Water Heater

Webasto
Feel the drive

***Thermo Top E* Parking Heater** e1 00 0003

***Thermo Top C* Parking Heater** e1 00 0002

***Thermo Top P* Parking Heater** e1 00 0104

Installation documentation

Audi A3

Diesel
from Model Year 2006
Left-hand drive vehicle
Gear box

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.

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

Ident. No.: 9015604B_EN Fee Euro 10.00

Table of Contents

Validity

Manufacturer	Model	Type	EG-BE No./ABE
Audi	A3	8P	e1 * 2001/116 * 0217 * ...

Engine type	Engine model	Output in kW	Displacement in cm³
BMN	Diesel	125	1968
BUY	Diesel	120	1968
BMM	Diesel	103	1968
BKD	Diesel	103	1968
AZV	Diesel	100	1968
BKC	Diesel	77	1896
BLS	Diesel	77	1896
CAYC	Diesel	77	1598

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 a digital timer and summer/winter switch should be confirmed with the end customer before installation.

Heater/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories with desired heater control	See price list
1	Installation kit for Audi A3 Diesel	9015603A

Heater recommended for the respective vehicle class:

Vehicle	Heater
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 is based on the passenger compartment size of the vehicle and the level of comfort required by the customer!

Foreword

This installation documentation applies to vehicles Audi A3 with Diesel engine - for validity, see page 2 - from model year 2006 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.

However, the stipulations in the "installation documentation", the "operating instructions" and "installation 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 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).
When installing an IPCU, the appropriate settings must be checked and set prior to the installation!

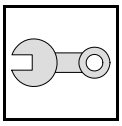
Special Tools

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

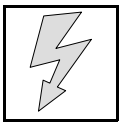
Explanatory Notes on Document

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.

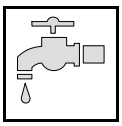
Mechanical system



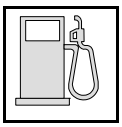
Electrical system



Coolant circuit

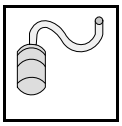


Fuel



Exhaust gas

Combustion air



Software

Special features are highlighted using the following symbols:

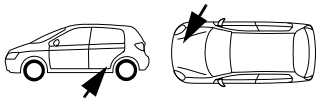
Specific risk of injury or fatal accidents.

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.

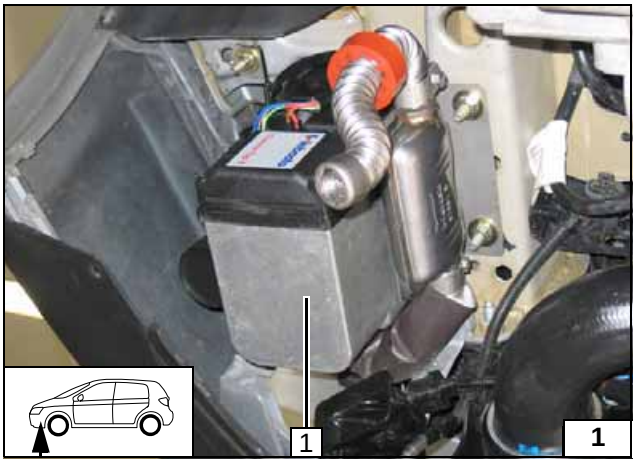
All dimensions are in mm!
Tightening torque of hose clamps = 2.0 + 0.5 Nm!
Tightening torque of Ejot screws, Ejot studs = 10 Nm!

Preliminary Work

WARNING!

- Open the fuel tank cap, ventilate the 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.
- Disconnect and remove the battery.
- Remove the battery carrier.
- Remove the air filter together with the intake hose.
- Remove the left front wheel
- Remove the front section of the left front wheel well trim
- Remove the underride protection.
- Remove the right underbody trim (if available)
- Remove the rear bench seat and open the right-hand fuel sender service lid
- Remove the footwell trim on the driver's side
- Remove the left-hand lower instrument panel trim

Remove page 40 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater installation location

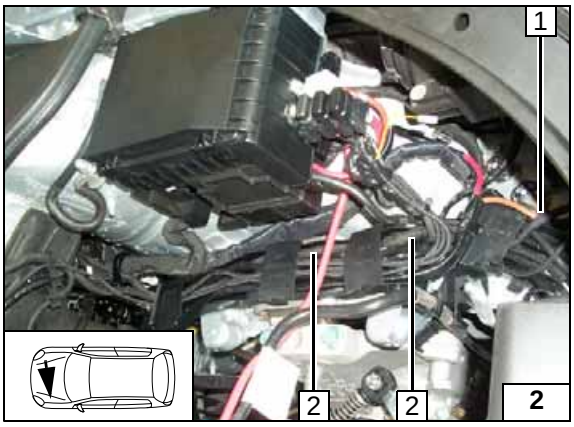
1 Heater

Installation location

Electrical system

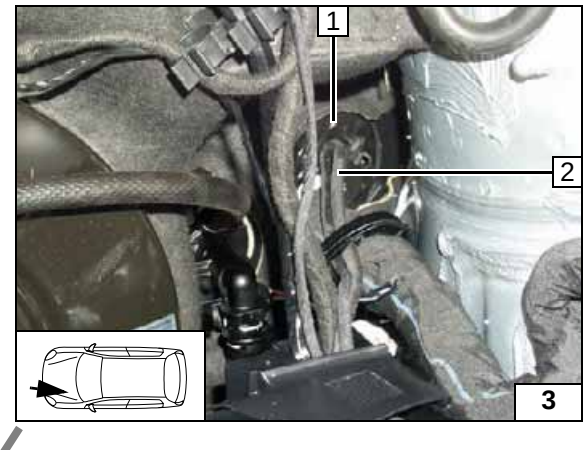
Wiring harness routing

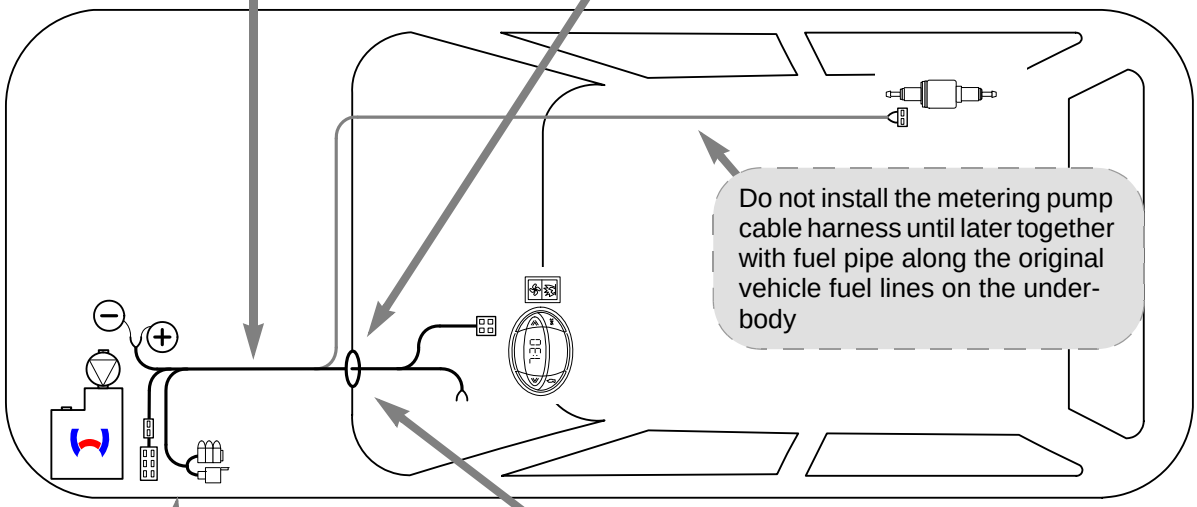
Route excess lengths from wiring harness **1** in cable duct **2** below battery and secure with cable ties.



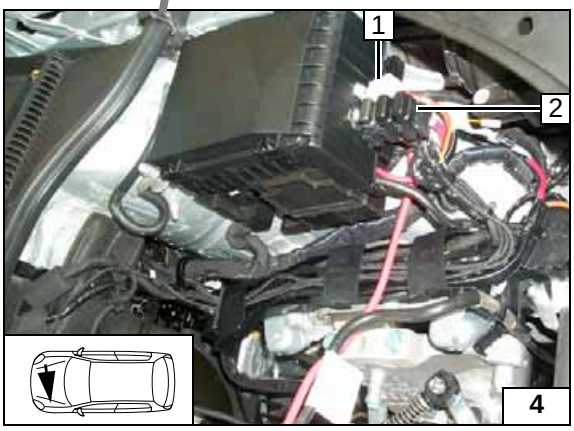
Wiring harness pass through

1 Original vehicle wiring harness pass through
2 Wiring harness of fan controller and heater control



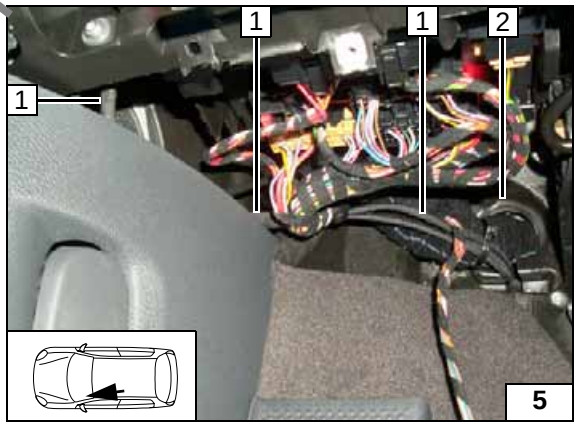


Wiring harness installation diagram



Fuse holder, relay K3

Description of installation for K3 relay **1** and fuse carrier **2** on Page 7



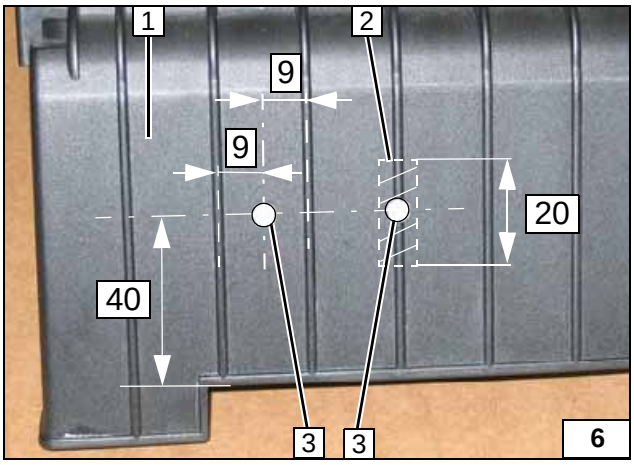
Wiring harness pass through

1 Wiring harness of fan controller and heater control
2 Original vehicle wiring harness pass through

Fuse holder and relay K3

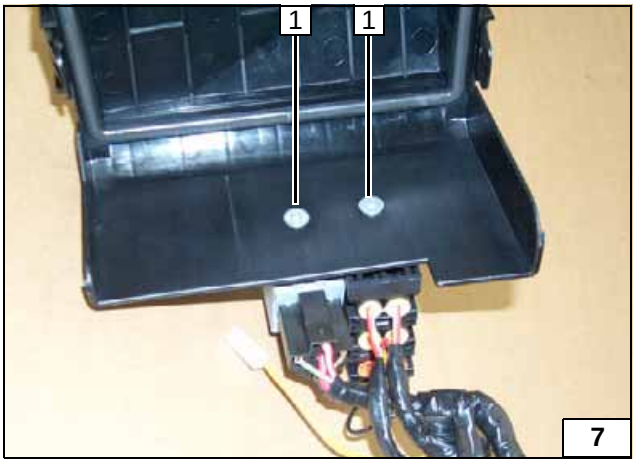
Countersink holes **3** from behind for M5 countersunk head screws.

1 Cover of fuse/relay carrier in engine compartment
2 Cut away bar in shaded area
3 5 mm dia. hole [2x]



Holes in cover

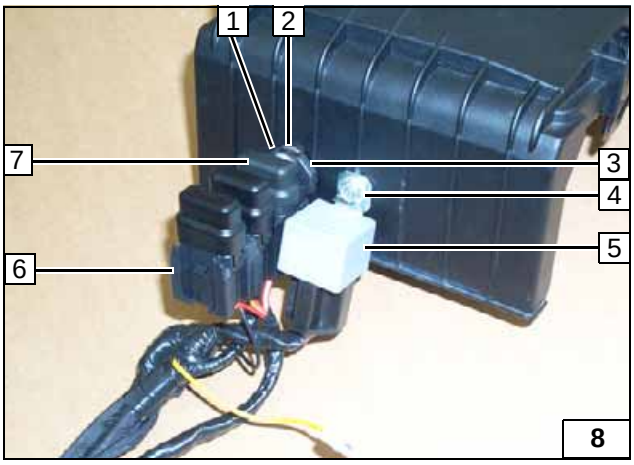
1 M5x12 countersunk head screw [2x]



Installing fuse holder and K3 relay

On vehicles with Climatronic, replace 25 A fuse F3 **7** with 3A fuse provided.

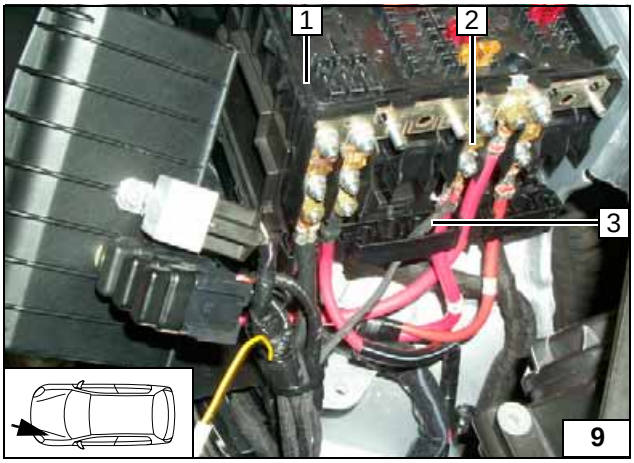
1 M5 flanged nut
2 Large diameter washer (between cover and retaining plate)
3 Retaining plate
4 M5 flanged nut
5 Relay K3
6 Fuse holder



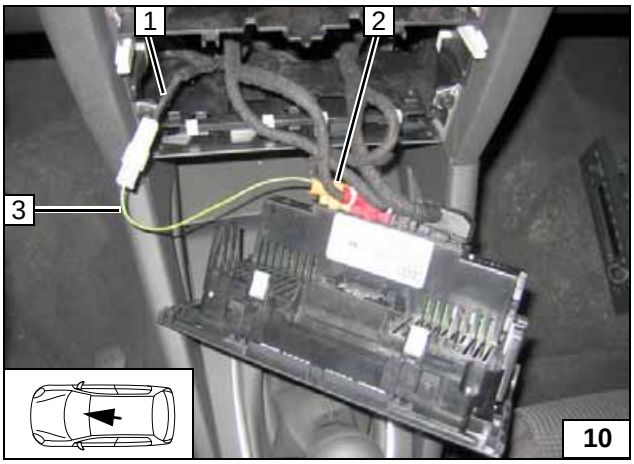
Installing fuse holder and K3 relay

Route brown (br) earth wire to original vehicle earth support point below headlight and connect.

1 Fuse/relay carrier
2 Original main vehicle fuse
3 Red (rt) positive wire



Connecting positive and earth wire



Climatronic fan controller

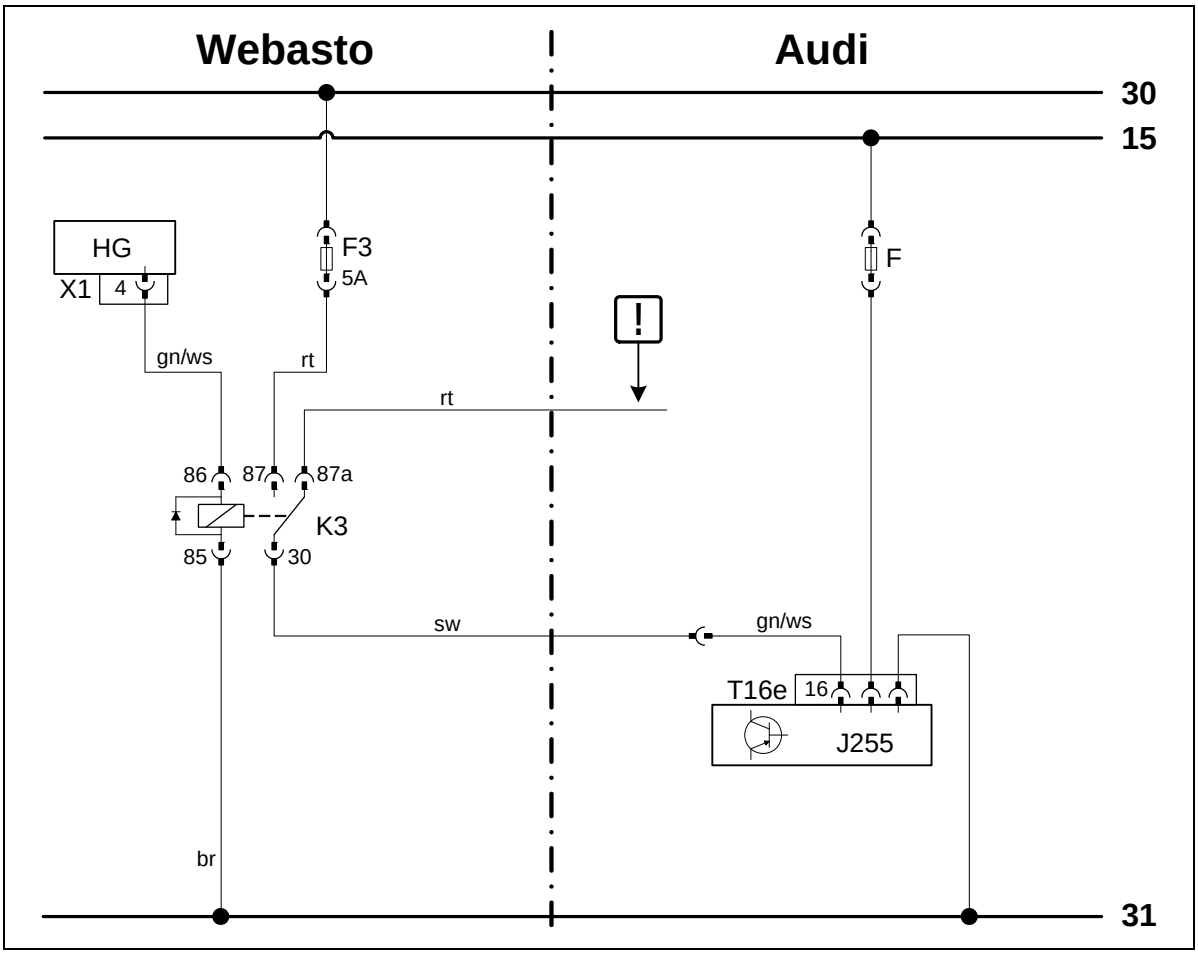
Applicable from software version 0150 and 0160.

