## Water Heater Unit



Thermo Top E Additional HeaterThermo Top C Additional HeaterThermo Top P Additional Heater

### e1 00 0003 e1 00 0002 e1 00 0104

# Installation Instructions

# **Opel Zafira B**

Gasoline and Diesel from Model Year 2005 For left-hand drive vehicles only



WARNING!

Hazard warning:

Incorrect installation or repair of Webasto heating systems may cause a fire or result in the emission of carbon monoxide, which can be fatal. Serious or fatal injuries can be caused as a result.

Specialist company training, technical documentation, specialized tools and equipment are required to install and repair Webasto heating and cooling systems.

NEVER attempt to install or repair Webasto heating or cooling systems if you have not successfully completed the company training and thereby acquired the required technical skills, or if you do not have access to the required technical documentation, tools and equipment needed to carry out correct installation and repairs.

ALWAYS follow all Webasto installation and repair instructions and observe all warnings.

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

### **Opel Zafira B Table of Contents** 2 Coolant Heater Unit/Installation Kit 3 1.6 liter gasoline 3 1.8 liter gasoline **General Instructions** 3 2.0 liter gasoline 4 2.2 liter gasoline 1.9 liter diesel Explanatory Notes on Document 5 Preliminary Work 5 1.7 liter diesel Heater unit installation location 5 Cut hoses to length **Preparing Electrical System** 6 Braided protection Electrical Diagram 7 Routing Fan controller for manual air conditioning 9 Fuel 10 With passenger compartment monitoring Exhaust Gas

Final Work

Template for Fuel Sender

Template for Fuel Standpipe

**Operating Instructions for Customer** 

20

20

21

22

23

24

25

26

27

27

34

38

40

41

42

43

### Validity

Validitv

Foreword

**Special Tools** 

Automatic Air-Conditioning Fan Controller

With passenger compartment monitoring

Remote option (Telestart)

Preparing Heater Unit

Installing Heater Unit

Combustion Air

Remote option (Thermo Call)

Preparing Installation Location

Manufacturer	Model	Туре	EG-BE No./ABE
Opel	Zafira B	A-H/Monocab	e1 * 2001/116 * 0325 *

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Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
Z16XEP	Gasoline	77	1598
Z18XER	Gasoline	103	1796
Z20LEH	Gasoline (OPC)	177	1998
Z20LER	Gasoline	147	1998
Z22YH	Gasoline	110	2198
Z17DTJ	Diesel	81	1686
A17DTJ	Diesel	81	1686
Z17DTR	Diesel	92	1686
A17DTR	Diesel	92	1686
Z19DTL	Diesel	74	1910
Z19DT	Diesel	88	1910
Z19DTH	Diesel	110	1910

Vehicle and engine types and equipment variants 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	Delivery scope of Thermo Top C Gasoline	83343C
	Opel Catalog No.:	1734010
1	Delivery scope of Thermo Top C Diesel	83344C
	Opel Catalog No.:	1734011
1	Installation kit for Opel Zafira B Gasoline and Diesel	1303047F
	Opel Catalog No.:	1734115

### Additionally required for 1.9 liter diesel vehicles

Quantity	Description	Opel Part No.:
1	Bracket of vacuum valve	9268928
	Opel Catalog No.:	1734144

### Optional heater control either:

Quantity	Description	Order No.:
1	Heater control	See Opel price list

### Foreword

The installation instructions apply to the Opel Zafira B vehicles with a Gasoline and Diesel engine - For the validity, see page 2 - from model year 2005 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to these installation instructions.

However, where this is the case the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C* should be observed.

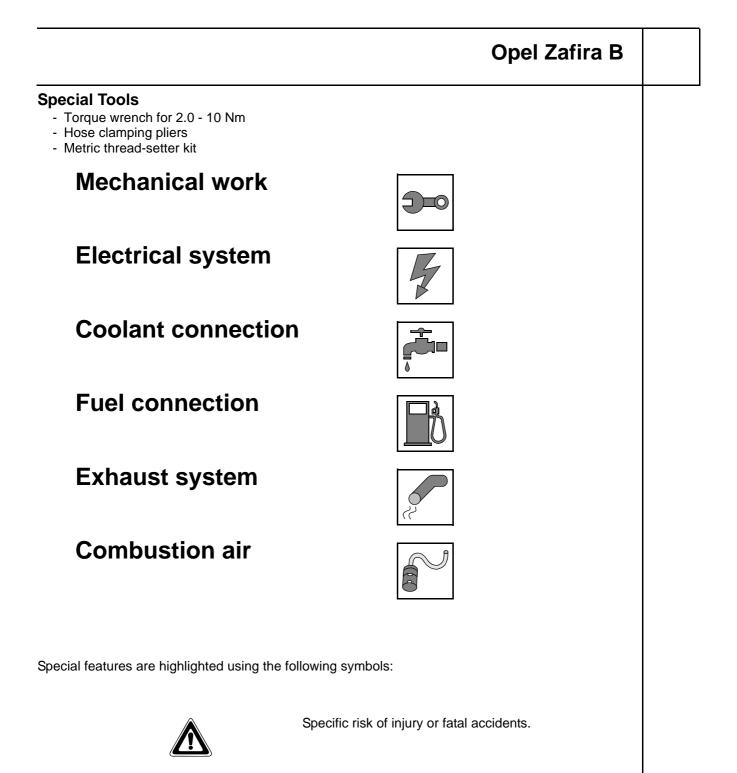
The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

### **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).



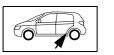
Specific risk of damage to components.

Specific risk of fire or explosion.

Reference to general installation instructions of Webasto components or to the manufacturer's vehiclespecific documents.

Reference to a special technical feature.

The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.





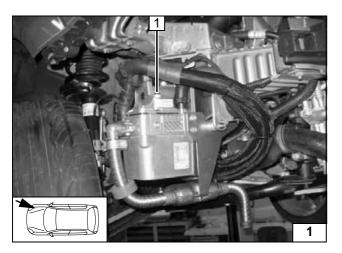
### **Explanatory Notes on Document**

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.

### **Preliminary Work**

### WARNING!

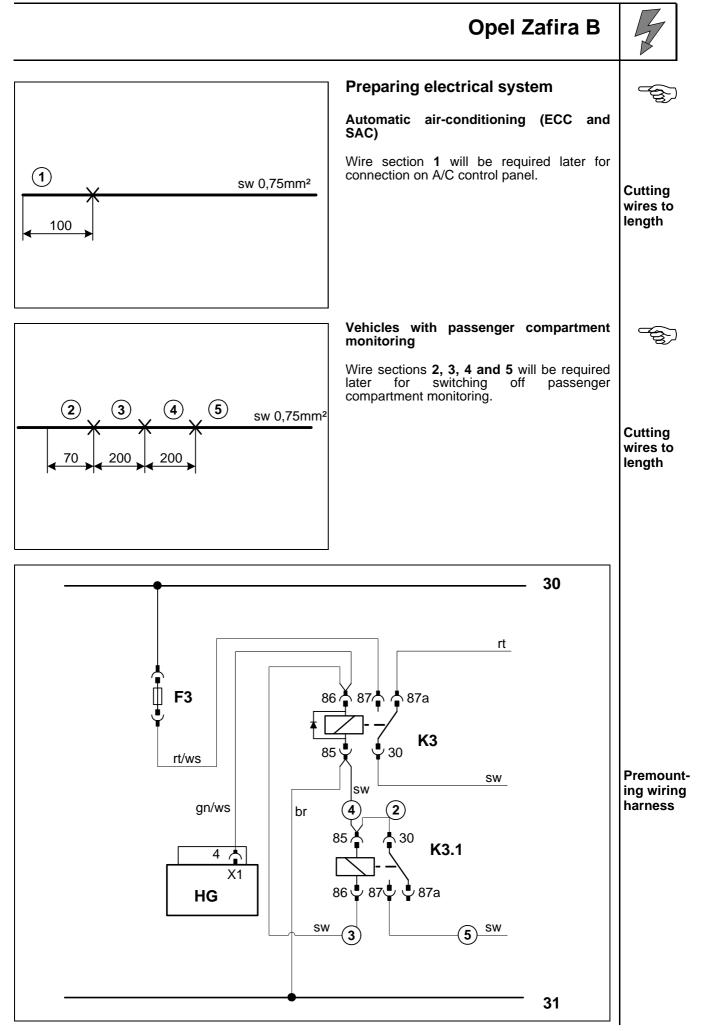
- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Completelz remove the battery (only on 1.9 liter diesel).
- Remove the air filter together with the intake hose.
- Remove the right/hand windshield wiper.
- Remove the coolant reservoir cap.
- Remove the fuel filter.
- Open fuel tank cap, ventilate tank.
- Close the tank cap again.
- Remove fuel tank according to manufacturer's specifications.
- Remove the bumper.
- Remove the front section of the wheel well trim on the right.
- Remove the underride protection (depending on vehicle equipment).
- Remove the horns.
- Remove the vacuum valve (only on 1.9 liter diesel).
- Remove the lower instrument panel trim on the driver's side.
- Remove the glove compartment.
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Remove the glove compartment.
- Remove the A/C control panel (only with automatic air-conditioning).
- Remove the A-pillar trim in the footwell on the front passenger side.
- Remove the left-hand door sill cover completely (only on vehicles with alarm system).
- Open the cable duct under the door sill cover (only with alarm system).

