# Water Heater



Thermo Top E Parking Heater 00 0003 Thermo Top C Parking Heater 00 0002 Thermo Top P Parking Heater 00 0104

Installation documen	tation
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# 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.

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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.

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Remote option (Telestart)	10		10

#### Validity

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

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
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).

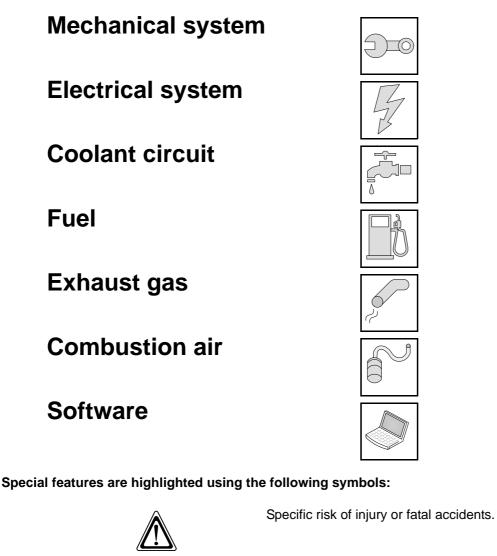
Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329). When installing an IPCU, the appropriate settings must be checked and set prior to the installation!

#### **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.



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.

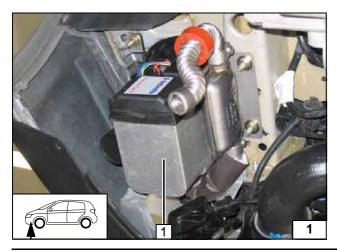
All dimensions are in mm! Tightening torque of hose clamps = 2.0 + 0.5 Nm! Tightening torque of Ejot screws, Ejot studs = 10 Nm!

## **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



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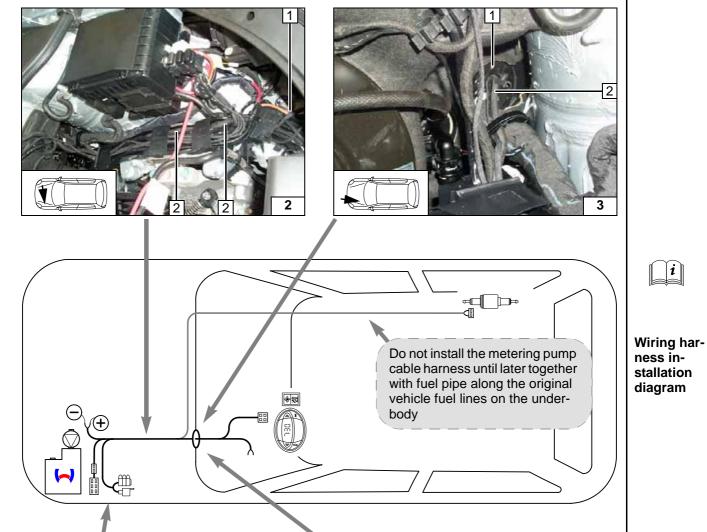
## **Electrical system**

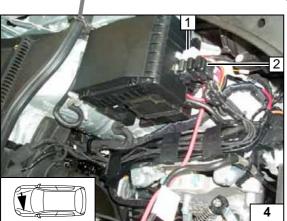
#### Wiring harness routing

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

#### Wiring harness pass through

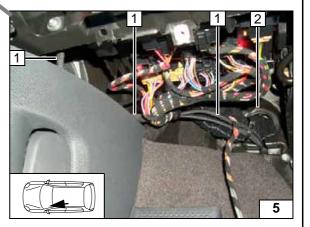
- **1** Original vehicle wiring harness pass through 2 Wiring harness of fan controller and heater
- control





