

<b>D</b>	Änderungen bezüglich Konstruktion, Ausstattung, Farbe sowie Irrtum vorbehalten. Angaben und Abbildungen unverbindlich.	<b>D</b>	<b>Einbauanleitung</b>
<b>X</b> <b>GB</b>	Subject to change in terms of construction, equipment and colour, and may contain errors. The information and illustrations are non-binding.	<b>GB</b>	<b>Installation instructions</b>
<b>F</b>	Sous réserve de modifications de la construction, de l'équipement, de la couleur et sous réserve d'erreurs. Les indications et les illustrations sont sans engagement.	<b>F</b>	<b>Consignes de montage</b>
<b>NL</b>	Wijzigingen met betrekking tot constructie, uitvoering en kleur evenals vergissingen voorbehouden. Gegevens en afbeeldingen niet bindend.	<b>NL</b>	<b>Montagehandleiding</b>
<b>DK</b>	Ændringer med hensyn til konstruktion, udstyr, farver samt fejl forbeholdes. Oplysninger og illustrationer er uforpligtende.	<b>DK</b>	<b>Montagevejledning</b>
<b>N</b>	Endringer angående konstruksjon, utstyr, farge og feiltagelse forbeholdes. Opplysnings og illustrasjoner uforbindlig.	<b>N</b>	<b>Monteringsinstruksjon</b>
<b>S</b>	Med reservation för ändringar vad det gäller konstruktion, utrustning, färg samt för milsteg. Uppgifterna och bilderna är inte bindande.	<b>S</b>	<b>Installationsanvisning</b>
<b>FIN</b>	Pidätämme oikeuden rakennette, varustuuta, värin koekivin sekä erahdyksestä johtuvilin muutoksiin. Tiedot ja kuvat eivät ole siltovia.	<b>FIN</b>	<b>Asennusohje</b>
<b>I</b>	Con riserva di modifiche relative a progettazione, dotazione, colore ed errori. Le indicazioni e figure sono fornite senza impegno.	<b>I</b>	<b>Istruzioni per il montaggio</b>
<b>E</b>	Reservadas las modificaciones respecto a diseño, equipamiento, color, así como error. Indicaciones y figuras sin compromiso.	<b>E</b>	<b>Instrucciones de montaje</b>
<b>P</b>	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.	<b>P</b>	<b>InSTRUÇÕES DE MONTAGEM</b>
<b>GR</b>	Διατηρούμε τη δική μας επιφύλαξη ώστε προς αλλαγές σε σχέση με κατασκευή, εξοπλισμό, διαρρύθμιση, χρωματισμούς και λάθη παραδοροίμε.	<b>GR</b>	<b>Οδηγίες εγκατάστασης</b>
<b>CZ</b>	Změny, které jsou konstrukce, vybavení, barvy, jakož i omyley jsou vyhrazeny. Údaje a vyobrazení jsou nezávazné.	<b>CZ</b>	<b>Návod k montáži</b>
<b>PL</b>	Zasłezga się prawo do zmian dat konstrukcji, wyposażenia, kolorystyki oraz pomylek. Dane i ilustracje niezwłocznie.	<b>PL</b>	<b>Instrukcja montażu</b>
<b>TR</b>	Tasarım, donanım ve renk bakımından değişiklik yapma hakkı ve hata ve eksikslik mahfuzdur. Veriler ve resimler bağlayıcı değildir.	<b>TR</b>	<b>Montaj talimatı</b>
<b>H</b>	A szerkezet, a kivitel és a szín változtatása, valamint a változások jogára fenntartva. Az adatok és az ábrák nem kötelező érvényűek.	<b>H</b>	<b>Beépítési útmutató</b>
<b>HR</b>	Pravo promjena u svezi konstrukcije, opreme, boje kao i zabune ostavljavamo. Podaci i ilustracije su neobavezne.	<b>HR</b>	<b>Upute o ugradnji</b>
<b>BUL</b>	Запазени права по отношение на конструкцията, обзавеждането, цвета и грашки. Данните и изображенията не са обязательни.	<b>BUL</b>	<b>Инструкция за монтаж</b>
<b>RO</b>	Ne rezervăm dreptul unor modificări ale construcției, dotării, culorii și dreptul la erori. Datele indicate și imaginiile sunt orientative.	<b>RO</b>	<b>Instructiuni de montaj</b>
<b>RUS</b>	Права на внесение изменений относительно конструкции, оснащения, окраски, а также на ошибки сохраняются. Данные и иллюстрации имеют примерный характер.	<b>RUS</b>	<b>Инструкция по монтажу и установке</b>
<b>LT</b>	Pasiliukama konstrukcijos, įrangos bei reikmenų, spalvos pakelimių ir klaidų teisė. Duomenys ir iliustracijos nepareigojantys.	<b>LT</b>	<b>Montavimo informacija</b>
<b>LV</b>	Tiek paturētas tiesības uz konstrukciju, iekārtu, krāsu izmālījām, kā arī kļūdīšanu. Datī un attīlī bez saistībām.	<b>LV</b>	<b>Iemontēšanas pamācība</b>
<b>EST</b>	Konstruktsiooni, varustuse ja värvi osas muudatused ning eksilmise lubatud. Andmed ja joonised on millestuvad.	<b>EST</b>	<b>Paigaldusjuhend</b>
<b>SLO</b>	Zadržana pravica do sprememb glede konstrukcije, opreme, barve ter pomote. Podatki in slike so neobvezne.	<b>SLO</b>	<b>Navodilo za vgradnjo</b>
<b>SK</b>	Zmeny, ktoré sa týkajú konštrukcie, vybavenia, farby, ako aj omyley sú vyhrazené. Údaje a zobrazenia sú nezávazné.	<b>SK</b>	<b>Montážny návod</b>

# Air heater unit



Feel the drive

## Air Top 2000 ST D Additional Heater

e1

\*2001/56\*0022

## Installation Instructions

### Opel Vivaro Combi Opel Vivaro Tour Opel Vivaro Life

Diesel  
from Model Year 2007  
For left-hand drive vehicles only  
Not for vehicle with a 2nd heat exchanger



#### 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.

## Table of Contents

Validity	2	Electrical Connections	10
Foreword	2	Routing wiring harnesses	11
Heater Units/Delivery Scope	3	Telestart T100 HTM option	14
General Instructions	3	Installing bracket	16
Special Tools	3	Installing heater unit	16
Explanatory Notes on Document	4	Hot air system	18
Preliminary Work	5	Fuel Connection	22
Heater unit installation location	5	Exhaust system	25
Preparing air ducting	6	Combustion air	28
Preparing heater-unit wiring harness	9	Final Work	29

## Validity

Manufacturer	Model	Type	EG-BE No./ABE
Opel	Vivaro	X83	e1 *98 / 14 * 0170 ...

Engine type	Engine model	Output in kW	Displacement
M9R	Diesel	66	1995
M9R	Diesel	84	1995
G9U	Diesel	107	2463

## Foreword

These installation instructions apply to Opel Vivaro vehicles with Diesel engine from model year 2007 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded.

Vehicles and equipment variants not listed in these installation instructions have not been tested. However, installation according to these installation instructions may be possible. Depending on the version and equipment variants of the vehicle, changes compared to these "Installation Instructions" may be necessary during installation and must be adjusted accordingly.

However, where this is the case the stipulations in the "Installation Instructions" and "Operating and Maintenance Instructions" for the *Air Top 2000 ST* should be observed.

The installation location of heater controls and the routing of the air ducting parts must be coordinated with the final customer prior to installation!

## WARNING!

Original load-bearing components of the vehicle and/or components used for crash safety may not be modified for the routing of heating and ventilation system!

**Heater Units/Delivery Scope**

<b>Quantity</b>	<b>Description</b>	<b>Order No.:</b>
1	Specific Opel delivery scope AT2000 ST 12V D	1311064A

<b>Quantity</b>	<b>Description</b>	<b>Order No.:</b>
1	Installation kit for Opel Vivaro AT2000ST from Model Year 2007	1311322A

**To be ordered as an option:**

<b>Quantity</b>	<b>Description</b>	<b>Order No.:</b>
1	Telestart T100 HTM Opel Vivaro (Opel-OSV; Westfalia)	1311328A
or		
1	Telestart T100 HTM (Opel aftersales)	1303704B
1	Y-cable for Telestart for Air Top devices (Opel aftersales)	1311677A
1	Extension cable for T100 HTM temperature sensor (Opel aftersales)	1311816A

<b>Quantity</b>	<b>Description</b>	<b>Order No.:</b>
1	Installation frame for combination timer (can be ordered via Opel)	09 267 211
1	Air outlet panel (can be ordered via Opel)	09 267 212

**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).

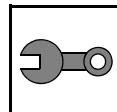
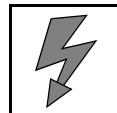
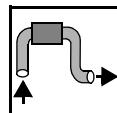
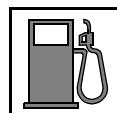
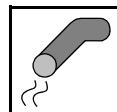
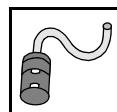
Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

**Special Tools**

- Torque wrench for 2.0 - 10 Nm
- Metric thread-setter kit
- Blind rivet tool
- Hole saw, 65 mm dia.

**Explanatory Notes on Document**

To provide you with a quick overview of the individual working steps, you will find an identification mark on the outside top right corner of the page in question.

**Mechanical work****Electrical system****Hot air system****Fuel connection****Exhaust system****Combustion air**

Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



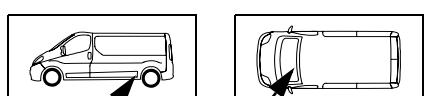
Specific risk of fire or explosion.



Reference to general installation instructions of Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.



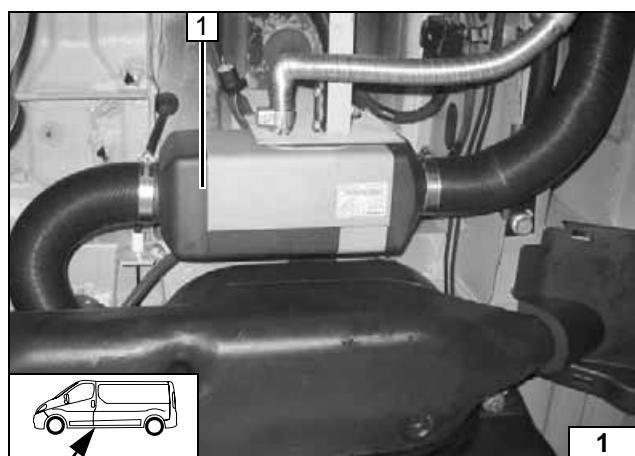
The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

## Preliminary Work

### WARNING!



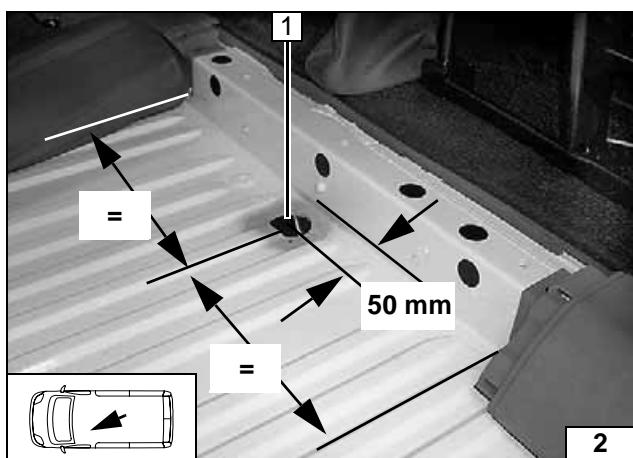
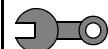
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- If installed, remove the seat row behind the driver's seat
- If installed, , remove the floor covering of the entrance strips for the sliding door
- Remove the floor covering behind the driver's seat
- Remove the driver's seat
- Remove the floor covering on the service cover
- Remove the battery cover in the driver's side footwell
- Disconnect the battery "earth" or "ground" connection.
- Remove the cover of the air guide behind the driver's/front passenger seat
- Remove the entrance trim pieces on the driver's side
- Unclip the interior light above the driver's seat
- Remove the A-pillar trim on the driver's side
- Remove the sun vizor on the driver's side
- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.



**Heater unit installation location**

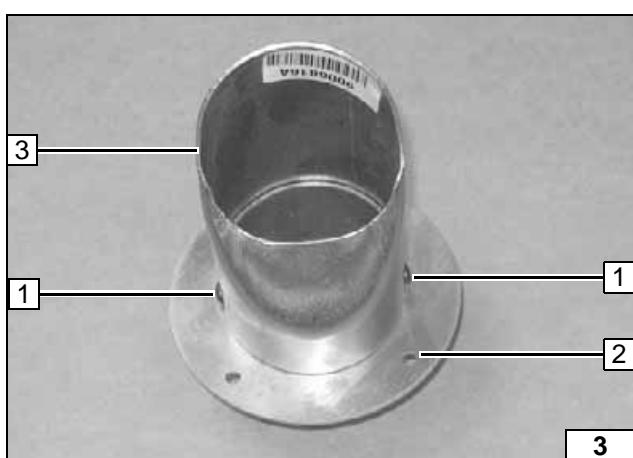
1 Heater unit

Installation location

**Preparing air ducting**

Drill 65 mm dia. hole **1** in center of floor panel.

