D	Anderungen bezüglich Konstruktion, Ausstattung, Farbe sowie intum vorbehalten. Angaben und Abbildungen unverbindlich.	D	Einbauanleitung
GB	Subject to change in terms of construction, equipment and colour, and may contain errors. The information and illustrations are non-binding.	GB	Installation instructions
F	Sous réserve de modifications de la construction, de équipement, de la couleur et sous réserve d'erreurs. Les indications et les illustrations sont sans engagement.	F	Consignes de montage
NL	Wijzigingen met betrekking tot constructie, uitvoering en kleur evenale vergissingen voorbehouden. Gegevens en afbeeldingen niet bindend.	NL	Montagehandleiding
<b>OK</b>	Ændringer med hensyn til konstruktion, udstyr, farver samt føjl forbeholdes. Oplysninger og lilustrationer er uforpligtende.	ØK	Montagevejledning
	Endringer angående konstruksjon, utetyr, farge og felitagelse forbeholdes. Opplysninger og illustrasjoner uforbindtlig.	$(\mathbf{N})$	Monteringsinstruksjon
\$	Med reservation för ändringer vad det gäller konstruktion, utrustning, färg samt för misstag. Uppgifterna och bilderna är inte bindande.	\$	Installationsanvisning
FN	Pidätämme oikeuden rakennetta, varustusta, väriä koskeviin sekä erehdyksestä johtuviin muutoksiin. Tiedol ja kuvat eivät ole sitovia.	FN	Asennusohje
	Con riserva di modifiche relative a progettazione, dotazione, colore ed errori. Le indicazioni e figure sono fornite sensa impegno.		Istruzioni per il montaggio
E	Reservadas las modificaciones respecto a diseño, equipamiento, color, así como error. Indicaciones y líguras sin compromiso.	E	Instrucciones de montaje
P	Reservamos o direito de alterações relativamente ao desenho, equipamento, cor, bem como de erro. Os dados e as gravuras não implicam compromisso da nossa parte.	P	Instruções de montagem
GR	Διατυπώνουμε κάθε επιφύλαξη ως προς αλλαγές σε σχέση με κατασκευή, εξοπλισμό, διαρρύθμιση, χρωματισμούς και λάθη παραδρομής.	GR	Οδηγίες εγκατάστασης
CZ	Změny, týkajíci se konstrukce, vybavení, barvy, jakož i omyly jsou vyhrazeny. Údeje a vyobrazení jsou nezávazné.	CZ)	Návod k montáži
PL	Zastrzega slę prawo do zmlan dot, konstrukcji, wykończenia, kolorystyki oraz pomyłek. Dane i liustracje niewiążące.	PL	Instrukcja montażu
TR	Tasarım, donanım ve renk bakımından değişiklik yapma hakkı ve hata ve eksiklik mahfuzdur. Veriler ve resimler bağlayıcı değildir.	TR	Montaj talimati
H	A szerkezet, a kivitel és a szín változtalása, valamint a változások joga fenntartva. Az adatok és az ábrák nem köteleiző érvényűek.	H	Beépítési útmutató
HR	Pravo promjena u svezi konstrukcije, opreme, boje kao i zabune oridžavamo. Podaci i liustracije su neobavezne.	HR	Upute o ugradnji
œu	Залазени права по отношение на конструкцията, обзавеждането, џвета и грешки. Данните и изображенията не са обсързващи.	BU	Инструкция эа монтаж
RO	Ne rezervăm dreptul unor modificări ale construcțiau, dotării, culorii și dreptul la erori Datele indicate și imaginile sunt orientative.	RO	Instrucțiuni de montaj
RUS	Права на внесение изменений относительно конструкции, оснащения, окраски, а также на ошибки сохраняются. Данные и иллюстрации имеют примерный хврактер.	RUS	Инструкция по монтажу и установке
Ē	Pasillekama konstrukcijos, įrangos bei reikmenų, spalvos pakeitmų ir klaidų teisė. Duomenys ir ilistracijos neįpareigojantys.	Ū	Montavimo informacija
	Tiek paturētas tiesības uz konstrukcijas, iekārtu, krāsu izmalņām, kā arī kjūdīšanos. Dati un attēli bez salstībām.	Ŵ	lemontēšanas pamācība
<b>E</b>	Konstruktslooni, varustuse ja vœrvi osas muudatused ning eksimine lubatud. Andmed ja joonised on miltesiduvad.	(EST)	Paigaldusjuhend
<u>SLO</u>	Zadržana pravica do sprememb glede konstrukcije, opreme, barve ter pomote. Podatki in slike so neobvezne.	(SLO)	Navodilo za vgradnjo
SK	Zmeny, ktoré sa týkajú konštrukcie, vybavenia, farby, ako aj omyly sú vyhradené. Údaje a zobrazenia sú nezáväzné.	(SK)	Montážny návod

# Water Heater Unit

Thermo Top E Additional Heater Thermo Top C Additional Heater 00 0002 *Thermo Top P* Additional Heater

# 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.

e1

00 0003 e1

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.



# **Table of Contents**

Validity	2	Coola
Heater Unit/Installation Kit	3	1.6 lit
Foreword	3	1.8 lit
General Instructions	3	2.0 lit
Special Tools	4	2.2 lit
Explanatory Notes on Document	5	1.9 lit
Preliminary Work	5	1.7 lit
Heater unit installation location	5	Cut h
Preparing Electrical System	6	Braid
Electrical Diagram	7	Routi
Fan controller for manual air conditioning	9	Fuel
With passenger compartment monitoring	10	Exha
Automatic Air-Conditioning Fan Controller	11	Final
With passenger compartment monitoring	12	Temp
Remote option (Telestart)	13	Temp
Remote option (Thermo Call)	14	Opera
Combustion Air	15	•
Preparing Installation Location	16	
Preparing Heater Unit	18	
Installing Heater Unit	18	
	10	

Coolant 1.6 liter gasoline 1.8 liter gasoline 2.0 liter gasoline 2.2 liter gasoline 1.9 liter diesel 1.7 liter diesel Cut hoses to length Braided protection Routing Fuel Exhaust Gas Final Work Template for Fuel Sender Template for Fuel Standpipe Operating Instructions for Customer	20 21 22 23 24 25 26 27 27 34 38 40 41 42 43
--	--

# Validity

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

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).

# Opel Zafira B Special Tools 1 Torque wrench for 2.0 - 10 Nm Hose clamping pliers Mechanical work Mechanical work Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag

Special features are highlighted using the following symbols:







Specific risk of injury or fatal accidents.

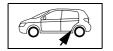
Specific risk of damage to components.

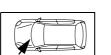
Specific risk of fire or explosion.

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



Reference to a special technical feature.





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

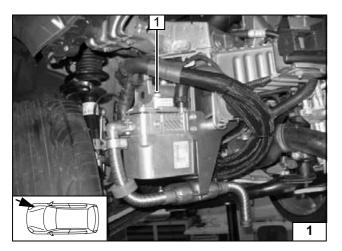
# **Explanatory Notes on Document**

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!

