Water Heater Unit

Thermo Top E Additional Heater

Thermo Top C Additional Heater

Thermo Top P Additional Heater

Installation Instructions

Audi A3

1.4 TFSI from Model Year 2006 Left-hand drive vehicle



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.

e1

00 0003 e1

00 0002 e1

00 0104

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

VW Golf V and Golf Plus

Engine type	Engine model	Output in kW	Displacement in cm ³
CAXC	Gasoline TFSI	92	1390

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

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

Heater Unit/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories with desired heater control	See price list
1	Installation kit for Audi A3 1.4 TFSI	1313621A

Heater unit recommended for the respective vehicle class:

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

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

Foreword

These installation instructions apply to Audi A3 1.4 TFSI vehicles - 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 these installation instructions.

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

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

General Instructions

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties.

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

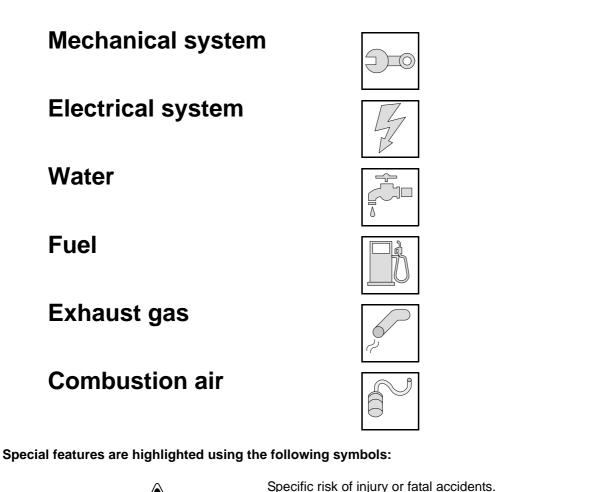
Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

Special Tools

- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- 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.

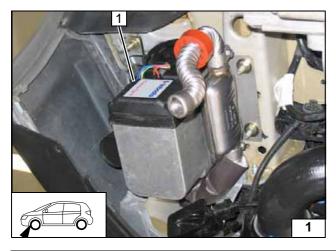
All dimensions are in mm! Tightening torque of hose clamps = 2.0 + 0.5 Nm! Tightening torque of Ejot screws, Ejot studs = 10 Nm!

Preliminary Work

WARNING!

- Open 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.
- Disconnect the battery "earth" or "ground" connection.
- Remove battery.
- Remove the battery carrier.
- Remove the engine cover.
- Remove the left front wheel
- Remove the front section of the left front wheel well trim
- Remove the underride protection
- Remove the right-hand underbody trim
- Remove the rear bench seat
- Open the right-hand fuel sender service lid.
- Remove the footwell trim on the driver's side
- Remove the lower instrument panel trim on the driver's side
- Only with Climatronic: Remove the A/C control panel.

Remove page 25 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater unit installation location