Copying  
hole pat-  
tern

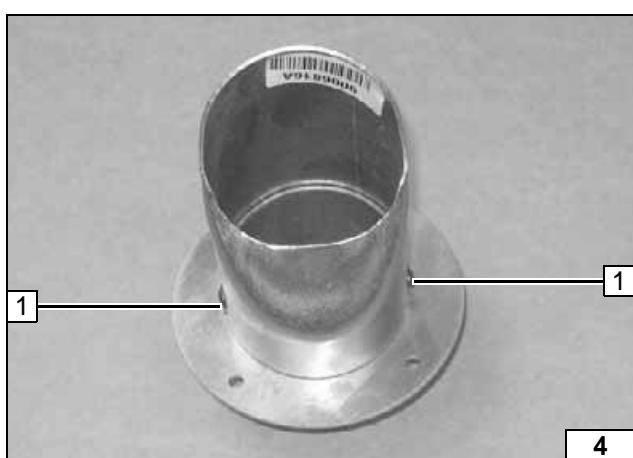


Position air outlet **3** on wall fitting **2** and align as shown.

3 mm dia. holes [2x] **1** Ø for self-tapping screws

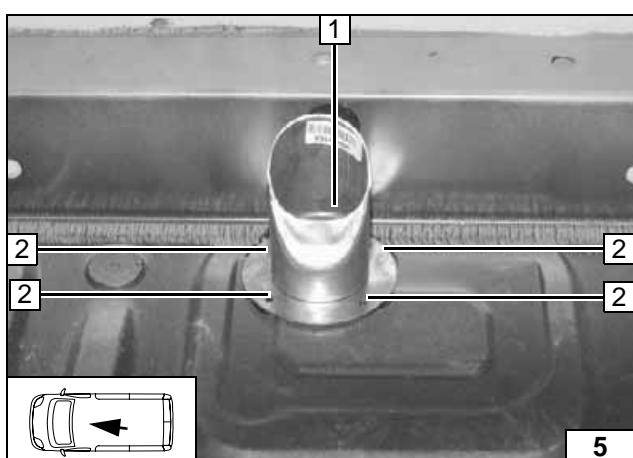


Preassem-  
bling air  
outlet



**1** Self-tapping screw [2x]

Preassem-  
bling air  
outlet

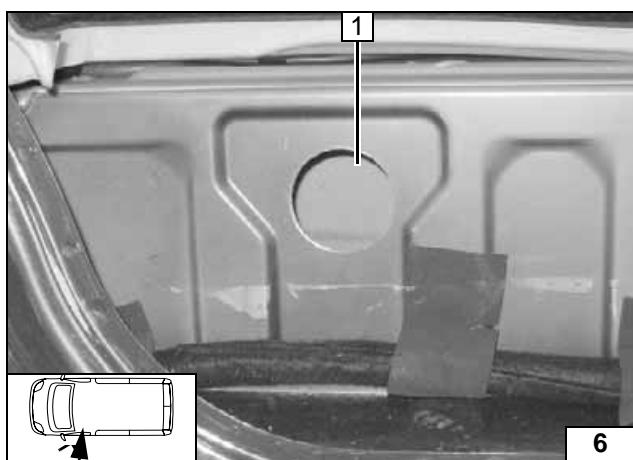
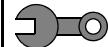


Insert preassembled air outlet **1** in 65 mm dia. hole, align and copy hole pattern **2** for 5 mm dia. hole [4x].

Apply corrosion protection to holes!  
Air outlets will be installed later!



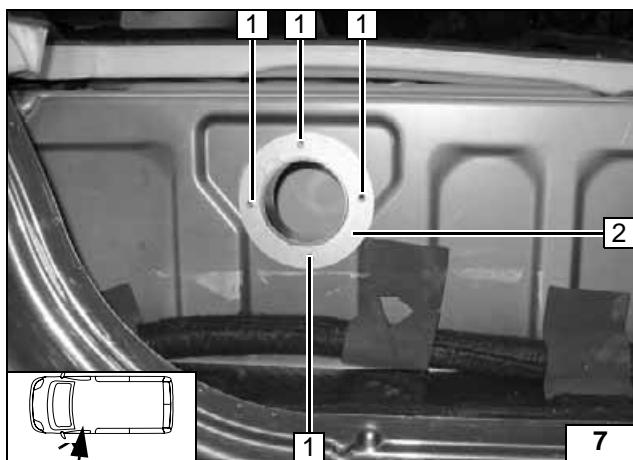
Copying  
hole pat-  
tern



Drill 65 mm dia. hole **1** in center of bead on driver's entrance.



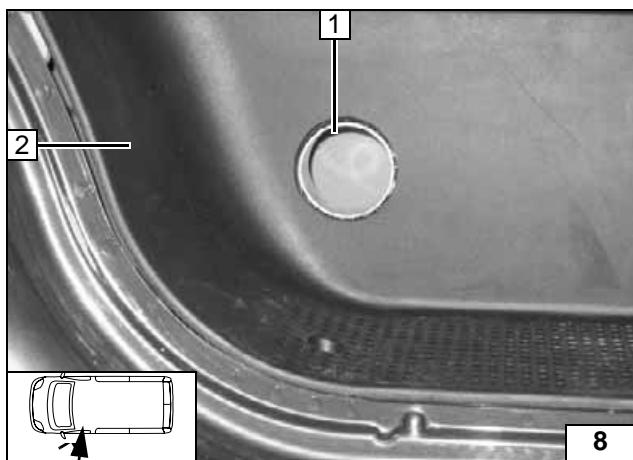
**Copying hole pattern**



Insert 60/60 wall fitting **2** in hole, align and copy hole pattern for 5 mm dia. hole **1** [4x]. Apply corrosion protection to holes!



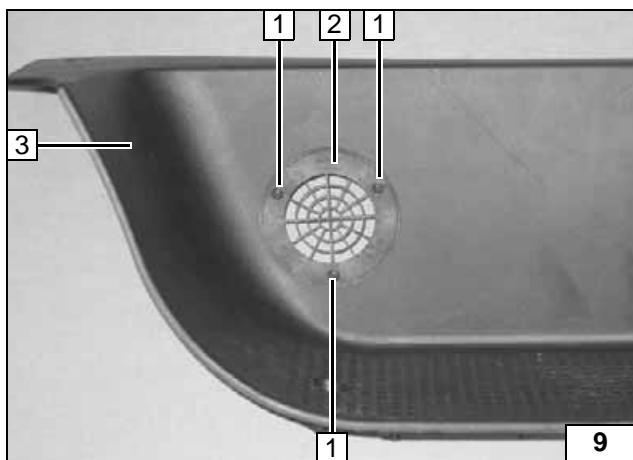
**Copying hole pattern**



Mount trim on driver's entrance **2** and copy hole pattern **1** for 65 mm dia. hole in trim **2** from behind.



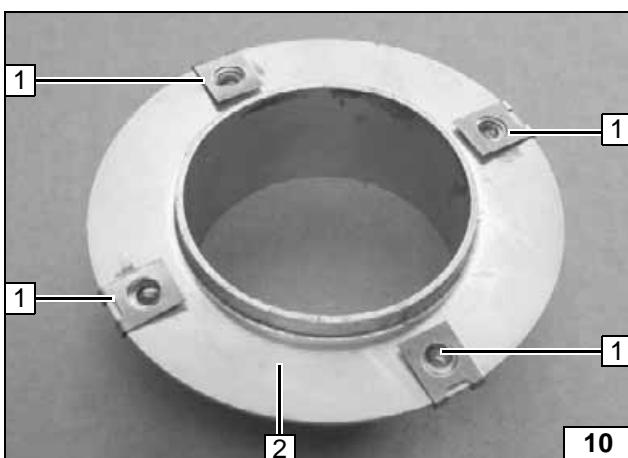
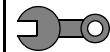
**Copying hole pattern**



Align air outlet **2** as shown and copy hole pattern **1** for 2.5 mm hole.  
Fasten air outlet **2** to trim **3** with self-tapping screws [3x].  
Trim will be installed later!



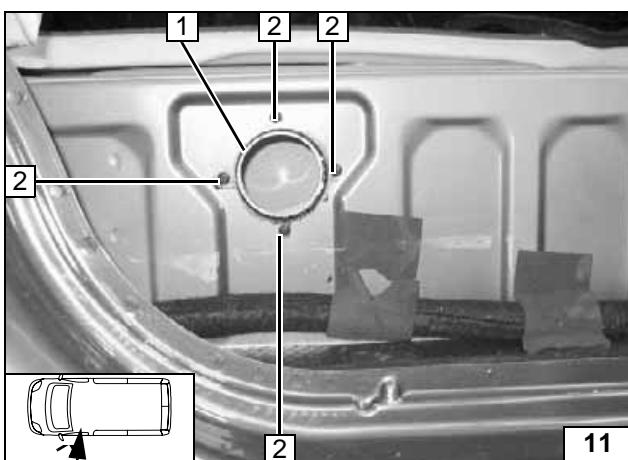
**Installing air outlet**



Push plate nuts 1 [4x] onto wall fitting 2.



Preassembling wall fitting

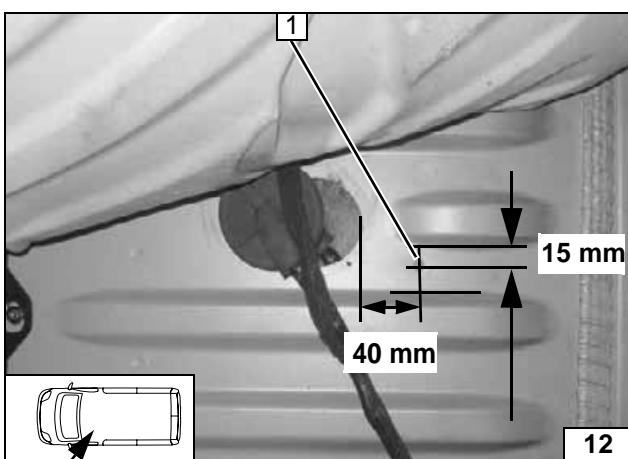


Provide wall fitting 1 with sealing compound and insert into 65 mm dia. hole from behind.

2 Self-tapping screw [4x]



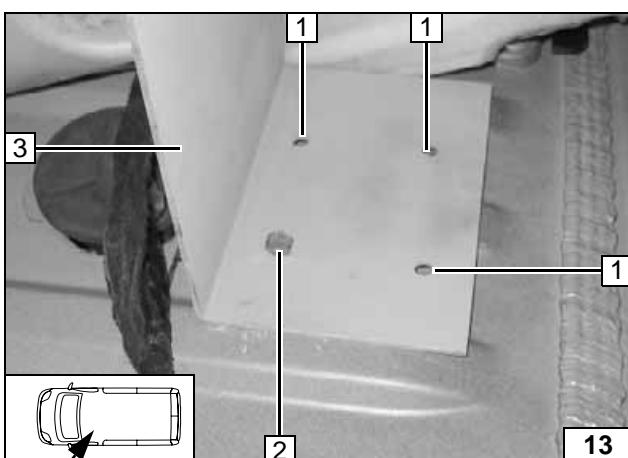
Installing wall fitting



Hole pattern 1 for 6.5 mm dia. hole



Hole pattern for heating unit bracket

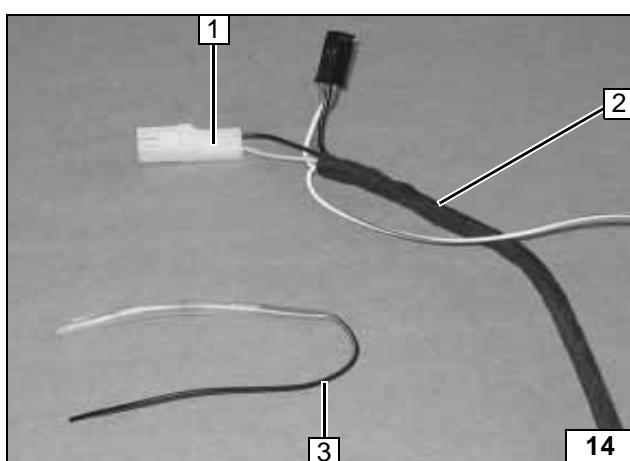


Align heating unit bracket 3 with bolt 2 as shown and fasten with M6x20 2 bolt  
Apply corrosion protection to holes!

1 6.5 mm dia. hole [3x]



Hole pattern for heating unit bracket

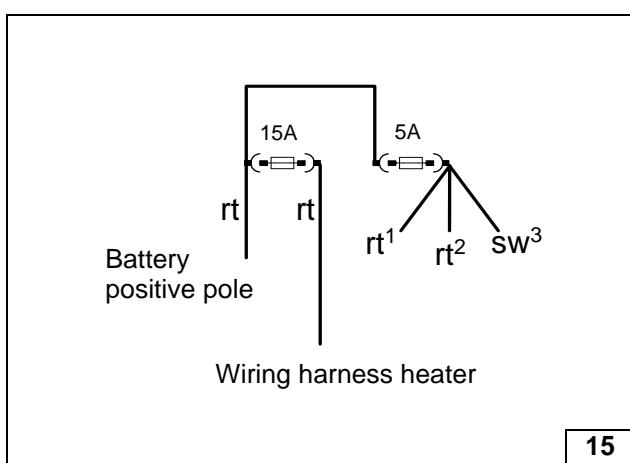


### Preparing heater-unit wiring harness

Cut internal resistor **3** off wiring harness **2** and install connector **1** provided.