Produce connection as shown in wiring diagram.

1 Black (sw) wire from K3/30
2 Beige connector T16e
3 Green/white (gn/ws) wire

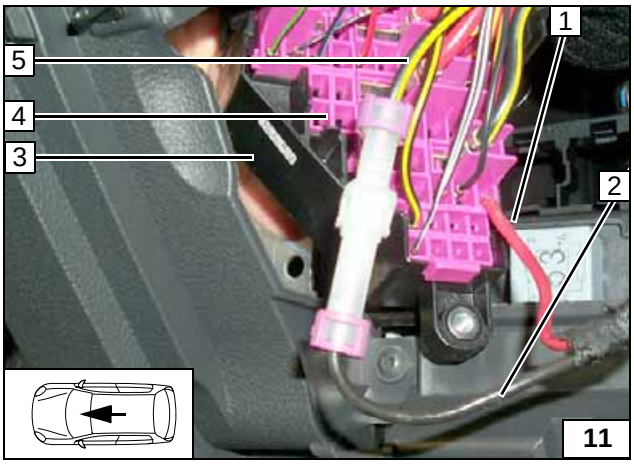
Connecting A/C control panel

Climatronic Wiring Diagram



Webasto components		Components of Audi A3		Colours and symbols	
HG	Heater TT-C/E/P	J255	Control unit of A/C control panel	rt	red
X1	6-pin connector	T16e	Connector, beige	ws	white
F3	Replace 25 A fuse F3 with 5 A fuse.			sw	black
				br	brown
K3	Fan relay			gn	green
				!	Insulate wire ends and tie back
				Wiring colours may vary.	

Legend

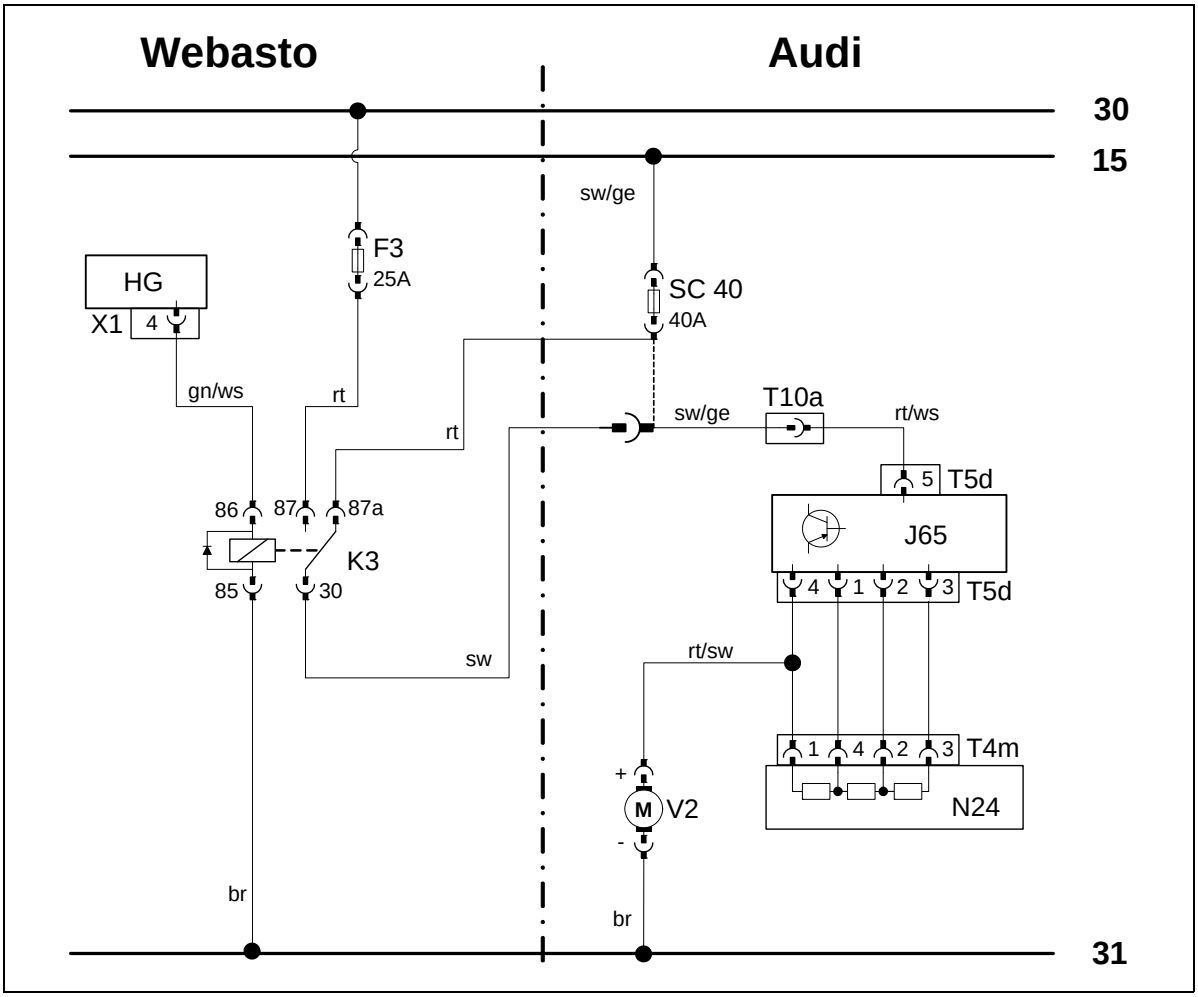


Fan controller without Climatronic

Detach vehicle fuse carrier **3** and unlock contact lock **4**
Unlock and release 4mm² black/yellow (sw/ge) wire **5** on fuse carrier
Produce connection according to wiring diagram with wire connectors provided.

1 Red (rt) wire from K3/87a
2 Black (sw) wire from K3/30

Connecting fan motor



Wiring diagram without Climatronic

Webasto components		Components of Audi A3		Colours and symbols	
HG	Heater TT-C/E/P	J65	Control unit of A/C control panel	rt	red
X1	6-pin connector	N24	Resistor group	ws	white
F3	25 A fuse F3	SC40	Fuse 40A	sw	black
K3	Fan relay	T....	Connector	br	brown
				gn	green
				ge	yellow
				Wiring colours may vary.	

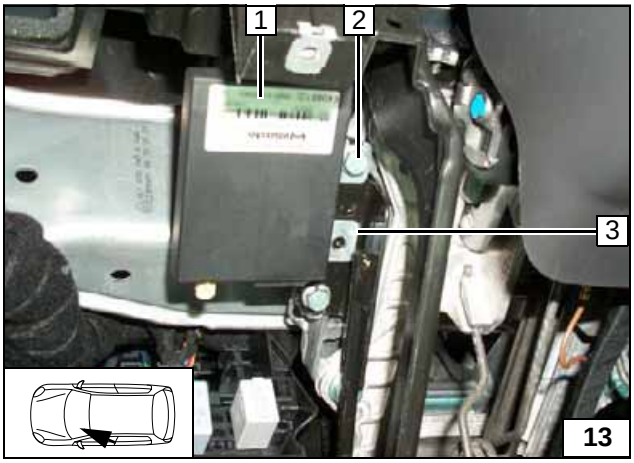
Legend

Installing digital timer

Digital timer / Summer/winter switch option

1 Digital timer
2 Summer/winter switch

Installing receiver

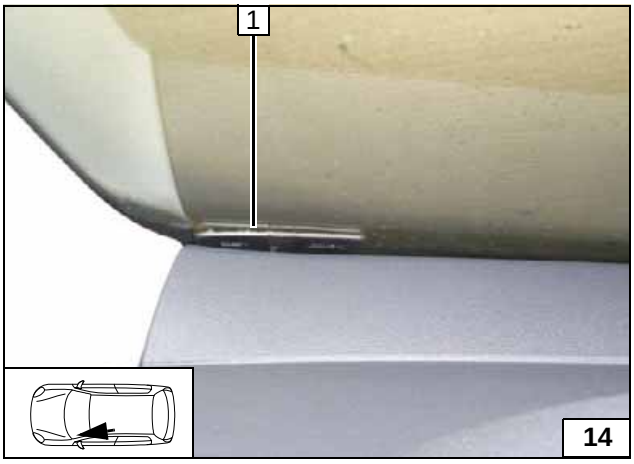


Remote option (Telestart)

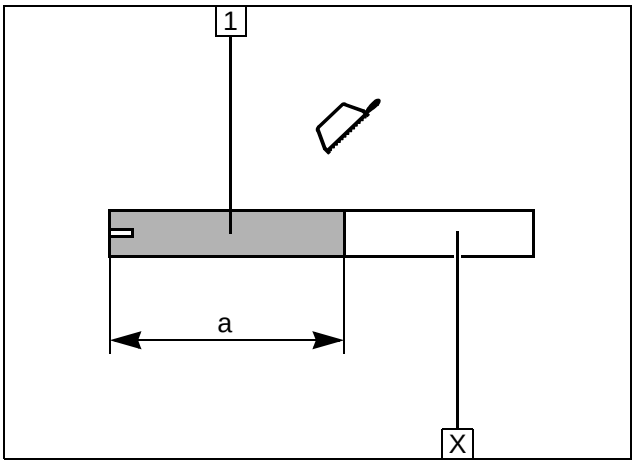
If M6 screw **2** is not present, then use suitable M6 screw with spring lockwasher.
Drill out upper hole of bracket to 6.5 mm dia.

1 Receiver
2 M6 bolt in existing threaded hole
3 Bracket

Installing antenna



1 Antenna

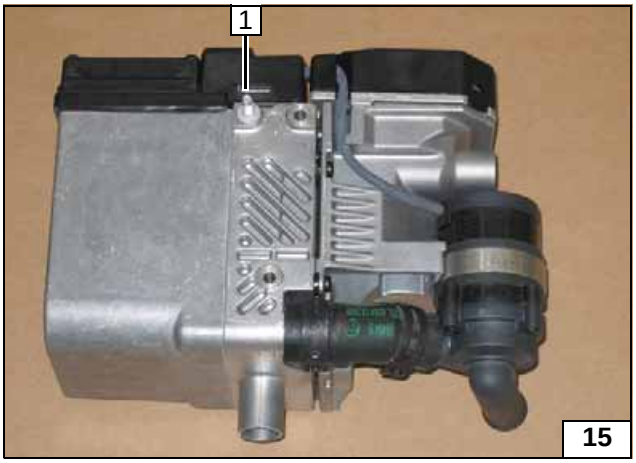


Preparing heater

Discard section **X**.

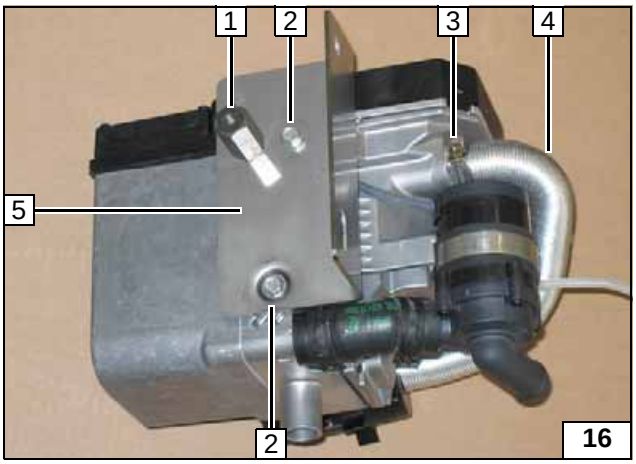
1 Combustion air pipe
a = 250

Cutting combustion air pipe to length



1 Ejot stud

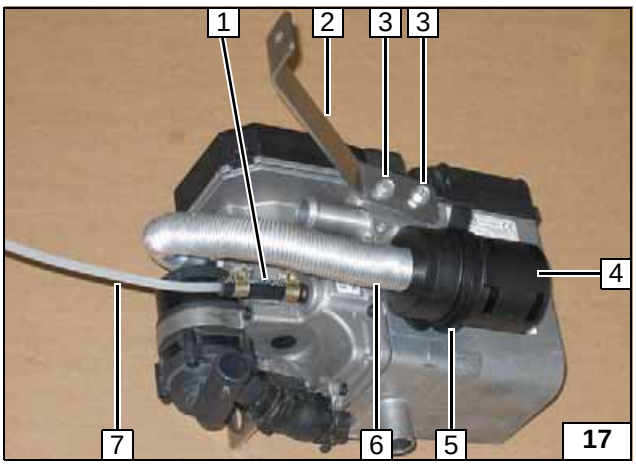
Premounting heater



Insert one washer each between heater and bracket **5** at positions **2**

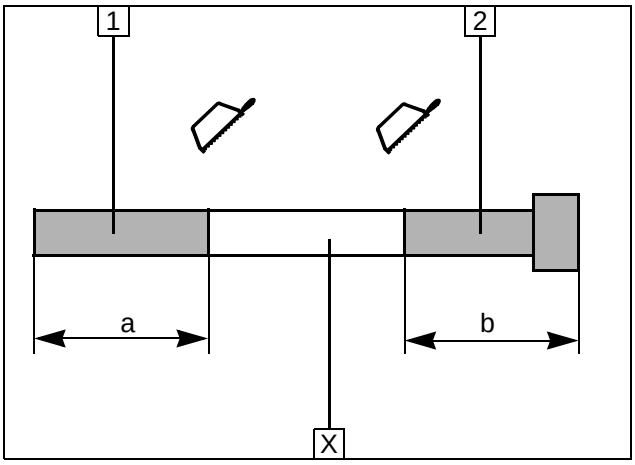
1 M6x30 spacer nut
2 Washer, Ejot screw [2x]
3 27 mm dia. hose clamp
4 Combustion air pipe

Premounting heater



1 Hose section, 10 mm dia. hose clamp [2x]
2 Strut
3 Ejot screw [2x]
4 Silencer
5 Retaining clip in hole of heater
6 Combustion air pipe
7 Fuel line

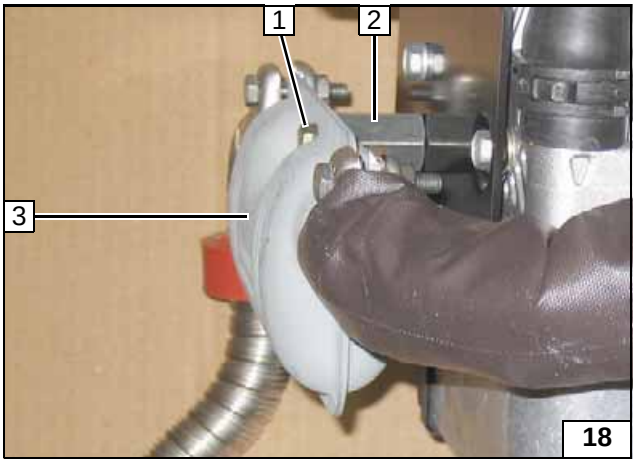
Premounting heater



Discard section **X**.

