



# Manual



Version 09/2012

PREMIUM VAN · PREMIUM DRIVE

# Hobby



Dear Camper,

Congratulations on the purchase of your new HOBBY motor home. The trust you have placed in us is both an incentive and an obligation to continuously implement new ideas, technical innovations and fine touches to make our motor homes even better. Our fully fitted and highly sophisticated models enable us to offer you the perfect setting for the most enjoyable days of the year.

Please read this user manual carefully, even if you have already been driving a motor home for quite some time. This will help to prevent operating errors and damage to the vehicle and its equipment. Handling all of the technical details correctly will increase the pleasure you get from driving this vehicle and help to retain the value of your motor home.

If this user manual should be unable to provide the required assistance, a close, pan-European network of dealers is available for further help. Take advantage of your authorised dealer's experience and technical knowledge - we recommend speaking to them in detail before taking your first trip with your HOBBY motor home.

We wish you and your fellow travellers many enjoyable trips and hope you will always have a safe journey with your new HOBBY motor home.

Your

HOBBY – Wohnwagenwerk  
Ing. Harald Striewski GmbH

**Chapter 1: Introduction**

|     |   |      |
|-----|---|------|
| 1.1 | General information.....                        | 01-1 |
| 1.2 | Before taking your first drive.....             | 01-1 |
| 1.3 | Designations in the operating instructions..... | 01-2 |

**Chapter 2: Safety**

|     |   |       |
|-----|---|-------|
| 2.1 | General information.....                            | 02-1  |
| 2.2 | Fire protection.....                                | 02-1  |
| 2.3 | Road safety.....                                    | 02-2  |
| 2.4 | What to observe before taking your first drive..... | 02-2  |
| 2.5 | Before and while driving.....                       | 02-3  |
| 2.6 | Notes for your journey.....                         | 02-5  |
| 2.7 | Vehicle tool kit.....                               | 02-8  |
| 2.8 | Emergency equipment.....                            | 02-9  |
| 2.9 | When you stop driving.....                          | 02-10 |

**Chapter 3: Chassis**

|     |  |      |
|-----|--|------|
| 3.1 | Chassis.....                             | 03-1 |
| 3.2 | Loading.....                             | 03-1 |
| 3.3 | Leveling supports.....                   | 03-4 |
| 3.4 | Entrance step.....                       | 03-5 |
| 3.5 | Vehicle identification number (VIN)..... | 03-6 |
| 3.6 | Additional pneumatic springs.....        | 03-6 |
| 3.7 | Towing fixture.....                      | 03-7 |
| 3.8 | Externally mounted fixtures.....         | 03-8 |
| 3.9 | Automatic transmission.....              | 03-9 |

**Chapter 4: Wheels, tyres, brakes**

|     |             |      |
|-----|-------------|------|
| 4.1 | Wheels..... | 04-1 |
|-----|-------------|------|

|     |                      |      |
|-----|----------------------|------|
| 4.2 | Tyres.....           | 04-1 |
| 4.3 | Tyre pressure.....   | 04-2 |
| 4.4 | Tread depth.....     | 04-2 |
| 4.5 | Wheel rims.....      | 04-3 |
| 4.6 | Tyre repair kit..... | 04-3 |
| 4.7 | Brakes.....          | 04-8 |

**Chapter 5: Exterior Structure**

|     |  |       |
|-----|--|-------|
| 5.1 | Overview of tank and service flaps.....  | 05-1  |
| 5.2 | Ventilation.....                         | 05-5  |
| 5.3 | Opening and closing doors and flaps..... | 05-7  |
| 5.4 | Roof rail.....                           | 05-13 |
| 5.5 | Roof drains.....                         | 05-14 |
| 5.6 | VELO eBike Carrier.....                  | 05-14 |
| 5.7 | Sun awning.....                          | 05-15 |

**Chapter 6: Interior Structure**

|      |   |       |
|------|---|-------|
| 6.1  | Opening closing doors and flaps.....    | 06-1  |
| 6.2  | Mount for flat screen TV.....           | 06-4  |
| 6.3  | Tables.....                             | 06-5  |
| 6.4  | Bed conversion.....                     | 06-7  |
| 6.5  | Elevated berths.....                    | 06-11 |
| 6.6  | Washroom with sliding elements.....     | 06-11 |
| 6.7  | Cushion arrangements.....               | 06-16 |
| 6.8  | Windows.....                            | 06-20 |
| 6.9  | Dimming system for driver's cabin.....  | 06-21 |
| 6.10 | Skylight.....                           | 06-23 |
| 6.11 | Pivoting seats in the driver's cab..... | 06-25 |
| 6.12 | Construction of the seats.....          | 06-26 |

|      |  |       |
|------|--|-------|
| 6.13 | Seatbelts in the caravan.....              | 06-27 |
| 6.14 | Overview of the seating arrangements ..... | 06-28 |
| 6.15 | Overview of day and night positions.....   | 06-33 |

## Chapter 7: Electrical Installations

|     |   |       |
|-----|---|-------|
| 7.1 | Safety instructions .....               | 07-1  |
| 7.2 | Elements of the electrical system ..... | 07-1  |
| 7.3 | Electric power supply.....              | 07-16 |
| 7.4 | Electrical system .....                 | 07-26 |
| 7.6 | Contact plan for the input module.....  | 07-29 |
| 7.7 | Special lights.....                     | 07-30 |
| 7.8 | Mobile navigation.....                  | 07-31 |
| 7.9 | Subsequently installed devices.....     | 07-31 |

## Chapter 8: Water

|     |                          |      |
|-----|--------------------------|------|
| 8.1 | General information..... | 08-1 |
| 8.2 | Water supply .....       | 08-1 |
| 8.3 | Hot water supply .....   | 08-5 |
| 8.4 | Flushing toilet.....     | 08-5 |

## Chapter 9: Gas

|     |  |      |
|-----|--|------|
| 9.1 | General safety rules when using LPG fittings ..... | 09-1 |
| 9.2 | Gas supply .....                                   | 09-3 |

## Chapter 10: Built-in devices

|      |                               |      |
|------|-------------------------------|------|
| 10.1 | General information.....      | 10-1 |
| 10.2 | Heating.....                  | 10-2 |
| 10.3 | Electric Heating System ..... | 10-7 |
| 10.4 | Hot-water heating .....       | 10-8 |

|      |                                |       |
|------|--------------------------------|-------|
| 10.5 | Refrigerator .....             | 10-17 |
| 10.6 | Gas cooker.....                | 10-22 |
| 10.7 | Oven.....                      | 10-24 |
| 10.8 | Fume Hood .....                | 10-25 |
| 10.9 | Rooftop Air Conditioning ..... | 10-26 |

## Chapter 11: Maintenance and Care

|      |                                       |      |
|------|---------------------------------------|------|
| 11.1 | Maintenance .....                     | 11-1 |
| 11.2 | Airing .....                          | 11-1 |
| 11.3 | Care.....                             | 11-2 |
| 11.4 | Winter Lay Up for the Motor home..... | 11-6 |
| 11.5 | Winter Operation .....                | 11-8 |

## Chapter 12: Sanitation and Environmental Protection

|      |                                    |      |
|------|------------------------------------|------|
| 12.1 | The environment and traveling..... | 12-1 |
| 12.2 | Returning the vehicle .....        | 12-4 |

## Chapter 13: Technical Data

|      |   |       |
|------|---|-------|
| 13.1 | Weights according to 92/21/EWG.....       | 13-1  |
| 13.2 | Inflation pressures .....                 | 13-2  |
| 13.3 | Technical data.....                       | 13-3  |
| 13.4 | Tires and rims for basic motor homes..... | 13-9  |
| 13.5 | Accessory weights .....                   | 13-11 |

|                       |             |
|-----------------------|-------------|
| <b>Index</b> .....    | <b>ix-1</b> |
| <b>Appendix</b> ..... | <b>A-1</b>  |

# Chapter 1: Introduction

Our motor homes are continuously being further developed and for this reason we must reserve the right to make changes to the equipment, shape and technology. Certain kinds of accessories are also described in this user manual that are not part of the standard scope of delivery. For this reason, no claims may be asserted against HOBBY based on the contents of this user manual. Those accessories that are available at the time of going to print are described here. They have been applied on a par for all floor plans. Please note that it was not possible to describe all of the individual variations here. If you have any special questions concerning accessories or the technology of the vehicle, your dealer will be happy to answer them.

## 1.1 General information

Your HOBBY motor home has been built in accordance with the latest technology and approved safety regulations. Despite all precautionary measures, however, it is possible that passengers may be hurt or the motor home damaged if the safety instructions in this user manual and the warning stickers placed throughout the motor home are not observed. Please use the motor home only when it is technically in top condition. Any defects that affect the safety of passengers or

the motor home should be remedied immediately by trained personnel.

The brake system and the gas system should only be checked and repaired by an authorised workshop.

Please ensure that all of the deadlines for checking equipment and inspections are met.

## 1.2 Before taking your first drive

Please do not consider this manual to be just a means of reference, but familiarize yourself thoroughly with it before taking your first drive.

Fill out the guarantee cards in the different manuals for the installed equipment and fittings and send them to the manufacturers. This will ensure guarantee claims for any of the equipment.



In accordance with guarantee conditions, HOBBY's dealer will give you a 5-year guarantee on the consistency of the motor home. Your dealer will give you a guarantee booklet, "5 Years' Guarantee on Consistency" when you pick up your vehicle.



Note: If a consistency test has not been carried out, you will forfeit any claims for a 5-year guarantee on consistency.

Please note the following before operating the vehicle:

- **Check the tyre pressure.**  
Please refer to the section on tyre pressure
- **Load the vehicle correctly. Keep to the technically permissible overall mass.**  
Please refer to the section on loading.
- **Charge up the batteries fully before each journey**  
Please refer to the section on the starter battery.
- **Switch on battery circuit breaker.**
- **If the temperature outside is below 0° C, heat the vehicle before filling up the water system.**  
Please refer to the section on water supply/filling the fresh water tank.
- **Tighten the wheel nuts after having driven the first 50 km.**
- **Switch off all fitted devices that operate on gas before filling the petrol tank.**
- **Tightly strap gas bottles in the gas bottle box during transportation.**
- **When camping in winter, heat the vehicle at night if there is danger of frost.**  
Please refer to the section on operating in winter/heating.
- **Keep compulsory ventilation clear.**  
Please refer to the section on windows/roof fan/airing.

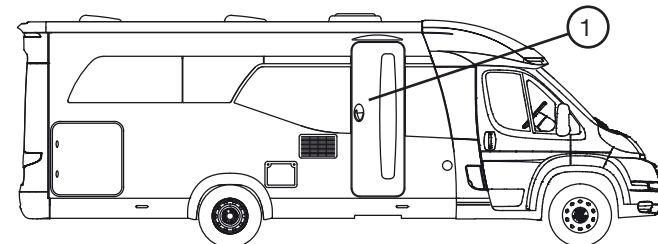
### 1.3 Designations in the operating instructions

This manual explains the motor home in the following manner:

#### Texts and illustrations

Texts that refer to illustrations are found directly below the illustrations.

Details in illustrations (here: entrance) have been given item numbers ①.



#### Lists

Lists are given in the form of key words and shown as bullet points using “-“.

### Handling instructions

Handling instructions are also given in the form of key words beginning with the symbol “●”.

### Notes



Notes point out important details that ensure your motor home and its fittings will function perfectly. Please remember that there may be some differences in description to the various kinds of equipment that can be supplied.

### Warnings



Warnings make you aware of dangers that may lead to material being damaged or even people being hurt if they are not observed.

### Environmental Tips



Environmental tips give you possibilities for lessening the impact on the environment.





## Chapter 2: Safety

### 2.1 General information

- Ensure that there is sufficient ventilation. Never cover built-in compulsory ventilation (skylights with compulsory ventilation or roof fan). Keep compulsory ventilation free of snow and leaves - danger of suffocation!
- Operating and user instructions for built-in equipment (refrigerator, heating, cooker, etc.) as well as for the basic vehicle must be observed at all times.
- If accessories or optional equipment is to be installed, this may change the measurements, weight and road performance of the engine home. Some accessories must be registered and entered in the vehicle's papers.
- Use only tyres and rims that have been approved for your engine home. Please refer to the vehicle's registration papers for information on tyre and rim sizes.

### 2.2 Fire protection

#### Precautions against fire

- Never leave children alone in the vehicle.
- Keep inflammable materials away from all heating and cooking devices.
- Any changes to the electric system, accelerator system or built-in devices may only be carried out by an authorised workshop.
- Install a fire extinguisher next to the main entrance.
- Store a fire blanket near the cooker.
- Do not block any escape routes.
- Familiarise yourself with all safety measures set up on the property.

#### Fighting fire

- Immediately evacuate all passengers.
- Close the main stop valve on the accelerator cylinder and the accelerator stop valves for the consumer loads.
- Turn off the electric supply.
- Sound the alarm and call the fire department.
- Only fight the fire yourself if you can do so without risk.

## 2.3 Road safety

- Before driving, check that the signalling and lighting systems (switch on battery circuit breaker), steering and brakes function correctly.
- If the vehicle has been standing for a longer period of time (approx. 10 months) have an authorised workshop check the brake system and the accelerator system.
- Completely open and fasten the dimming system on the front and side windows.
- While moving all passengers must be secured with seat belts and may not move around in the vehicle.
- In winter, the roof must be cleared of snow and ice before driving.
- Regularly check the tyre pressure before driving. False tyre pressure can cause excessive wear, damage to the tyres or even lead to a burst tyre.
- Child seats may only be mounted on seats that have a three-point seat belt installed by the factory.
- Turn the reversible seats in the direction of travel and lock them. The seats may not be turned while driving.

## 2.4 What to observe before taking your first drive

### Vehicle registration

Every vehicle that drives on public roads must be registered. This also applies to your new engine home. Apply for registration at your local Driver and Vehicle Licensing Agency.