1 Heater unit

Installation location

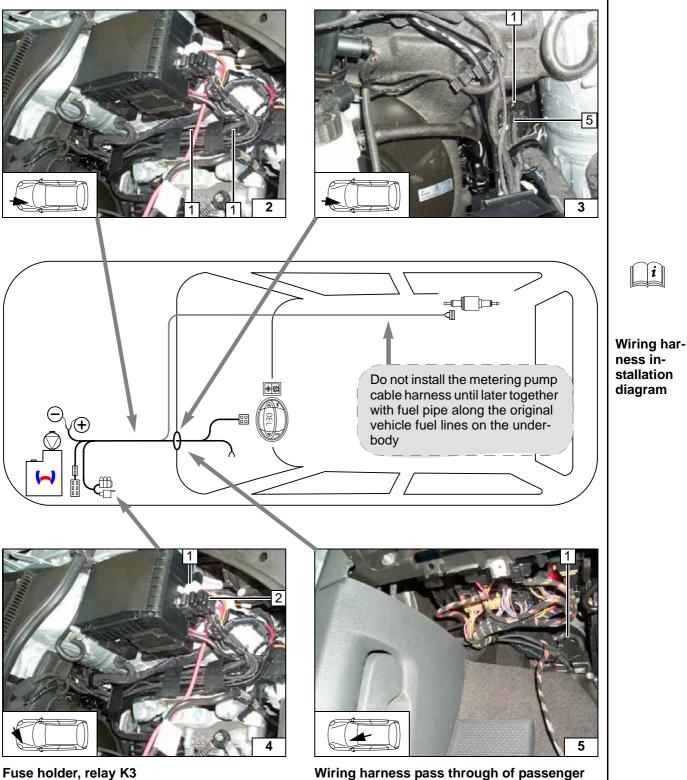
Electrical system

Wiring harness routing

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

Wiring harness pass through in engine compartment

1 Original vehicle wiring harness pass through

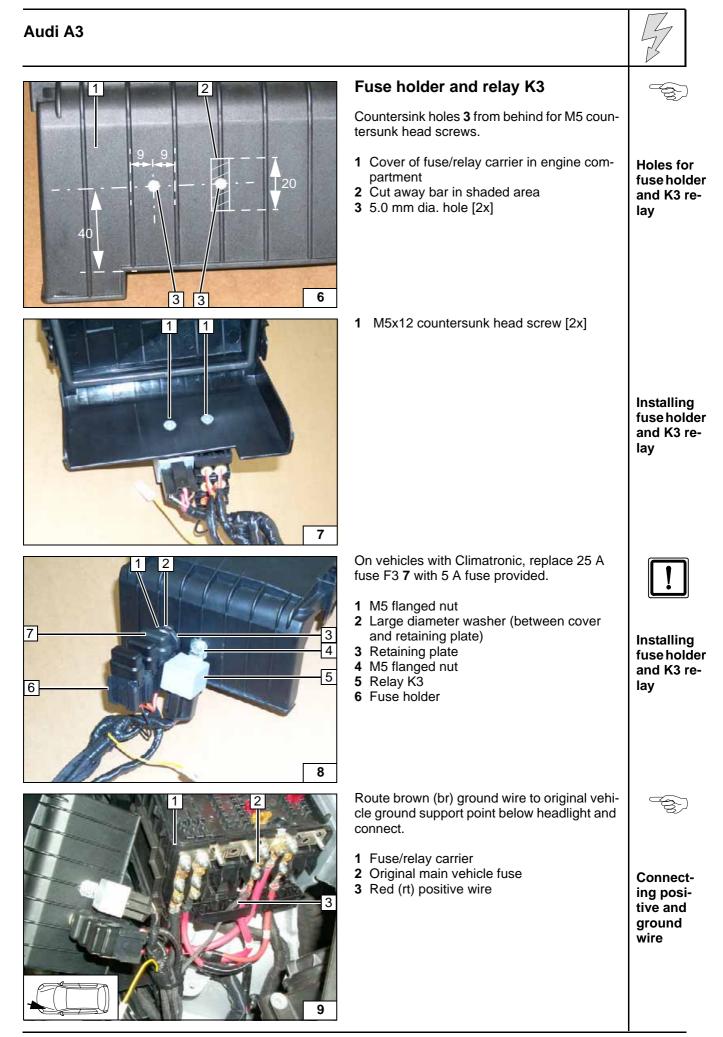


