Water Heater

Thermo Top C Motorcaravan Parking Heater $(E)_{00\ 0002}$

Installation Documentation

Iveco Daily

Diesel

From model year 2014 Left-hand drive vehicle Manual transmission Manual A/C system Automatic air-conditioning Front fog lights Euro 5



WARNING!

Hazard warning:

The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

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.

The initial startup is to be executed with the Webasto Thermo Test Diagnosis.

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



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Validity

Manufacturer	Model	Туре	EG BE No. / ABE
lveco	Daily	FIA 2,3	e3 * 2007/46 * 0118 *
Iveco	Daily	FD11C1C	e3 * 2007 / 46 * 0120 *
Engine type	Engine model	Output in kW	Displacement in cm ³
F1AFL411B	Diesel	93	2297
F1CFL411H	Diesel	125	2998

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

The installation location of the digital timer or MultiControl RV should be confirmed with the end customer before installation.

Documentation:

- Please remove page 45 in case of manual air-conditioning and operation via digital timer and add to the operating instructions.
- Please remove page 46 in case of manual air-conditioning and operation via MultiControl RV and add to the operating instructions.
- Please remove page 47 in case of automatic air-conditioning and operation via digital timer and add to the operating instructions.
- Please remove page 48 in case of automatic air-conditioning and operation via MultiControl RV and add to the operating instructions.

Heater / Installation Kit

Quantity	Description	Order No.:
1	Basic delivery scope of Motorcaravan Thermo Top C	9015824A
1	Installation kit for Iveco Daily 2014 Diesel	1323828B
1	In case of automatic air-conditioning: Automatic A/C additional kit for Iveco Daily 2015	1324529A
1	MultiControl RV option	see price list
1	To be ordered additionally in case of MultiControl RV: Installation frame	9030077_
1	Remote Option (Telestart)	see price list

Foreword

This installation documentation applies to lveco Daily Diesel vehicles - for validity, see page 2 - from model year 2014 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this 'installation documentation'.

However, the stipulations in this 'installation documentation', the 'operating instructions' and 'installation instructions' for the *Thermo Top C* must always be observed.

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

General Instructions

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted before the installation.

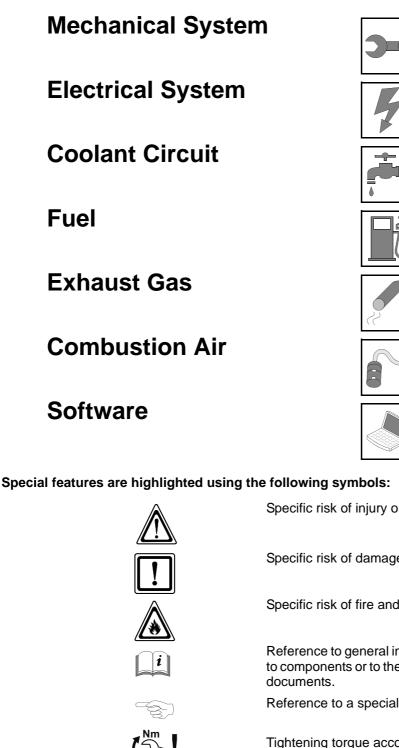
The cabin battery (auxiliary battery), if installed, must be connected to the power supply of the heater.

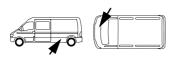
Special Tools

- Hose clamp pliers for auto-tightening hose clamps
- Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 6mm²
- Crimping pliers for cable lug / tab connector 0.5 6mm²
- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- Deep-hole marker
- Webasto Thermo Test Diagnosis with current software

Explanatory Notes on Document

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





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

Specific risk of injury or fatal accidents.

Specific risk of damage to components.

Specific risk of fire and explosion.

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

Reference to a special technical feature.

Tightening torque according to the manufacturer's vehicle-specific documents.

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

Preliminary Work

WARNING!

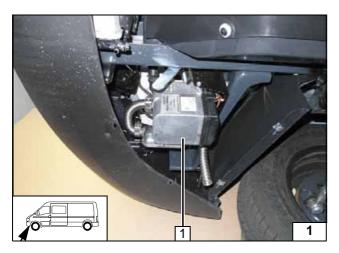
- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Disconnect the battery.
- Depressurise the cooling system.
- Detach the engine compartment fuse and relay box.
- Remove the engine compartment trim on the right side (only in case of vehicle with vacuum box).
- Detach the power steering reservoir (if present).
- Remove the air filter together with the intake hose.
- Remove the wheel well underride protection on the right side.
- Remove the lower instrument panel trim on the driver's side.
- Remove the A/C control unit, see removal instructions (only in case of automatic air-conditioning in conjunction with MultiControl RV)

The following work should only be performed during the corresponding installation sequence:

- Remove the fuel tank in accordance with the manufacturer's instructions.
- Remove the fuel tank sending unit in accordance with the manufacturer's instructions.

Heater

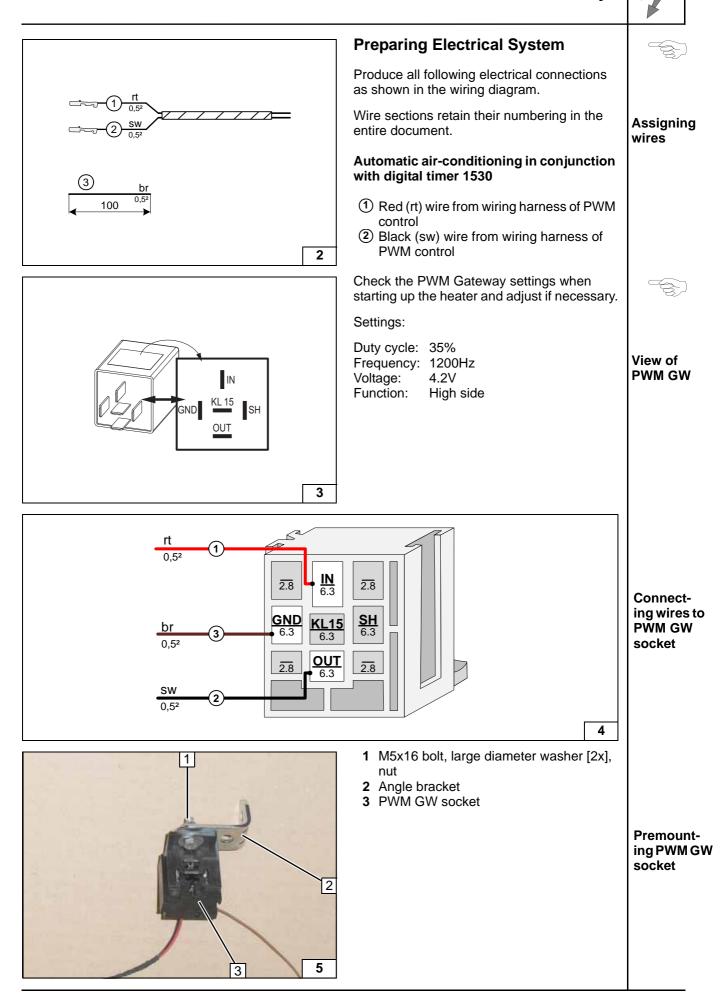
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.