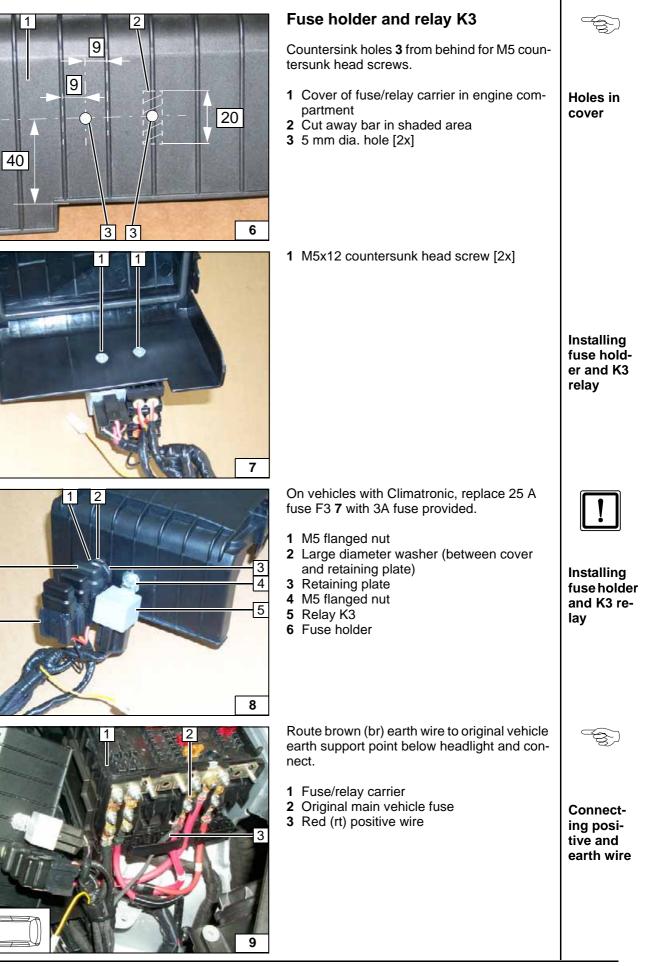
Fuse holder, relay K3

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

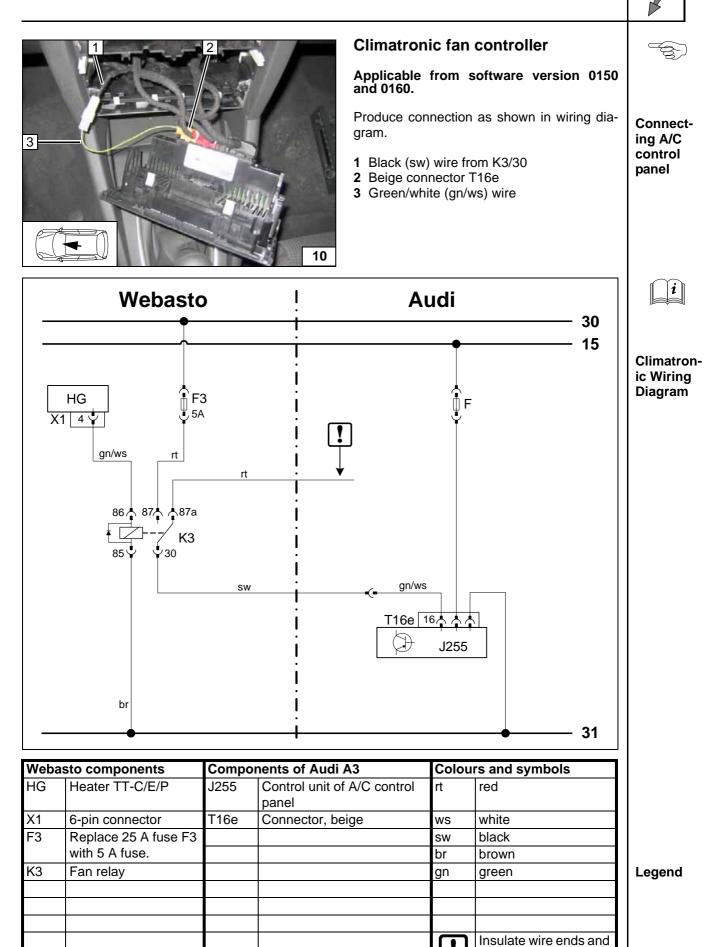


#### Wiring harness pass through

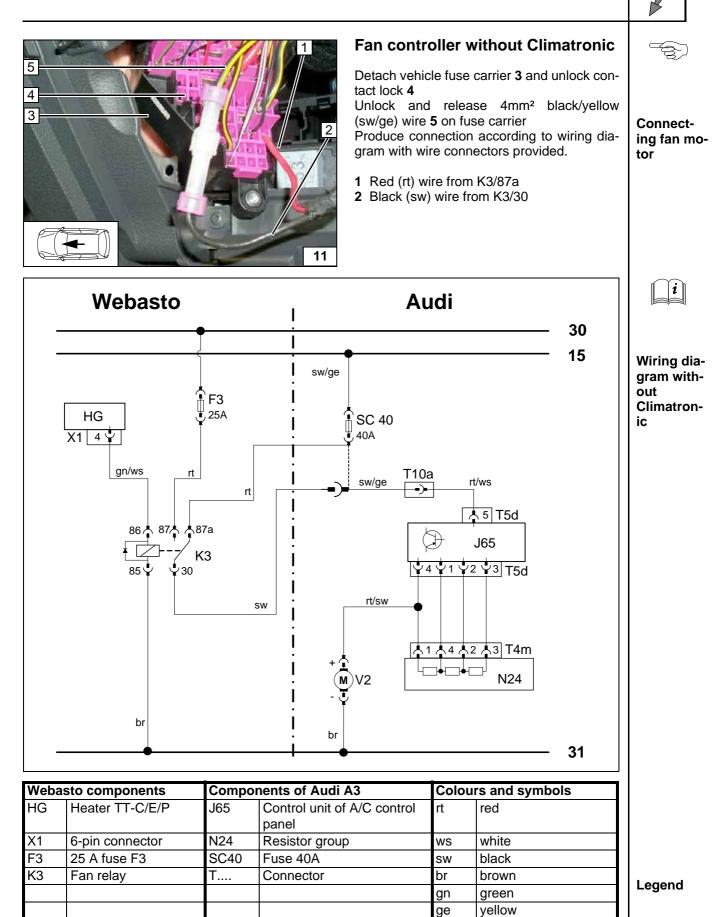
- **1** Wiring harness of fan controller and heater control
- 2 Original vehicle wiring harness pass through