**Connection of AT2000ST temperature sensor**



Connect 5 A and 15 A fuse accordingly with accessories provided.



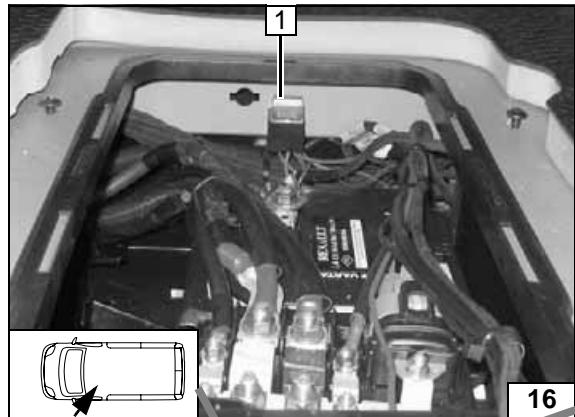
**Connection of fuse**



## Electrical Connections

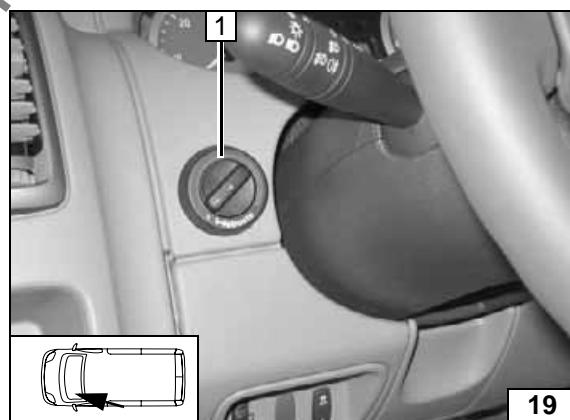
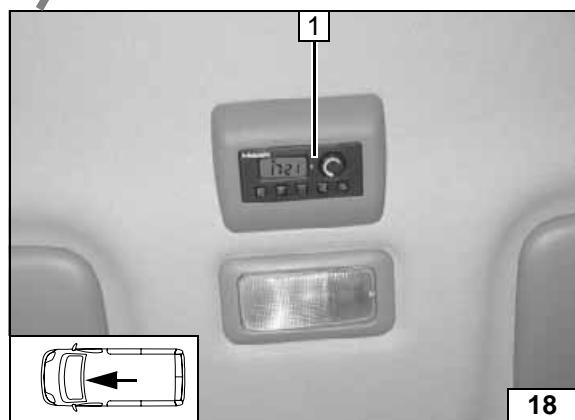
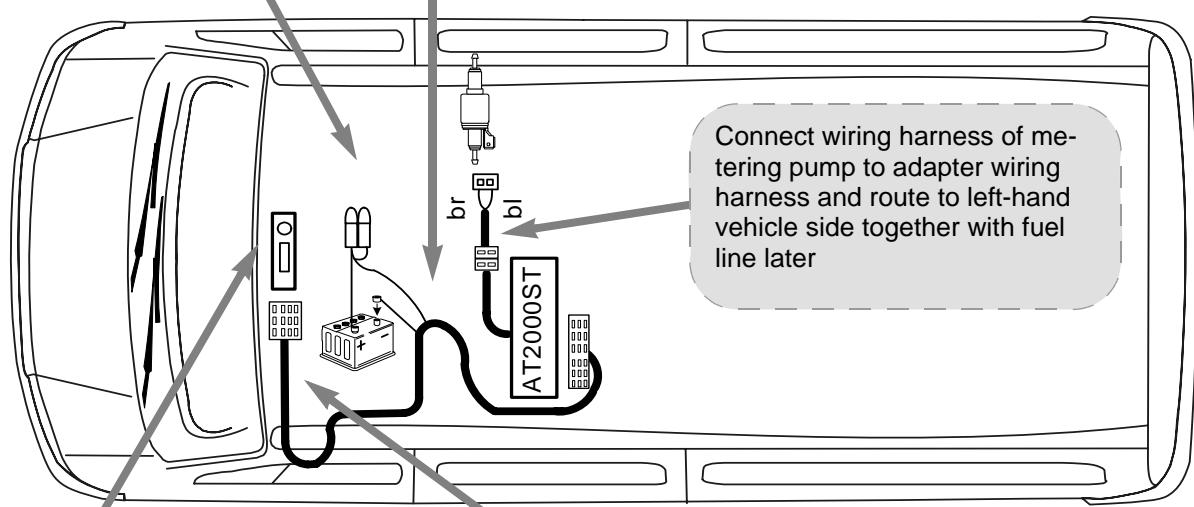
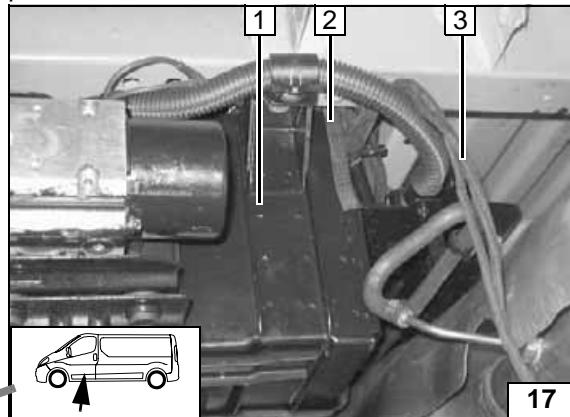
### Fuse holder

1 2.5 mm dia. hole, fuse holder



### Wiring harness pass through

Route wiring harness of heater unit 3 out of battery box 1 to underbody, 100 mm edge protection 2



### Heater control

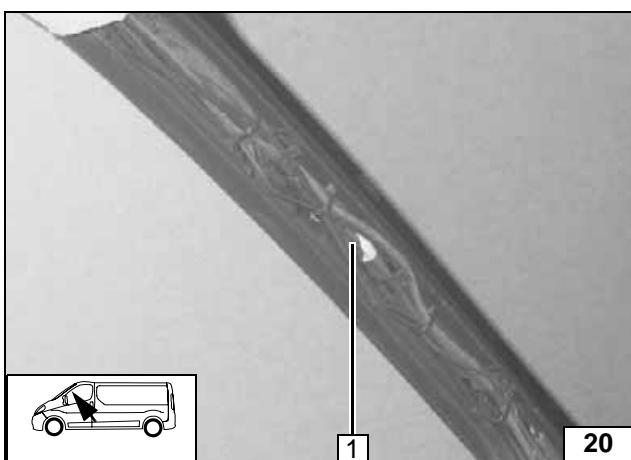
1 Combination timer, installation frame

### Heater control

1 Switch



**Wiring harness installation diagram**



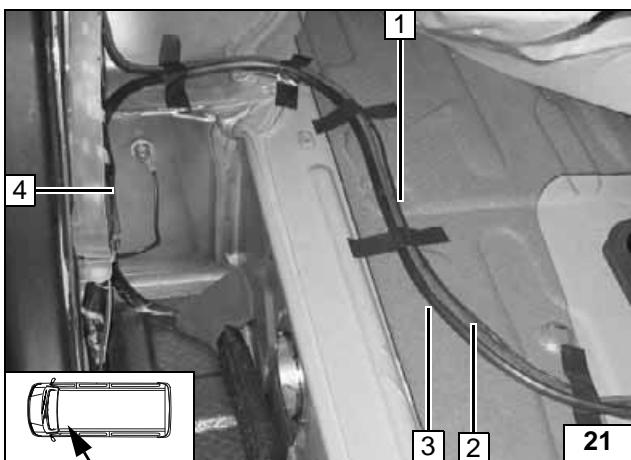
## Routing wiring harnesses

Only with digital timer!

Observe connection diagram on page 13 and 15.

Route wiring harness from heater control along original vehicle wiring harnesses on left-hand A-pillar to entrance.

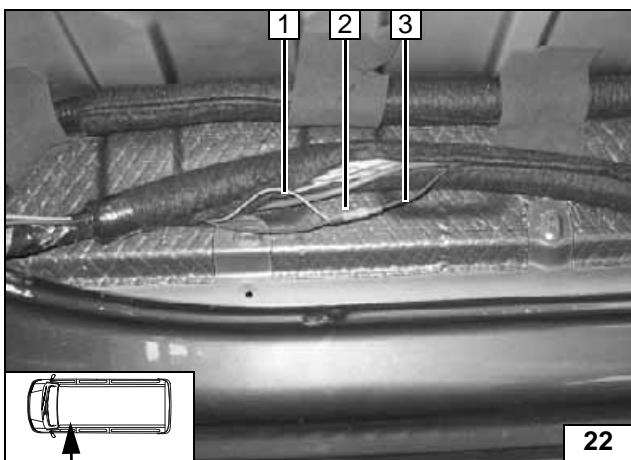
**Routing  
wiring har-  
ness**



Secure wiring harnesses with installation strap.

- 1** Power supply cable only with Telestart T100 option
- 2** Wiring harness of heater unit
- 3** Wiring harness of combination timer, protective sleeving
- 4** Gray (gr) wire from combination timer, wiring harness of AT2000ST temperature sensor

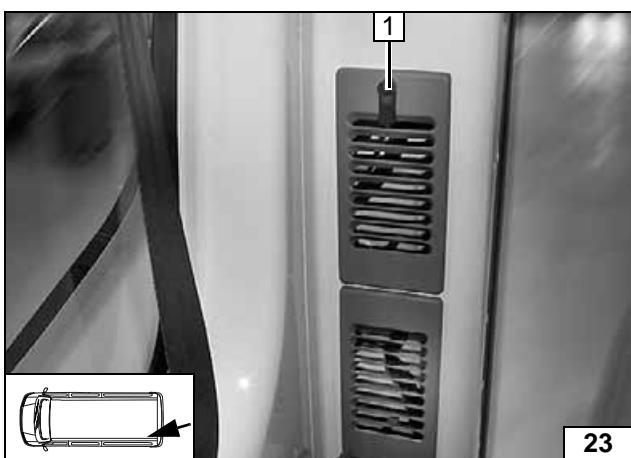
**Routing  
wiring har-  
ness**



Check blue (bl) original vehicle wire Ter. 58 before connection.

- 1** Gray (gr) wire from combination timer
- 1** Blue (bl) connector
- 1** Blue (bl) line Ter. 58

**Connec-  
tion of Ter.  
58 for com-  
bination  
timer**

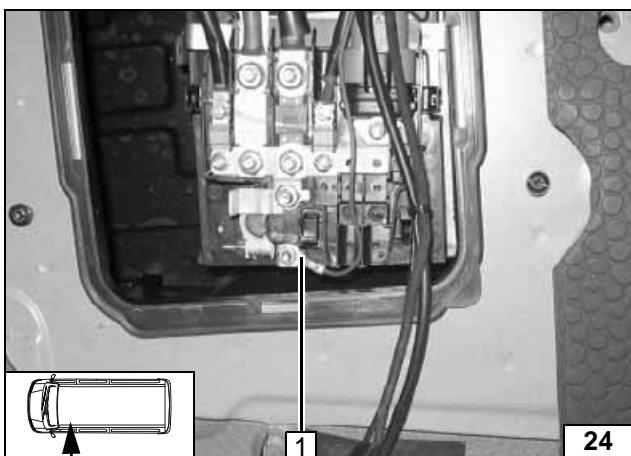


Route wire from temperature sensor from installation location of digital timer via original vehicle headliner to installation location of temperature sensor.

Installation location of temperature sensor **1** is a recommendation. Please coordinate installation location with customer prior to installation.

