



Mercedes-Benz



Westfalia Equipment

Mercedes-Benz Westfalia Supplementary Manual



Welcome to the world of campers

Your new *Marco Polo* is a camper that will make you an independent traveller while providing you with a high level of safety and comfort.

Please read this supplementary manual before you set out on your first trip so that you can make the most of the camper from the very first day.

We have collected useful information to help you enjoy using your new *Marco Polo*.

Have a safe trip!

Mercedes-Benz Aktiengesellschaft

Information on the Supplementary Manual

The supplementary manual contains important information on the operation, care and handling of the camper equipment.

Looking after the camper and also regular care and service will help maintain its value and is also required in many cases for warranty claims.

This manual describes as much of the equipment planned at the time of going to press as possible.

The many practical tips should make it easier for you to use your camper safely and in an environmentally conscious way.

For your own safety please read the information on handling the gas system and the 12/230 V on-board electrical system.

You will find all general instructions on operating and handling of your vehicle in the Mercedes-Benz "Vito" operating manual.

Keep this supplementary manual in the vehicle so you always have it to hand. Should you sell your vehicle, remember to give this manual to the new owner.

Printed in Germany

The technical specifications and illustrations in this supplementary manual are subject to change.
No part of this manual may be reprinted, translated or reproduced without written permission.

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Printed on chlorine-free paper.

Information on the layout of this manual

Equipment marked with an * are only standard on certain models or are only available as accessories for certain models.

Our vehicles undergo constant development. We therefore reserve the right to alter forms, equipment and technology.

The reader is not entitled to make any claims based on the information in this supplementary manual.

Warning information in this supplementary manual

All text sections indicating possible risks to health or risks of accidents and injury are highlighted with a red warning sign and bold lines.

If you want to equip your camper with special accessories, for example, bicycle, ski or surf board racks, please use the accessories offered by Westfalia.

You will find these accessories at Mercedes-Benz Service Centres.

The safety, reliability and suitability of these accessories which have been specially developed for your camper have been checked – please also observe the information on vehicle safety in the “Vito” operating manual.

Finding your way around

This supplementary manual has been divided into 6 chapters:

- **Operation:** Information on handling the equipment
- **Operating Instructions:** Information on operating the equipment
- **Driving Instructions:** Practical advice on how to handle the vehicle
- **Self-help:** Help and information in case of emergencies
- **Technical Specifications:** Information on your vehicle equipment
- **Index:** Terms to help you find a topic quickly

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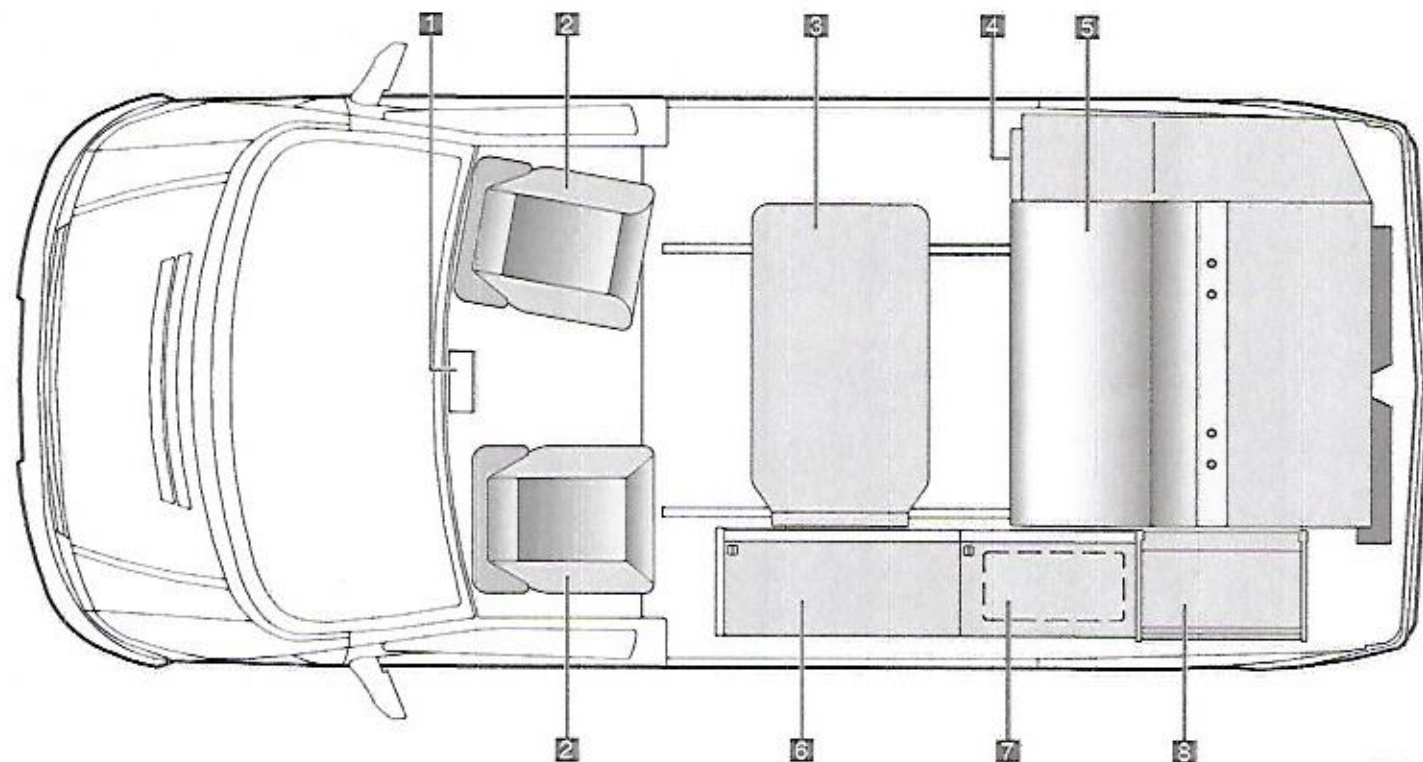
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Overview of the interior equipment



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This overview and the accompanying illustration on the previous page should provide you with an idea of the basic interior equipment.

In addition to the equipment indicated there is an additional battery in the seat case underneath the passenger seat.

Above the bench seat/reclining bench seat is the roof bed* which can be accessed once the pop-up roof has been opened.

From the outside you can access:

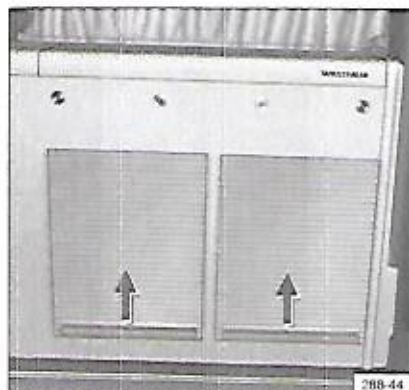
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Furniture locks

The stove and cooler cover and the door to the right in the luggage space are provided with furniture locks to prevent them from opening on the road. Pull the handle to open them.

It is easier to open the furniture locks if you push the cover or door downwards while you pull the handle.



Roller shutters

You can access the inside of the lower cupboards even when the dining table is set up if you push the roller shutters up as far as possible.

Open the sliding door on the linen cupboard by pulling it downwards with a slight jerk.

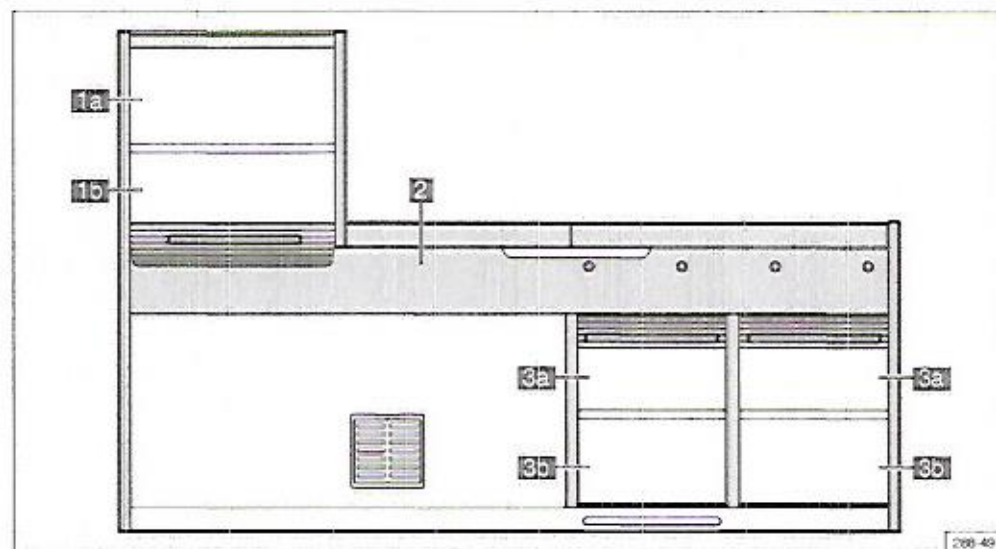
To close push the sliding door upwards as far as possible until it audibly locks into place.

The roller shutters should be closed on the road.

Loading the Vehicle

This camper is fitted with the latest safety equipment. Observe the following to benefit fully from this safety:

- Use the lower storage compartments for heavier items (groceries, cans etc.).
- The upper storage compartments are for lighter objects (clothes, underwear etc.).
- Bed clothes can be stored on the bed extension cushion behind the bench seat/reclining bench seat.
- The storage compartment accessed from the rear is intended for cases, drink crates etc.
- There is a lashing ring on each of the front seat cases. You can use them to secure bulky objects.

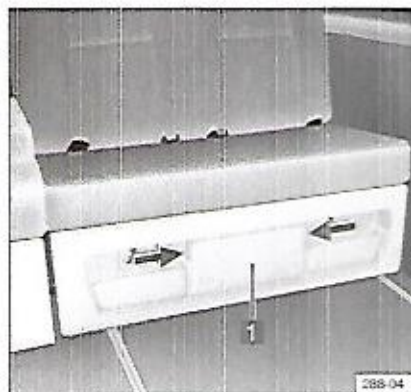


Loading Plan

We recommend observing the following maximum loading values for your camper for your own safety.

Storage compartment under bench seat	30 kg
Storage compartment under bed extension	25 kg
Luggage on bed extension (bed clothes)	3 kg

1 – Clothes compartments	
a) top	5 kg
b) bottom	5 kg
2 – Cooler	8 kg
3 – Storage compartments	
a) top	3 kg
b) bottom	5 kg

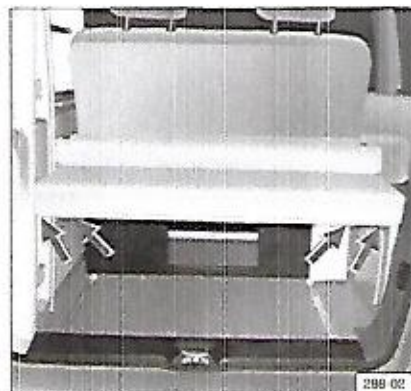


Opening for long loads

There is an opening in the centre of the storage compartment for long objects (skis etc.). You can also reach the opening for long loads from the living area. Remove the centre panel (1) on the bench seat/reclining bench seat by holding it on the side (note arrow) and pulling it out.

Inserting the panel

Insert the panel (1) in the slot underneath the bench cut-out and push the panel downwards gently into the cut-out until it locks into place.



Increasing luggage space

Push the bench seat/reclining bench seat forward until it locks into place. Remove the bed extension after removing the four knurled screws (see arrows). If you want to use the complete loading area, you can take the bench seat/reclining bench seat out of the vehicle – see page 37.

The storage compartment to the right inside the luggage compartment is provided for jacks, warning triangles, tools etc.

Sporting equipment rack*

There are mounting rails for sporting equipment racks on the roof. You will find the corresponding Westfalia accessories (surfboard, ski or canoe racks) at your Mercedes-Benz Service Centre.

Observe the instructions from the sporting equipment manufacturer.

Note:

- The **maximum roof load** when the roof is closed is **50 kg**.
- The **maximum roof load** when the roof is raised is **15 kg**.

The rail running along the right-hand side of the vehicle above the sliding door is used to mount an awning or a sunroof which are available as original Westfalia accessories.



Sunroof*

Opening and closing:

By turning the crank (1), the sunroof can be opened or closed in a continuously variable way.

The sunroof first opens slightly and then opens fully if you turn the crank further. The glass roof slides towards the rear onto the pop-up roof.