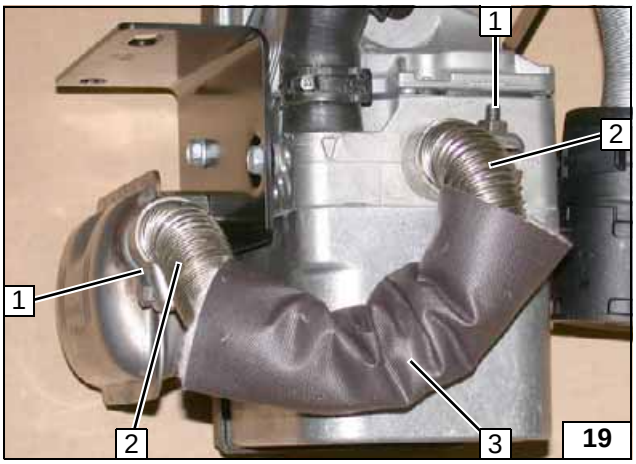
1 Exhaust pipe
a = 240
2 Exhaust end section
b = 240

Preparing exhaust pipe



1 M6x16 bolt, spring lockwasher
2 Preassembled M6x30 spacer nut
3 Silencer

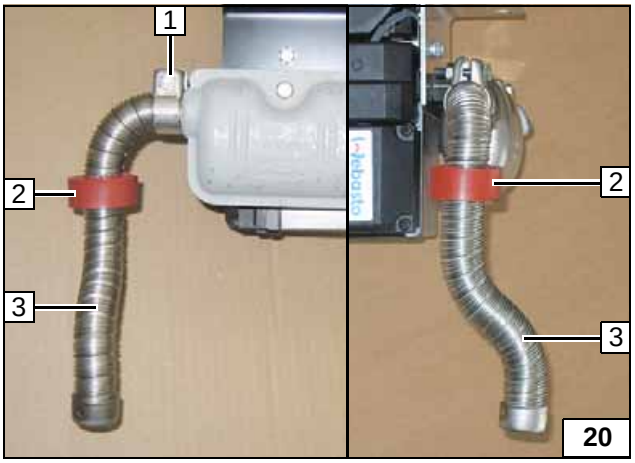
Installing silencer



Shape exhaust pipe **2** according to figure and slide on insulation **3**!

1 Hose clamp [2x]

Installing exhaust pipe



Shape exhaust end section **1** according to figure!

1 Hose clamp
2 Slide on red (rt) rubber isolator, without groove

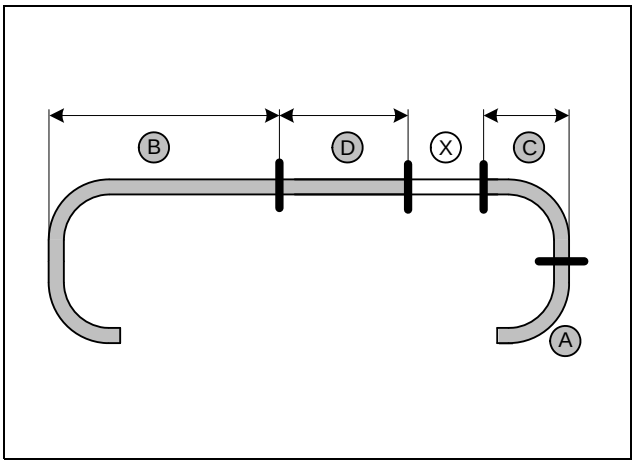
Installing exhaust end section

Preparing coolant circuit

1.6 TDI with DPF

Discard section **X**

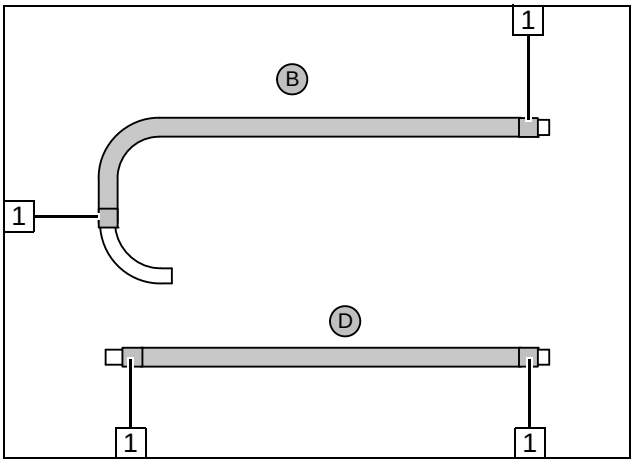
B = 840
C = 100
D = 720



Cut hoses to length

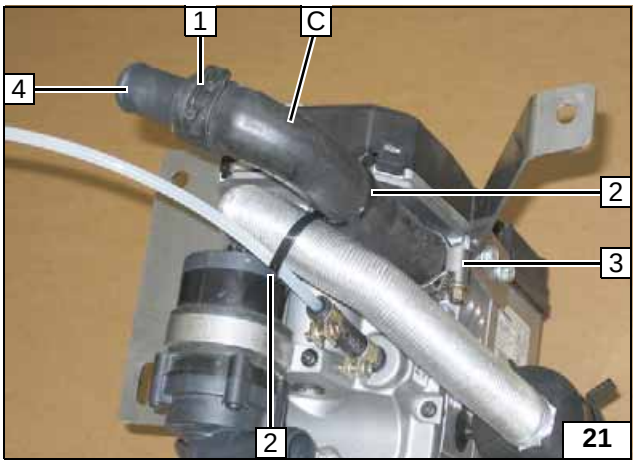
Push braided protection hoses onto hose **A** and **C** and cut to length.
Cut heat shrink plastic tubing to length.

1 25 mm long heat shrink plastic tubing [4x]



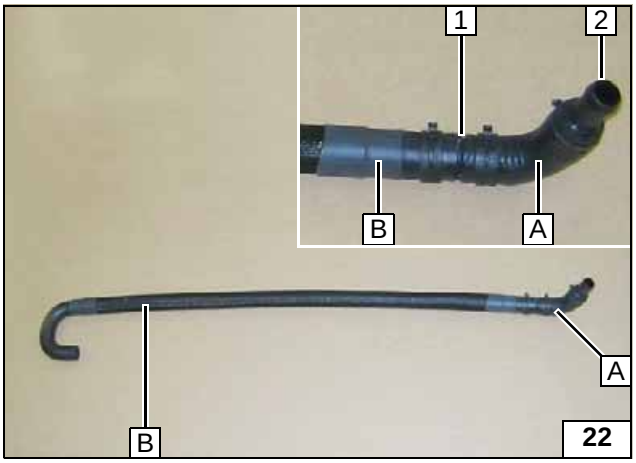
Preparing hoses

1 27 mm dia. spring clip
2 Cable tie [2x]
3 27 mm dia. hose clamp
4 20x20 connecting pipe

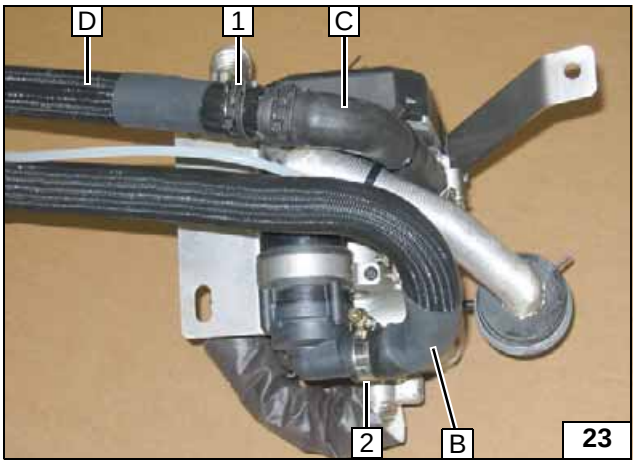


Assembling hose C

1 20x20 connecting pipe, 27 mm dia. spring clip [2x]
2 18x20 connecting pipe, 27 mm dia. spring clip

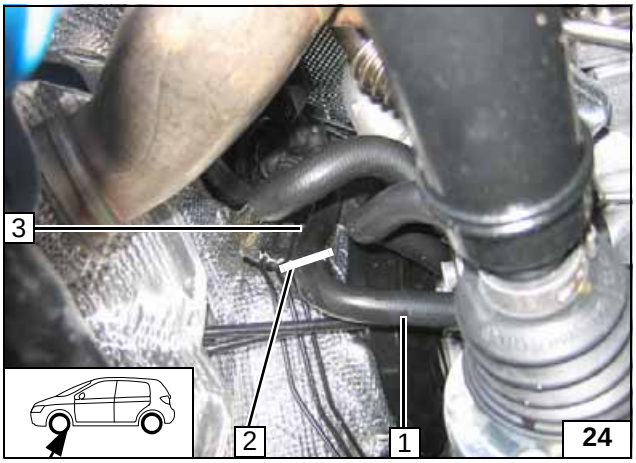


Preparing hose A and B



1 27 mm dia. spring clip
2 27 mm dia. hose clamp

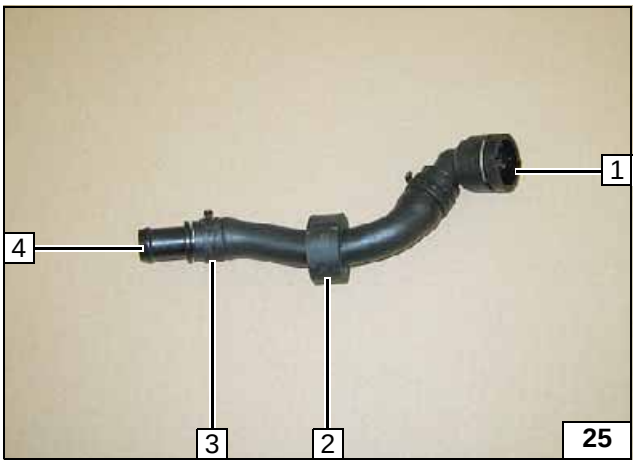
Premounting hoses



Remove hose at heat exchanger inlet **3**.

1 Hose of engine outlet
2 Cutting point

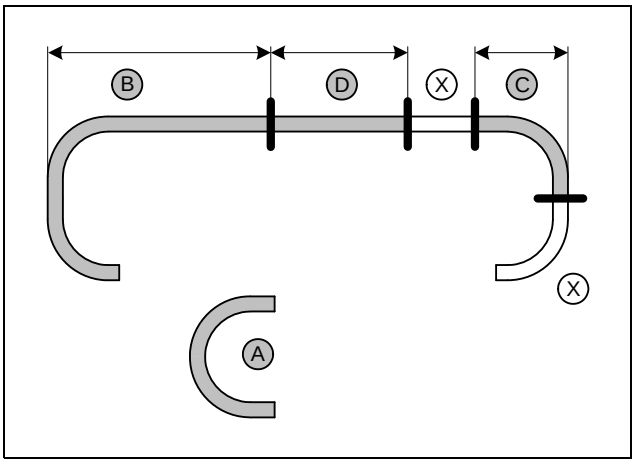
Cutting point



Turn coupling piece **1** on hose of heat exchanger inlet according to figure. After preassembly, assemble hose of heat exchanger inlet on the vehicle.

2 Black (sw) rubber isolator
3 25 mm dia. spring clip
4 18x20 connecting pipe

Pre-assembling hose on heat exchanger inlet

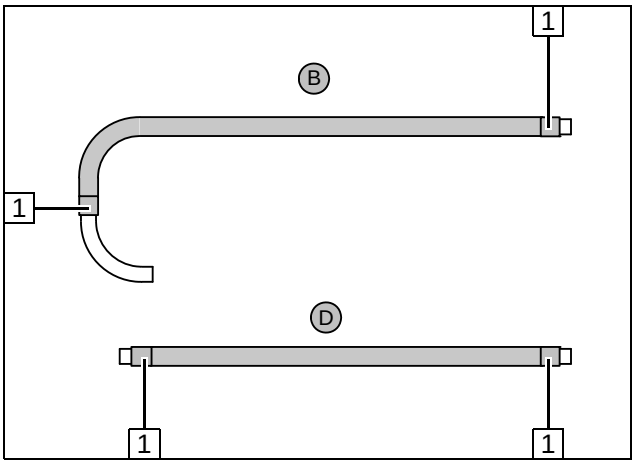


1.9 / 2.0 TDI without DPF

Hose **A** = moulded hose 180° 20 mm dia.
Discard section **X**.

B = 620
C = 100
D = 580

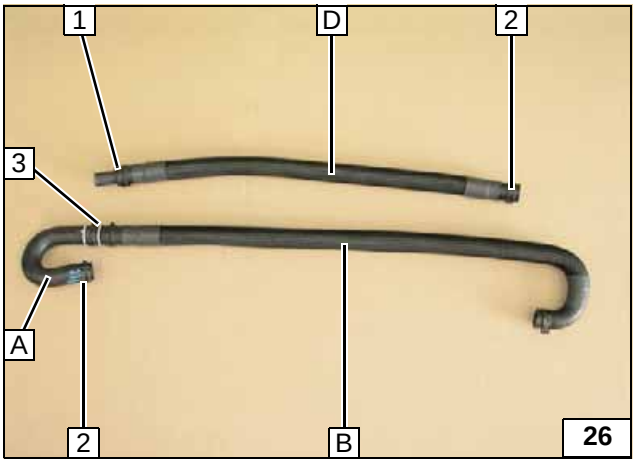
Cut hoses to length



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

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

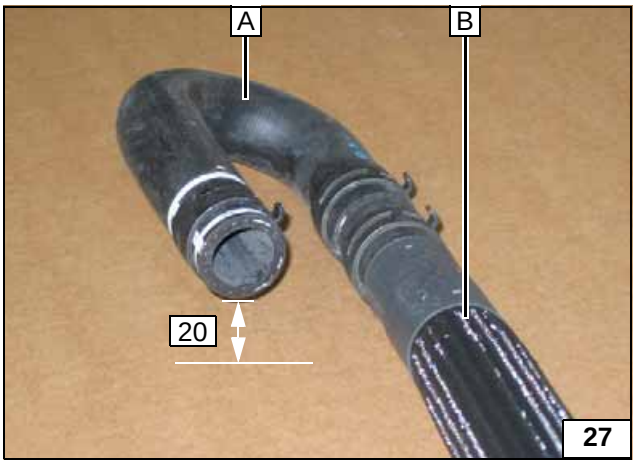
Preparing hoses



Connect hose **A** and **B**. Observe positioning of hose **A** and **B** according to the following figure!

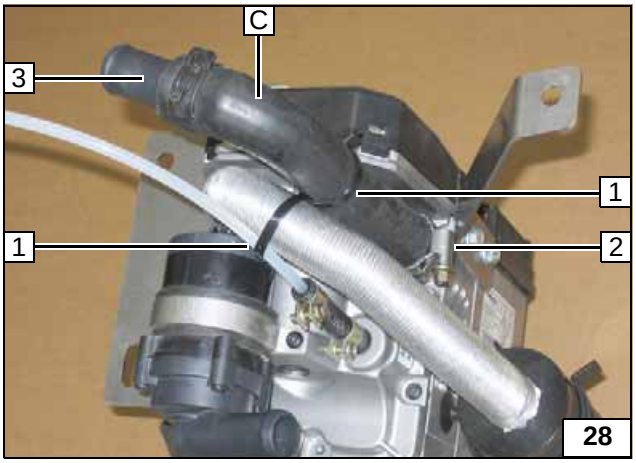
1 20x20 connecting pipe, 27 mm dia. spring clip
2 Push on 27 mm dia. spring clip [2x]
3 20x20 connecting pipe, 27 mm dia. spring clip [2x]

Premounting hoses



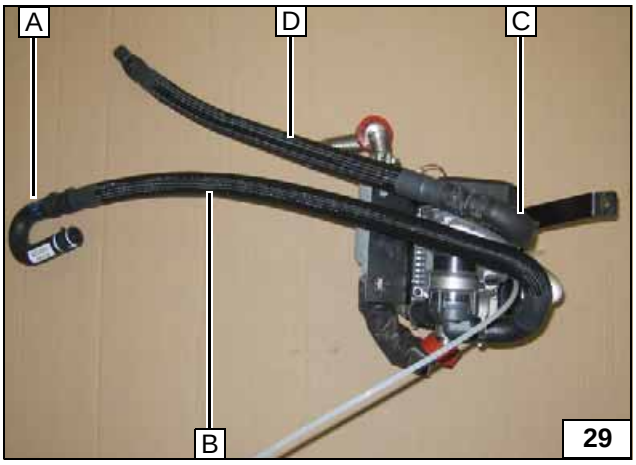
When assembling hoses **A** and **B**, lift hose **A** by approx. 20 mm from the overlay.

Premounting hose A and B

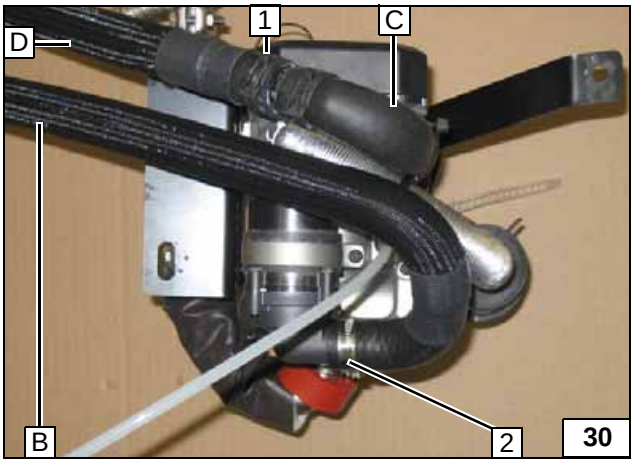


1 Cable tie [2x]
2 27 mm dia. hose clamp
3 20x20 connecting pipe, 27 mm dia. spring clip

Assembling hose C



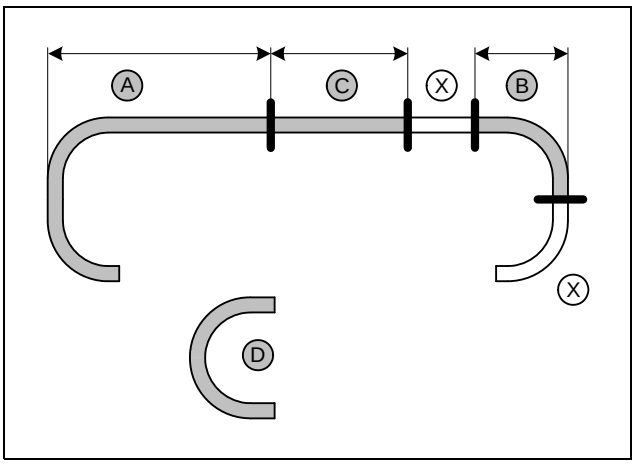
Installing hoses



Connect hose **C** and **D**.

