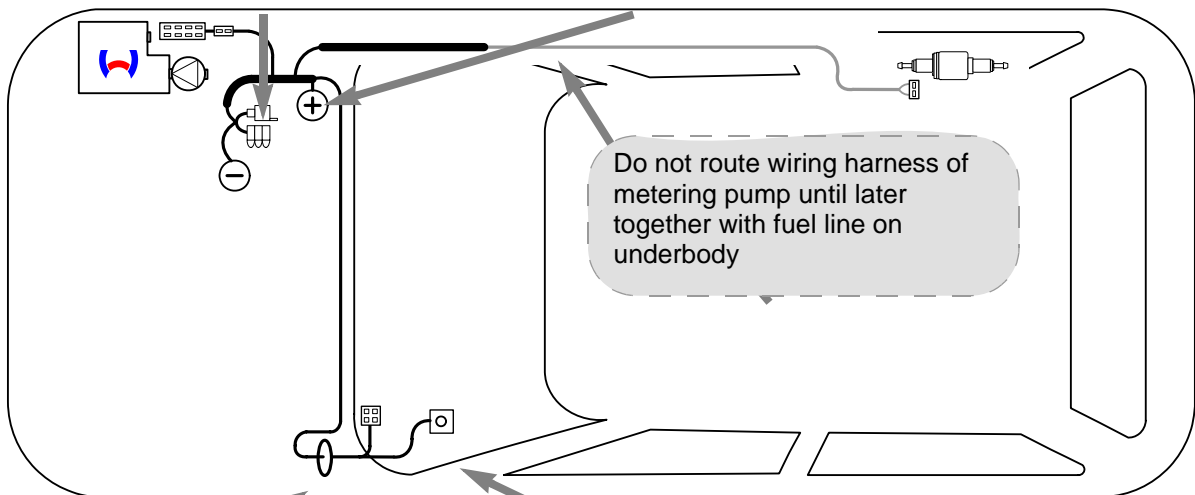
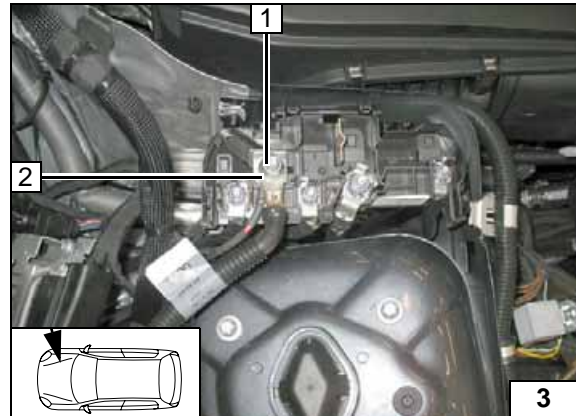
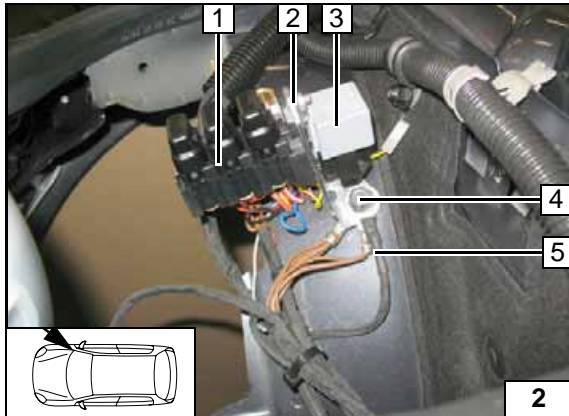
Electrical system

Fuse holder, relay K3

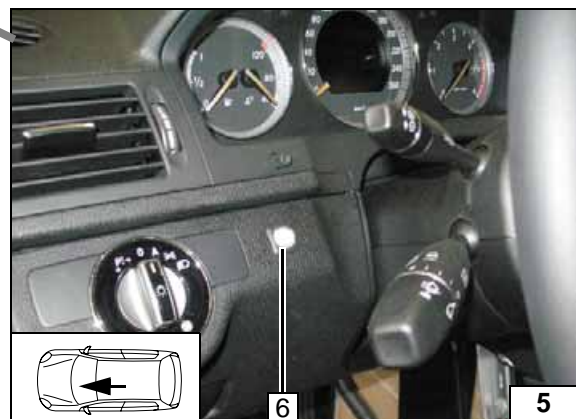
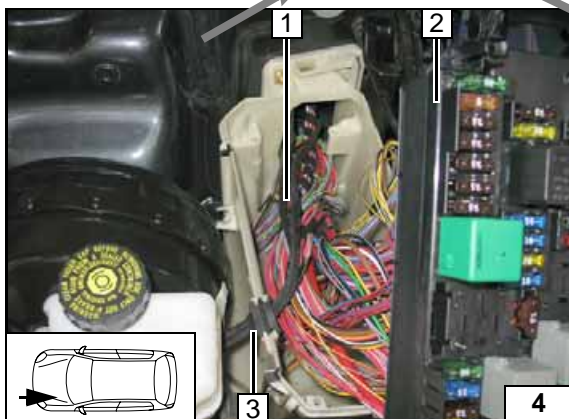
- 1 Fuse holder
- 2 Perforated bracket
- 3 K3 relay, M5x16 bolt, washer, M5 nut
- 4 Original vehicle nut, ground support point
- 5 Ground cable of heater unit, 6 mm dia. cable lug

Connection to positive support point

- 1 Positive support point (only use this!)
- 2 Positive cable of wiring harness for heater unit, crimp on 8 mm dia. cable lug



Wiring harness installation diagram

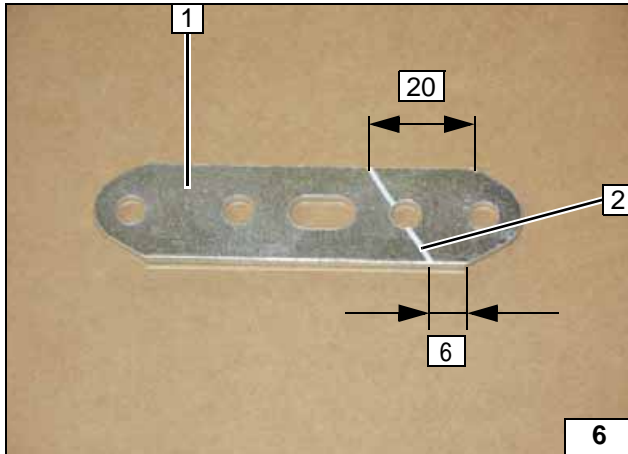


Wiring harness pass through

- 1 Wiring harness of heater control, wiring harness of fan controller relay K3
- 2 Central electrical box
- 3 Cable grommet

Push button

- 1 Push button, 16 mm dia. hole

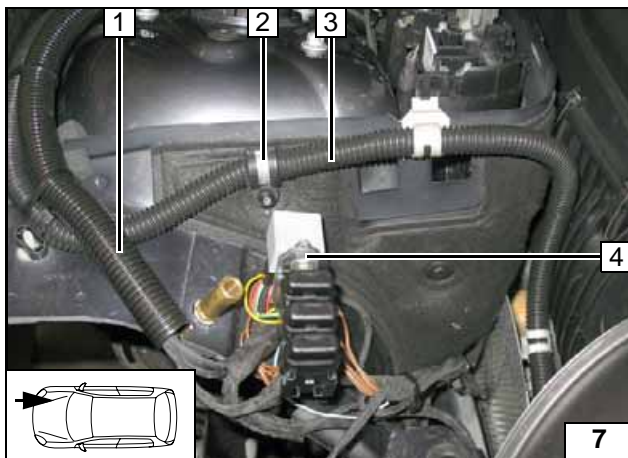


Preparing electrical system

Bend perforated bracket 1 on bending edge 2 by 90°.



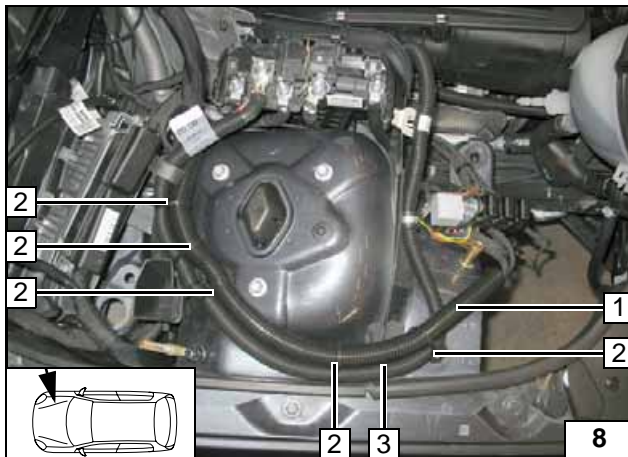
Bending perforated bracket



Fasten original vehicle wiring harness 3 with 15 mm dia. p-clamp 2 on stud bolt with plastic nut.



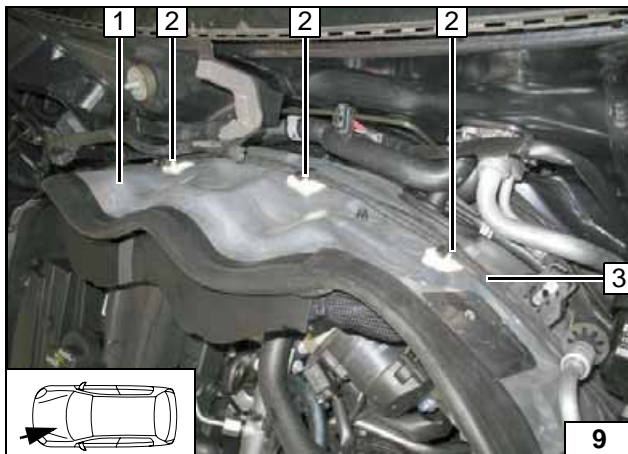
- 1 Route wiring harness of heater control, wiring harness of fan controller and cable of positive supply in 17 mm dia. corrugated tube
- 4 Perforated bracket



- 1 17 mm dia. corrugated tube
- 2 Cable tie [5x]
- 3 Original vehicle wiring harness



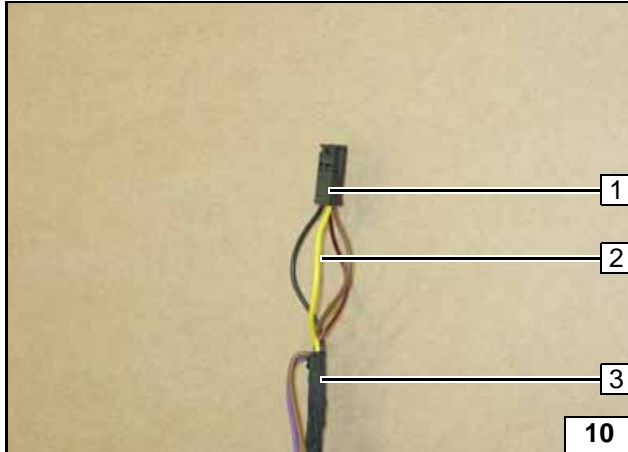
Cable routing in engine compartment



Glue adhesive base 2 [3x] to partition wall 1 and secure wiring harness of heater control and wiring harness of fan controller 3 with cable ties [3x]!