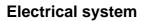


### Heater unit installation location

1 Heater unit

Installation location



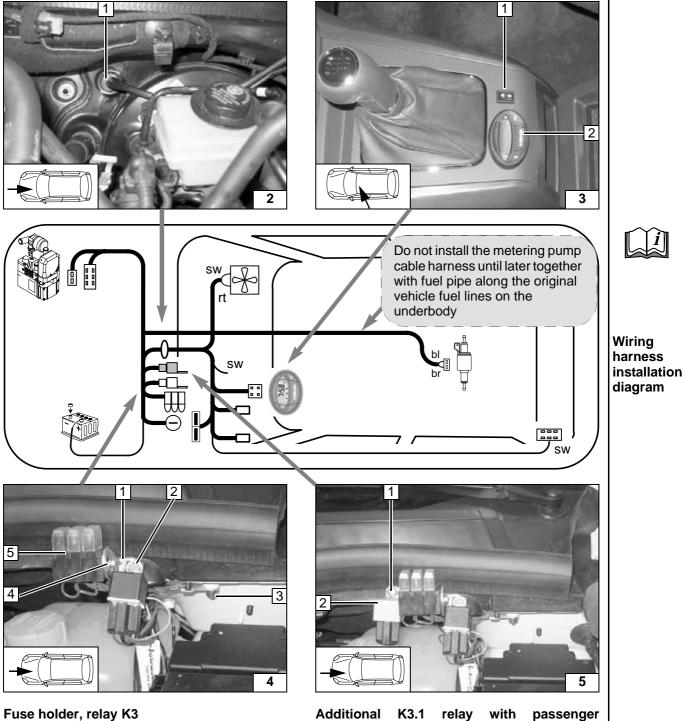


### Wiring harness pass through

1 Protective rubber plug

### Digital timer, summer/winter switch option

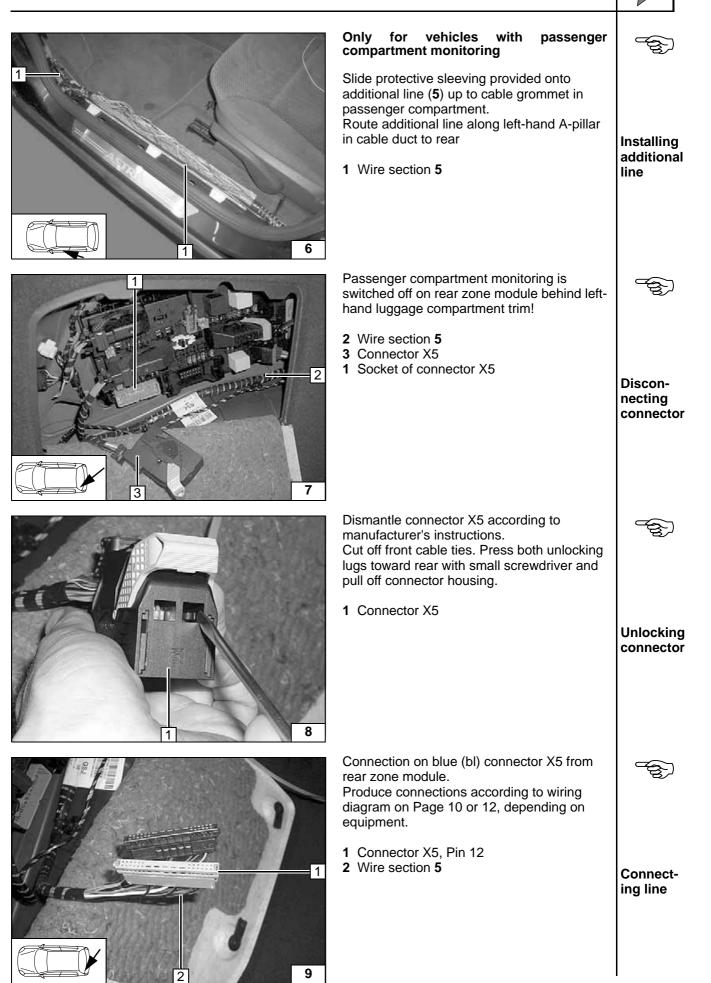
- 1 Summer/winter switch, drilled hole 12 mm dia.
- 2 Digital timer, drilling template

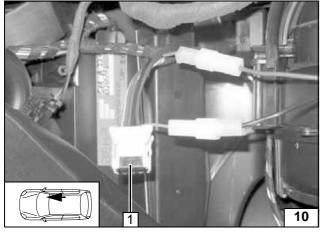


- 2 5.5 mm dia. hole 1 M5x12 bolt, large diameter washer [2x], K3 relay, angle bracket, M5 flanged nut
- 3 Ground support point, M6 flanged nut on existing stud bolt
- 4 Fuse holder retaining plate, M4x10 bolt, washer, M4 nut
- 5 Fuse holder

Additional K3.1 relay with passenger compartment monitoring

- 2 K3.1 relay
- 1 4 mm dia. hole, 5.5x13 self-tapping screw





### Fan controller for manual air conditioning

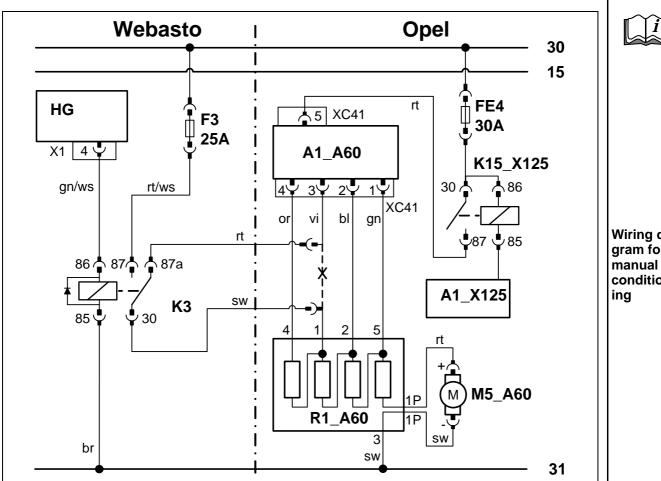
Integration on 6-pin connector ZF 5-12 from fan motor.

Produce connections as shown in wiring diagram with blade connectors provided.

1 6-pin connector from resistor group

### WARNING!

Wiring colors may vary. Fan speed 2 must be controlled!



Weba	asto components	Opel of	components	Colo	ors and symbols	
HG	Heater unit TT-C/E	M5	Fan motor	rt	red	
X1	6-pin heater unit connector	K15	Fan relay	WS	white	
F3	Fuse	R1	Fan resistor	SW	black	
K3	Fan relay	A1	Air-conditioning control panel	br	brown	Lonord
		FE	Fuse	gn	green	Legend
				bl	blue	
				ge	yellow	
				or	orange	
				vi	violet	
				Х	Cutting point	
				Wirir	ng colors may vary.	