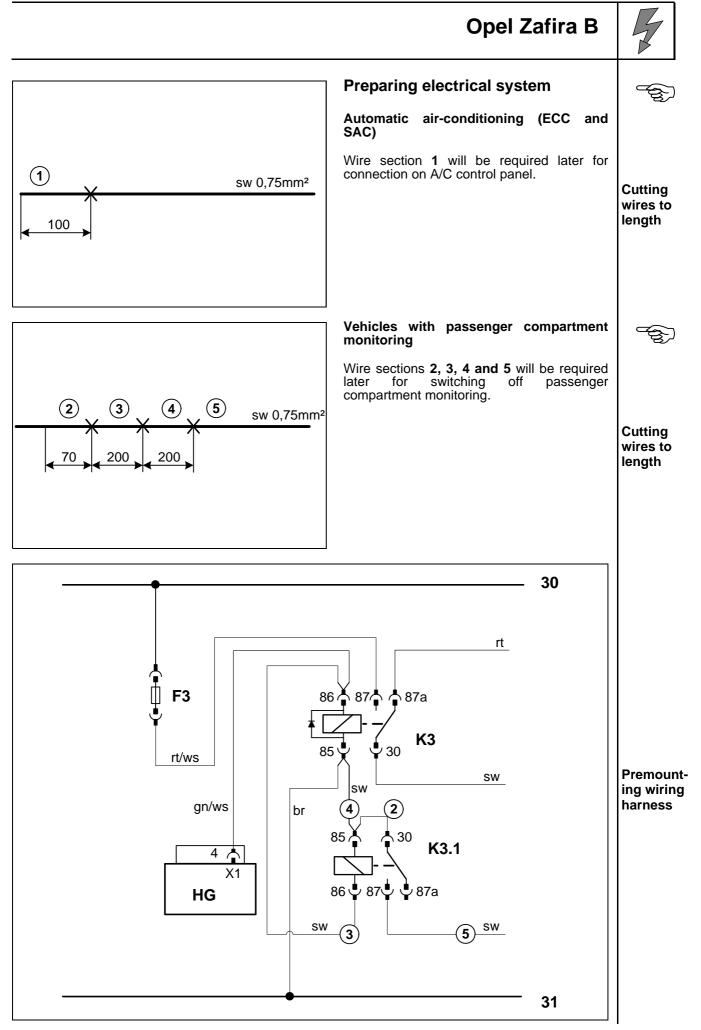
- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- 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





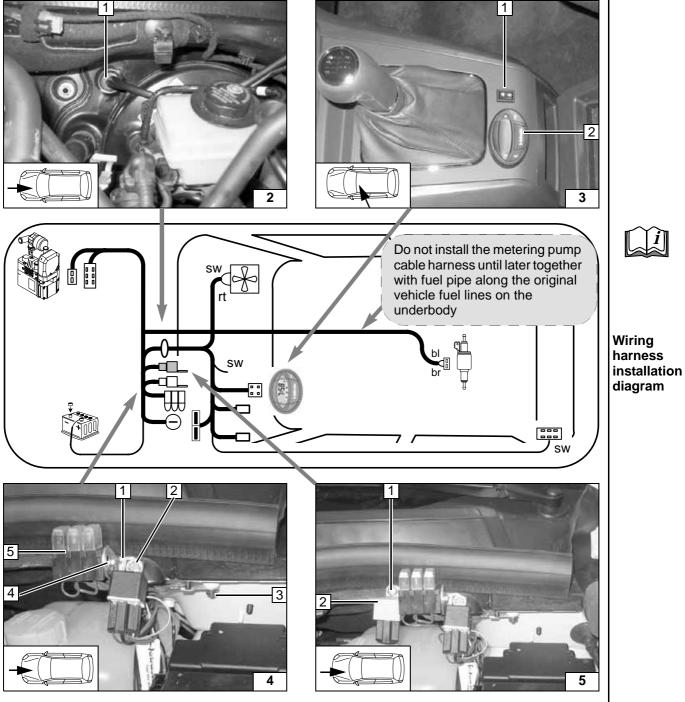
# **Electrical system**

# 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

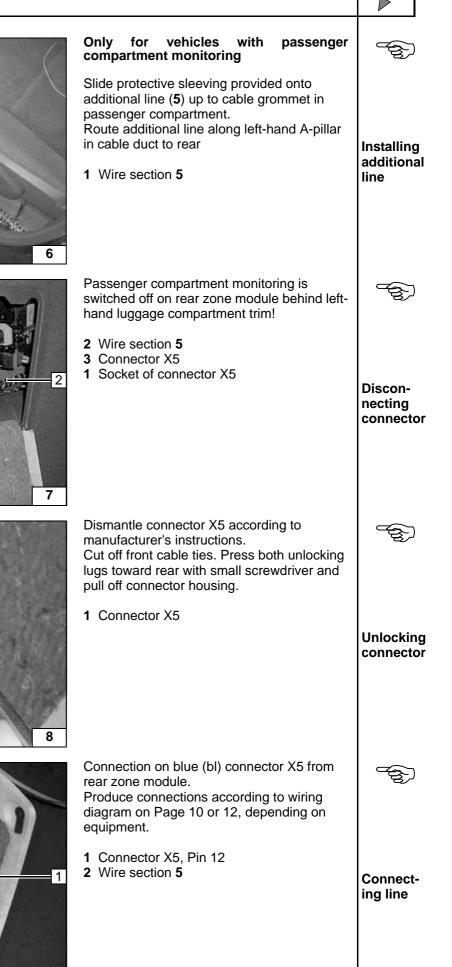


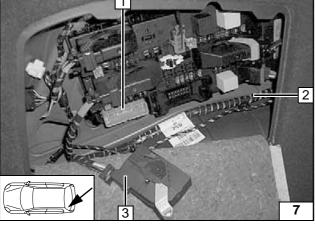
# Fuse holder, relay K3

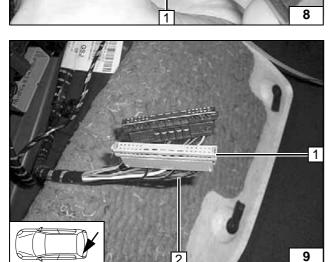
- 2 5.5 mm dia. hole
- 1 M5x12 bolt, large diameter washer [2x], K3 relay, angle bracket, M5 flanged nut
- **3** Ground support point, M6 flanged nut on existing stud bolt
- 4 Fuse holder retaining plate, M4x10 bolt, washer, M4 nut
- 5 Fuse holder

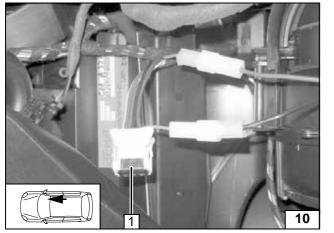
Additional K3.1 relay with passenger compartment monitoring

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









# Fan controller for manual air conditioning

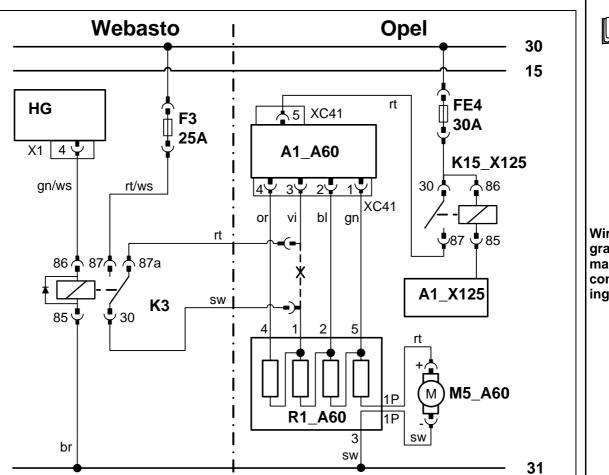
Integration on 6-pin connector ZF 5-12 from fan motor.

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!



Wiring dia-
gram for
manual air
condition-
ing

3

**Connect-**

tor

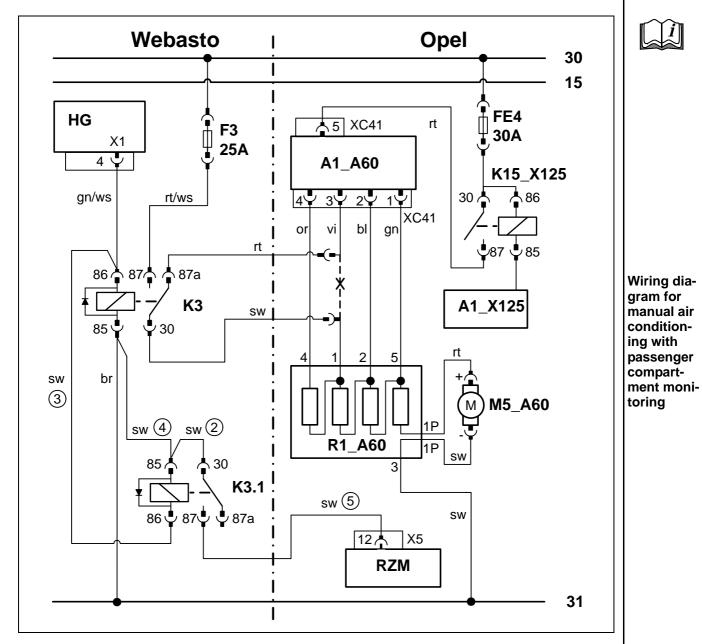
ing fan mo-

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	Logond
		FE	Fuse	gn	green	Legend
				bl	blue	
				ge	yellow	
				or	orange	
				vi	violet	
				Х	Cutting point	
				Wirir	ng colors may vary.	