7

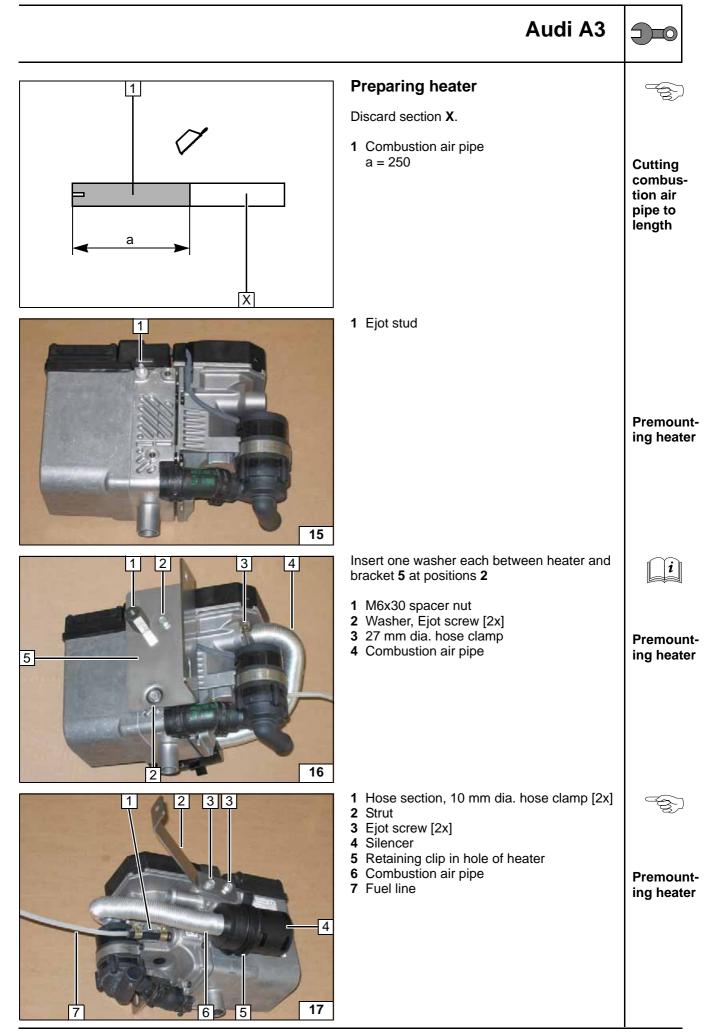


tie back Wiring colours may vary.



Wiring colours may vary.

	Digital timer / Summer/winter switch option 1 Digital timer	i
	2 Summer/winter switch	Installing digital tim- er
	Remote option (Telestart)	i
	If M6 screw <b>2</b> is not present, then use suitable M6 screw with spring lockwasher. Drill out upper hole of bracket to 6.5 mm dia.	
	<ol> <li>Receiver</li> <li>M6 bolt in existing threaded hole</li> <li>Bracket</li> </ol>	Installing receiver
	1 Antenna	Installing
14		antenna



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Audi A3	
<ul> <li>Discard section X.</li> <li>1 Exhaust pipe a = 240</li> <li>2 Exhaust end section b = 240</li> </ul>	Preparing exhaust pipe
<ol> <li>M6x16 bolt, spring lockwasher</li> <li>Preassembled M6x30 spacer nut</li> <li>Silencer</li> </ol>	Installing silencer
<ul><li>Shape exhaust pipe 2 according to figure and slide on insulation 3!</li><li>1 Hose clamp [2x]</li></ul>	Installing exhaust pipe
<ul> <li>Shape exhaust end section 1 according to figure!</li> <li>1 Hose clamp</li> <li>2 Slide on red (rt) rubber isolator, without groove</li> </ul>	Installing exhaust end sec- tion

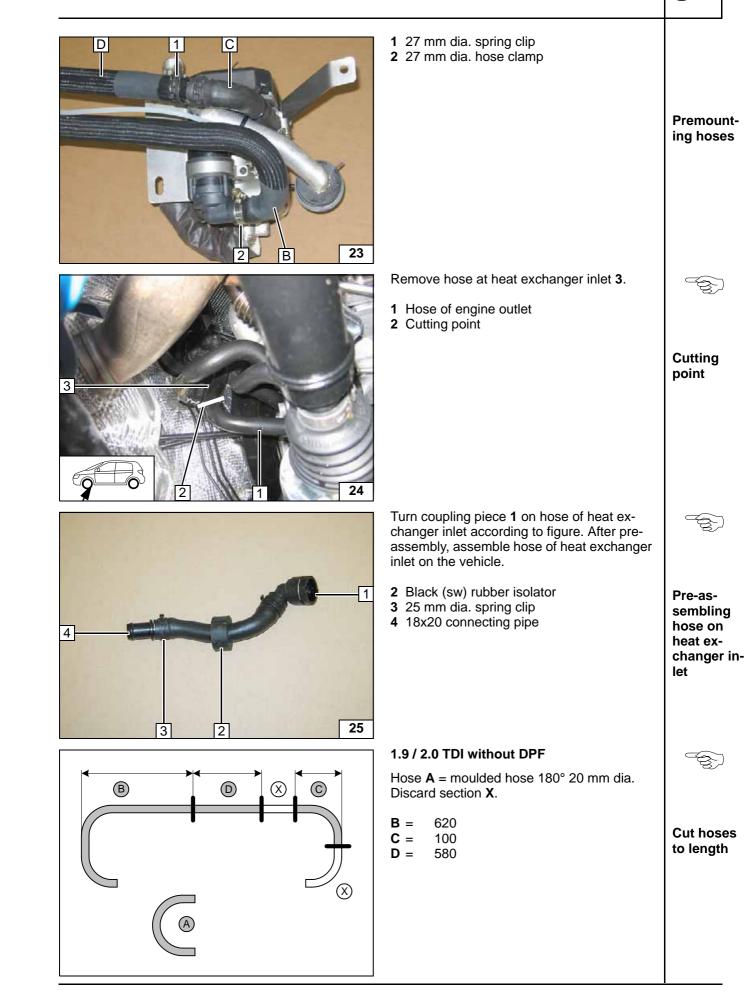
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## Audi A3 Preparing coolant circuit 1.6 TDI with DPF Discard section X B (D Cut hoses **B** = 840 to length **C** = 100 **D** = 720 Push braided protection hoses onto hose A 1 Ś and **C** and cut to length. B Cut heat shrink plastic tubing to length. т'ъ **1** 25 mm long heat shrink plastic tubing [4x] Preparing hoses 1 D L) 1 1 1 27 mm dia. spring clip 1 С **2** Cable tie [2x] 3 27 mm dia. hose clamp 4 4 20x20 connecting pipe Assem-2 bling hose С 3 21 1 20x20 connecting pipe, 27 mm dia. spring 1 2 clip [2x] 2 18x20 connecting pipe, 27 mm dia. spring clip Preparing hose A and В В 22 В