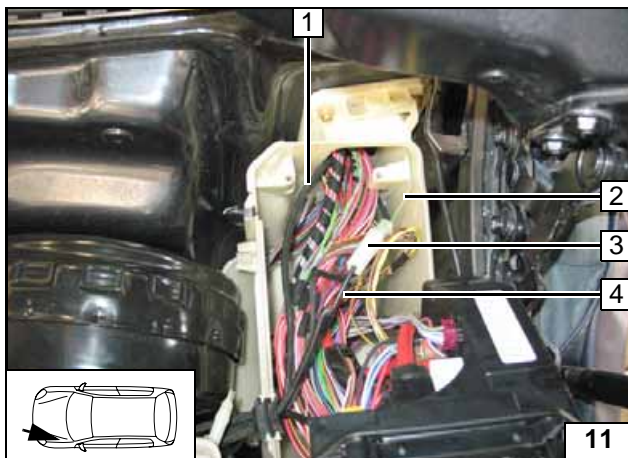
Cable routing in engine compartment



Mount yellow (ge) wire 2 in free socket of 4-pin connector 1 of heater-unit wiring harness 3.



Preparing wiring harness of heater unit



Connect green/white (gn/ws) wire 2 with connectors 3 to black (sw) wire 4, insulate red (rt) wire and tie back.

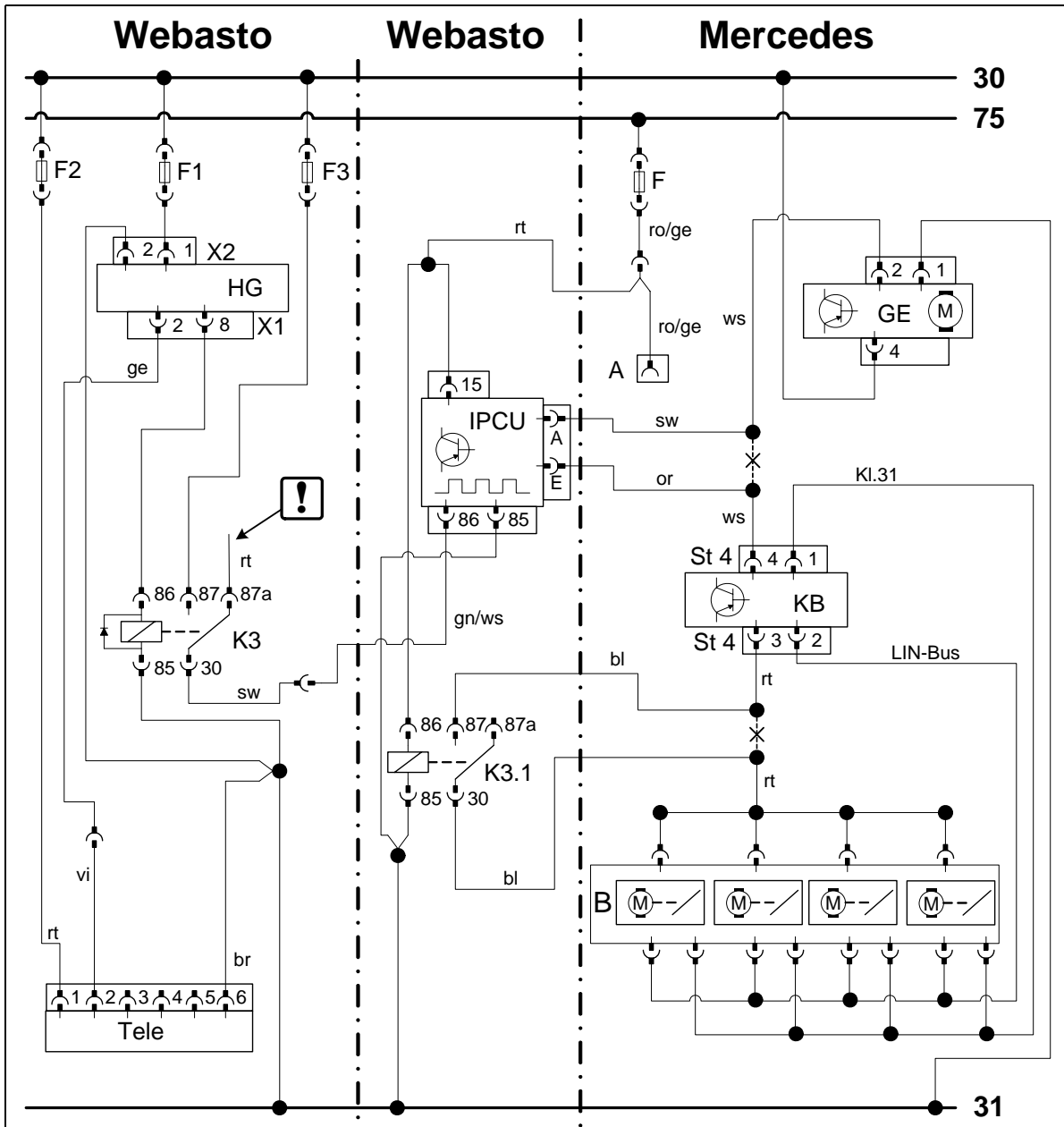


1 Wiring harness of heater control

Extending black (sw) wire



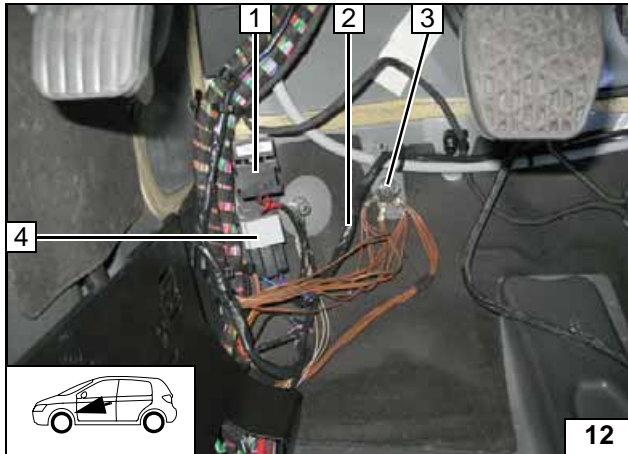
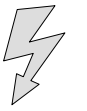
Automatic air-conditioning fan controller



Wiring diagram

| Webasto components | | Vehicle components | | Colors and symbols | |
|--------------------------------|-----------------------|--------------------|--------------------------------|-------------------------|---------------------------------|
| HG | TT-V heater unit | ge | Fan unit | rt | red |
| X1; X2 | Connector HG | KB | Air-conditioning control panel | ws | white |
| F1 | Fuse, 20 A | A | Socket outlet/lighter | sw | black |
| F2 | 1 A fuse | B | Flap positioning module | bl | blue |
| F3 | Fuse 5A | F | Fuse | ro | pink |
| K3 | Relay | ST 4 | Connector, 4-pin, KB | ge | yellow |
| K3.1 | Relay | | | or | orange |
| IPCU | Pulse width modulator | | | vi | violet |
| Tele | Telestart | | | | |
| IPCU adjustment values: | | | | | |
| Duty cycle: 31 % | | | | | Insulate wire ends and tie back |
| Frequency: 300 Hz | | | | | |
| Voltage: 7.4 V | | | | X | Cutting point |
| Function: Low-side | | | | Wiring colors may vary. | |

Legend

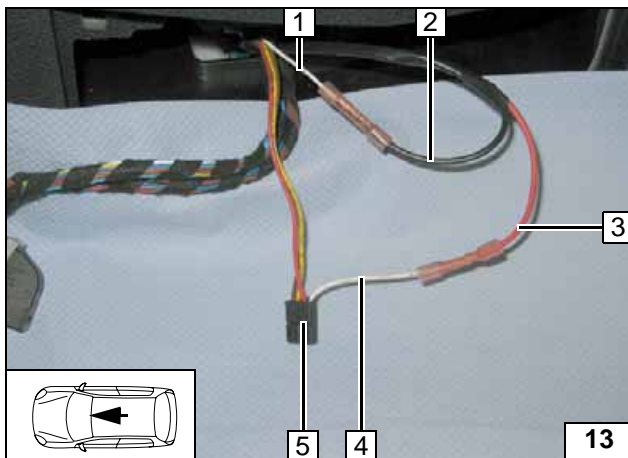


Route additional wiring harness of fan controller **2** to center console, connect according to wiring diagram and secure with cable ties.

- 1** IPCU, adhesive tape
- 3** Ground point
- 4** Relay K3.1, adhesive tape



Connecting and routing wiring harness

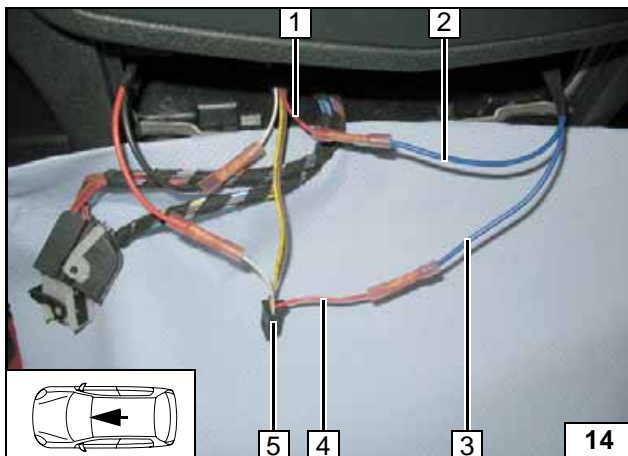


Connection to 4-pin connector **5** from A/C control element.
Produce connections as shown in wiring diagram.

- 1** White (ws) wire
- 2** Black (sw) wire of IPCU/A
- 3** Orange (or) wire of IPCU/E
- 4** White (ws) wire of connector



Connecting A/C control panel

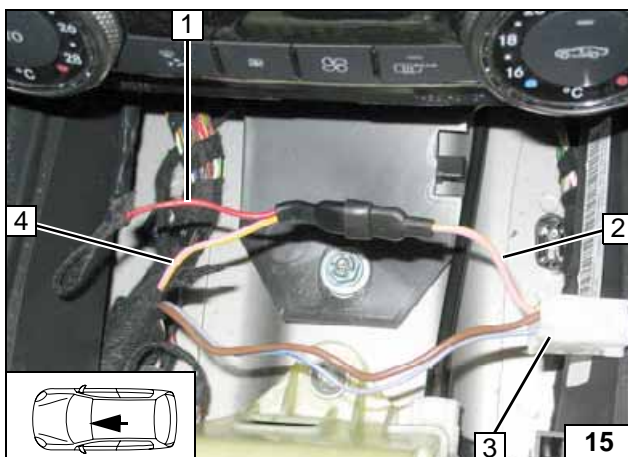


Connection to 4-pin connector **5** from A/C control element.
Produce connections as shown in wiring diagram.

- 1** Red (rt) wire
- 2** Blue (bl) wire K3.1
- 3** Blue (bl) wire K3.1
- 4** Red (rt) wire of connector



Connecting A/C control panel



Connection to plug-in connector **3** of socket outlet/lighter.
Produce connections as shown in wiring diagram.