Wiring diagram for manual air condition-

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**Connect-**

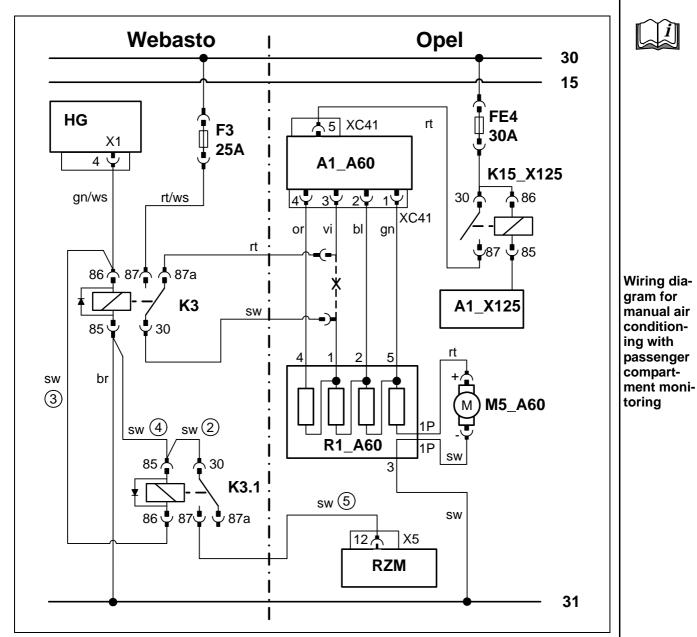
tor

ing fan mo-

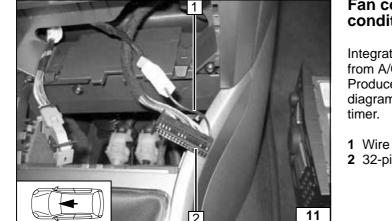
### Only for manual air conditioning with passenger compartment monitoring

귲 **Connect**ing fan motor

Produce connection as shown in wiring diagram with blade connectors provided.



Weba	sto components	Opel o	components	Colo	rs and symbols	
HG	Heater unit TT-C/E	M5	Fan motor	rt	red	
X1	6-pin heater unit connector	K15	Fan relay	ws	white	
F3	Fuse	R1	Fan resistor	SW	black	
K3	Fan relay	A1	Air-conditioning control panel	br	brown	Legend
K3.1	Additional relay	FE	Fuse	gn	green	
		RZM	Rear Zone module	bl	blue	
				or	orange	
				vi	violet	
				Х	Cutting point	
				Wirin	g colors may vary.	



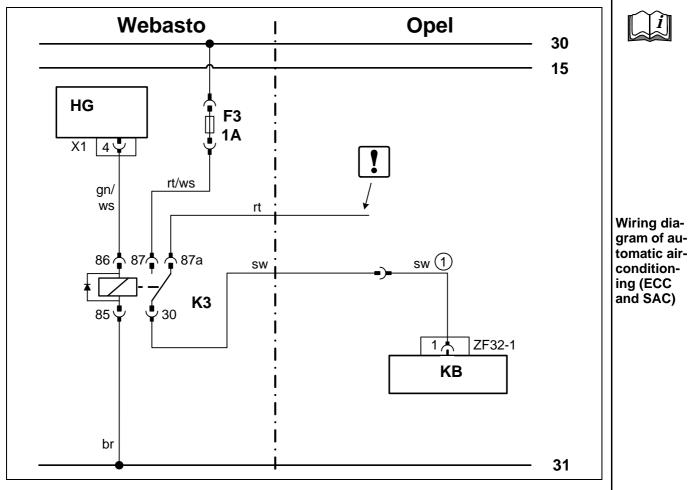
### Fan controller of automatic airconditioning (ECC and SAC)

Integration on 32-pin connector ZF 32 - 1 from A/C control panel. Produce connections as shown in wiring diagram with blade connectors and microtimer

- 1 Wire section 1
- 2 32-pin connector

Connecting air-conditioning control element

B

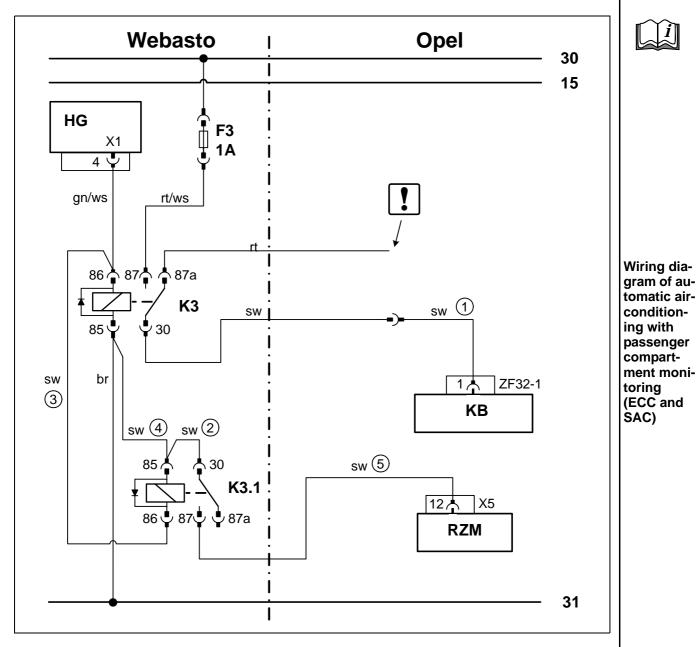


Weba	Vebasto components		Vebasto components Opel components		Color	Colors and symbols	
HG	Heater unit TT-C/E	KB	Air-conditioning control panel	rt	red		
X1	6-pin heater unit connector			WS	white		
F3	Fuse			SW	black	Lonond	
K3	Fan relay			br	brown	Legend	
				gn	green		
				!	Insulate wire ends and tie back		
				Wiring	colors may vary.		

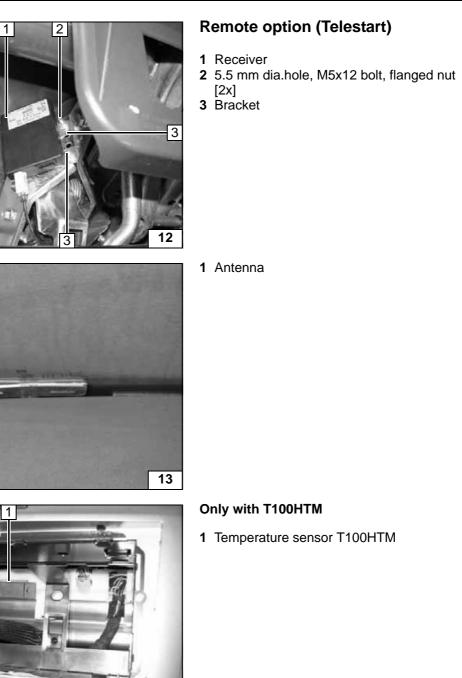
# Onlz for automatic air-conditioning with passenger compartment monitoring (ECC and SAC)

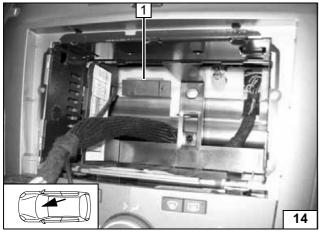
حے Connecting fan motor

Produce connection as shown in wiring diagram with blade connectors provided.



Weba	sto components	Opel o	components	Color	rs and symbols	
HG	Heater unit TT-C/E	KB	Air-conditioning control panel	rt	red	
X1	6-pin heater unit connector	RZM	Rear Zone module	WS	white	
F3	Fuse			SW	black	Legend
K3	Fan relay			br	brown	
K3.1	Additional relay			gn	green	
				!	Insulate wire ends and tie back	
				Wiring	g colors may vary.	