# Only for manual air conditioning with passenger compartment monitoring

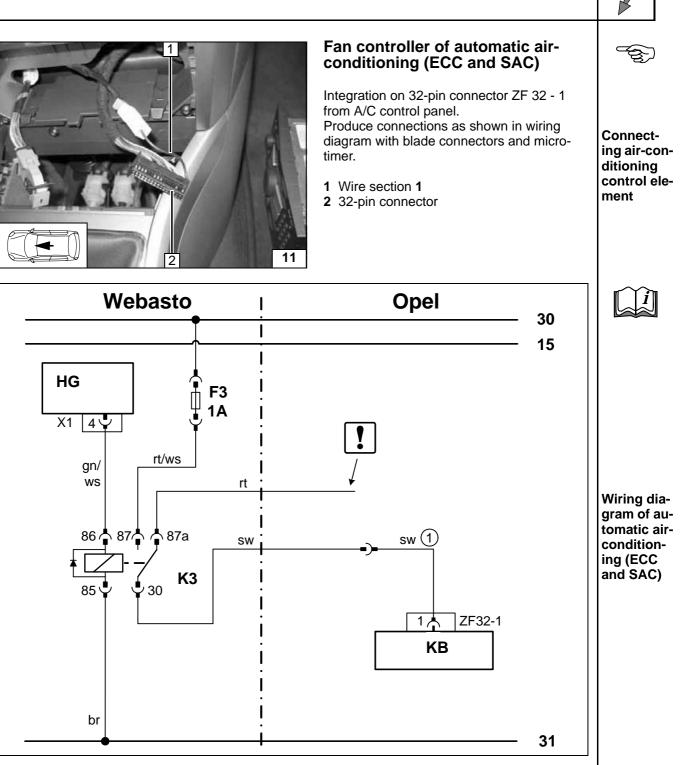
Connecting fan motor

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



Weba	Webasto components		Opel components		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	L
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.	

Legend

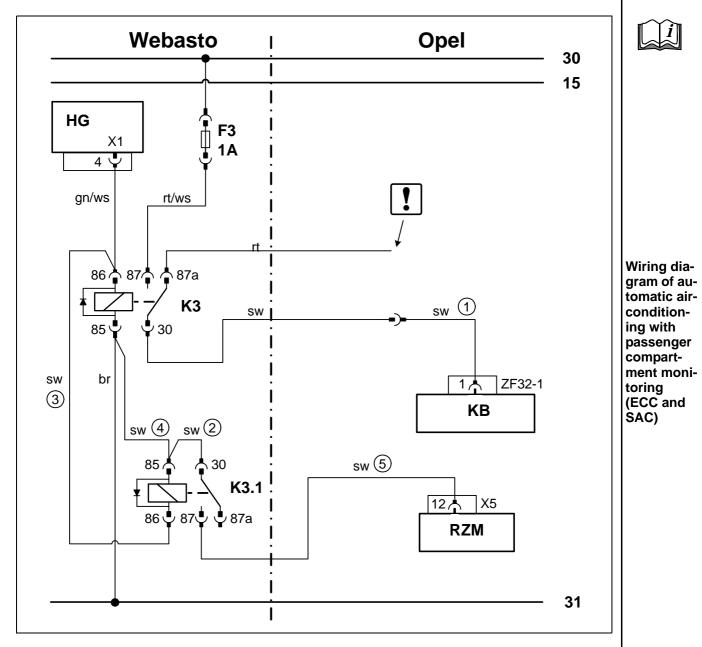


Webasto components		Opel components		Colors	Colors and symbols		
HG	Heater unit TT-C/E	KB	Air-conditioning control panel	rt	red		
X1	6-pin heater unit connector			WS	white		
F3	Fuse			SW	black	Lonond	
K3	Fan relay			br	brown	Legend	
				gn	green		
				!	Insulate wire ends and tie back		
				Wiring	colors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

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

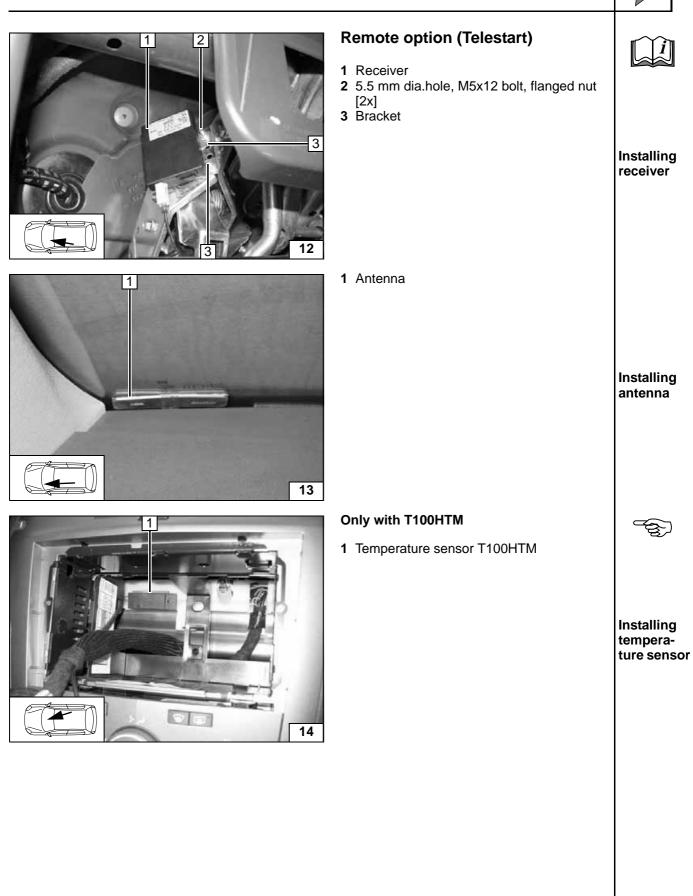
Connecting fan motor

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



Webasto components		Opel o	Opel components		Colors 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	1
				!	Insulate wire ends and tie back	
				Wiring colors may vary.		]





# Remote option (Thermo Call)

- 1 Receiver
- **2** 4 mm dia. hole, 5.5x9.5 self-tapping screw [4x]