### You must show the following when applying for registration:

- registration document, Part II / CoC
- insurance coverage
- proof of personal identity or confirmation of registration by a local authority
- if applicable, power of attorney to register the vehicle
- If applicable, the direct debit authorisation for motor vehicle tax

### General inspection

In common with passenger cars new engine homes with a permissible total weight up to 3.5 tonnes do not have to undergo a general inspection for the first three years after initial registration. After this they must undergo a general inspection every two years. Engine homes weighing between 3.5 and 7.5 tonnes must undergo a general inspection every two years during the first six years following initial registration. After this a general inspection must be carried out every year.

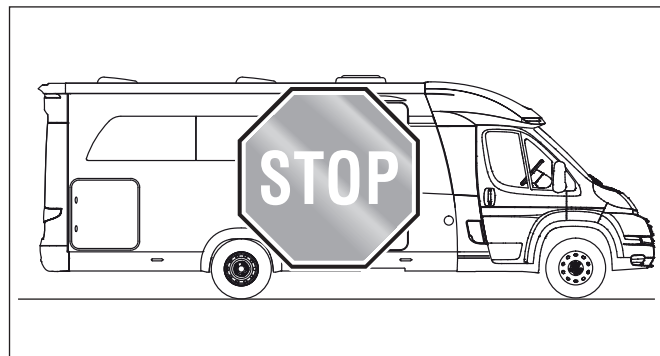
The general inspection can be carried out by the German Technical Surveyance Association (TÜV), the German Engine Vehicle Surveyance Association (DEKRA) or an officially approved expert.



Any changes made to the vehicle that underlie German Road Traffic Licensing Regulations must be officially authorised!



If you have any further questions or difficulties, your authorised Hobby dealer will always be available to assist you!



## 2.5 Before and while driving

As the owner / driver of the vehicle, you are responsible for the state of the vehicle. Please observe the following points:

### Preparing the vehicle

Check the exterior of the vehicle and carry out the following preparations before driving:

#### Preparing the vehicle

- If the levelling supports have been extended, retract them.
- Close all the windows in the engine home as well as skylights in the roof.
- Retract the entrance step.

- Close the tap for the waste water tank.
- Close all of the gas stop valves on the gas devices, with the exception of the stop valve for the heating if the vehicle has been equipped with a gas pressure regulator for use while driving. (e.g. Control CS, SecuMotion)
- If necessary remove the 230 V electric cable from the exterior socket.
- If necessary, retract the satellite dish.
- If necessary retract the TV aerial as far as possible or fold down the satellite dish.
- If necessary secure any loads on the roof ensuring that they cannot slide.
- If necessary secure bicycles; ensure that they cannot slide and check that the existing lighting systems are not covered.
- If necessary turn off the light in the tent in front of the engine home.

## Interior

Some preparations must also be carried out inside the motor home.

### Preparing the interior

- Sort loose objects and stow them in the compartments.
- Place heavy objects in the lower compartments.
- If necessary switch the refrigerator to 12 V operation.
- Ensure that no liquids, including those in the refrigerator, will leak.
- Secure accelerator cylinders.
- Fold down and secure the table.
- Turn off interior lights.
- Secure the table and, if possible, lower it.
- Close doors (including refrigerator door), drawers and flaps firmly.
- Heavy and/or voluminous objects (e.g. TV, radio) must be secured before driving.
- Completely open and secure the optional cockpit dimming system.
- Lock and secure the washroom sliding wall.



Do not overload the vehicle! It is imperative that you not the permissible axle loads, the technically permissible overall mass as well as the permissible height, width and length of the motor home.



Place a note with all important measures and weights in a visible place in both the caravan and the driver's cabin.

## Driver's cabin

### Do not forget the following:

- Adjust the interior and exterior mirrors as well as your seat.
- Check the lights.

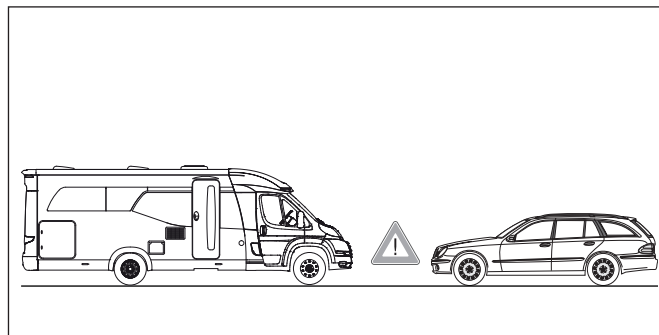
### In addition:

- Check your tyre pressure.
- Check all liquids, such as oil, cooling water, brake fluid and windscreen cleaning liquid, and fill them up if necessary.

### Before driving off

Before you drive off you should be able to answer the following questions with “yes“:

- Is there a first-aid kit; a warning triangle and a warning jacket on board?
- Are all the lights working (headlights, dipped headlights, brake lights and indicators)?



## 2.6 Notes for your journey

### Your motor home is not an automobile!

In many situations, it reacts very differently to a “normal“ automobile. Therefore, you should be prepared for the following differences:

### Loading

#### The following applies for loading:

- Load evenly. Heavy or bulky objects should be placed in the lower compartments!
- In the interior, store luggage in cupboards and compartments.
- Secure all doors and flaps.

- After you have finished loading, check the overall weight on a public scales.

## Roof load (50 kg maximum)

The height of the motor home may vary from one journey to the next due to different roof loads.

### The following applies for roof loads:

- Add the measurement of the roof load to the height of the motor home.
- Place a not visibly in the driver's cab giving the overall height. This saves having to calculate the height when driving under bridges and through tunnels.

## Rear garage

When loading the rear garage adhere to the permissible axle loads and the technically permissible total mass. Distribute payload evenly. Excess point loads will damage the floor covering.



- The maximum permissible load for the rear external storage locker is 200 kg.
- On no account should the permissible rear axle load be exceeded.
- Due to load removal on the front axle, it is considerably more difficult to handle the vehicle when the rear garage is fully loaded.

## Passenger safety

### The following applies while driving:

- Only those seats equipped with safety belts may be used by passengers.
- People may not be lying in the beds while driving.
- Passengers must remain in their seats with their seat belt on!
- Do not open the door latch!
- No extra passengers may remain in the vehicle!

## Braking

### The following applies for braking:

- Not the longer braking distance, especially on wet roads.
- When driving downhill, select a gear that is not higher than when driving uphill.

## Reversing/Manoeuvring

### Your engine home is far larger than a car.

### The following applies to reversing/manoeuvring

- Even if the wing mirrors are correctly adjusted there is a significant blind spot.
- When reversing or parking in places with poor visibility get help to guide you in.

## Driving

Take a trial drive before leaving on your first large journey in order to familiarize yourself with the motor home. Remember to practise reversing. The base vehicle is a commercial vehicle; adjust your driving style accordingly.

### The following applies for driving:

- Do not underestimate the length of the engine home. Due to the relatively long rear overhang larger vehicles can veer to one side and, in unfavourable conditions, the rear can hit the ground.
- Be careful when driving into inner courtyards and through entrance gates.
- The motor home may start to swing from side to side in cross-winds, on wet or icy roads.
- Adjust your speed to road and traffic conditions.
- Long descents with a slight gradient can become dangerous. Adjust your speed from the very beginning to allow you to speed up if necessary without endangering other automobiles.
- As a general rule, never drive faster downhill than uphill.
- The motor home may be caught up in a slipstream when overtaking or being overtaken by lorries with trailers or buses. This effect is counteracted by lightly counter-steering.
- Use foresight while driving; take regular breaks on longer drives.

## Driving around corners

Due to its height, a motor home begins to sway more quickly than an automobile.

### The following applies for driving around corners:

- Never drive too quickly into a corner!

## Driving economically

The engine of your motor home has not been designed to drive constantly under a full load.

### The following applies when driving:

- Do not keep your foot down on the accelerator!
- The final 20 km/h before reaching top speed require up to 50 % more fuel!

## Getting petrol

A number of devices that use an open flame have been built into your motor home.

### The following applies when getting petrol:

- Turn off all accelerator devices (heating, refrigerator, etc.)!
- Turn off all mobile phones!
- Never get anything other than diesel fuel.
- Never mistakenly fill the fresh water tank with fuel.

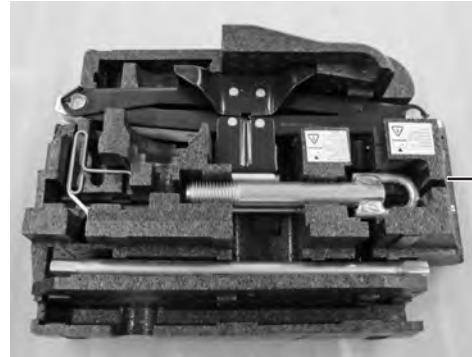


## 2.7 Vehicle tool kit

Each vehicle comes with individual basic equipment including a vehicle tool kit and accessories:

### Fiat:

The tool box ① is located under the passenger's seat. If you need to access it, open the flap under the passenger seat, turn the handle on the tool box counter-clockwise and then remove it. The tool box will then slip out.



### Renault:

The tool box ② is located under the driver's seat. Push the seat forwards to remove tools from the box.



## 2.8 Emergency equipment

To be prepared in case of an emergency, you should always carry the three emergency devices on board and familiarize yourself with them.

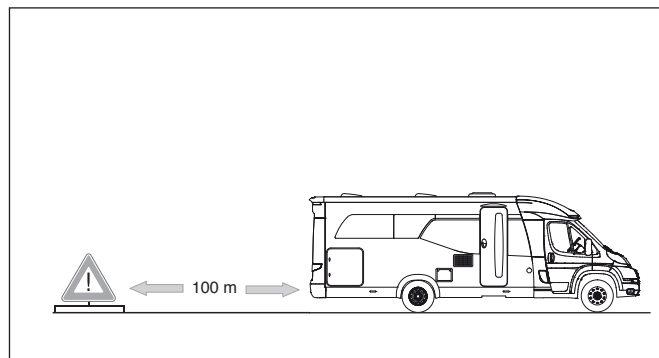
### First-aid kit

The first-aid kit should always be at hand and have a fixed position in your motor home. Any objects removed from the first-aid kit should be replaced immediately. Expiry dates should be checked regularly.

### Reflective jacket (not included in scope of delivery)

In acc. with EN 471, we recommend that you carry and wear a reflective jacket with white retro-reflective stripes whenever you leave the vehicle on open roads and emergency strips. The driver should wear this jacket when the vehicle

- comes to a stop outside city limits on an obscure rural road because of an accident or breakdown, if the view is poor due to bad weather, in twilight or darkness, or
- when it must be secured by means of a warning triangle on the emergency strip of the engine way because of an accident or breakdown.



### Warning triangle

The warning triangle should also always be at hand and have a fixed position in your motor home, preferably together with the first-aid kit.

### In an emergency

- Set up the warning triangle at least 100 m in front of the danger zone!

## 2.9 When you stop driving

### Selecting a parking space

#### The following applies for selecting a parking space:

- Select a parking space that is as level as possible.
- If possible, pick your spot in daylight.

### Securing the vehicle

#### The following applies when securing the vehicle:

- Put the vehicle in gear.
- Pull on the handbrake.
- If necessary, extend extra vehicle supports.
- If necessary, use blocks (not in scope of delivery).



If the temperature is below 0°C only put the handbrake on lightly and ensure that the vehicle is in gear to prevent the handbrake from freezing up!



When turning the driver's seat, ensure that you do not accidentally disengage the handbrake.

### Switching electric consumption:

#### The following applies when switching electric consumption:

- Switch the refrigerator from 12 V to accelerator or 230 V. Otherwise, if the engine is not on, the 12 V electrical supply will automatically turn itself off after a few minutes.
- Open the main stop valve on the accelerator cylinder and the accelerator stop valve on the consumer required.

### Water system

Empty the entire water system if the vehicle is not heated when there is danger of frost. Turn the taps to the centre position and leave all of the outlet valves open.

Water that has been left to stand in the fresh water tank or water pipes quickly becomes undrinkable. Therefore always flush the water pipes thoroughly with several litres of fresh water before using them.

## **Saving energy in winter**

It is very easy to save energy inside your motor home. This applies especially to heating in winter.

### **The following applies for saving energy:**

- Meter the exact use of ventilation in the vehicle and the heating valve.
- Install winter mats on the inner sides of the driver's cabin and the windscreen (not included in scope of delivery).
- Attach the insulating mat between the driver's cab and the interior of the motor home (not included in scope of delivery).
- Open the outside door as seldom and briefly as possible.
- If you are camping in winter, attach a small outer tent. This will offer protection against the cold.



## Chapter 3: Chassis

### 3.1 Chassis

The chassis includes parts of the frame and the axles. No technical changes may be made, as otherwise the general type approval will expire!



Technical changes may only be carried out after being released by the manufacturer.



For further information, please refer to the enclosed operating instructions for the basic vehicle.

### 3.2 Loading



The maximum axle loads as well as the technically permissible overall mass entered in the vehicle's documents may not be exceeded.

#### Weights of motor homes in accordance with 92/21/EWG



Please refer to the definition of masses for motor homes!

#### Definition of Masses for Motor homes

Throughout Europe, EU Guideline 92/21/EWG is applicable for calculating the masses (weights) and resulting loads for motor homes. The terms and basis used for calculations are explained below.

##### 1. Technically permissible overall mass

Information regarding the technically permissible maximum weight is based on Hobby Wohnwagenwerk's specification in cooperation with the manufacturers of the previous construction stages (Fiat, Renault). This weight was determined in detailed calculations and tests. It is specified in the basic approvals and, for safety reasons, it must not be exceeded under any circumstances.

##### 2. Mass when the vehicle is ready to start

The mass when the vehicle is ready to start corresponds to the mass of the empty vehicle including lubricants, tools, spare tyre (and/or repair kit), petrol (100 %), booster battery, all of the standard equipment mounted by the factory as well as 75 kg for the driver, plus basic equipment (gas, water, electric).