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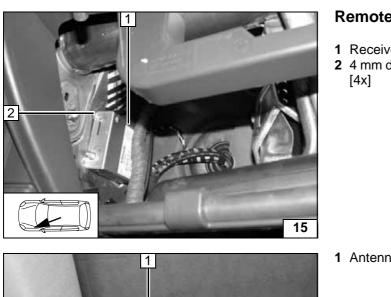


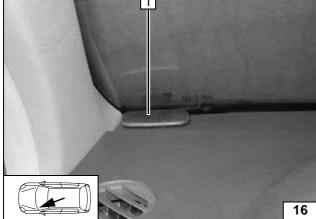
Installing antenna

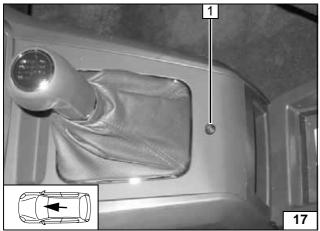
Installing receiver

Installing temperature sensor









2	Remote option (Thermo Call)	$\widehat{\mathbf{n}}$
5	<ol> <li>Receiver</li> <li>4 mm dia. hole, 5.5x9.5 self-tapping screw [4x]</li> </ol>	Installing receiver
3	1 Antenna	Installing antenna
A MARSHAR	1 Pushbutton	Installing push button

Cutting combustion air pipe to length

Ensure proper installation position of air intake muffler, see "Installation Instructions".

1 Remove retaining clip and fasten wiring harness above wheel well with cable tie

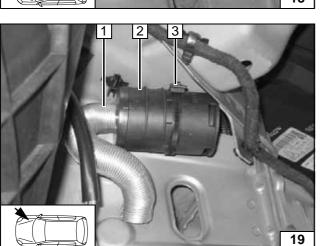
> Preassembling intake muffler

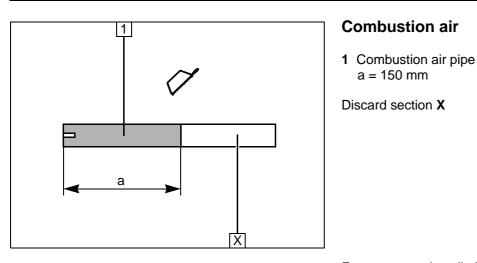
- 1 Combustion-air intake hose shortened
- 2 Intake muffler

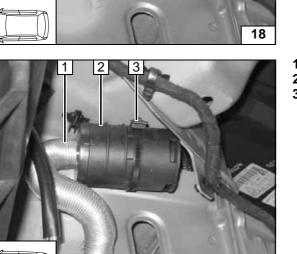
a = 150 mm

3 Included clip with cable tie in existing hole

Preassembling intake muffler

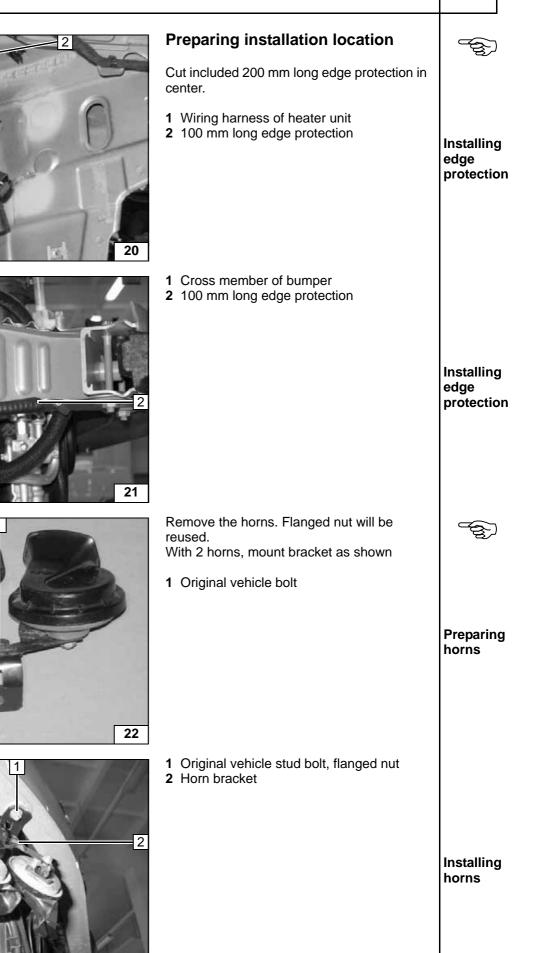


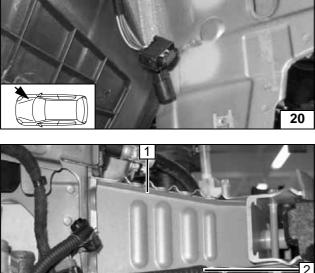




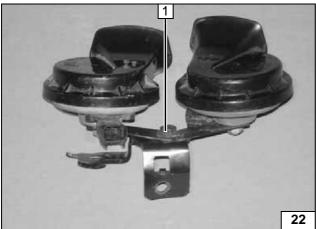


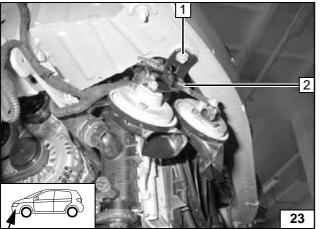
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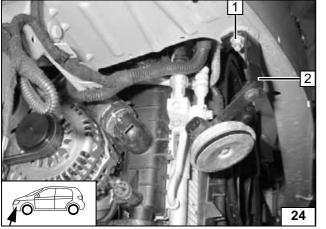


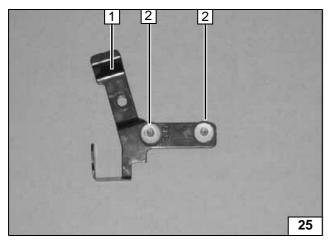


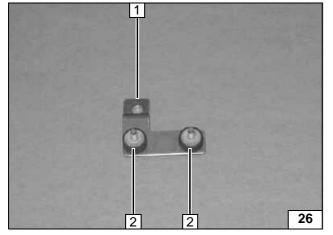
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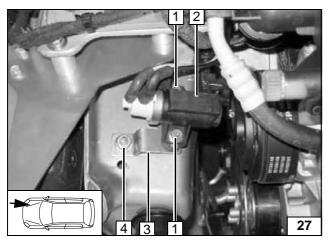




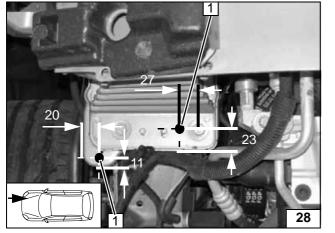


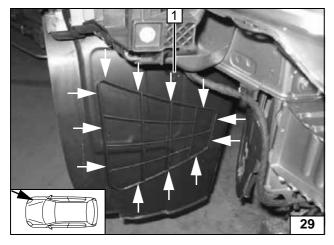


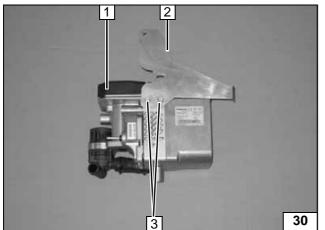




With 1 horn, mount bracket as shown. Ensure freedom of movement to adjacent components.	-
<ol> <li>Original vehicle stud bolt, flanged nut</li> <li>Horn bracket</li> </ol>	
	Installing horns
Only for 1.9 liter diesel vehicles	- fig-
<ul><li>2 Screw out silent block</li><li>1 Discard original vehicle bracket of vacuum valve</li></ul>	
	Removing bracket of vacuum valve
<ol> <li>Bracket of vacuum valve (Opel Number: 9268928)</li> <li>Screw in silent block [2x]</li> </ol>	
	Complete bracket of vacuum valve
<ul> <li>3 Bracket of vacuum valve</li> <li>4 Original vehicle stud bolt, flanged nut of horn bracket</li> <li>2 Vacuum valve</li> <li>1 Original vehicle flanged nuts</li> </ul>	
_ <b>C</b>	Installing vacuum valve







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### Dimensions in mm!

1 7 mm dia. hole [2x]

Preparing installation location

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Completely remove embossed grid on wheel well trim.