 $\Box \Box 0$ 

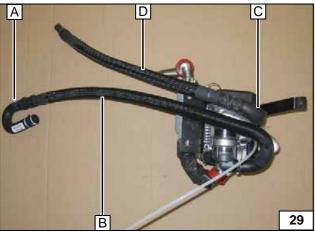
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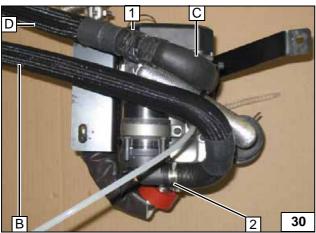
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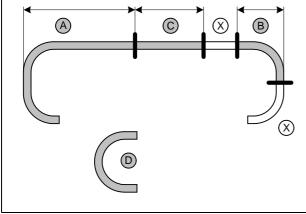
	Audi A3	
1 	Push braided protection hoses onto hose <b>B</b> and <b>D</b> and cut to length. Cut heat shrink plastic tubing to length.	
	<b>1</b> 50 mm long heat shrink plastic tubing [4x]	Preparing hoses
1 D 2	Connect hose <b>A</b> and <b>B</b> . Observe positioning of hose <b>A</b> and <b>B</b> according to the following figure!	(
	<ol> <li>20x20 connecting pipe, 27 mm dia. spring clip</li> <li>Push on 27 mm dia. spring clip [2x]</li> <li>20x20 connecting pipe, 27 mm dia. spring clip [2x]</li> </ol>	Premount- ing hoses
2 B 26	When assembling hoses <b>A</b> and <b>B</b> , lift hose <b>A</b> by approx. 20 mm from the overlay.	- E
		Premount- ing hose A and B
	<ol> <li>Cable tie [2x]</li> <li>27 mm dia. hose clamp</li> <li>20x20 connecting pipe, 27 mm dia. spring clip</li> </ol>	Assem- bling hose C
9015604B EN		15

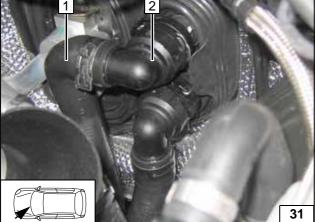
Installing hoses





29		
-	Connect hose <b>C</b> and <b>D</b> .	
	<ol> <li>27 mm dia. spring clip</li> <li>27 mm dia. hose clamp</li> </ol>	
		Installing hoses
30		
	1.9 / 2.0 TDI with DPF	
	Hose $D =$ moulded hose 180° 20 mm dia. Discard section <b>X</b> .	
	A = 880 B = 100 C = 880	Cut hoses to length
$\otimes$	Pull off and remove coupling piece on con- necting piece of heat exchanger inlet <b>2</b> , will be re-used! <b>1</b> Coolant hose for engine outlet	
		Removing coupling piece

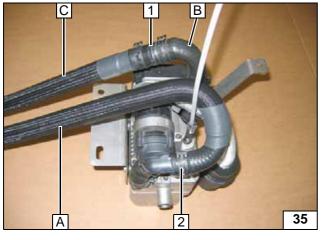




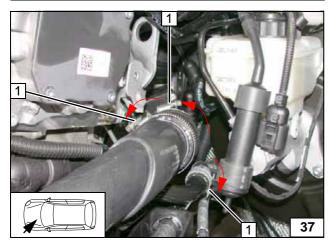
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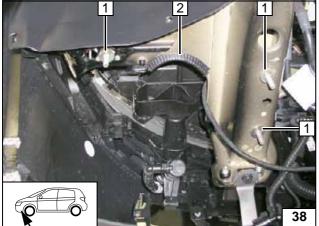
	Audi A3	
1 	Push braided protection hoses onto hose <b>A</b> and <b>C</b> and cut to length. Cut heat shrink plastic tubing to length.	
	<b>1</b> 50 mm long heat shrink plastic tubing [4x]	Preparing coolant hoses
	Push black (sw) rubber isolator <b>1</b> [2x] on hose <b>A</b> . Connect hose <b>C</b> and <b>D</b> .	
	<b>2</b> 20x20 connecting pipe, 27 mm dia. spring clip [2x]	
		Premount- ing hoses
D 2 C 32		
	Coupling piece of connecting piece on heat exchanger inlet. Connect coupling piece <b>3</b> with hose <b>D</b> .	
	<ol> <li>20x20 connecting pipe, 27 mm dia. spring clip</li> <li>27 mm dia. spring clip</li> <li>Coupling piece on heat exchanger inlet</li> </ol>	Premount- ing hoses
	<ol> <li>Cable tie [2x]</li> <li>27 mm dia. hose clamp</li> <li>20x20 connecting pipe, 27 mm dia. spring clip</li> </ol>	Assem- bling hose C

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

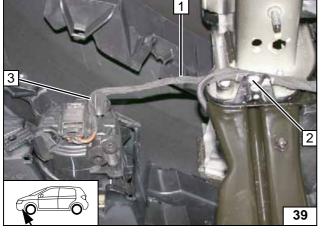








<ol> <li>20x20 connecting pipe, 27 mm dia. spring clip [2x]</li> <li>27 mm dia. spring clip</li> </ol>	Installing hoses
Preparing fuel line	
<ol> <li>Fuel line</li> <li>Hose section, 10 mm dia. Caillau clamp [2x]</li> </ol>	
	Premount- ing fuel line
Preparing installation location	(fig)
Figure shows 1.6 TDI. Align clamp locks <b>1</b> [3x] of original vehicle clamps according to figure!	Align clamps
Secure large diameter washer against falling with putty etc.	(fro
<ol> <li>Large diameter washer on original vehicle stud bolt [3x]</li> <li>100 mm edge protection</li> </ol>	Preparing installa- tion loca- tion





41



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.

# 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

Routing wiring harness

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 cliptype cable tie in air filter version

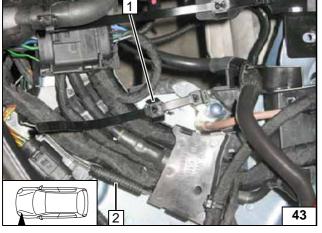
1

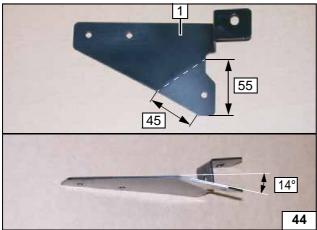
#### View from below!