##### 3. Basic equipment

The basic equipment includes the masses for fresh water and the gas storage containers, which have been filled to 90 % of their total capacity. The masses for the individual models are calculated in detail as follows:

|   | <b>FIAT<br/>Premium Drive</b> | <b>RENAULT<br/>Premium Van</b> |
|---|-------------------------------|--------------------------------|
| <b>a) Supply of liquefied petroleum gas</b> |                               |                                |
| Number of built-in gas regulators:          | 1                             | 1                              |
| Weight of an 11 kg aluminium bottle:        | 5,5                           | 5,5                            |
| Weight of 11 kg gas inflation (90 %):       | 9,9                           | 9,9                            |
| <b>Total:</b>                               | <b>15,4</b>                   | <b>15,4</b>                    |
| <b>b) Liquids</b>                           |                               |                                |
| 100 l fresh water tank (90 %)               | 90                            | 90                             |
| 10 l fresh water tank (90 %)                | -                             | -                              |
| <b>c) Electric power supply</b>             |                               |                                |
| <b>Cable drum</b>                           | 4                             | 4                              |
| <b>Total basic equipment:</b>               | <b>109,4 kg</b>               | <b>109,4 kg</b>                |

#### 4. Loading

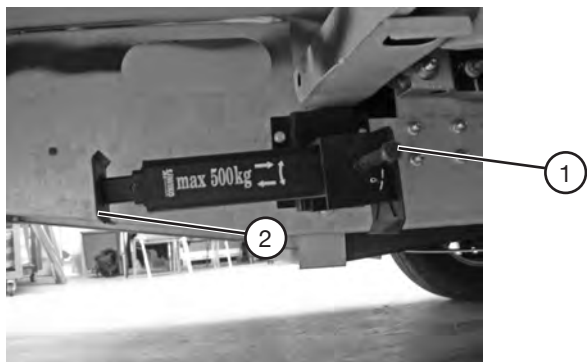
Loading corresponds to the difference between the "technically permissible overall mass" and the "mass when the vehicle is ready to start". This value must take into consideration the masses for passengers (conventional load: 75 kg x no. of seats, driver excepted), additional equipment and personal belongings.



Check to ensure that the masses of all objects transported in the motor home have been taken into consideration, e.g. passengers, additional equipment, basic equipment and personal belongings such as clothes, food, pets, bicycles, surfboards, other sport equipment, etc.).



Under no circumstances may the technically permissible total load be exceeded when the motor home has been loaded.



### 3.3 Levelling supports (Optional Extra)

The levelling supports are located in the rear area by the frame extension.

#### Swinging out the levelling supports

- Place the crank on the hexagonal head ① .
- Turn the crank to move the support to a vertical position.
- If necessary, secure the foot ② to prevent it from sinking into the ground and place it on a firm base.
- If the levelling support is in a vertical position, the support foot will extend telescopically.
- Use the crank to level the levelling supports until the vehicle stands level.



#### Retracting levelling supports

- Use crank to release levelling supports.
- Continue to crank smoothly until the levelling support is once again in its initial horizontal position.



- Do not use the levelling supports as a car jack. Their sole purpose is to stabilise the motor home when it is parked.
- Always load the levelling supports evenly.
- Always retract the levelling supports and secure them before driving.
- Clean the levelling supports regularly and grease them slightly.



The telescopically adjustable foot may only be extended as far as the yellow marking!





### 3.4 Entrance step

The motor homes are equipped with an electrically extendable entrance step ①. Vehicles based on the Fiat model have just one step (see photo) while vehicles based on the Iveco model have two steps to adjust for the extra height.



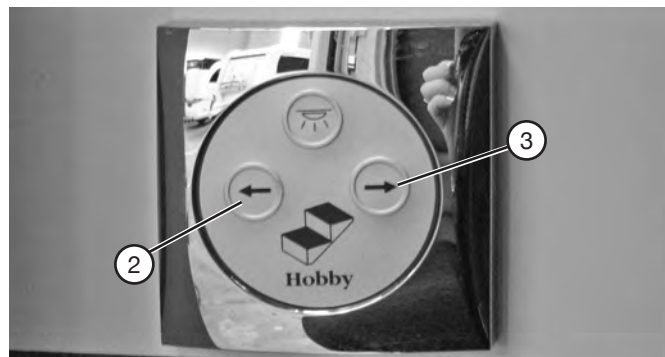
Do not step on the entrance step until it has been completely extended!



Mind the different heights of the steps and ensure that the ground in front of the entrance is firm and level.



Always retract the entrance step before driving!



#### To open

- Press the switch ② in the entrance area to the left.  
The entrance step will be extended automatically.

#### To close

- Press the switch ③ in the entrance area to the right.  
The entrance step will be retracted automatically.



If, due to dirt or frost, the entrance step does not function properly or at all, the hinges must be cleaned or defrosted.



### 3.5 Vehicle identification number (VIN)

On Renault models, the 17-digit vehicle ID number is located above the right entrance step. On Fiat models, it has been applied to the inner wheel case on the passenger's side. To identify it more easily, the VIN on Fiat models can also be found on a label on the left-hand side of the dashboard, which is legible from outside the vehicle. In addition, the VIN is also given on the type plate of the base vehicle as well as on the Hobby type plate (in the motor compartment on the upper front cross member of the radiator). Always have your VIN at hand whenever you have a question or visit your dealer/contractual partner.



### 3.6 Additional pneumatic springs

Additional pneumatic springs on the rear axle (optional extra) provide a significant improvement to the motor home's road handling and complement the standard suspension. The air bellows lift the vehicle's tail as required.

The compressor is activated from the driver's cabin operating panel using the On/Off button ①, thereby filling the bellows with air. The manometer ③ can be used to provide continuous information regarding the current pressure in the system. Should excess pressure occur the excess air can be released from the system using the ventilation button ②.

The optimum air pressure is achieved when the vehicle is standing horizontally. The minimum air pressure must be high enough to ensure that the air bellows cannot snap through. When the vehicle is empty this pressure is approx. 0.5 bar (please check individually); when the vehicle is loaded the value will be correspondingly higher, depending on the loading.



The maximum permissible operating pressure of the system is 4.0 bar.

In order to avoid damage to the air bellows during maintenance work they should be checked for any accumulation of waste or dirt and, if required, cleaned.



The following cleaning agents are approved for cleaning the air bellows: soap suds, methanol, ethanol and isopropanol.



### 3.7 Towing fixture (Optional Extra)

Please see the registration documents for information concerning the tow bar load and the rear axle load.

|                       | <b>FIAT</b> | <b>RENAULT</b> |
|-----------------------|-------------|----------------|
| Max. trailer load:    | 1600 kg     | 2000 kg        |
| Max. drawbar load.:   | 75 kg       | 80 kg          |
| Max. towing weight.:  | 5100 kg     | 5500 kg        |
| Max. rear axle load.: | 2000 kg     | 2100 kg        |



The Fiat models 70 GE, 70 GF, 70 HGE and 70 HGF with a lowered frame have a maximum towing weight of 2,000 kg. At the time of going to print, the permissible drawbar load had not been defined; please refer to the documents for the vehicle for the permissible load.



Adhere to the permissible tow bar load and rear axle load, in particular in conjunction with loading of the rear garage. Simultaneous use of the tow-bar and the rear carrier and/or eBike carrier is not permitted. While manoeuvring to hitch and unhitch loads, ensure that no-one is standing between the motor home and the trailer.



Due to stipulations by the manufacturer of the basic vehicle and the fixing of the so-called D value of the towing fixture no additional loading of the towing loads is possible.

## 3.8 Externally mounted fixtures

### Registering accessories in the vehicle's documents

- Have your HOBBY dealer mount your externally mounted fixtures.
- Take your motor home to a technical support organisation or technical service provider (e.g. MOT).
- The technical support organisation will approve the fittings and draw up a corresponding expertise. (road traffic authorities)
- Take the expertise and the registration documents, Parts I and II, to the Driver and Vehicle Licensing Agency. They will copy the changes into the vehicle's documents.



Do not forget that towbar couplings, motorcycle carriers, leveling devices and/or additional spring blades must be registered.



Please note that mounting additional equipment reduces the load your motor home can carry.

### 3.9 Automatic transmission

As an option, your motor home can be equipped with an automatic transmission (Fiat: Comfort-Matic; Renault: Quickshift) which has two methods of operation: MANUAL/gearshift and AUTO(MATIC). Since the clutch is engaged and released by means of an electro-hydraulic unit that is controlled by the transmission's control unit, the clutch pedal is superfluous and, therefore, it has been removed. Both the selected method of operation as well as the gear you are driving in are shown on the multifunction display panel.

#### FIAT Comfort-Matic

The gearshift lever on the dashboard has three fixed positions:

- the centre position for selecting the forward gear,
- N for selecting the neutral position (engine is idle),
- R for selecting the reverse gear.

Starting from the centre position, which corresponds to the forward gear, the lever can be moved as follows:

- forwards (- position) to select a lower gear (i.e. shifting down),
- backwards (+ position) to select a higher gear,
- to the left (A/M position) to select automatic or manual mode, alternatively.

These three positions are not fixed, i.e. after the lever has been moved it jumps back to the centre position.

#### Renault Quickshift

The gearshift lever has only one fixed gearshift position. Starting from the centre position, the lever can be moved in the following directions:

- to the left: for shifting between manual operation and automatic
- to the right: neutral
- to the right and back: reverse gear
- forwards: to shift up to a higher gear (when in manual operation)
- backwards: to shift down to a lower gear (when in manual operation)



Each time you move the gearshift, it automatically jumps back to the centre position.

#### Manual operation

This method of operation allows the driver to select a suitable gear according to the conditions under which the vehicle is being driven. Switch gears as follows:

- Move the lever in the direction of (+) to shift up or in the direction of (-) to shift down. Do not let go of the gas pedal while you are shifting gears.

The system will only allow you to shift when such an action will not prevent the motor or the transmission from functioning correctly. As soon as the motor reaches idle speed, the system will automatically shift down (e.g. when braking).

### Automatic operation

The lever must be pressed in the direction of A/M in order to switch automatic operation on or off. The system automatically shifts gears on the basis of the vehicle's speed, the engine rpm and the position of the gas pedal. If necessary, the system will shift down one or more gears when you press the gas pedal to the floorboard. This will provide you with the required performance and torque to achieve the acceleration you require.

### Parking the vehicle

To ensure that the vehicle is safely parked, step on the brake pedal and then shift into either first gear or reverse (R). Furthermore, when parking on a slope, you must also pull the hand brake.



Never leave the vehicle when the transmission is in neutral (N).



If the vehicle is not moving and you have already shifted into gear, always step on the brake pedal until you have decided to start driving. Only then should you release the brake pedal and slowly step on the gas pedal.



If the vehicle is not moving and the engine is running for a longer period of time, we recommend that you shift to neutral (N).



Do not use the gas pedal as a means of holding the vehicle in one spot (e.g. on a slope). Instead, use the brake pedal and step on the gas only when you start to drive.



If you want to shift into first gear when in reverse gear (R) or vice versa, the gearshift lever may only be moved when the vehicle is standing completely still and you are stepping on the brake pedal.



For further information, please refer to the operating instructions for the base vehicle. Please familiarise yourself sufficiently with the operation of the automatic transmission before you use your vehicle the first time.

## Chapter 4: Wheels, tyres, brakes

### 4.1 Wheels

If you are driving a new vehicle, or after changing a tyre, tighten the wheel bolts or nuts after you have driven the first 50 km and then again after the following 100 km. For your safety, do not use any tyres or fixing material other than what was originally stipulated. Wheel bolts and nuts should then be checked regularly to ensure that they fit tightly.

#### Tightening torque for wheel nuts and bolts:

| Rim size | Fiat Ducato | Renault Master |
|----------|-------------|----------------|
| 16"      | 180 Nm      | 172 Nm         |
| 15"      | 160 Nm      | –              |

### 4.2 Tyres

Use only tyres that have been entered in the vehicle's documents. Other tyre sizes may only be used if they have been permitted by the manufacturer of the basic vehicle.

#### Driving to protect your tyres

- Avoid braking sharply and racing starts.
- Avoid long drives on poor roads.
- Never drive an overloaded vehicle.



Tubeless tyres have been mounted on your HOBBY motor home. Under no circumstances may tubes be inserted in these tyres!

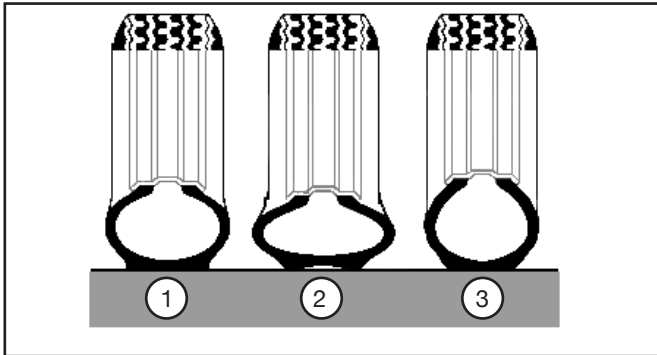


#### Winter tyres are mandatory in many EU countries!

If you are driving in snow, ice or sludge in one of these countries, your vehicle must be fitted with tyres that have the "M+S" symbol. You may be fined if you ignore this legal requirement.



Snow chains can only be mounted to tyres that are just as large as the tyres originally mounted on your vehicle. Snow chains may only be mounted on the front drive wheels; it is strictly forbidden to mount snow chains on the rear wheels.



### 4.3 Tyre pressure

The inflation pressure of all tyres as well as the spare tyre should be checked approx. every 4 weeks and before you go on longer journeys.

#### The following applies when checking inflation pressure:

- Check the pressure only when the tyre is cold.
- If checking or correcting the pressure of a warm tyre, the pressure must be 0.3 bar higher than for a cold tyre.

#### The following applies for inflation pressure:

- correct inflation pressure ①.
- inflation pressure too low ②.
- inflation pressure too high ③.



If the pressure is too low, this may cause overheating of the tyre, possibly resulting in severe damage to the tyre.



For the correct inflation pressure, please refer to the table in the chapter on “Technical Data“ or the operating instructions for the basic vehicle.