Note:

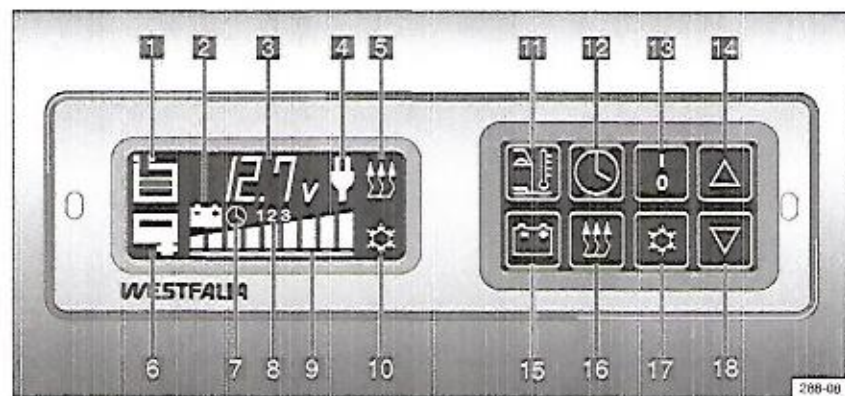
After rainfall, first drive a distance before you open the sunroof so the water that has collected in the joint between the frame and the glass roof is blown away.

Curtains

All windows have curtains running in rails. Once you have drawn the curtains you can secure them with snap fasteners.

The curtains for the driver compartment and sliding door lie unattached in the vehicle. The curtains are attached from the inside using snap fasteners. The driver compartment curtain over the windscreen is fastened additionally by folding down both sun visors.

The sun roof* can be equipped with a tinted film and an insect protection screen that are available as accessories.



Command centre

There is a command centre in the driver compartment above the interior light which can be used to monitor and control all important functions.

Depending on the vehicle model the command centre has the following indicators, symbols and pushbuttons:

1 - Fresh water level indicator

The level is indicated by three bars. There are approx. 7,5 litres of water left when the lower bar extinguishes.

2 - Symbol for battery operation

The symbol appears when the additional battery is the only power supply, i.e. not while the charger or generator is charging.

If the voltage decreases to 10,5 V due to the consumers which are switched on, the symbol will flash, and the cooler will switch off automatically.

3 - Display field (multifunction display)

The following will appear in this display field (the battery voltage is shown in the illustration) depending on which button you have pressed:

- Battery voltage of additional battery
- Supplemental warm-air heater* setting
- Remaining time for supplemental warm-air heater*
- Switch-on time for supplemental warm-air heater* programmed with the timer switch*
- Cooler temperature set
- Outside temperature
- Inside temperature
- Current time on digital clock

If there is a fault, the following will appear:

- a fault in the supplemental warm-air heater* indicated by a fault code e.g. F13 – Overheating.
- flashing display for battery voltage when there is a fault in the 230 V system or in the charger.

4 - Symbol for 230 V Mains voltage and charger

The symbol appears when mains voltage is applied and the charger is working. If the mains fails or the charger has a fault, the symbol will disappear.

Note:

If the battery voltage indicator flashes when the mains voltage is applied and shows a value above 15 V, there is a fault. Disconnect from the mains and contact a Mercedes-Benz Service Centre.

5 - Symbol for supplemental warm-air heater operation*

The symbol appears as soon as the supplemental warm-air heater is switched on.

If the supplemental warm-air heater has been switched on with the timer switch*, symbols 7 and 8 will also appear.

If there is a fault, the symbol will flash and a fault code, e.g. F13, will appear in display field 3.

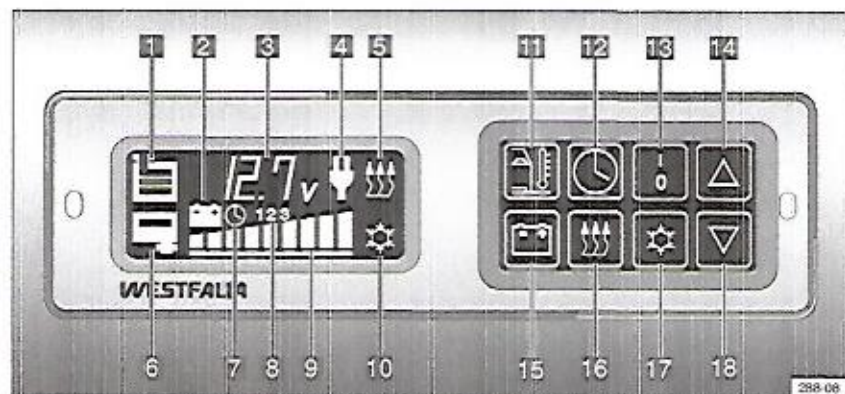
See the fault table (page 84) or contact a Mercedes-Benz Service Centre.

6 - Symbol for waste water level

The symbol will flash when the tank is full. If you press any button, the flashing will change to continuous display.

7 - Symbol for timer switch*

This symbol appears as soon as the timer switch is switched on. Symbol 7 will extinguish after you have switched it off.



8 - Supplemental warm-air heater switch-on times indicator

Each number (1, 2 or 3) represents a previously set switch-on time. For example, if there is one number, this means that you have programmed one switch-on time for the supplemental warm-air heater.

The timer switch is activated only when the number remains visible in the display field together with the 7 symbol and the supplemental warm-air heater starts at the programmed time.

9 - Additional battery capacity indicator

The available battery capacity is displayed in 10% steps. The indicator will initially appear for approx. 5 minutes after a consumer is switched on when the battery is being used. Only the first and last bar symbol is displayed beforehand.

10 - Symbol for cooler operation

The symbol appears as soon as the cooler is switched on. The symbol will flash if there is a fault.

11 - Pushbutton for outside temperature

Indicator 3 will remain until button 15 is pressed.

12 - Display supplemental warm-air heater switch-on times

When you press this button repeatedly, the numbers 1, 2 and 3 will appear one after the other in position 8 with the accompanying programmed switch-on times in display field 3.

If you have not programmed any switch-on times, the time 0:00 will appear.

13 - Cooler on/off

Pressing buttons 13 and 17 will switch the cooler on or off. The symbol 10 will appear after it is switched on. It will extinguish when switched off.

Setting the cooler temperature

Hold down button 17. Tapping button 14 will increase (button 18 decrease) the required temperature in the range of -20°C ¹⁾ to $+20^{\circ}\text{C}$ in steps of 1 degree Celsius. The temperature entered will appear in display field 3.

14 - Inside temperature

The inside temperature in degrees Celsius will appear in display field 3 when you press this button (only in conjunction with additional heater).

15 - Pushbutton for additional battery voltage

The battery voltage will appear in display field 3 after you press this button. It will remain displayed until you press button 11.

16 - Pushbutton for supplemental warm-air heater* level

The heating level of the supplemental warm-air heater will appear in display field 3 when you press this button.

17 - Pushbutton for set cooler temperature

The set required cooler temperature will appear in display field 3 while you hold down this button.

18 - Pushbutton for remaining time for supplemental warm-air heater*

Pressing this button briefly will call up the remaining time for the supplemental warm-air heater when activated with the timer switch*.

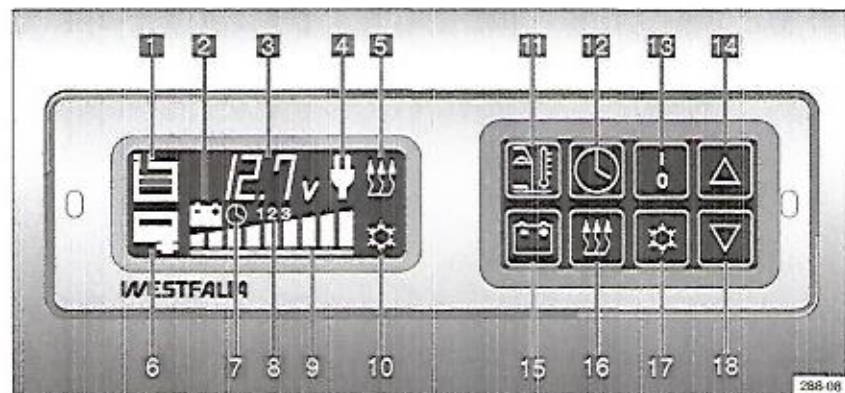
If you hold the button down for longer than one second, the running time will be shortened.

The heating must have been running for at least one minute before you can shorten the remaining time.

Illuminating the display

The indicators will be illuminated for approximately 3 minutes when you press any button. The lighting is also linked to the instrument illumination on the base vehicle. While the supplemental warm-air heater is operating the display is illuminated all the time.

1) Calculated at $+20^{\circ}\text{C}$ ambient temperature.



Supplemental warm-air heater* (manual operation without timer switch)

Switching the supplemental warm-air heater on



Danger!

**The supplemental warm-air heater
must not be switched on in closed
rooms. Danger!**

The supplemental warm-air heater is switched on by pressing buttons 13 and 16 simultaneously. It will then be in continuous operation. Symbol 5 will appear in the display field when the supplemental warm-air heater is switched on.

Setting the supplemental warm-air heater level

To set the required heating level hold down button 16 and increase the heating level in steps ranging from 10 to 30 by tapping button 14 (button 18 to decrease) at the same time.

If you set the heating level while the supplemental warm-air heater is running, it will take a while for the new setting to take effect.

Once the set heating level has been reached, the temperature is kept approximately constant by a thermostat. The thermostat is in the column covering next to the sliding door.

Note:

The air intake opening for the supplemental warm-air heater is at the bottom of the kitchen cupboard underneath the left-hand storage compartment.

Do not use this area to store plastic bags, cases or other objects as you may block the air intake opening and the supplemental warm-air heater will switch off.

The exhaust port on the vehicle floor behind the driver's seat should not be blocked either as the supplemental warm-air heater will also switch off.

Switching the supplemental warm-air heater off



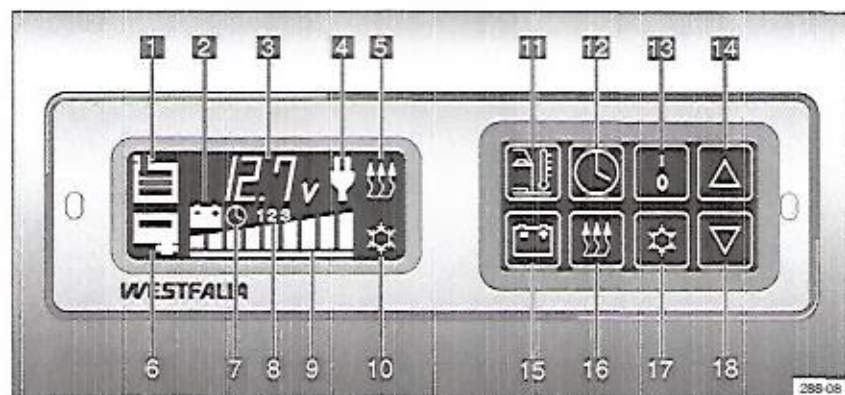
Danger!

The supplemental warm-air heater must be switched off when you refuel the vehicle.

Press buttons 13 and 16 simultaneously to switch off the supplemental warm-air heater. Symbol 5 will disappear from the display field.

The fan will continue to run for a short time after the heater has been switched off to cool it down faster.

You do not need to wait for the fan to stop when you are refuelling.



Timer switch* for supplemental warm-air heater*

The supplemental warm-air heater will only start at the programmed switch-on times when the digital clock is set correctly and the timer switch is activated.

Setting the time

Hold down buttons 12 and 16 simultaneously. The clock will be called up and a time will appear in display field 3 with a flashing "colon".

Set the time by pressing buttons 14 and 18 simultaneously. Release the buttons once you have made the setting. The current time will remain in display field 3 until you press any button.

Programming switch-on times

The correct time must be set before you program the switch-on times.

Select one of the numbers in position 8 under which the switch-on time is to be programmed with button 12. Hold down button 12 until the required switch-on time is set.

Set the required switch-on time for the supplemental warm-air heater by tapping or holding down buttons 14 or 18. The switch-on time will be stored under the corresponding number when you release the buttons.

Please note that the switch-on time is only pre-programmed and the supplemental warm-air heater cannot start yet.

If you press button 12 again, you can program another switch-on time under the next number.

Activating the timer switch

You should be able to see a number in position 8. Press buttons 12 and 13. Symbol 7 will appear. The supplemental warm-air heater will start at the programmed time and symbol 5 will appear.

When the ignition is switched off the supplemental warm-air heater will run for a maximum of two hours after each programmed switch-on time and will then switch itself off again.

Up to three switch-on times can be activated per day. These times will then run sequentially according to the time – no matter what order they were programmed.

The supplemental warm-air heater will start each day at the programmed time as long as symbol 7 and a number in position 8 can be seen.

Deactivating the timer switch

The timer switch is deactivated with buttons 12 and 13. Symbol 7 will disappear. If the supplemental warm-air heater was being operated with the timer switch, symbol 5 will also disappear.

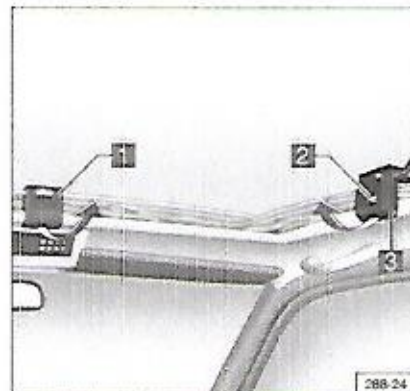
Pop-up roof



Danger of accident!