compartment

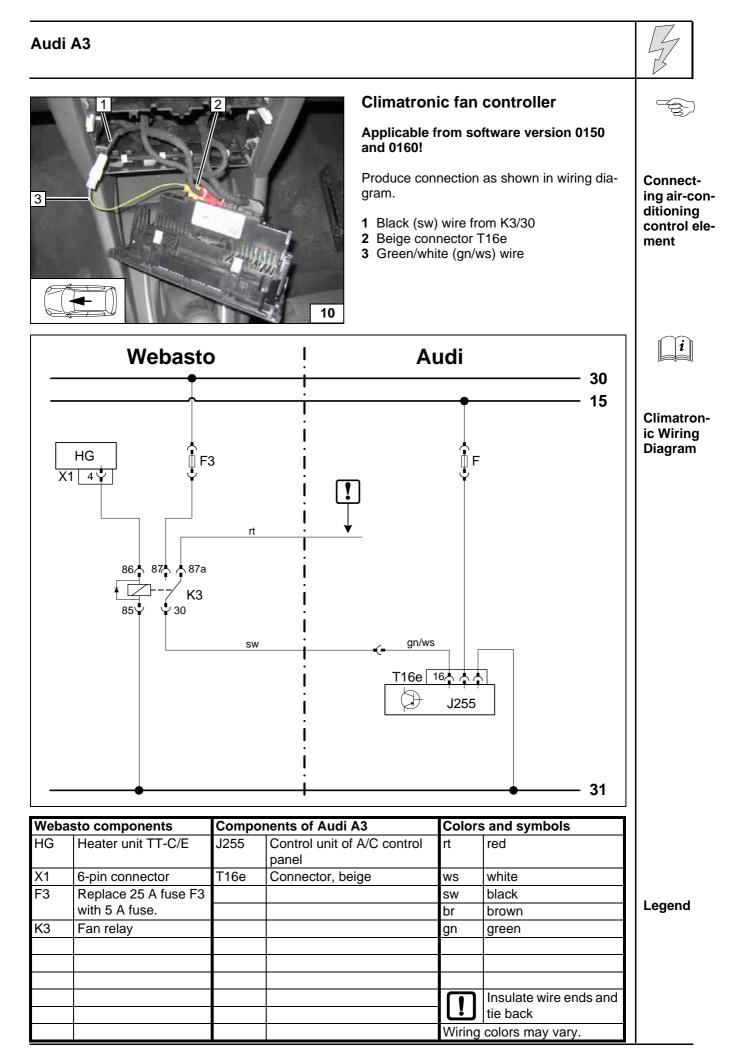
Fuse holder, relay K3

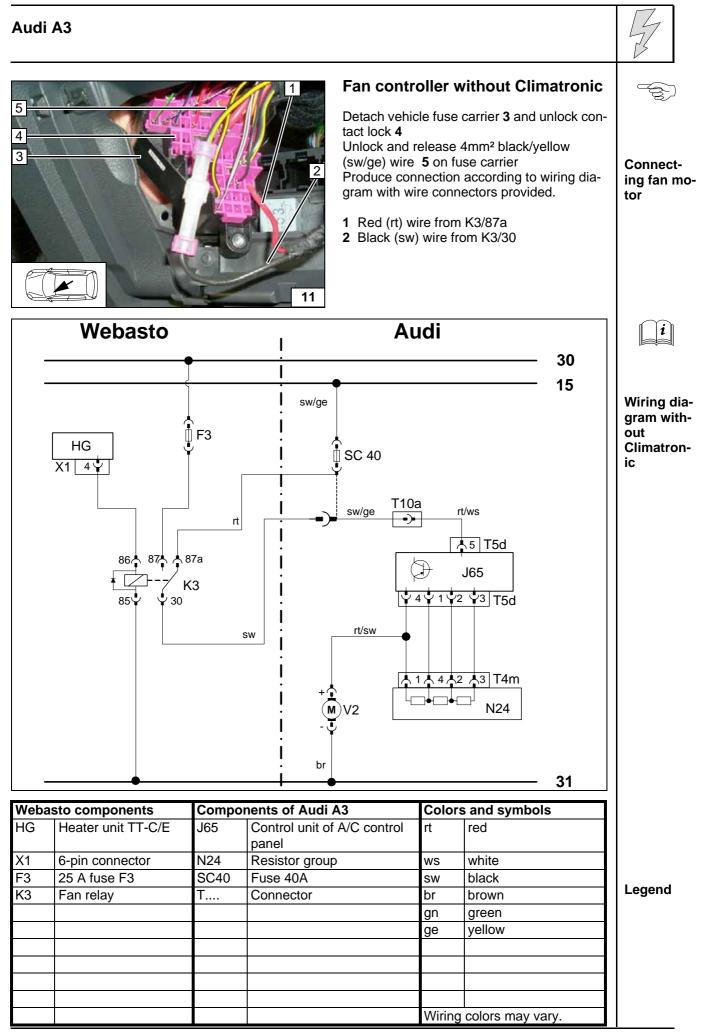
Description of installation for K3 relay 1 and fuse carrier 2 on Page 7

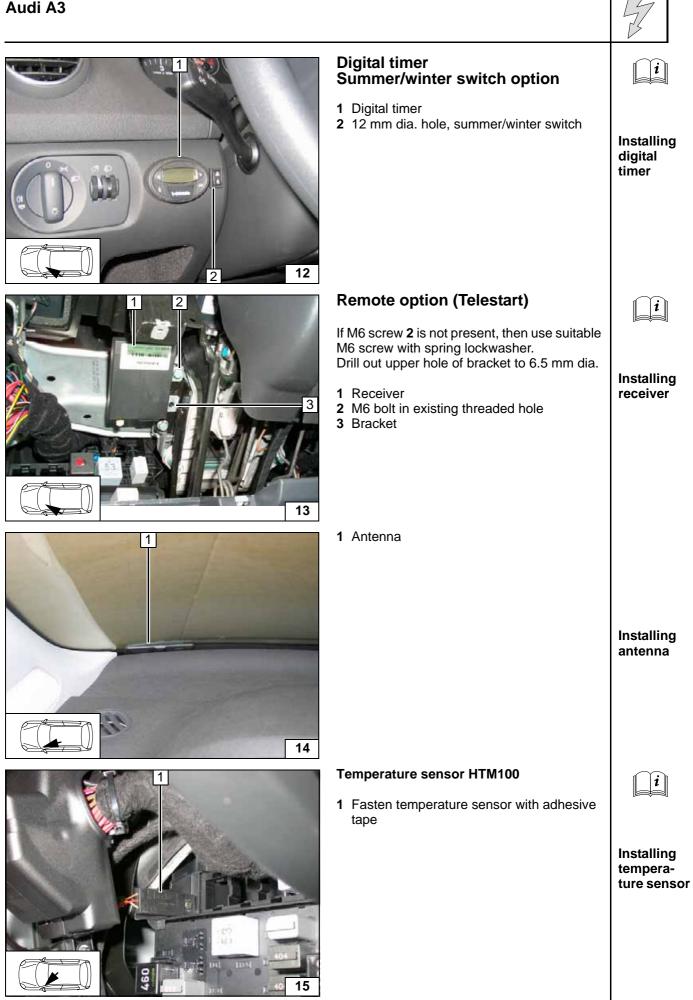
1 Original vehicle wiring harness pass through