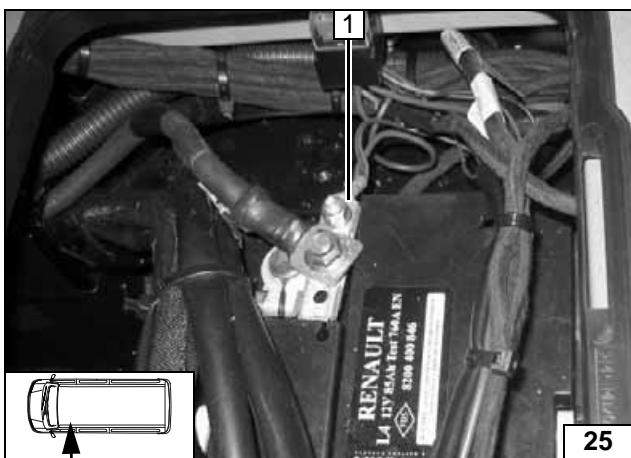


#### Installing temperature sensor



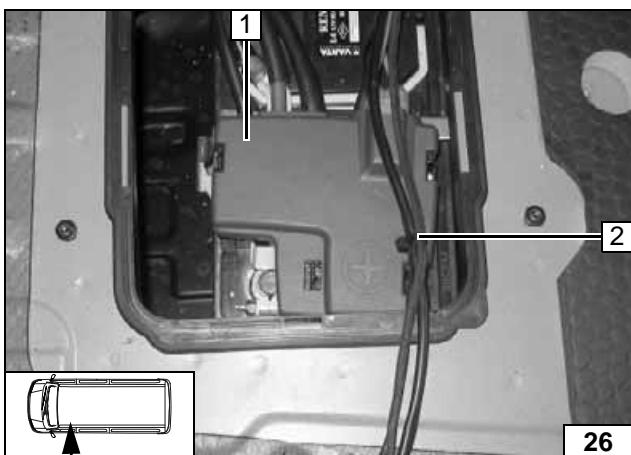
**1** Red (rt) wire, claw cable lug, M6 flanged nut

#### Connection to positive battery terminal



**1** Brown (br) wire, claw cable lug, M6 flanged nut

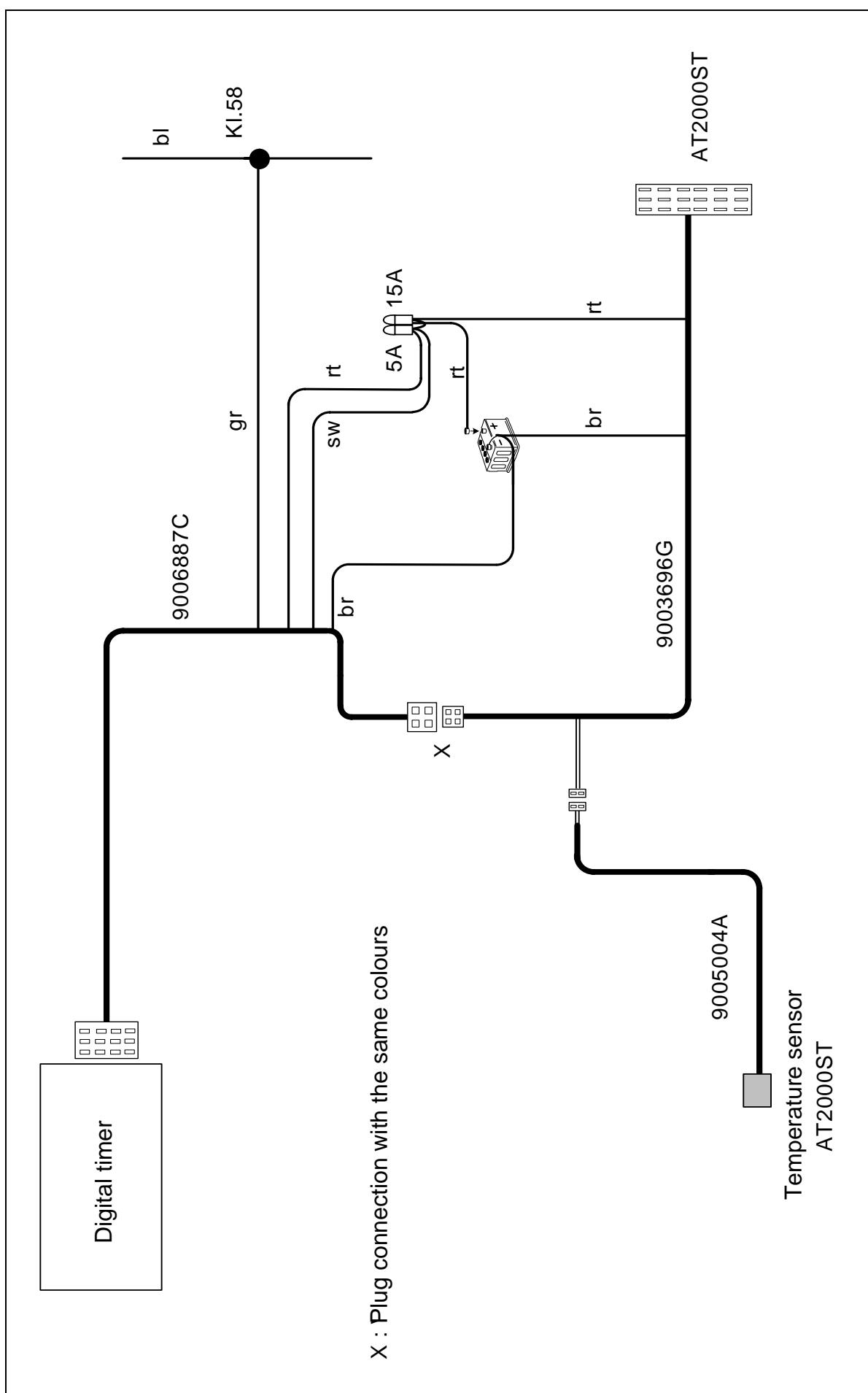
#### Connection to negative battery terminal

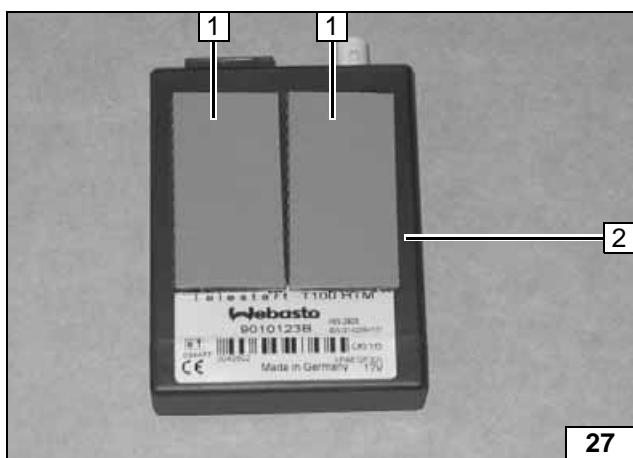


Remount cover **1**, route cable **2** as shown and secure with cable ties.



#### Installing positive terminal cover

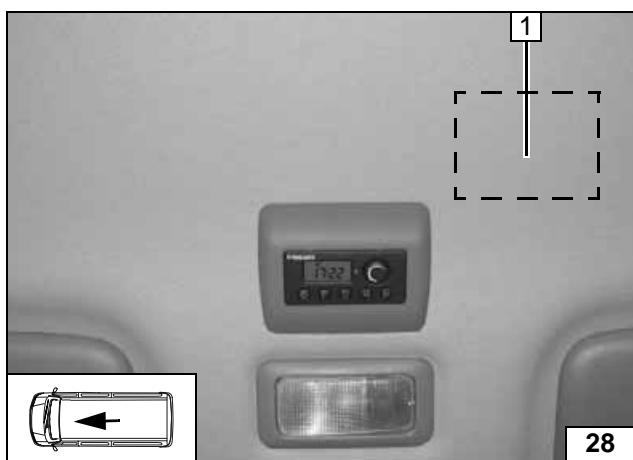


**Telestart T100 HTM option**

- 1 Self-adhesive Velcro strip [2x]
- 2 T100 HTM receiver



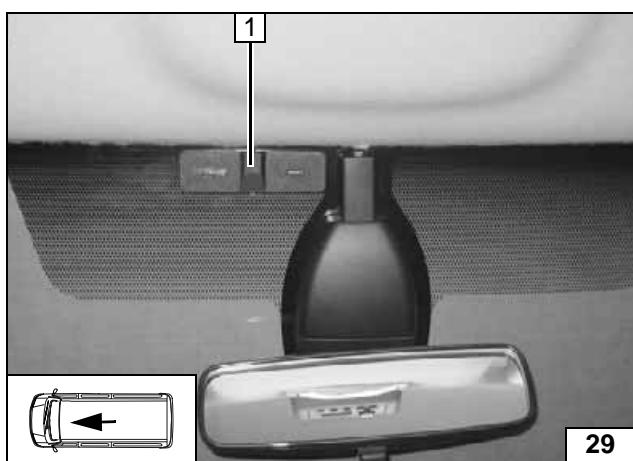
Installing receiver



Receiver 1 fastened on inside of headliner  
with Velcro strip [2x]