1 27 mm dia. spring clip
2 27 mm dia. hose clamp

Installing hoses

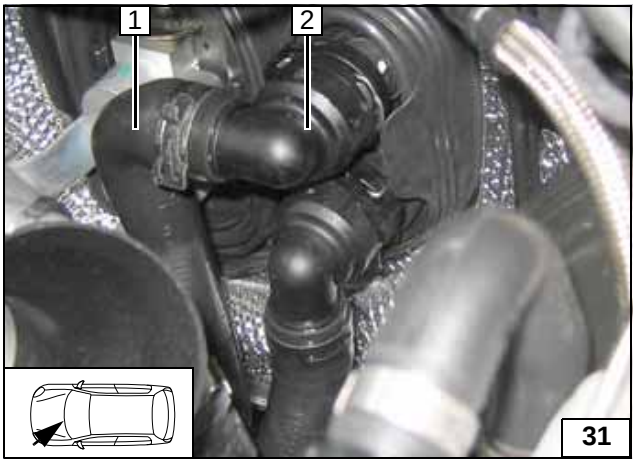


1.9 / 2.0 TDI with DPF

Hose **D** = moulded hose 180° 20 mm dia. Discard section **X**.

A = 880
B = 100
C = 880

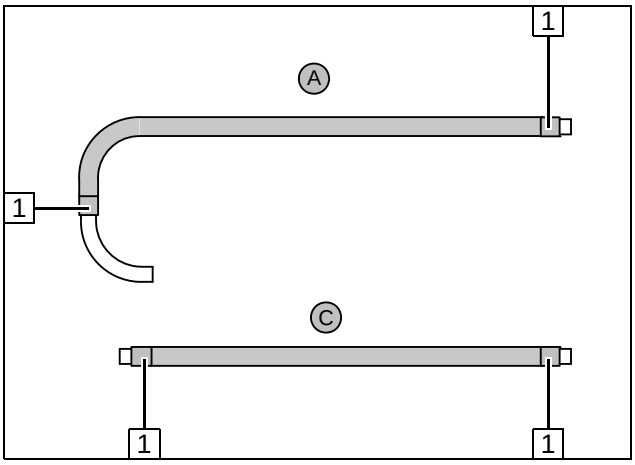
Cut hoses to length



Pull off and remove coupling piece on connecting piece of heat exchanger inlet **2**, will be re-used!

1 Coolant hose for engine outlet

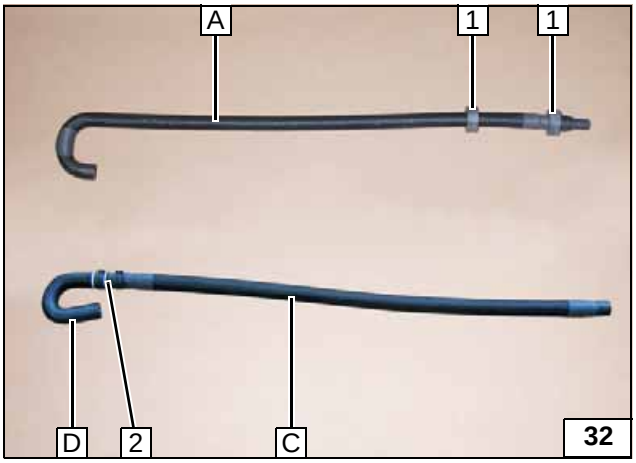
Removing coupling piece



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

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

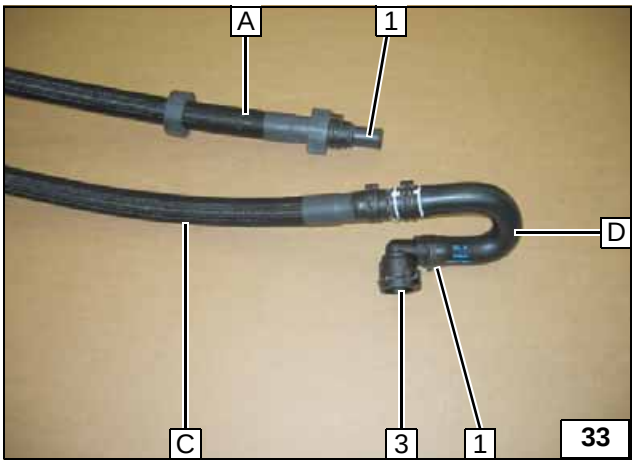
Preparing coolant hoses



Push black (sw) rubber isolator **1** [2x] on hose **A**. Connect hose **C** and **D**.

2 20x20 connecting pipe, 27 mm dia. spring clip [2x]

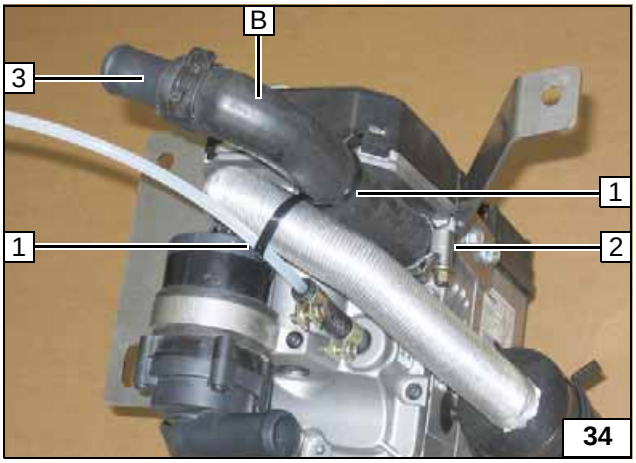
Premounting hoses



Coupling piece of connecting piece on heat exchanger inlet. Connect coupling piece **3** with hose **D**.

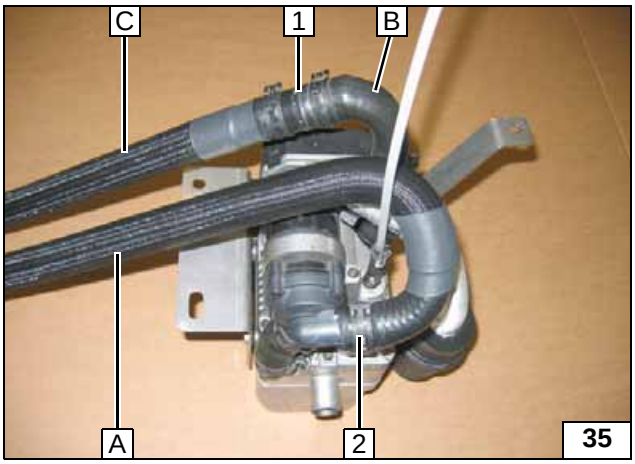
1 20x20 connecting pipe, 27 mm dia. spring clip
2 27 mm dia. spring clip
3 Coupling piece on heat exchanger inlet

Premounting hoses



1 Cable tie [2x]
2 27 mm dia. hose clamp
3 20x20 connecting pipe, 27 mm dia. spring clip

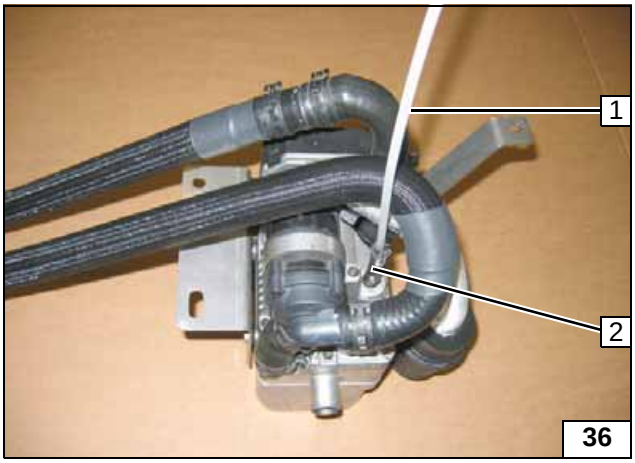
Assembling hose C



Connect hose **B** and **C**.

1 20x20 connecting pipe, 27 mm dia. spring clip [2x]
2 27 mm dia. spring clip

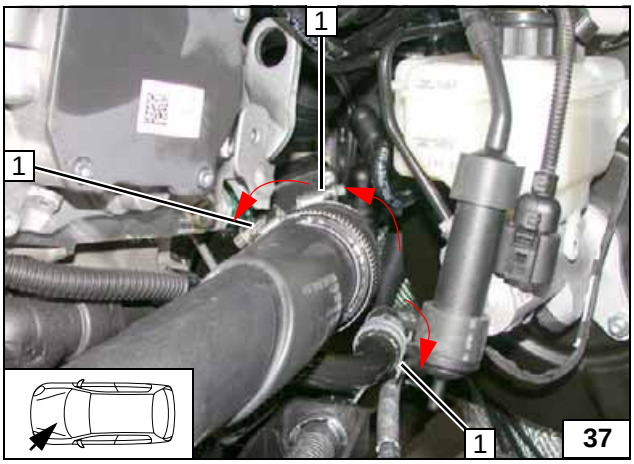
Installing hoses



Preparing fuel line

1 Fuel line
2 Hose section, 10 mm dia. Caillau clamp [2x]

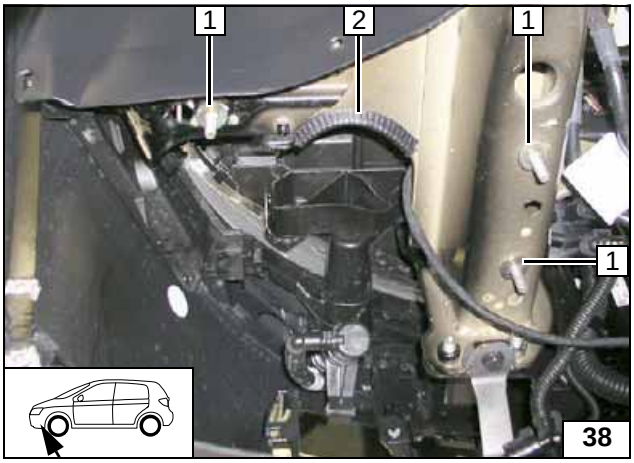
Premounting fuel line



Preparing installation location

Figure shows 1.6 TDI.
Align clamp locks **1** [3x] of original vehicle clamps according to figure!

Align clamps



Secure large diameter washer against falling with putty etc.

1 Large diameter washer on original vehicle stud bolt [3x]
2 100 mm edge protection

Preparing installation location

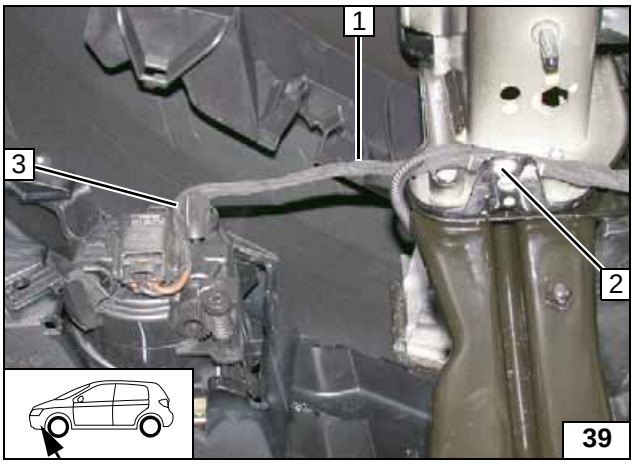


Figure shows vehicle from model year 2010. Remove retaining clip of original vehicle wiring harness **1** on position **2** and re-install from the top. Install original vehicle wiring harness **1** on position **3** as shown.

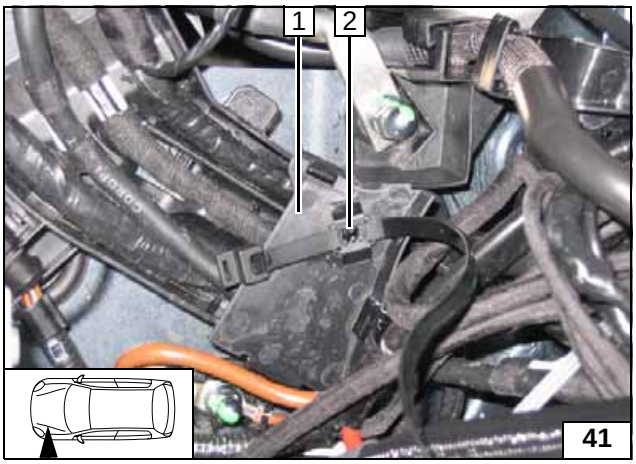
Routing wiring harness

Air filter versions

View from below!

The clip-type cable tie of the air filter shown in the figure is positioned according to the following figure.

Air filter version 1



6 mm dia. hole at position **2**. When drilling, watch lines located behind. Install clip-type cable ties **2**. The closure of cable tie **2** points forward!

1 Cover of cable duct

Install clip-type cable tie in air filter version 1

View from below!

The clip-type cable tie of the air filter shown in the figure is assembled according to the following figure and the hose bracket according to the following figures.

Air filter version 2

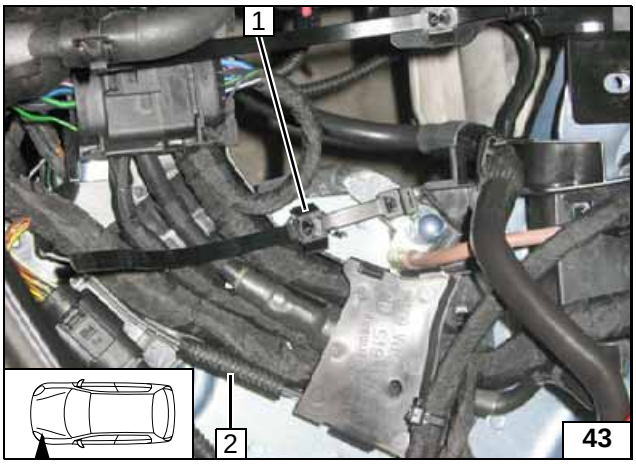
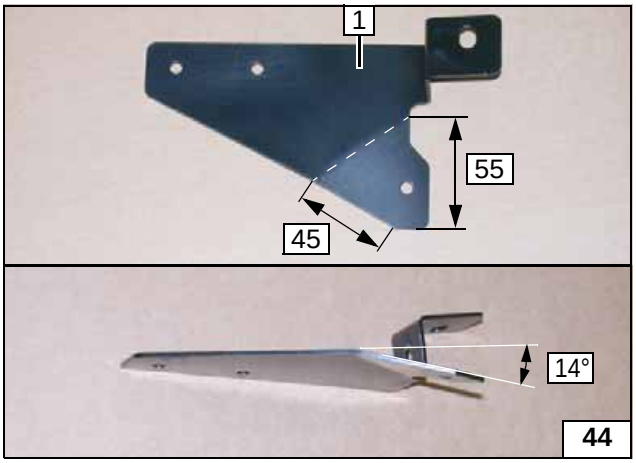


Figure shows 1.6 TDI.
6 mm dia. hole at position **1**. When drilling, watch lines located behind. Install clip-type cable ties **1**. The closure of the cable tie **2** points backward.

2 50 mm edge protection

Install clip-type cable tie in air filter version 2



Bend bracket **1** according to the figure.

Prepare bracket of air filter version 2

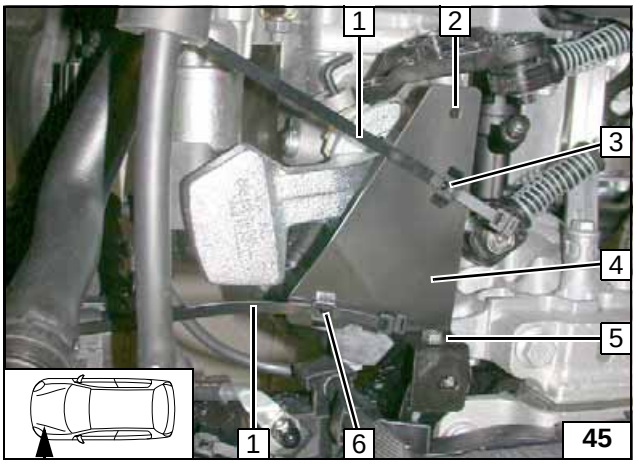
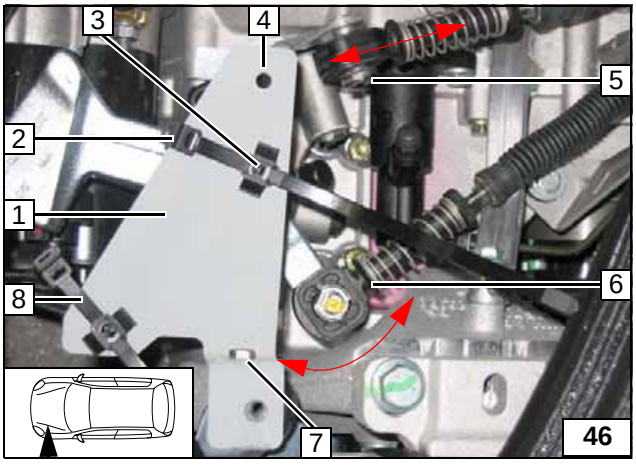


Figure shows 1.6 TDI.
Assemble clip-type cable tie **1** [2x] in hole **3** and **6**. The closures of the clip-type cable ties **1** point backward. The hole **2** remains open. Ensure freedom of movement of the gear change.