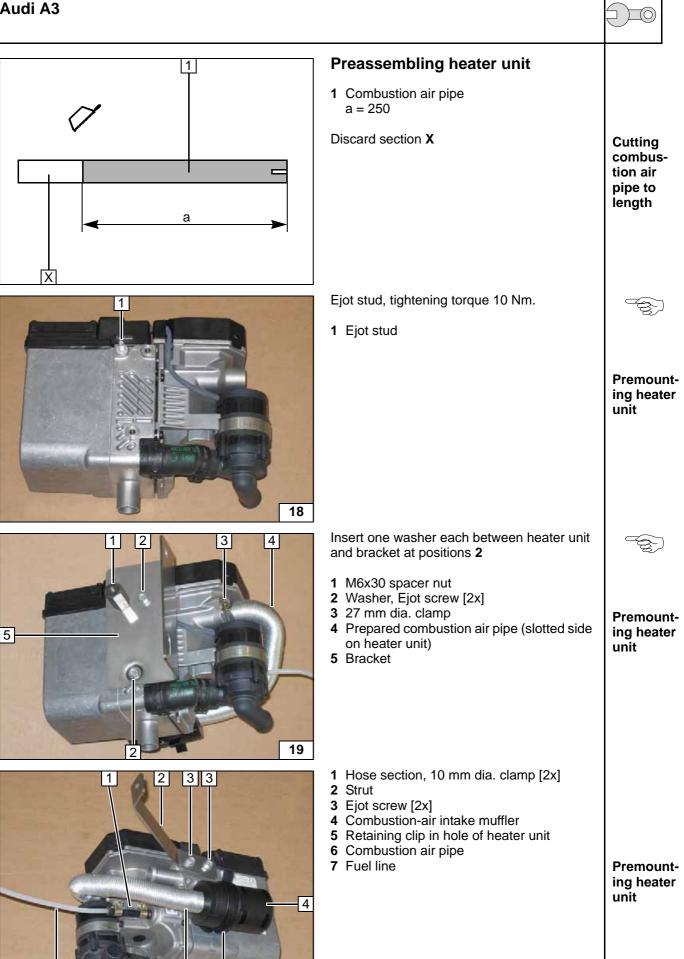
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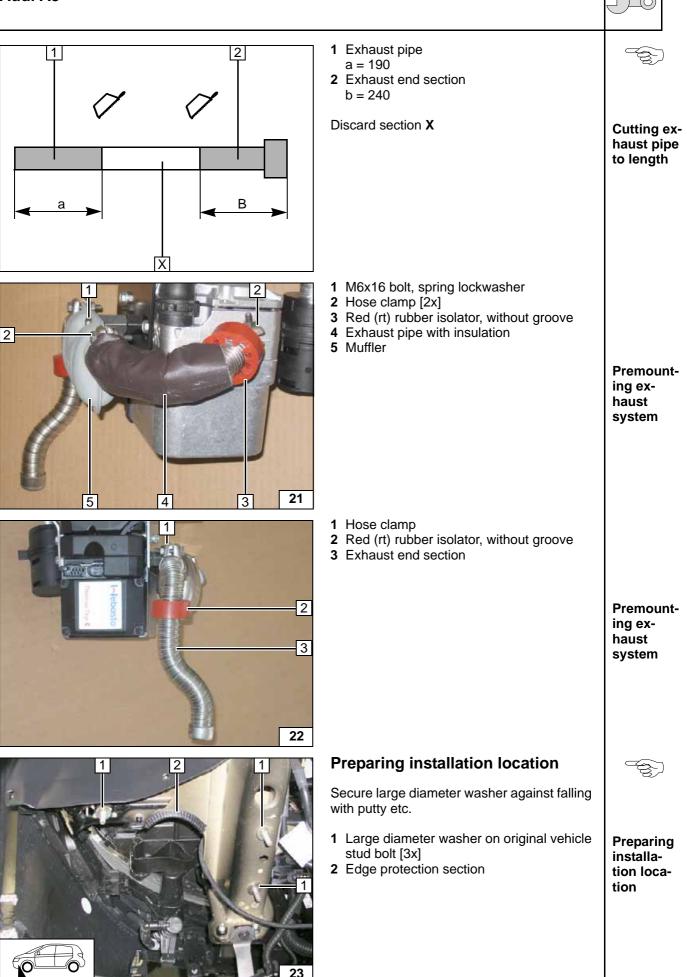