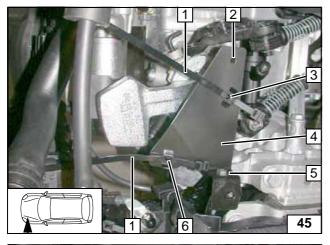
The clip-type cable tie of the air filter shown in the figure is assembled according to the following figure and the hose bracket according to the following figures.

Air filter version 2

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# 

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. Install clip-2 50 mm edge protection 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. Ì 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. Assemble 4 Bracket bracket for 5 M6x20 bolt, flanged nut, existing hole 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



Gear shift

version 2

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 cliptype cable ties 4, 8 point backward. Hole 2 remains open.

Ensure freedom of movement of the gear change.

1 Bracket

47

6

48

1

2

50

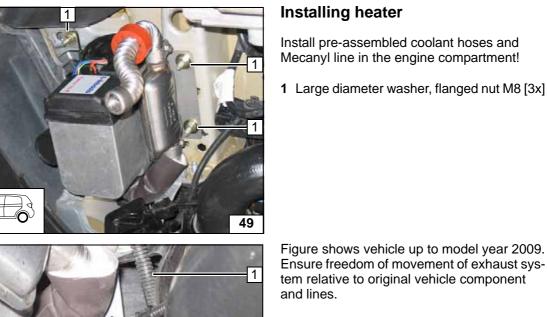
7 Original vehicle hole, M6x20 bolt, flanged nut

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



3 Exhaust pipe with insulation

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3

5

3

2

1



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

Watch routing of wiring harness. Danger of rubbing!

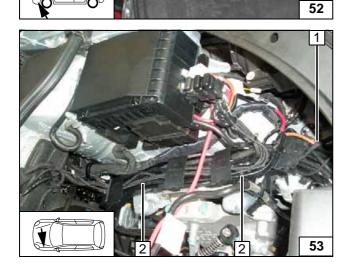
- 1 Wiring harness of heater
- 2 Clip cable tie in pre-perforated hole of heater unit cover
- 3 Cable tie

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2

Plug in wiring harness of heater

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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.

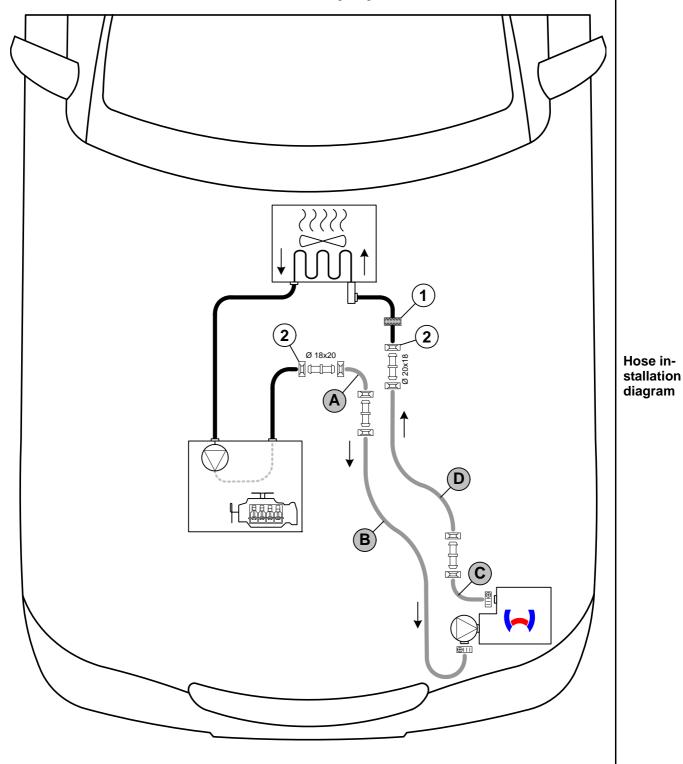


Routing wiring harness

# Coolant circuit 1.6 TDI with DPF

#### WARNING!

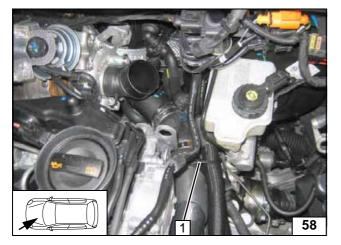
Any coolant running off should be collected using an appropriate container! Install hoses so that they are kink-free! Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant! The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



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

	Audi A3	
C C C C C C C C C C C C C C C C C C C		Routing in engine compart- ment
C T T T T T T T T T T T T T T T T T T T	close clip-type cable tie <b>1</b> [3x]!	Routing in engine compart- ment
	Hose of engine outlet	Connect- ing engine outlet
<sup>1</sup> <sup>2</sup>	Hose on heat exchanger inlet Position black (sw) rubber isolator	Connect- ing heat exchanger inlet