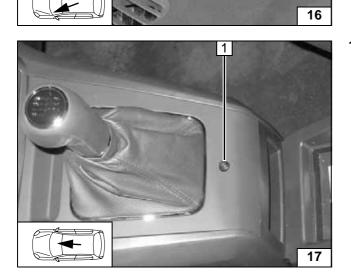
# Installing receiver

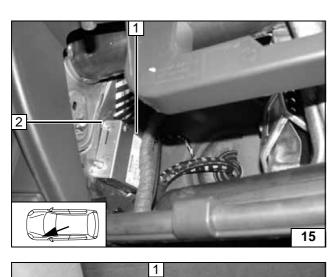
1 Antenna

Installing antenna

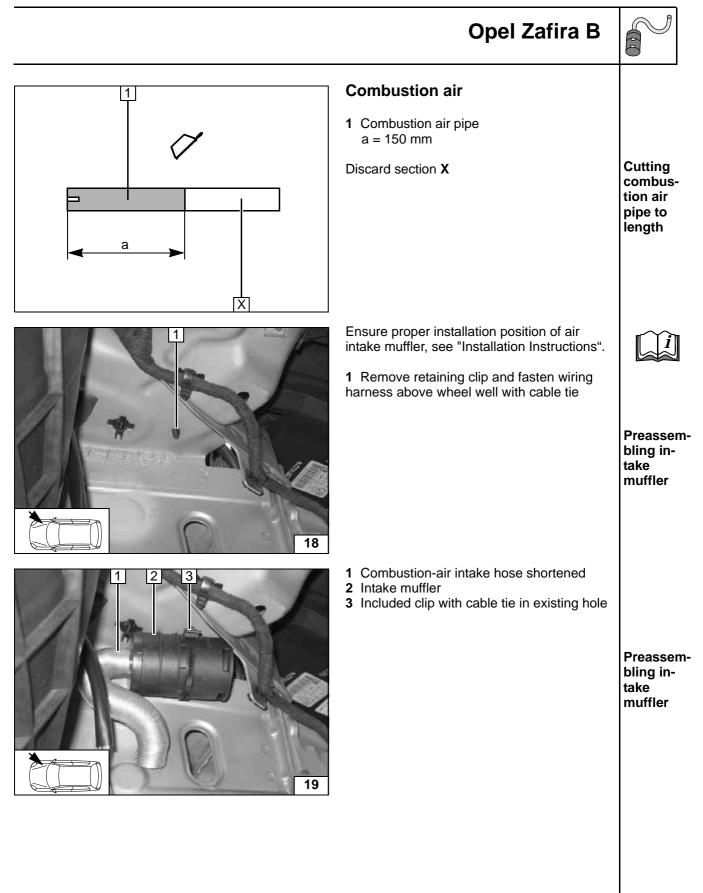
Installing push button

- 1 Pushbutton
  - rushbutton

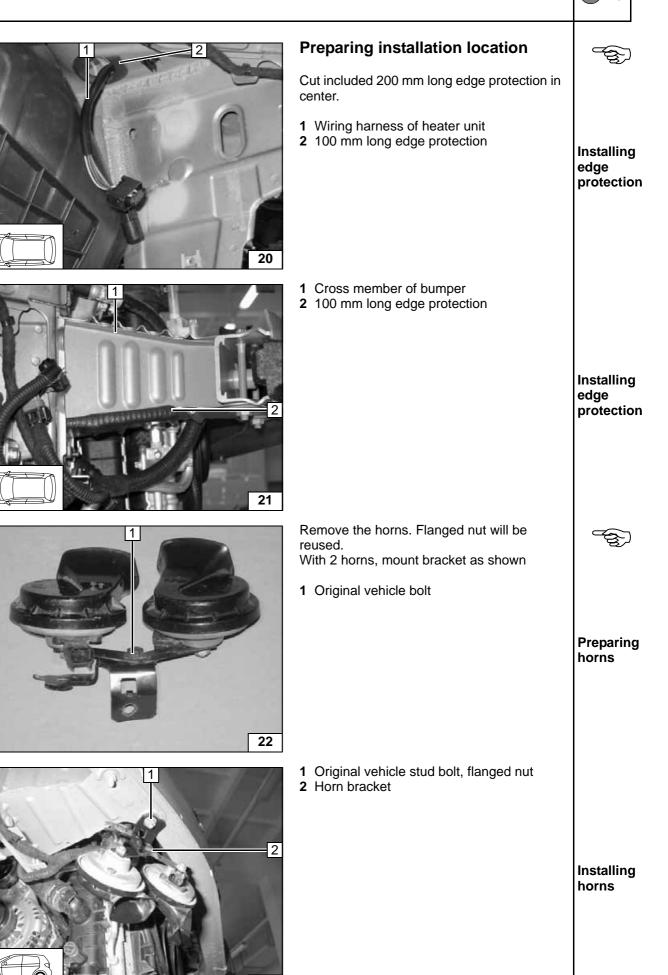








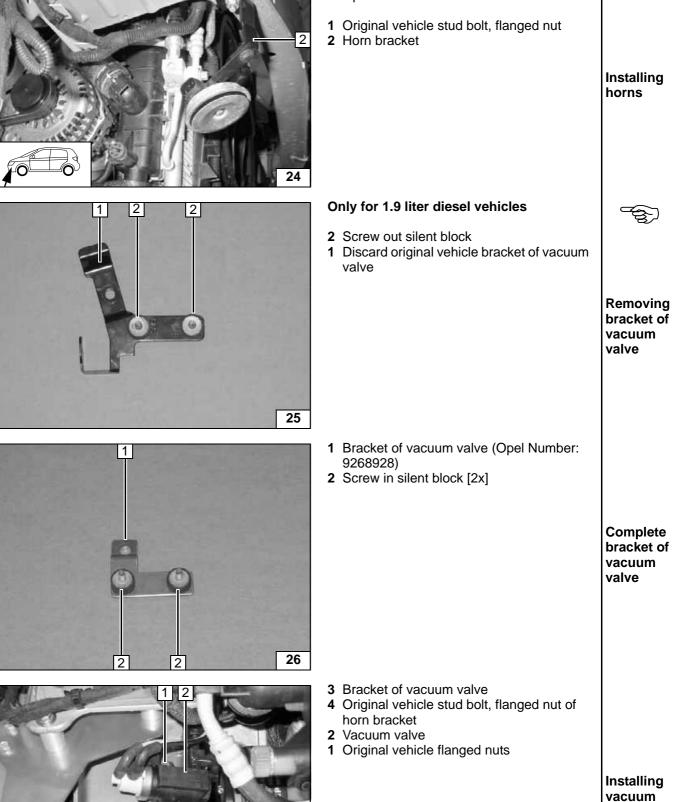
 $\Box 0$ 



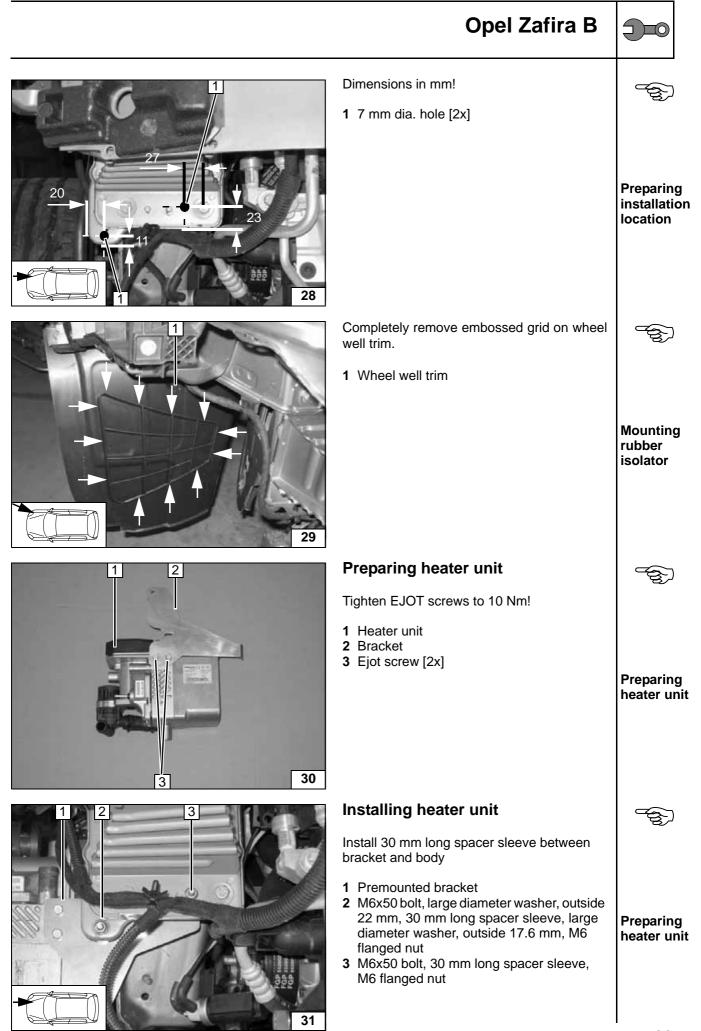
1

# **Opel Zafira B**

With 1 horn, mount bracket as shown. Ensure freedom of movement to adjacent components.



valve



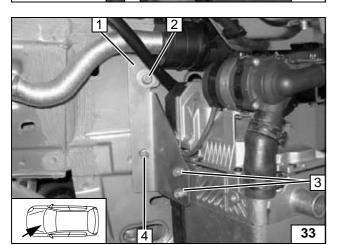
Δ

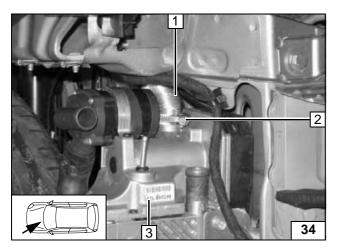
**Opel Zafira B** 

- 1 Loosely mount bracket
- 2 Heater unit
- 3 Ejot screw [2x]
- 4 Copy hole pattern, drill 9 mm hole [2x]



Preparing heater unit





2 M6x20 bolt, spring lockwasher, large diameter washer, M6 rivet nut

Install bracket 1 on heater unit again.