- For reasons of safety the vehicle must only be driven when the roof is completely closed and locked and not when the roof is raised.
- The roof should only be unlocked and raised when the vehicle is parked.

On vehicles with a bunk bed* you can obtain sufficient standing height by raising the roof and hooking up the front bed base (see page 27). You can access the double bed in the roof space after you lower the bed base.

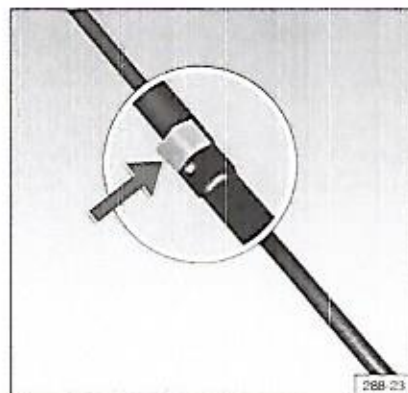


Raising the roof

- Push the bracket (1) in the direction of the arrow.
- Push up the locking button (2) on the side locking mechanism.
- Fold out locking mechanism (3). The locking mechanism is held open by spring force.
- Push the roof up until the gas springs on the sides hold the roof open by themselves. Make sure that the lock on the right-hand gas spring locks into place.

Note:

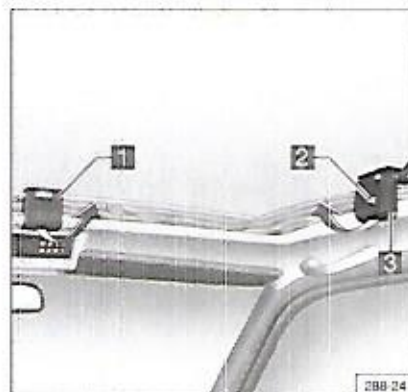
- **Only open or close the pop-up roof when the tailgate is closed.**
- Before you open the pop-up roof check whether there is sufficient space above the vehicle (watch out for trees, roofs etc.).
- It is better to open a window or door when you raise the roof as underpressure is created in the vehicle and it becomes difficult to open.
- The **maximum roof load** when the roof is raised is **15 kg**.



Closing the roof

Before you close the pop-up roof, the bed base* (if fitted) must be lowered as you will otherwise not be able to close the roof or may damage the roof.

- Unlock the right-hand gas spring by pressing against the gas spring (note arrow) and pulling down the roof at the front with the retaining strap.
- Lower the roof evenly.
- Fold the tent together and press it evenly into the corners so it does not become trapped in the mechanism or at the sides between the vehicle and the roof.



- Push the locking mechanism (3) until it locks into place. You should hear the safety button (2) lock into place.
- Push the retaining strap to the side into the tent and push the bracket (1) until it locks into place.

Note:

- Open a window or a door when you close the roof as the overpressure created can inflate the tent and cause it to become caught.
- To prevent mould stains forming on the tent fabric make sure that it is dry before you close the roof.
If you do have to close the roof when the tent is wet, raise the roof as soon as possible to dry the tent.
If you do not use the roof for prolonged periods, open it from time to time to air.
- If you do not have a bunk bed*, you can use the rear area as a storage compartment for light and soft objects (towels, bed clothes etc.).

Window in pop-up roof

When the roof is raised, you will also have windows in the sides of the tent. You can use these to ventilate the vehicle without letting insects get in.

The windows are opened with the zips. You can open the windows completely or partly depending on the zip position.

The insect protection screen is permanently sewn in; it cannot be opened.

Note:

Close the side windows before you close the pop-up roof to prevent the tent from becoming damaged.

Double bed* in pop-up roof

The bunk bed has space for two people. If small children are to sleep in the bunk bed, a safety net* must be fitted.

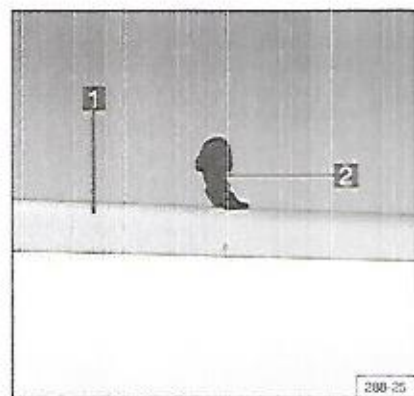


Danger of accident!

- Small children must not use the bunk bed if there is no safety net.
 - Pull the bed base to check whether it is safely locked into place after being raised.
-

How to get onto the bunk bed?

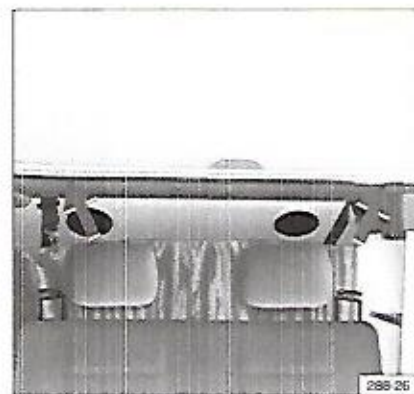
Push the front seats into the driving position and lock. Step carefully onto the front seat (never step on the armrests). Support yourself on the bed base as you climb into the bunk bed. Climb down carefully from the bed – never jump down onto the seats.



Folding the bed up

When the roof is raised, the bed base (1) can be lifted up and attached to the pop-up roof with the retaining strap (2). This increases the headroom in the living area.

To lower the bed base lift it slightly, unhook the retaining strap (2) and lower the bed base onto its rests.

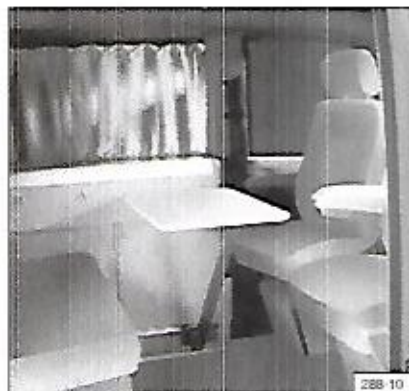


Removing the bed base

If you do not need the bed base, you can take it out by lifting it forwards while it is folded up.

Installing the bed base

Lift the front of the bed base and insert it in the two openings (note arrows) on rear part of the bed using the metal tabs. Next place the mattress on the bed base so the roof can be closed properly.



Swivelling front seats



Danger of accident!

- Only adjust the seats while the vehicle is parked.
- The swivel seats must always be set in the direction of travel and locked securely in position while on the road.
- You should hear the seat lock click into position.

The front seats can be swivelled around and used as part of the living area. Proceed as follows to swivel the seats around:

- Open the driver's or passenger door.
- Align the seats as centrally as possible in the seat rails before you turn them around and tilt the back rest forwards.
- Move the driver's seat lengthways and turn the seat at the same time.

Always swivel the driver's seat 180° so that the driver's door can be closed again.

The unlocking lever for the swivelling mechanism is at the front of the seat above the bar for lengthways adjustment.

Passenger seat (illustrated): move lever (1) in direction of arrow.

Driver's seat: Push the corresponding lever towards the centre of the vehicle.



Dining table



Danger of injury!

For reasons of safety the table should be attached in the holder provided while on the road.

The holder for the table is in the sliding door panel.

To remove it lift the table (1) slightly and pull out the table downwards.

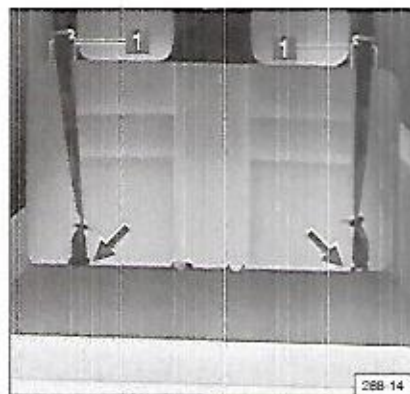


Setting up the dining table

- Insert the table (1) bolts into the receptacles (note arrows) on the kitchen cupboard. Tilt the table approx. 45° **downwards**; then lift the table (1) to the horizontal position.
- Release the table leg (3) from the lock on the underside of the table. Press the button (2) and pull the table leg outwards slightly to release the lock.
- Fold down the table leg (3) and pull apart until the button (2) locks into the second hole on the side of the table leg.
- Lift the table (1) slightly, fold the table leg (3) downwards until the you can insert the end of the leg in the seat rail (4).

Stowing the dining table

Stow the dining table in reverse order. Make sure that you push the table leg securely into the lock on the underside of the table.



Seat belts

The automatic three-point belts on the bench seat/reclining bench seat have the following special feature:

The belts are equipped with two inserts of different sizes. Four seat belt locks are located on the seat case.



Danger of injury!

- When you use the seat belts make sure that both lock inserts are securely locked into place – test by pulling on both ends!
 - Always hook the seat belts into the belt guides (1) before attaching.
-
- To attach the seat belt, you must place the insert at the end of the belt into the belt lock (note arrows) that is in a holder.
 - Next hook the seat belts into the belt guides (1).
 - You can then attach the belt as you normally do.

Note:

- To prevent somebody from accidentally pressing the button, the holder must always cover the lock.
- If the bench seat/reclining bench seat is in driving position, the seat belts should always lie on the seat cushions so that they are readily accessible.
- When the bench seat is in sleeping or dining position, hang the seat belts in the holders provided.



Bench seat/Reclining bench seat



Danger!

While driving, the bench seat must be fastened securely in the guide rails and locked into position 1 or 2 so they cannot cause an accident or injury when the vehicle is braked sharply.

In addition, the function of the seat belts depends upon the bench seat being securely fastened.

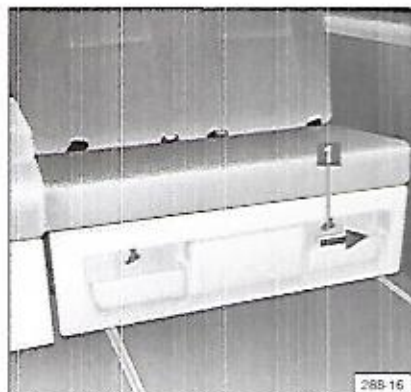
You can set the bench seat/reclining bench seat to two positions:

Position 1 - Driving position

Position 2 - Driving position with increased luggage space.

Position 3 - Sleeping and dining position

To easily slide the bench seat/reclining bench seat in the guide rails, the T-shaped sliding blocks of the bench seat should be cleaned occasionally and treated with a non-greasy slip agent (e.g. silicon spray).



Press the lever (1) at the front of the bench seat to the side before and during the seat adjustment. The seat/reclining bench seat can be adjusted in two ways:

- by moving the bench seat with your body, (as you normally do with car seats) or
- by moving with your hand while standing in front of the bench seat.

Reach into the left and right compartment so that your fingers can reach the metal rail that is located somewhat at the rear.

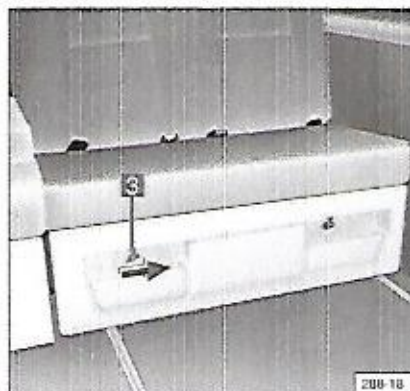
Never use the compartment panels to move the bench seat.

Folding the bench seat



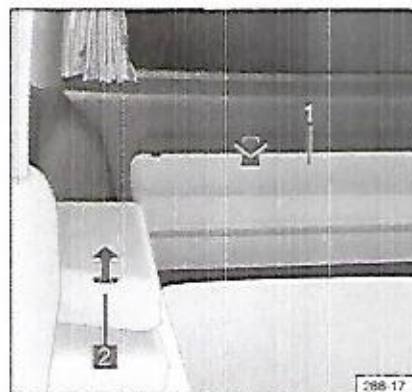
Danger of injury!

Do not use the folded reclining bench seat while on the road.



Move the seat belts out of the way:

- Disconnect the belts from the belt locks.
- Hang the belts in the holders.
- Insert the belt lock between the seat cushion and the back rest.
- Push the bench seat into "sleeping position" and remove the head rests. Place the back rest at a slight angle.
- Push the unlocking lever (3) to the side and lift the seat cushion at the front slightly.
- Hold the recessed grip underneath the seat cushion and pull the seat cushion forwards pushing the back rest to the back at the same time.



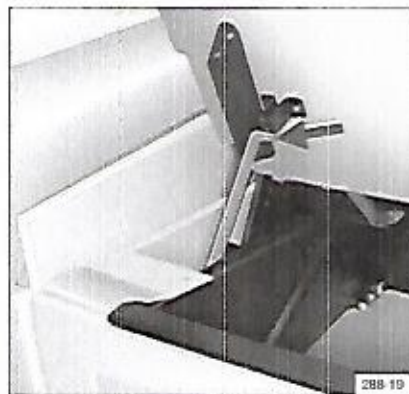
- Unfold the bed extension cushion (1) forwards.
- Move the upper part of the side armrest (2) to the rear.