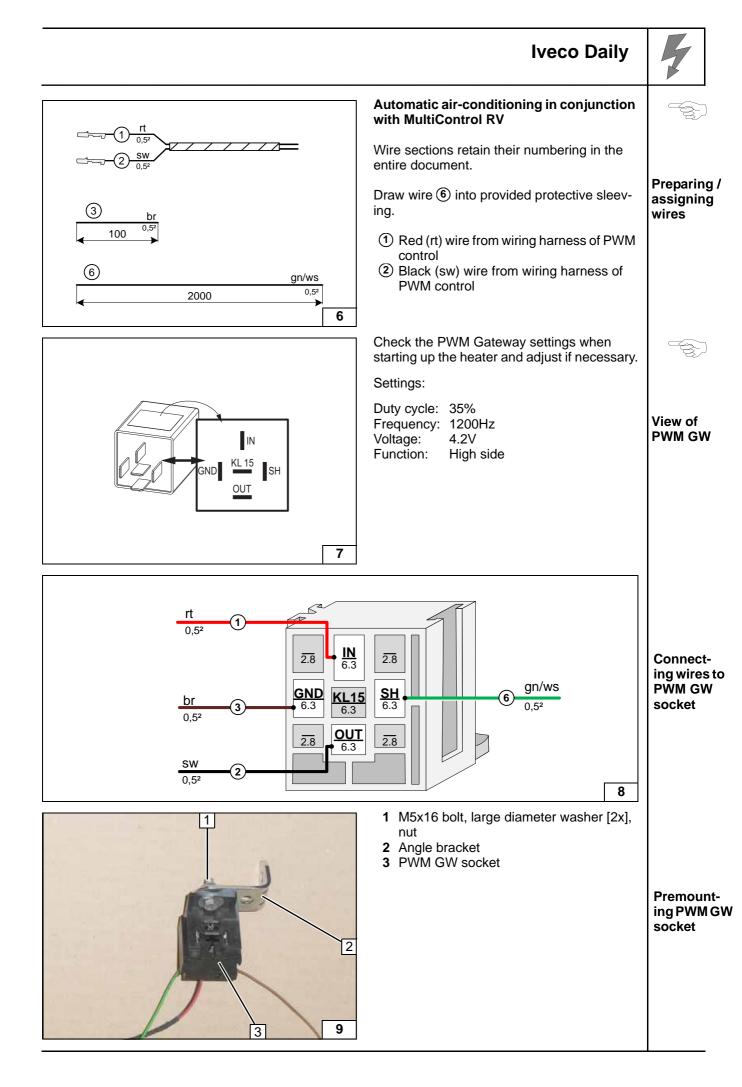


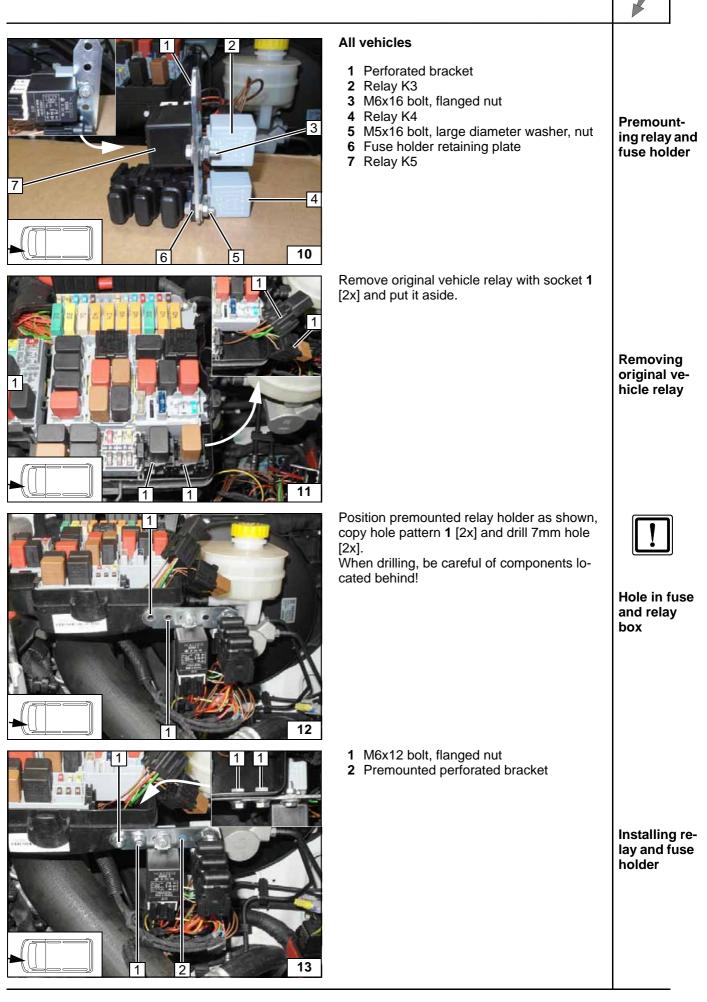
Heater Installation Location

1 Heater

Installation location



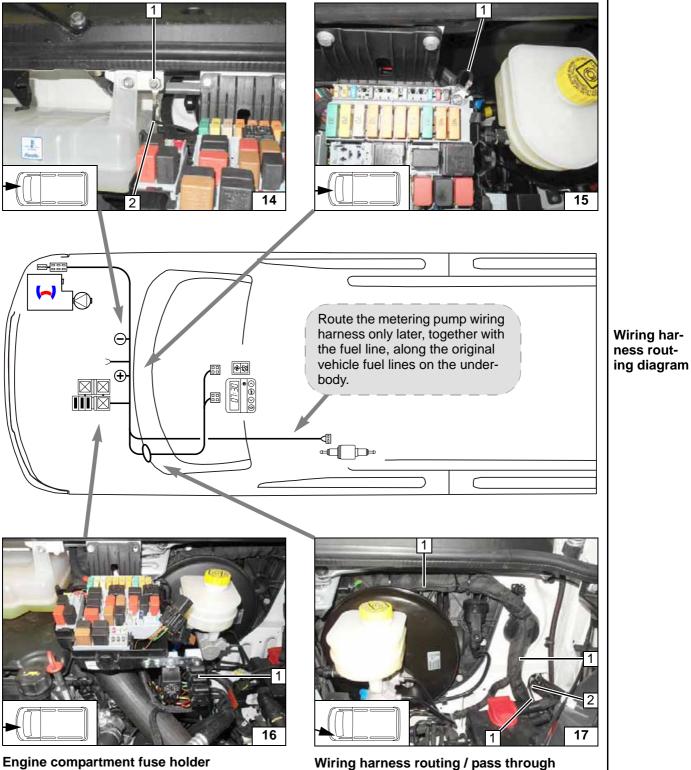




Manual Air-Conditioning Electrical System

 $\mbox{Earth wire}$ (see also the info in the "General Instructions" section)

- 1 M8 flanged nut on original vehicle stud bolt2 Earth wire
- **Positive wire** (see also the info in the "General Instructions" section)
 - 1 Positive wire on original vehicle positive distributor bolt

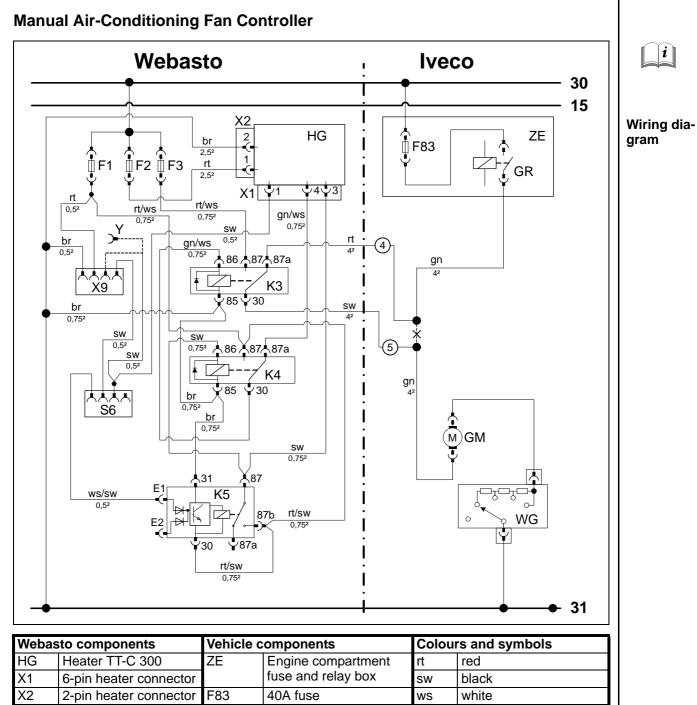


Fasten wiring harness of heater **1** to original vehicle wiring harness with cable tie.

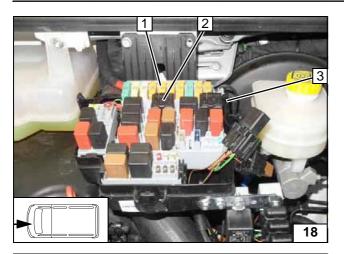
2 Original vehicle passenger compartment pass through

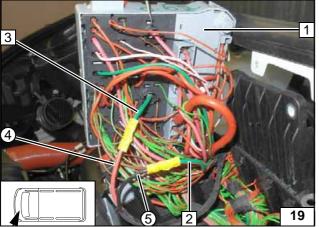
1 Fuses F1, F2 and F3





HG	Heater TT-C 300	ZE	Engine compartment	rt	red
X1	6-pin heater connector		fuse and relay box	SW	black
X2	2-pin heater connector	F83	40A fuse	WS	white
F1	1A fuses	GR	Fan relay	gn	green
F2	20 fuse	GM	Fan motor	br	brown
F3	25A fuse	WG	Resistor group		
Y	Wire insulated and tied back (only in case of MultiControl RV)				
X9	Heater controls connec- tor				
K3	Fan relay				
K4	Additional relay				
S6	Toggle switch			Х	Cutting point
K5	Electronic relay			Wiring	colours may vary.



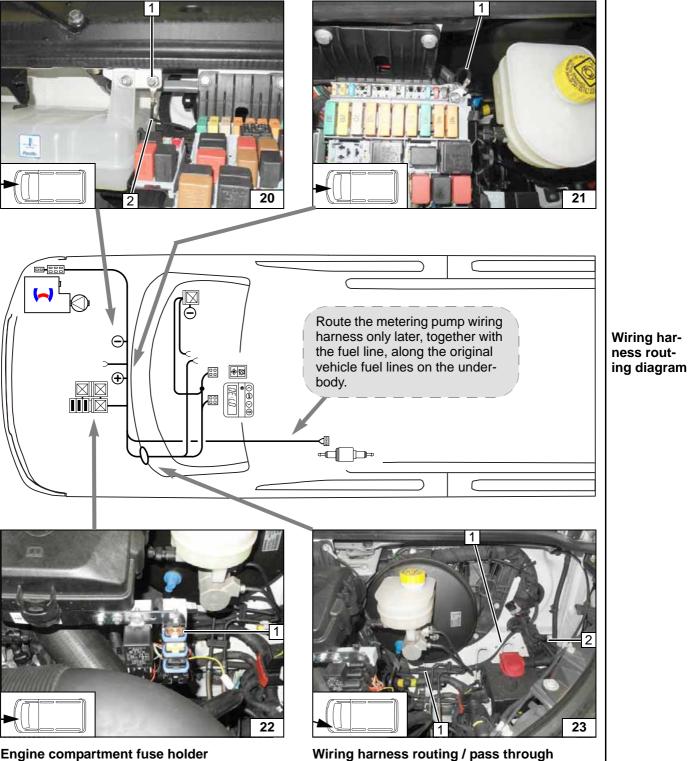


2	Socket for fan fuse F83 Socket for fan relay Detach fuse and relay box	View of fuse and relay box
2 3 ④	Fuse and relay box, detached Green (gn) wire of fan motor Green (gn) wire of fan relay Red (rt) wire of K3/87a Black (sw) wire of K3/30	Connecting fuse and re- lay box