Tighten EJOT screws to 10 Nm!

3 Ejot screw [2x]

32

4 M6x20 screw, spring lock washer, M6 rivet nut

Installing heater unit

Too So

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

Installing combustion-air intake pipe

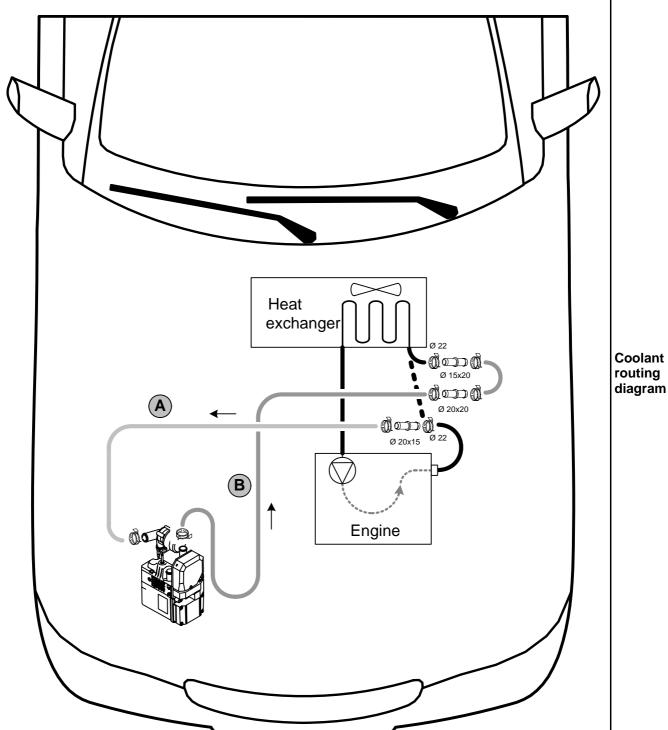
# Water

# 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





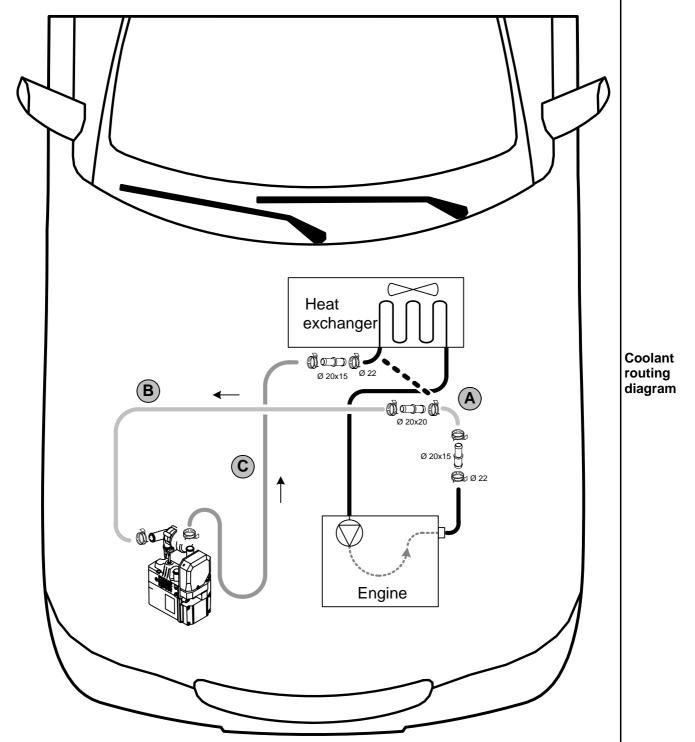
All clamps without a specific designation = 27 mm dia. spring clips!

⋧

# 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!

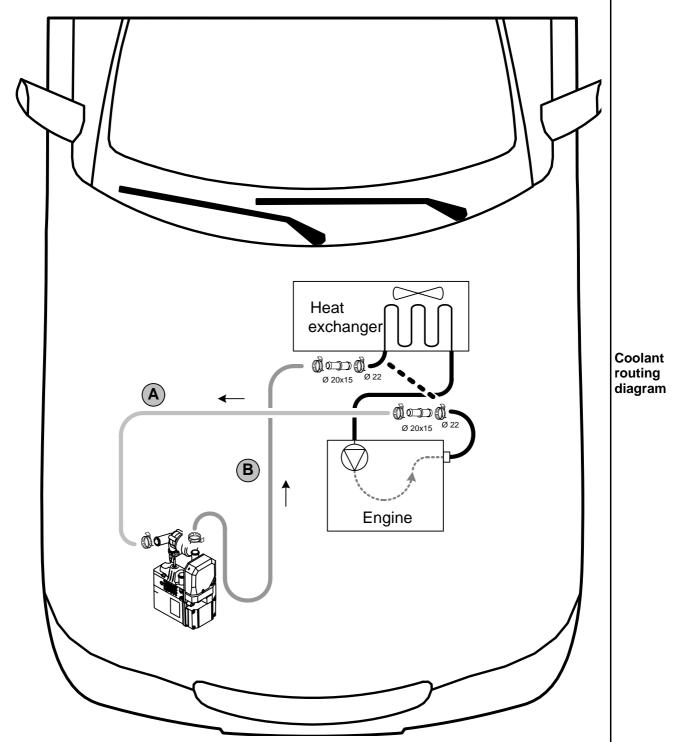
<del>7</del>92)

\$

# 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!

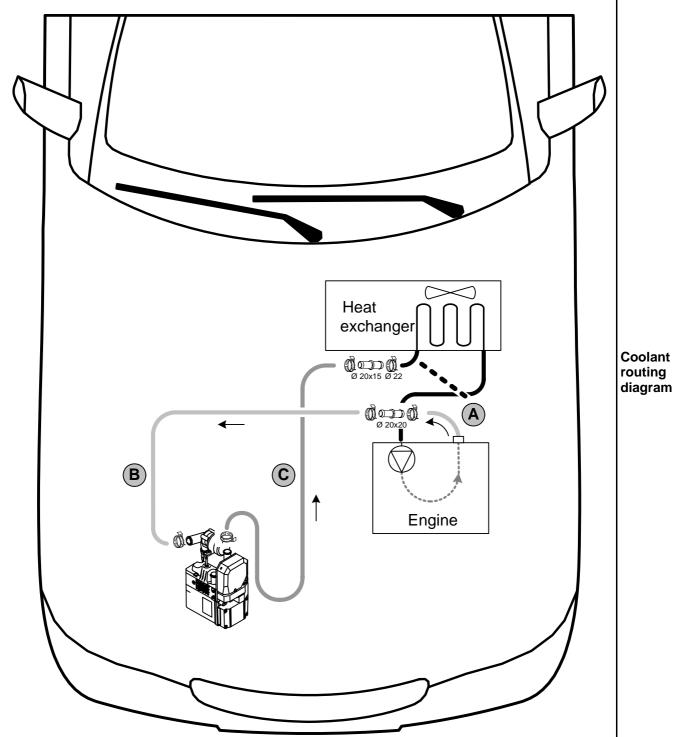
<del>7</del>92)