Note:

- Make sure that none of the objects in the storage space become caught.
 - You can also fold out the cushion (1) when the bench seat/reclining bench seat is in position 2 (see page 32).
- This will provide you with a larger shelf space.

Raising the bench seat

- Fold out the cushion (1) and the top part of the armrest (2) again (see previous page).
- Lift the seat cushion at the front until you hear the seat fitting lock into place. The seat cushion and back rest should now be almost at a right-angle to one another.
- Fit the head rest again.
- Push the seat cushion down so the back rest is put upright again.
- Fasten the seat cushion securely in the locking mechanism.
- Arrange the seat belts again (see page 30) so that they can be used at any time by the passengers.

**Storage space under the bench seat/reclining bench seat**

The space under the seat cushion can also be used as storage space.

The seat cushion can be held in open position using the support (note arrow) on the seat case.

The holder must fit securely into the notch on the support.

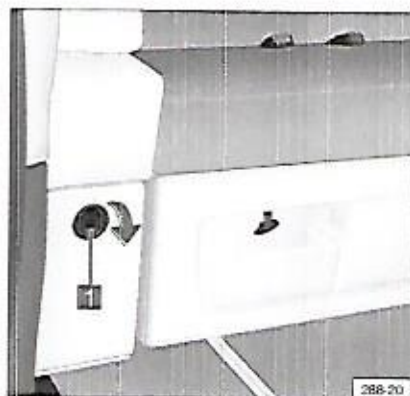
Removing the bench seat/reclining bench seat



Danger of injury!

- For safety reasons the bench seat must be in the guide rails and locked in position 1 or 2 (see page 32).
 - Passengers, particularly small children, must not sit or stand in the aisles while the vehicle is being driven. Every person must wear seat belts.
-
- Disconnect the belts from the seat belt locks.
 - Remove the stop in the right-hand guide rail.
 - Push the bench seat forwards completely until you can lift it out of the groove in the guide rails.

The bench seat is installed in reverse order.



Waste bin

There is a waste bin next to the bench seat/reclining bench seat. To open pull the lock lug (1) and tilt the bin forwards.

Once open, the waste bin can be unhooked at the bottom for emptying. You can also line the bin with a plastic rubbish bag.

To close tilt the waste bin back until you hear it lock into place.

Additional bench seat*

You can equip your vehicle with an additional bench seat. This bench seat will allow you to transport a total of 6 persons. You can obtain the bench seat from a Mercedes-Benz Service Centre.

The bench seat is fitted and secured in the seat rails. This procedure is described in the assembly instructions which come with the additional bench seat.



Danger of injury!

On the road the additional bench seat must be fitted in the seat rails and fastened securely so there is no safety risk when the vehicle is braked sharply.

In addition, the function of the seat belts depends upon the bench seat being securely fastened.

Note:

If you install an additional bench seat, you will not be able to use the standard equipped bench seat as a bed.



Sink unit

It is better to set the driver's seat backrest upright or turn the driver's seat around before you open the kitchen cupboard cover. When open, the cover is supported by a spring support on the side.

On the kitchen cover there is a draining board (2) which you can fold down when you wish to wash dishes.

You can set the tap to several different positions. To switch on the water pump turn the knob (1) on the tap. A water pump fitted to the fresh water tank will then supply the water to the tap.

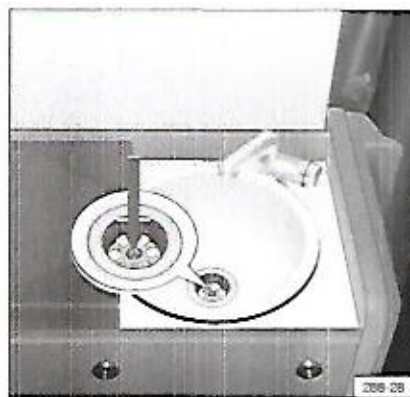
The water pump is switched off by turning the tap knob (1) until it stops.

Note:

Do not allow the water pump to run dry as it will be damaged.
Before you fold down the kitchen cover, make sure you lower the tap.

Filling the fresh water tank (page 54)

Emptying the waste water tank (page 58)

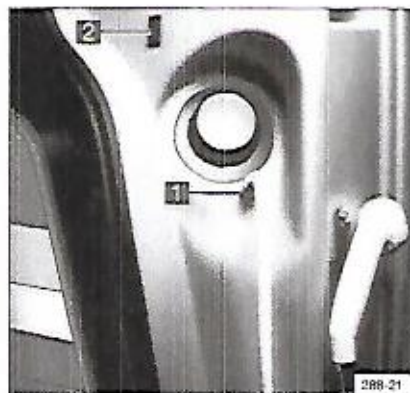


If the water trap under the sink becomes clogged, it can be cleaned.

- First remove the gas cooker – see page 64.
- Remove the screw (note arrow) completely and take off the upper part. Hold securely onto the lower part of the drain. Reach through the cut-out section for the gas cooker.
- You should now be able to clean the drain. Note that the lower part is connected securely to the outlet hose.

Note:

Place a suitable container under the trap to catch any running water. Open the right-hand roller shutter and place a suitable basin in the upper right storage compartment and close the roller shutter again.



Outdoor shower*

Press the shower hose onto the nozzle (1) until it locks into place. Press the rocker switch (2) to switch the water pump on and off. The water pump supplies water to the shower head.

Note:

The water pump switched on with the sink tap also conveys water to the hand-held shower. Pull the shower hose off the nozzle (1) again after showering to prevent water from running out. There is a return valve in the nozzle (1) which is bypassed when the shower hose is attached.

Therefore only use the rocker switch (2) when the shower hose is connected.

Gas cooker

General information



Danger!

- Only cook when the pop-up roof is open.
- Open the windows and the side windows in the pop-up roof while you are using the cooker.
- Do not use the cooker flames as a heater.
The oxygen consumption of the flames will cause an oxygen deficiency if the camper is not sufficiently ventilated.
- Close all gas stop cocks if you are not going to use the cooker for longer periods of time and always before starting a trip.

The grid can be removed easily when you need to clean the cooker. It snaps out easily.

Observe the following for optimum use of energy:

- 16–20 cm diameter pan size.
- Do not use pans with rounded bases.
- Place the pans in the centre over the flame.
- The flame should not extend over the edge of the pan.



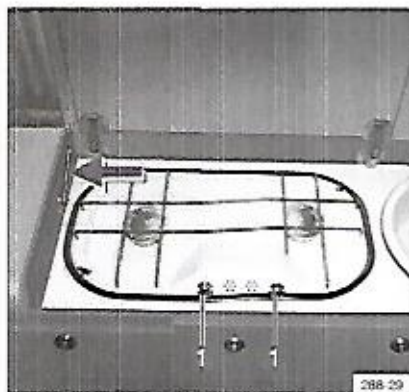
Danger of accident!

Observe the following safety precautions:

- Make sure that there are no flammable food remains, e.g. grease or oil, near to burner.
- Keep towels, items of clothing, paper, pieces of wood or other flammable materials away from the cooker. This also applies to pieces of plastic which will not only burn but also melt.
- Do not overheat oil or fat – risk of fire!
- Do not leave saucepan and frying pan handles protruding over the edge of the cooker otherwise they may be accidentally knocked off the cooker.
- Never leave the cooker unattended especially when there are children in the vehicle!
- Only use dry ovencloths to hold hot pots and pans. Damp ovencloths can become very hot and cause burns!

You will have to open the following gas stop cocks before you start cooking:

- Main stop cock on the gas bottle – see page 61.
- Stop cock for the gas cooker – see page 62.

**Note:**

- If you have opened all valves and there is still no gas at the gas cooker, check the gas supply.
- The left-hand burner has a higher output rating than the right one – see also the Technical Specifications, page 89.

Igniting burners:

- Open up the kitchen cupboard cover and fold up the draining board. The cover is supported with a spring support (note arrow) on the side.
- Push the rotary switch (1) for the required burner and turn it to the left.
- Ignite the gas at the side of the burner.
- Once the cooker flame is burning, hold the rotary switch in for a further 15 seconds to bridge the safety mechanism. If you release the rotary switch too early, the flame will extinguish but can be ignited again immediately.
- Once the burner has been ignited properly, you can regulate the flame with the rotary switch:
 - “Large flame” symbol – high setting
 - “Small flame” symbol – low setting

Finishing cooking:

- Turn the rotary switch (1) fully to the right.
- Close the stop cock for the gas cooker – see page 62.

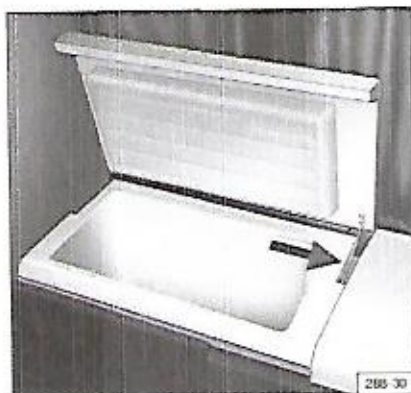
Cooler

General tips for cooler operation

- The cooler should be pre-cooled before food and drink is stored inside. Take the food and drink to be stored in the cooler out of your household refrigerator just before you start the trip.
Do not place hot food or drinks in the cooler when it is switched on.
- Food and drinks should only be stored in the cooler in air-tight containers.
- A basket is available as an accessory to allow you to better organise the food and take it out more easily.

Advantages:

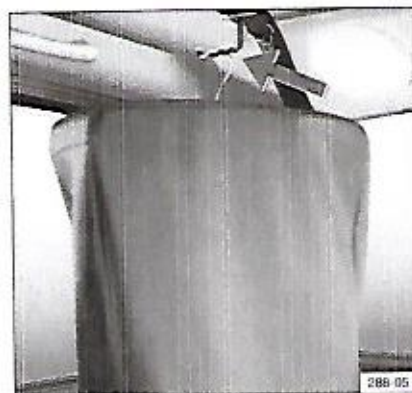
- Food does not dry out.
- Drinks do not evaporate and are not spilled while on the road.
- There are no unpleasant odours.
- The formation of condensation (ice) on the evaporator is slowed down (the formation of ice on the evaporator substantially reduces efficiency, increases the power consumption and reduces the cooling output!). Opening the cooler frequently also causes excessive ice formation.
- The containers should also be as small as possible since many small containers can be stored more efficiently than a few large ones.
- Do not pack the cooler too full which prevents the air from circulating.
- Cleaning the cooler – see page 68.



The cooler can be reached once you open the left-hand kitchen cupboard cover. The cover is held open by a spring support (note arrow). Before using the cooler for the first time, clean it with lukewarm water supplemented with a mild cleanser.

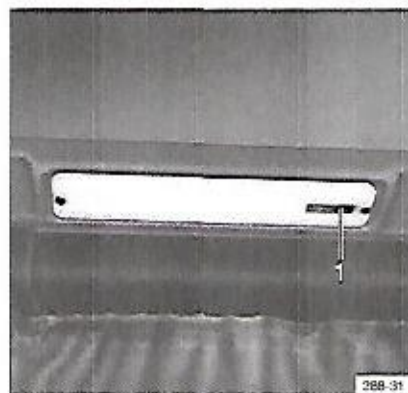
The cooler works independently of location and independently of the engine and ignition. The cooler is operated from the maintenance-free additional battery.

The cooler is switched on and off and regulated at the command centre – see page 17.



Linen cupboard/Clothes bag*

The linen cupboard to the left of the cooler is not suitable for storing suits, dresses etc. A clothes bag which is available as an accessory can be hung on the hook (note arrow) provided at the rear to the left. You can obtain this clothes bag which is part of the Westfalia line of accessories from your Mercedes-Benz Service Centre.



Interior lights

There are transistor lamps fitted at the following points in the vehicle:

- Above the kitchen cupboard in the roof frame covering and
- in the rear area in the roof frame covering.

The transistor lamps are switched on and off with the rocker switch (1). Each lamp has two different switch settings as follows:

Switch position 1: approx. 60% luminous power

Switch position 2: approx. 100% luminous power

Operating instructions

Power sockets	48	Cleaning the water tanks	59
Fault current breaker	49	Gas system	60
Electronic installation	50	Removing the gas cooker	64
Supply plug	51	Supplemental warm-air heater*	66
Battery charger	52	Care of the vehicle	68
Additional battery	52	Winter operation	71
Water supply	54	Precautions in stormy weather	72
Water drainage system	57		



Sockets

There is an earthed socket for 230 V consumers with a maximum power consumption of 2000 W.

The socket (1) is on the right-hand side panel of the kitchen cupboard behind the driver's seat.

Note:

- This socket is childproof. You will therefore notice resistance when you insert a plug.
- The 230 V sockets are ready for operation as soon as there is a mains connection, and the fault current breaker is switched on.