1 Wheel well trim

Mounting rubber isolator

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## Preparing heater unit

Tighten EJOT screws to 10 Nm!

- 1 Heater unit
- 2 Bracket
- 3 Ejot screw [2x]

Preparing heater unit

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### Installing heater unit

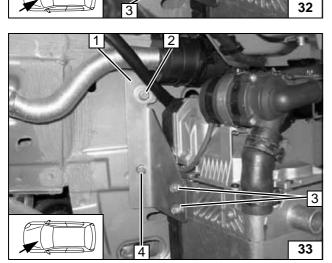
Install 30 mm long spacer sleeve between bracket and body

- 1 Premounted bracket
- 2 M6x50 bolt, large diameter washer, outside 22 mm, 30 mm long spacer sleeve, large diameter washer, outside 17.6 mm, M6 flanged nut
- **3** M6x50 bolt, 30 mm long spacer sleeve, M6 flanged nut

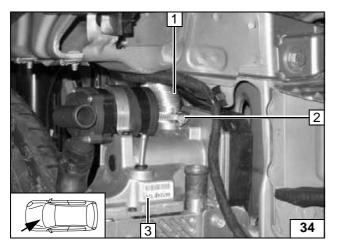


Preparing heater unit

# Opel Zafira B 1 Loosely mount bracket 2 Heater unit 3 Ejot screw [2x] 4 Copy hole pattern, drill 9 mm hole [2x] Preparing heater unit



4



Tighten EJOT screws to 10 Nm!
2 M6x20 bolt, spring lockwasher, large diameter washer, M6 rivet nut
3 Ejot screw [2x]
4 M6x20 screw, spring lock washer, M6 rivet

Install bracket 1 on heater unit again.

4 M6x20 screw, spring lock washer, M6 rivet nut

Installing heater unit

TS:

- 1 Flexible tube
- 2 27 mm dia. clamp
- 3 Heater unit

Installing combustion-air intake pipe

### Water

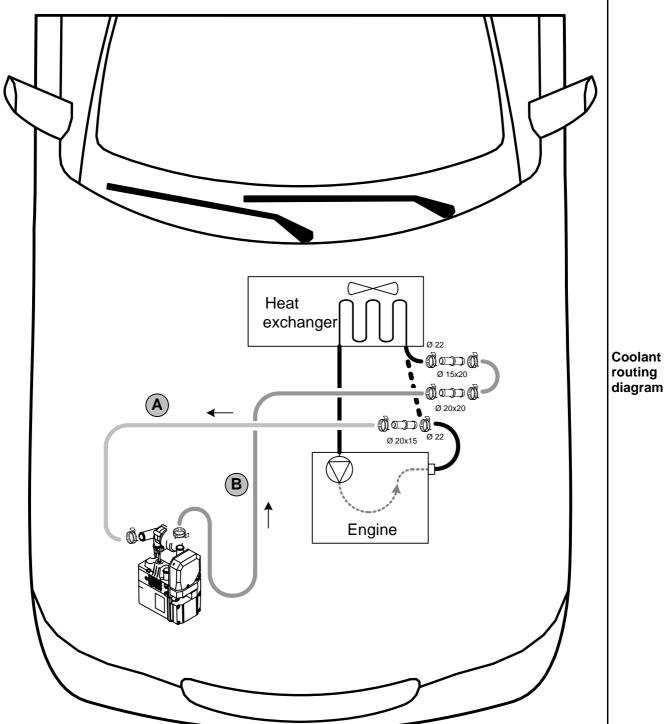
### WARNING!

Tighten all hose clamps to 2.0 + 0.5 Nm.

Any cold water 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 hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

### 1.6 liter gasoline





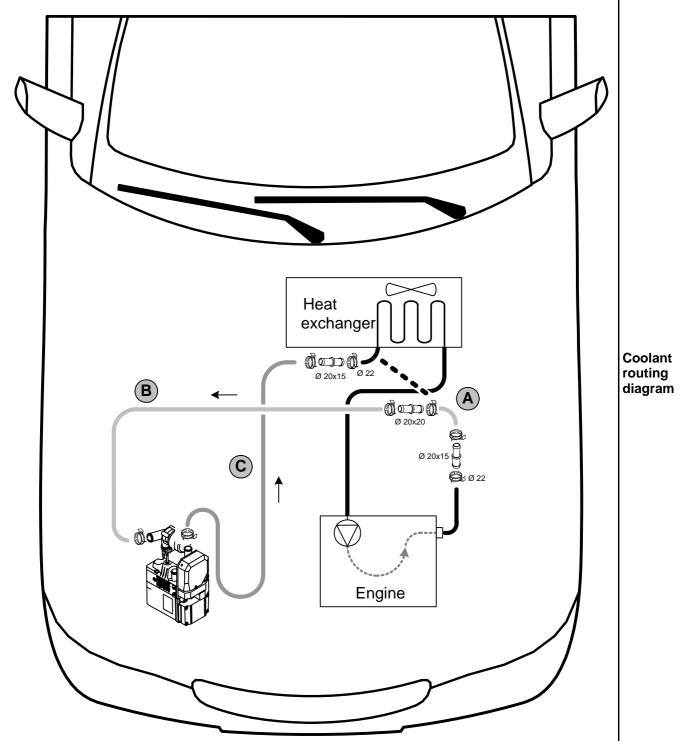
All clamps without a specific designation = 27 mm dia. spring clips!

3

### WARNING!

Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water 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 hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

### 1.8 liter gasoline



All clamps without a specific designation = 27 mm dia. spring clips!

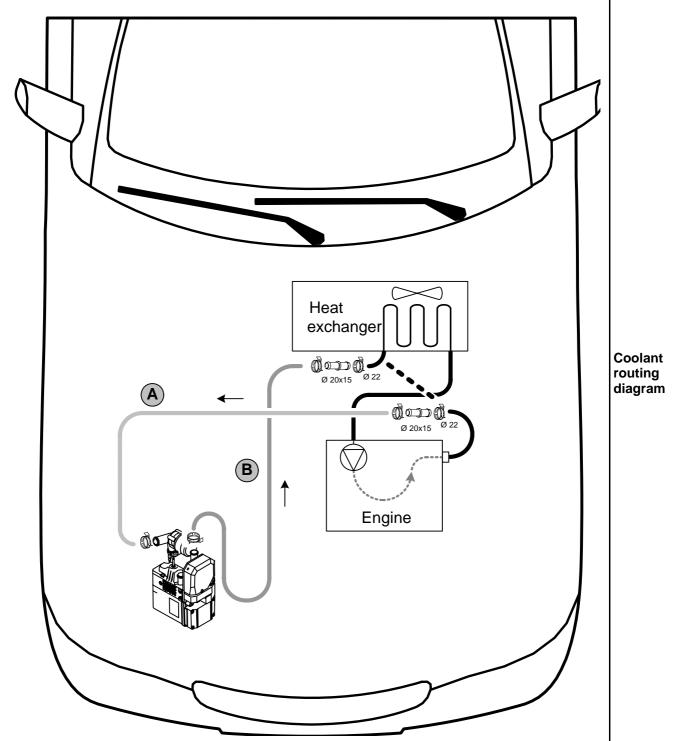
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### WARNING!

Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water 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 hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

### 2.0 liter gasoline



All clamps without a specific designation = 27 mm dia. spring clips!