### 4.4 Tread depth

Replace your tyres as soon as the tread depth is only 1.6 mm.



The minimum tread depth gives you only the barest amount of safety while driving. The following recommendations must be observed:

- Safety limit in summer: 3.0 mm
- Safety limit in winter: 4.0 mm

Tyres may not be exchanged crosswise, i.e. from the right side of the vehicle to the left and vice versa.



Tyres age even if they are used seldom or not at all.

#### Tyre manufacturers' recommendations

- Irrespective of their tread depth, tyres should be changed every 6 years.
- Avoid hard impacts against curbs, potholes or other obstacles.



## 4.5 Wheel rims

Use only those wheel rims listed in the vehicle's documents. Please observe the following points, should you wish to use other wheel rims.

### The following applies when using other wheel rims:

- Size,
- construction,
- injection depth and
- The load bearing capacity must be sufficient for the permissible total axle weight.
- The cone of the fastening screw must correspond to the construction of the wheel rim.

Adaptations are only permitted if these have been released by the manufacturer.

Aluminium wheel rims must be tested separately for each type of vehicle. The screws used on aluminium rims may not be used for steel rims.

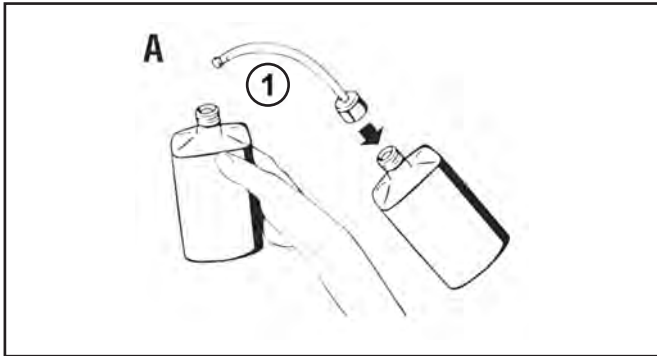


## 4.6 Tyre repair kit

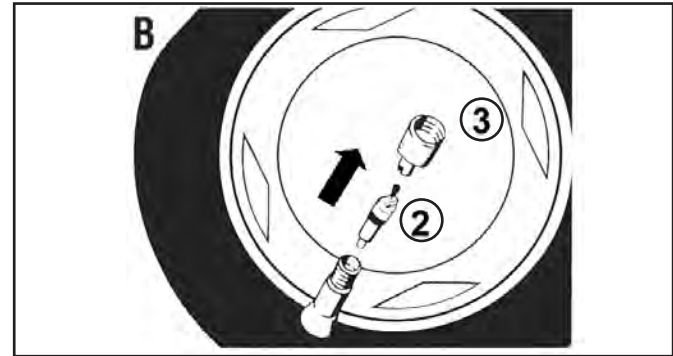
Do not use the tyre repair kit if the tyre was damaged as a result of driving without air. Small cuts, especially in the tyre tread, can be resealed using the tyre repair kit. Do not remove foreign bodies (such as screws or nails) from the tyre. The tyre repair kit can be used at outside temperatures to a minimum of approx. -30°C.



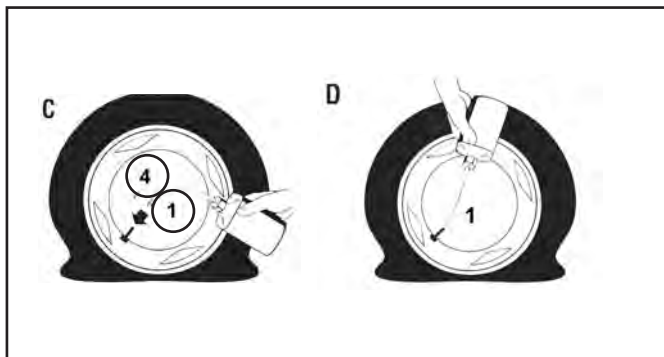
There is an expiry date on the tyre repair kit. Therefore, please note this date. Kits that have expired no longer offer a guarantee that they will function properly.



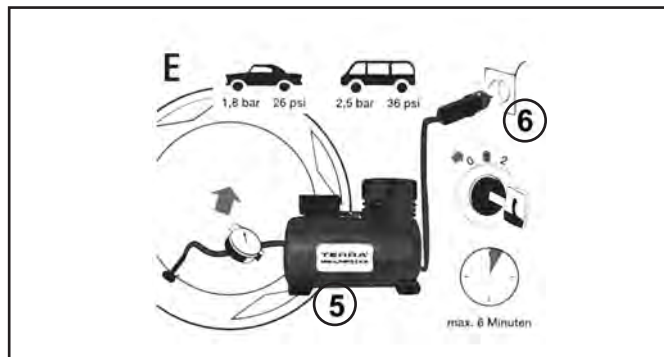
**A** Shake the bottle. Open the fill hose ① on the bottle (foil seal is thereby punctured).



**B** Unscrew the valve cap from the tyre valve. Remove the valve insert ② with the valvecore remover ③. Do not lay the valve insert ② down in sand or dirt.



- C** Pull the stopper ④ from the fill hose ①. Push the fill hose onto the tyre valve.
- D** Hold the bottle down with the filling tube and then press them together. Press the entire bottle contents into the tyre. Pull the fill hose off ① and screw the valve insert ② tightly into the tyre valve with the valve-core remover ③.



- E** Open the air hose ⑤ on the tyre valve. Insert the plug ⑥ into the cigar lighter socket. Then pump the tyres. Do not operate the electric air pump longer than 8 minutes! Danger of overheating! If sufficient air pressure is unattainable, drive 10 meters (either forward or in reverse) so that the sealant can be evenly distributed within the tyre. Repeat the pumping process. Resume driving immediately, so that the sealant can be evenly distributed within the tyre.

**Maximum speed: 80 km/h. Especially in curves.**

Check tyre pressure after driving 10 minutes. If the tyre pressure has fallen under this minimum value, you may not drive any further.

If the minimum value is still indicated correct the tyre pressure according to Table 12.2. Drive carefully to the nearest workshop and have the tyre replaced.



**Danger of accidents:** If the required tyre pressure is still unattainable the tyre is too severely damaged. In this case the tyre repair kit can no longer provide an effective seal. Do not, therefore, drive any further. Notify a service station or the 24-hour service hotline.



**Danger of accidents!** Have the tyres replaced at the nearest service station.

## Warning when changing the tyre



The car jack may only be inserted in the appropriate mounting holes! If the car jack is attached in other places, this may cause damage to the vehicle or even accidents if the vehicle falls off the jack.



The car jack is to be used only for changing tyres. It may never be used when working underneath the vehicle!  
Danger of death!



The levelling supports may not be used as a car jack!



When changing a tyre, please also observe the vehicle manufacturer's operating instructions.

- Remove the wheel mounting screws and lift off the tyre.
- Place the spare tyre (not included in the scope of delivery) on the wheel hub and align it.
- Screw the bolts on and tighten them in a diagonal sequence.
- Lower the car jack and remove it.
- Tighten the wheel mounting screws evenly with the wheel spanner. Please refer to the operating instructions for the base vehicle for the specified value of the tightening torque of the wheel mounting screws.
- Place the tyre you have removed in the (possibly existing) spare tyre holder and then shut the holder.

## Changing a tyre

- Place a firm base, such as a piece of wood, underneath the car jack if the vehicle is on soft ground.
- Insert the car jack into the appropriate mounting holes.
- Turn the wheel spanner a few times to loosen the wheel mounting screws, but do not remove them.
- Jack up the vehicle until the wheel is 2 -3 cm above the ground.

## 4.7 Brakes

The components in the brake system are part of the General Type Approval (“Allgemeinen Betriebserlaubnis“, ABE).

If you change the components in the brake system, the type approval expires. Any changes are only possible if they have been released by the manufacturer.



It is in your own interest to have the brakes checked regularly by your Fiat or Renault workshop.

### **The following applies when maintaining the brake system:**

- Check the level of brake fluid regularly.
- Check the brake system and brake hoses regularly for leakage. Rodents often gnaw at rubber hoses.
- Use only brake fluids with the same qualities as those fluids already in the brake circuit.

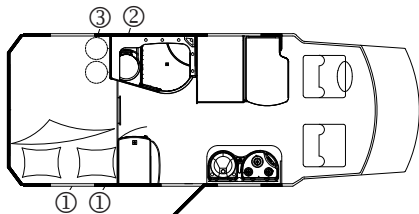


For further information, please refer to the Fiat Ducato or Renault Master operating instructions.

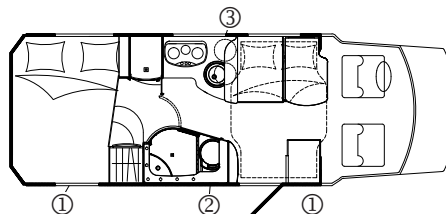
# Chapter 5: Exterior Structure

## 5.1 Overview of tank and service flaps RENAULT Premium Van

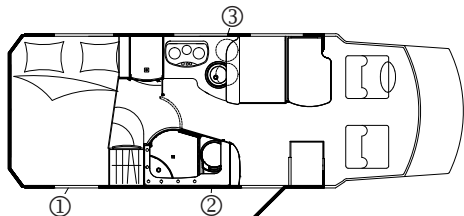
55 GF



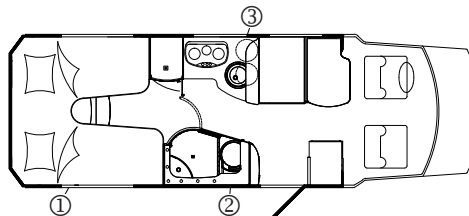
60 HGF



60 GF

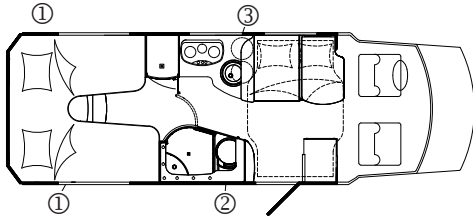


65 GE



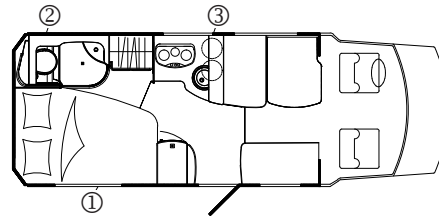
- Storage flap ①
- Toilet flap ②
- Gas box flap ③

65 HGE

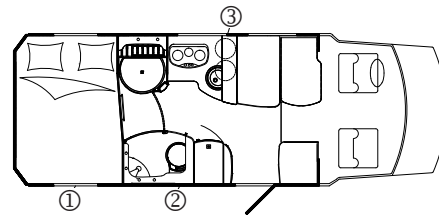


## FIAT Premium Drive

65 FL



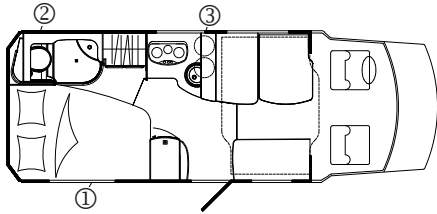
65 GF



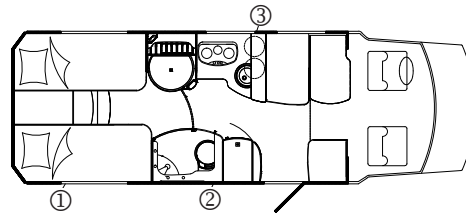
- Storage flap ①
- Toilet flap ②
- Gas box flap ③



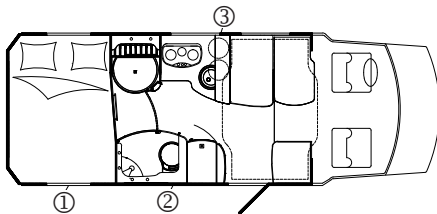
65 HFL



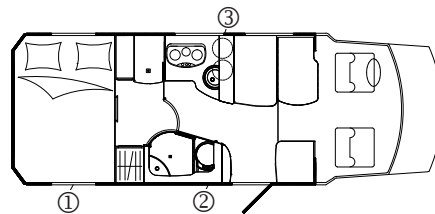
70 GE



65 HGF

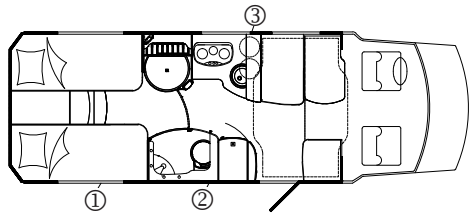


70 GF

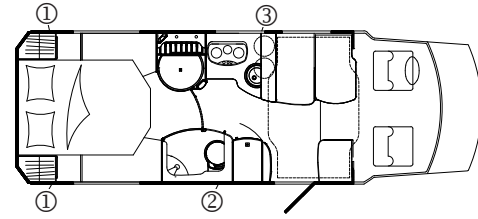


- Storage flap ①
- Toilet flap ②
- Gas box flap ③

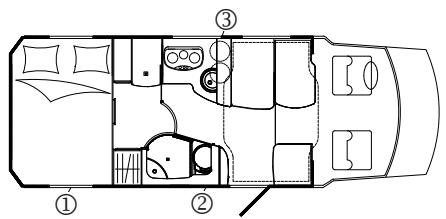
70 HGE



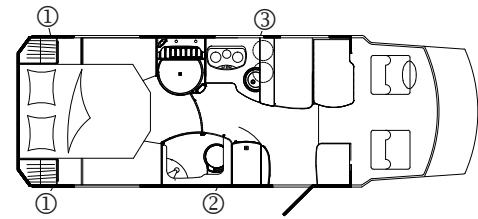
70 HQ



70 HGF



70 Q



## 5.2 Ventilation

### The following applies for ventilation:

Ventilation is important if you want to feel comfortable in your motor home. No-draught ventilation has been integrated above the driving unit in your motor home. The roof lights ensure ventilation. Never interfere with the way in which they operate.