There is a socket (2) on the right-hand side panel of the kitchen cupboard with a maximum power consumption of 90 W for 12 V consumers.



Fault current breaker

The fault current breaker (r.c.c.b.) is on the right-hand side panel of the kitchen cupboard behind the driver's seat.

In order to reach the switch more easily we recommend sliding the driver's seat slightly forward.

The fault current breaker is not just used to protect passengers but also the cables.

The circuit breaker trips at fault current of 10 mA to protect passengers.

To protect the cables, it trips when there is an overload (above 13A) or a short-circuit.

The switch is activated when the switching bridge (1) is at the top.

Once there is a proper 230 V connection to the vehicle you can check to see if the fault current breaker is working by pressing the white test button (2). The switching bridge (1) should then jump downwards.

Push the switching bridge (1) upwards to switch it on again.

Each time you connect the vehicle to the electrical mains, check the circuit breaker afterwards.

Electronic installation

There are two separate power supply circuits in the vehicle:

- 12 V DC
- 230 V AC

12 V system

The following consumers are supplied by the additional battery via the 12 V system:

- Cooler including cooling fan.
- Supplemental warm-air heater* (only control and fan function).
- Water pump.
- Interior lights except the interior lamp in the cockpit – see page 46.
- Command centre – see page 14.
- Socket – see page 48.

230 V system



Danger!

Only qualified electricians are authorised to carry out work on the 230 V system.

The following consumers in the vehicle are supplied via the 230 V system:

- The 230 V socket – see page 48.
- The battery charger – see page 52.

Note:

- The consumers supplied via the 12 V system can also be supplied indirectly via the battery charger.
- The additional battery should be charged with the 230 V connection to maintain its capacity. This is particularly important when the vehicle is not driven for longer periods of time, e.g. during the winter.

Supply plug

The 230 V supply uses a plug and coupler conforming to CEE 17 (European Standard).

The supply plug is on the left-hand side of the vehicle next to the driver's door. Connect to the mains as follows:

- Unlock the flap (1) at the bottom and fold it up.
- Connect the mains cable coupler to the supply plug, lift the flap on the coupler until it locks in behind the catch on the plug.
- Fold the flap (1) down to protect the plug connection.

The plug connection is disconnected in reverse order. Make sure that you push the blue lever (note arrow) down before you disconnect the coupler.

Battery charger

The battery charger is located underneath the cooler. It is fully automatic:

Once the mains has been connected and the fault current breaker is switched on, the charger will load the additional battery and keep the load level nearly constant when the maximum battery voltage has been reached.

Note:

- While the vehicle is been driven, all batteries are charged from the engine alternator.
- The battery capacity is limited during a longer stationary period without charging. You should also be aware that the supplemental warm-air heater, for example, can no longer be switched on if there is less than 11 V of power.

How to check the charge level of the additional battery is described on page 16.

Additional battery

The additional battery is under the passenger seat.

You can reach the additional battery once you remove the coverings. Loosen the turn-lock fasteners by turning them one quarter turn.

The additional battery is maintenance-free and is protected against exhaustive discharge for at least 4 weeks; it should, however, be charged during this time.

If there are exhaustive discharges over a period of more than 8 weeks, the battery can be damaged beyond repair.

You can avoid exhaustive discharges by removing the fuses for the following 12 V consumers after charging:

- 1 – Command centre
- 2 – Water pump
- 4 – Supplemental warm-air heater* and
- 6 – Cooler

This only applies if you do not use your vehicle for a longer period of time.

Charging the additional battery

The additional battery is charged in the following way:

- Connect 230 V system – see page 51.
- Switch on fault current breaker – see page 49, or
all batteries (starter and additional battery) are charged by the engine alternator while the vehicle is driven.

The additional battery should be also be charged in the following way:

- On a regular basis by the 230 V connection.
- After the battery has not been used for a longer period of time (e.g. seasonal use) before you set out on a trip.
- 4 weeks after the last charge by the built-in battery charger for at least 48 hours.



Danger of accident!

Only a gel battery (battery with a bonded electrolyte) of the same type may be used to replace the additional battery.

For reasons of safety do not use a battery with liquid electrolyte. The battery compartment is not suitable for batteries with liquid electrolyte.

Water supply

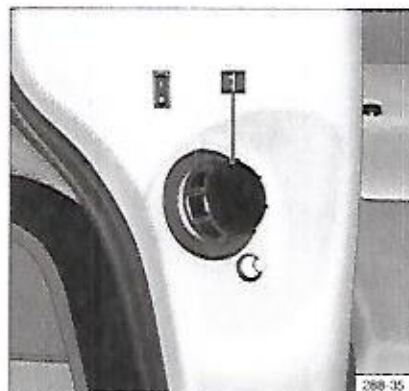


Health risk!

- Only use fresh water from the public water supply, not from springs and rivers (impurities, waste).
- When travelling abroad use sterilisers (available from camping shops and chemist's shops) to be on the safe side.
- Do not leave the water in the fresh water tank without refilling – risk of germs!

The following consumers are supplied with water from the fresh water tank:

- the tap in the sink and
- the outdoor shower* at the rear.

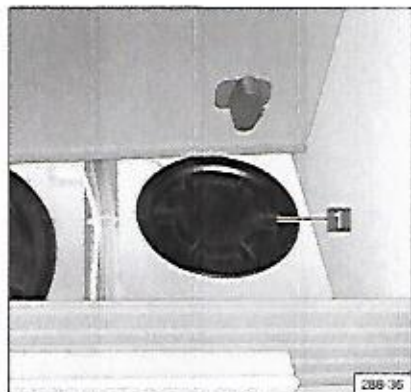


Filler opening for fresh water

The fresh water filler opening is to the rear left inside the vehicle. It can be accessed by opening the tailgate.

You can fill fresh water once you open the cap (1). Use a funnel or water hose for filling.

Before filling make sure that the fresh water tank draining valve is closed – see page 56.



Fresh water tank

The fresh water tank is installed at the bottom of the linen cupboard next to the bed extension. It is covered by a shelf.

The electrical water pump is on the fresh water tank behind the lower linen cupboard panelling. It can be switched on by opening the water tap or by pressing the rocker switch next to the fresh water filler neck.

The fresh water level is measured by a sensor fitted in the tank and displayed on the command centre.

The cleaning hole on the top of the tank can be reached as follows:

- Pull the linen cupboard roller shutter down completely and take the lower shelf out.
- Unscrew the lid (1) off the cleaning hole by turning it in an anticlockwise direction.

Emptying the fresh water system

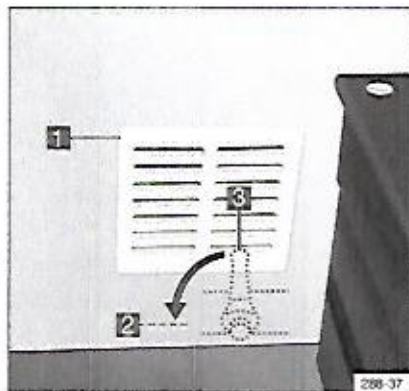


Danger of accident!

The draining water flows out under the vehicle floor. Risk of black ice in freezing weather!

The fresh water system should be drained to prevent the water from becoming stagnant if you do not use the water supply for several weeks.

The system should also of course be emptied if the vehicle is not continuously heated during cold spells.



The drainage valve is under the linen cupboard behind the panel (1). This panel is next to the bench seat. You can reach the screen through the luggage compartment after you push the bench seat forwards.

To drain the fresh water tank remove the panel (1) and use the lever located behind it.

2 – Valve open.

3 – Valve closed.

Drain the hose lines between the fresh water tank and the taps as follows:

- Remove the fuse (2) – see page 82 – so that there is no water flow in the pump.
- Open the drainage tap and the water in the line will flow back into the fresh water tank.

The water can then be drained through the base drain. After draining, close the drainage valve again so the fresh water does not accidentally flow out the next time you fill the tank.

Note:

If you are not going to use the system for a longer period of time after draining, leave the cleaning opening lid off for a few days so that the moisture remaining in the tank can evaporate.

Water disposal

The waste water from the kitchen unit is collected in a waste water tank holding approximately 22 litres which is installed behind the kitchen cupboard.

Before you let water flow into the tank, make sure that drainage valve (bottom left of kitchen cupboard – see page 58) has been closed properly.

Environmental tip:

- Empty the tank in good time so that the dirty water does not flow out of the overflow. There is an indicator on the command centre showing when the waste water tank is full – see page 15.
- The tank can be emptied directly at many camping sites or public facilities.

The sites and towns in Germany with suitable facilities are listed in the information for recreational vehicle users (published by: VDWH/Verband Deutscher Wohnwagen- und Wohnmobil-Hersteller e.V., Association of German Mobile Home and Caravan manufacturers) and camping guides.

If there are no such facilities available, the waste water should be collected in suitable containers and then poured into the public sewage system (not into the rainwater system).

**Emptying the waste water tank**

The drainage valve is located at the bottom left of the kitchen cupboard.

- 1 – Valve open.
- 2 – Valve closed.

To properly dispose of the waste water, we recommend placing a basin under the vehicle.

Place this basin on the left-hand side underneath the vehicle just in front of the rear jack fitting.

After draining, be sure to close the drainage valve in the kitchen cupboard again.

Note:

If you do not use the vehicle in the winter, drain the water system completely.

Cleaning water tanks



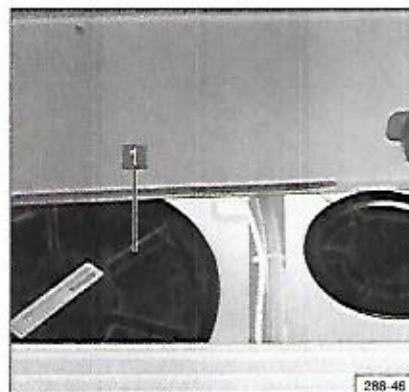
Health risk!

Never use conventional cleaning agents to clean the fresh water tank!

If the water in the fresh water tank has become stagnant and the waste water in the waste water tank is not drained in good time, this may result in unpleasant odours.

In this case clean the water tanks as follows:

- Drain water tanks.
- Add a steriliser available from camping shops or chemists. Follow the mixing instructions on the steriliser package.
- Fill both water tanks with fresh water and allow the mixture to act for a while.
- Drain the mixture and rinse out the water tanks and pipes with fresh water.



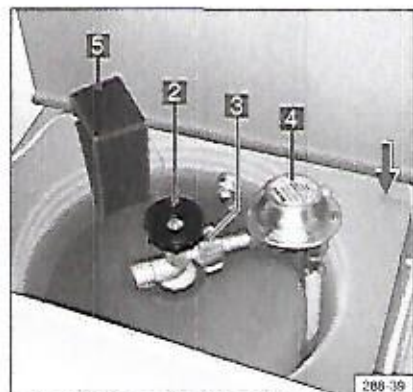
Gas system

Only the gas cooker is supplied by the gas system. The gas bottle for use with the gas system is not included with the vehicle.

Only type 904 butane gas bottles from "Camping Gaz" may be used in combination with a bottle safety valve.

Gas bottle holder

The gas bottle holder is at the bottom of the linen cupboard. It is covered by a shelf. Maximum one gas bottle (1.8 kg) can be used in this holder. Unscrew the lid (1) to reach the gas bottle. The connected gas bottle must be fitted with a bottle safety valve and a pressure regulator which reduces the operating pressure to **30 mbar**.



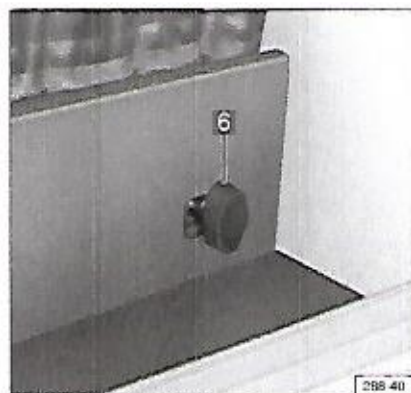
- 2 – Bottle safety valve with main shutoff valve
- 3 – Union nut - left-hand thread!
- 4 – Pressure regulator (30 mbar)
- 5 – Clamping wedge

Changing the gas bottle

- Remove the shelf and unscrew the cover (1).
- Close the shutoff valve (6) – see next page.
- Close the main shutoff valve (2) on the gas bottle.
- Loosen the union nut (3) by turning it in a clockwise direction.
- Take out the clamping wedge (5) together with the gas bottle.

Full gas bottles are installed in reverse order.

Make sure that the screw connection (3) to the bottle safety valve is tight and the pressure regulator (4) is pointing to the raised part (note arrow) on the gas bottle holder. The gas bottle must also be secured against rotation with the clamp wedge (5). Close the gas bottle holder tight with the lid (1).

**Gas shutoff valve**

The shutoff valve (6) for the gas cooker is at the bottom left of the linen cupboard. You can reach it after opening the roller shutter.