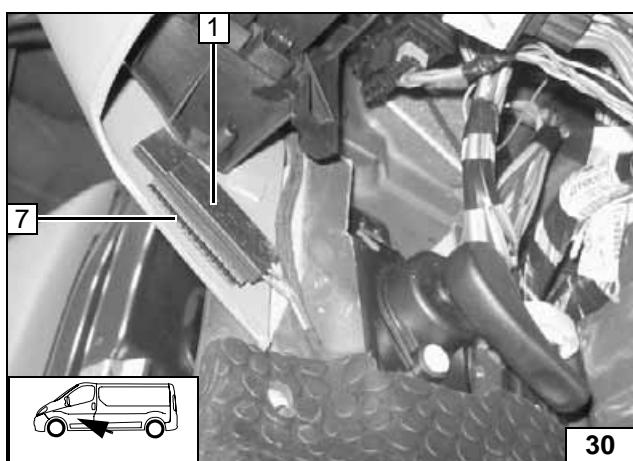
Installing receiver



- 1 Antenna

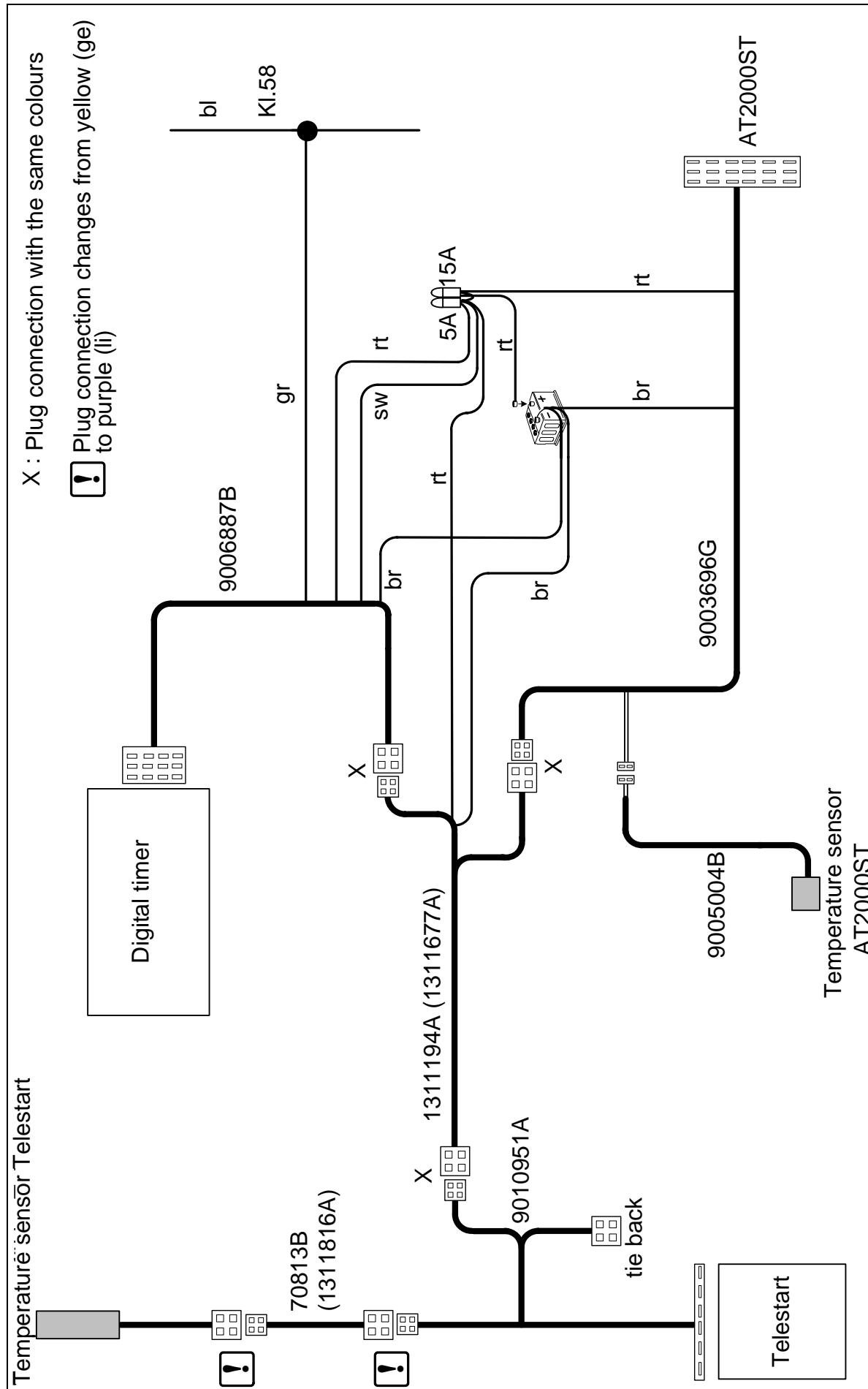


Installing antenna

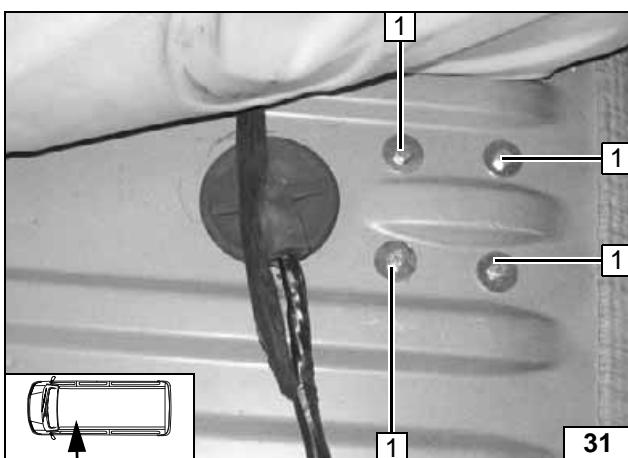


- 1 Temperature sensor
- 2 Self-adhesive Velcro strip

Installing  
T100 tem-  
perature  
sensor

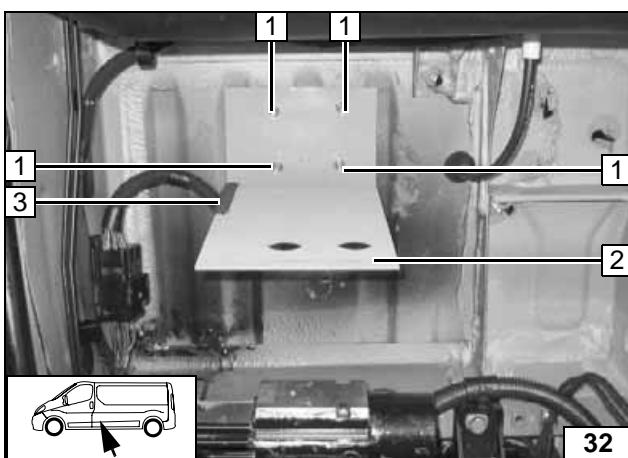


Connection Diagram for Combination Timer and Tele-start T100

**Installing bracket**

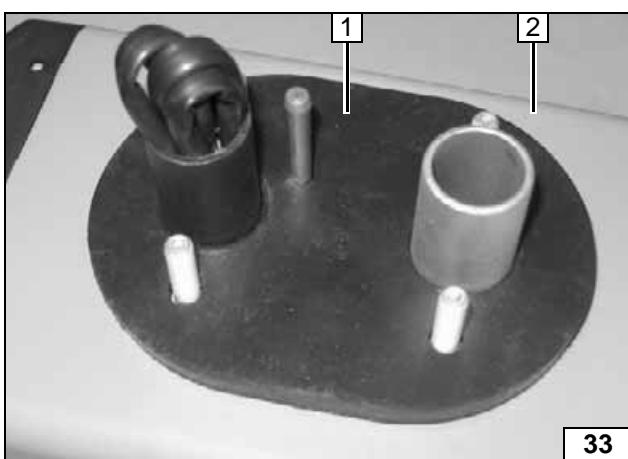
- 1 M6x20 bolts [4x], large diameter washers [4x]

Installing bracket



- 1 M6 flanged nut [4x]  
2 Bracket  
3 100 mm edge protection section

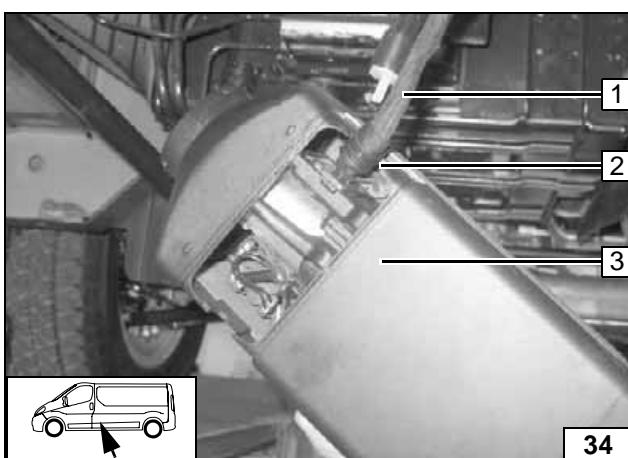
Installing bracket

**Installing heater unit**

Install rubber gasket 1 on heater unit 2 as shown.



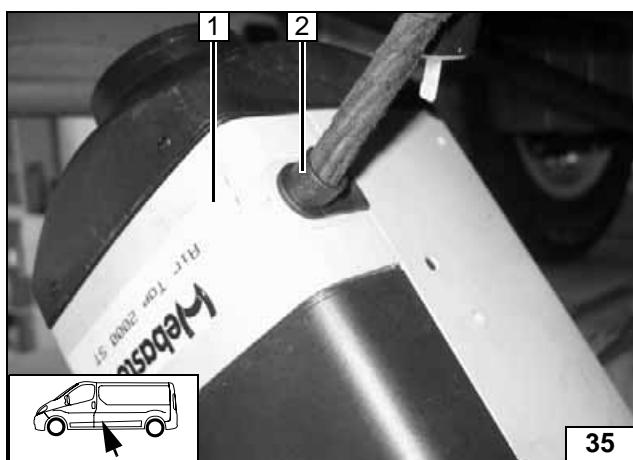
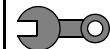
Installing heater unit



Connect heater unit connector from wiring harness 1 to heater unit 3 and align grommet 2.



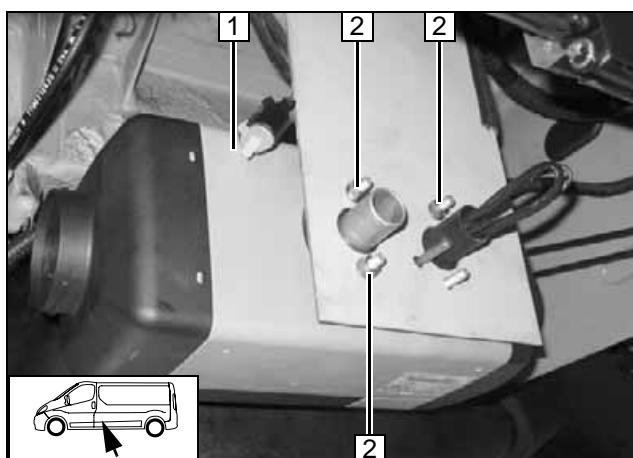
Installing heater unit



Install wiring harness grommet **2** in cover **1**.

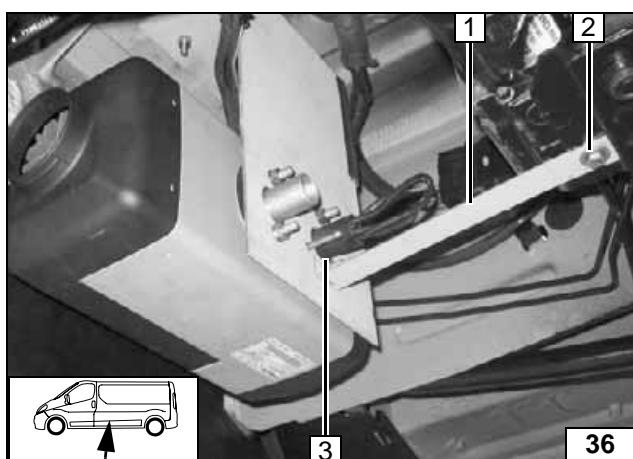


Installing heater unit



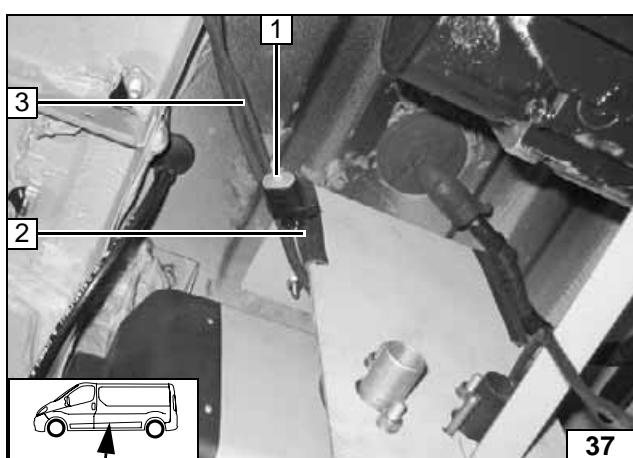
**1** Heater unit  
**2** M6 flanged nut [3x]

Installing heater unit



**1** Strut  
**2** Original vehicle bolt  
**3** M6 flanged nut

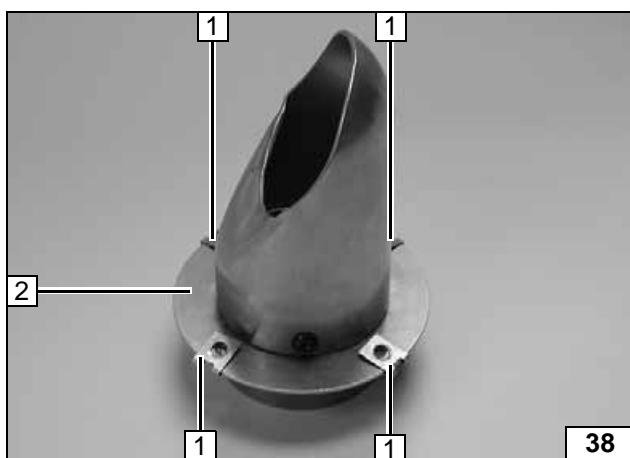
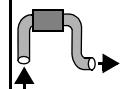
Installing strut



Secure diagnosis connector **1** on wiring harness **3** of heater unit with cable tie.

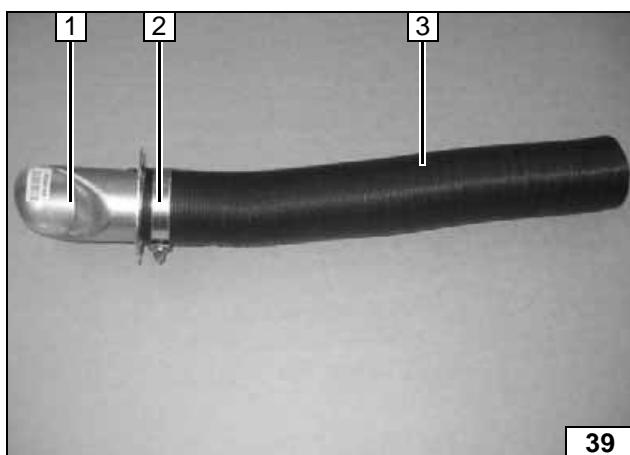


**2** 100 mm edge protection section

**Hot air system**

- 1 Plate nut [4x]  
2 Wall fitting

Preassem-  
bling wall  
fitting

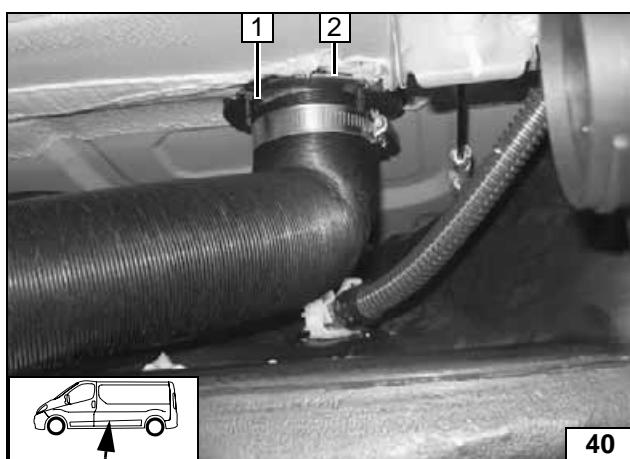


Provide wall fitting 1 with sealing compound.



- 2 50/70 mm dia. hose clamp  
3 60 mm dia. flexible pipe, 400 mm long

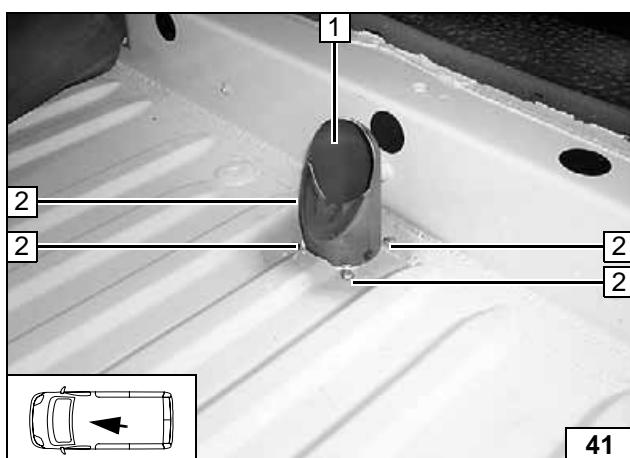
Preassem-  
bling hot  
air hose



Guide preassembled wall fitting 1 through 65 mm dia. hole 2 into passenger compartment.



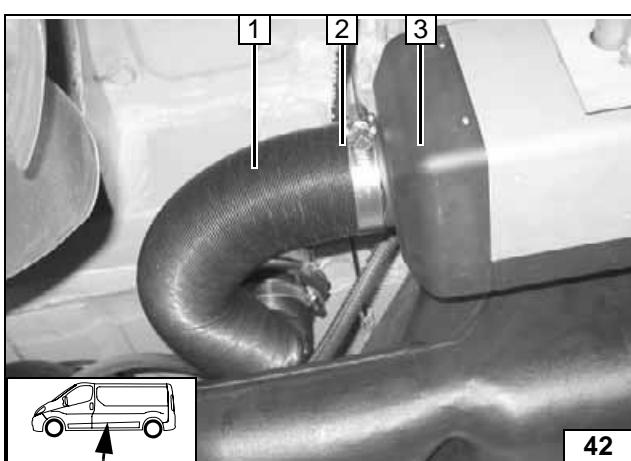
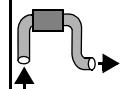
Routing  
through  
into pas-  
senger  
compart-  
ment



Position wall fitting 1 with hot air outlet toward rear and align with 5 mm dia. holes [4x] and install with self-tapping screws 2 [4x].