4 Bracket
5 M6x20 bolt, flanged nut, existing hole

Assemble bracket for air filter version 2

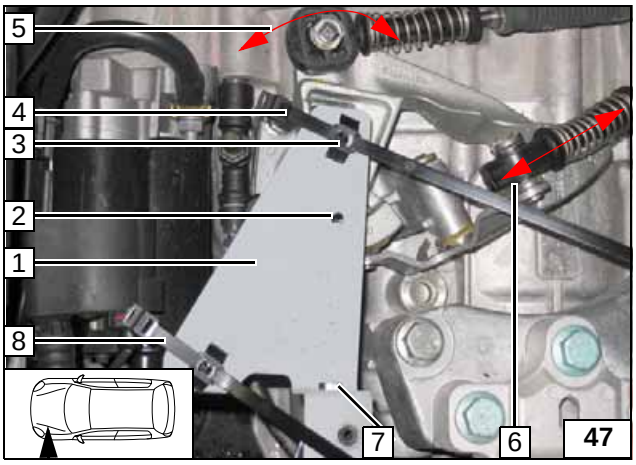


Gear change versions

For transmissions with gear change **5, 6** according to the figure, the clip-type cable tie **2** is installed in the hole **3**. The closures of the clip-type cable ties **2, 8** point backward. Hole **4** remains open.
Ensure freedom of movement of the gear change.

1 Bracket
7 Original vehicle hole **,** M6x20 bolt, flanged nut

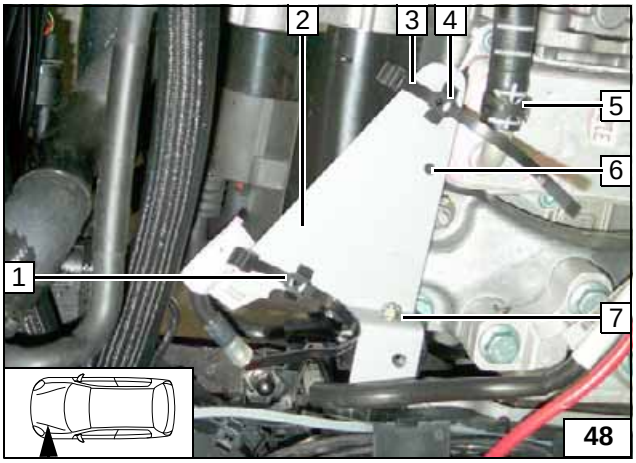
Gear shift version 1



For transmissions with gear change **5, 6** according to the figure, the clip-type cable tie **4** is installed in the hole **3**. The closures of the clip-type cable ties **4, 8** point backward. Hole **2** remains open.
Ensure freedom of movement of the gear change.

1 Bracket
7 Original vehicle hole **,** M6x20 bolt, flanged nut

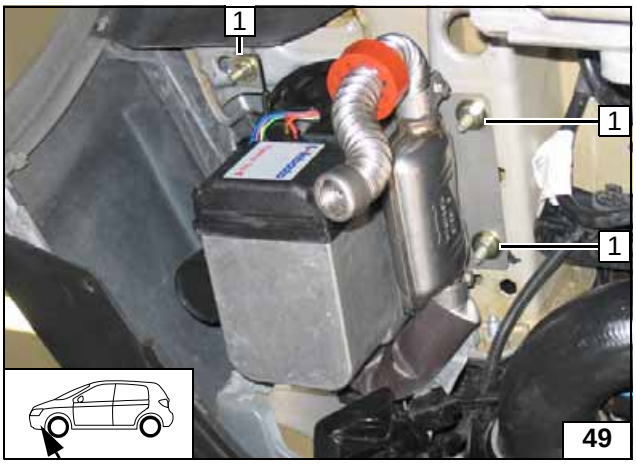
Gear shift version 2



In direct shift transmissions (DSG), clip-type cable tie **3** is installed in hole **4**. The closures of the clip-type cable ties **1, 3** point backward. Hole **6** remains open.

2 Bracket
5 Spring clip turned downward
7 Original vehicle hole M6x20 bolt, flanged nut

Gear change DSG



Installing heater

Install pre-assembled coolant hoses and Mecanyl line in the engine compartment!

1 Large diameter washer, flanged nut M8 [3x]

Installing heater

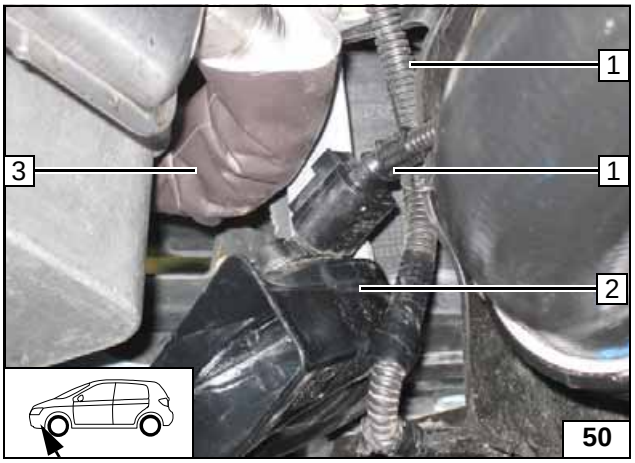


Figure shows vehicle up to model year 2009.
Ensure freedom of movement of exhaust system relative to original vehicle component and lines.

1 Original vehicle wiring harnesses (secured with cable ties)
2 Horn
3 Exhaust pipe with insulation

Aligning exhaust system

Aligning exhaust system

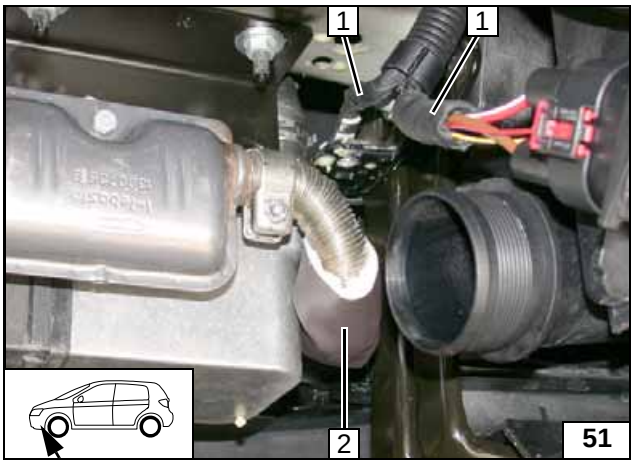
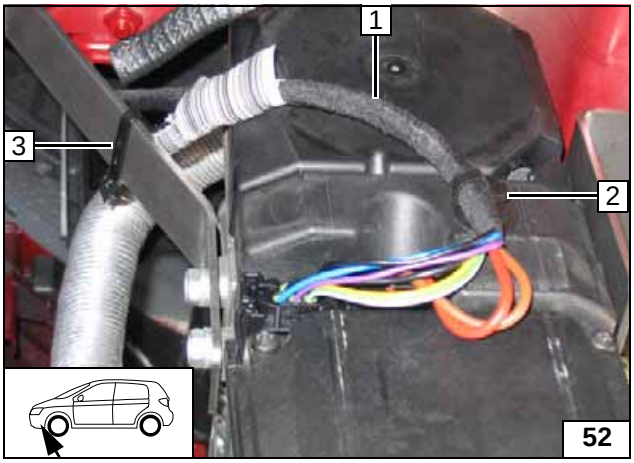


Figure shows vehicle from model year 2010. Ensure freedom of movement of exhaust system relative to original vehicle component and lines.

1 Original vehicle wiring harnesses
2 Exhaust pipe with insulation

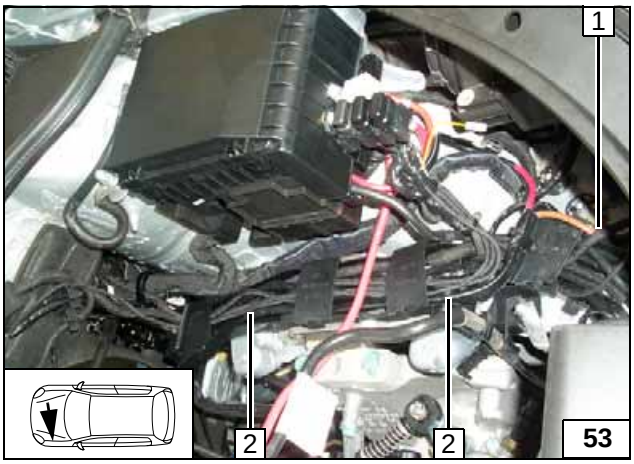
Plug in wiring harness of heater



Watch routing of wiring harness. Danger of rubbing!

1 Wiring harness of heater
2 Clip cable tie in pre-perforated hole of heater unit cover
3 Cable tie

Routing wiring harness

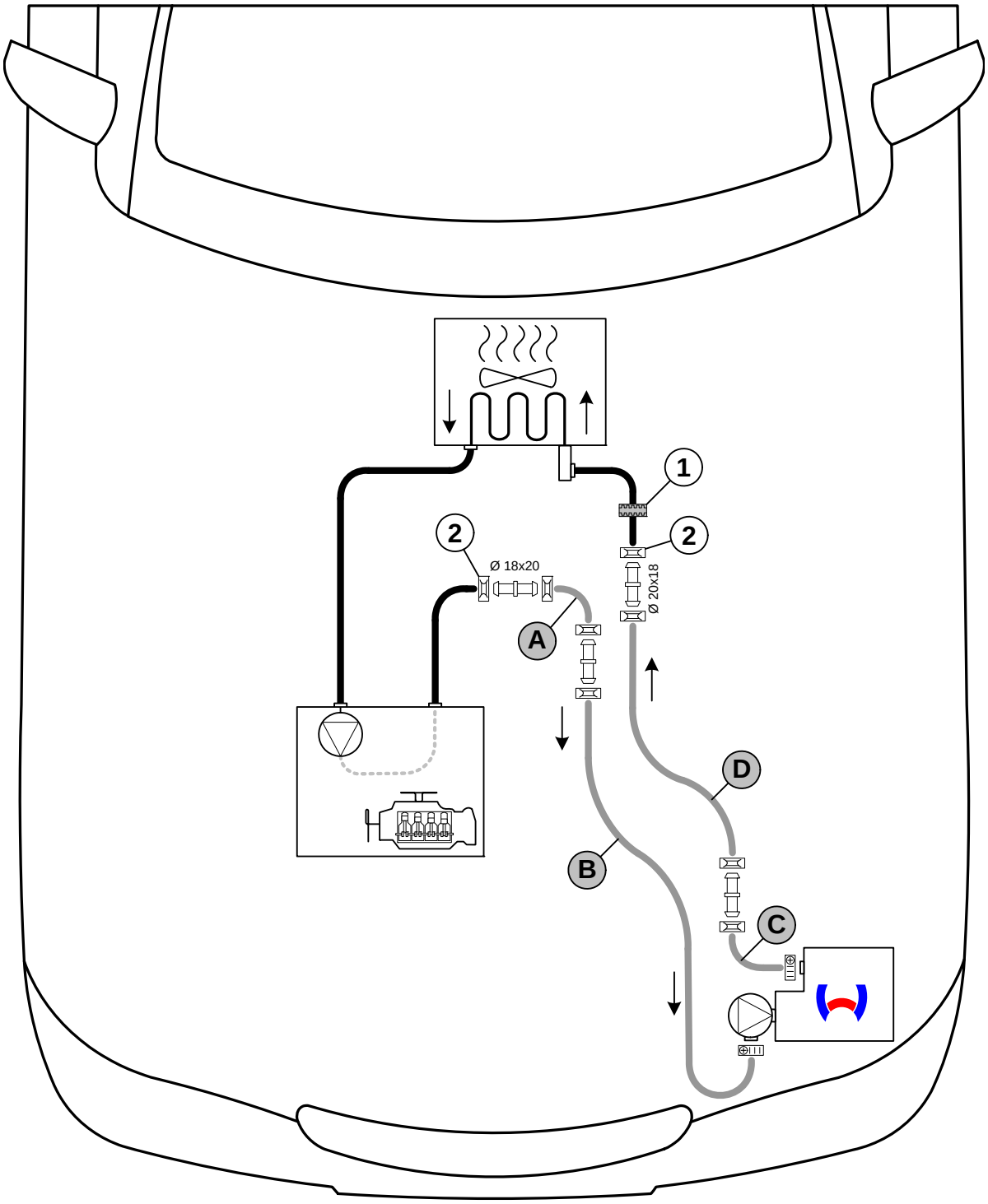


Watch routing of wiring harness. Danger of rubbing!

Route excess lengths from wiring harness **1** in cable duct **2** below battery and secure with cable ties.

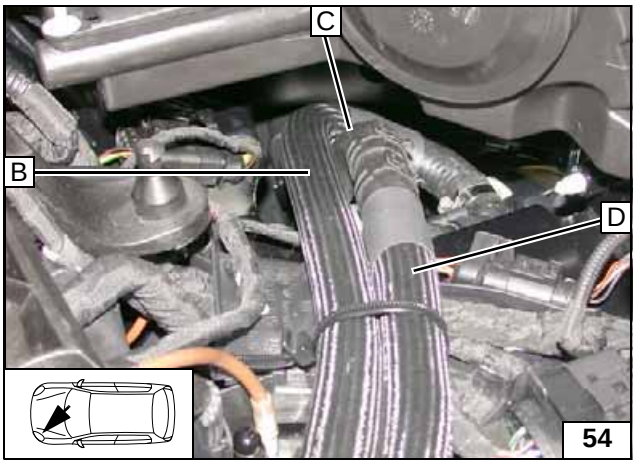
Coolant circuit 1.6 TDI with DPF

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 hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:



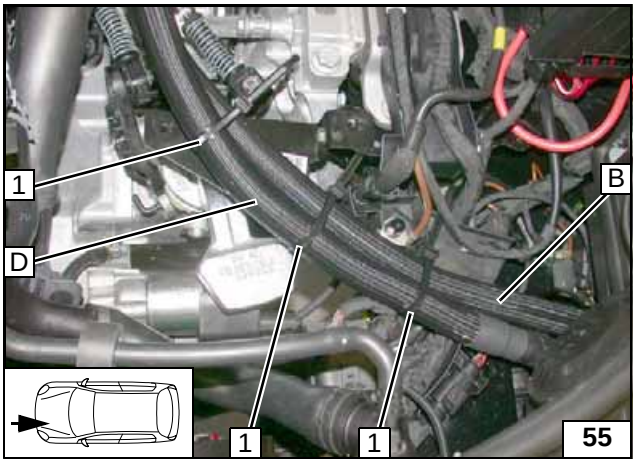
Hose installation diagram

All spring clips without a specific designation = 27 mm dia. **2** = 25 mm dia. spring clip [2x]
All connecting pipes without a specific designation = dia. 20x20 mm. All hose clamps = 20-27 mm dia.
1 = Black (sw) rubber isolator .



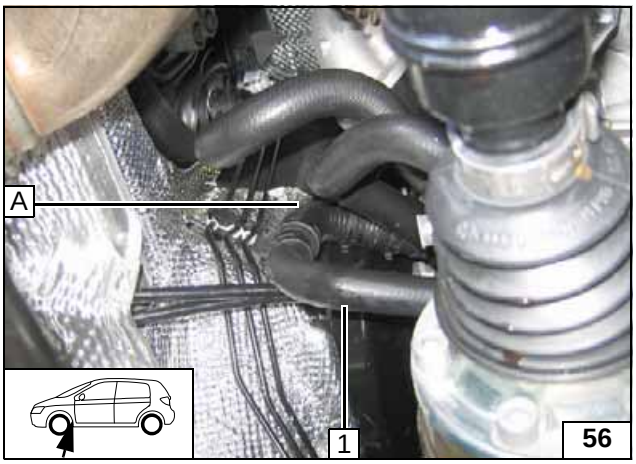
Routing in engine compartment

Close clip-type cable tie **1** [3x]!