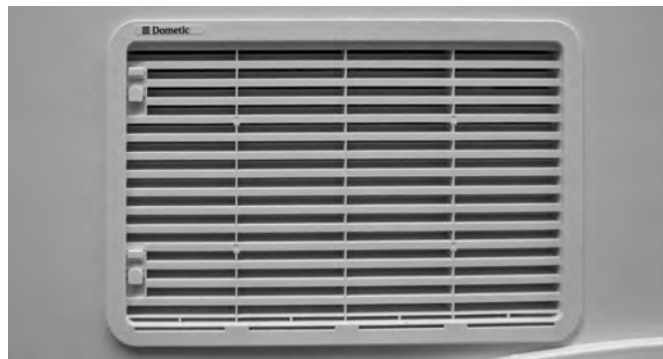
Appropriate covers can be used to close the ventilation of the refrigerator, provided it does not run on gas.



Note the information given on the covers. They may only be used when the refrigerator is operated electrically in winter. For more information, please refer to the refrigerator manufacturer's operating instructions.



Watery vapour is produced while cooking, from wet clothes, etc. Every person transpires up to 35 g of water per hour. Therefore, depending on the relative humidity, the windows and skylights must be opened for further ventilation (see also "Operating in Winter").



## Refrigerator

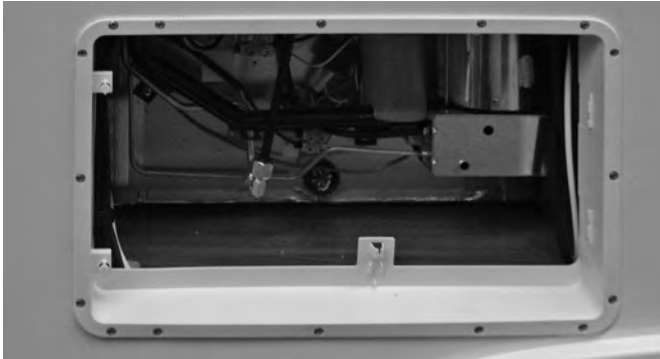
Grates supply the refrigerator with fresh air from outside to ensure sufficient refrigerating capacity. The grate for fresh air intake is on the outside wall of the vehicle. The ventilation grill is located on the roof.



**Danger!** You can suffocate if the ventilation openings are blocked! Never block ventilation openings.



Apply special covers when operating the motor home in winter. These covers can be purchased from your dealer.



We recommend that you remove the ventilation grate if the outside temperature is very high. This allows more air to permeate to the refrigerator, intensifying refrigeration. The ventilation grids must remain firmly mounted while driving or when it is raining.

### Removing the ventilation grate

- Push the locks as far up as they will go.
- Carefully lift open the ventilation grid on the left-hand side
- Then pull the right-hand side out of the bracket.



### Heating

The heating system is supplied with fresh air from outside ①. This ventilation flap also permits exhaust air from the system to escape.



Blocked ventilation openings can lead to suffocation! Therefore, never block ventilation openings. When operating in winter ensure that the chimney outlet is not blocked.

## 5.3 Opening and closing doors and flaps

### Keys to the vehicle

The following keys are delivered with the motor home:

- two keys to fit the following locks on the base vehicle:
  - driver's and passenger's doors
- a code card.



Note the manufacturer's operating instructions for the basic vehicle.

- two keys that fit the following locks on the structure:
  - entrance door
  - service flaps
  - toilet flaps



In addition, a self-adhesive aluminium plate is included in delivery, engraved with the key number of the base vehicle.



### Entrance door external

#### Opening

- Use key to unlock door.
- Pull on door handle.
- Open door.

#### Closing

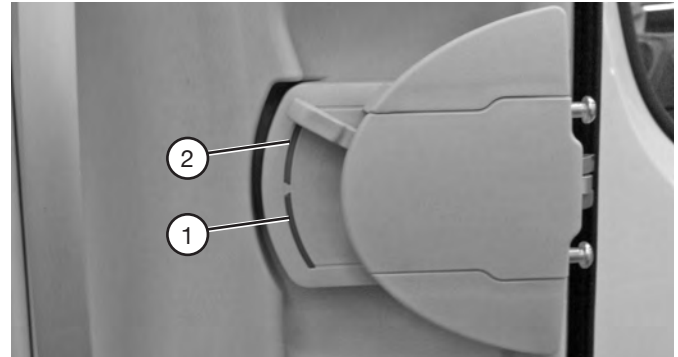
- Close door.
- Turn key until you hear the bolt lock into place.
- Turn key back to verticle position and pull it out.



To prevent damage to locks and door frames, the inner door handle must be positioned horizontally and not slanted upwards.



The entrance door is your escape route in an emergency. Never barricade the door from the outside!



## Entrance door internal

### Opening

- Push the bolt down (green section ①).



### Closing

- Pull the door shut until you hear it lock.

### Locking

- Push the bolt up (red section ②), please refer to the photo on pg. 05-8



This allows a door which has been locked from the outside to be opened from the inside.



The entrance door is your escape route in case of emergency. Never obstruct the door from the outside.



### Stowage flap

#### To open

- Unlatch the lock with the key.
- Turn the handle to the left.
- Swing the flap up.

#### To close

- Swing the flap down or to the side.
- Turn the handle to the right until the flap is pulled into the seal.
- Latch the lock with the key.



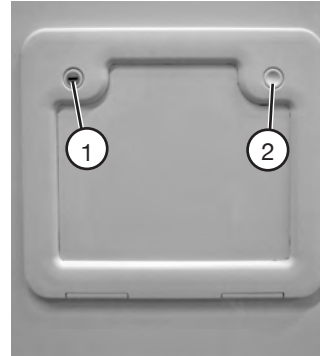
## Garage flap

### To open

- Unlatch both locks with the key.
- Turn the handle to the left.
- Swing the flap up.

### To close

- Swing the flap shut.
- Turn the handle to the right until the flap is pulled into the seal.
- Latch both locks with the key.



## Toilet flap

### To open

- Use key to unlock flap ①.
- Press both buttons (① and ②) and open flap.

### To close

- Press flap until it locks into place (both sides).
- Use key to lock flap ①.





### Gas-bottle Container Flap



The ventilation grill of the gas-bottle container flap must not be closed or covered.

#### To open

- Use the key to unlock the lock ①; the handle will jump out a little bit.
- Turn the handle to the left to open; this unlocks the flap, which can then be swung open

#### To close

- Turn the handle to the right; this pulls the flap into the seal.
- Place the key in the lock, push the handle in and lock the flap.

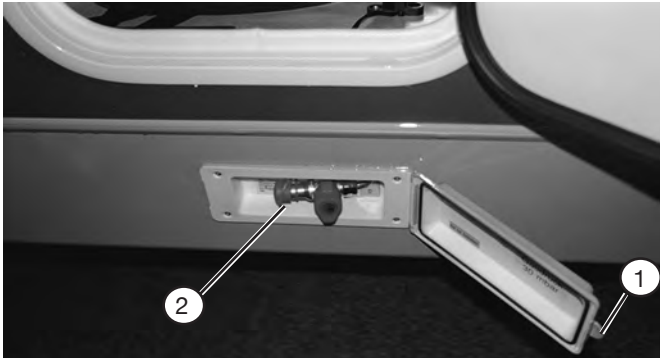
# Hobby



The locking device on the outer wall can be used to lock into place open gas-bottle container flaps that are hinged on the side.

#### To lock

- Open the gas-bottle container flap all the way.
- Lift open the locking device.
- Fit the nose of the locking device into the groove of the gasbottle container flap.



## Exterior gas supply

At the customer's request, the motor home can be fitted with an exterior gas supply (2). Equipment that uses gas, such as a gas grill or a gas lamp, can be supplied from outside the motor home. The exterior gas supply is located below the gas box flap.

### Opening

- Pull the cover plate (1) of the flap towards you.

### Closing

- Press the cover plate (1) of the flap shut until you hear it lock into place.



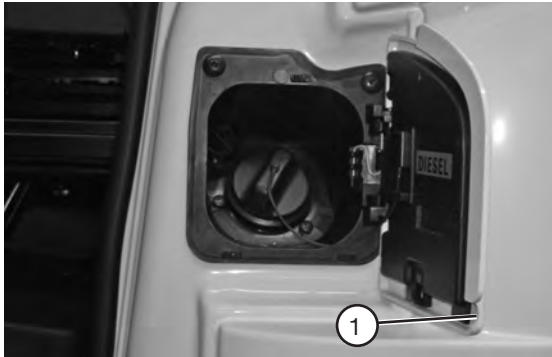
## Fresh water filler neck

### Opening

- Use key to unlock (1).
- Turn lid (2) firmly and remove.

### Closing

- Insert lid (2) and turn it closed.
- Use key to lock (1).



## Tank filler cap

The petrol cap for all Van and Drive models is located behind the driver's door behind a flap in the lower section of the B pillar.

### Opening

- Pull the flap open by inserting your finger into the convex opening ① and pulling it outwards (the driver's door must be opened first on the Renault model).

### Closing

- Push the flap until it locks.



Please refer to the separate operating instructions from Fiat or Renault for information on how to operate the petrol cap.

## 5.4 Roof rail (Optional Extra)

### The following applies when loading the roof rail:

- Only store light items of luggage on the roof.
- Lash the roof load securely and ensure that it cannot slip or fall off.
- Do not overload the roof! The heavier the roof load, the worse the vehicle's performance.

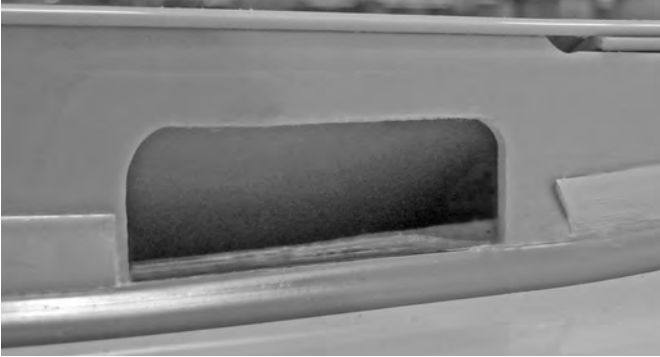


The maximum overall load is 50 kg.

- Observe the maximum permissible axle loads when loading.
- Add the measurements of the roof load to the height of the vehicle.
- Place a note with the overall height in a visible position in the driver's cabin to avoid having to calculate it when passing under bridges or through archways.



Only transport roof loads using an additional, suitable roof rack.



## 5.5 Roof Drains

Special drains have been mounted on the roof of vehicles with an alcove bed that drain water off the roof and down the side wall.

These drains must continuously be kept clean to prevent them from plugging up.



## 5.6 Velo eBike Carrier (Special Accessory)

The driver of the vehicle is responsible for ensuring that the load has been fastened securely. This means that the bicycles must be doubly secured on the carrier.

### To secure

- The clip ① must be attached to the bicycle as high as possible. We recommend that you use, for example, the saddle pillar or the steering rod.
- The wheels are strapped to the lower attachments ②. A tension belt can be used as an additional means of securing this load.



- Always maintain the permissible load-carrying capacity of the carrier (75 kg) and never overload it.
- If the rear carrier is fully loaded, and depending on how much the load juts out over it, the load on the rear axle will be increased while it will be decreased on the front axle. This can change the driving performance and steering and brake response of the vehicle.
- The carrier reduces the rear ramp angle of the vehicle. Therefore, the vehicle may touch the ground when driving over uneven terrain.
- The rear licence plate must be centrally mounted between the carrier's licence plate lights.
- Do not use a high-pressure cleaner to clean the carrier as this may damage the surface protection.
- Use only original spare parts and accessories that have been certified by SAWIKO in order to maintain your rights from the guarantee.
- Simultaneous use of the eBike carrier and the tow-bar is not permitted. Only one system may be mounted at a time: either the eBike carrier or the tow-bar.



For further information, please refer to the manufacturer's enclosed operating instructions and store them together with the documents for this vehicle. These operating instructions are an important document that enable you to take the carrier with you. Should an inspection be carried out, this document must be shown to the authorities upon request.



## 5.7 Sun awning (Optional Extra)

As option, your motor home can be fitted with an awning attached to the roof.



- An awning offers protection from the sun, not against the elements.
- Do not place people or obstacles in the extension/retraction area of the awning.
- The awning winding mechanism is fitted with a mechanical block control to limit the extent to which it can be extended. Never attempt to exceed the block control by force.
- Always support the awning with the integrated struts when extended.
- The awning must always be completely retracted and secured before driving.

### Extending

- Insert the hook on the crank into the grommet on the winding mechanism.
- Hold the crank with one hand on the upper twist grip and the other on the lower twist grip. During the operating procedure gently pull the crank towards you and hold it as vertically in the grommet as possible.
- Turn the crank clockwise until the awning has been extended to the desired position.
- Remove the crank.
- Unfold the telescopic rods on the inside of the drop tube and use them to support the awning.

### Retracting

- Retract the telescopic rods, fold them up and secure them.
- Insert the hook on the crank into the grommet on the winding mechanism.
- Turn the crank anti-clockwise until the awning has been fully retracted and is secured.
- Remove the crank and store it in the vehicle.



If the canvas is slack when extended, retract the awning until the canvas is tightly stretched again.

## Chapter 6: Interior Structure

### 6.1 Opening and closing doors and flaps



Close all flaps and doors properly before driving. This avoids them opening accidentally while driving and objects falling out.



#### Stowage cabinets

##### To open

- Slightly tilt the handle and then pull on it until the flap opens.

##### To close

- Press the flap shut until you can feel it close and lock.

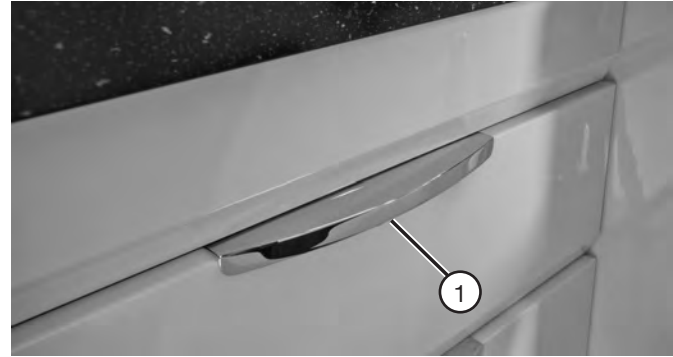


Store only light objects in the upper stowage cabinets.