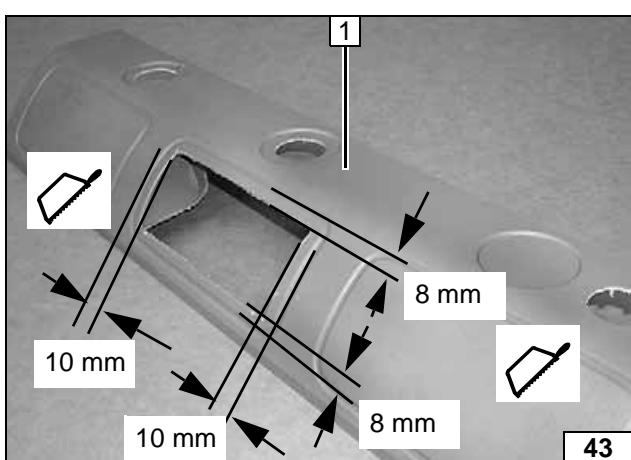
Installing  
wall fitting



- 1 60 mm dia. flexible pipe, 400 mm long  
2 50/70 mm dia. hose clamp  
3 Heater unit (hot air outlet)



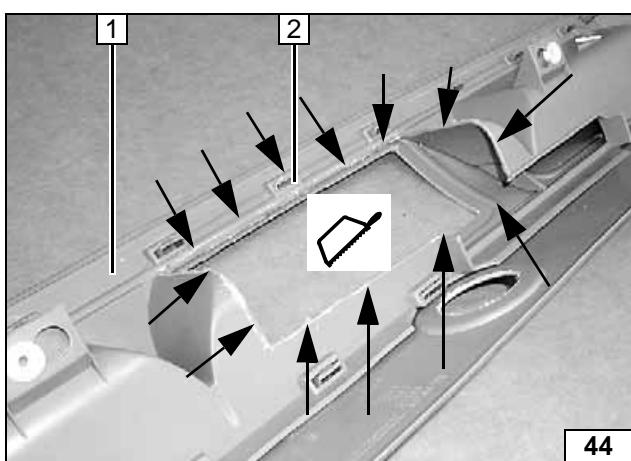
Connec-  
tion on  
heater unit



Cut out cover of air duct 1 as shown!



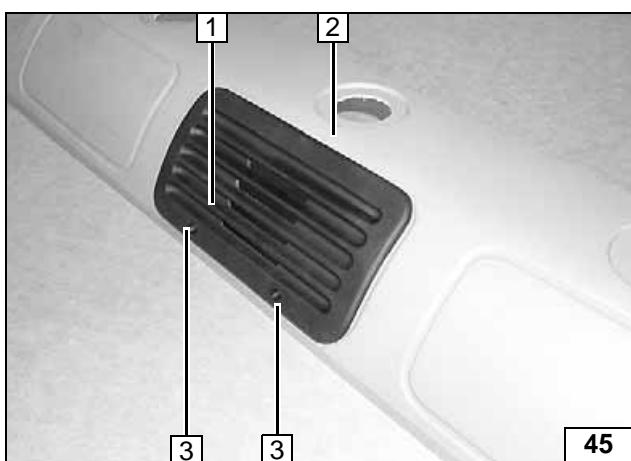
Preparing  
air duct



Cut out back of cover for air duct 1 as shown  
and cut off fastening clip 2.



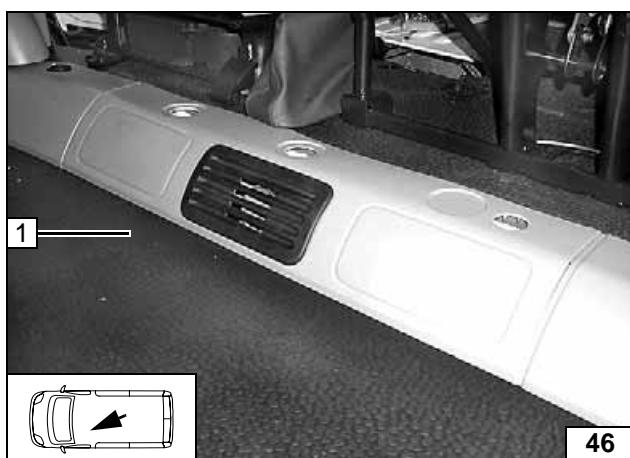
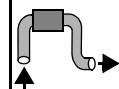
Preparing  
air duct



Insert outlet plate 1 with retaining claws up-  
ward into cover 2 and center.  
Copy hole pattern 3 [2x] for 2.5 mm dia.  
hole [2x].



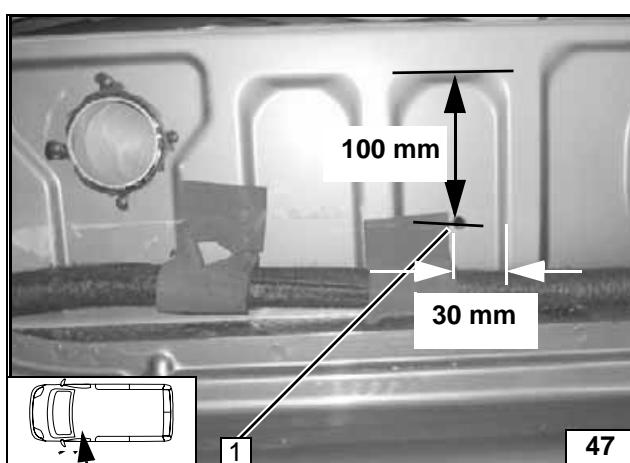
Installing  
outlet plate



If floor covering **2** is installed in area of hot air ducting, cut out in area of hot air ducting.

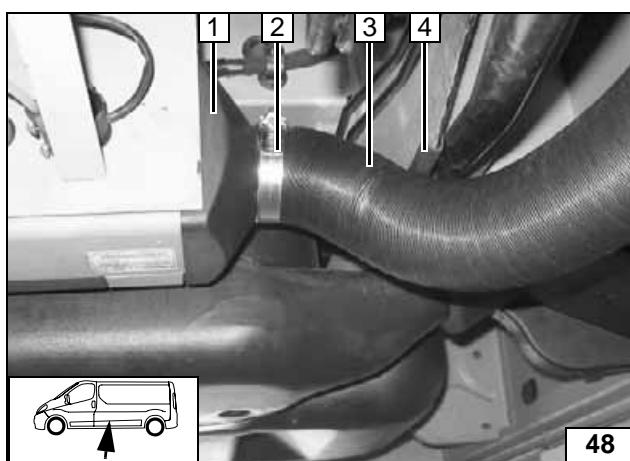


#### Installing air duct



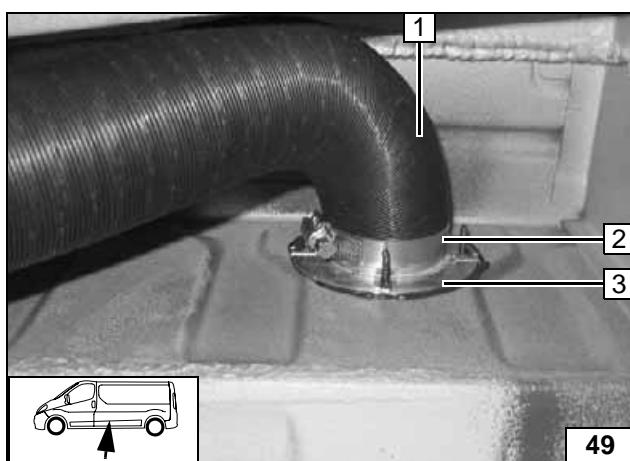
**1** 5 mm dia. hole

#### Preparing routing of hot-air intake hose



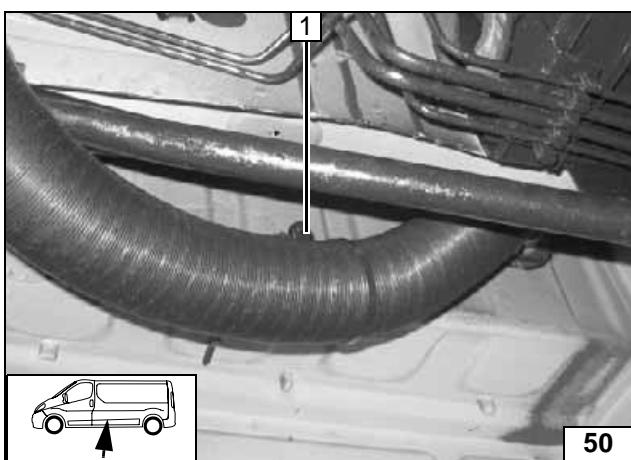
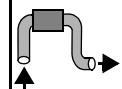
- 1** Heater unit (intake side)
- 2** 50/70 mm dia. hose clamp
- 3** 60 mm dia. flexible pipe, 830 mm long
- 4** 100 mm long edge protection section

#### Connection on heater unit



- 1** 60 mm dia. flexible pipe, 830 mm long
- 2** 50/70 mm dia. hose clamp
- 3** Wall fitting

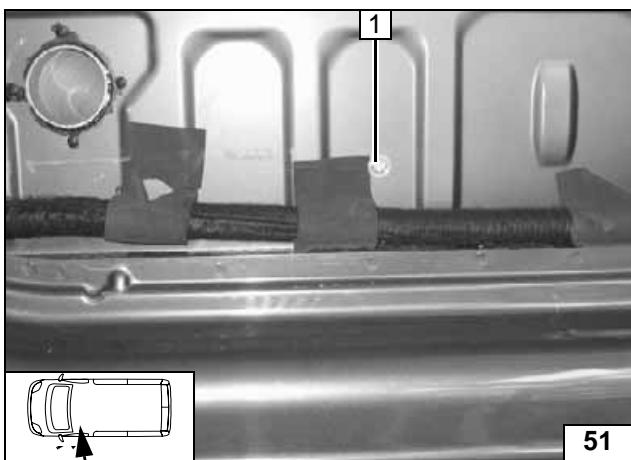
#### Connection to wall fitting



Premount cable tie (screwable) 1 as shown



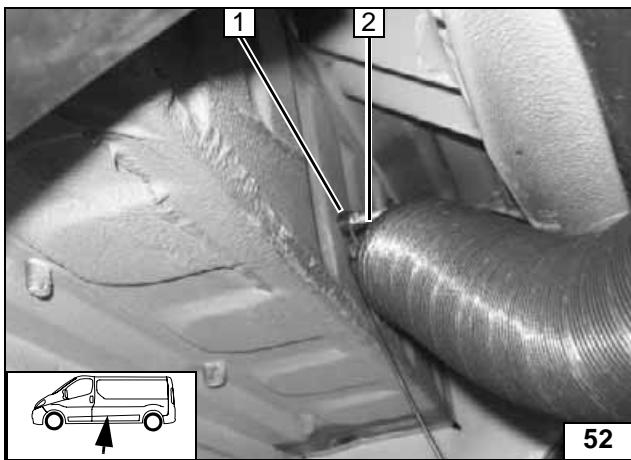
Routing hot-air intake hose



Insert M5x20 bolt 1, large diameter washer through hole.



Fastening hot-air intake hose



- 1 Cable tie (screwable)
- 2 M5x20 bolt, M5 flanged nut

Routing to pass through into passenger compartment



## Fuel Connection

### CAUTION!

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

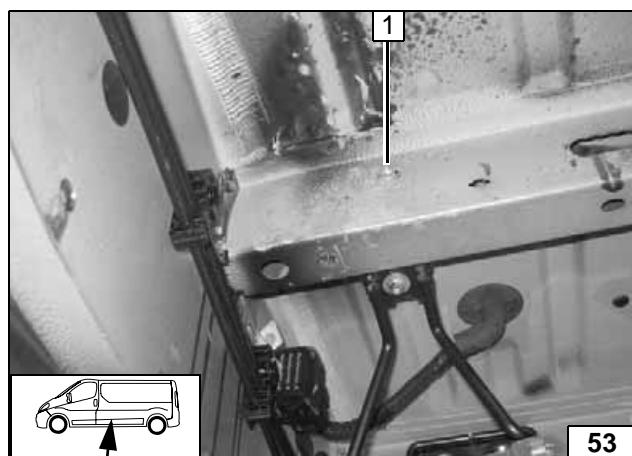
Catch any fuel running off with an appropriate container.

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.