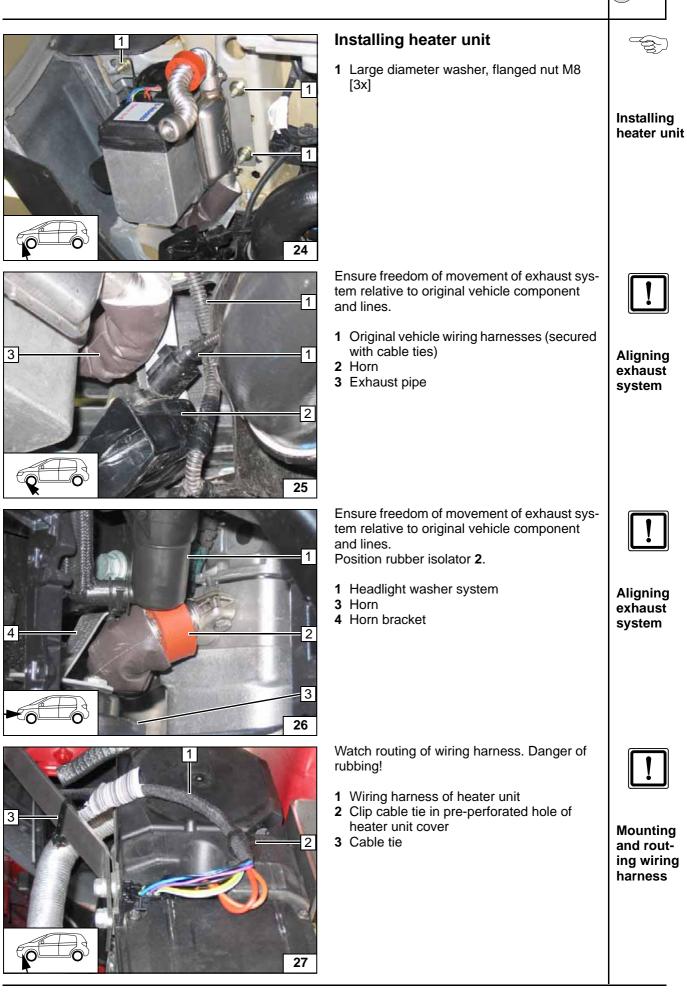


Audi A3 Remote option (Thermo Call) i 1 Fasten receiver with adhesive tape Installing receiver 16 1 Antenna Installing antenna 17 1



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Fuel Connection

CAUTION!

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

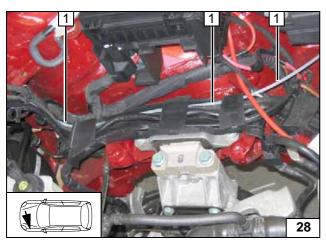
Catch any fuel running off with an appropriate container.

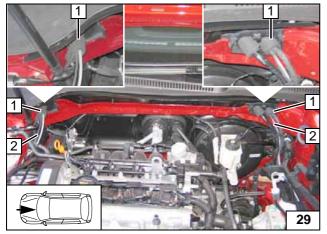
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

WARNING!

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

1 Fuel line





Route Mecanyl line and wiring harness of metering pump **2** in coolant reservoir to right and fasten on original vehicle lines with cable ties. Pay particular attention to freedom of movement of wiper linkage.

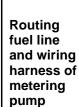
Route Mecanyl line and wiring harness of metering pump to underbody in line duct.

2 Existing pass through [2x]

Route fuel line and wiring harness of metering pump along original vehicle fuel lines **2** to fuel tank.

1 Line duct

30





Routing to firewall



Routing in coolant reservoir

Audi A3 1 Silent block, large diameter washer, M6 flanged nut 2 Remove sealing plug Installing silent block Co 0 31 1 Wiring harness of metering pump, connec-2 3 1 tor mounted 2 Secure rubber-coated p-clamp on silent [i] block with flanged nut 3 Metering pump 4 Plug remounted **5** Hose section, 10 mm dia. clamp [2x] 6 Fuel line 6 Mounting metering pump and connecting pressure side Ô Ó 32 1 Standpipe 2 1 2 Molded hose Cutting standpipe Þ and mold-4.5 mm dia. 7.5 mm dia. ed hose to length 235 33 10 mm dia. Caillau clamp 2 in center between 1 2 3 R beads on end of standpipe. 1 Standpipe 3 Molded hose Premounting stand-7.5 mm dia. pipe and molded hose 4.5 mm dia. 34

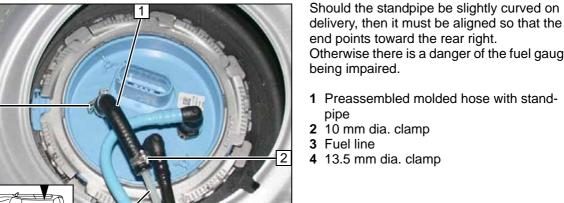
4



1 Tip of blind plug shortened by 3 mm 2 Fuel sender



Cutting off blind plug



2

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 Preassembled molded hose with standpipe
- 2 10 mm dia. clamp
- 3 Fuel line