Automatic Air-Conditioning Electrical System

Earth wire (see also the info in the "General Instructions" section)

- 1 M8 flanged nut on original vehicle stud bolt 2 Earth wire
- Positive wire (see also the info in the "General Instructions" section)
- 1 Positive wire on original vehicle positive distributor bolt



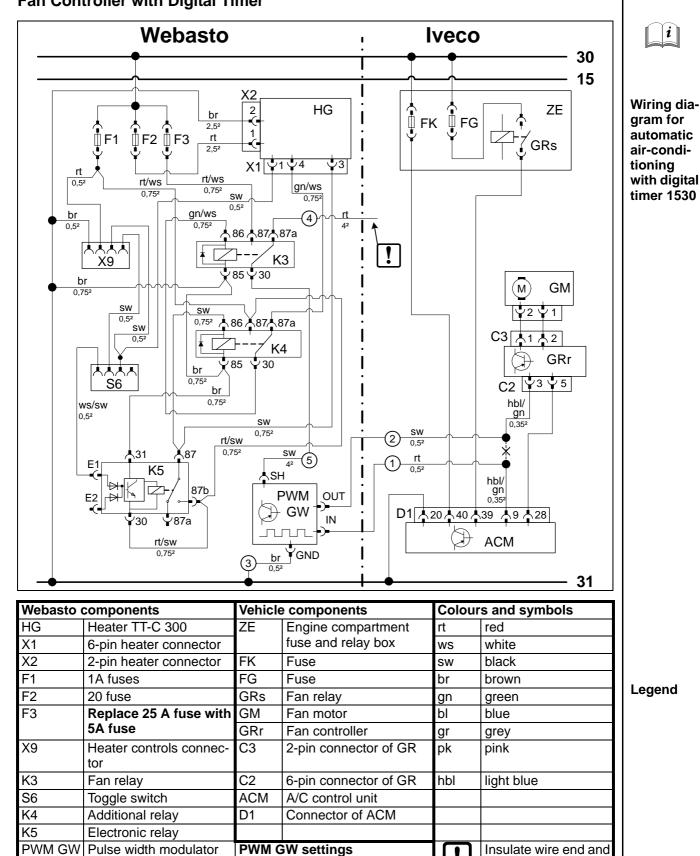
Engine compartment fuse holder

1 Replace 25A fuse F3 with 5A fuse.

Fasten wiring harness of heater 1 to original vehicle wiring harness with cable tie.

2 Original vehicle passenger compartment pass through





35% 1200Hz

4.2V

High side

Duty cycle:

Frequency:

Voltage:

Function:

tie back

Wiring colours may vary.

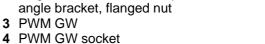
Cutting point

X



Connect black (sw) wire (5) from K3/30 to socket of PWM GW / SH in passenger compartment

24



3 Brown (br) wire of PWM GW / GND

Original vehicle stud bolt, premounted

rt

12

sw

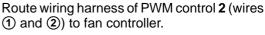
4

1

3

4

Installing PWM GW



Detach connector C2 from fan controller

- 1 Fan controller
- 2 Light blue/green (hbl/gn) wire of connector C2/ pin 3 from fan controller
- 3 Light blue/green (hbl/gn) wire of connector D1/ pin 9 from A/C control unit
- 1 Red (rt) wire from PWM GW / IN of wiring harness of PWM control
- 2 Black (sw) wire from PWM GW / OUT of wiring harness of PWM control

Connecting fan controller

25 1 2 C2 GRr 3) 3 \mathcal{F} hbl/gn 0,352 SW D1 0,52 //// ç 1 7 0,5² hbl/gn 0,35² 26 3

<u>IN</u> 6.3

KL15

6.3

<u>OUT</u>

6.

2.8

<u>SH</u> 6.3

2.8

2.8

GND

6.3

2.8

rt 0,5²

sw

0,5²

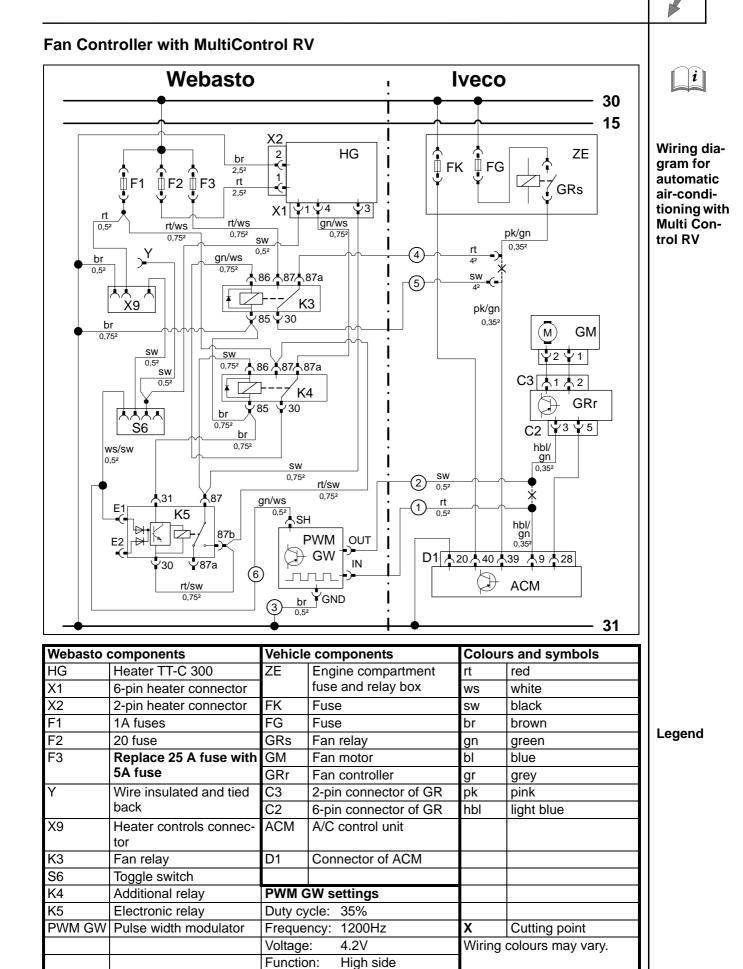
br

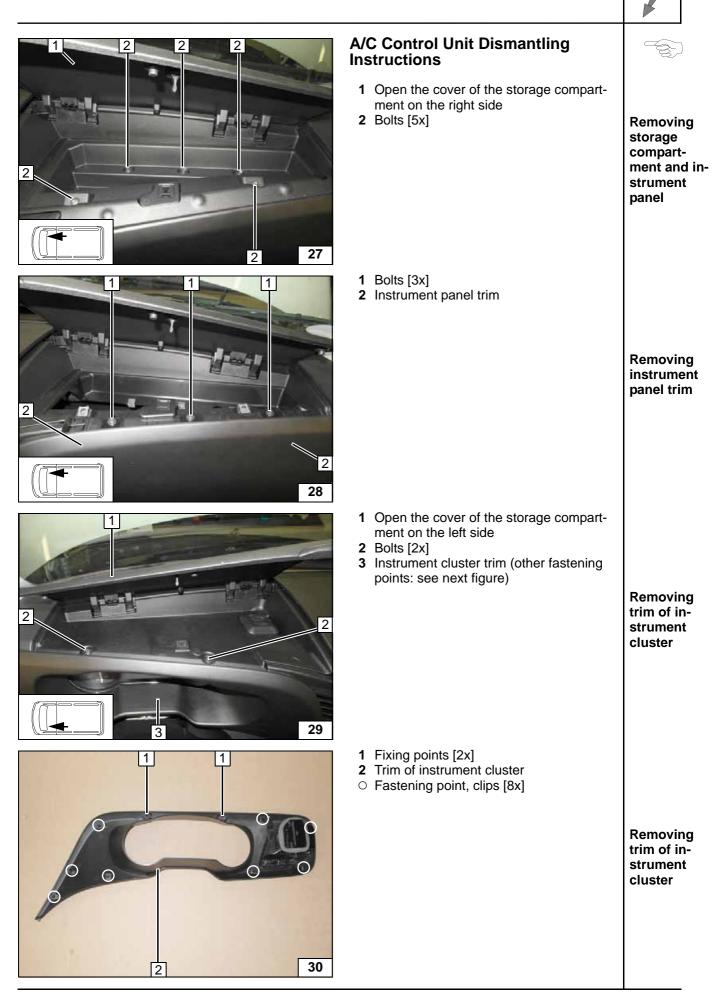
0,5²

2

3

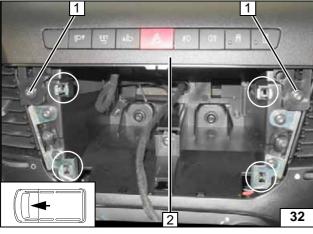
Ident. No.: 1323829B_EN



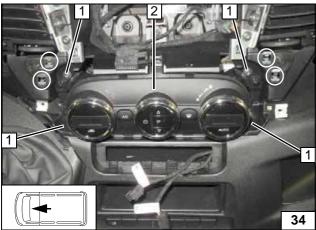


1 Open the cover of the middle storage compartment 2 Pull the screen out backwards (fastening point: see next figure) Removing screen 31 1 Remove bolts [2x] 1 2 Button panel • Screen fastening point, clips [4x] Removing button panel 32 Pull A/C control panel trim piece 1 out backwards (fastening point: see next figure) Removing A/C control panel trim piece 33 1 Remove bolts [4x] 2 A/C control panel O A/C control panel trim piece fastening point, clips [4x] Removing A/C control panel 1 34