### Furniture doors with handle

- Push the handle to open and shut the door.



### Drawers with a pressure lock

#### To open

- Press the bottom of the pushbutton ① to unlock the drawer.
- Pull on the handle until the pull-out opens.

#### To close

- Use the handle to press the flap shut until you can feel it lock into place.





### Doors with push locks

#### To open

- Depress the push lock until the knob pops out.
- Carefully pull the knob and open the door.

#### To close

- Push the door closed using the knob.
- Depress the push lock until the knob locks into place and the door is fastened.



### Bar in the entrance area

#### To open

- Pull on the handle and swing the door outwards.

#### To close

- Use the handle to press the flap shut until you can feel it lock into place.



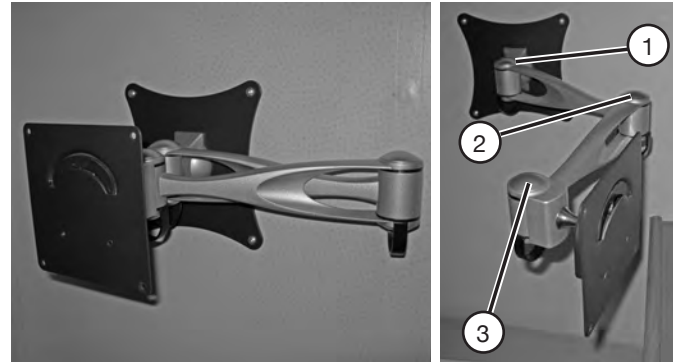
## Sliding doors

### To open

- Hold the sliding doors by the frame and push outward.

### To close

- Grasp the doors by the centre bar and push them shut until they meet in the middle.



## 6.2 TV mount for flat screen TV, 3-way universal hinged bracket (Optional Extra)

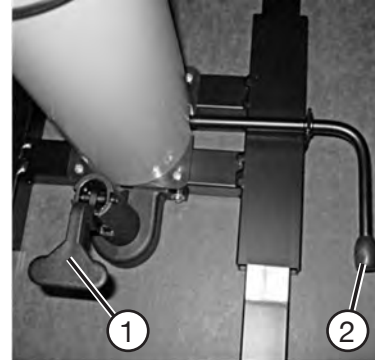
To pull the mount out or fold it in, move the telescopic arm manually at the joints marked ①, ② and ③.



Lock the media unit or TV holder before driving.



The mounted TV may not weigh more than 8 kg. When driving, we recommend that you remove the TV from the mount and store it securely.



### 6.3 Tables

#### Luxury Living Room Table, Swivels 360°

The optional luxury living room table can be lowered as well as turned. In addition, you can change the position of the rotary axis.

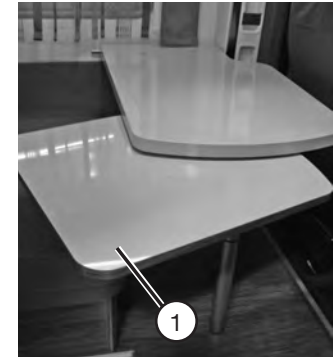
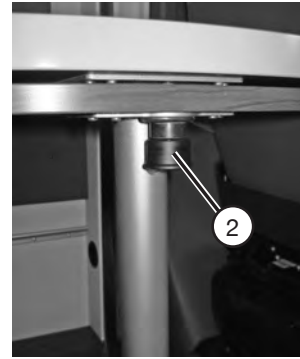
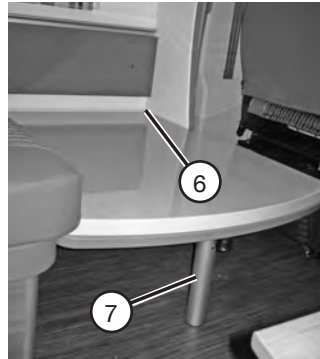
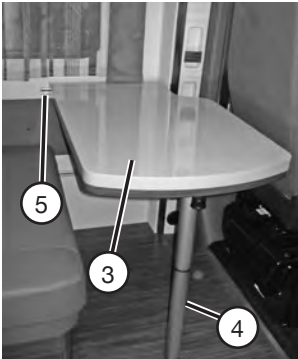
It is always possible to turn the table 360°.

#### Changing the rotary axis

- Press the lever ① and move the pillar to the desired position.
- To lock into place, move the lever ① back to its original position.

#### To lower

- Remove the cushions so that the cover plates of the bed are clearly visible and the exact lowering position can be seen.
- Pull the lever ② and press on the tabletop with both hands.
- To lock into place, move the lever ② back to its original position.



## Hanging table

When lowered, the hanging table can be used as a base frame for the bed.

### To lower

- Push the lower, pivotable table top ① fully under the upper table top until it locks into place.
- Raise the front end of the table top ③ by approx. 30°.
- Pull down the lower section of the table foot ④ and remove it.
- Pull the table top out of the upper wall rail ⑤.
- Hook the table top, still at a 30° angle, into the lower wall rail ⑥ and place the table on the shortened leg ⑦.

### To swivel out

- Pull the locking pin ② down and then let go.
- Swivel the lower table top ① to the desired position.



The hanging table must be in the lower position before the alcove bed is lowered in order to avoid a collision between the alcove bed and the table.

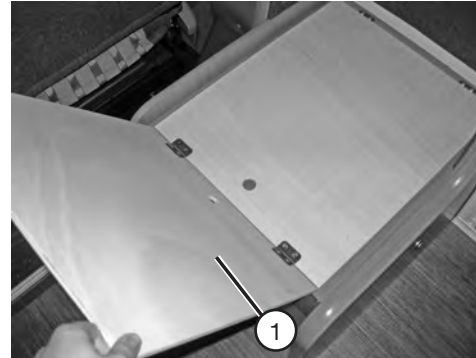


## 6.4 Bed conversion

The seating arrangements can be rearranged as comfortable beds for sleeping.

### To rearrange

- Remove all cushions.
- Lower the table. (see 6.3 Tables).

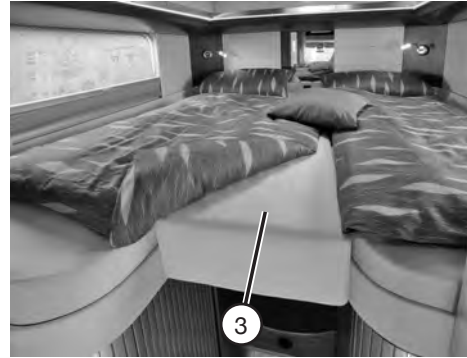
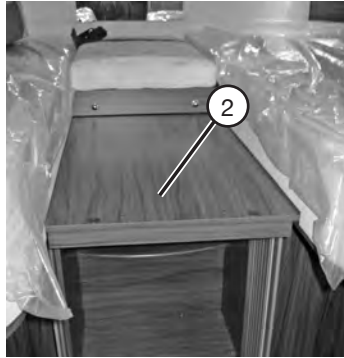
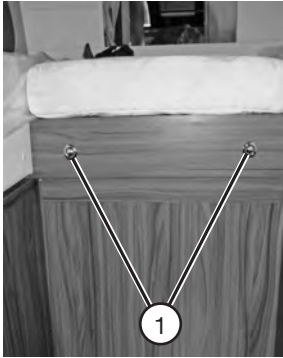


### Converting the Transverse Seat

In order to use the additional bed in the rear, the transverse seat must be converted.

#### Conversion

- Remove the seat and back cushions.
- Lower the pillared table.
- Fold the cushion ① cover forward by 180° and place it on the pillared table.



### Widening the beds (Optional Extra)

In those models with individual beds above the rear garage, the two beds can be joined by means of an extendable extension.

- Open both pushlocks ① .
- Pull out the extension ② as far as it will go.
- Shut both pushlocks ① to lock the extension into place.
- Insert the additional cushion ③.



### Alcove berth

Depending on the model, your vehicle may be equipped with an alcove berth as an additional sleeping area.

#### Preparation

- Unhinge the hanging table and lower it **(please refer to the chapter on tables)**.



- Place the key in the alcove bed panel and turn it to the right to “on”.
- Use the arrow down to lower the alcove bed as far as it will go.



- Hang the ladder ① (located in the garage when your camper is delivered).
- When sleeping, clip the safety nets (located underneath the mattress) into place in the attachments on the ceiling.



- The maximum load for the alcove berth is approx. 200 kg.
- Never use the alcove berth without setting up the safety mesh.
- Never leave children unattended in the alcove berth.
- Before driving, the alcove bed must be in its storage position and locked.
- Ensure that the lights attached underneath the alcove berth are turned off.



Please also note the manufacturer's separately enclosed operating instructions.





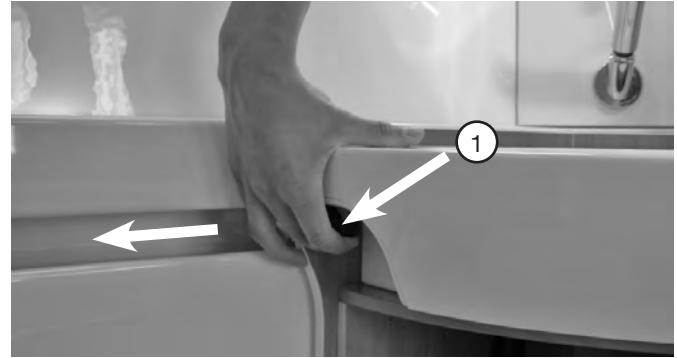
### 6.5 Elevated berths

Parents are responsible for ensuring that small children do not fall out of upper berths. If there are small children in the elevated bed at the rear end of the motor home, the safety nets must be pulled up and clipped into the brackets as a protection against falling out.

The safety nets are located below the mattress.



If you have put small children in the upper berths, secure them against the danger of falling out!



### 6.6 Washroom with Sliding Wall

You can slide the washroom elements in order to use the shower.

- Press the lever ① below the wash basin up and slide the wash basin together with the back wall along the guide rail towards the toilet.



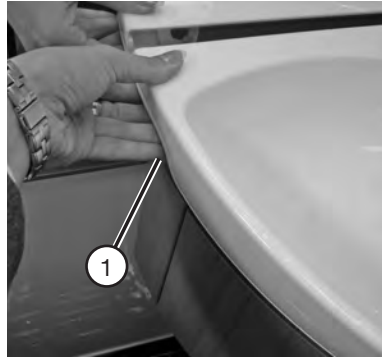
Before sliding the elements, turn the hand shower 90°!



While driving, the washroom with Sliding Wall must be firmly secured and locked into its basic position.



- Extend or unfold the shower walls and pull the tap out of its anchorage so that it can be used as a shower head.
- Put everything back into place by folding in the shower walls and pushing them back, and then push back the wash basin wall until you can feel it lock into place.



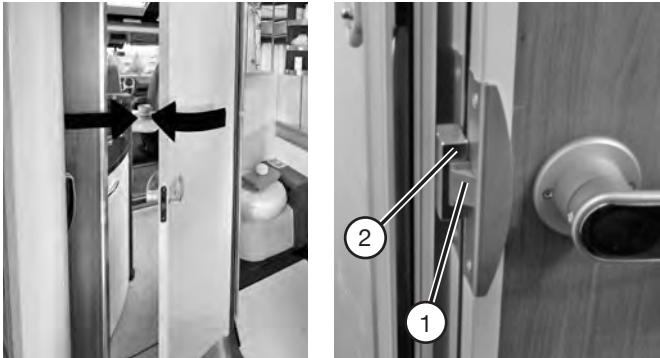
## Washroom with movable basin for showering (model-specific)

### Using the shower

- Pull the handle ① on the washbasin along the rail towards the Porta Potti.
- Then release the pushbutton of the retaining strap and fold out the partition towards the mirror



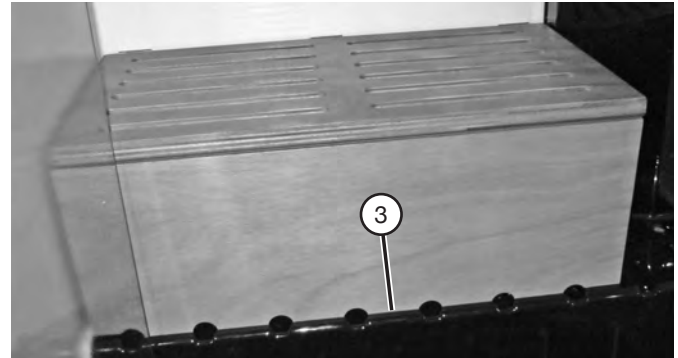
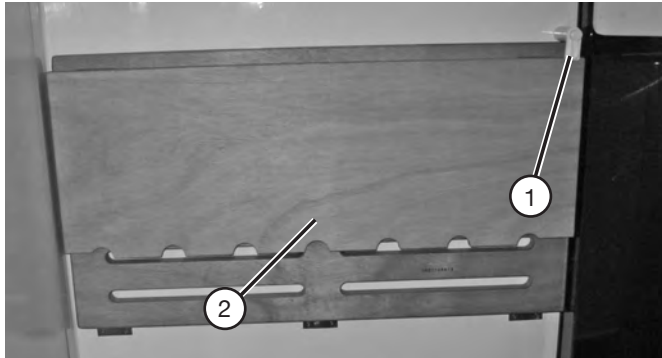
When driving, the shower partition must be fastened using the retaining strap and the washbasin must noticeably be locked into its original position.



### **Bathroom (model-specific)**

In Hobby's bathroom concept, the washroom can be joined together with the separate shower or changing room.

- Open the washroom door as far as possible so that the iron core ① of the locking mechanism attaches itself to the magnet ② on the opposite side.



### Folding seat in the shower (optional extra)

As an option, the bathroom can be fitted with a folding seat in the shower.