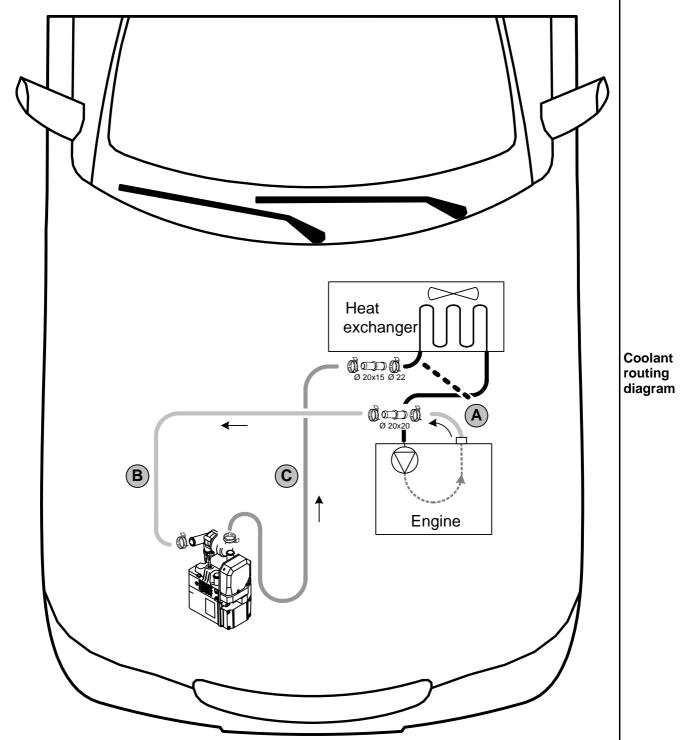
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### WARNING!

Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water 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 hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

### 2.2 liter gasoline



All clamps without a specific designation = 27 mm dia. spring clips!

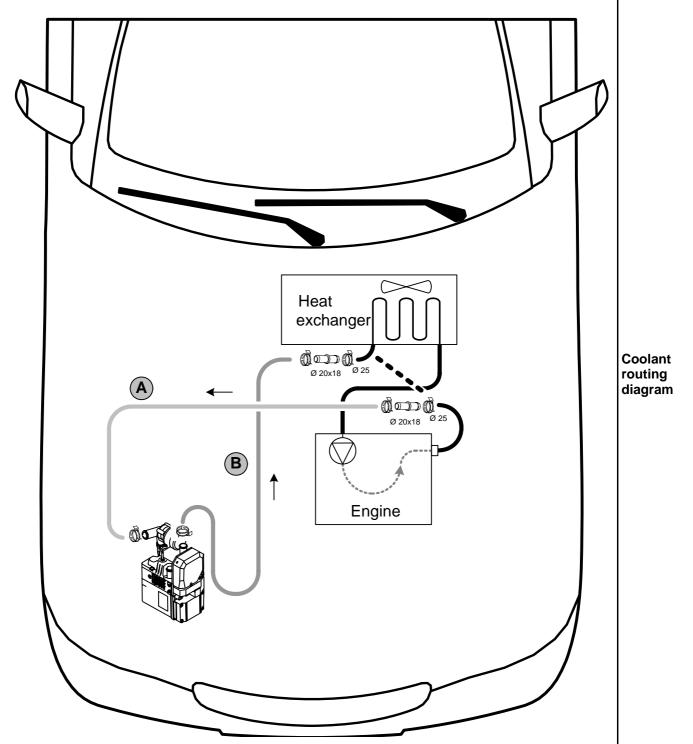
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### WARNING!

Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water 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 hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

### 1.9 liter diesel



All clamps without a specific designation = 27 mm dia. spring clips!

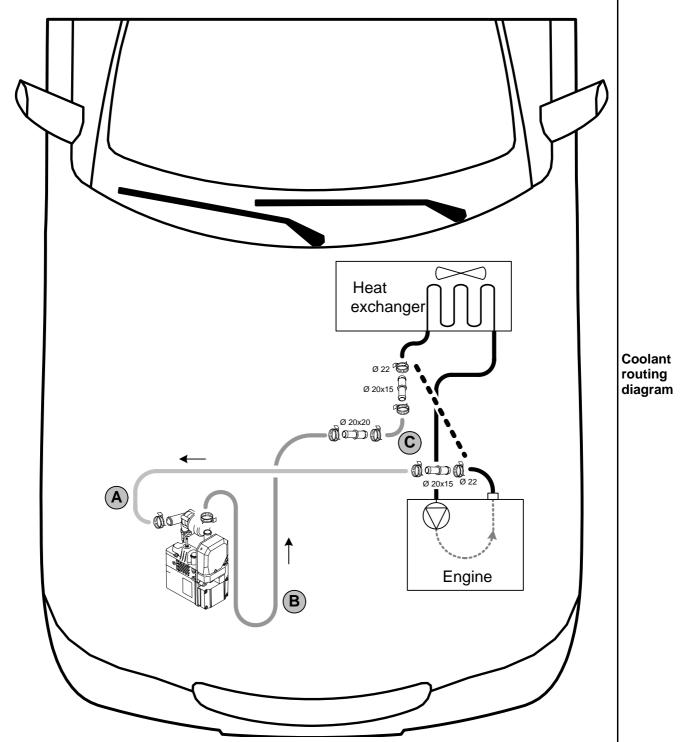
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### WARNING!

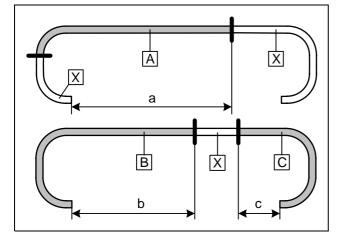
Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water running off should be collected using an appropriate container! Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position hose clamps and spring band clamps so that no other hose can be damaged. The connection should be "inline" based on the following diagram:

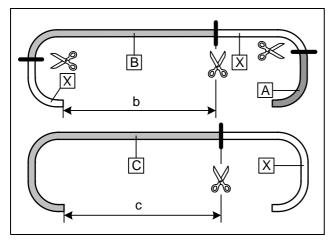
### 1.7 liter diesel



All clamps without a specific designation = 27 mm dia. spring clips!

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### Cut hoses to length

### 1.6 liter gasoline

- a = 1,500 mm b = 1,250 mm c = 100 mm
- Discard section X

1.8 liter gasoline

b = 1,500 mm c = 1,150 mm

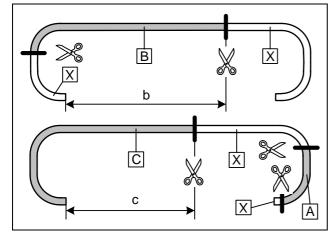
Discard section  ${\bf X}$ 

Cutting coolant hoses to length

Cutting

coolant hoses to

length



### 2.2 liter gasoline

Shorten hose section A according to diagram b = 1,570 mmc = 1,350 mm

Discard section X

Cutting coolant hoses to length

To:

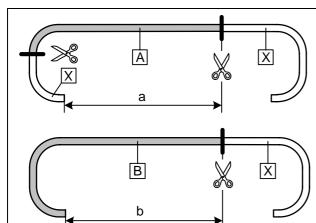
Cutting coolant hoses to length

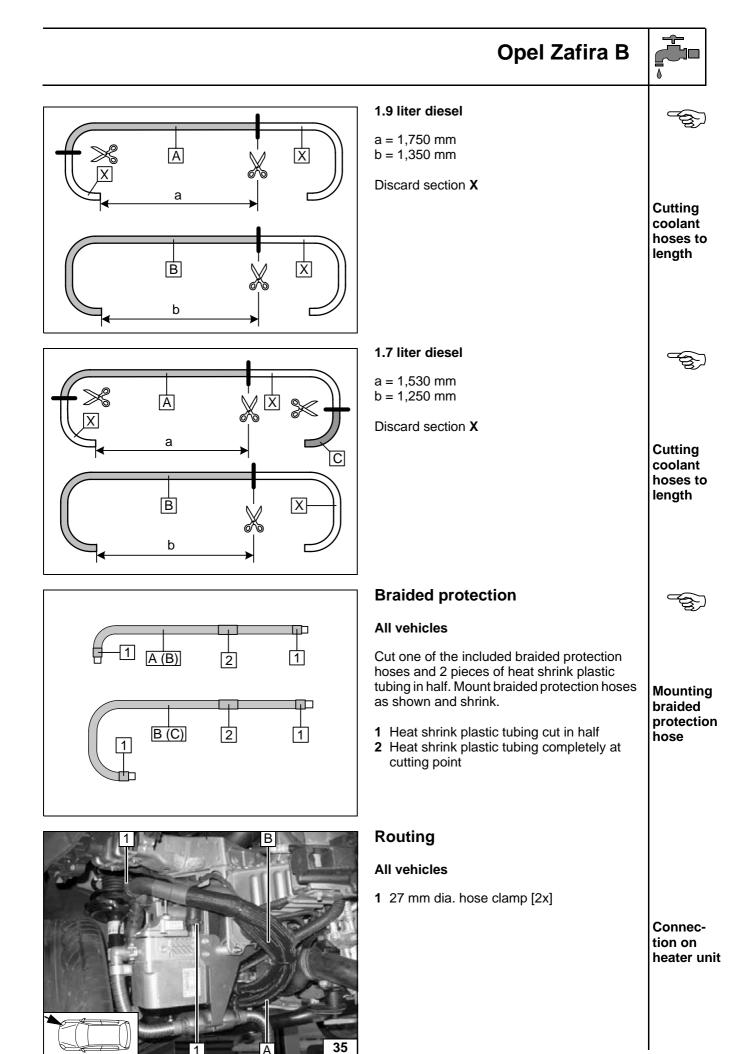
TS)