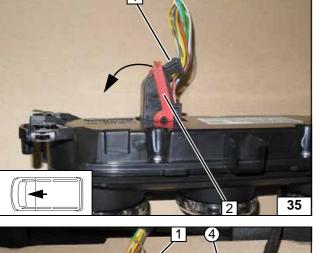


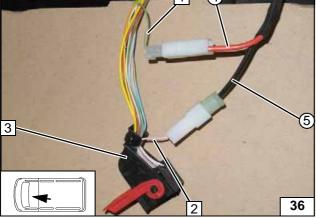


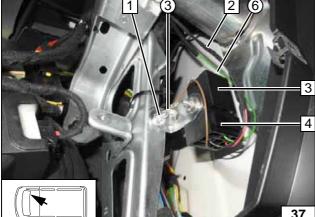


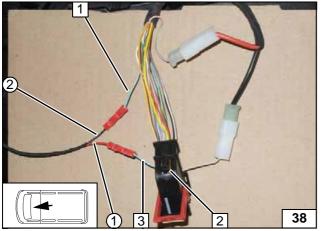


1 Connector D1 of A/C A/C control panel 2 Lock Detaching connector D1 35 1 Pink/green (pk/gn) wire of fan relay 1 4 2 Pink/green (pk/gn) wire of black connector part D1/ pin 39 from A/C control unit 3 Connector D1 of A/C control unit (4) Red (rt) wire of K3/87a (5) Black (sw) wire of K3/30 Connecting A/C control unit 36 1 Original vehicle stud bolt, premounted 2 (6)angle bracket, flanged nut 3 PWM GW 4 PWM GW socket 3 Brown (br) wire of PWM GW / GND Installing **PWM GW** Route green/white (gn/ws) wire 6 and PWM 4 control wiring harness 2 to the A/C control unit. 37 1 Light blue/green (hbl/gn) wire of connector C2/ pin 3 from fan relay 2 Connector D1 of A/C control unit 3 Light blue/green (hbl/gn) wire of grey connector part D1/ pin 9 from A/C control unit **Connect-**1 Red (rt) wire from PWM GW / IN of wiring ing A/C harness of PWM control control unit ② Black (sw) wire from PWM GW / OUT of wiring harness of PWM control

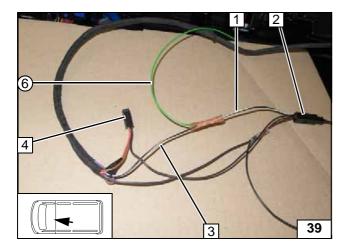






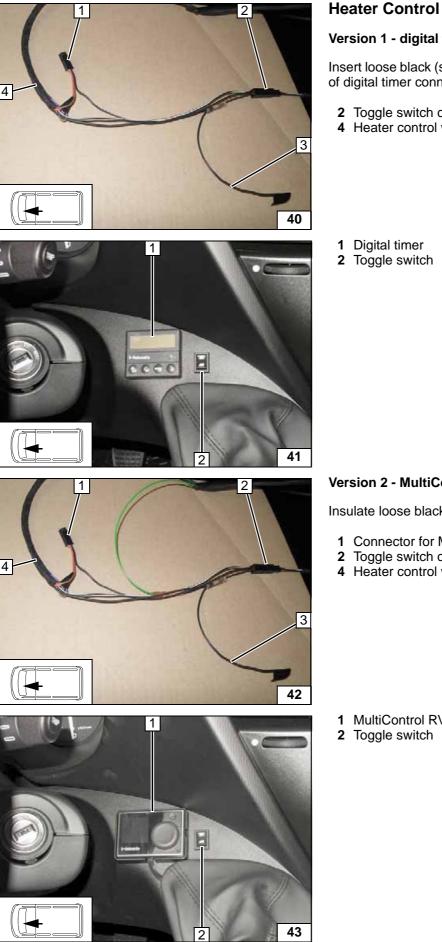


Connecting wire ⑥ from PWM GW



1	White/black (ws/sw) wire to toggle switch	
	connector S6	
•	To a sele assistable as a second stars OC	

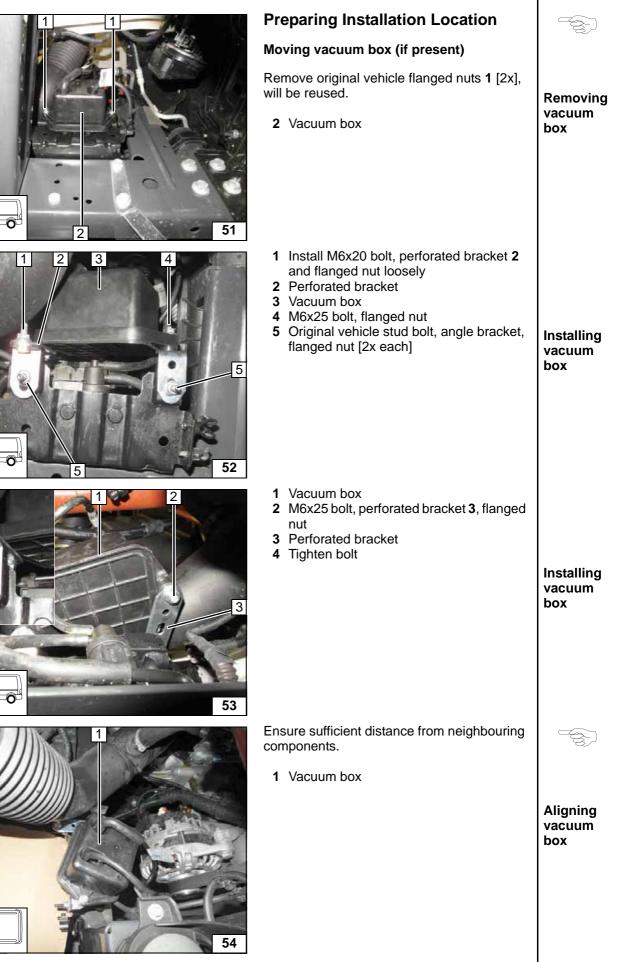
- 2 Toggle switch connector S6
 3 White/black (ws/sw) wire of K5/ E1
 4 Connector X9 of heater control
 (6) Green/white (gn/ws) wire of PWM GW / SH

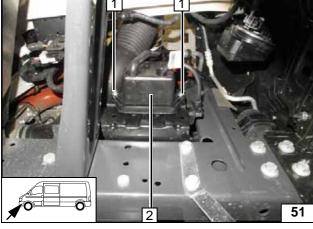


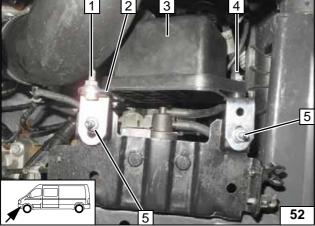
Version 1 - digital timer 1530 Insert loose black (sw) wire 3 into free socket of digital timer connector 1. Preparing wiring har-2 Toggle switch connector S6 ness 4 Heater control wiring harness 1 Digital timer *i*] 2 Toggle switch Installing digital timer Version 2 - MultiControl RV Insulate loose black (sw) wire 3 and tie back. 1 Connector for MultiControl RV **2** Toggle switch connector S6 Preparing 4 Heater control wiring harness wiring harness 1 MultiControl RV with installation frame [i] 2 Toggle switch Installing MultiControl RV

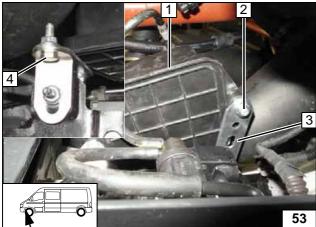
	Iveco Daily	4
	Remote Option (Telestart)	
	1 Connector for digital timer / MultiControl RV	_
	2 Insert grey (gr) wire in free socket, pin 2	Preparing Telestart adapter wir- ing harness
	Insulate yellow (ge) wire and black (sw) wire.	
rt gr br 1 -	1 Connector for digital timer / MultiControl RV	Preparing Telestart adapter wir- ing harness
	 Insert black (sw) wire in free socket, pin 2 Connector in the direction of heater wiring harness 	
		Preparing Telestart adapter wir- ing harness
	Insulate yellow (ge) wire.	
br br rt 3 47		Preparing Telestart adapter wir- ing harness

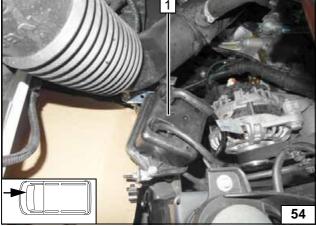
Iveco Daily	7	
Fasten receiver 1 with double-sided adhesive tape.	Installing receiver	
1 Aerial	Installing aerial	
Temperature sensor T100 HTM Fasten temperature sensor 1 with double-sid- ed adhesive tape.	Installing tempera- ture sens	