- Unlock ① the seat by turning it to a horizontal position.
- Fold the seat down and fit the lower surface ② into the groove ③ provided for this purpose.

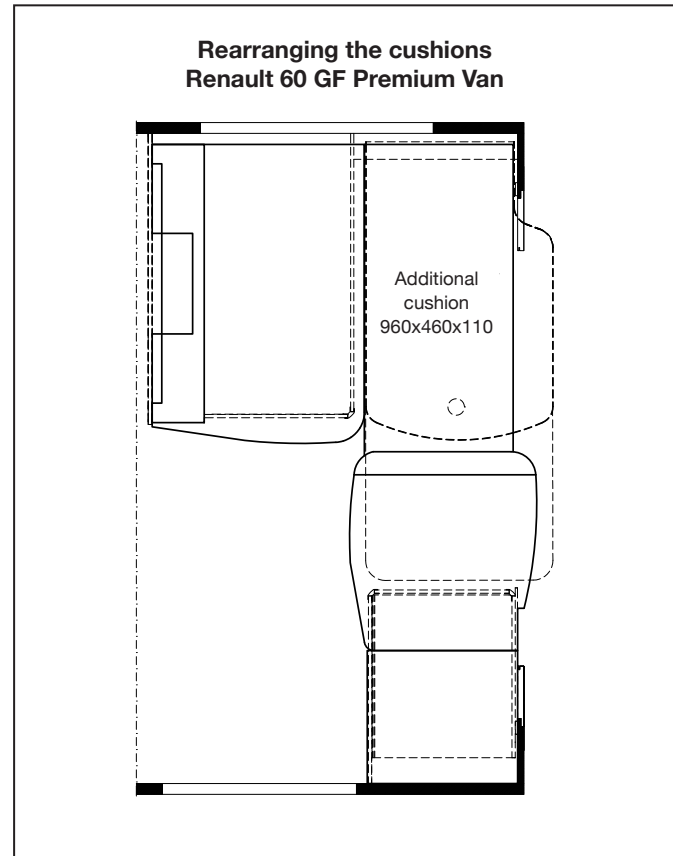


Before driving, the folding seat must be locked into its original position.

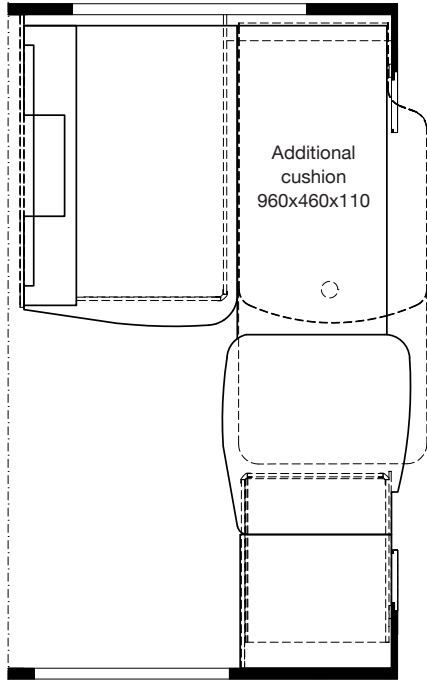
## 6.7 Cushion arrangements



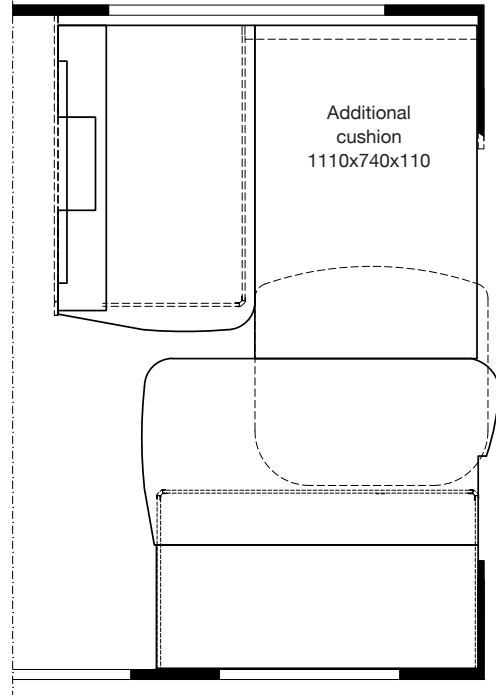
The 55 GF Van does not have a convertible seating arrangement. None of the motor homes with alcove beds can be converted, because there is not enough free space when the alcove bed has been lowered.



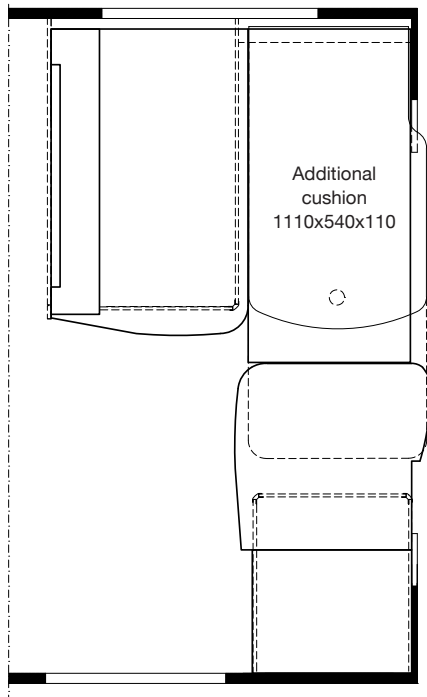
**Rearranging the cushions  
Renault 65 GE Premium Van**



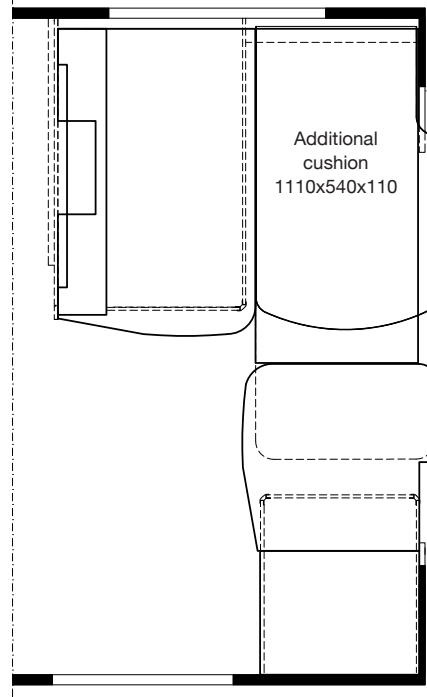
**Rearranging the cushions  
Fiat 65 FL Premium Drive**



**Rearranging the cushions  
Fiat 65 GF Premium Drive**

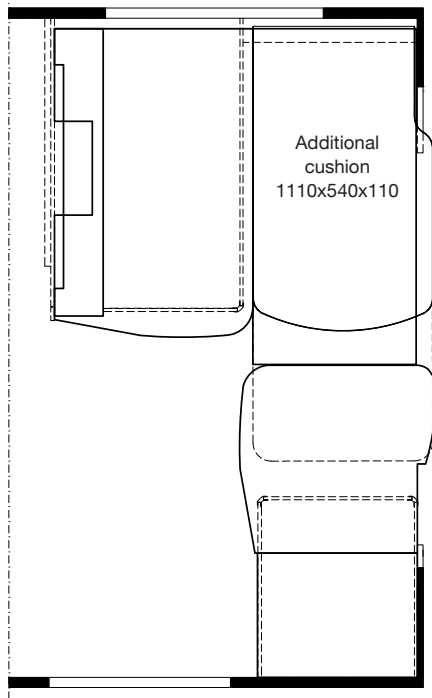


**Rearranging the cushions  
Fiat 70 GE Premium Drive**

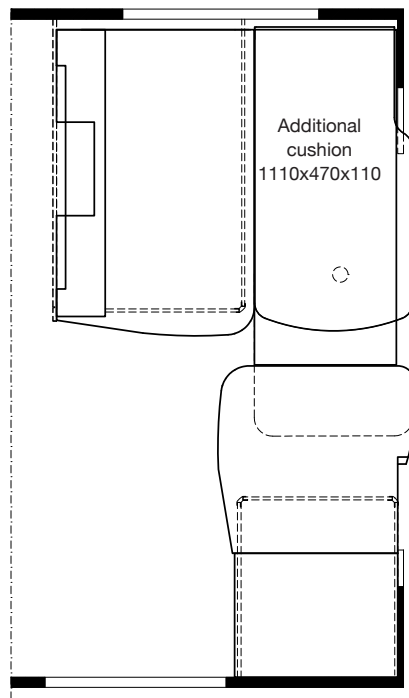




**Rearranging the cushions  
Fiat 70 GF Premium Drive**



**Rearranging the cushions  
Fiat 70 Q Premium Drive**





## 6.8 Windows

### Knockout windows with locking hooks

#### Opening

- Turn the latch to an upright position.
- Press the window outwards until you hear a click. The window will automatically remain in this position. The width of the opening is adjustable in several stages.

#### Closing

- Raise the window slightly so that the hook unlocks.
- Close the window.
- Press the knob of the bolts and turn them to a horizontal position.

### Combined sunshade and insect screen

Sunshades and insect screens are integrated in the window frame, and it is possible to combine them. The combined shade can be adjusted in several positions.

#### Adjusting the sunshade

- Push evenly up or down on the left and right outer metal rail of the sunshade.

#### Shifting the insect screen

- Push the sunshade down and use the latch of the insect screen to push it to the desired position.



### **Skylight (The acrylic glass frame is an optional extra.)**

The skylight cannot be opened. It is fitted with an integral dimming shade which can be drawn as required by pulling it.



### **6.9 Dimming system for driver's cabin (Optional Extra)**

The dimming shades may only be drawn when the vehicle is standing and the motor has been turned off. Before starting your drive, you must fold up the entire system and lock it.

Open the dimming system whenever you are not using your motor home, as otherwise it will be permanently damaged by the effects of heat and UV rays.

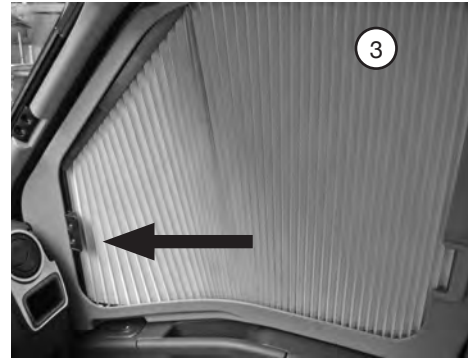


The dimming system may never be used as a sunshade or closed while driving..



### Front system ②

- Press the locks ① together to open the locking mechanism.
- Press the clasp together in the middle. The magnetic lock will automatically lock.



### Side system ③

- Pull the handle as far as it will go. The blinds will automatically be locked into place; this is fully adjustable.

## 6.10 Skylight

### Safety instructions



- Never open the skylight in strong winds/rain/hail, etc. or if the temperature outside is below -20°C!
- Remove snow, ice or excessive dirt before opening. Ensure there is sufficient room before opening the skylight under trees, in garages, etc.
- Do not use force to open the roof skylight when covered by ice or snow as this could break the hinges and opening mechanism.
- Do not stand on the skylight.
- Close and bolt the skylight before driving. Open the insect screen and pleated material (resting position).
- If the sunlight is very strong, pull the sunshade only 3/4 closed, otherwise there is a danger of heat build-up.



The vents for ventilation must always remain open! Never shut or cover up these vents!



Before driving, ensure that the skylight is securely bolted.



### Small roof bonnet Opening



Before opening the skylight, check that the outside area above the skylight is clear.

- There are three different positions for opening the skylight by turning the crank anti-clockwise. Press the locking button and open the skylight to the desired position by turning the crank before locking it into position. The maximum opening angle is 50°.

### Closing

- Release the crank from the locking position and close the skylight. The skylight is automatically locked when it has been fully closed.



## Large roof bonnet

### Opening

- Turn the crank to its user position. By turning the crank clockwise, you can now open the skylight to the desired position. When the maximum opening angle of 60° has been reached you will feel resistance.

### Closing

- Turn the crank anti-clockwise until the skylight is closed and you can feel resistance. The crank can be folded back into the crank niche when the skylight is closed. To ensure safe closure the crank should be folded back into the crank niche. Check the skylight is closed by pushing against the glass with your hand.

### Dimming shade

Pull the handle of the shade to any desired position or until the latch locks into the handle of the insect screen.

### Insect screen

Push the clasp of the insect screen against the clasp of the shade until the latch locks into the clasp.



### Swivelling seats

- Put the armrests up.
- Move the seat to the middle position.
- Release the lever to swivel the seat. The seat will be released from the locking position.
- Push the seat belt buckle down to avoid damaging it.
- Swivel the seat to the desired position.

## 6.11 Pivoting seats in the driver's cab



All of the motor homes have pivoting driver's and passenger's seats, which can be used to extend the number of seats available in the superstructure. To operate these pivoting seats, please refer to the operating instructions for the base vehicle.



- Before driving turn all swivelling seats in to face in the driving direction and lock them into place.
- Leave the seats locked to face in the driving direction while driving. Do not swivel them.
- When the vehicle is stationary: when swivelling the driver's seat make sure that the handbrake is not released by accident.



## 6.12 Construction of the seats

### Cushion fastenings

The seat and back cushions are held in place by an anti-slip mat.



Ensure that the seat cushions and backrests are fastened securely and correctly.



### Converting the L-shaped seating arrangement (Optional Extra)

To use the outer seat in models with an L-shaped seating arrangement, the arrangement must be converted before you drive.

- Remove the seat and back cushions.
- Fold back the cushion cover ① by 180° and place it on the crossbench.
- Open the locking bolt ② swing the supporting wall out by 90° and then shut the locking bolt ②.





- Guide the upper part of the seatbelt over your shoulder and diagonally across your chest.
- The lower part of the seatbelt fits across your hips.

#### Unbuckling the seatbelt

- Press the button on the lock of the seatbelt to unlock the tongue.

### 6.13 Seatbelts in the caravan

The seats in the seating arrangements that face oncoming traffic have been fitted with safety belts.