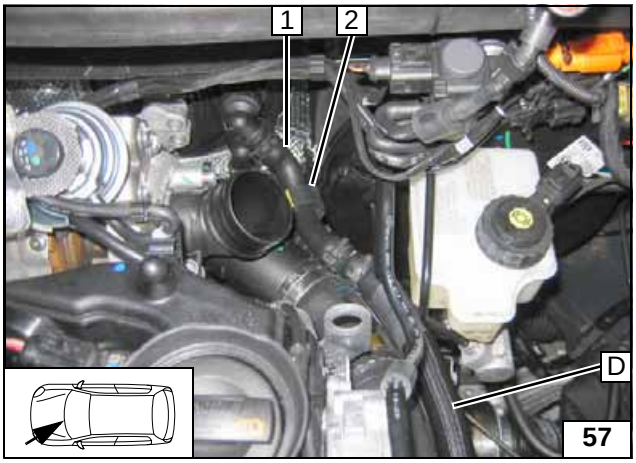
Routing in engine compartment

1 Hose of engine outlet

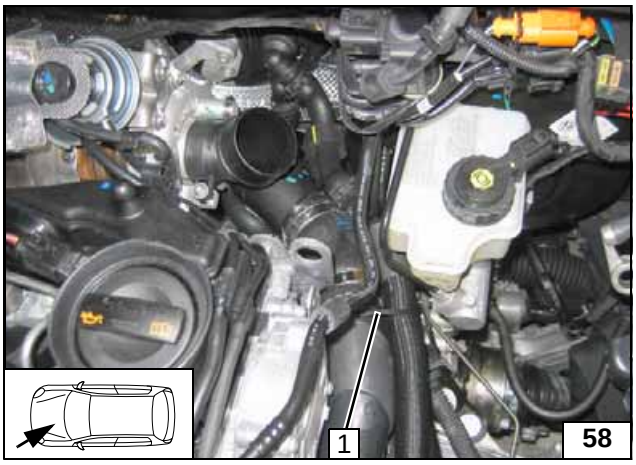


Connecting engine outlet

1 Hose on heat exchanger inlet
2 Position black (sw) rubber isolator



Connecting heat exchanger inlet

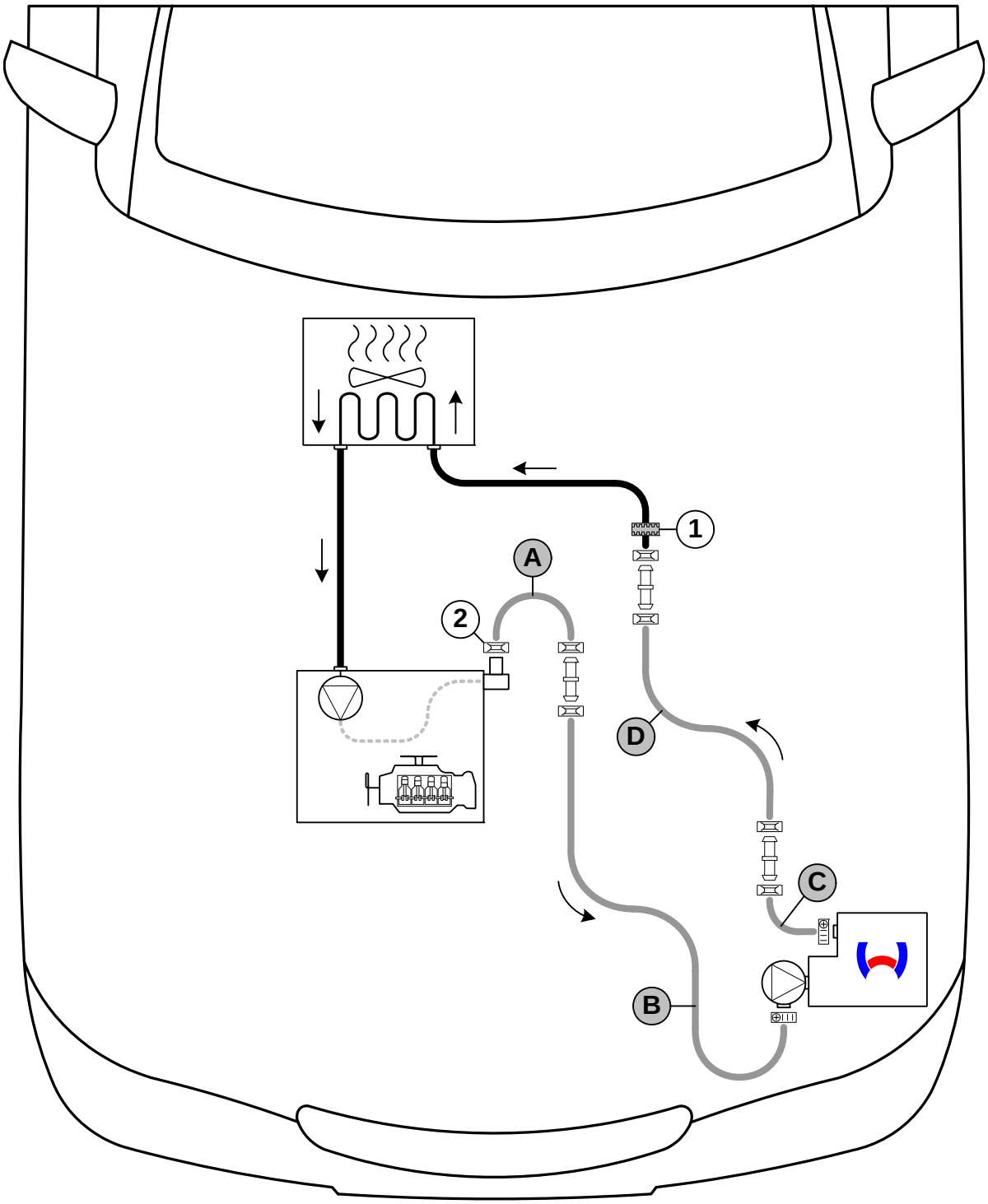


Position hose **B** and **D** with cable tie **1**!

Aligning hoses

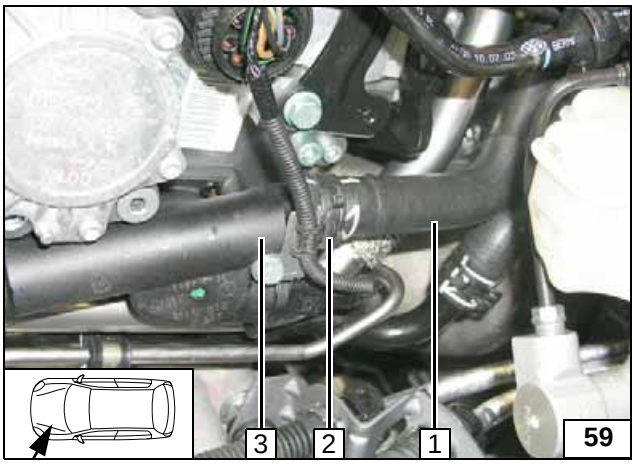
Coolant circuit 1.9 / 2.0 TDI without DPF

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 hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:



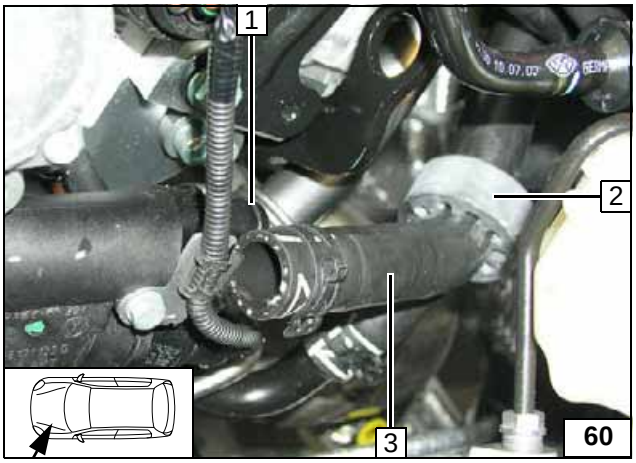
Hose installation diagram

All spring clips without a specific designation = 27 mm dia. **1** = Original vehicle spring clip .
All connecting pipes = 20x20 mm dia.! All hose clamps = 20-27 mm dia.!
2 = Black (sw) rubber isolator .



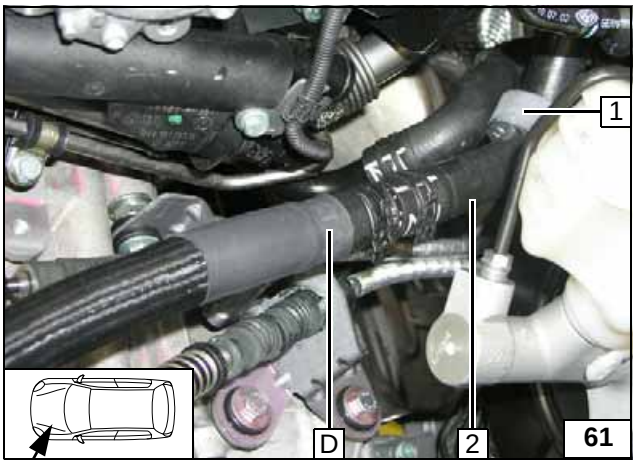
Pull off hose on engine outlet **1** to heat exchanger inlet on connection piece of engine outlet **3**. Spring clip **2** will be reused.

Cutting point



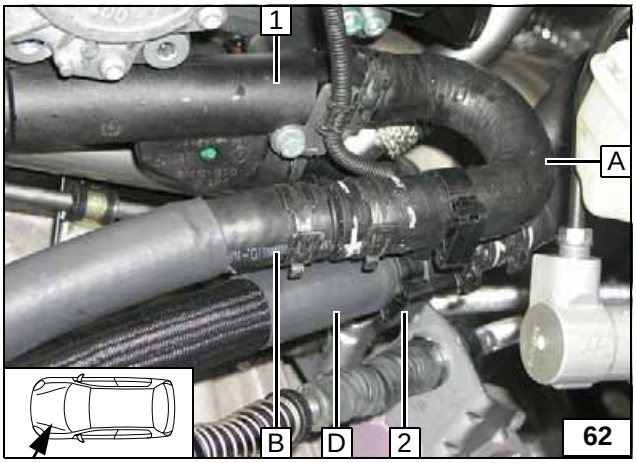
1 Connection piece for engine outlet
2 Slide on black (sw) rubber isolator
3 Hose to the heat exchanger outlet pulled off

Pull off hose from the engine outlet



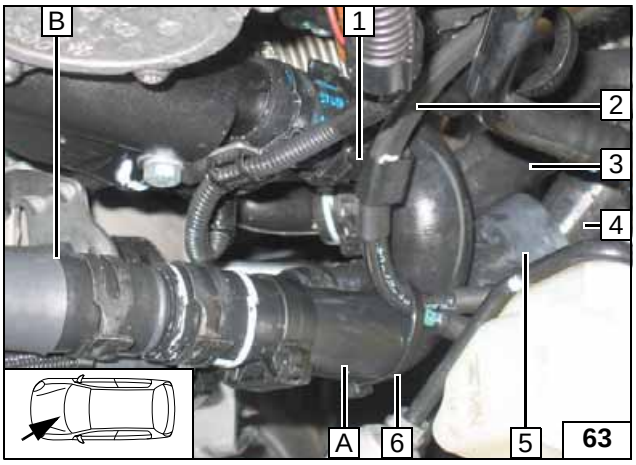
1 Align black (sw) rubber isolator
2 Hose on heat exchanger inlet

Connection on the heat exchanger inlet



1 Connection piece for engine outlet
2 27x27 mm dia double clip on hose **A** and **D**

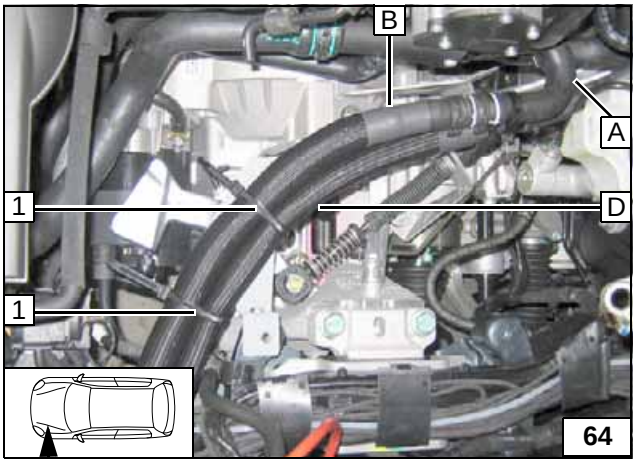
Connecting engine outlet



Lines **2** and original vehicle double clip **1** depend on the vehicle equipment.

3 Hose on heat exchanger outlet
4 Hose on heat exchanger inlet
5 Black (sw) rubber isolator
6 Cable tie

Aligning hoses and lines

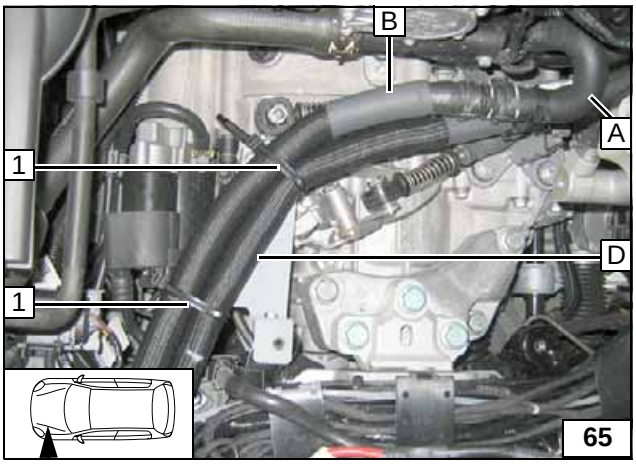


Gear change versions

Ensure freedom of movement of the gear change.

1 Clip-type cable tie [2x]

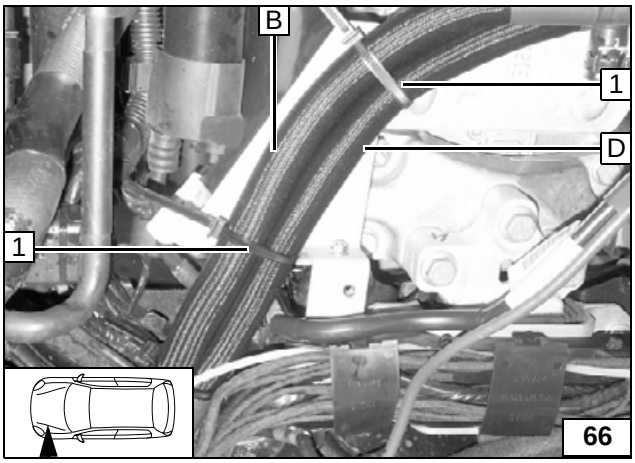
Align hoses for gear change version 1



Ensure freedom of movement of the gear change.

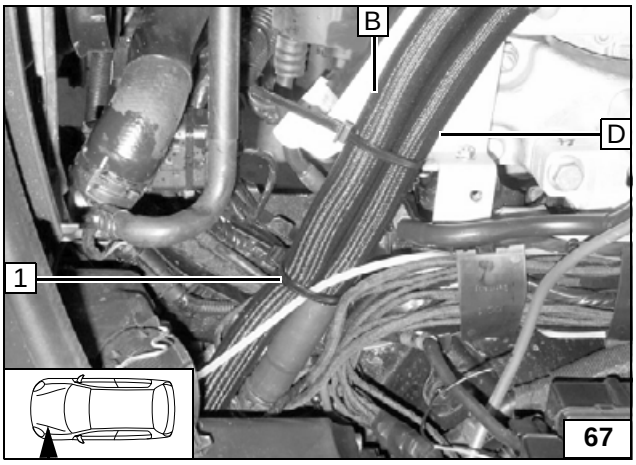
1 Clip-type cable tie [2x]