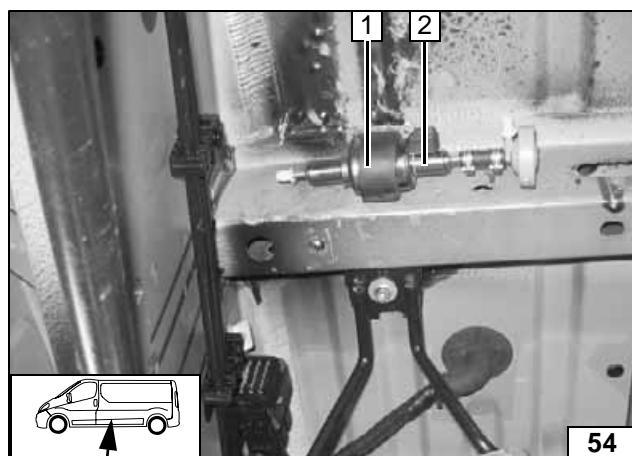
### WARNING!

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



1 M6 rivet nut, existing hole

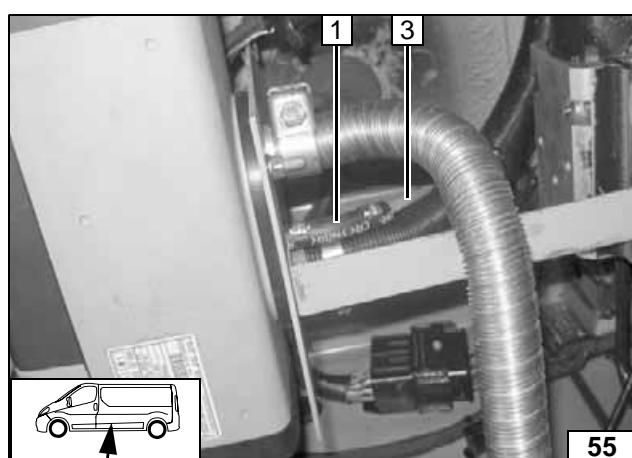
Installing metering pump



1 Metering pump bracket, spring lockwasher, washer, M6x30 bolt  
2 Metering pump

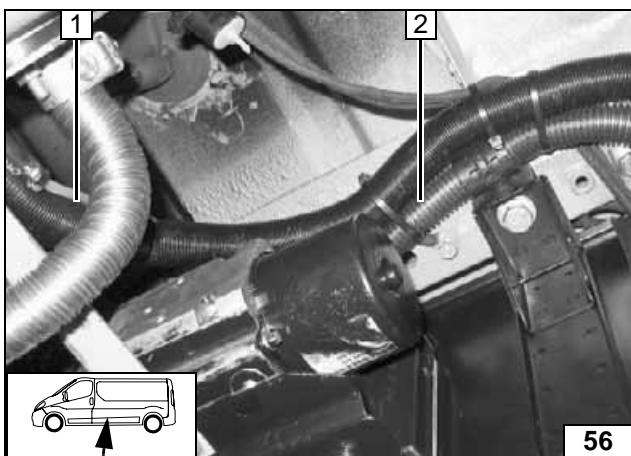


Installing metering pump



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

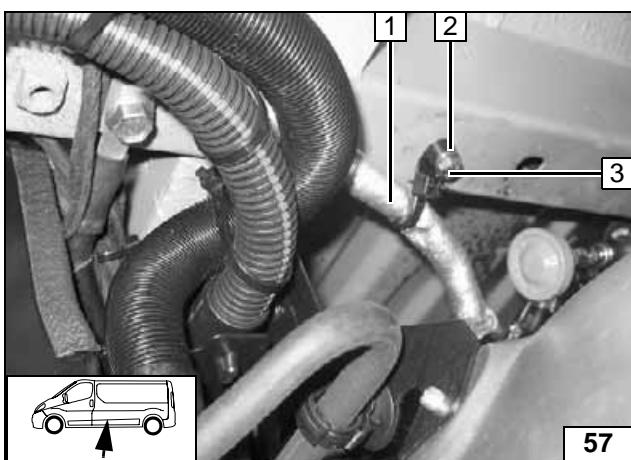
Connection on heater unit



Route fuel line **1** and metering-pump adapter line along original vehicle line **2** and secure with cable ties



#### Fuel line Routing metering pump line

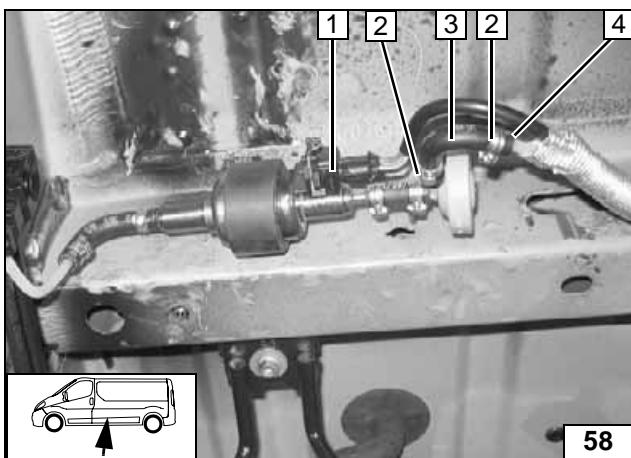


Pull fuel line and metering pump line into 14.5 mm dia. flexible pipe **1** and route to metering pump.

- 2** Cable tie (screwable)
- 3** M6x35 bolt, spring lockwasher, washer



#### Fuel line Routing metering pump cable

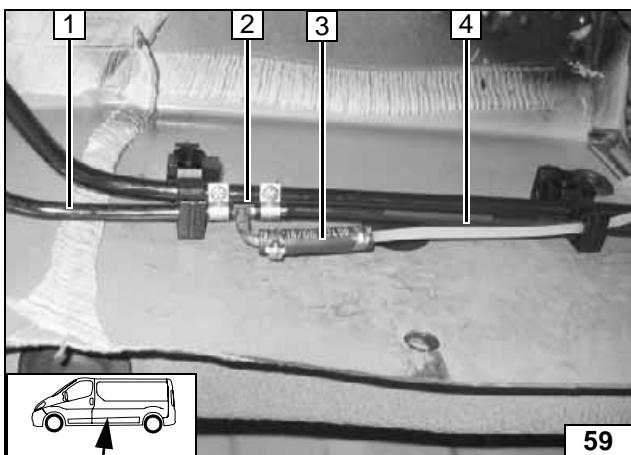


Fuel line from heater unit on pressure side of metering pump [side with connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1** Connector of metering-pump wiring harness
- 2** 10 mm dia. hose clamp [2x]
- 3** 90° molded hose
- 4** Fuel line, cut to length



#### Connection of metering pump

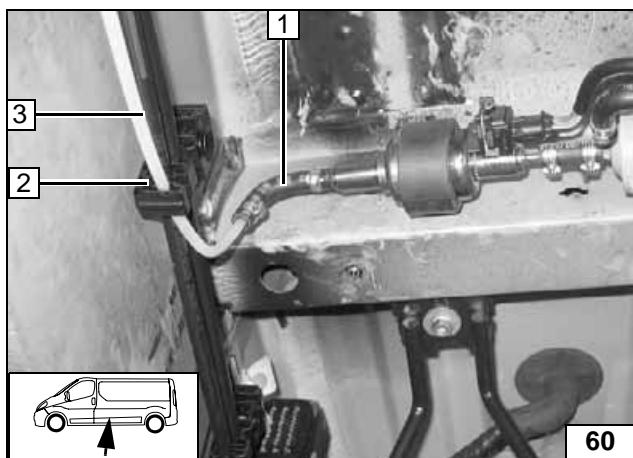
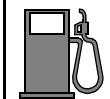


Fuel removal is carried out via original vehicle fuel return line **1** !

- 2** 6x5x6 fuel standpipe, 8 mm dia. hose clamp [2x]
- 3** Hose section, 10 mm dia. hose clamps [2x].
- 4** Fuel line



#### Removing fuel



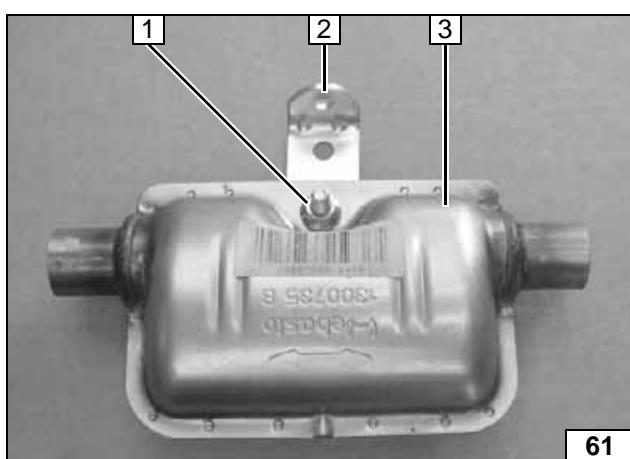
Fuel line from heater unit on intake side of metering pump [side without connector]. Check the position of the components; adjust if necessary. Check that they have free clearance.

Insert fuel line in line holder **2**.

**1** 90° molded hose, 10 mm dia. hose clamp [2x]

**3** Fuel line from fuel standpipe, cut to length

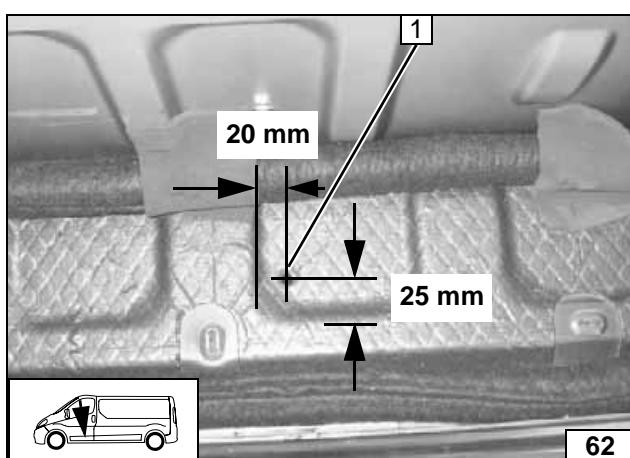
Connec-  
tion of me-  
tering  
pump



### Exhaust system

- 1 M6x20 bolt, M6 flanged nut
- 3 Angle bracket
- 3 Exhaust muffler

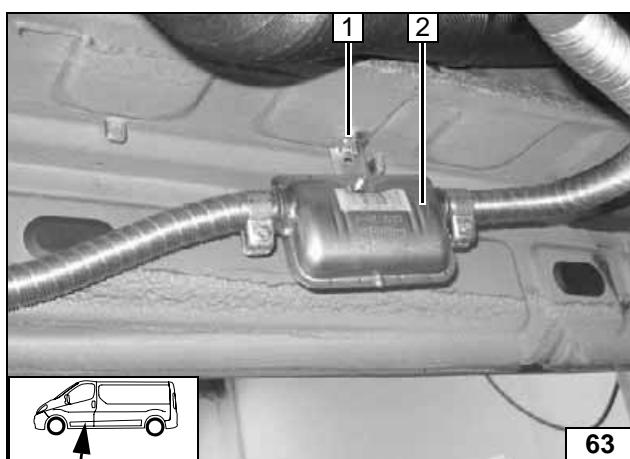
Preassembling exhaust muffler



Drill 6 mm dia. hole **1** in driver's entrance as shown.



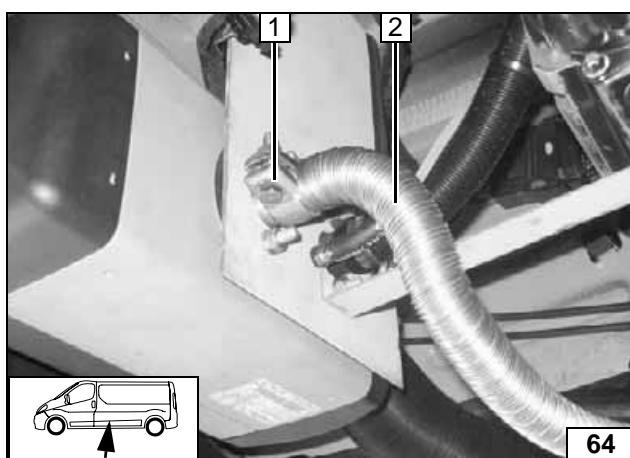
Preparing installation of exhaust muffler



M6x20 bolt, large diameter washer is inserted through hole from above.

- 1 M6 flanged nut
- 2 Exhaust muffler, preassembled

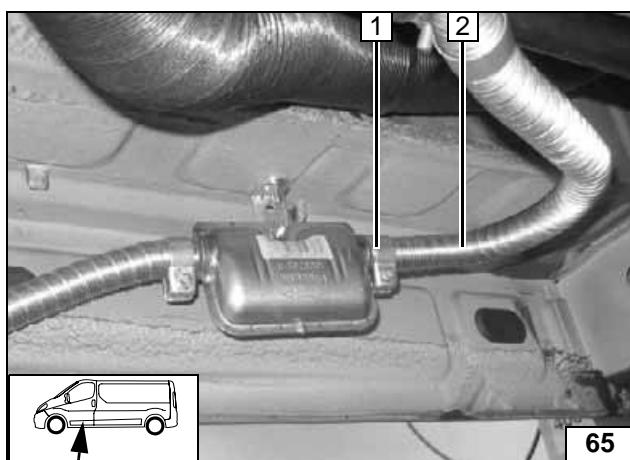
Installing exhaust muffler



Ensure sufficient distance to neighboring components.