35

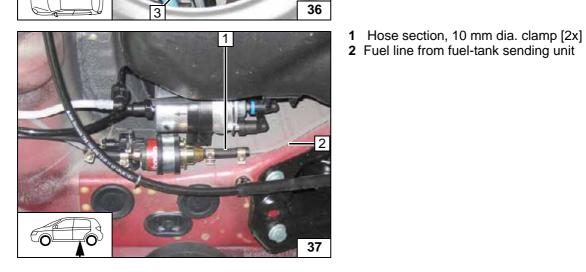
4 13.5 mm dia. clamp



Connection to fueltank sending unit



Connecting intake side of metering pump

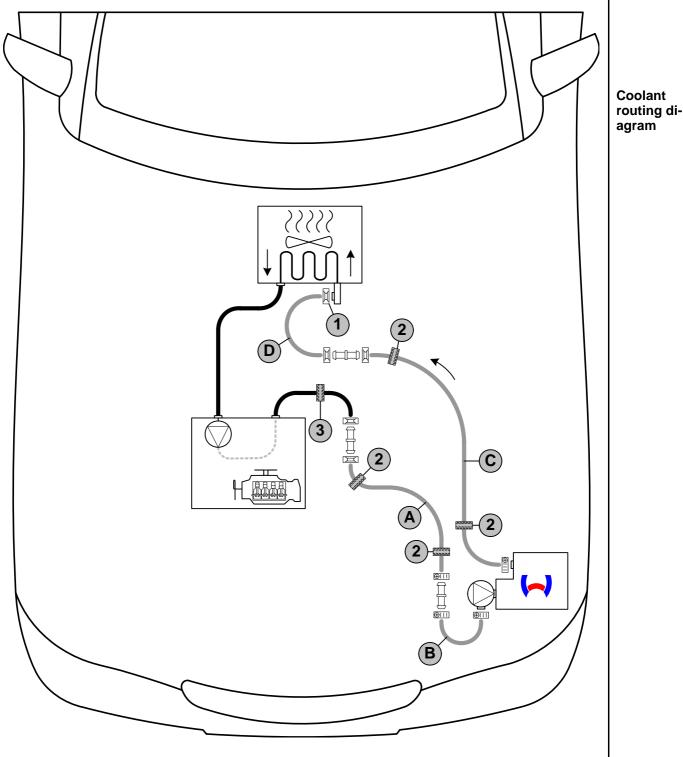




WARNING!

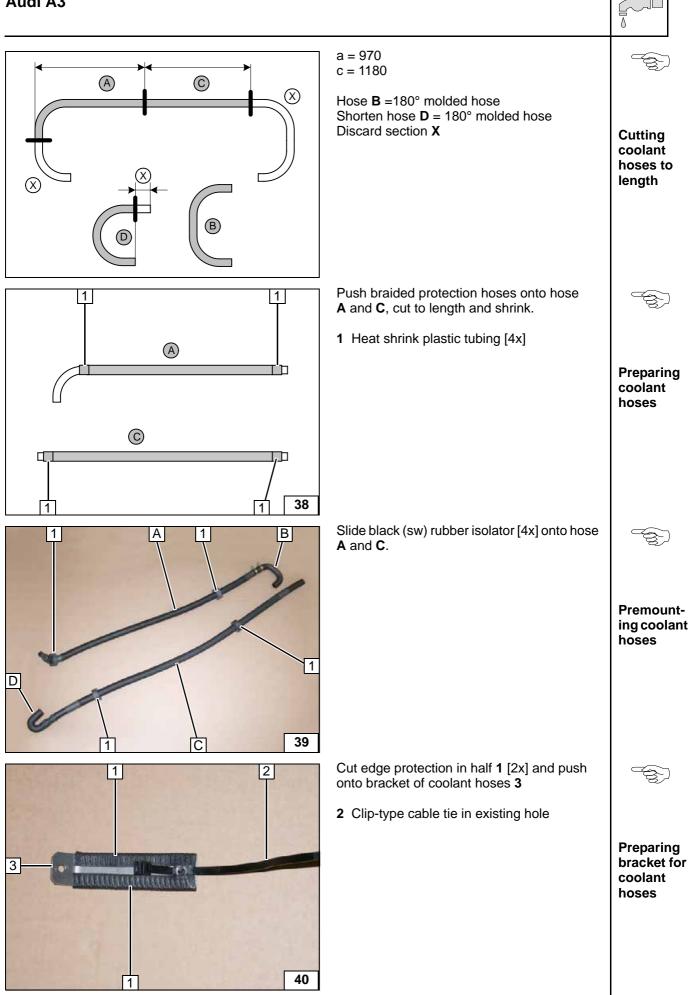
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the coolant hose, the heater unit must be filled with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