Align hoses for gear change version 2



1 Clip-type cable tie [2x]

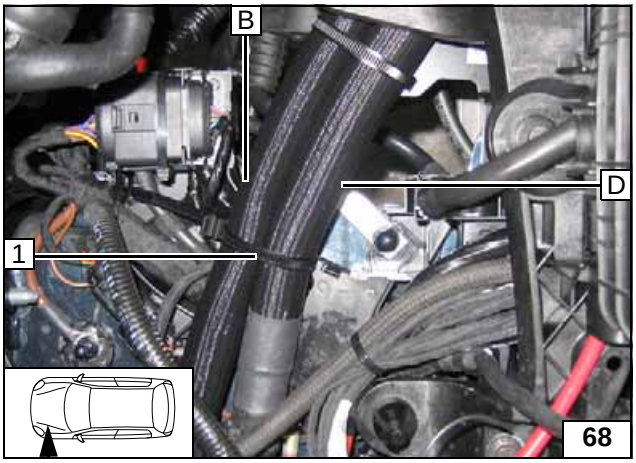
Align hoses for DSG



Air filter versions

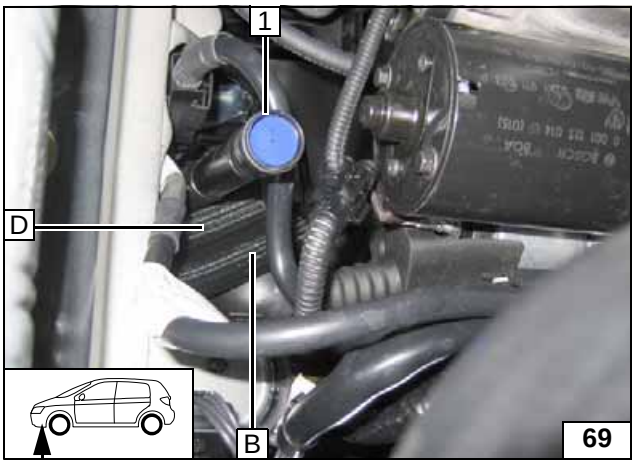
1 Clip-type cable tie

Aligning hoses for air filter version 1



1 Clip-type cable tie

Aligning hoses for air filter version 2

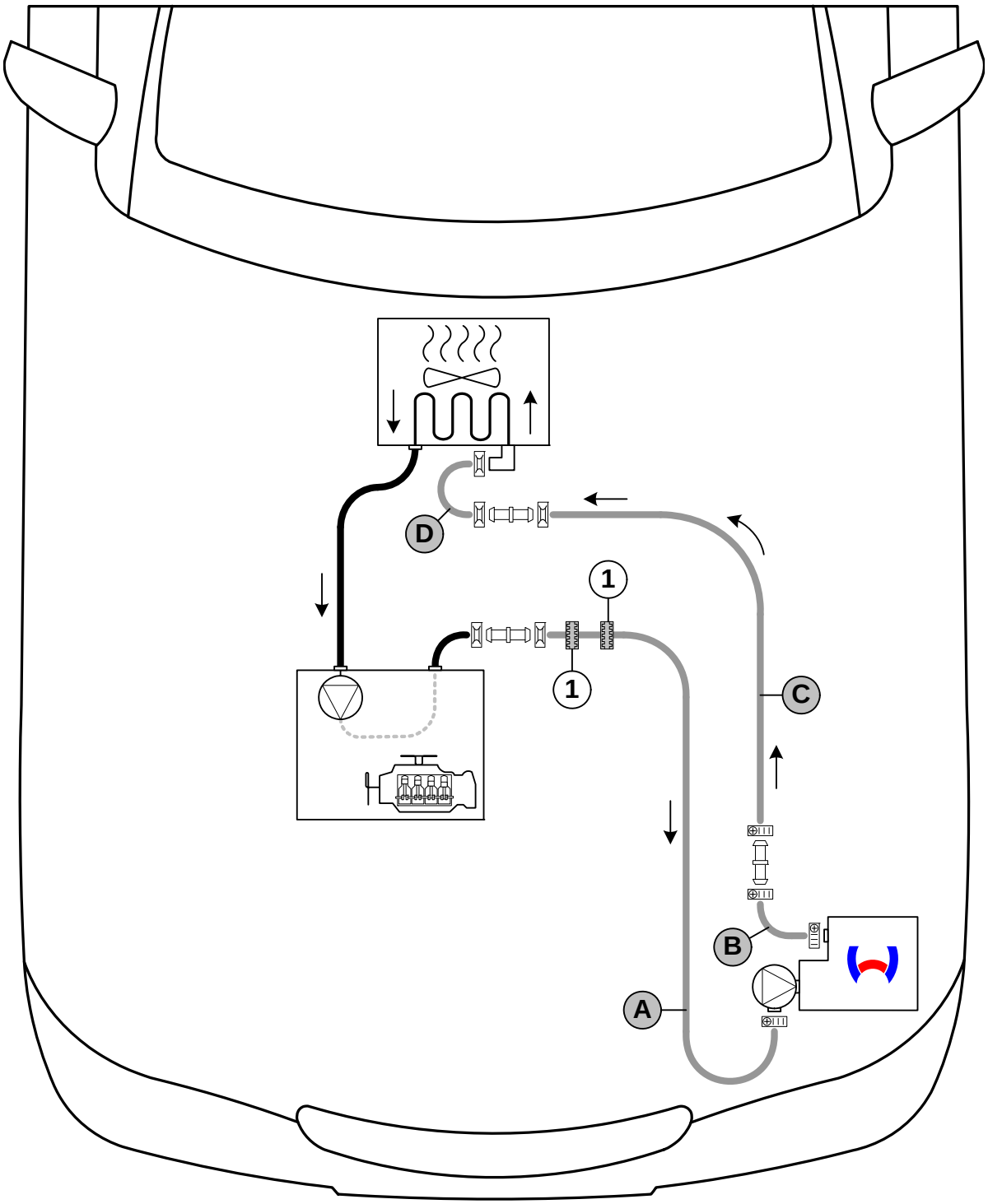


Install air filter on a trial basis.
Hose **D** and **B** run in front of line **1** of the air filter.
Watch for sufficient distance between the air filter box and hoses **B** / **D**, bend hose brackets, if necessary!

Aligning hoses for air filter version 2

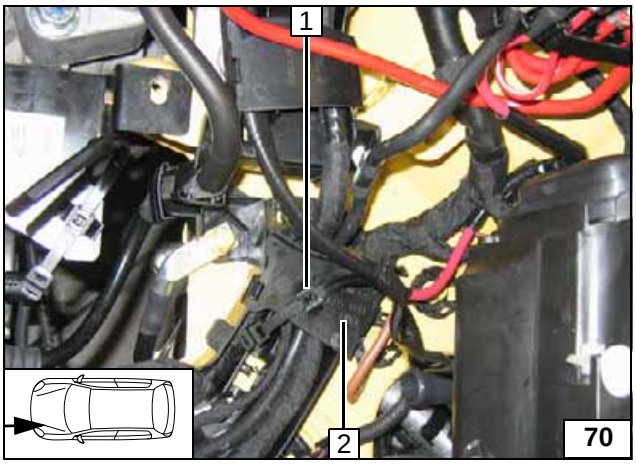
Coolant circuit 1.9 / 2.0 TDI with DPF

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 hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:



Hose installation diagram

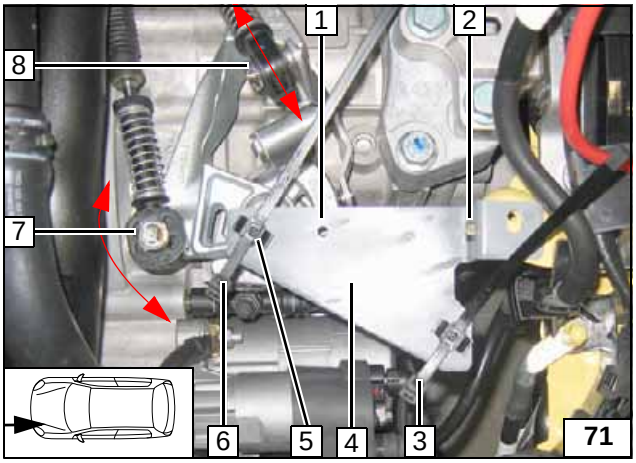
All spring clips = dia. 27mm! All connecting pipes = 20x20 mm dia.
All hose clamps = 20-27 mm dia. **1** = Black (sw) rubber isolator [2x]!



When drilling, watch lines located behind!
The closure of cable tie **1** points forward!

1 Cable ties in 6 mm dia. hole of cable duct cover
2 Cover of cable duct

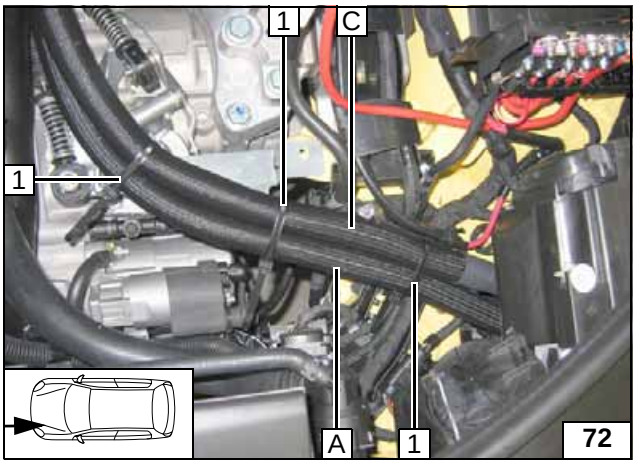
Install clip-type cable tie



For transmissions with gear change **7, 8** according to the figure, the clip-type cable tie **6** is installed in the hole **5**. The closures of the clip-type cable ties **3, 6** point backward. Hole **1** remains open.

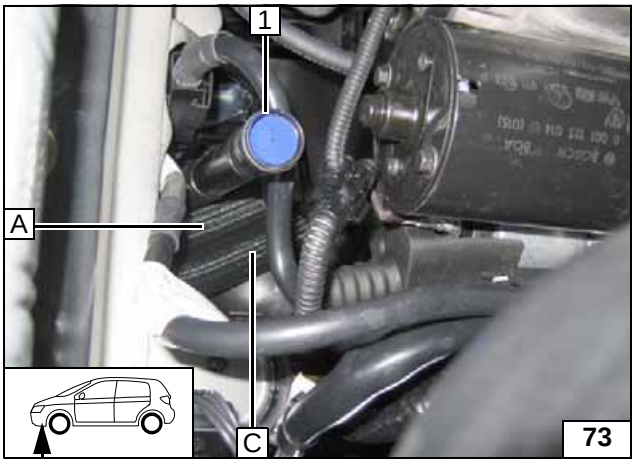
2 Original vehicle hole **,** M6x20 bolt, flanged nut
4 Bracket

Installing bracket for coolant hoses



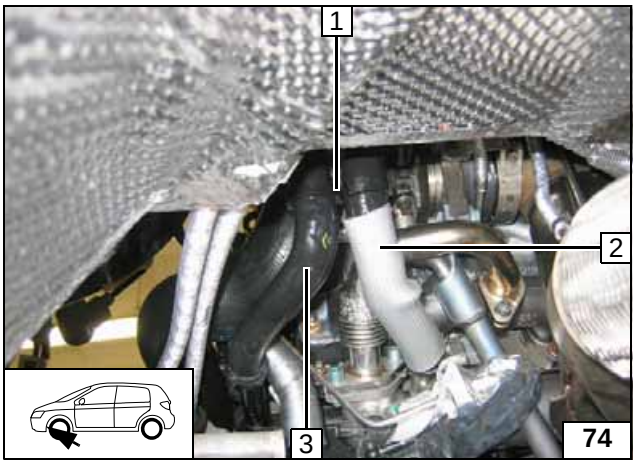
1 Clip-type cable tie [3x]

Hose installation



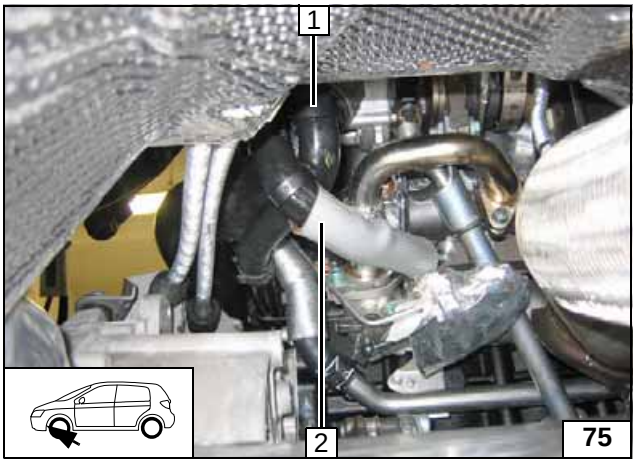
Install air filter on a trial basis.
Hose **A** and **C** run in front of line **1** of the air filter.
Watch for sufficient distance between the air filter box and hoses **A** / **C**, bend hose brackets, if necessary!

Hose installation



1 Disconnect the original vehicle spacer bracket
2 Hose on heat exchanger inlet
3 Hose on heat exchanger outlet

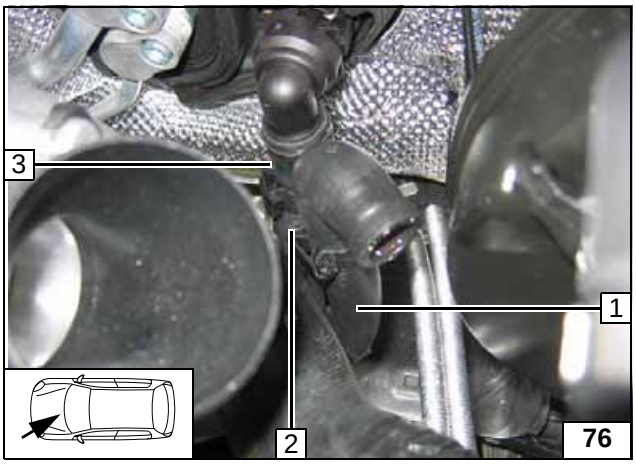
Routing hose on heat exchanger inlet



Install coolant hose of the engine outlet to heat exchanger inlet **2** kink-and friction-free.

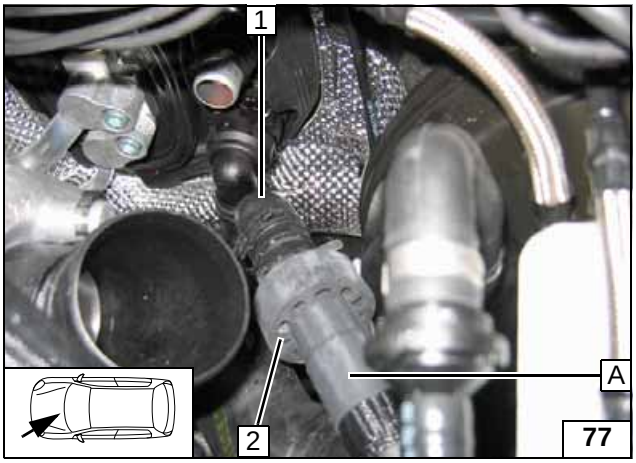
1 Hose on heat exchanger outlet

Routing hose on heat exchanger inlet



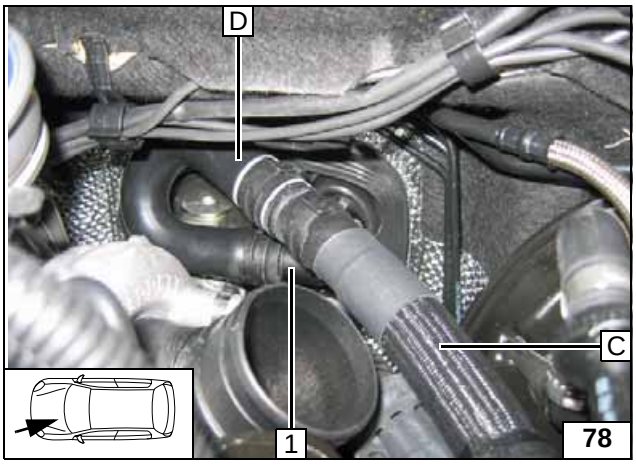
1 Hose of engine outlet, turned toward the front
2 Double clip
3 Hose on heat exchanger outlet

Installing double clip



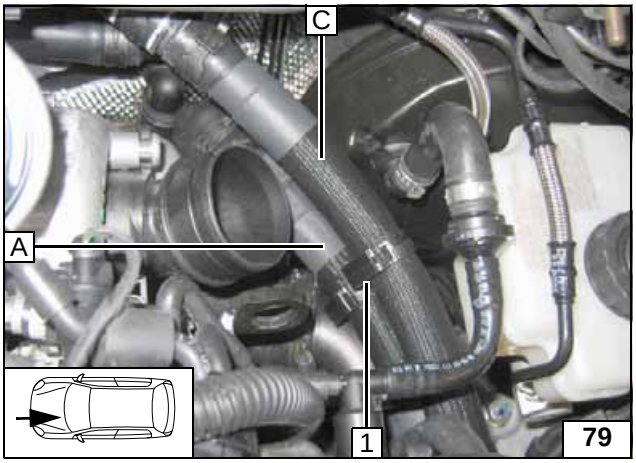
1 Hose of engine outlet, turned toward the front
2 Position black (sw) rubber isolator

Connecting engine outlet



Before connecting, fill the coolant hoses with coolant.
Re-connect pre-assembled coupling piece **1** on connecting piece of heat exchanger inlet.

Connection of heat exchanger inlet



1 Double clip

Installing double clip

Fuel

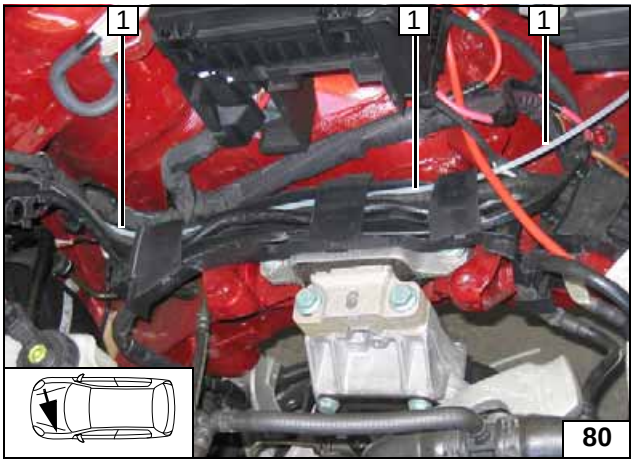
CAUTION!
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

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.

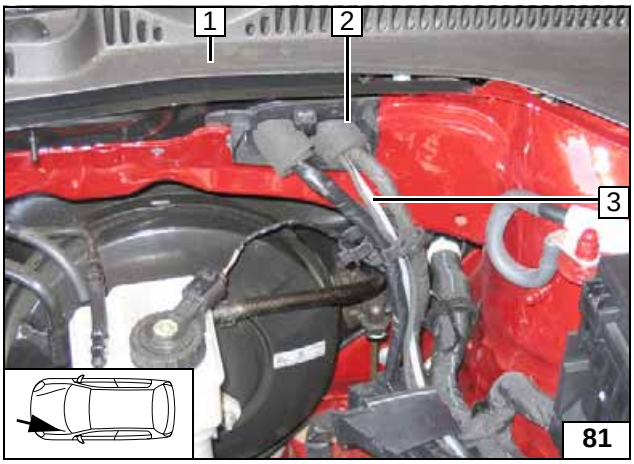
WARNING!
The fuel line and wiring harness are routed to the metering pump in as shown in the wiring harness routing diagram.