- 1** Red (rt) wire K3.1/86, IPCU/15
- 2** Pink/yellow (ro/ge) wire
- 4** Pink/yellow (ro/ge) wire

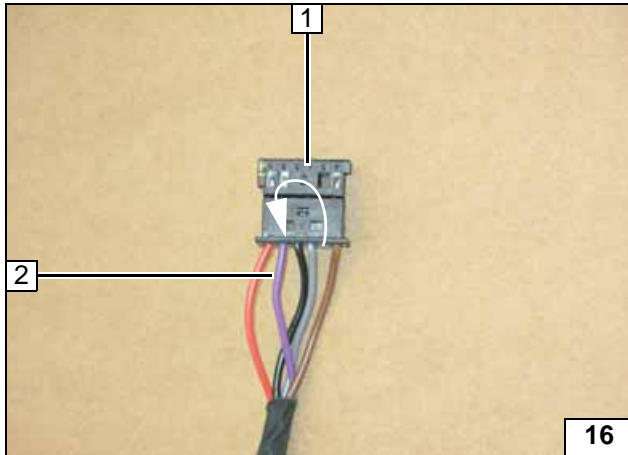


Connection to socket outlet/lighter



Heater controls

Telestart and push button combination



Move violet (vi) wire 2 from socket 5 to socket 2 in 6-pin connector of Telestart 1.



Preparing Telestart connector

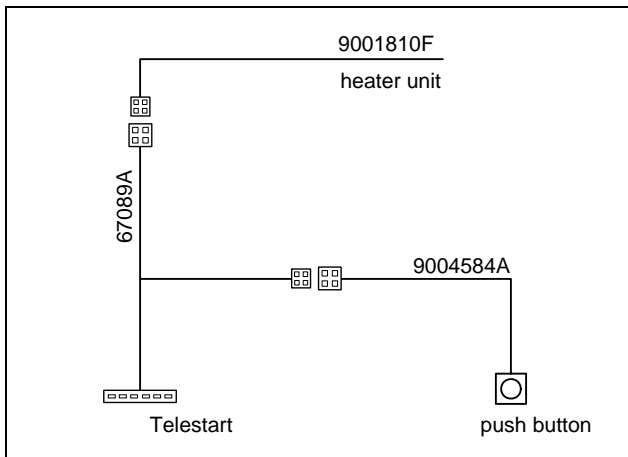
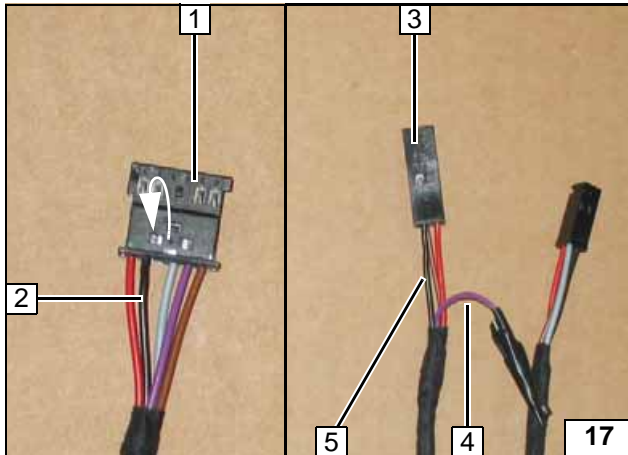


Diagram of standard heater controls



Combination of digital timer, Telestart and/or Thermo Call with push button



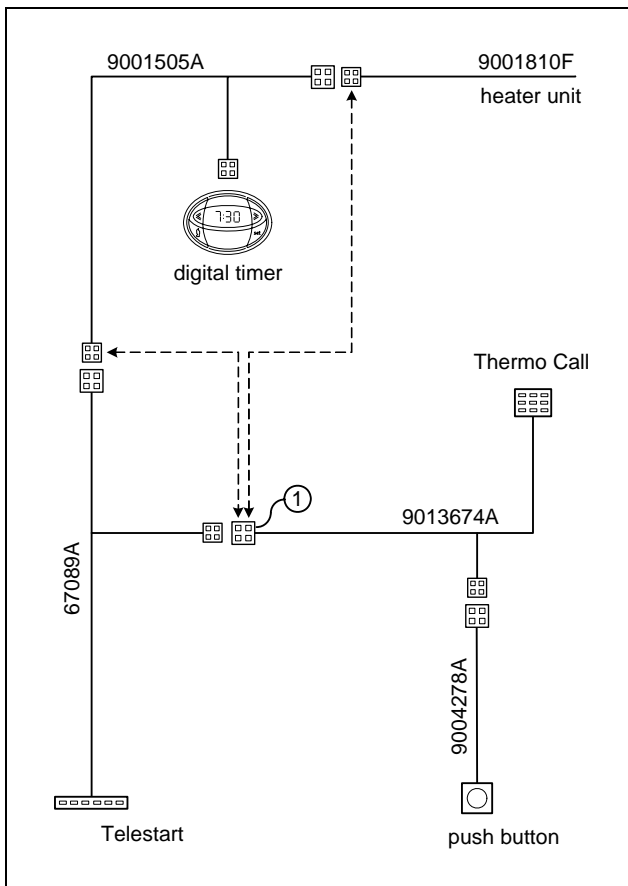
Move black (vi) wire 2 from socket 3 to socket 2 in 6-pin connector of Telestart 1.

Remove violet (vi) wire 4 from socket 1 from 4-pin connector housing 3, insulate and tie back.

Remove black (sw) wire 5 from socket 2 and insert in socket 1.



Preparing adapter wiring harness (67089A)



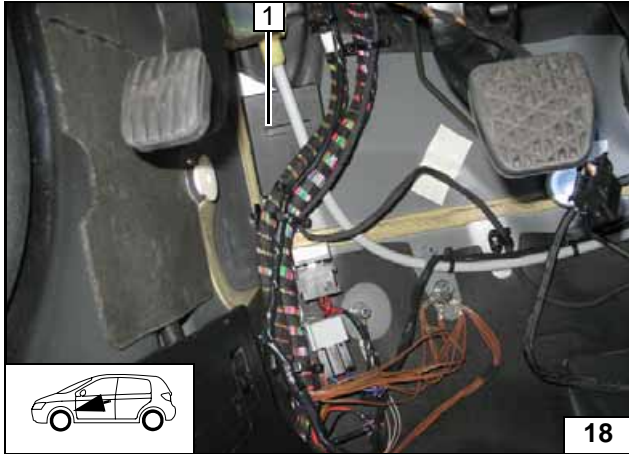
Selection of individual heater controls can be combined with each other!

WARNING:

1 Insert yellow (ge) wire in free socket



Diagram of optional heater controls



Telestart

1 Receiver, adhesive tape



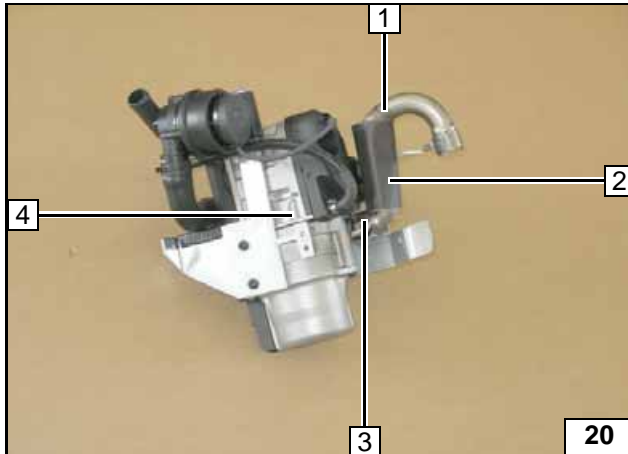
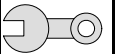
Installing receiver



Glue antenna 1 onto windshield, if possible in black area.



Installing antenna

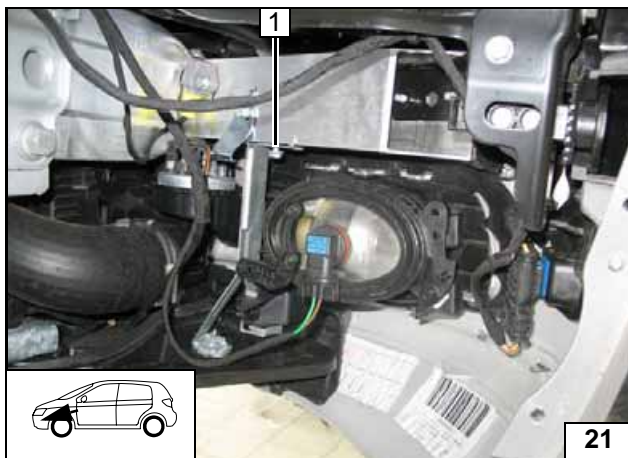


Preparing heater unit

- 1 Exhaust pipe
- 2 Pipe insulation, 80 mm
- 3 Hose clamp
- 4 Heater unit



Premounting ex-haust pipe

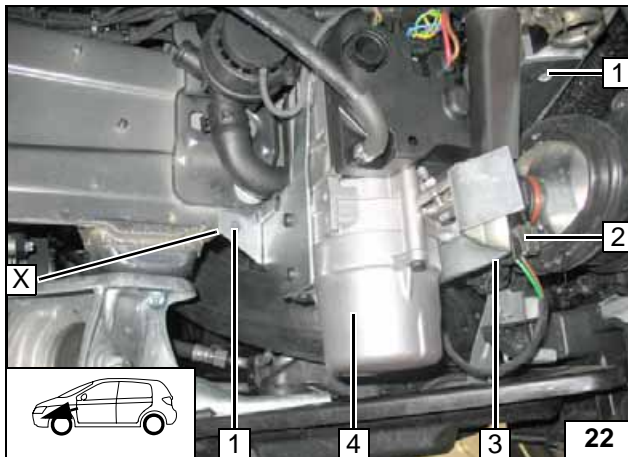


Preparing installation location

Loosen original vehicle bolt 1.



Copying hole pattern



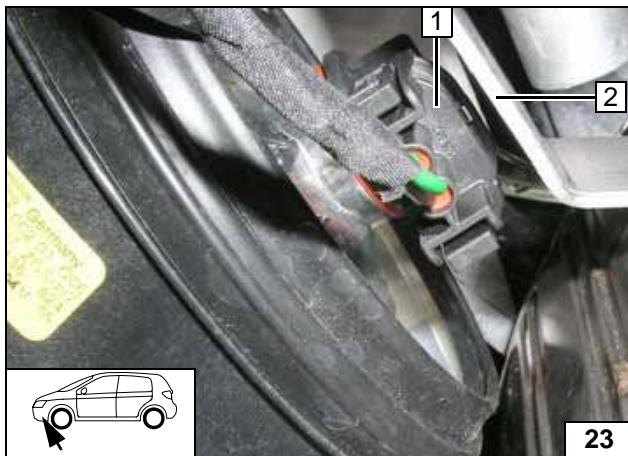
Insert premounted heater unit 4 into previously loosened bolt 1, align and ensure proper spacing between connector of front fog light 2 and bracket 3 (**at least 4 mm**). If necessary, turn headlight washer system and fix in place with cable tie.



Copying hole pattern

Remove joint sealer in area X on inside of frame side member in area hole.

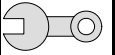
- 1 Copy 7 mm dia. hole pattern [2x]



Ensure proper spacing between connector of front fog light 1 and bracket 2 (**at least 4 mm**).



Copying hole pattern



Remove front fog light for 7 mm dia. hole 2.