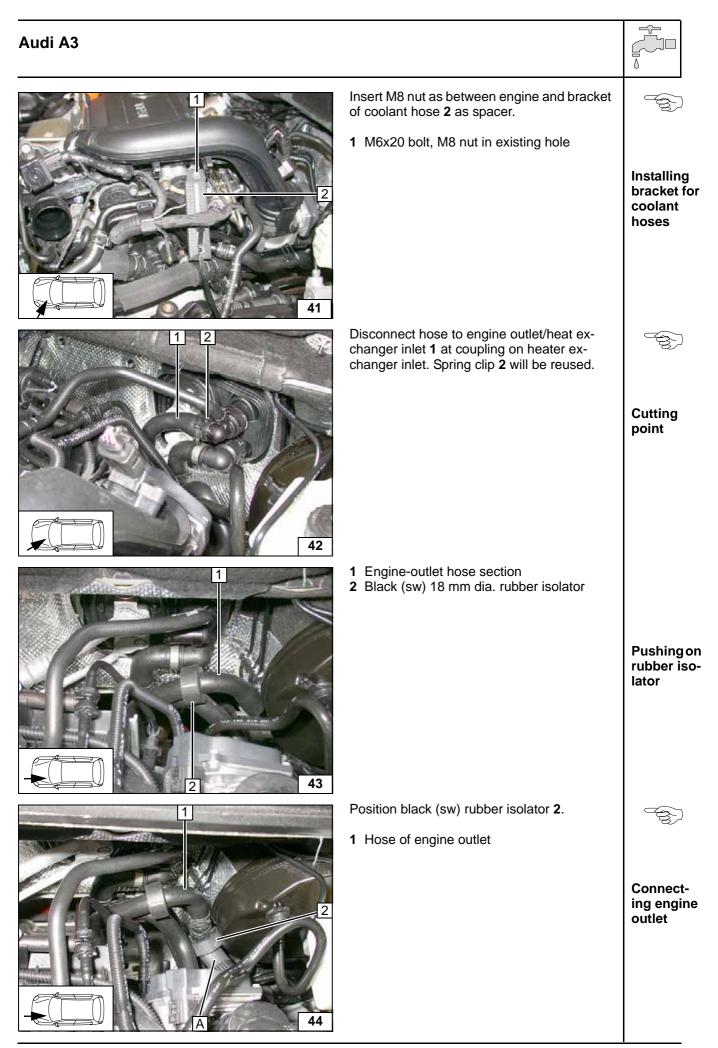
The connection should be "inline" based on the following diagram:



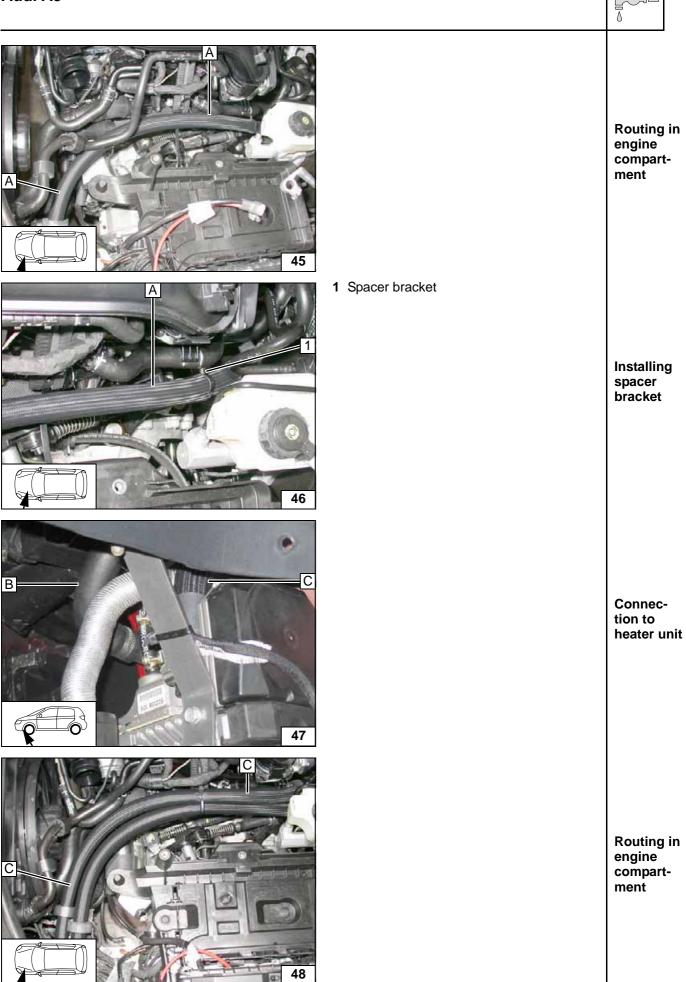
All spring clips without a specific designation $\square = 27 \text{ mm}$ dia. **1** = Original vehicle spring clip \square . All hose clamps $\bigcirc \square = 20.27 \text{ mm}$ dia.! All connecting pipes $\square \square = 20x20$ dia.. **2** = Black (sw) 20 mm dia. rubber isolator $\blacksquare = [4x]$. **3** = Black (sw) 18 mm dia. rubber isolator $\blacksquare = 20x20$ dia.