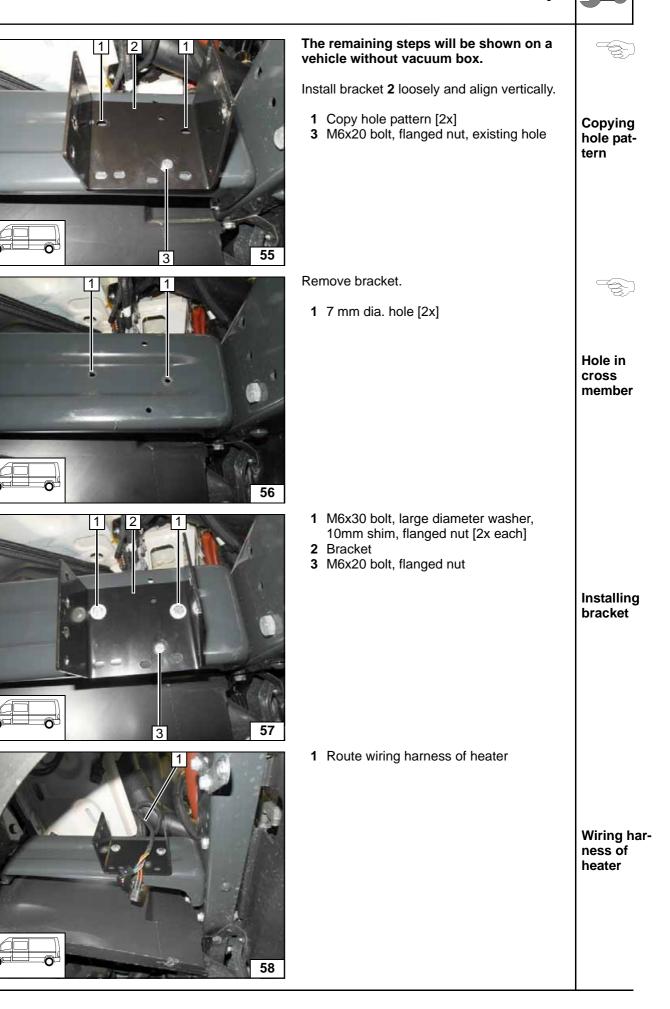


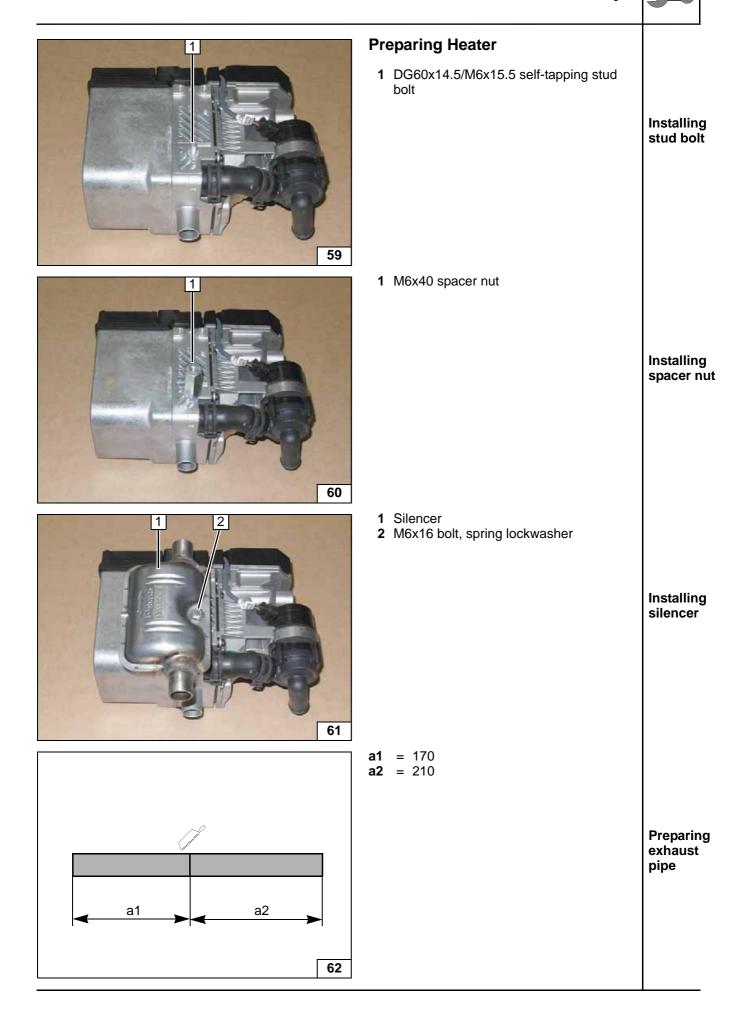








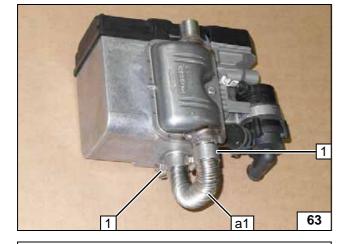


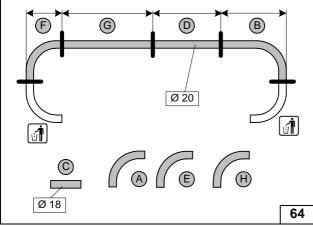


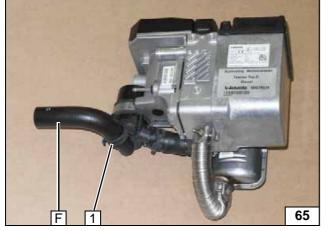
Installing exhaust pipe a1

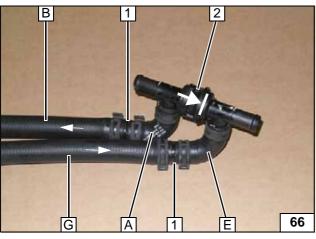
_/ as-

1 Hose clamp [2x]









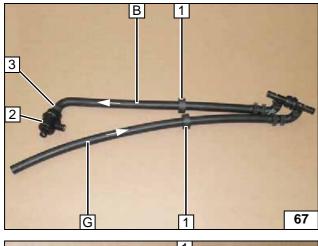
	2.3 D	3.0 D	
В	620	630	Cutting to
С	80	80	length / as
D	670	580	signing
F	110	110	hoses
G	800	850	

Mounting hose F Mind the direction of flow of the check valve! Ş 1 18x20mm dia. connecting pipe, 25mm dia. spring clip, 27mm dia. spring clip [2x 2 Check valve, 25mm dia. spring clip [2x] Installing

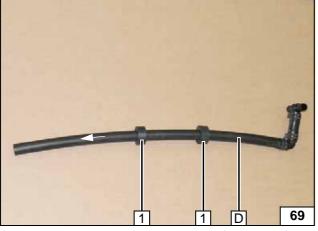
check valve

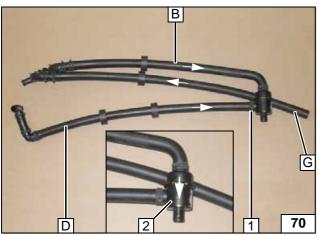
each]

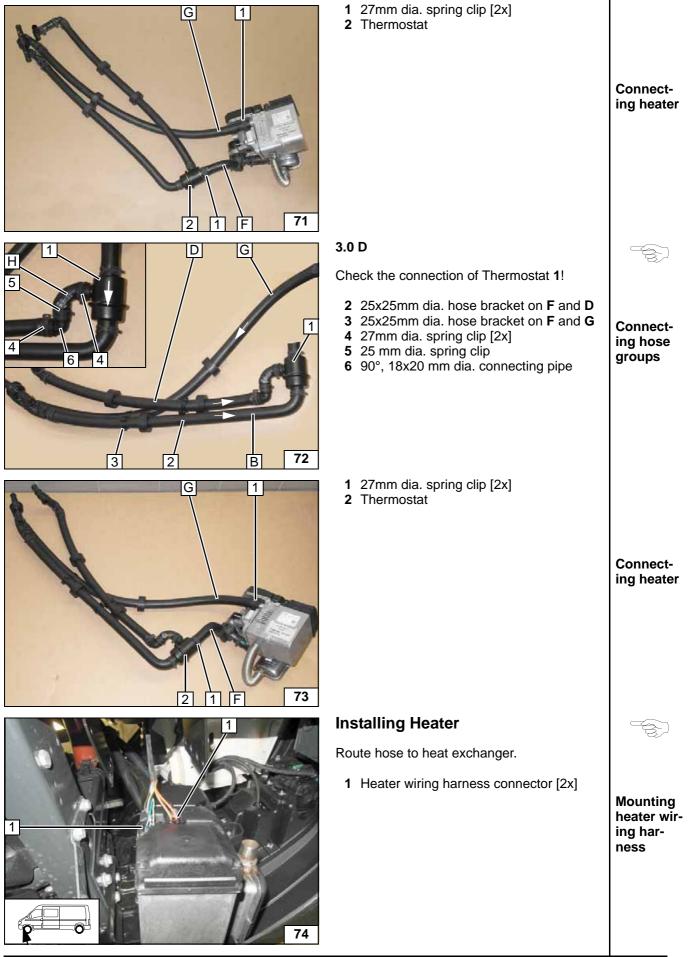
	Iveco Daily	3-0
-	Ensure correct connection of Thermostat 2!	
ł,	 Slide on black (sw) rubber isolator [2x] 27mm dia. spring clip 	
67		Preparing hose group of heat ex- changer in let
- <u>C</u>	 18x18x18 T-piece, 25mm dia. spring clip 90°, 18x20mm dia. connecting pipe, 25mm dia. spring clip, 27mm dia. spring clip 	Premount- ing T-piece
58	1 Slide on black (sw) rubber isolator [2x]	Preparing hose group of heat ex- changer outlet
59	2.3 DCheck the connection of Thermostat 2!1 27mm dia. spring clip	Connect- ing hose groups