2.0 liter gasoline

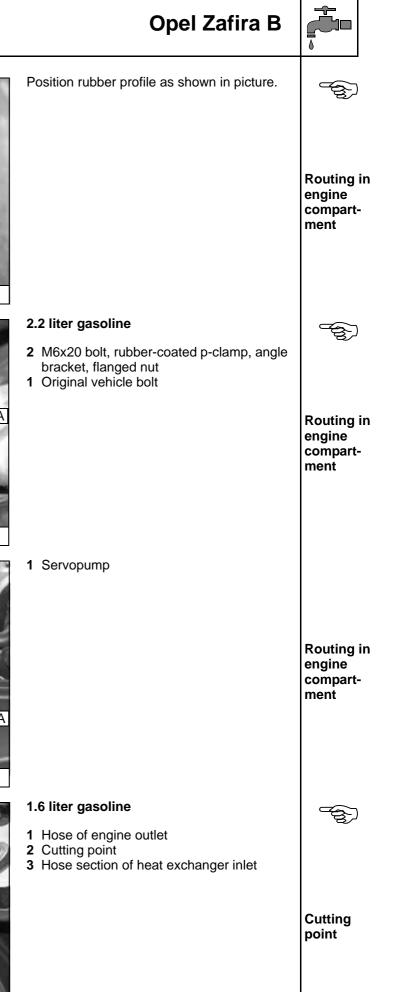
a = 1,500 mm b = 1,250 mm

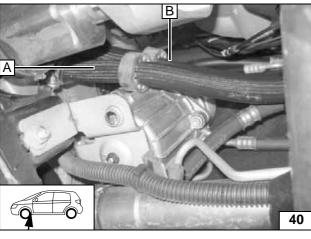
Discard section X

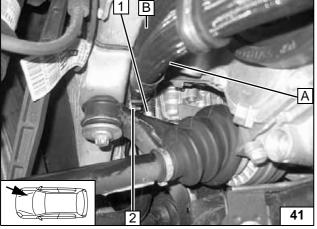


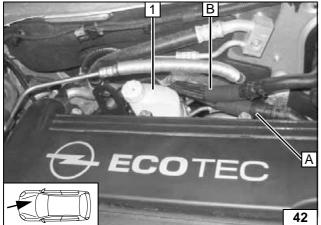


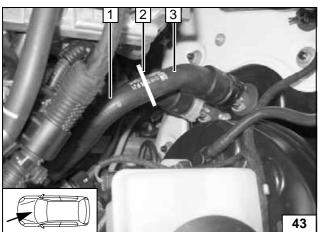
### **Opel Zafira B** 1 40 mm spacer nut, rubber-coated p-clamp [2x], M6x20 bolt, spring lockwasher 2 M6x50 bolt, spring lockwasher, large diameter washer Fastening on engine support 36 1 Perforated bracket 2 3 M6x20 bolt (from inside to outside), large diameter washer, flanged nut 2 M6x20 bolt (from outside to inside), rubbercoated p-clamp, flanged nut [2x] Fastening on engine support 37 1.6 liter ; 1.8 liter; 2.0 liter gasoline and 1.9 Ğ, liter diesel 1 Original vehicle nut 2 Angle bracket Routing in engine compartment 38 1 Rubber-coated pipe clamp 3 B 4 M6x20 bolt, flanged nut 2 Cable tie **3** Black (sw) rubber profile [2x] Routing in engine compartment 39

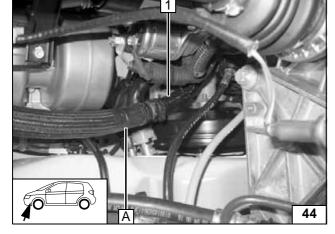


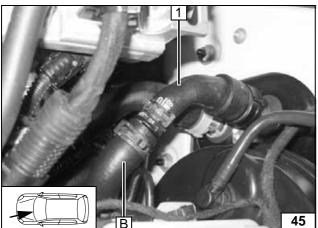


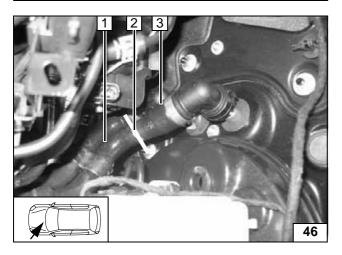


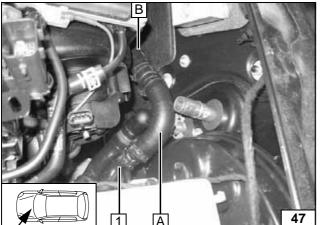






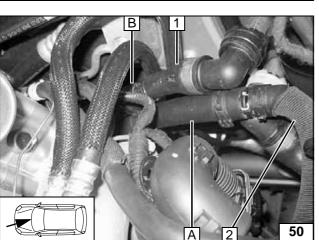


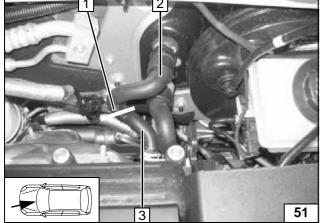




	-	♦	
1	Hose of engine outlet		-
		Connec- tion to e gine out	n-
1	Hose section of heat exchanger inlet		
		Connec- tion on heat ex- changer let	
1.	8 liter gasoline		
1 2	Hose of engine outlet Cutting point Hose section of heat exchanger inlet	- for	)
		Cutting point	
1	Hose of engine outlet		
		Connec- tion to e gine out	n-

1 Hose section of heat exchanger inlet Connection on heat exchanger inlet 48 2.0 liter gasoline Tog Hose has been disconnected from heat exchanger inlet! 1 Hose section of heat exchanger inlet 2 Hose of engine outlet 3 Cutting point [2x] Cutting point 49 1 Hose section of heat exchanger inlet 2 Hose of engine outlet Connection on engine outlet and heat exchanger inlet 50 2.2 liter gasoline 8 1 Cutting point 2 Hose section of heat exchanger inlet 3 Discard hose on engine outlet, original vehicle clamp will be reused Cutting point

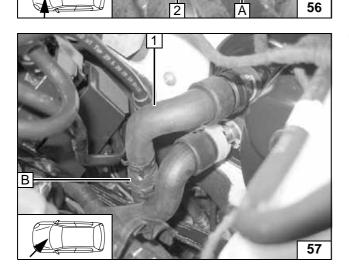


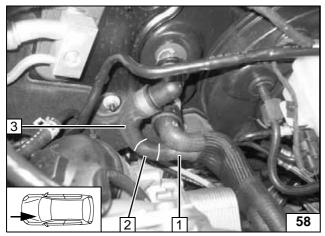


# **Opel Zafira B** Connection to engine outlet 52 1 Hose section of heat exchanger inlet Connection on heat exchanger inlet 53 1.9 liter diesel 2 1 Z S Remove hose 1 from engine outlet/heat exchanger inlet. 3 Cutting point [2x]1 Discard hose section **2** Hose section of heat exchanger inlet Cutting 4 Hose of engine outlet point 54 4 Ž В **Routing on** firewall 55

- Hose of engine outlet
   Spacer bracket

Connection to engine outlet





# С, 59 1

# 1 Hose section of heat exchanger inlet Connection on heat exchanger inlet 1.7 liter diesel \$ Cut off hose on engine outlet/heat exchanger inlet 1 at markings. 1 Engine-outlet hose section 2 Discard hose section 3 Remove hose section on heat exchanger Cutting inlet point Reinstall hose on heat exchanger inlet. 3 1 Hose section of heat exchanger inlet Premounting hose C

# **Opel Zafira B** Slide on 48 mm dia. rubber-coated p-clamp 3 В 2 1 Top over hose A and B and fasten on original vehicle stud bolt with plastic nut 1. 2 Black (sw) rubber isolator [2x] 3 **Routing on** firewall 60 Connection on heat exchanger inlet 61 1 Hose of engine outlet 2 Black (sw) rubber isolator Connection to engine outlet 62 1 Spacer bracket Installing spacer bracket 63

### Fuel

### **CAUTION!**

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

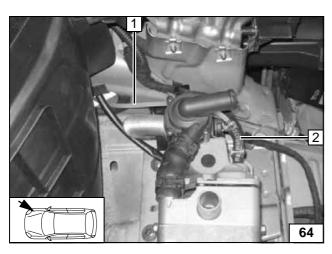
Catch any fuel running off with an appropriate container.