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



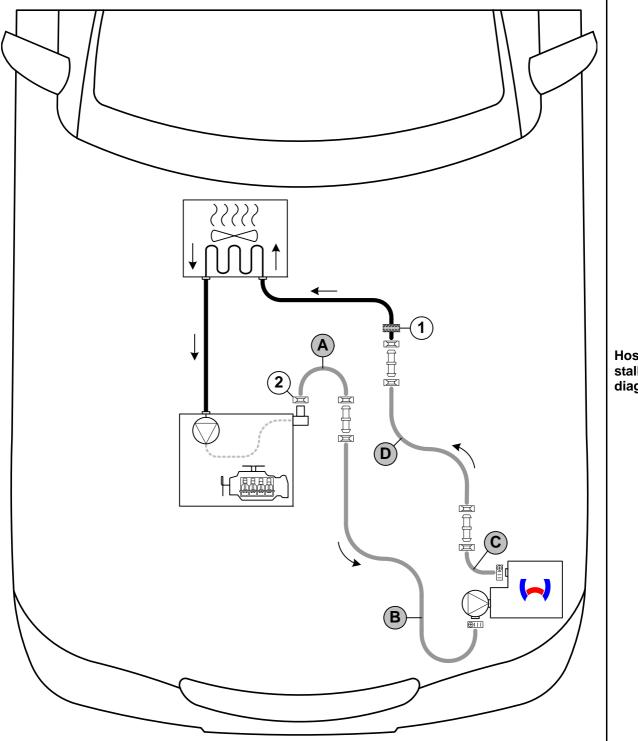


Aligning hoses

# Coolant circuit 1.9 / 2.0 TDI without DPF

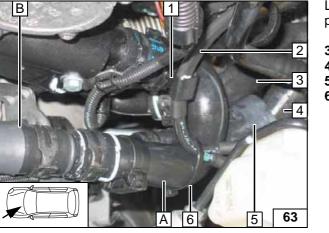
### WARNING!

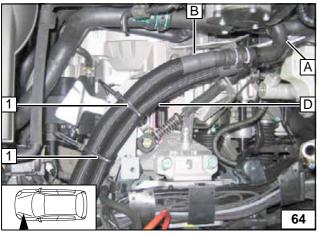
Any coolant running off should be collected using an appropriate container! Install hoses so that they are kink-free! Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant! The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



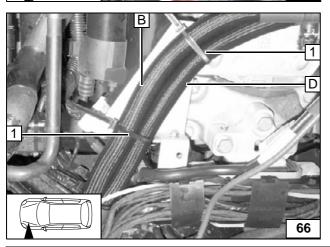
All spring clips without a specific designation  $\square = 27 \text{ mm}$  dia. **1** = Original vehicle spring clip  $\square = .$ All connecting pipes  $\square = 20x20 \text{ mm}$  dia.! All hose clamps  $\square = 20-27 \text{ mm}$  dia.! **2** = Black (sw) rubber isolator  $\square = .$  Hose installation diagram

Full 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
<ul> <li>1 Connection piece for engine outlet</li> <li>2 Slide on black (sw) rubber isolator</li> <li>3 Hose to the heat exchanger outlet pulled off</li> </ul>	Pull off hose from the engine outlet
<ul> <li>1 Align black (sw) rubber isolator</li> <li>2 Hose on heat exchanger inlet</li> </ul>	Connec- tion on the heat ex- changer in- let
<ul> <li>1 Connection piece for engine outlet</li> <li>2 27x27 mm dia double clip on hose A and D</li> </ul>	Connect- ing engine outlet





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

- 3 Hose on heat exchanger outlet4 Hose on heat exchanger inlet
- 5 Black (sw) rubber isolator
- 6 Cable tie

## Gear change versions

Ensure freedom of movement of the gear change.

1 Clip-type cable tie [2x]



Aligning

hoses and lines

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

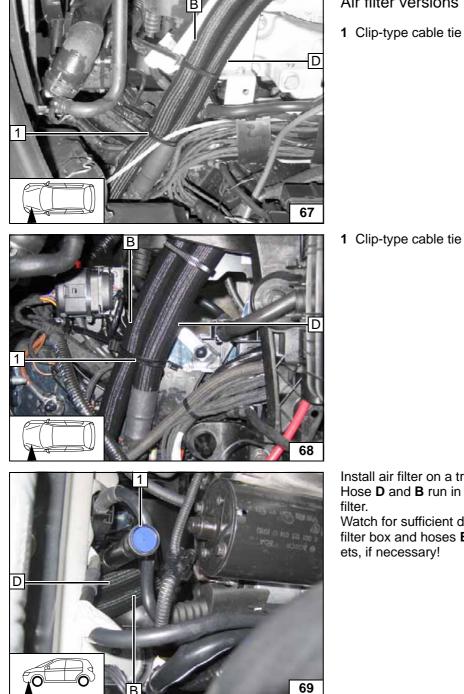
1 Clip-type cable tie [2x]



Align hoses for DSG

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## Air filter versions

1 Clip-type cable tie



Aligning hoses for air filter version 1



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

Watch for sufficient distance between the air filter box and hoses B / D, bend hose brackets, if necessary!

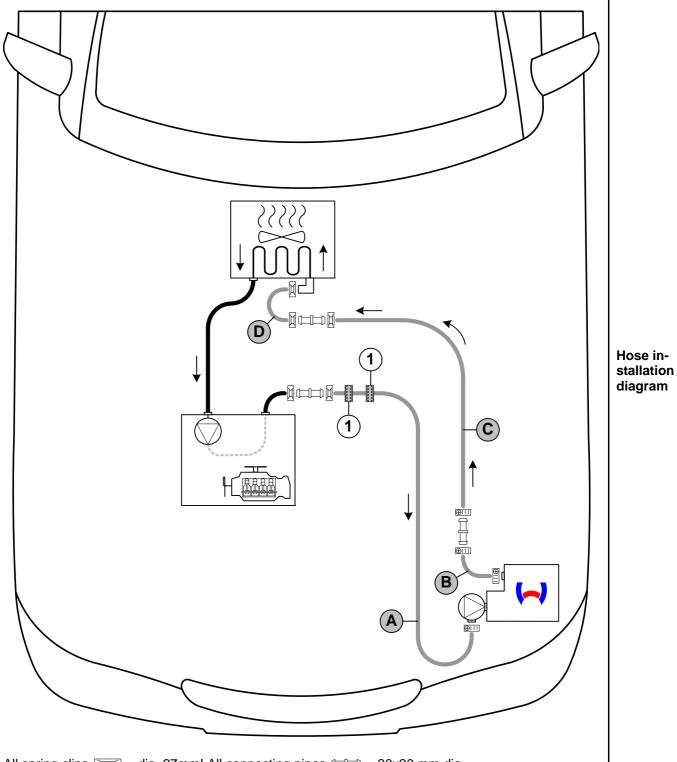


Aligning hoses for air filter version 2

## 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:



All spring clips  $\square = \text{dia. 27mm!}$  All connecting pipes  $\square \square = 20x20 \text{ mm}$  dia. All hose clamps  $\bigcirc \square \square = 20-27 \text{ mm}$  dia. **1** = Black (sw) rubber isolator  $\blacksquare \square \square [2x]!$ 

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

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 cliptype cable ties 3, 6 point backward. Hole 1 remains open.