⋧

# 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



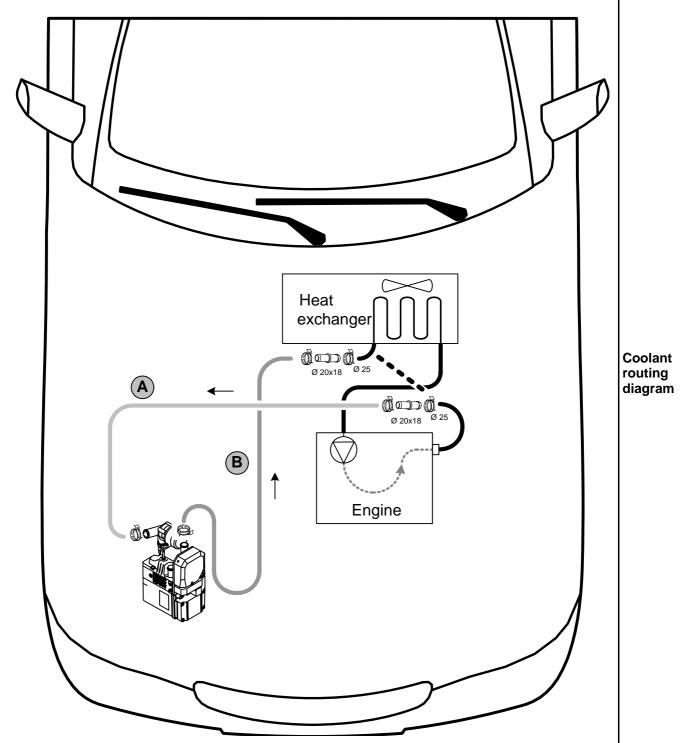
All clamps without a specific designation = 27 mm dia. spring clips!

⋧

# 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



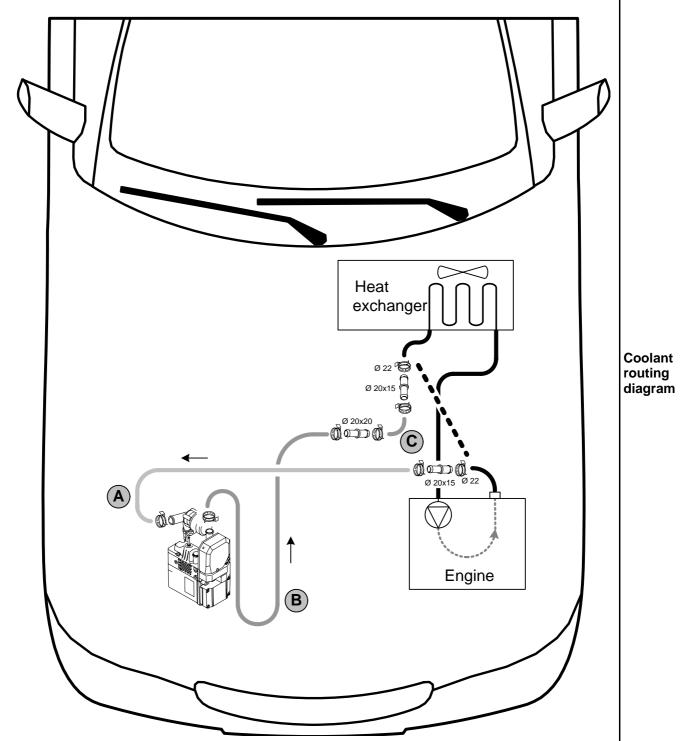
All clamps without a specific designation = 27 mm dia. spring clips!

3

# WARNING!

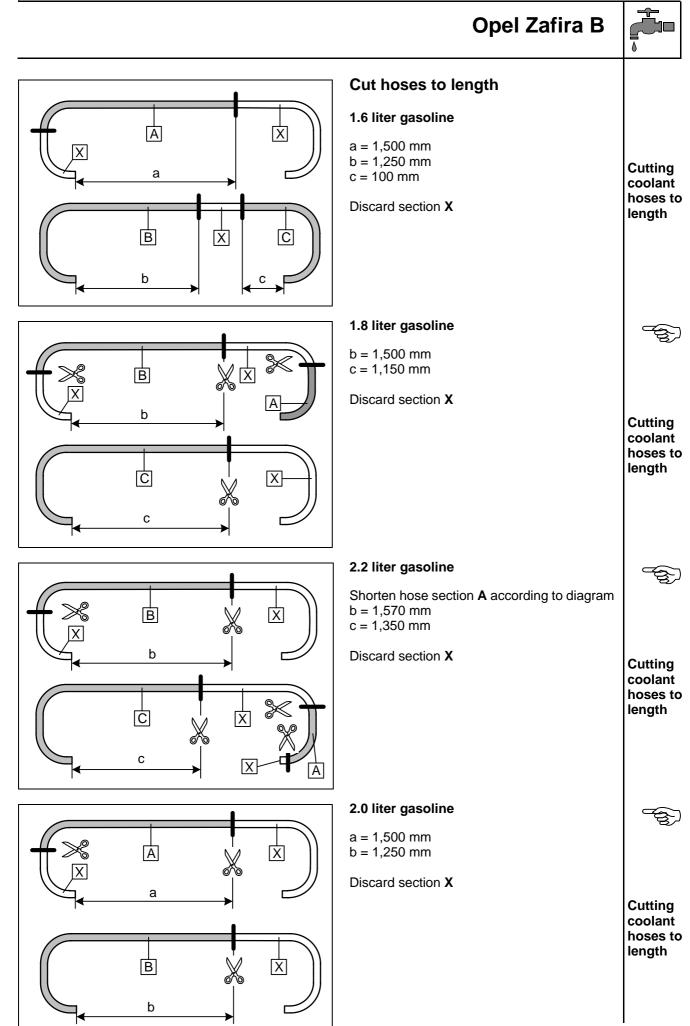
Tighten all hose clamps to 2.0 + 0.5 Nm. Any cold water running off should be collected using an appropriate container! Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position hose clamps and spring band clamps so that no other hose can be damaged.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

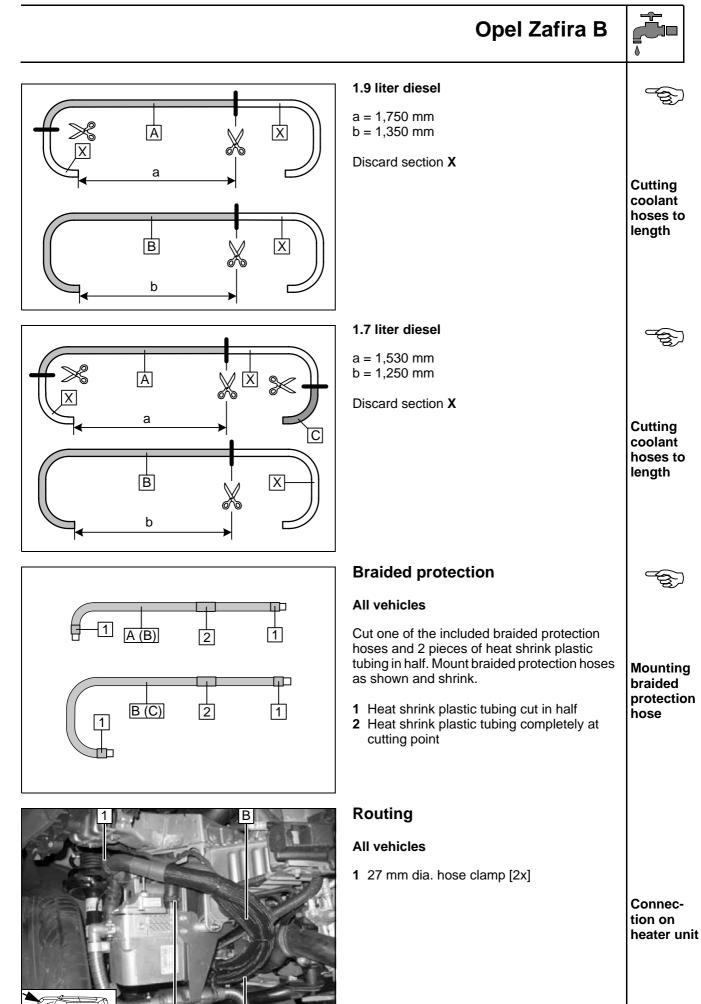
# 1.7 liter diesel



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

<del>7</del>92)