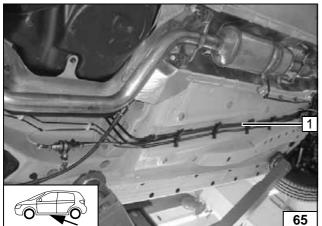
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

### WARNING!

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

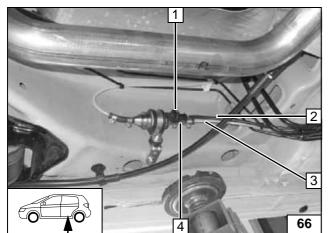
1 Mecanyl fuel line





1 Mecanyl fuel line and wiring harness of metering pump, original vehicle lines

2 Hose section, 10 mm dia. hose clamp [2x]



Fuel line from fuel standpipe on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.
3 Mecanyl fuel line
4 Hose section, 10 mm dia. hose clamp [2x]
2 Metering pump wiring harness
1 Plug-in contacts, single wire seal, connector housing



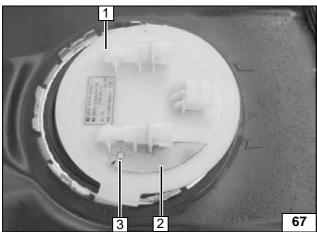


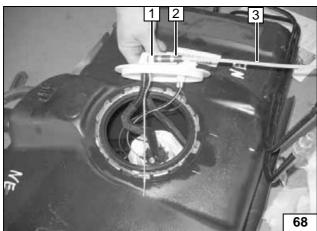
Connection on heater unit

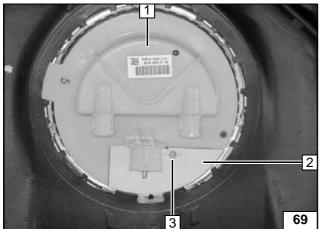
Installing lines

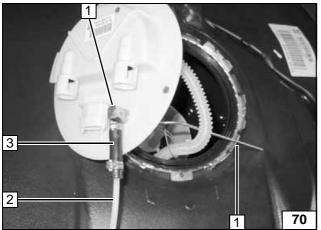






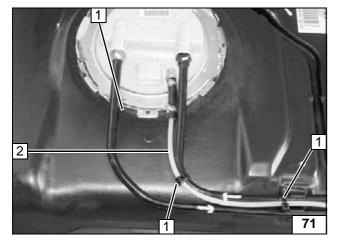


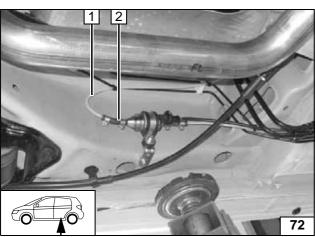




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<ul> <li>All vehicles except 1.7 liter diesel</li> <li>Remove and dismantle fuel tank and fuel- tank sending unit 1 according to manufacturer's instructions.</li> <li>2 Cut out template and lay on</li> <li>3 Copy hole pattern, 6 mm dia. hole</li> </ul>	Removing fuel
<ol> <li>Fuel standpipe</li> <li>Hose section, 10 mm dia. Caillau clamp [2x]</li> <li>Fuel line</li> </ol>	Mounting fuel standpipe
<ul> <li>1.7 liter diesel</li> <li>Remove and dismantle fuel tank and fueltank sending unit 1 according to manufacturer's instructions.</li> <li>2 Cut out template and lay on</li> <li>3 Copy hole pattern, 6 mm dia. hole</li> </ul>	<b>Removing</b> fuel
<ol> <li>Fuel standpipe</li> <li>Fuel line</li> <li>Hose section, 10 mm dia. Caillau clamp [2x]</li> </ol>	Mounting fuel standpipe

- 1 Cable tie [2x]
- 2 Fuel line





### All vehicles

Route fuel line along original vehicle fuel lines to installation location of metering pump. Fuel line from fuel standpipe on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

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



Mounting fuel-tank sending unit

Connection to metering pump

5

Exhaust gas 1 2 1 Exhaust pipe a = 200 mm 2 Exhaust end section b = 150 mm Preparing exhaust Discard section X pipe В а Х 1 Bracket 2 M6x16 bolt, flanged nut 3 Muffler Installing muffler 73 4 Exhaust elbow 2 Exhaust pipe 3 Red (rt) rubber isolator 1 Hose clamp [3x] Installing exhaust pipe 74 4 Exhaust muffler 2 1 3 Exhaust end section 1 Hose clamp 2 Position red (rt) rubber isolator [2x] Installing exhaust pipe and end

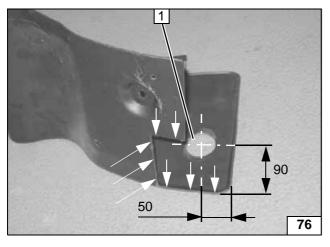
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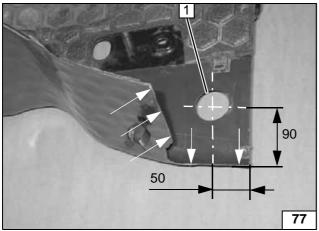
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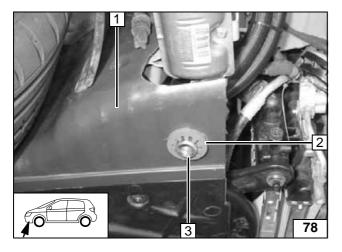
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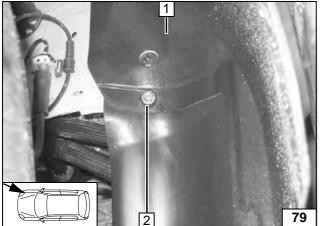
4

end section









### Gasoline

Design of underride protection/wheel well trim is dependent on vehicle equipment

Cut out underride protection/wheel well trim on marking. Dimensions in mm!

1 42 mm dia. hole

### Diesel

1 42 mm dia. hole



**Cutting out** 

underride protection

Cutting out underride protection

Mounting rubber

isolator



First position red (rt) rubber isolator **2** on exhaust end section **3** from below, then insert with groove in underride protection **1**. Align end cap of exhaust end section **3** flush on red (rt) rubber isolator **2** as shown.

- 1 Underride protection/wheel well trim
- 2 Red (rt) rubber isolator with groove
- 3 Exhaust end section
- 1 Wheel well trim
- 2 Premounted bolt from fastener of coolant hoses, M6 flanged nut

Mounting wheel well trim

### **Final Work**

### WARNING!

Reassemble the disassembled components in reverse order.

Check all hoses, hose, spring and Caillau clamps, as well as all electrical connections for firm seating. Secure all loose cables using cable ties.

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

- Connect the battery
- Start the engine, bleed the coolant circuit according to the instructions of the vehicle manufacturer and add coolant
- Set the digital timer.
- Adjust the vehicle heater with automatic air-conditioning or without automatic air-conditioning according to "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.





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### **Template for Fuel Sender**