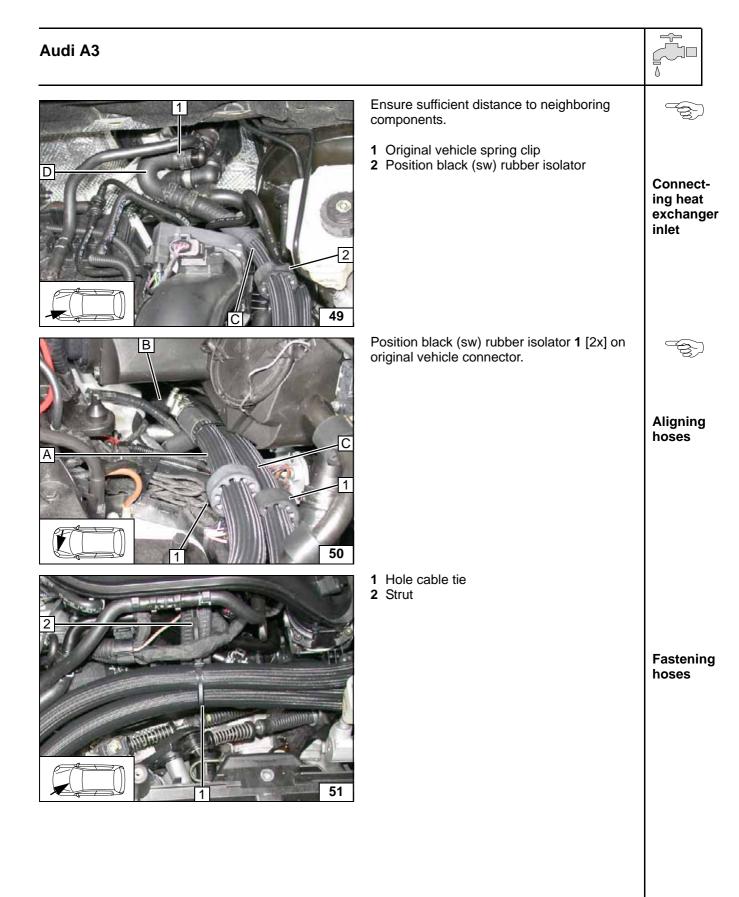




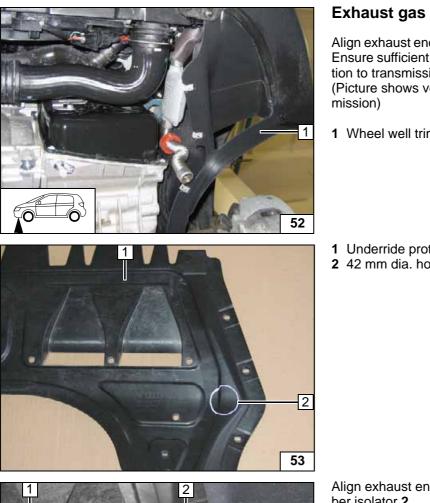


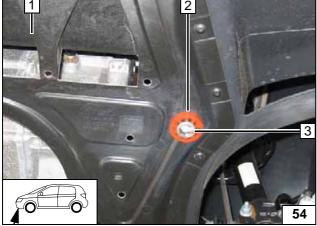
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1	Exhaust gas	
	Align exhaust end section and rubber isolator. Ensure sufficient spacing of exhaust end sec- tion to transmission and to wheel well trim. (Picture shows vehicle with direct shift trans- mission)	Installing wheel well
= <u>1</u> 52	1 Wheel well trim	trim
	 Underride protection 42 mm dia. hole 	
-2		Hole in un- derride protection
53		
	Align exhaust end section 3 flush on red rubber isolator 2 .	
	1 Underride protection	
3		Mounting rubber iso- lator
1000		

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 heater unit 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 the digital timer.
- Make setting on A/C control panel according to the "Operating Instructions for End Customer".
- 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.

Adjust the sensitivity of the 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.



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Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.

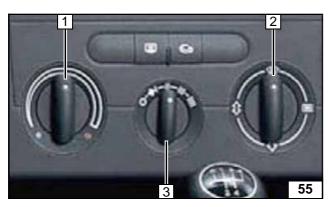
Note:

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.

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

Before parking the vehicle, make the following settings:



- 1 Set temperature to "max."
- 2 Air outlet to windshield
- 3 Set fan to level "1", or possibly "2"

For vehicle without Climatronic

i



1 Set temperature on both sides to "HI".

For vehicle with Climatronic