2 Original vehicle hole, M6x20 bolt, flanged nut

4 Bracket

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1 Clip-type cable tie [3x]

Hose installation

Install cliptype cable

Installing

coolant

hoses

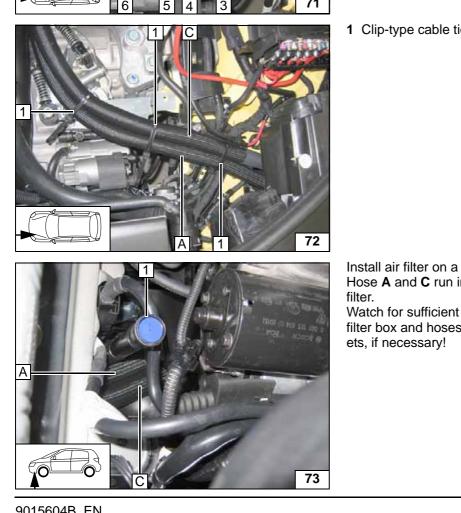
bracket for

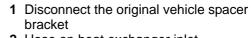
tie

Install air filter on a trial basis. Hose A and C run in front of line 1 of the air

Watch for sufficient distance between the air filter box and hoses A / C, bend hose brackets, if necessary!

Hose installation





- 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  ${\bf 2}$  kink-and friction-free.

1 Hose on heat exchanger outlet

Routing hose on heat exchanger inlet

Installing double clip

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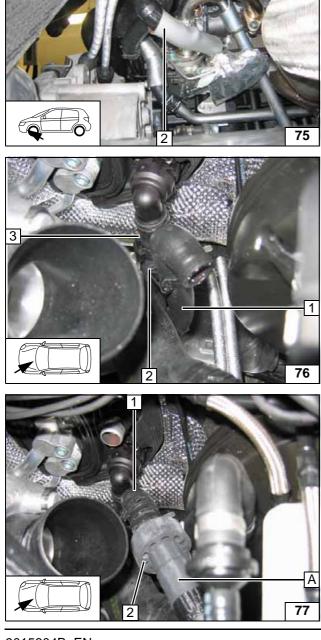
- 1 Hose of engine outlet, turned toward the front
- 2 Double clip

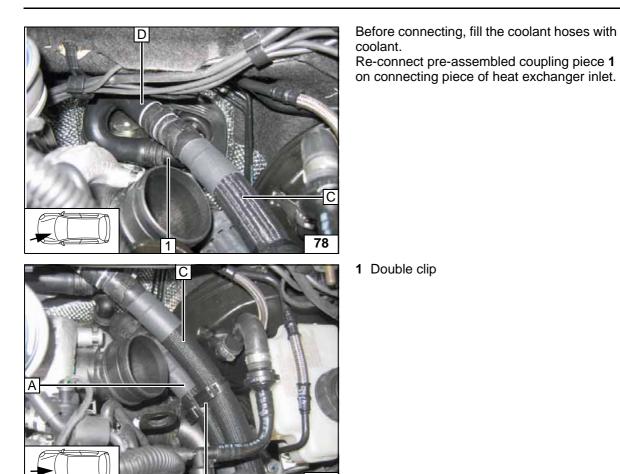
74

3 Hose on heat exchanger outlet

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

Connecting engine outlet





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Connection of heat exchanger inlet

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.

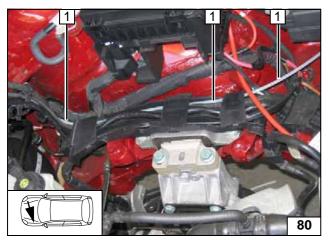
#### WARNING!