1 7 mm dia. hole



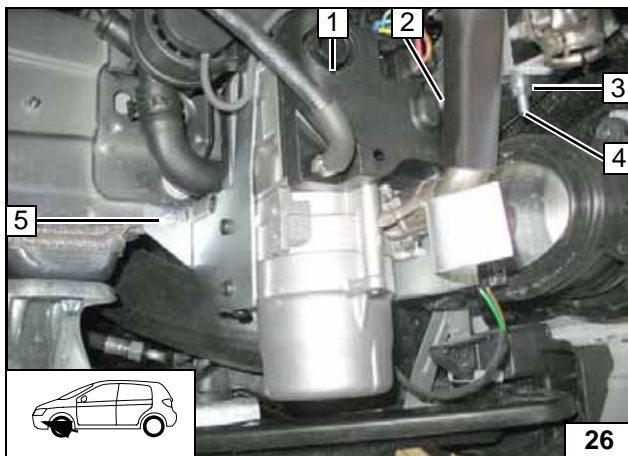
Hole pattern



M6x20 bolt 1, insert pin lock in hole. Remount front fog light.



Preparing installation location



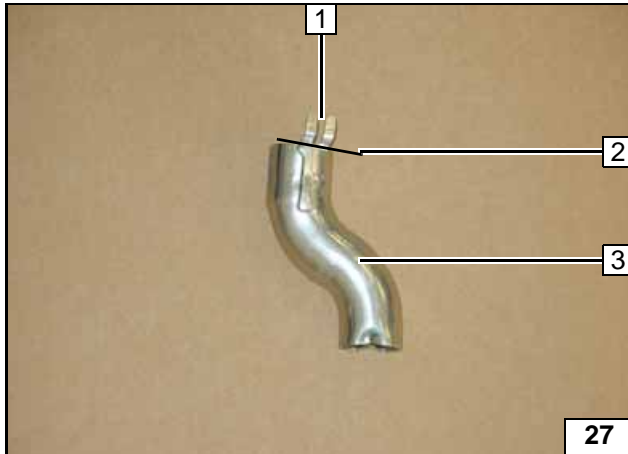
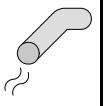
Installing heater unit

Place bracket of premounted heater unit 1 on bolt 4, slide bracket under loosened bolt 2 (covered) and secure with flanged nut 3. Check distance to front fog light. Tighten bolt 2.

5 M6x20 bolt, flanged nut



Installing heater unit



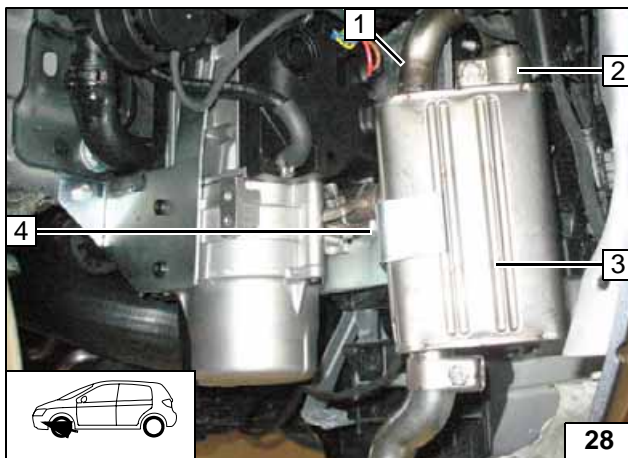
Exhaust gas

Cut tab 1 off exhaust end section 1.

2 Cutting point



Preparing exhaust end section



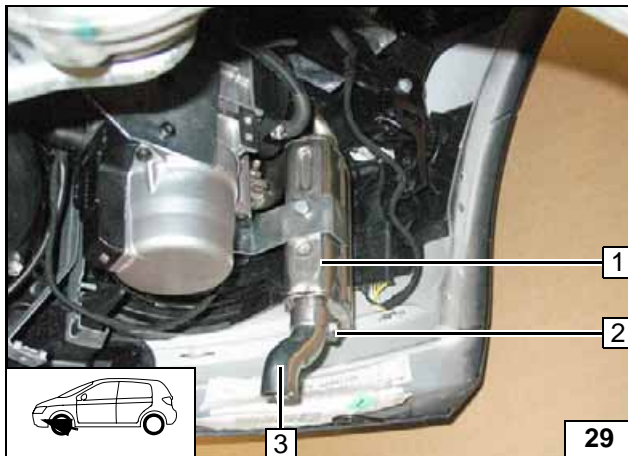
Mount exhaust muffler 3 on exhaust pipe 1 and align relative to hole 4.

2 Hose clamp

4 M6x12 bolt, spring lockwasher



Installing muffler



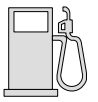
Do not slide exhaust end section 3 completely onto exhaust muffler 1 (5 mm distance to muffler 1).

Check distance from exhaust muffler to plastic parts of bumper.

2 Hose clamp



Installing exhaust pipe and end section



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.

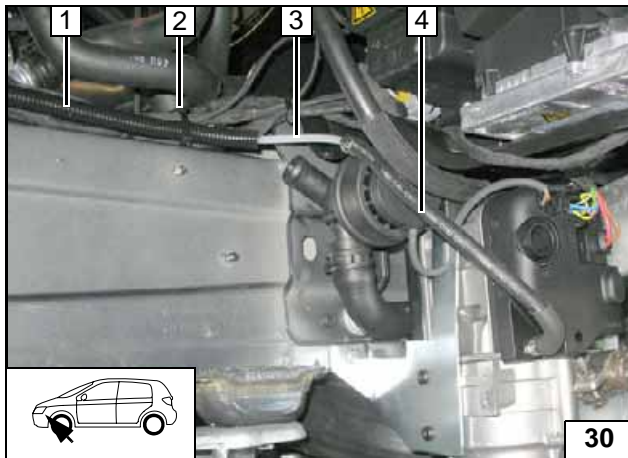
Install fuel line and metering-pump wiring harness so that they are protected against stone impact.

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.

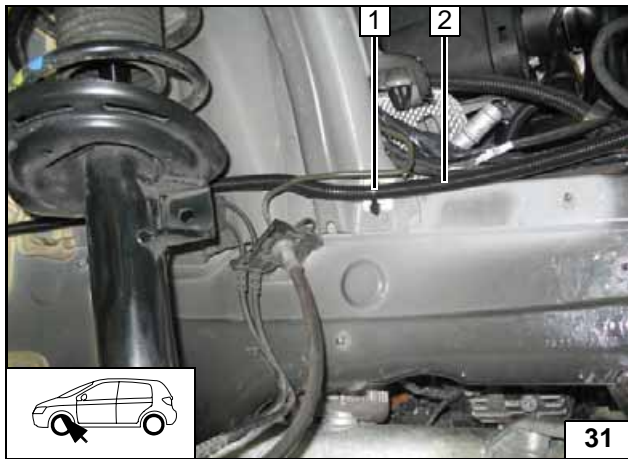


All vehicles

Pin out connector housing of metering-pump wiring harness before pulling into corrugated tube.

- 1 9 mm dia. corrugated tube, wiring harness of metering pump
- 2 Cable tie
- 3 Fuel line, 10 mm dia. clamp
- 4 Molded hose of heater unit

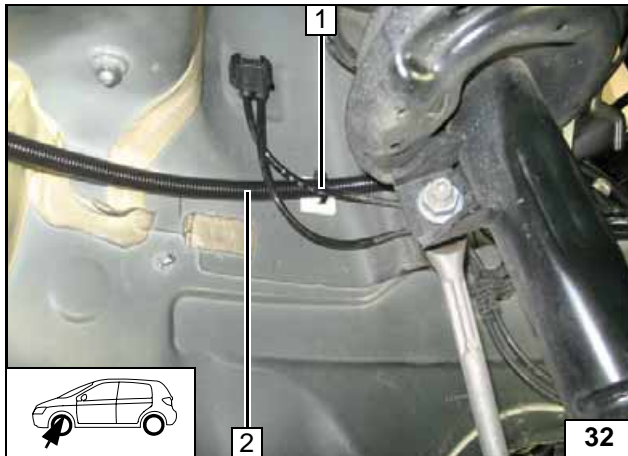
Connection to heater unit



Degrease adhesive surface for adhesive base 1.

- 1 Adhesive base, cable tie
- 2 Corrugated tube

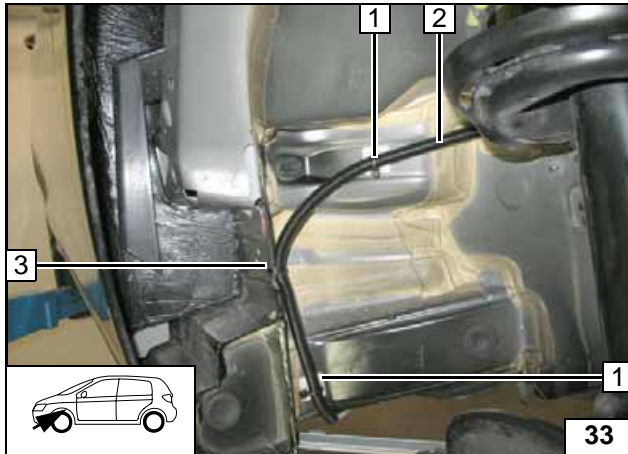
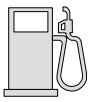
Installing lines



Degrease adhesive surface for adhesive base 1.

- 1 Adhesive base, cable tie
- 2 Corrugated tube

Installing lines

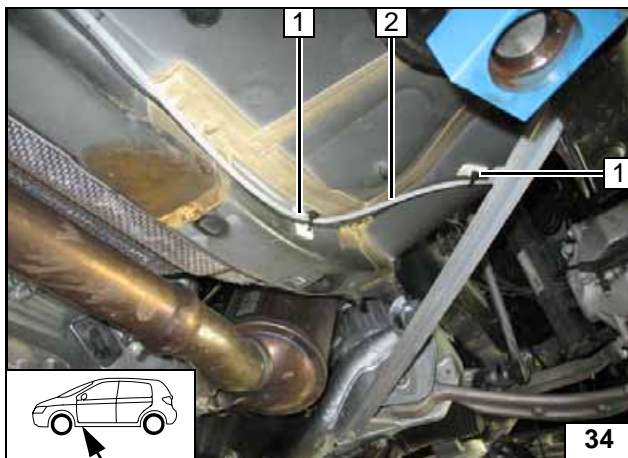


Degrease adhesive surface for adhesive base 1.

- 1 Adhesive base [2x], cable tie [2x]
- 2 Corrugated tube
- 3 Cable tie, existing hole



Installing lines

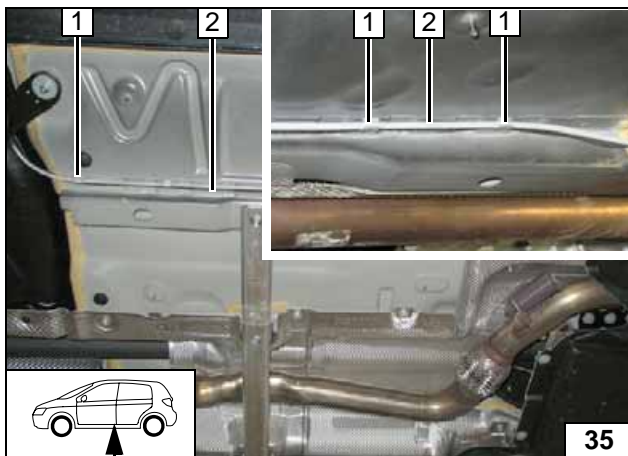


Degrease adhesive surface for adhesive base 1.