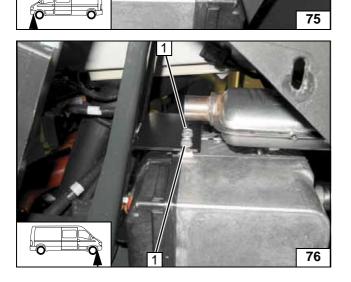


- Ejot screw
 Bracket

Installing heater

1 Ejot screw [2x]

Installing heater



2

1

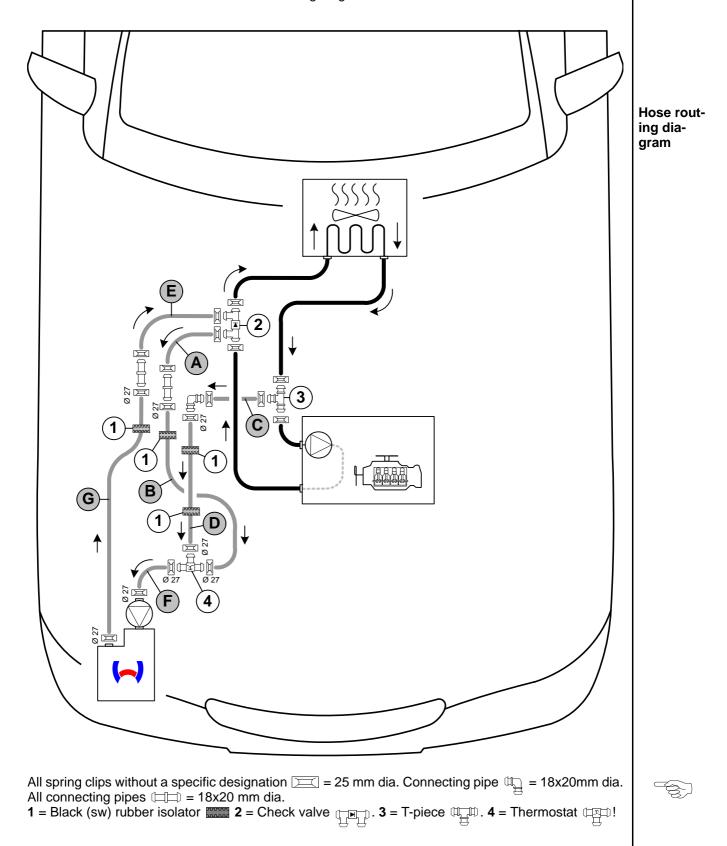
23

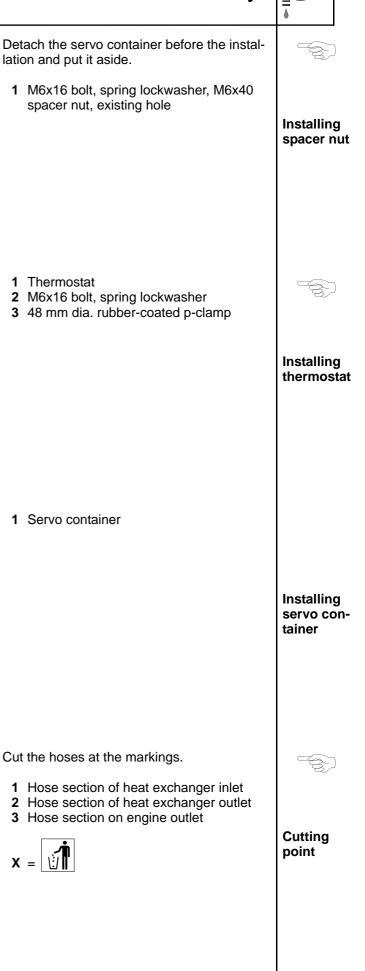


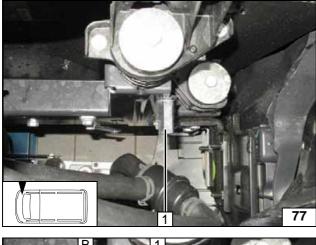
Coolant Circuit for 2.3D Vehicles

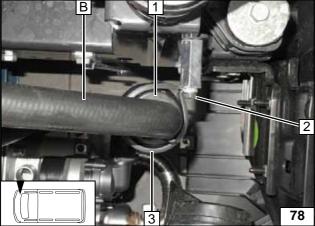
WARNING!

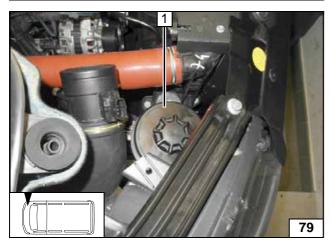
Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection should be based on the following diagram:

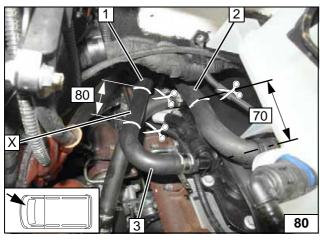


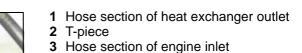








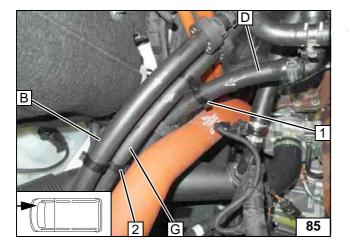




 Hose section of heat exchanger outlet T-piece Hose section of engine inlet 	Installing T- piece
Align black (sw) rubber isolator 1 [2x] with original vehicle hoses.	Routing in engine compart- ment
 Hose section of heat exchanger inlet Check valve Hose section of engine outlet 	Installing check valve
Align black (sw) rubber isolator 1 [2x] with original vehicle hoses.	Routing in engine compart- ment

Installing hose

bracket



Ensure sufficient distance from neighbouring components.

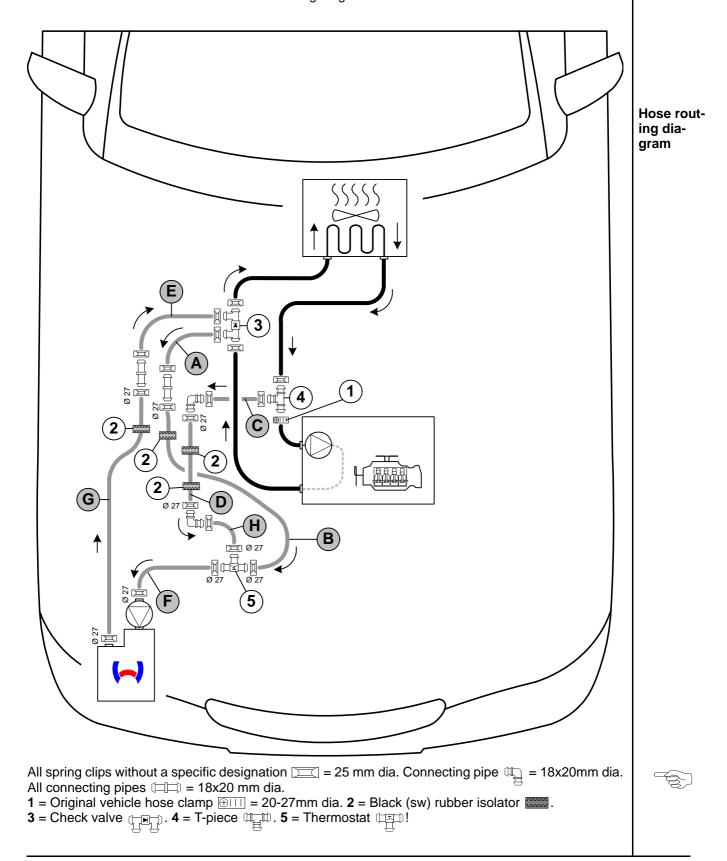
- 1 Hose bracket between hose **D** and hose **G**
- 2 Hose bracket between hose **B** and hose **G**

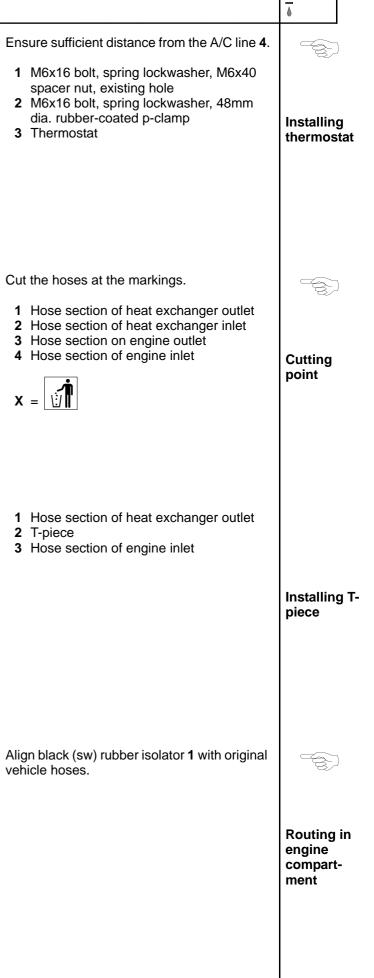


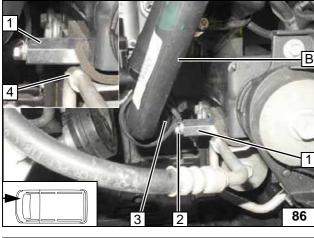
Coolant Circuit for 3.0D

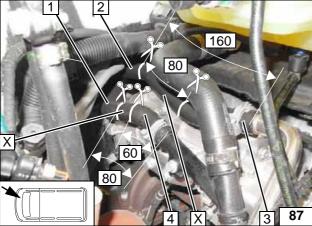
WARNING!