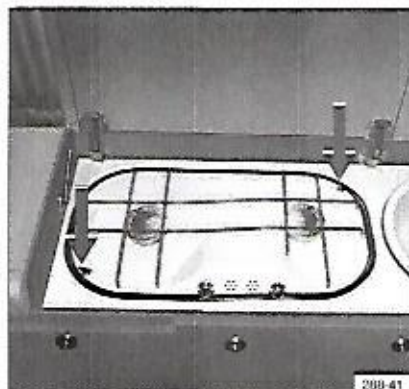
The shutoff valve is shown in closed setting.



Danger!

Observe the following instructions in the interest of your own safety:

- The gas must never be connected to the public or long-distance gas supply network.
- Do not make any modifications to the gas system.
- In ambient temperatures below 0 °C, butane no longer retains its gaseous form.
- For safety reasons the system must also be checked for leaks and proper functioning every 2 years and each time the gas system screw connections are opened by authorised technicians.
- The gas hose between the pressure regulator and the gas system should be checked on a regular basis. It should be replaced immediately if there actually is a leak or you suspect one.
Make sure that the new hose corresponds with the standard printed on the old one.
- The floor vent in the gas bottle holder must not be blocked (e.g. by snow slush, cleaning cloths) so gas can escape if there is a leak. Check the floor vent at regular intervals!
- The gas bottle holder must be sealed from the vehicle interior and closed securely.



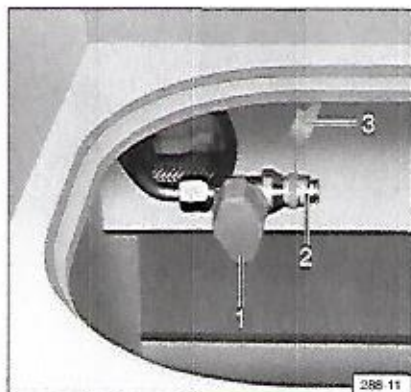
Removing gas cooker



Danger of injury!

Only remove the gas cooker once it has cooled down completely.

Once you have removed the two wing bolts (note arrows) you can lift the gas cooker far enough to disconnect the quick-fastening coupling.



- Close shutoff valve (1) and shutoff valve (6, – see page 63).
- Push back the locking ring (2) on the quick-fastening coupling, pull out the gas cooker hose at the same time and then take out the cooker with the burner heads.
- Next press the cap (3) onto the open end of the quick-fastening coupling.

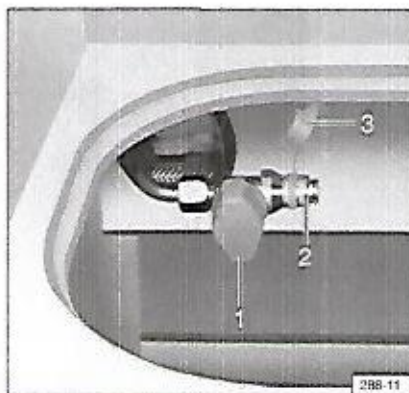
The cooker is installed in reverse order.

Note:

- You can only disconnect the gas connecting hose if the shutoff valve (1) is closed.
- You may only use the removed gas cooker outside of the vehicle with a separate frame*.

Make sure that the outside gas bottle has been tested and approved and is fitted with a pressure regulator (**30 mbar**).

- The shutoff valve (1) can only be opened if the gas connecting hose is fully connected to the quick-fastening coupling and properly locked into place.



- Close shutoff valve (1) and shutoff valve (6, – see page 63).
- Push back the locking ring (2) on the quick-fastening coupling, pull out the gas cooker hose at the same time and then take out the cooker with the burner heads.
- Next press the cap (3) onto the open end of the quick-fastening coupling.

The cooker is installed in reverse order.

Note:

- You can only disconnect the gas connecting hose if the shutoff valve (1) is closed.
- You may only use the removed gas cooker outside of the vehicle with a separate frame*.

Make sure that the outside gas bottle has been tested and approved and is fitted with a pressure regulator (**30 mbar**).

- The shutoff valve (1) can only be opened if the gas connecting hose is fully connected to the quick-fastening coupling and properly locked into place.

In accordance with the official regulation of the Federal Republic of Germany, the following must be observed:

The heat exchanger of the heating unit has a service life of 10 years. After this time, the heat exchanger must be replaced with an original heat exchanger.

In order to monitor this time, the year of the initial start-up operation is listed on the identification plate of the heating unit (under the vehicle floor).

After the heat exchanger is replaced, a plate with the date when the work was performed will be attached to the heat exchanger.

Vehicle

Upholstery

Upholstery is to be treated with special cleaners with dry foam and a brush.

They can only be dry-cleaned. They should not be washed otherwise they will shrink and the fire resisting properties will be washed out.

Pieces of furniture have a plastic coating. You should clean them with conventional cleansers.

Reclining bench seat

The hinges and the locking lever mechanisms need to be maintained from time to time. The hinges of the bench seat/reclining bench seat should be cleaned regularly and treated with a fine coat of lubricant (silicon spray).

Cooker and sink unit

The enamelled surfaces on the cooker and sink can be cleaned with conventional non-abrasive cleaning agents. You can also remove the cooker grid for this.

When you are cleaning the gas cooker, be sure not to damage or bend the thermoelements on the gas burners. The gas burners should be cleaned with a brush at regular intervals.

Cooler

Defrost the cooler at regular intervals to prevent ice from forming. Switch off the cooler (see page 17) and open the cooler door.

To prevent any possible damage, do not attempt to speed up defrosting using an additional source of heat. Remove the melted water before you switch the cooler on again.

Clean the cooler with water which has been supplemented with a little vinegar.

To prevent mould and mould stains forming when the cooler is not used for longer periods of time hold the door slightly open with a folded towel.

Command centre display

Use anti-static cloths or anti-static agents to clean the display to prevent static charging which causes the display to become illegible.

Pop-up roof

To prevent condensation and mould stains, the pop-up roof should be aired regularly and only when dry.

If you do have to close the roof while it is still wet, raise the roof as soon as possible to dry the tent.

If the pop-up roof will not be used for a longer periods of time, for example in winter, the bed cushions should be removed, or the roof raised occasionally.

Windows

Clean the tempered-plate glass windows with plenty of water mixed with a small amount of dishwashing liquid. Afterwards wipe them down with a cham-
ois leather.

Exterior

Supplemental warm-air heater*

The supplemental warm-air heater cabinet has been provided with a surface protection layer at the factory. However, as damage to the protective layer cannot be entirely excluded while driving, we recommend inspecting the cabinet at regular intervals and repairing any damage found.

You can use normal anti-corrosion agents for the vehicle underbody.

Switch the supplemental warm-air heater on for approx. 10 minutes each month during the warmer periods (i.e. in the summer).

Skylight*

Remove dirt (insect remains, leaves from trees etc.) from the weatherseal on a regular basis and clean the rubber seals.

Afterwards, treat the rubber seal with a rubber cleaning agent.

This will keep the seal pliable and conserve it longer. It will also not freeze in winter.

Waxing

Proper wax treatment protects the vehicle paint and the pop-up roof* from adverse environmental effects (e.g. parking under trees, insect remains, bird droppings etc.) and also from light mechanical contact.

When water no longer beads on the clean paintwork, protect the vehicle by applying quality hard wax protection.

Even if you use wax additives regularly, we recommend hard wax protection at least twice a year.

Winter operation

Your camper is suitable for winter operation under certain conditions:

- The fresh and waste water system will also function in freezing temperatures down to approximately -10°C if the vehicle is continuously heated (interior temperature) and the pop-up roof is kept closed.
- If you do not heat the vehicle or only heat it briefly, the fresh and waste water systems must be drained if there is a risk of frost.

Additional equipment for winter operation:

- Snow shovel
- De-icer
- Antifreeze
- Snow chains
- Jumper cables

We recommend the following when camping in cold weather:

- Release the parking brake so it does not freeze. It is better to put the vehicle into gear or place blocks under the wheels.
- Do not lay mains cables along the ground; they will otherwise freeze solid.
- Keep the ground under the camper free so the supplemental warm-air heater* can draw in sufficient air and the exhaust gases can escape. Therefore do not pile snow around the vehicle.
- Clear snow off the camper roof around the skylight*.

Ventilation

In winter it is particularly important to ventilate the vehicle. The high level of air humidity caused by breathing, cooking steam, snow brought in and damp clothing must be able to escape.

Therefore always keep the skylight* clear.

To reduce the air humidity in the camper, we recommend installing normal room dehumidifiers.

Precautions in stormy weather

If the storm is directly above your camper parking space we recommend:

- Disconnecting the 230 V mains connection to the supply plug.
- Lowering the car radio aerial.
- Closing the pop-up roof and waiting inside the vehicle for the storm to end.

Driving instructions

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Travel tips 75
Overnight stays 78

Driving safely

When driving your camper you should be aware of the following points:

- Before starting out check that all doors, flaps and roller shutters have been closed securely.
- The pop-up roof must be closed and securely locked.
- Place the dining table securely in the holder of the sliding door panel.
- All seats must be in driving position during the trip and locked into place.
- The seat belts must lie on the bench seat so that they are readily accessible.
- All luggage pieces and objects must be securely stowed away.
- Close all gas shutoff valves.
- The supplemental warm-air heater* must be switched off when you refuel the vehicle.
- The gas equipment may not be used at garages and on ferries.
- If you have a gas bottle in the vehicle, you are usually not permitted to park the vehicle in a underground or multistorey car park. Observe the garage or car park regulations.
- The handling characteristics will change when the vehicle is loaded. For that reason, you must adjust your driving style accordingly.
- The vehicle speed is to be adjusted to traffic conditions, the road conditions and the load.
- If bicycles* and/or sporting equipment racks* are mounted, the fastening elements of the rack system and sporting devices must be checked regularly and adjusted as necessary to ensure that they are securely seated.

Travel tips

Preparing for a trip

One great advantage of your camper is that you can decide on your travelling time and destination on short notice and also change your plans again spontaneously.

The following list should help you prepare for the trip and allow you to quickly check that you have all important items before you leave.

Before starting the trip

- Plan your route, if necessary, consult an automobile club or tourist information centres at the destination.
- Observe the vaccination regulations of your destination country.
- Make arrangements for your post and newspaper deliveries.
- Leave a holiday address or telephone number.

Documents

- Passport/identification card (valid?)
- Driving licence
- Vehicle guide (operating manual, service centre directory etc.)
- Vehicle documents
- International insurance papers
- International health insurance papers
- Vaccination certificates
- Documents for any animals travelling with you
- Road maps
- Camping guides
- Travel guides

Vehicle

- Check that the vehicle is ready for the trip (oil level, tyre pressure, lights etc.) if necessary, have an inspection carried out.
- Check/fill the gas supply, replace gas bottle if necessary.
- Fill fresh water tank.
- Empty waste water tank.
- Check emergency equipment (tool kit, spare wheel, tow-rod, jumper cables, fuses, torch).
- Take the power supply cable and cable drum if you will be using a power connection on the trip.

Household and camping equipment

We recommend making a list of all the items you will need for your trip such as household goods, camping gear, and recreational equipment. It is annoying when you realise that you have forgotten toiletries, deck chairs or surfing gear at your holiday destination.

Tips for overnight stay in Germany

You should start looking for a camping site during the day to avoid any unexpected problems.

Observe the overnight stay regulations.

In Germany you are generally allowed to spend the night wherever parking is allowed. However, spending two nights in one place may be a problem. In public car parks you should not give the impression that you are camping, i.e. do not hang out laundry, place deck chairs outside etc.

In Germany there is now a large number of “camper-friendly” locations which allow overnight stays and have service facilities for fresh and waste water without you having to use a campsite. Information is available from the VDWH (Verband Deutscher Wohnwagen- und Wohnmobil-Hersteller e.V., Association of German Mobile Home and Caravan Manufacturers).

Travelling abroad

Inform yourself about any special requirements for campers in transit and destination countries before leaving home, for example:

- Documents required.
- Nationality sticker (regulation size) on the rear of the vehicle.
- Power connecting plug if you will using a power connection on the trip.
- Speed limits.
- Overnight stays.

In the interest of all camper users, please observe the regulations of the host country strictly. Many of the bans and limitations laid down over the last few years are reactions from "affected" towns and countries to unreasonable behaviour of campers not using designated sites.

Another tip when staying in countries where camping in the open country is tolerated or even allowed:

- Park the vehicle in the direction you will drive away to be on the safe side – you will be able to get away much faster if there are any problems.

On the next page you will find a list of overnight sites outside official campsites in European countries produced with the kind help of the ADAC (German Automobile Club).

Overnight sites in Europe outside official campsites.