- 1 Adhesive base [2x], cable tie [2x]
- 2 Fuel line, wiring harness of metering pump



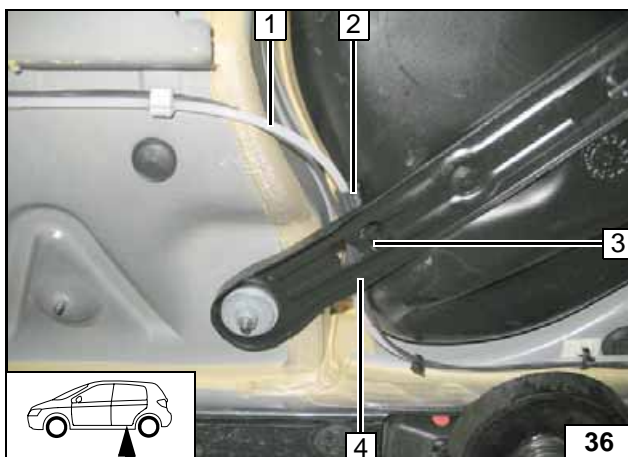
Installing lines



Distribute retaining clips 1 [10x] evenly along vehicle underbody and insert fuel line 2 and wiring harness of metering pump 2.

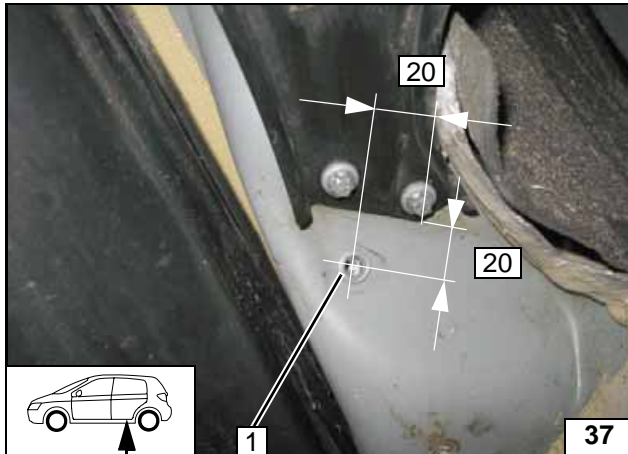


Installing lines



- 1 Fuel line, wiring harness of metering pump
- 2 Dia. 8x12 hose piece
- 3 Cable tie
- 4 Original vehicle retaining strap

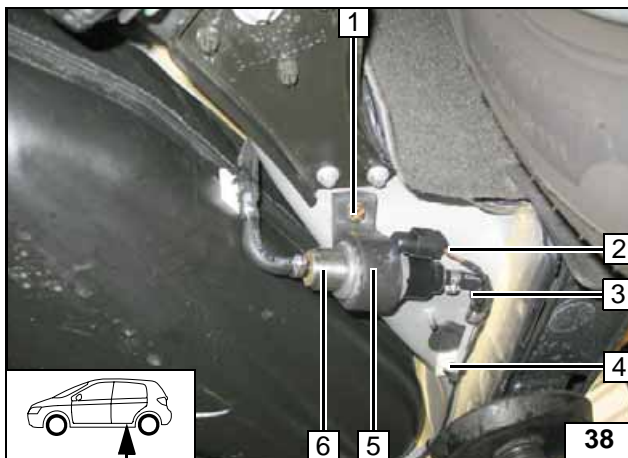
Installing lines



Drill 9.1 mm dia. hole 1, mount M6 rivet nut.



Rivet nut for metering pump

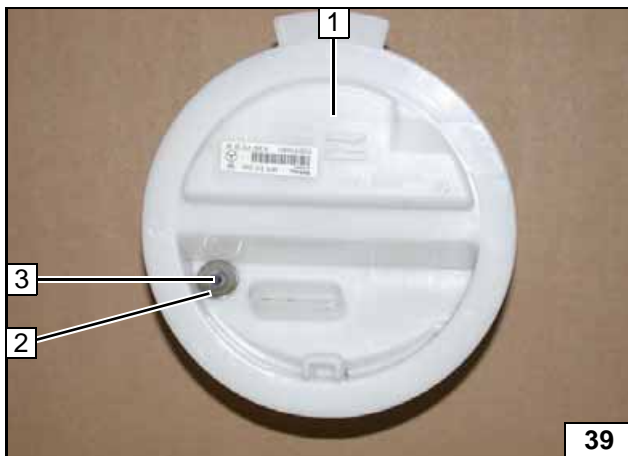


Mount connector housing of ing pump cable 2 on wiring harness again. Degrease adhesive surface for adhesive base 4.



Installing metering pump

- 1 M6x25 bolt
- 2 Metering pump connector
- 3 90° molded hose, 10 mm dia. clamp [2x], fuel line
- 4 Adhesive base, cable tie
- 5 Mount
- 6 Metering pump



Version 1

Remove fuel-tank sending unit 1 in accordance with manufacturer's specifications.

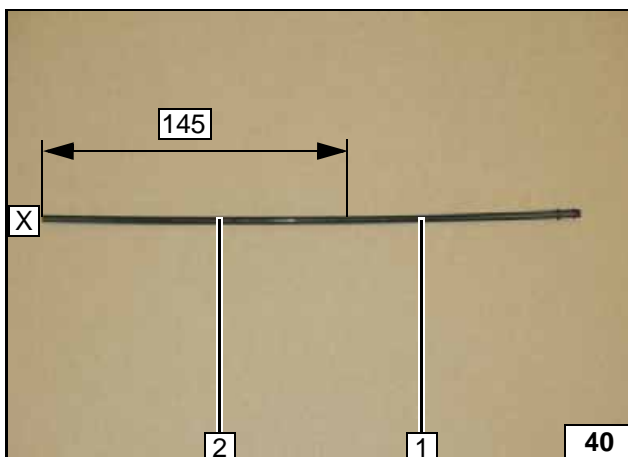


Removing fuel

When drilling, make sure drilling chips do not get into fuel-tank sending unit.

Lay on 17.6 mm dia. large diameter washer 2 and copy hole pattern for 6 mm dia. hole

- 3 6 mm dia. hole



Cut off standpipe 2 at an angle at position X.



- 1 Section, discard

Cutting standpipe to size

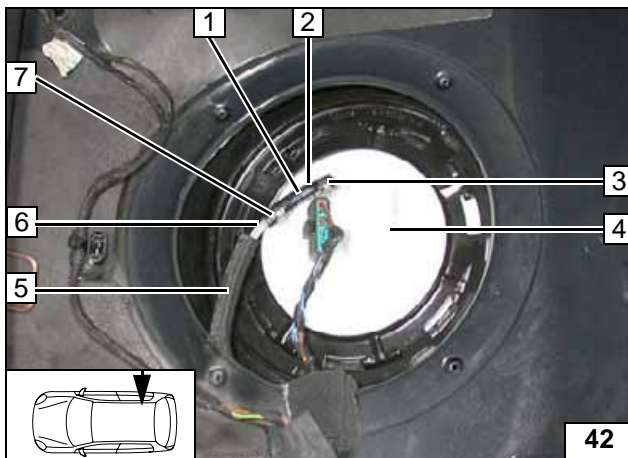


Observe tightening torque 5 Nm of flanged nut **6** on fuel standpipe **7**.
Mount 3.5 mm dia. molded hose **4** on fuel standpipe **7**.

- 1** Fuel-tank sending unit
- 2** Standpipe
- 3** 10 mm dia. clamp
- 5** 8 mm dia. clamp



Installing fuel standpipe

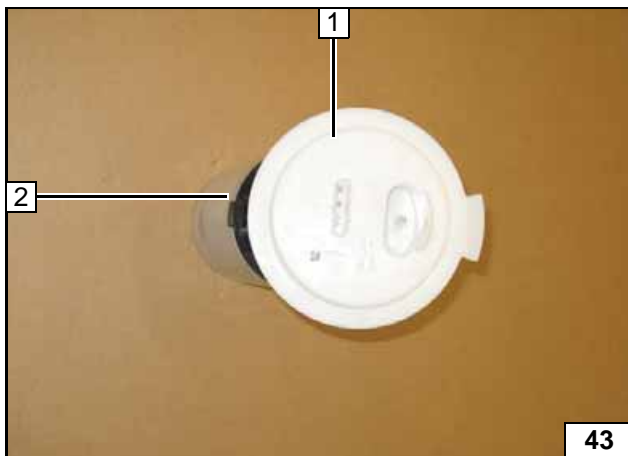


Install fuel-tank sending unit **4** in accordance with manufacturer's specifications.
Mount 3.5 mm dia. hose **1** on fuel standpipe **3**.

- 2** 8 mm dia. clamp
- 5** 6x11 hose (rattle protection)
- 6** Fuel line
- 7** 10 mm dia. clamp



Installing line



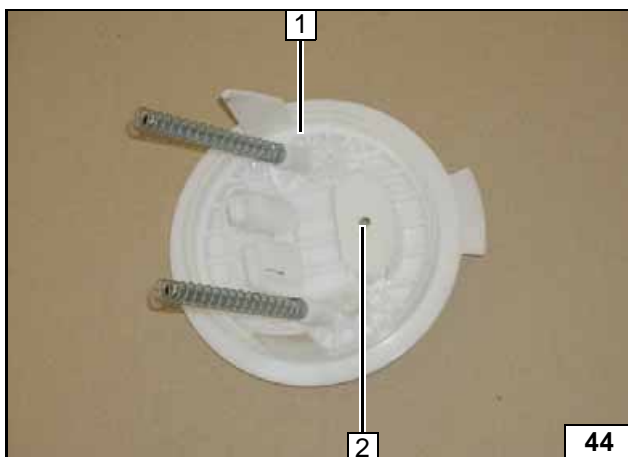
Version 2

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

Remove upper section **1** from lower section **2** in accordance with manufacturer's instructions.



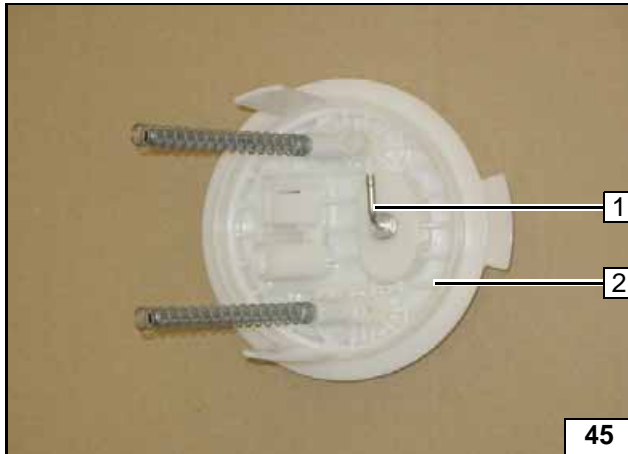
Removing fuel



Cut off connection piece **2** flush on underside **1**. Drill 6 mm dia. hole in center.