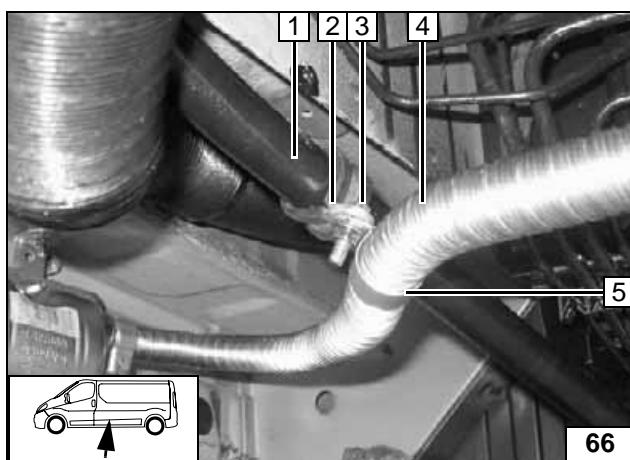
- 1 Hose clamp
- 2 Exhaust pipe, 750 mm long

Installing exhaust pipe



- 1 Hose clamp  
2 Exhaust pipe from heater unit

Installing  
exhaust  
pipe

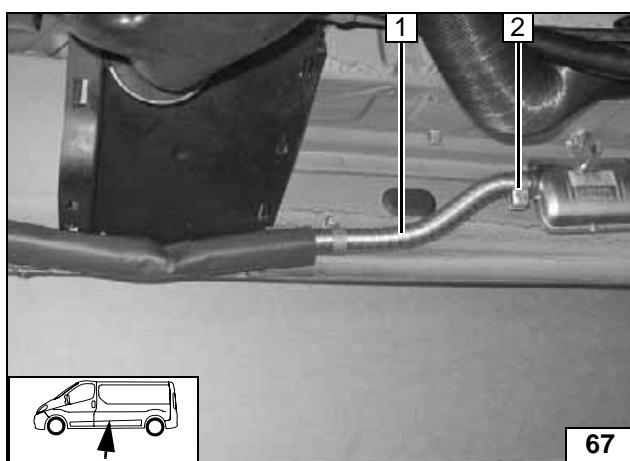


Ensure sufficient distance to neighboring components.

- 1 Original vehicle strut  
2 Rubber-coated pipe clamp, 25 mm dia.  
3 M6x20 bolt, M6 flanged nut  
4 Exhaust pipe  
5 P-clamp



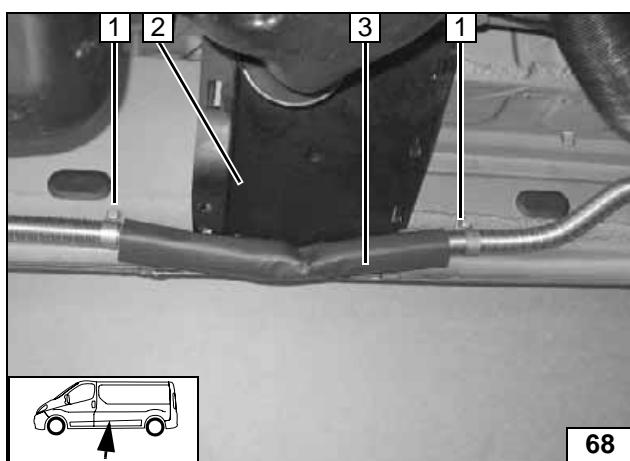
Fastening  
exhaust  
pipe



- 1 Exhaust-pipe end piece, 1,500 mm long  
2 Hose clamp



Installing  
exhaust  
pipe



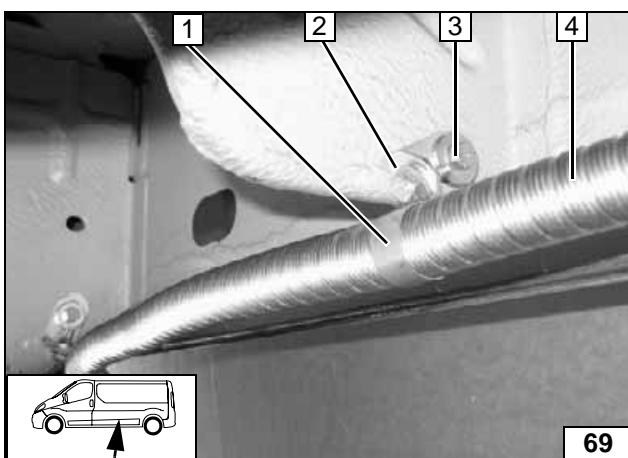
Align pipe insulation **3** to plastic shrouding **2** as shown.

Before installing, drill 9.1 mm dia. hole; M6 rivet nuts M6 at position **1** [2x each]

- 1 M6x30 bolt, spring lockwasher, p-clamp, 10 mm shim [2x each] on rivet nut

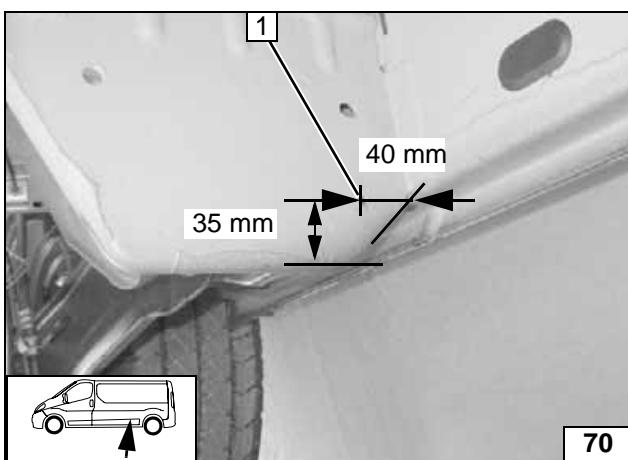


Installing  
exhaust  
pipe



- 1** P-clamp  
**2** M6x20 bolt, angle bracket, M6 flanged nut  
**3** M6x20 bolt, washer, M6 flanged nut on original vehicle hole  
**4** Exhaust-pipe end piece

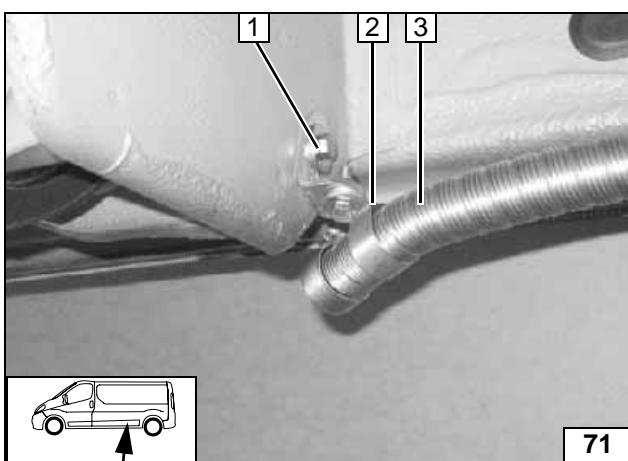
Installing  
exhaust  
pipe



Drill 6.5 mm dia. hole **1** as shown.

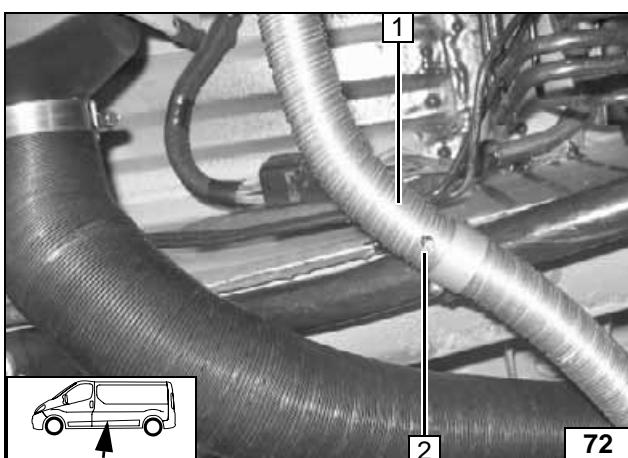


- Installing  
exhaust  
pipe



- 1** M6x20 bolt, washer, angle bracket, M6 flanged nut  
**2** M6x20 bolt, p-clamp, M6 flanged nut  
**3** Exhaust-pipe end piece

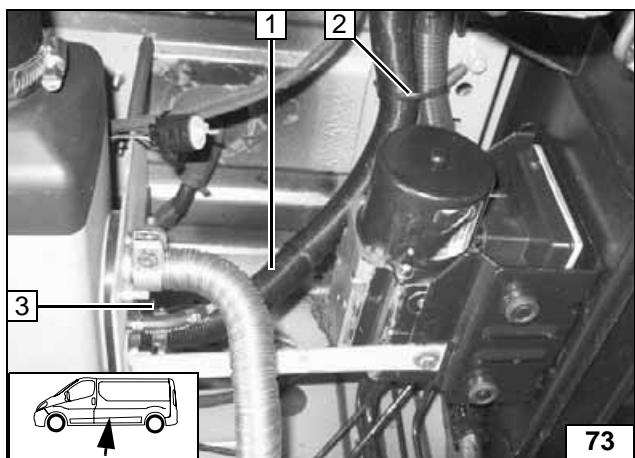
Installing  
exhaust  
pipe



Drill 2.5 mm dia. condensed-water drain hole **2** in exhaust pipe **1** as shown.



Installing  
intake pipe

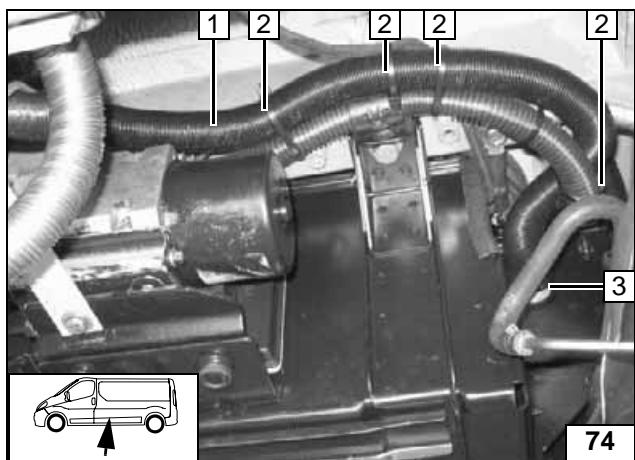


### Combustion air



- 1 Combustion-air intake pipe
- 2 Cable tie
- 3 27 mm dia. hose clamp

Installing  
combus-  
tion air  
pipe

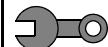


Mount protective cap 3 on combustion-air intake pipe 1.

2 Cable tie [4x]



Installing  
intake pipe



## Final Work

### **WARNING!**

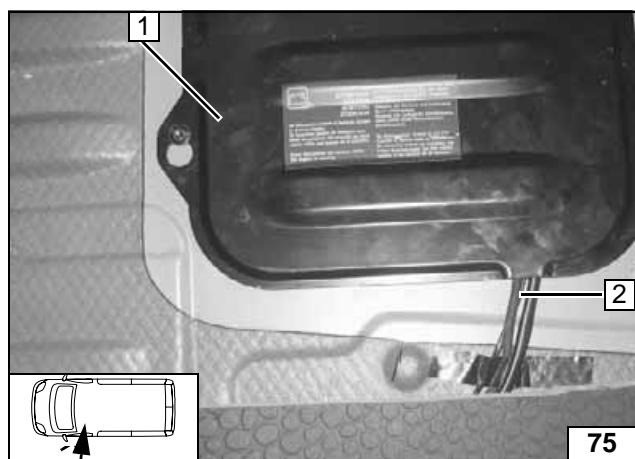
Reassemble the disassembled components in reverse order.

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).

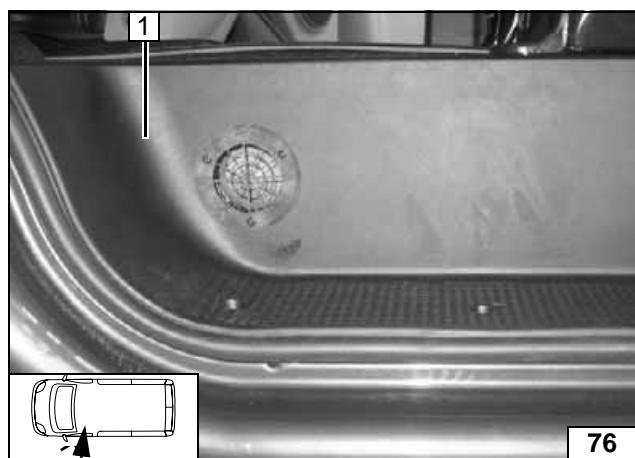
- Connect the battery
- Train the Telestart (if installed)
- Set the digital timer.
- Check the proper operation of the air heater, see the operating instructions/installation instructions.
- Attach the "Switch off additional heater before refueling" sticker to the left-hand B-pillar.



Mount service cover of battery **1** and ensure proper positioning of wiring harness **2**.



**Installing  
battery  
cover**



**1** Preassemble trim

**Installing  
trim on  
driver's  
side en-  
trance**

# Webasto

*Feel the drive*

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