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

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1 Fuel line



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

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

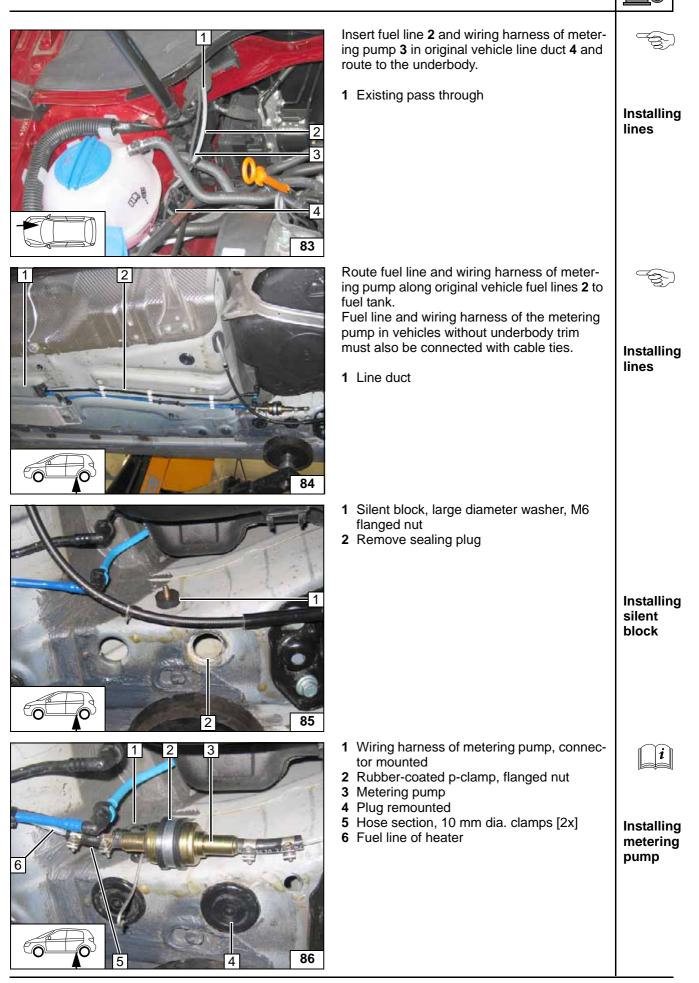


line

Routing into coolant reservoir

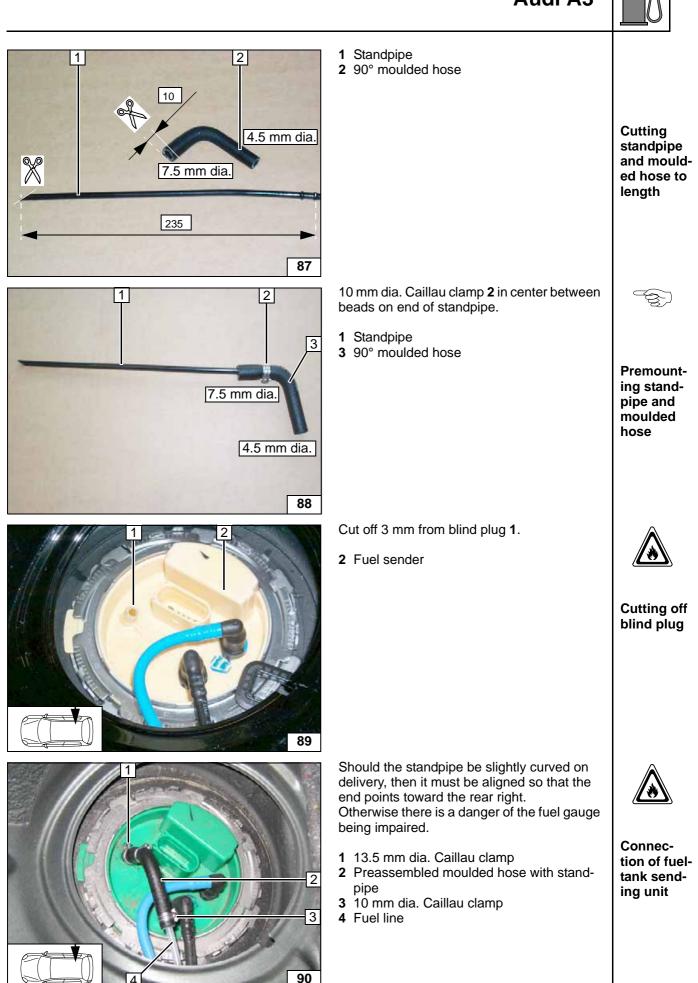


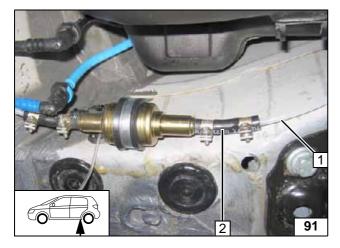
**Routing in** coolant reservoir



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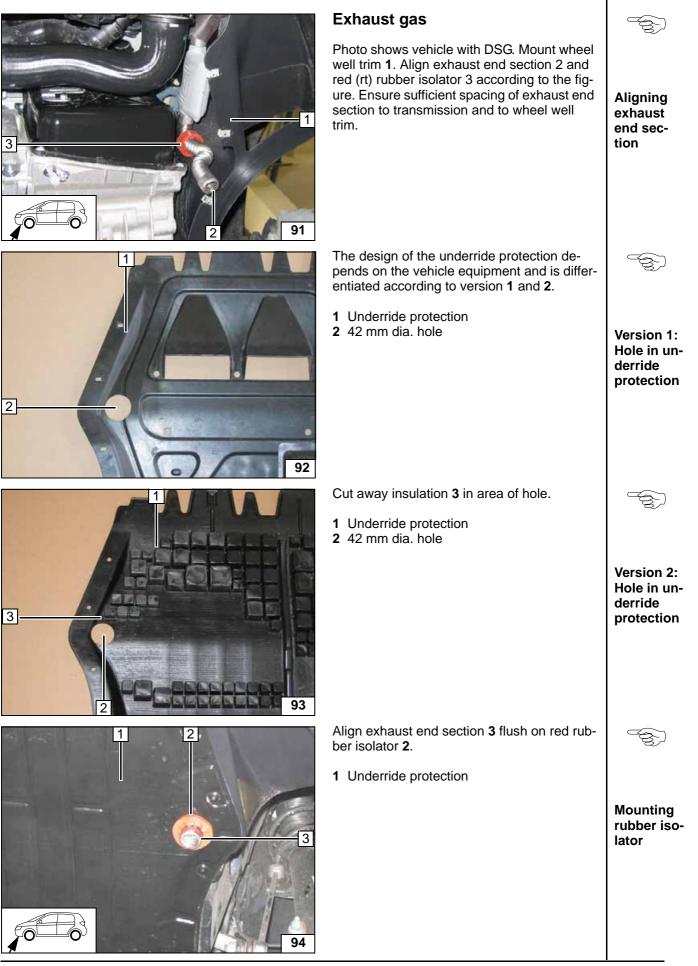




Ensure sufficient distance to neighboring components, adjust, if necessary.

- 1 Fuel line from fuel standpipe2 Hose section, 10 mm dia. hose clamp [2x]

Connecting metering pump



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## **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.



## **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 with heat and in the position Summer S.

Before parking the vehicle, make the following settings:



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

1 Set temperature on both sides to "HI".

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