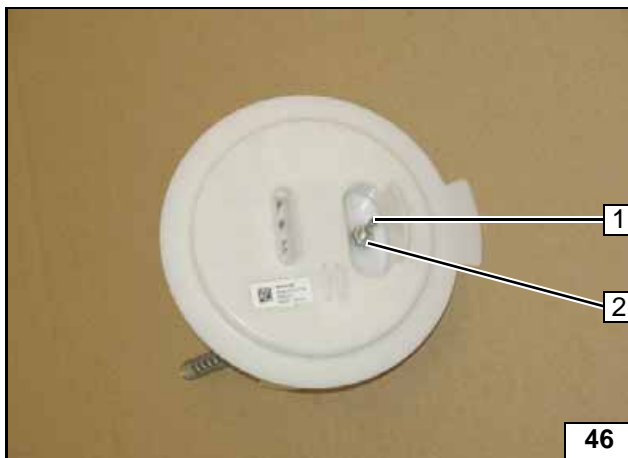
Removing fuel



Insert fuel standpipe 1 in upper section of fuel-tank sending unit 2



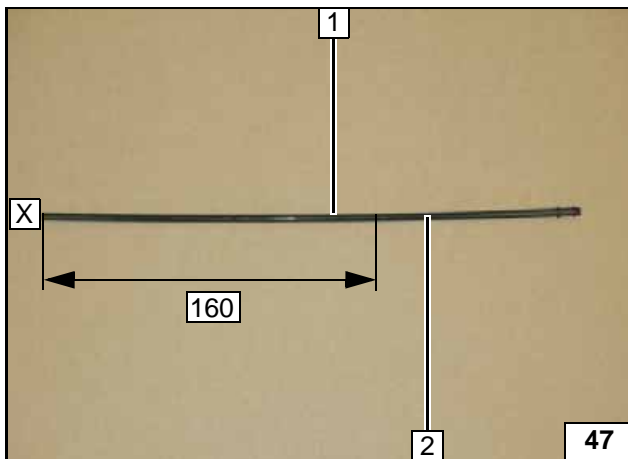
Removing fuel



Observe tightening torque 5 Nm of flanged nut 2 on fuel standpipe 1.



Removing fuel

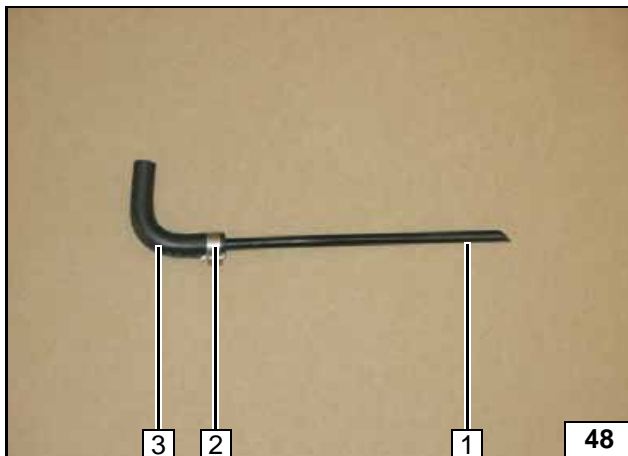


Cut off standpipe 1 at an angle at position X.

2 Section, discard



Cutting standpipe to size

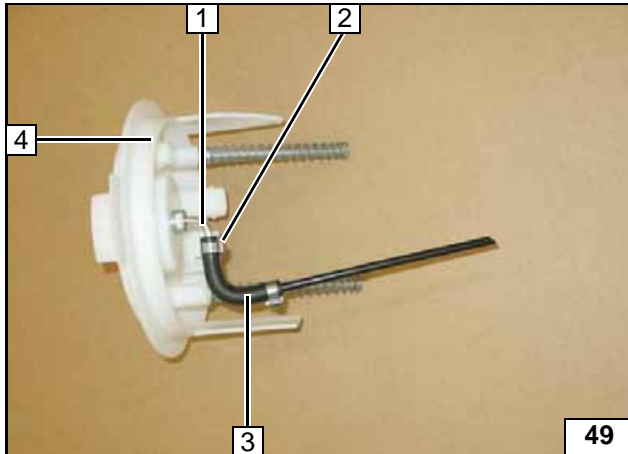
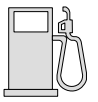


Mount standpipe 1 in 4.5 mm dia. molded hose 3.

2 10 mm dia. clamp



Premounting standpipe

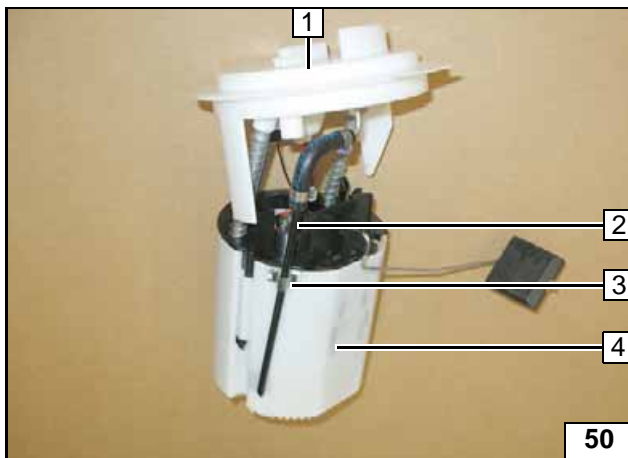


Premount standpipe 3 on fuel standpipe 1 and secure with 8 mm dia. clamp 2.

4 Fuel-tank sending unit



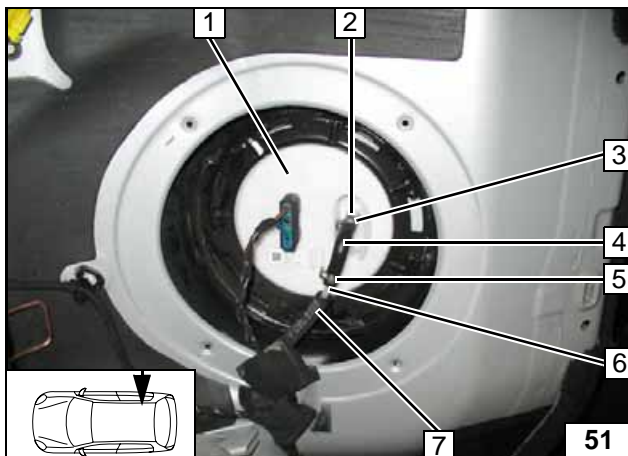
Installing standpipe



Install fuel-tank sending unit 1 in accordance with manufacturer's specifications. Insert line holder 3 for guiding standpipe 2 in lower section of fuel-tank sending unit 4.



Installing standpipe

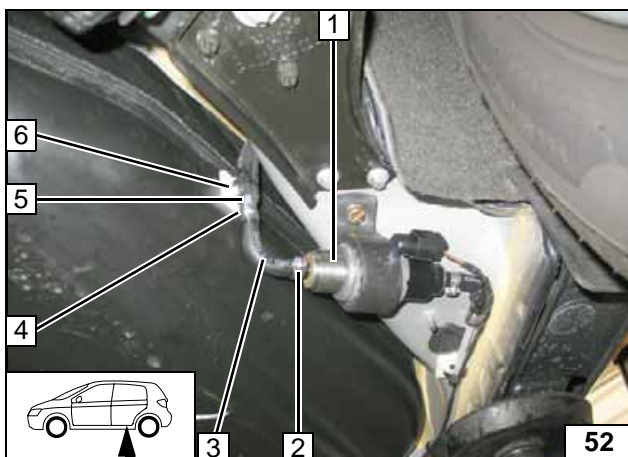


Install fuel-tank sending unit 1 in accordance with manufacturer's specifications. Mount 3.5 mm dia. molded hose 4 on fuel standpipe 2.

- 3 8 mm dia. clamp
- 5 10 mm dia. clamp
- 6 Fuel line
- 7 6x11 hose (rattle protection)



Installing line

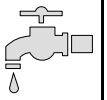


All vehicles

Degrease adhesive surface for adhesive base 6.

- 1 Metering pump
- 2 10 mm dia. clamp
- 3 90° molded hose
- 4 10 mm dia. clamp
- 5 Fuel line
- 6 Cable tie, adhesive base

Connecting to metering pump

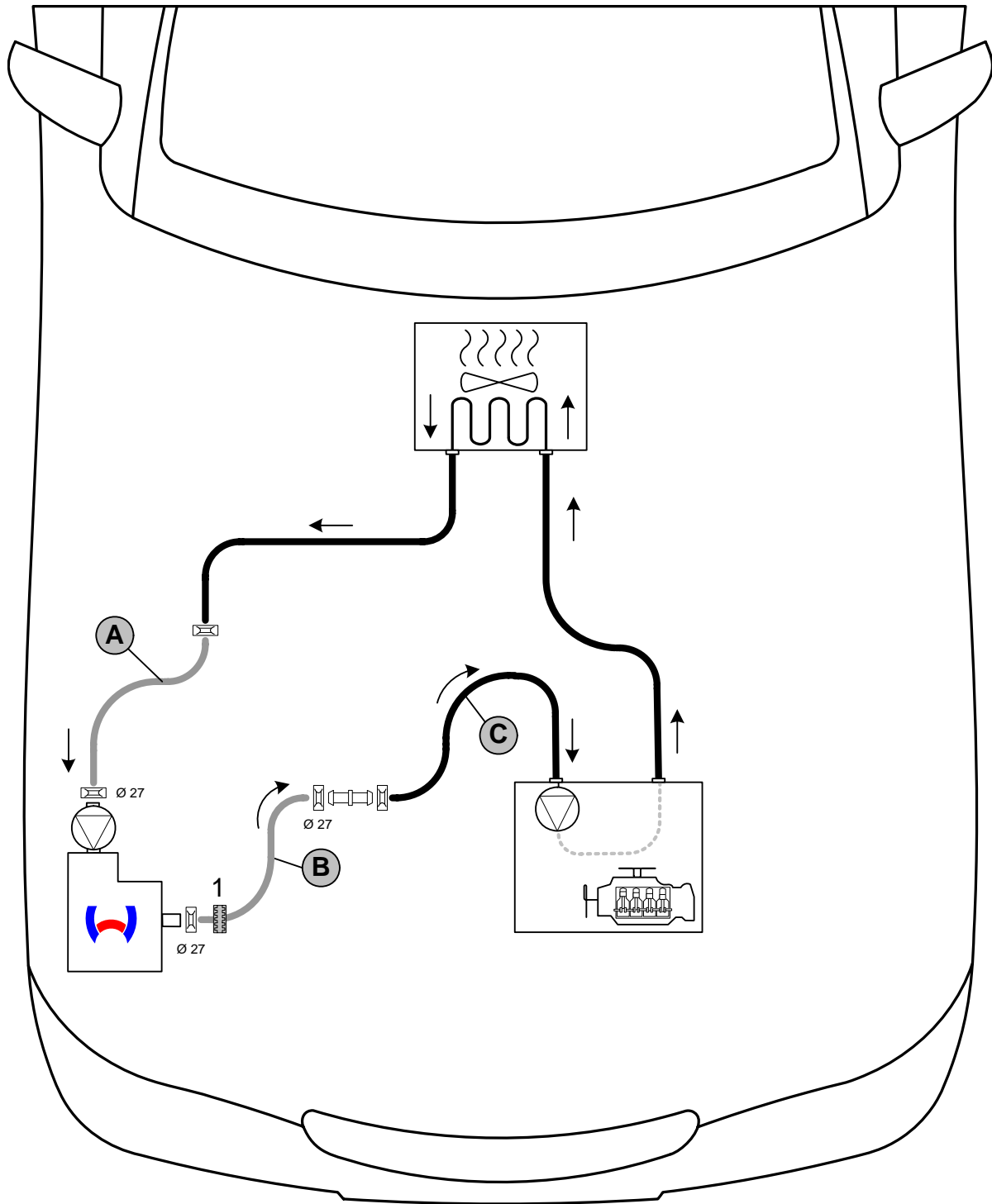


Coolant connection C 180 K / C 200 K without electr. circulating pump




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 coolant hose, the heater unit must be filled with coolant.