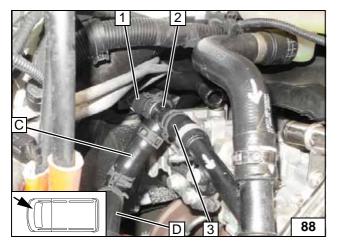
Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection should be based on the following diagram:







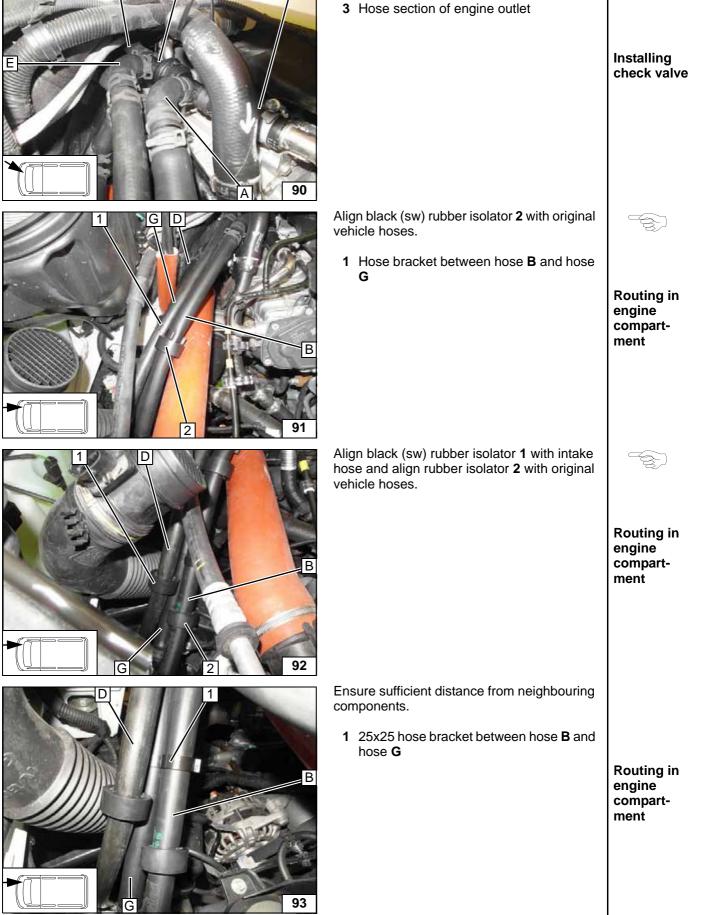






- **1** Hose section of heat exchanger inlet 2 Check valve

3



Fuel

CAUTION!

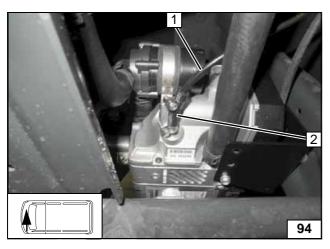
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off in an appropriate container.

Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

WARNING!

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





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



Routing lines

Connecting heater

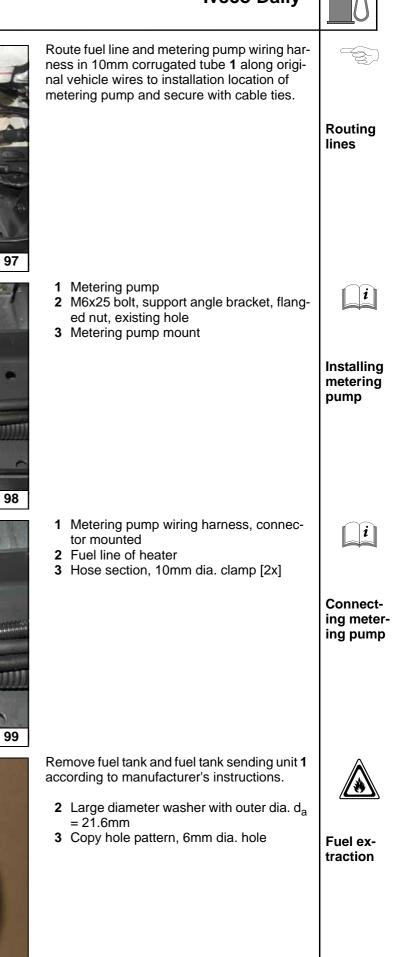
Route fuel line and wiring harness of heater in 13mm dia. corrugated tube **1** (slit) along original vehicle wiring harness up to the fuse holder and secure using cable ties.

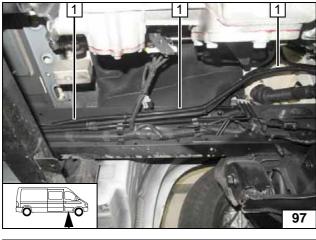
Pull fuel line and metering pump wiring harness into 10mm corrugated tube **1** and route to underbody.