А

-	6	
<ol> <li>40 mm spacer nut, rubber-coated p-clamp [2x], M6x20 bolt, spring lockwasher</li> <li>M6x50 bolt, spring lockwasher, large diameter washer</li> </ol>	Fastenir on engir support	ne
<ol> <li>Perforated bracket</li> <li>M6x20 bolt (from inside to outside), large diameter washer, flanged nut</li> <li>M6x20 bolt (from outside to inside), rubber-coated p-clamp, flanged nut [2x]</li> </ol>	Fastenir on engir support	ne
<ul> <li>1.6 liter ; 1.8 liter; 2.0 liter gasoline and 1.9 liter diesel</li> <li>1 Original vehicle nut</li> <li>2 Angle bracket</li> </ul>	Routing engine compart ment	
<ol> <li>Rubber-coated pipe clamp</li> <li>M6x20 bolt, flanged nut</li> <li>Cable tie</li> <li>Black (sw) rubber profile [2x]</li> </ol>	Routing engine compart ment	-

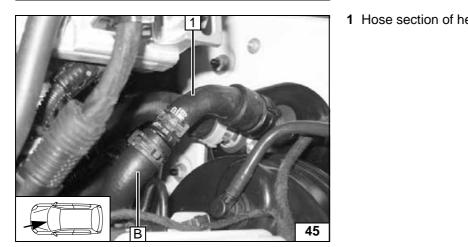
Opel Zafira B

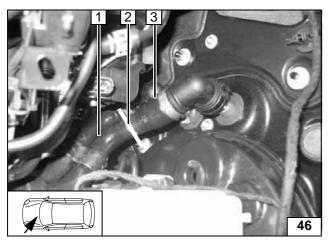
# **Opel Zafira B** Position rubber profile as shown in picture. В Too Routing in engine compartment 40 2.2 liter gasoline Ϋ́ς B 2 M6x20 bolt, rubber-coated p-clamp, angle bracket, flanged nut 1 Original vehicle bolt Routing in engine compartment 41 1 Servopump R Routing in engine compartment = 42 1.6 liter gasoline \$ 1 Hose of engine outlet 2 Cutting point 3 Hose section of heat exchanger inlet Cutting point

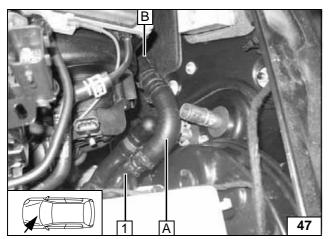
1

1 Hose of engine outlet

44





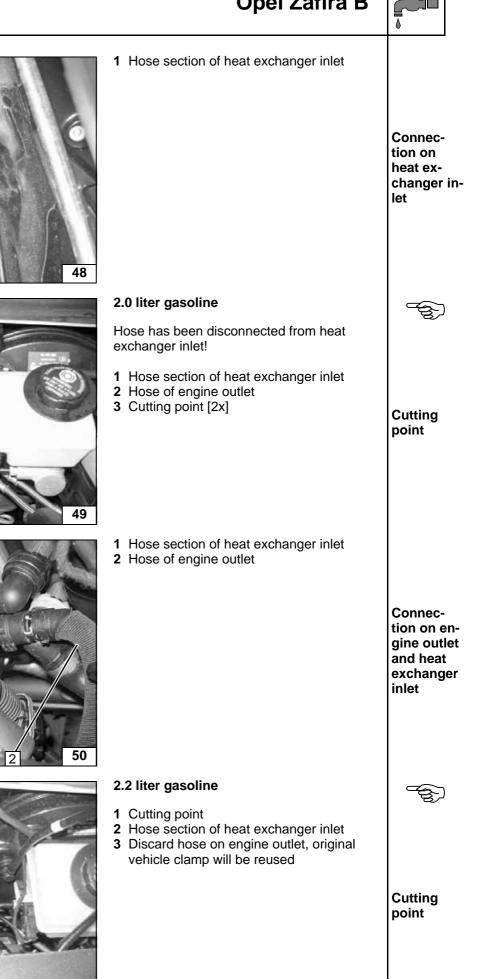


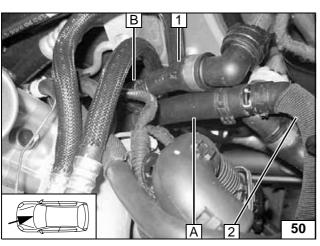
		Connec- tion to en- gine outlet
1	Hose section of heat exchanger inlet	Connec- tion on heat ex- changer in- let
1 2	8 liter gasoline Hose of engine outlet Cutting point Hose section of heat exchanger inlet	- fig-

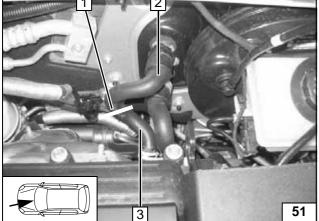
1 Hose of engine outlet

Connection to engine outlet

Cutting point

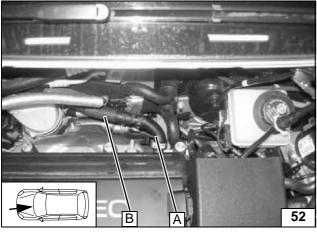


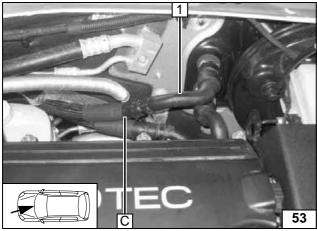


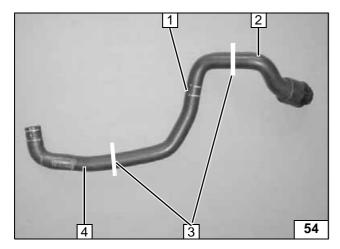




Connection to engine outlet





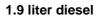


# В 55

1	Hose section of heat exchanger inlet	
---	--------------------------------------	--

Connection on heat exchanger inlet

Too .



Remove hose 1 from engine outlet/heat exchanger inlet.

- 3 Cutting point [2x]1 Discard hose section
- **2** Hose section of heat exchanger inlet
- 4 Hose of engine outlet

Cutting point

**Routing on** firewall

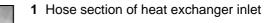
- Hose of engine outlet
   Spacer bracket

56

59

1

Connection to engine outlet

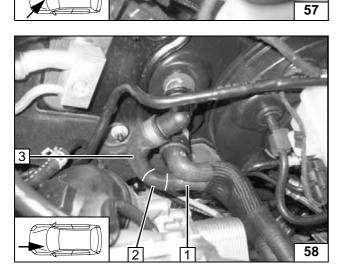


Connection on heat exchanger inlet

\$

Cutting

point



С,

# 1.7 liter diesel

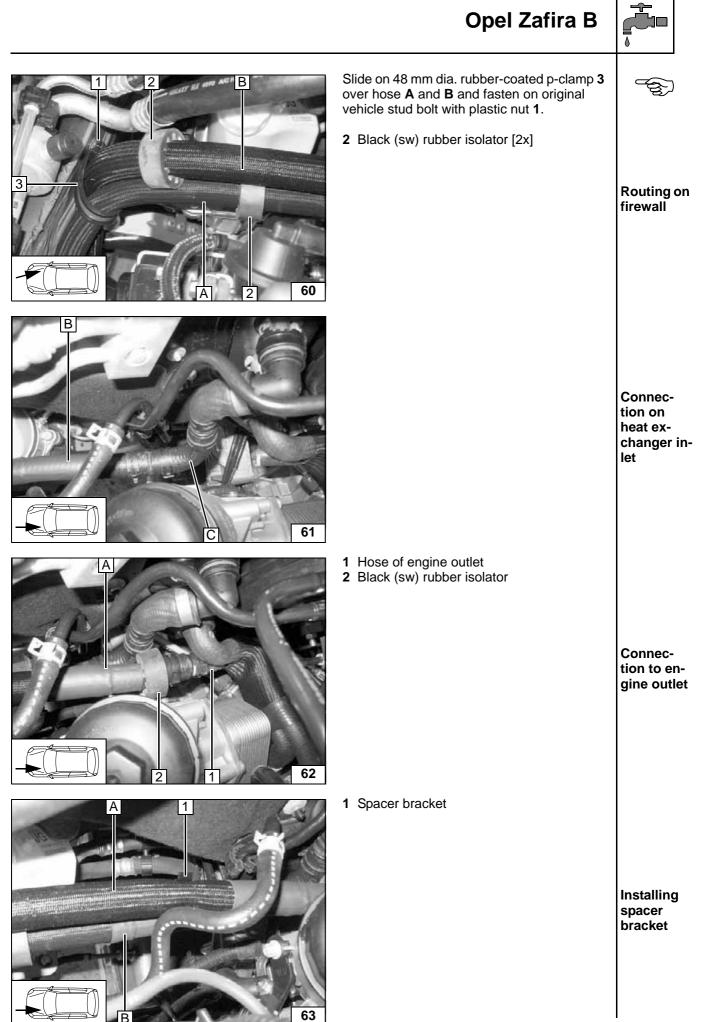
Cut off hose on engine outlet/heat exchanger inlet 1 at markings.