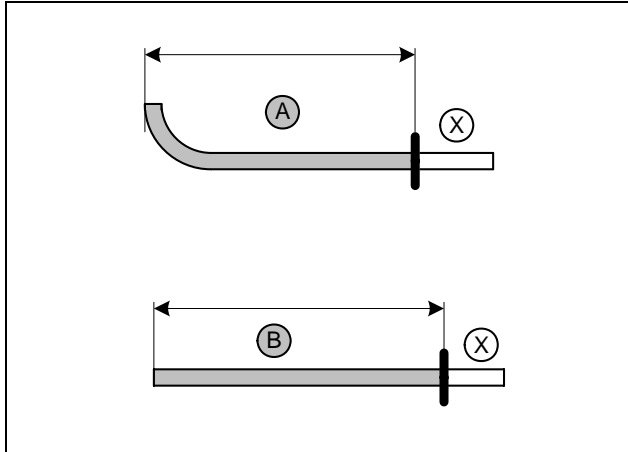
The connection should be "inline" based on the following diagram:



Coolant
routing
diagram

All spring clips without a specific designation  = 25 mm dia. Connecting pipe  = 18x20 dia.
1 = Black (sw) rubber isolator .



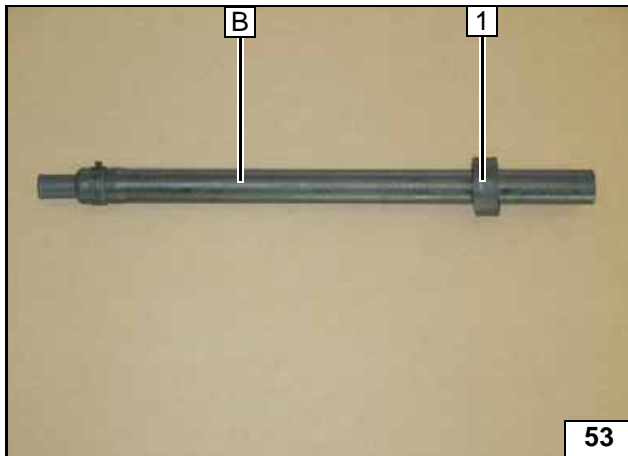


Discard section **X**.

A = 18 mm dia., length = 210

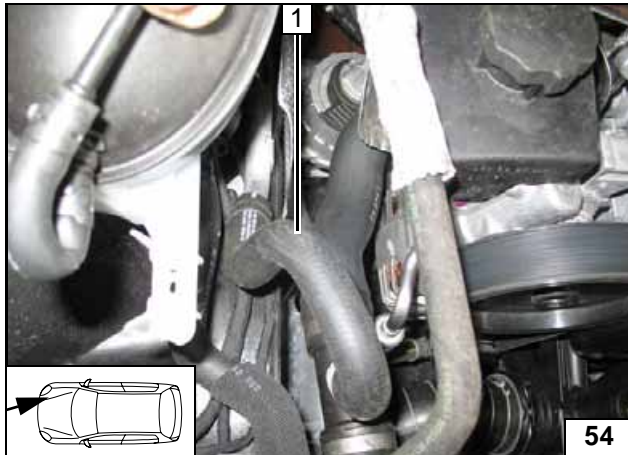
B = 20 mm dia., length = 265

**Cutting
coolant
hoses to
length**



1 Black (sw) rubber isolator

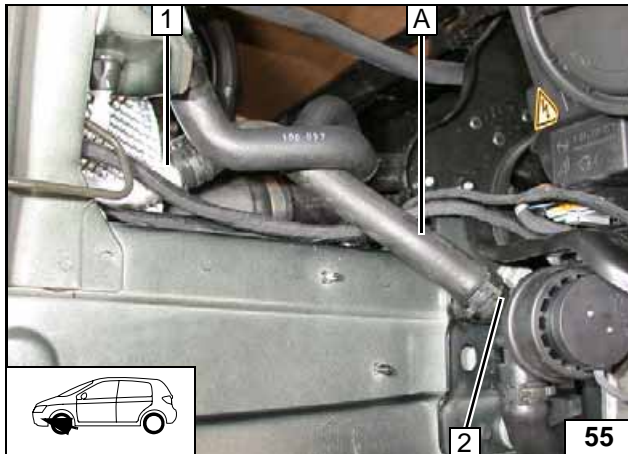
**Preparing
coolant
hose**



Remove original vehicle hose **1**; hose will be reused.



**Cutting
point**

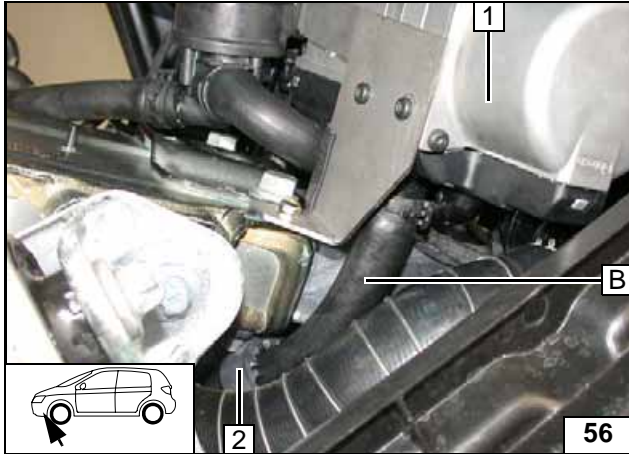
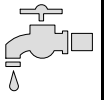


1 Connection to pipe socket on heat exchanger outlet

2 Connection to heater-unit circulating pump



**Connec-
tion to
heater unit**

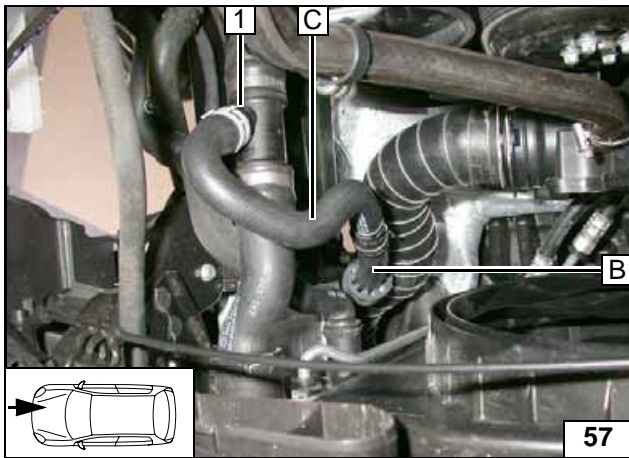


Align black (sw) rubber isolator 2.

1 Heater unit



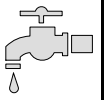
Conne-
ction to
heater unit



Hose C turned on connection piece 1.



Conne-
ction on en-
gine inlet

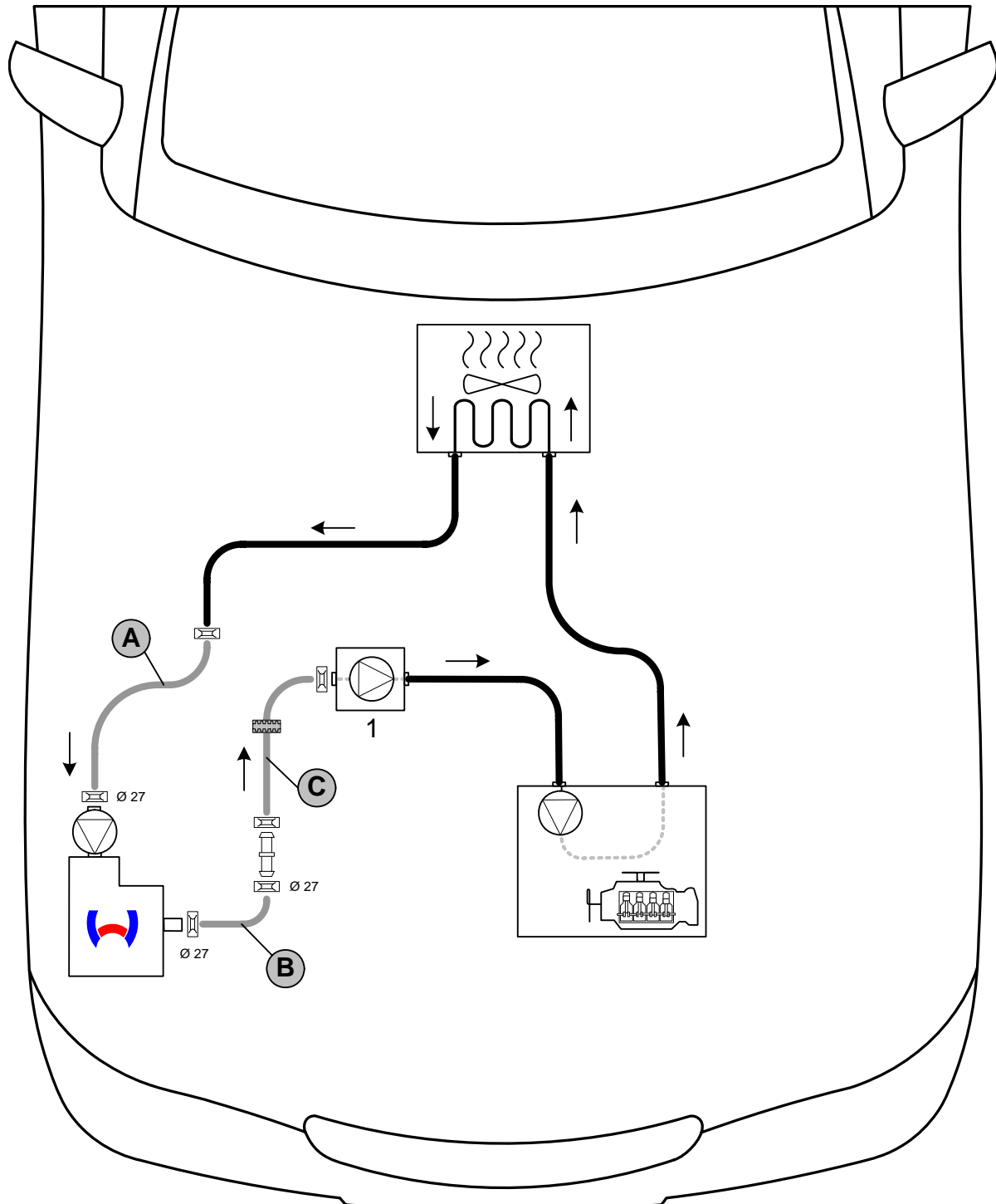


Coolant connection C 230 / C 280 / C 350 with electr. circulating pump




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 coolant hose, the heater unit must be filled with coolant.