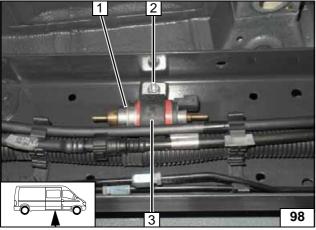
Routing

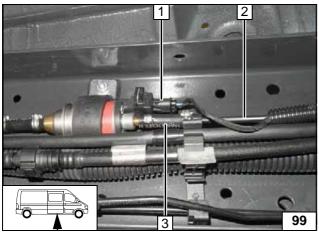
lines

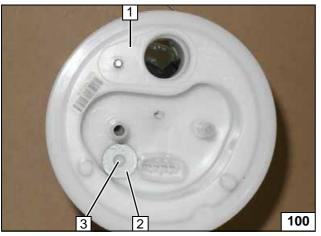




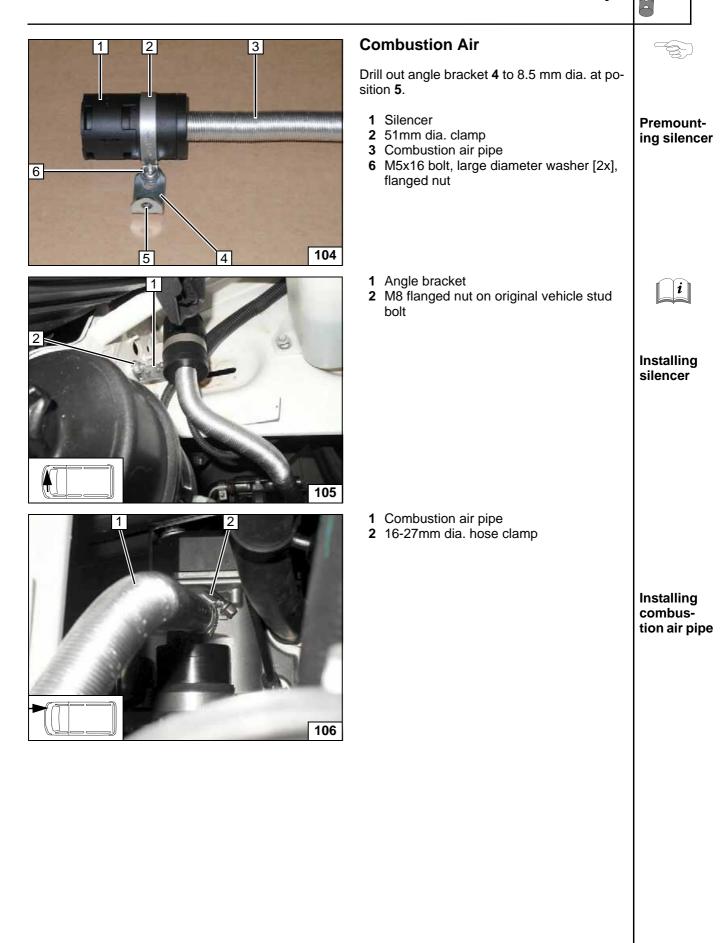


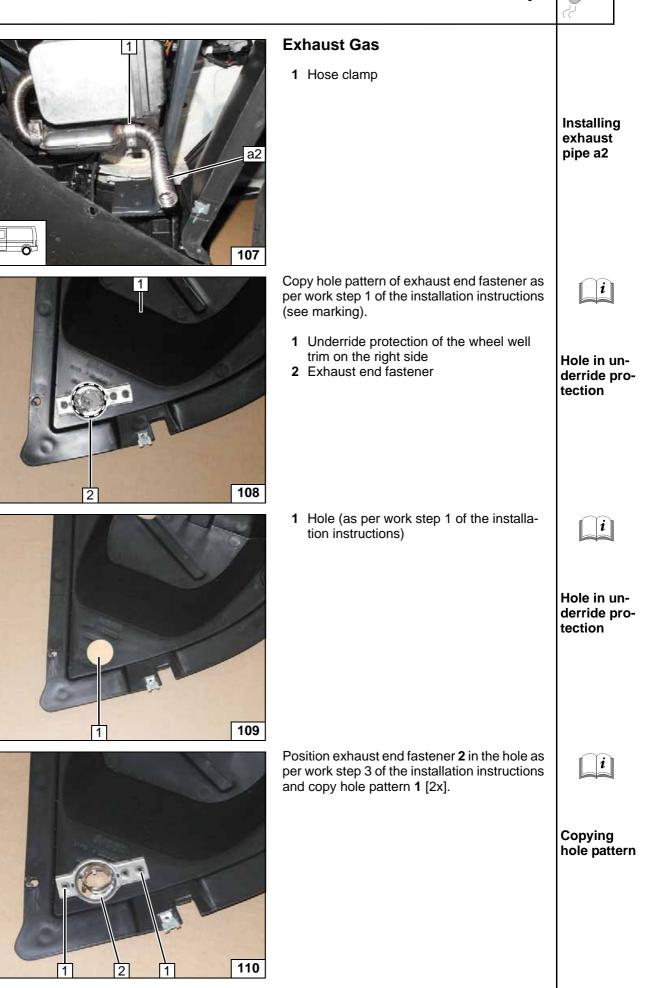






Iveco Daily	
Bend fuel standpipe 1 according to template and cut to length.	i Installing fuel stand- pipe
 Install fuel tank sending unit 4 in accordance with manufacturer's instructions. 1 90°, 3.5x4.5mm moulded hose (3.5mm side on fuel standpipe) 2 10mm dia. clamp 3 Fuel line 5 9mm dia. clamp Install fuel tank in accordance with manufacturer's instructions. 	<i>i</i> Connect- ing fuel line
 Slide 10mm dia. corrugated tube 1 onto fuel line of fuel standpipe 2. Check the position of the components; adjust if necessary. Check that they have freedom of movement. 3 Hose section, 10mm dia. clamp [2x] 	Connect- ing meter- ing pump





Hole 1 [2x] as per work step 4 of the installation instructions.

> Holes in underride protection

i

1 Self-tapping screw 5x13 [2x] as per work step 5 of the installation instructions 2 Exhaust end fastener

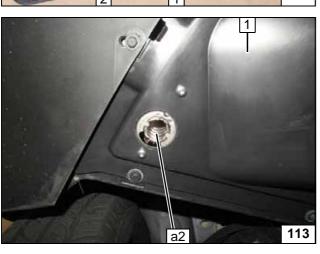
> Installing ex-haust end fastener

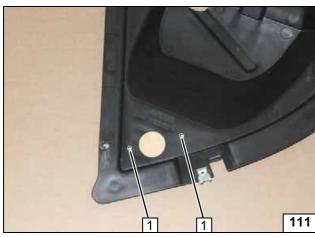
i]

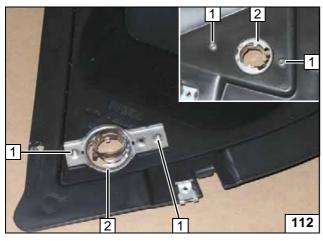
Install underride protection of wheel well on the right **1**. Install exhaust pipe **a2** as per work steps 6 - 8 of the installation instructions.

> Installing exhaust pipe a2

i









Final Work

WARNING!

Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back loose lines.

Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set digital timer or program MultiControl RV, teach Telestart transmitter if necessary
- Make settings on the A/C control panel according to the 'operating instructions'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.

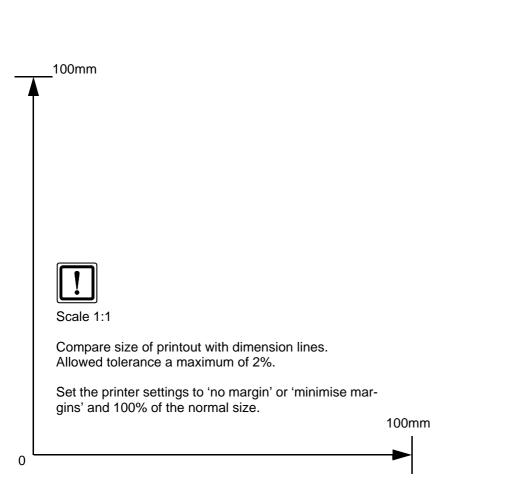


i

Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



Fuel Standpipe Template



Operation of Manual A/C / Digital Timer

Please remove page and add to the vehicle operating instructions.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle.

Engine pre-heating settings

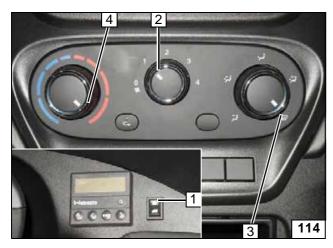
Note:

We recommend matching the heating time to the driving time.

Heating time = driving time

For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Before parking the vehicle, make the following settings:



Settings for engine pre-heating

- **1** Dial for engine pre-heating
- 2 Set fan to level '1', or max. '2'
- 3 Air outlet to windscreen
- 4 Set temperature to 'max.'

Manual AC

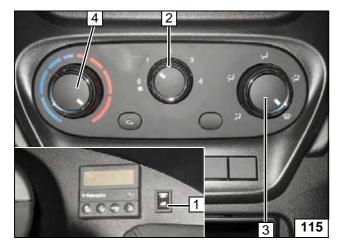
i

Cab heating settings

Note:

Ensure that the vehicle battery is supplied with sufficient charging current in continuous heating mode.

Before parking the vehicle, make the following settings:



Settings for cab heating

- 1 Dial for cab heating
- 2 Fan level as desired
- 3 Air outlet as desired
- 4 Temperature as desired

The settings for continuous heating can be varied according to requirements when the high-voltage system is supplied with 220V.

i

Manual AC



Operation of Manual A/C / MultiControl RV

Please remove page and add to the vehicle operating instructions.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle. **Note:**

Program the switch-on time as per the provided operating instructions when using the MultiControl.

Engine pre-heating settings

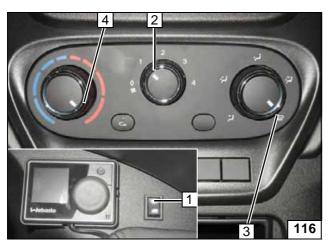
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Manual AC

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Feel the Drive

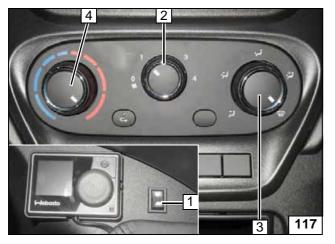
i

Cab heating settings

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Settings for cab heating

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- 4 Temperature as desired

The settings for continuous heating can be varied according to requirements when the high-voltage system is supplied with 220V.



i

Manual AC

Operation of Automatic A/C / Digital Timer

Please remove page and add to the vehicle operating instructions.

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For instructions on deactivation, please refer to the operating instructions of the vehicle.

Engine pre-heating settings

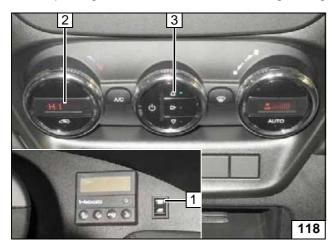
Note:

We recommend matching the heating time to the driving time.

Heating time = driving time

For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Before parking the vehicle, make the following settings:



Settings for engine pre-heating

Presetting the fan speed is not necessary, it will automatically be set to level 2 to 3.

- **1** Dial for engine pre-heating
- 2 Set temperature to 'HI'
- **3** Air outlet to windscreen

Automatic air-conditioning

-)ebasto

Feel the Drive

i

Cab heating settings

Note:

Ensure that the vehicle battery is supplied with sufficient charging current in continuous heating mode.

Before parking the vehicle, make the following settings:



Settings for cab heating

- 1. Dial **1** for cab heating.
- 2. Switch on parking heater with heater control.
- 3. Turn the fan speed dial once (the A/C control panel is activated).
- 4. The following settings are possible now:
 - **2** Air outlet as desired
 - 3 Temperature as desired
 - 4 Fan speed as desired

The settings for continuous heating can be varied according to requirements when the high-voltage system is supplied with 220V.

Automat-

i

ic air-conditioning

Operation of Automatic A/C / MultiControl RV

Please remove page and add to the vehicle operating instructions.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle. **Note:**

Program the switch-on time as per the provided operating instructions when using the MultiControl.

Engine pre-heating settings

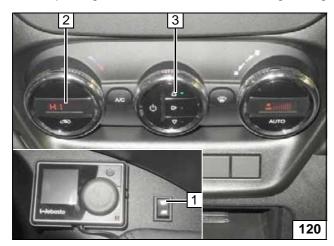
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Before parking the vehicle, make the following settings:



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- **1** Dial for engine pre-heating
- 2 Set temperature to 'HI'
- 3 Air outlet to windscreen

Automatic air-conditioning

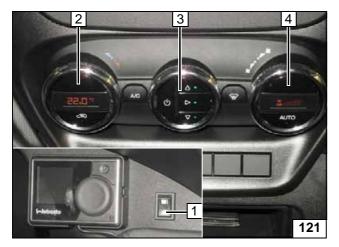
i

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Automatic air-conditioning



Feel the Drive

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