Country	On streets within towns		At parking places and rest stops		Remarks
	allowed	not allowed	allowed	not allowed	
Belgium	•		•		Maximum 24 hours if not restricted by local regulations
Germany	•		•		Single night stay. Police can impose time restrictions.
Denmark		•		•	Only short stay allowed.
Finland		•		•	Only short stay allowed.
France		•		•	
Greece	•		•		Not allowed at archeological sites or at beaches, forests or public places.
Great Britain	•		•		

Country	On streets within towns		At parking places and rest stops		Remarks
	allowed	not allowed	allowed	not allowed	
Italy	•		•		Single night stay if not restricted by local regulations.
Luxembourg		•		•	
Netherlands		•		•	
Norway		•		•	A permit should be obtained from the police for parking places and rest stops.
Austria	•		•		Local restrictions possible.
Sweden	•		•		Time restrictions possible.
Switzerland	•		•		Differs by canton. Asking the police or canton authorities is advised.
Spain		•	•		

Subject to change.

Where to take your camper in towns

You can of course drive to a camping site with the camper but for many this is not the reason for having this special vehicle.

Some people prefer to spend the night right on a market square; this is allowed in some countries.

Here are some tips for people wanting to stay in a town with their camper:

- Many towns have fairgrounds which often also have sanitary facilities.
- Sports stadiums provide another possibility for staying in towns. You will almost certainly find plenty of parking spaces there and in many cases even park-like grounds.
- In towns you have an ideal base for visiting museums and theatres or going to restaurants.

Anyone wanting to stay in a town and prepared to put up with a little street noise is best off in a guarded car park.

- Inns on the outskirts of towns often have large parking spaces. In many cases you just have to eat at the inn in the evening and ask for permission to spend the night in the car park.

Self-help

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Fuses

All electrical consumers in the living area are protected with suitable fuses. You will need to push the driver's seat forward before you change fuses or check the circuit breaker.

The fault current breaker and fusebox are at the side of the kitchen cupboard behind the driver's seat.

A – Fault current breaker for 230 V consumers

The function of the fault current breaker is described on page 49.



Danger!

Use only fuses with the prescribed rating.

Replace fuses only if the cause of the fault was corrected.



B – Fusebox for 12 V consumers

The box contains fuses for the following consumers:

- | | |
|---|-------|
| 1 – Command centre | 5 A |
| 2 – Water pump | 3 A |
| 3 – Interior lamps, 12V socket | 7.5 A |
| 4 – Supplemental warm-air heater* | 25 A |
| 5 – Charger | 15 A |
| 6 – Cooler | 15 A |

The assignment of the slots corresponds to the numbering on the fuse holder cover. There is a notch (note arrow) on the fuse holder. Fuse 6 is always next to it. This notch is a fixing point for the cover.

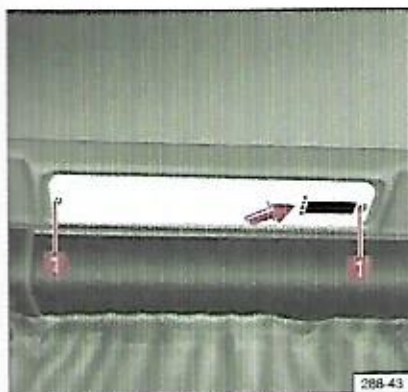
Note:

You must wait approx. 10 minutes before you connect the 230 V mains after re-inserting or replacing fuse 5 (charger).

The symbol for mains voltage (charger operating indicator) will not appear in the command centre display (see page 14) until this time has elapsed.

Tool kit

The storage compartment on the right-hand side of the luggage compartment has been provided for the tool kit, jack, first aid kit and warning triangle.



Changing bulbs

Transistor lamps

- Remove the plastic screws (1) in the lens with a screwdriver and remove lens.
- Loosen the four screws (note arrows) slightly and carefully pull out the luminous rod towards the left.
- Insert new luminous rod and tighten the four screws slightly.
- Put on the lens and fasten with plastic screws.

Table of faults

Fault	Corrective measure
Supplemental warm-air heater does not work a - It will not start, no fan noise	1 - Check charging level of additional battery – see page 16; if necessary charge the battery via the 230 V supply (see page 51) or by leaving the engine running. 2 - Check fuses – see page 82. 3 - Set the timer switch* correctly.
b - The following fault code appears in the command centre display: -F12; -F13 – Overheating -F23 – Glow plug control interrupted -F52; -F53; -F54; -F55 or F56 – Lack of fuel For all other error codes	1 - Switch off heater, free air intake opening or hot-air flow unit (see page 19) and then switch the heater back on. 2 - Check fuse 4 – see page 82. 3 - Switch off heater and wait until the heater fan stops. Afterwards, switch on the heater. Do not repeat this procedure more than two times. If the heater still does not ignite, check the fuel supply. 4 - Write down the corresponding error code, switch off the heater and contact your local Mercedes-Benz Service Centre.

Fault	Corrective measure
Cooler does not cool	<p>1 - Check charging level of the additional battery – see page 16, if necessary charge the battery via the 230 V supply (see page 51) or by leaving the engine running (you do not have to switch the cooler on again). The cooler will start automatically once the battery voltage reaches 13 V.</p> <p>2 - Check fuse (see page 82).</p>
Charger does not charge	<p>1 - Check whether the 230 V mains is properly connected on the fault current breaker (see page 49).</p> <p>2 - Check fuse (see page 82).</p>
Water pump does not pump	<p>1 - Check the charging level of the additional battery (see page 16); if necessary charge the battery via the 230 V supply (see page 45) or by leaving the engine running.</p> <p>2 - Check fuses (see page 82).</p> <p>3 - In winter, check whether the fresh water system is frozen.</p>

If these corrective measures do not eliminate the problem, a Mercedes-Benz Service Centre will be happy to provide assistance.

Technical Specifications

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Weights

	Figures in kg
Permitted total weight	2700
Curb weight:	
MB 108 CDI:	2072
MB 110 CDI:	2075
MB 112 CDI:	2075
MB 113:	2035
MB 114:	2035
Permitted max. roof load	50

For vehicles with automatic transmissions, the weight is approx. 20 kg higher.

Note:

The curb weight can vary depending on the model version or supplemental equipment so that the payload is reduced accordingly.

Dimensions

	Figures in mm
Length	4660
Width	1880
Height with closed roof approx.	1980
Height with raised pop-up roof approx.	2695
Standing height with closed roof approx.	1480
Standing height with raised pop-up roof approx.	2160
Bed dimensions top*	1850 x 1210
bottom	2000 x 1250

The figures refer to the base model.

These can vary due to permanently mounted accessories – for example, sporting equipment racks, luggage racks, bicycle racks etc.

Nameplate (identification plate)

The nameplate of the recreational mobile installation is located on the C-column at the left next to the sliding door entry.

The type number and equipment option number are imprinted on the nameplate.

This information is required when ordering spare parts and for all technical enquiries regarding the scope of equipment of the camper equipment options.

Living area

Supplemental warm-air heater*

Fuel consumption

- Fuel max. approx. 0.34 l/h
- Diesel max. approx. 0.30 l/h

Mains voltage 12 V

Power consumption max. 20 W

Power output max. 2500 W

Liquid gas system

Butane gas bottle with pressure regulator (30 mbar) and bottle safety valve.

The gas bottle (Camping Gaz, type 904) is not included with the vehicle.

Gas bottle contents 1.8 kg

Operating pressure 30 mbar

Gas cooker

Gas consumption:

- Left-hand burner
high output max. approx. 140 g/h
- Right-hand burner
low output max. approx. 80 g/h

Electrical system

12 V system

Additional battery

(maintenance-free gel battery) 75 Ah

Power consumption

Cooler max. 60 W

- Cooling fan 5 W

Supplemental warm-air heater 20 W

Water pump 18 W

Interior lighting

- Transistor lamps with
two settings 11/6 W

230 V system

Frequency 50 Hz

Fault current breaker:

- Line protection 13 Amp

- Operator protection 10 mA

Charger for additional battery max. 10 A

Water supply

Fresh water tank with electrical water pump and fresh water level sensor.

Drainage valve at bottom of linen cupboard next to luggage compartment behind panel.

Fresh water tank – contents approx. 32 litres

Water drainage system

Waste water tank with waste water level sensor, drainage valve in the lower kitchen cupboard.

Waste water tank – contents approx. 22 litres

Cooler

Electrical operation

Mains voltage 12 V

Adjustable temperature

Cooler capacity 30 litres

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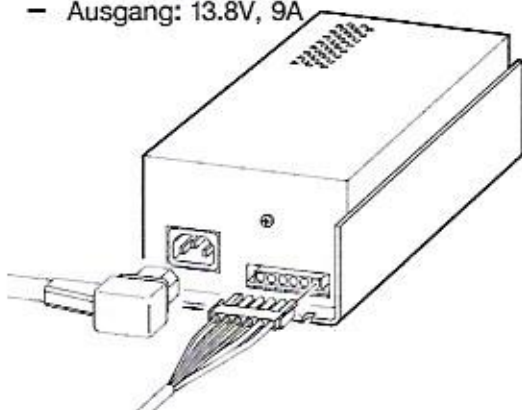
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Technische Daten Ladegerät

- Mindestkapazität Batterie: 80 Ah
- Eingang: 230V, 50-60HZ, 250VA, 160W
- Ausgang: 13.8V, 9A

**Sicherungen** (im Ladegerät)

- Eingang: 2 x 250V 3,2A T (Glas)
- Ausgang: 250V 15A T (Keramik)

Die Sicherungen dürfen nur von einem autorisierten Fachbetrieb ausgewechselt werden.

**Funktionsprüfung Ladegerät**

- 220 Volt an die Außensteckdose des Fahrzeugs anschließen (Personenschutzautomat muß eingeschaltet sein).
- Ein Verbraucher, z.B. Wasserpumpe oder Heizung einschalten.
- Zusatzbatterie für einen kurzen Moment (10 Sek.) abklemmen.
- Wenn der Verbraucher weiterläuft, ist das Ladegerät in Ordnung.

Prüfmöglichkeiten Ladegerät

- | | |
|--|---|
| Batteriespannung messen | • 220V Netzspannung trennen. Meßgerät an die Klemmen + Ladeleitung (1) und – Ladeleitung (2) anschließen und die Spannung messen. |
| Netzspannung messen | • 220V Netzspannung anlegen. Im Kaltgerätestecker die Netzspannung messen. |
| Spannung im Ladezustand messen | • Kaltgerätestecker an das Ladegerät anschließen. Meßgerät an die Klemme + Ladeleitung (1) und – Ladeleitung (2) anschließen und die Spannung messen (die Spannung muß steigen, je nach Batteriezustand auf ca. 14V). |
| LED–Leitung messen | • Meßgerät an LED–Leitung (5) und – Ladeleitung (2) anschließen und Spannung messen (ca. 14V). Die LED–Leitung erzeugt das Netzsteckersymbol in der Zentralelektronik. |
| Batteriespannung messen über Steuerleitung | • Netzstecker und 6–poligen Stecker am Ladegerät ziehen. Meßgerät an die Klemmen + Steuerleitung (3) und – Steuerleitung (4) -Kabelbaumseitig- anschließen. |
| Temperaturfühler messen | <ul style="list-style-type: none"> • Netzstecker und 6–poligen Stecker am Ladegerät ziehen. Meßgerät an die Klemmen Temperaturfühler (6) und – Ladeleitung (2) -Kabelbaumseitig- anschließen. Liegt Batteriespannung an, ist der Temperaturfühler in Ordnung. • Netzstecker und 6–poligen Stecker am Ladegerät wieder anschließen. Steigt die Spannung auf über 15V - sichtbar im Display der Zentralelektronik durch die blinkende Anzeige - ist möglicherweise der Temperaturfühler defekt. Ausbauen und messen möglich, bei 20° 500 Ohm. |

Instructions on how to handle the gel additional battery

Gel batteries are:

- absolutely maintenance-free
- absolutely electrolytically sealed
- independent of position
- vibration-resistant
- resistant to exhaustive discharge and cycles
- extremely low in gassing

To be able to take advantage of these features for many years to come, we ask you to observe the following points:

- Battery is ready for operation when it leaves the factory.
- Battery is absolutely maintenance-free.
- Do not fill with water.
- Installation: switch off all consumers, connect the earth cable last.
- Check that the battery and its connections are firmly seated.
- Battery is resistant to exhaustive discharge. However, it must be charged within 4 weeks at the latest. Please note that an exhaustive discharged battery can freeze at temperatures below 0° C.
- Batteries that have not been used for extended periods of time (e.g. seasonal use) should be charged beforehand.

The gel battery discharges so slowly that intermediate charging is unnecessary. For example after 6 months storage at an ambient temperature of +20° C, the battery still has more than 80% of its rated capacity. To prevent reverse discharging or discharging by small consumers, we recommend removing the fuses.

Each cell is closed by means of a release valve that releases the excessive pressure if the battery is overcharged (e.g. defective regulator). These relief valves must not be covered.

Charging options:

- Generator with 14,1V - 14,4V regulator
- Charger with the following characteristics: IU, IWU IUoU, WUoU:
Voltage: min. 13,8V
max. 14,4V
- Solar, wind and wave generators with proper voltage-limited control for conservation charging or continuous charging 13,8V for recharging 14,1V - 14,4V.