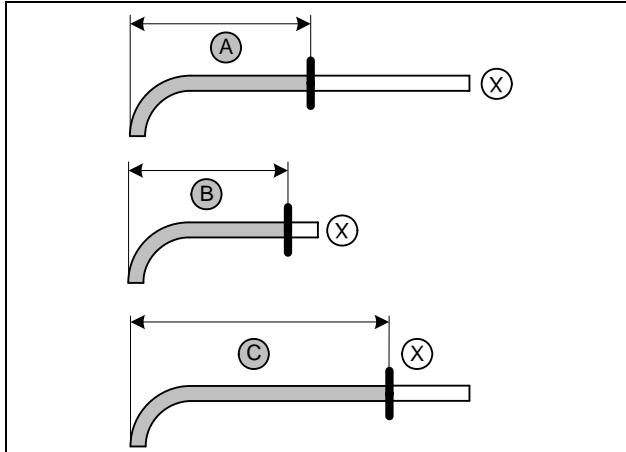
The connection should be "inline" based on the following diagram:



Coolant
routing
diagram

All spring clips without a specific designation  = 25 mm dia. Connecting pipe  = 18x20 dia.
1 = Original vehicle circulating pump.  = black (sw) rubber isolator.

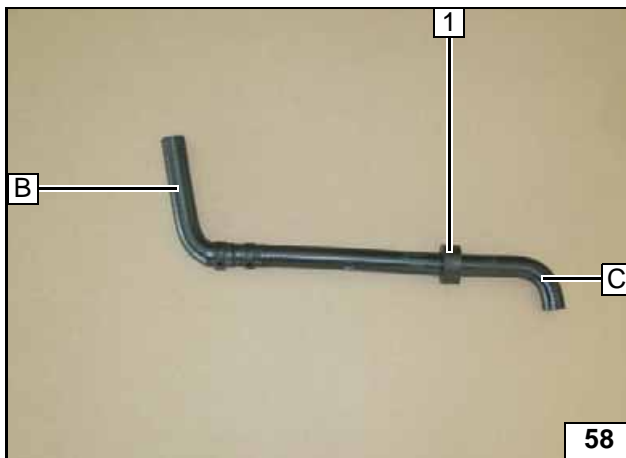




Discard section X.

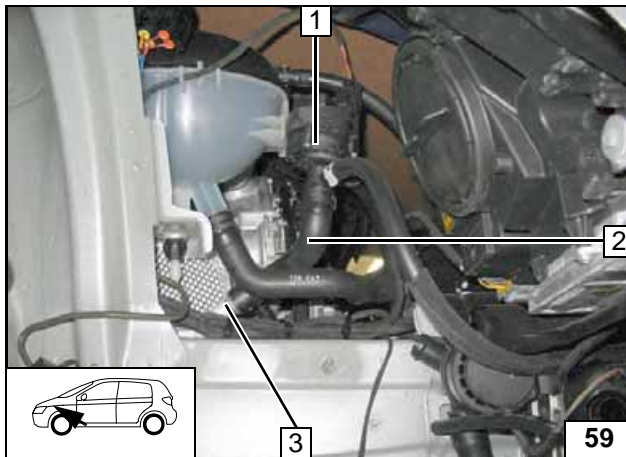
- A = 18 mm dia., length = 210
- B = 20 mm dia., length = 150
- C = 18 mm dia., length = 355

Cutting coolant hoses to length



1 Black (sw) rubber isolator

Preparing coolant hose

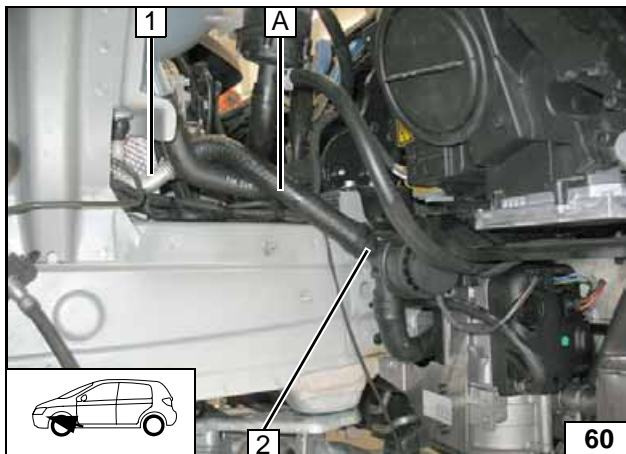


Remove original vehicle hose **2**; hose will not be reused.

- 1 Original vehicle circulating pump
- 3 Connection to pipe socket on heat exchanger outlet



Cutting point



- 1 Connection to pipe socket on heat exchanger outlet
- 2 Connection to heater-unit circulating pump

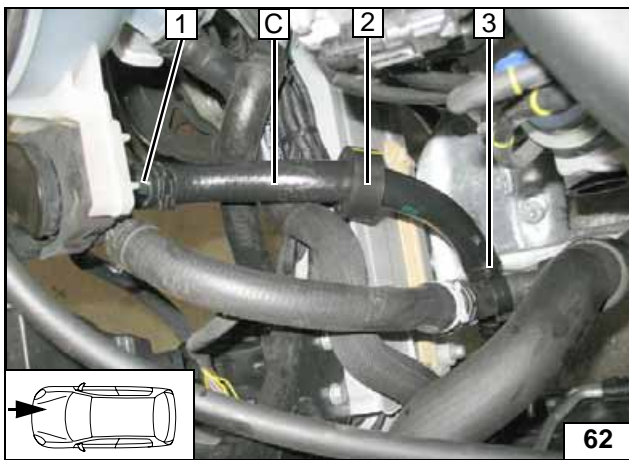


Connec-tion to heater unit



1 Connection to heater unit outlet

Conne-
tion to
heater unit

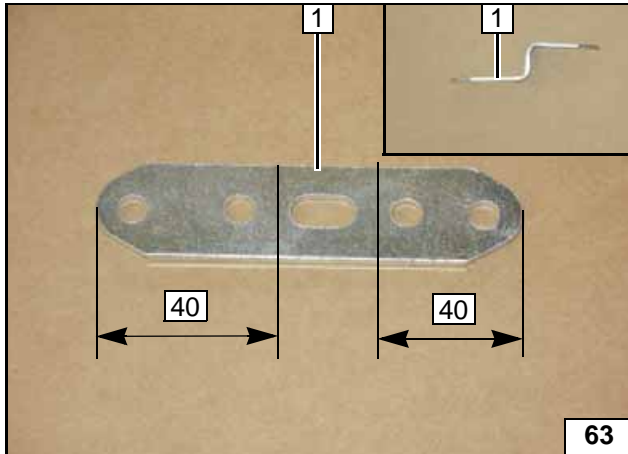
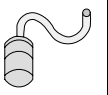


Align black (sw) rubber isolator 2.

- 1 Connection piece of original vehicle circulating pump
- 3 Hose bracket



Conne-
tion to wa-
ter pump



Combustion air

Bend perforated bracket 1 2x 90°.



Bending perforated bracket

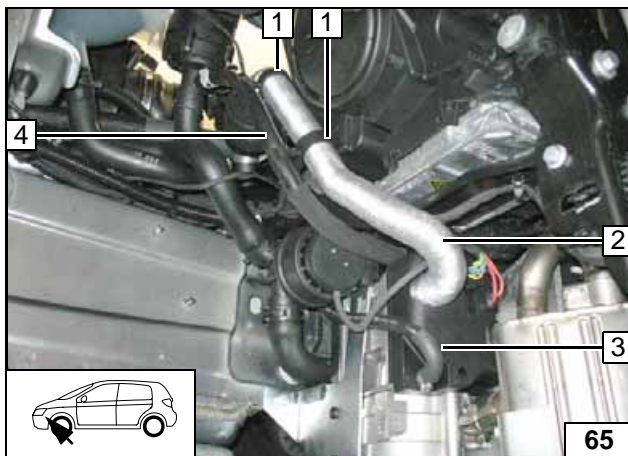


Vehicle without electr. circulating pump

- 1 Combustion-air intake pipe
- 2 Heater unit
- 3 9x19 hose bracket [2x]
- 4 Hose bracket



Installing intake pipe



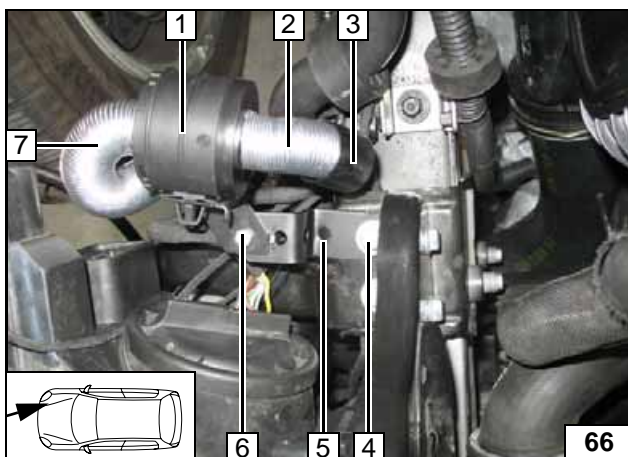
Vehicle with electr. circulating pump

Position 9x19 hose bracket 1 [2x] between combustion air pipe 2 and original vehicle hose 4.

- 3 Heater unit



Installing intake pipe

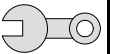


Mount perforated bracket 5 with original vehicle bolt 4.

- 1 Intake muffler
- 2 Intake pipe
- 3 Protective cap
- 6 Bracket of muffler, M5x16 bolt, washer, flanged nut
- 7 Intake pipe



Installing muffler



Final Work

WARNING!

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

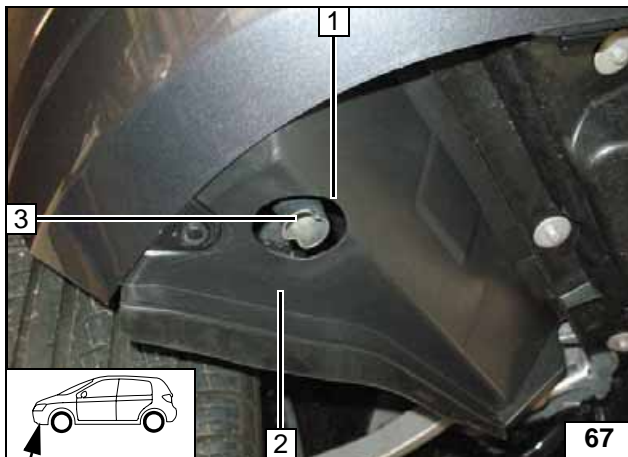
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Check the proper operation of the additional heater, see the operating instructions/installation instructions.
- Attach the "Switch off additional heater before refueling" sticker to the left-hand B-pillar.
- Teach button function as described in operating instructions (remove fuse F2 [1A], install again and press button for 2 sec. within 5 sec.)

Note:

When switching on the heater unit with the digital timer and switching off with the Thermo Call, the Thermo Call must first be switched on and then off!
 The additional ventilation function is not possible!

WARNING:

After conducting an operating test of the additional heater, carry out an "input short test" with the "Diagnosis assistance system" of the manufacturer on the vehicle.
 Reprogram the positioning motors in the KLA air conditioner.



Drill 45 mm dia. hole 1 in trim 2.

The exhaust end section 3, must be centered relative to the hole 1 and aligned flush with the trim 2; realign exhaust end section 3 if necessary.



1 Exhaust end section



Exhaust outlet



Exhaust outlet

Webasto
Feel the drive

Webasto AG
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 Hotline 01805 / 932278 - Hotfax 0395 / 5592-353
<http://www.webasto.de>