Installing line



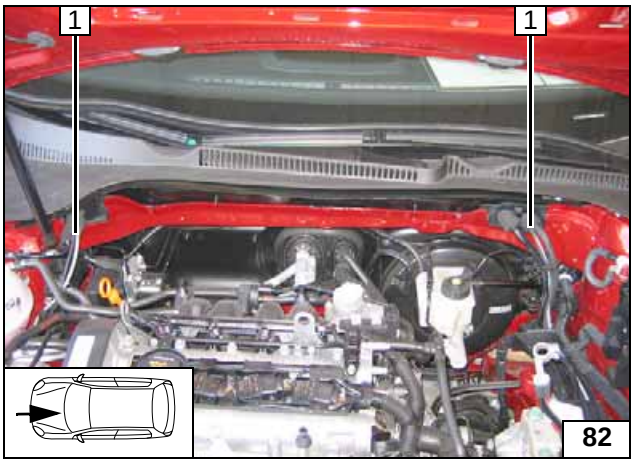
1 Fuel line

Routing into coolant reservoir



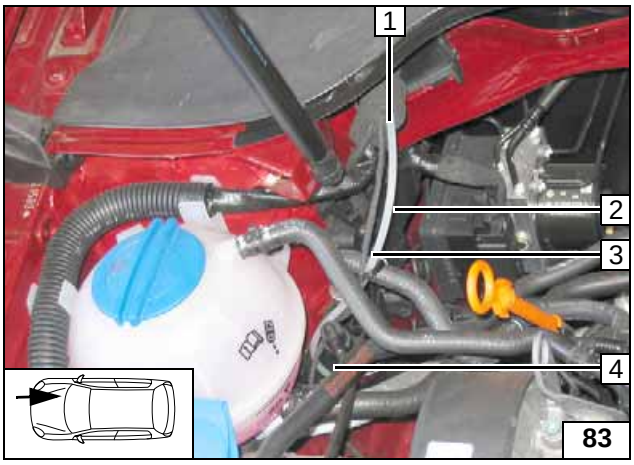
1 Coolant reservoir cap detached
2 Existing pass through
3 Fuel line and wiring harness of metering pump

Routing in coolant reservoir



Fasten fuel line and wiring harness of metering pump in coolant reservoir on original vehicle lines with cable tie.
Pay particular attention to freedom of movement of wiper linkage.

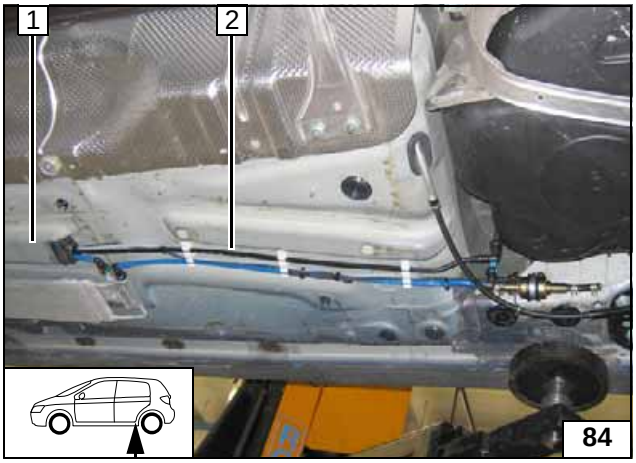
1 Fuel line and wiring harness of metering pump



Insert fuel line **2** and wiring harness of metering pump **3** in original vehicle line duct **4** and route to the underbody.

1 Existing pass through

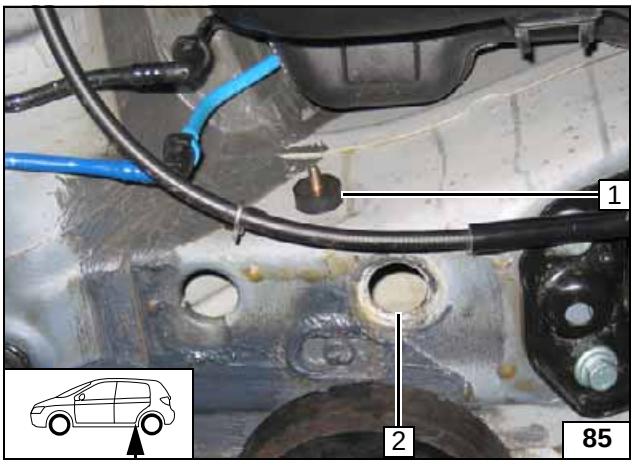
Installing lines



Route fuel line and wiring harness of metering pump along original vehicle fuel lines **2** to fuel tank.
Fuel line and wiring harness of the metering pump in vehicles without underbody trim must also be connected with cable ties.

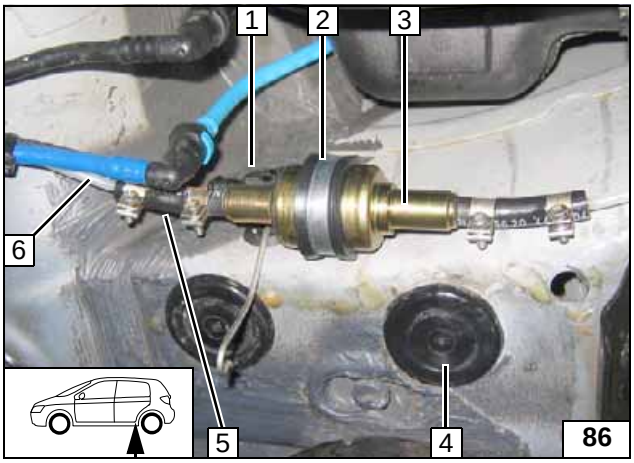
1 Line duct

Installing lines



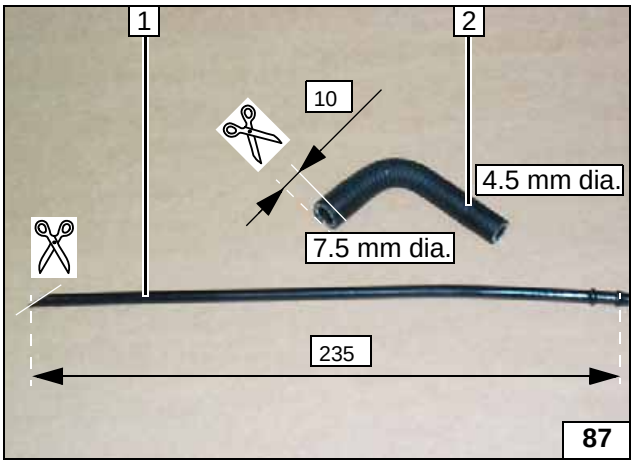
1 Silent block, large diameter washer, M6 flanged nut
2 Remove sealing plug

Installing silent block



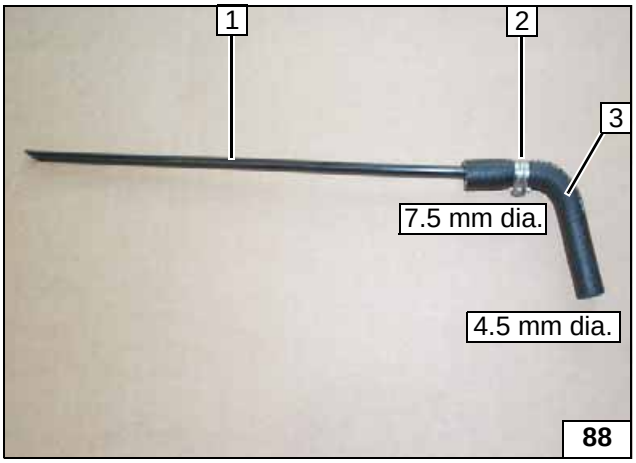
1 Wiring harness of metering pump, connector mounted
2 Rubber-coated p-clamp, flanged nut
3 Metering pump
4 Plug remounted
5 Hose section, 10 mm dia. clamps [2x]
6 Fuel line of heater

Installing metering pump



1 Standpipe
2 90° moulded hose

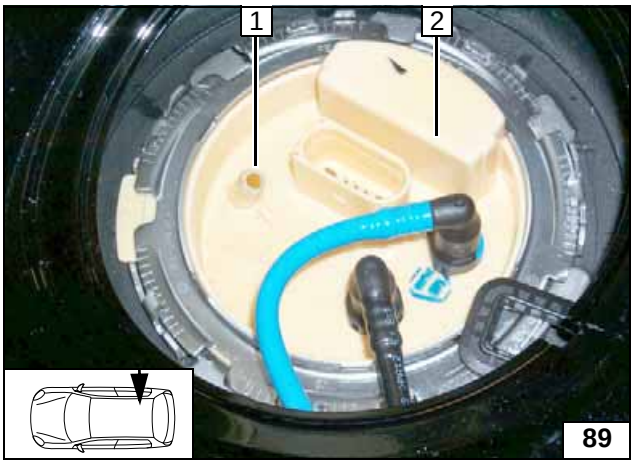
Cutting standpipe and moulded hose to length



10 mm dia. Caillau clamp **2** in center between beads on end of standpipe.

1 Standpipe
3 90° moulded hose

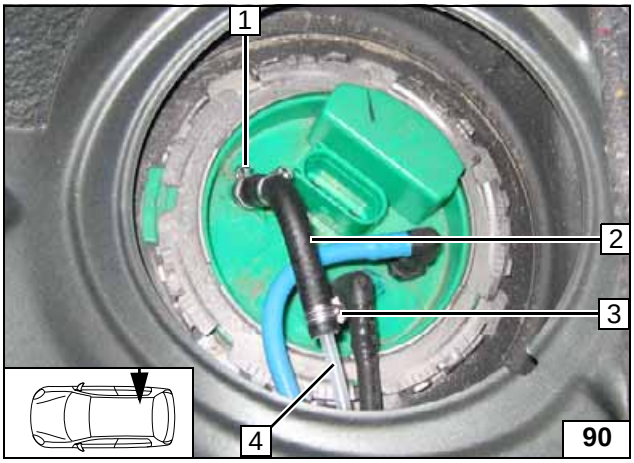
Premounting standpipe and moulded hose



Cut off 3 mm from blind plug **1**.

2 Fuel sender

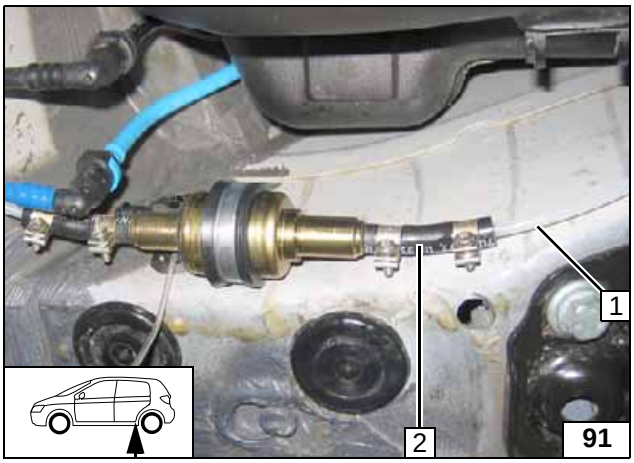
Cutting off blind plug



Should the standpipe be slightly curved on delivery, then it must be aligned so that the end points toward the rear right.
Otherwise there is a danger of the fuel gauge being impaired.

1 13.5 mm dia. Caillau clamp
2 Preassembled moulded hose with standpipe
3 10 mm dia. Caillau clamp
4 Fuel line

Connection of fuel-tank sending unit



Ensure sufficient distance to neighboring components, adjust, if necessary.

1 Fuel line from fuel standpipe
2 Hose section, 10 mm dia. hose clamp [2x]

Exhaust gas

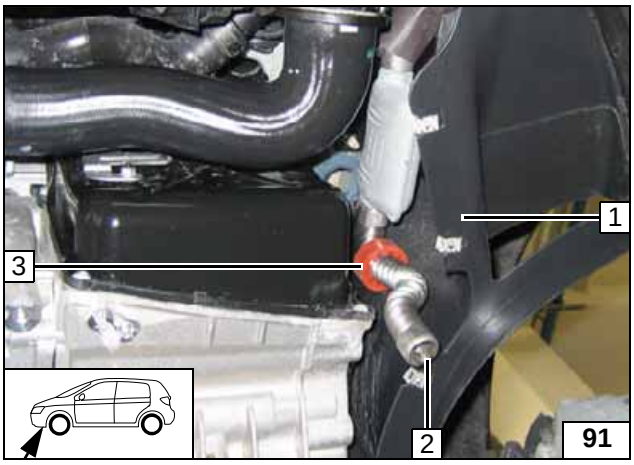
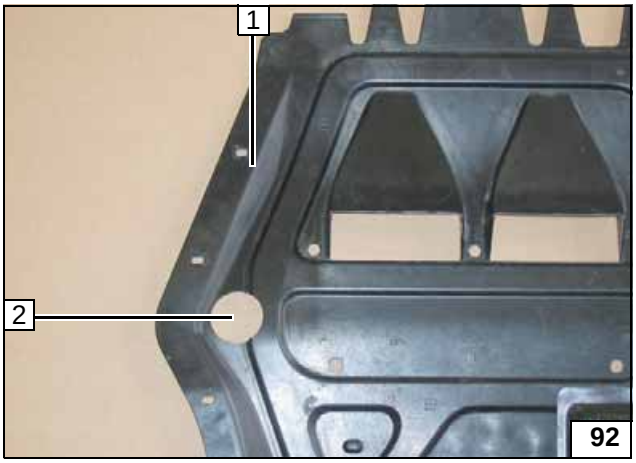


Photo shows vehicle with DSG. Mount wheel well trim **1**. Align exhaust end section 2 and red (rt) rubber isolator 3 according to the figure. Ensure sufficient spacing of exhaust end section to transmission and to wheel well trim.

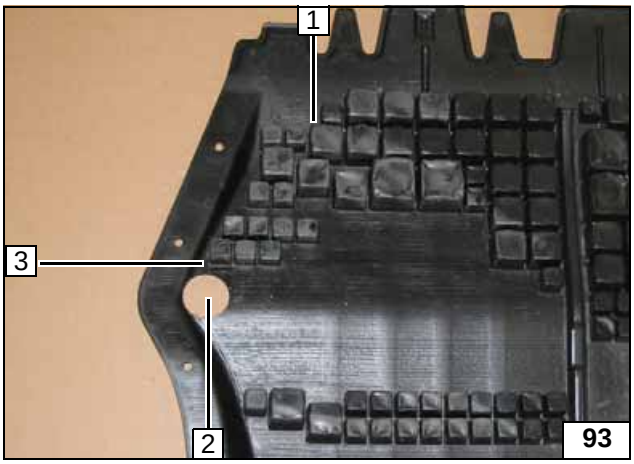
Aligning exhaust end section



The design of the underride protection depends on the vehicle equipment and is differentiated according to version **1** and **2**.

1 Underride protection
2 42 mm dia. hole

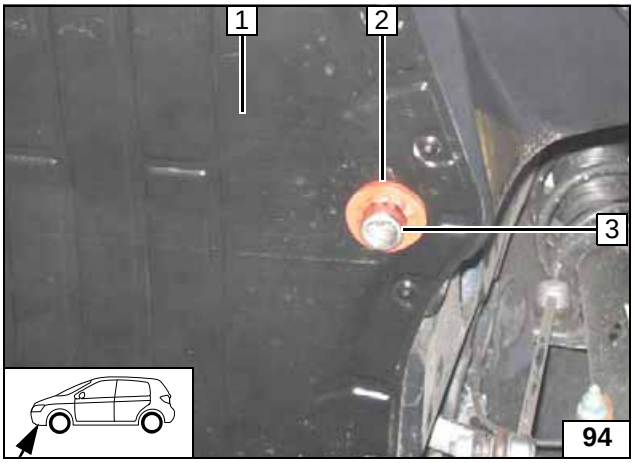
Version 1: Hole in underride protection



Cut away insulation **3** in area of hole.

1 Underride protection
2 42 mm dia. hole

Version 2: Hole in underride protection



Align exhaust end section **3** flush on red rubber isolator **2**.

1 Underride protection

Mounting rubber isolator

Final Work

WARNING!
Reassemble the disassembled components in reverse order.
Check all hoses, spring and Caillau clamps, as well as all electrical connections for firm seating.
Secure all loose cables using cable ties.
Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111 329).

- Connect the battery
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set digital timer, teach telestart
- Adjust vehicle heater in accordance with "Operating Instructions for End Customer"
- Check the proper operation of the parking heater, see the operating instructions/installation instructions.
- File included vehicle-specific "Operating Instructions for End Customer" in vehicle logbook
- Place the "Switch off parking heater before refueling" signboard in the area of the filler neck

Adjusting passenger compartment monitoring

WARNING!
This can only be carried out at an authorized workshop! Observe the applicable repair manual of the respective vehicle.

- Connect the VAS tester
- Open Item 46 (Central Module of Comfort System)
- Go to Item 10 (Adjustment)
- Follow the request for the code entry and enter the code 15
- Reduce the sensitivity of the passenger compartment monitoring to 50 %
- Save this setting
- The adjustment of the sensitivity of the passenger compartment monitoring is completed.

Webasto
Feel the drive

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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.

In vehicles with passenger compartment monitoring , this must be de-activated in addition to the vehicle setting for the heating process.
Please refer to the Operating Manual of the vehicle for instructions concerning the de-activation.

If the summer/winter switch option has been installed, this must be switched in accordance with the time of year. The heater will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter heat and in the position Summer .

Before parking the vehicle, make the following settings:

without Climatronic

Air outlet to windscreen
Set fan to level "1", or possibly "2"
Set temperature to "max."

1 Set temperature on both sides to "HI".

Climatronic