All voltages indicated apply to a 12 V on-board electrical system. All voltages indicated apply to ambient temperatures of 20° C to 25° C. Higher continuous temperatures require you to adjust the charging voltage.

Charging current:

10% of the rated capacity (K_{10}) is sufficient for the battery.

Determining the charge state:

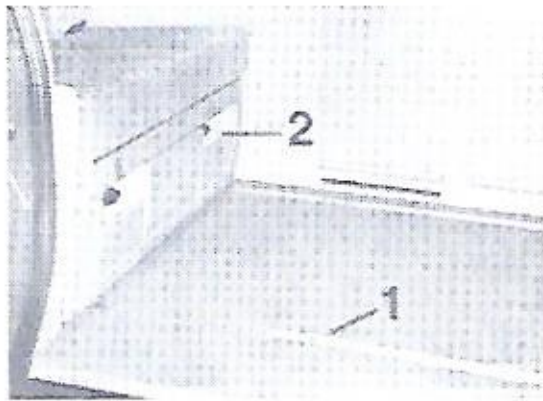
Open-circuit voltage	Charge state
greater than 12,80 V	100%
approx. 12,55 V	75%
approx. 12,32 V	50%
approx. 12,32 V	25%
under 12,00 V	0%

Measurement should be taken at an ambient temperature of 20 - 25° C and a few hours after charging.

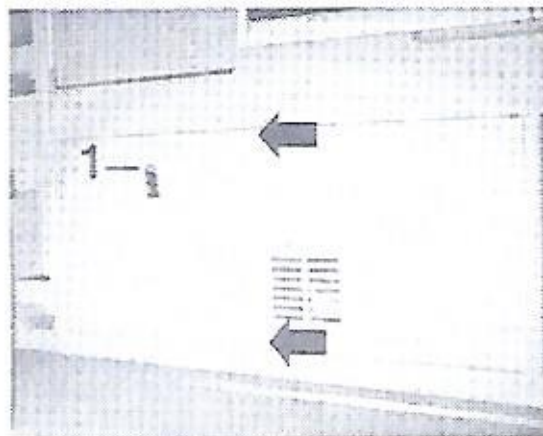
All gel batteries can be disposed of at your local dealer.

Achtung:

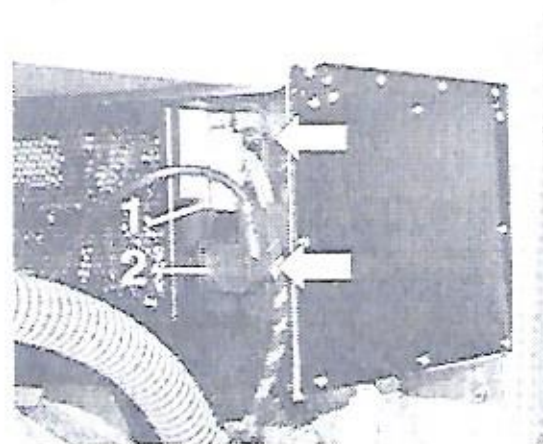
Sicherheitsmaßnahmen Seite 1 beachten.



- Begrenzer -1- aus Schiene heraus-schrauben.
- Verriegelung -2- lösen.
- Sitz-/ Liegebank in Fahrtrichtung nach vorne ziehen.
- Bettverlängerung hinten ausbauen, dazu 4 Rändel-schrauben herausdrehen (ohne Abbildung).



- Halter -1- abschrauben.
- Abdeckkappen -Pfeile- abhebeln und Kreuzschlitz-schrauben herausdrehen.
- Verkleidung abnehmen.



- Stecker -1- und -2- vom Ladegerät abziehen
- 2 Kreuzschlitzschrauben -Pfeile- herausdrehen.
- 2 Kreuzschlitzschrauben hinten am Gerät lösen.

Testing options for the gel additional battery

Required tools:

1. Voltmeter (present in vehicle or else a component of the command centre).
2. Regulated charger (installed in vehicle) or with characteristic IU, IWU, IUoU, WUoU.
3. Battery testing instrument or impact load tester from the Benning company or battery testing device (e.g. Bosch).

Test procedure:

1. Visual test
 - a) No external damage (cracks in cabinet or etc.).
 - b) Valves not damaged (e.g. distorted, white layer) over the cover tight.
 - c) No signs of short-circuiting on the terminals.
2. Check off-load voltage or idle voltage (U_o) of the battery with a voltmeter or impact-load tester (without load resistors and without connected consumers) to determine the status of the battery:
 - a) If $U_o < 12,5 \text{ V}$, the battery should be charged; minimum charging time approx. 16 hours,
 - b) If $U_o < 12,7 \text{ V}$, the load test can be performed (but charge battery!).
 - c) If $U_o > 12,7 \text{ V}$ Perform load test.
 - d) If $U_o < 12,0 \text{ V}$, the battery is exhaustively discharged and must be charged at least 48 hours with the charger that was installed in the vehicle as standard equipment.

Leave the battery in an open current circuit for at least 5 hours after charging in order to discharge the load voltage. Do not measure the off-load voltage until then.

3. Load test

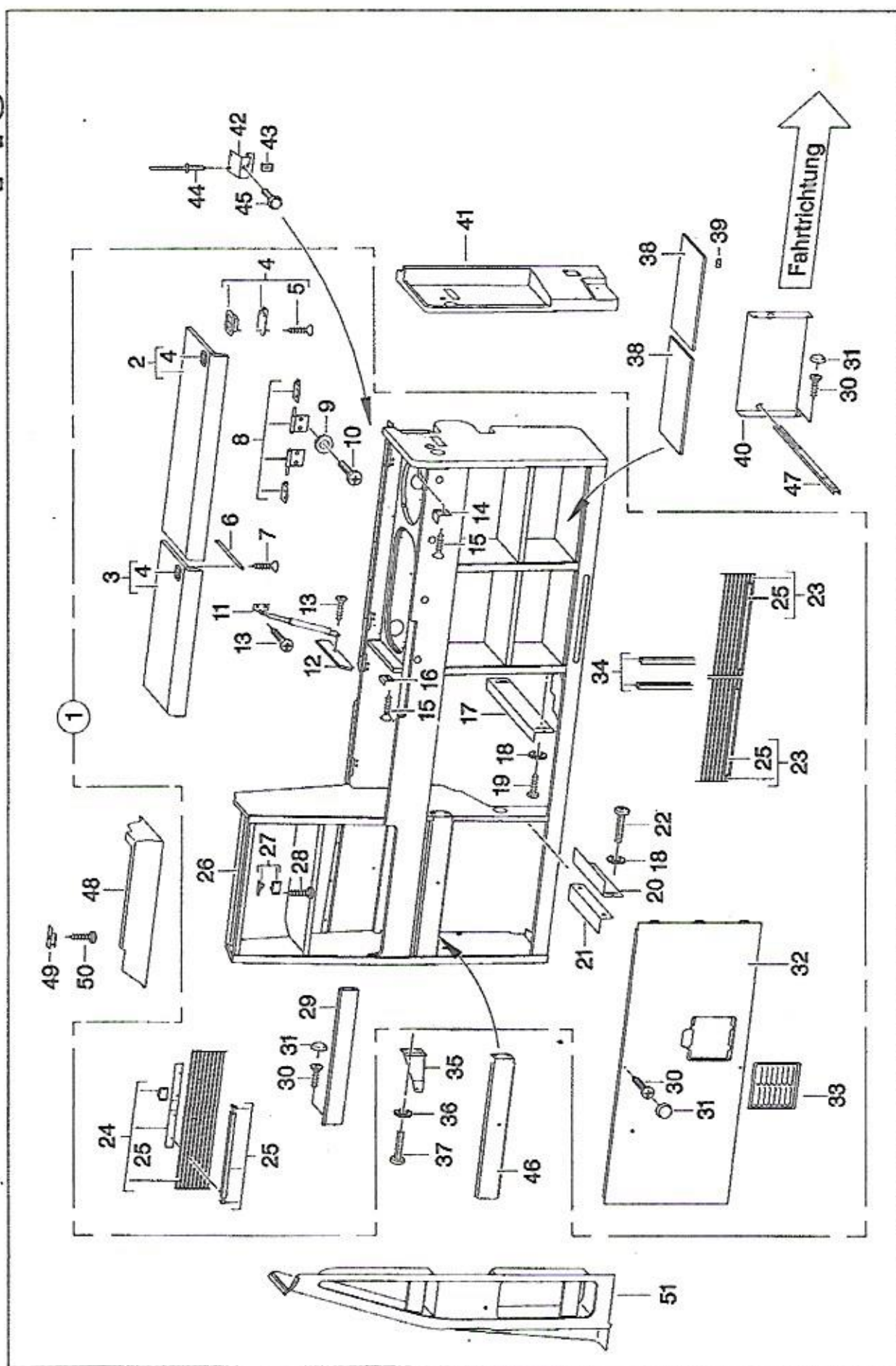
The batteries should be loaded with the following current values:

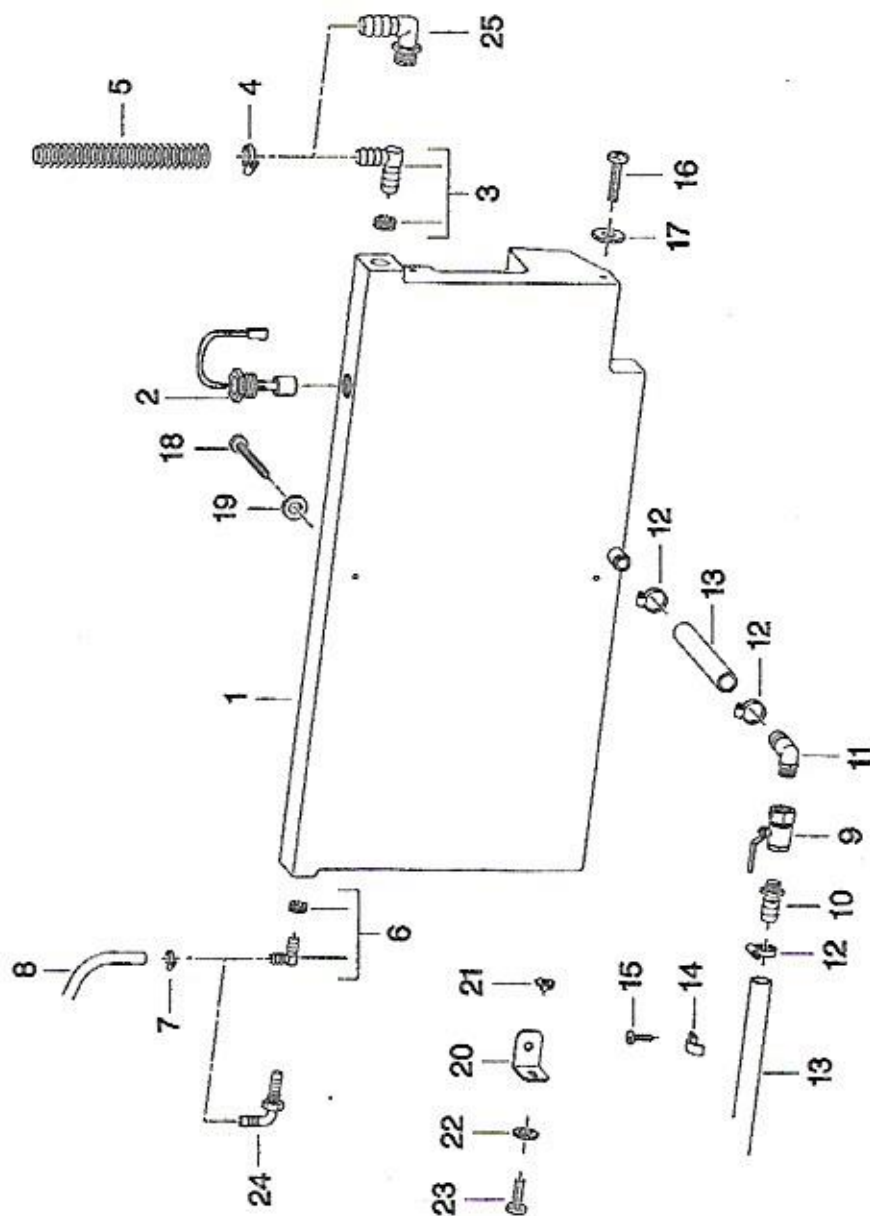
Battery type	Test current	Load voltage UB
from 75 – 85 Ah	200 A	>9,5 V
from 120 – 45 Ah	300 A	>9,5 V

As the setting ranges of these testers refer to starter batteries, the following deviating capacity values are to be set on the tester:

Gel battery capacity + 0,55 = setting on the tester (e.g. gel battery capacity 80 Ah x 0,55 = 44 Ah on the tester).

If UB 9,5 V the battery is functioning properly. If the load voltage UB is lower than 9,5 V, or if the battery voltage breaks down, the battery is defective.





Fahrtrichtung