- 1 Engine-outlet hose section
- 2 Discard hose section
- 3 Remove hose section on heat exchanger inlet

Reinstall hose on heat exchanger inlet.

1 Hose section of heat exchanger inlet

Premounting hose C



# Fuel

# **CAUTION!**

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

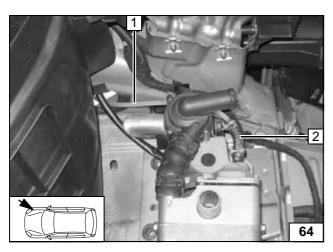
Catch any fuel running off with an appropriate container.

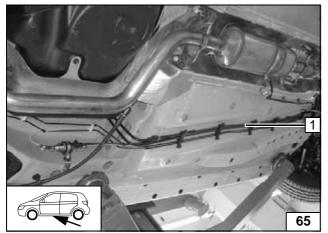
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

# WARNING!

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

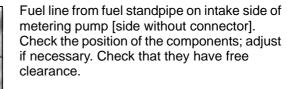
1 Mecanyl fuel line





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

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



3 Mecanyl fuel line

66

- 4 Hose section, 10 mm dia. hose clamp [2x]
- 2 Metering pump wiring harness
- 1 Plug-in contacts, single wire seal, connector housing

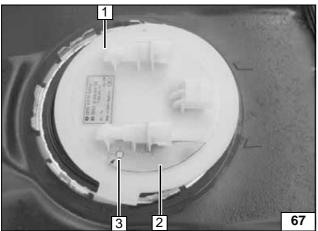


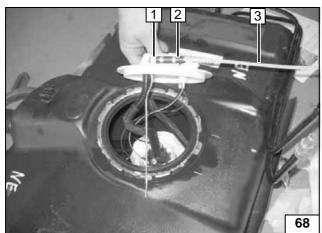


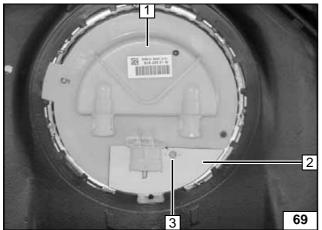


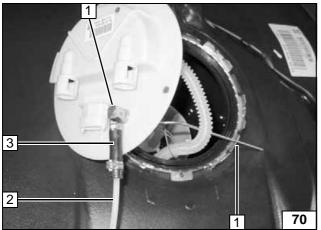
Connection to metering pump







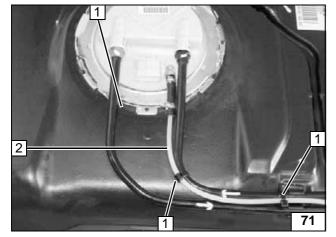


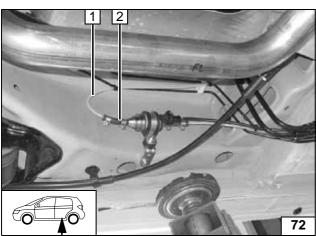


<ul> <li>All vehicles except 1.7 liter diesel</li> <li>Remove and dismantle fuel tank and fuel- tank sending unit 1 according to manufacturer's instructions.</li> <li>2 Cut out template and lay on</li> <li>3 Copy hole pattern, 6 mm dia. hole</li> </ul>	Removing fuel
<ol> <li>Fuel standpipe</li> <li>Hose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

Mounting fuel-tank sending unit

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





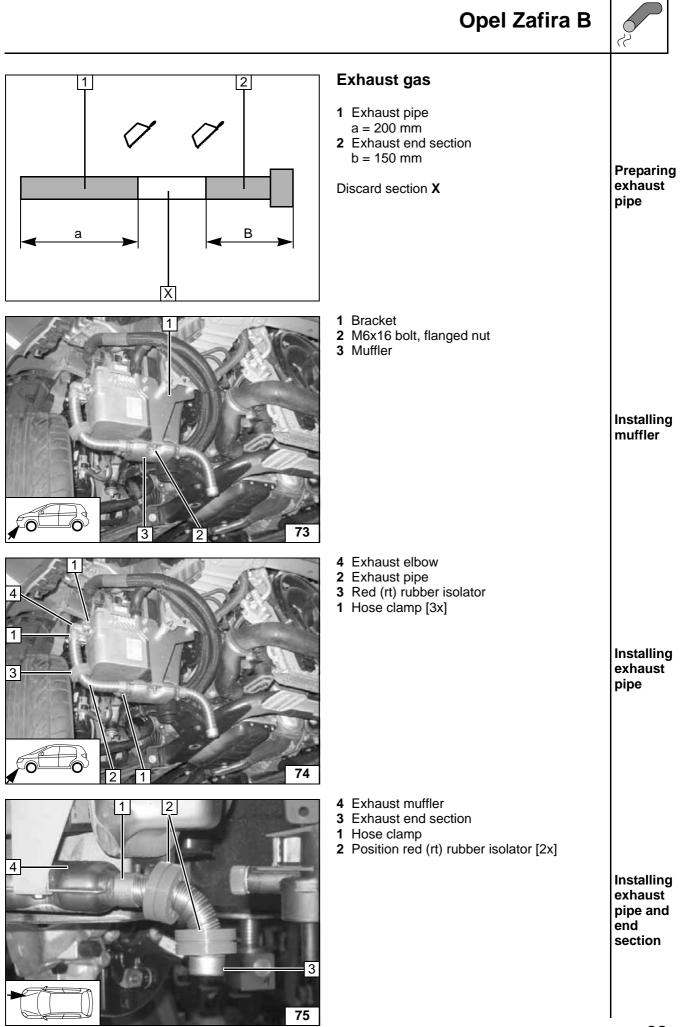
# All vehicles

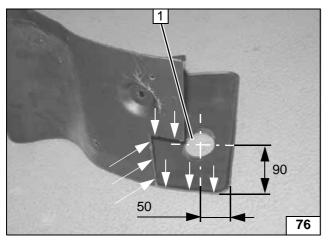
Route fuel line along original vehicle fuel lines to installation location of metering pump. Fuel line from fuel standpipe on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

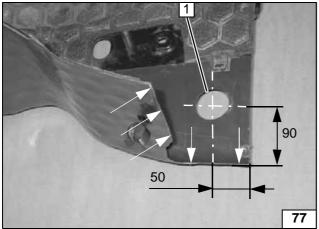
- 1 Fuel line
- 2 Hose section, 10 mm dia. hose clamp [2x]

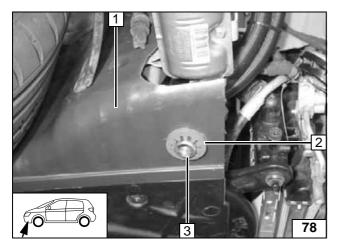


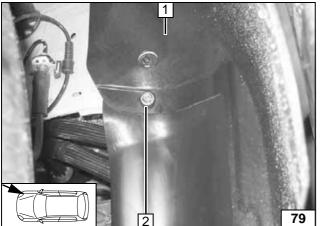
Connection to metering pump











# 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.





Webasto AG Postfach 80 - 82132 Stockdorf, Germany - Hotline +49-(0)1805-932278 Hotfax +49-(0)395-5592-353 - http://www.webasto.de

Printed in Germany 03



# **Template for Fuel Sender**