Please note the overview of the seating arrangements for your vehicle. Certain seats may not be used while driving!

#### Buckling the seatbelt

Do not twist the seatbelt.

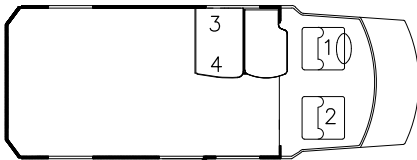
- Grasp the tongue and insert it in the lock of the seatbelt until you hear it snap shut.



- Fasten seat belts before driving and keep them fastened while driving.
- Do not damage or jam the seatbelts. Damaged seatbelts should be replaced by an authorised workshop.
- Do not alter the seatbelt fixings; the automatic retraction system or the buckles.
- Only use each seatbelt for one adult. Do not fasten objects and people using only one seatbelt.
- Seatbelts alone are not suitable for persons under 150 cm tall. In such cases use additional restraining equipment.
- Replace seatbelts after an accident.
- Do not twist the seatbelt; it should fit closely to your body.

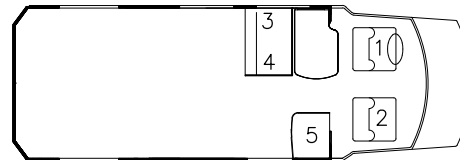
## 6.14 Overview of the seating arrangements

**Renault 55 GF Premium Van**



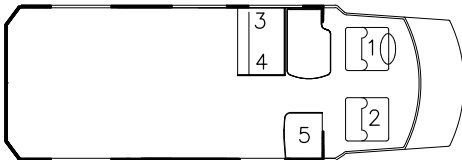
Seats 1 - 4: may be used while driving.

**Renault 60 HGF Premium Van**



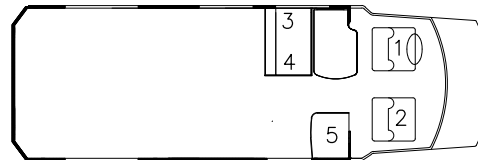
Seats 1 - 4: may be used while driving.  
Seats 5: must not be used while driving.

**Renault 60 GF Premium Van**



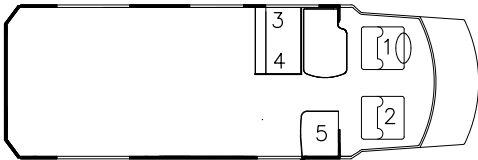
Seats 1 - 4: may be used while driving.  
Seats 5: must not be used while driving.

**Renault 65 GE Premium Van**



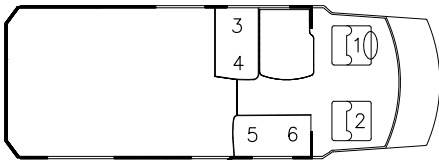
Seats 1 - 4: may be used while driving.  
Seats 5: must not be used while driving.

**Renault 65 HGE Premium Van**



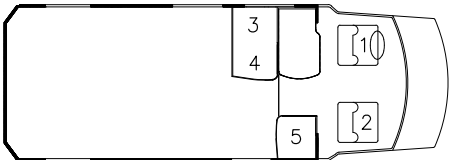
Seats 1 - 4: may be used while driving.  
Seats 5: must not be used while driving.

**Fiat 65 FL Premium Drive**



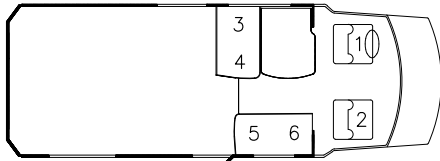
Seats 1 - 4: may be used while driving.  
Seats 5 - 6: must not be used while driving.

**Fiat 65 GF Premium Drive**



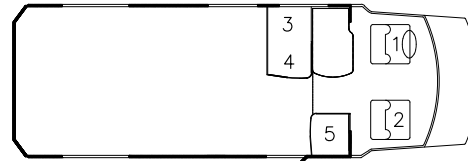
Seats 1 - 4: may be used while driving.  
Seats 5: must not be used while driving.

**Fiat 65 HFL Premium Drive**



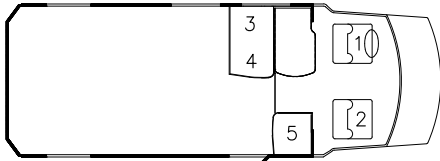
Seats 1 - 4: may be used while driving.  
 Seats 5 - 6: must not be used while driving.

**Fiat 70 GE Premium Drive**



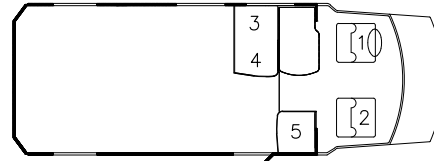
Seats 1 - 4: may be used while driving.  
 Seats 5: must not be used while driving.

**Fiat 65 HGF Premium Drive**



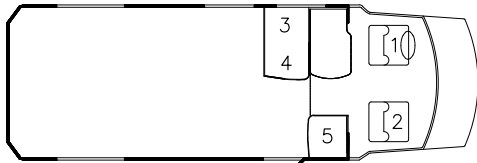
Seats 1 - 4: may be used while driving.  
 Seats 5: must not be used while driving.

**Fiat 70 GF Premium Drive**



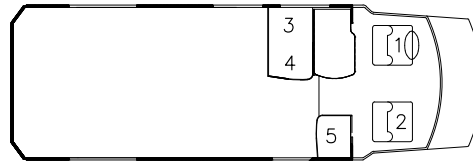
Seats 1 - 4: may be used while driving.  
 Seats 5: must not be used while driving.

### Fiat 70 HGE Premium Drive



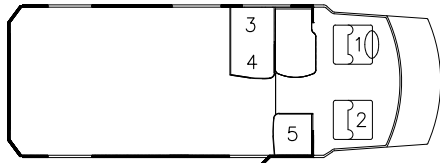
- Seats 1 - 4: may be used while driving
- Seat 4: may be used while driving if the permissible maximum weight = 3650kg / 4250kg
- Seat 5: must not be used while driving.

### Fiat 70 HQ Premium Drive



- Seats 1 - 4: may be used while driving
- Seat 4: may be used while driving if the permissible maximum weight = 3650kg / 4250kg
- Seat 5: must not be used while driving.

### Fiat 70 HGF Premium Drive



- Seats 1 - 4: may be used while driving.
- Seats 5: must not be used while driving.

### Fiat 70 Q Premium Drive

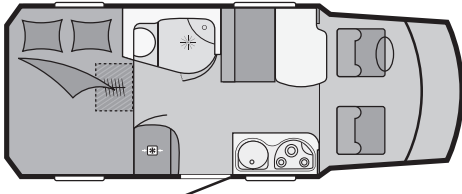


- Seats 1 - 4: may be used while driving.
- Seats 5: must not be used while driving.



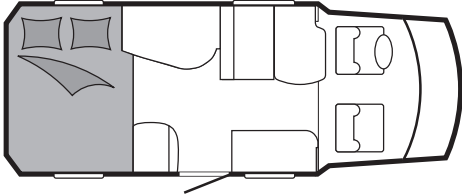
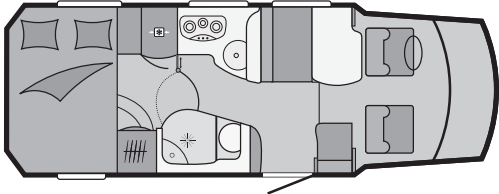
### 6.15 Overview of day and night positions

Renault 55 GF Premium Van

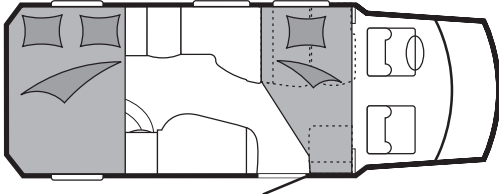


Day position

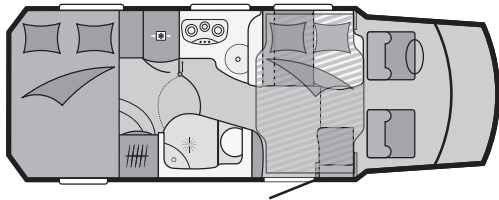
Renault 60 GF Premium Van



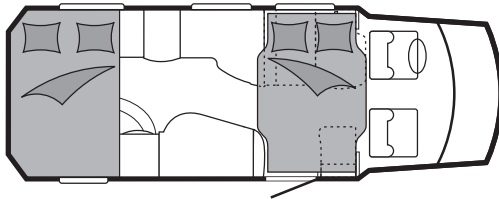
Night position



### Renault 60 HGF Premium Van

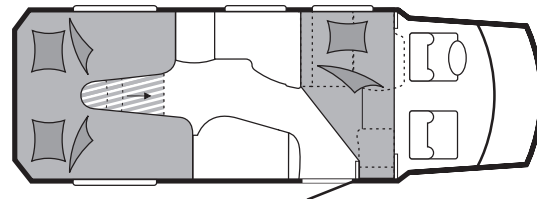
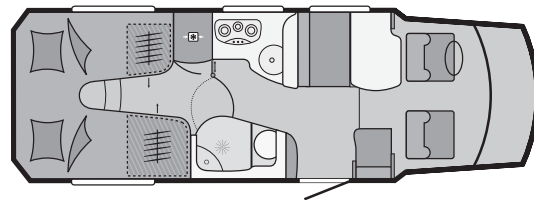


Day position



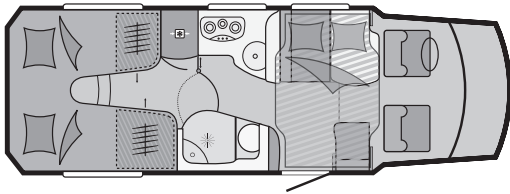
Night position

### Renault 65 GE Premium Van

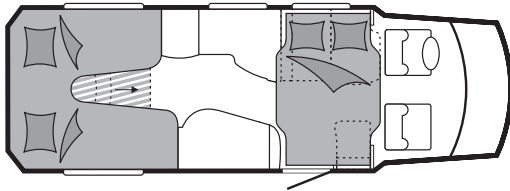




**Renault 65 HGE Premium Van**

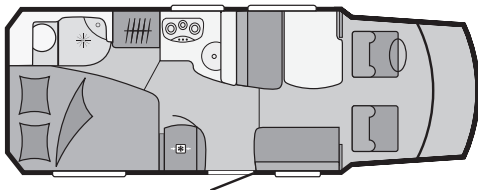


Day position



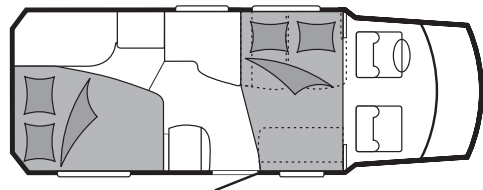
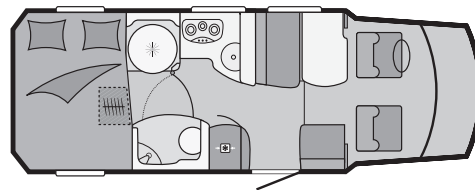
Night position

### Fiat 65 FL Premium Drive

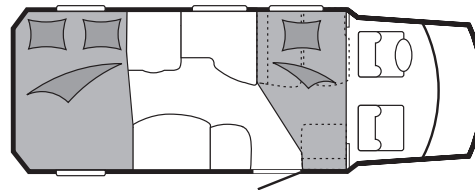


Day position

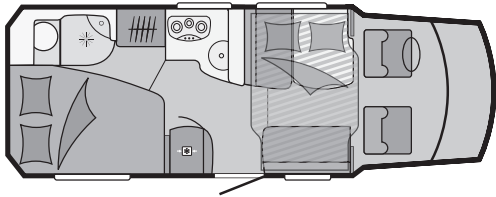
### Fiat 65 GF Premium Drive



Night position

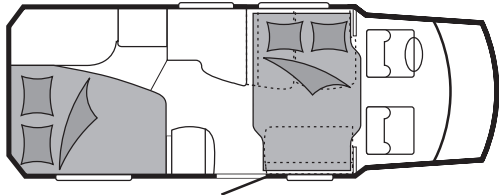
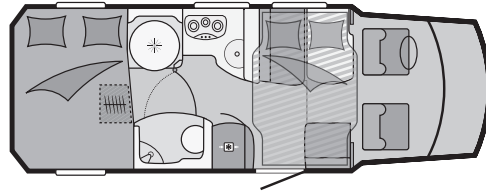


Fiat 65 HFL Premium Drive

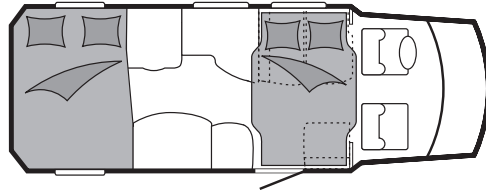


Day position

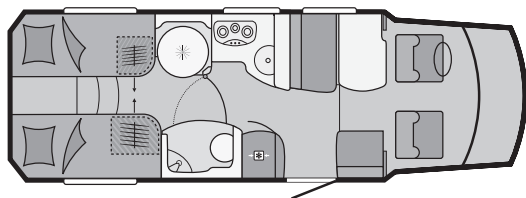
Fiat 65 HGF Premium Drive



Night position

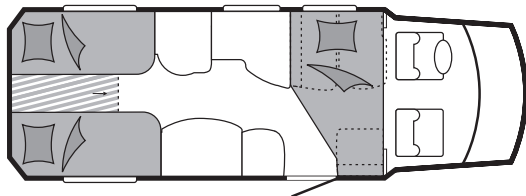
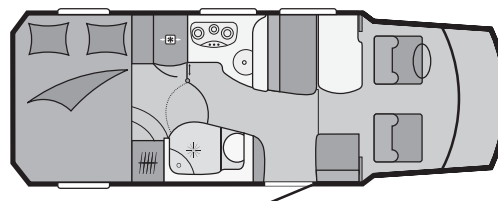


### Fiat 70 GE Premium Drive

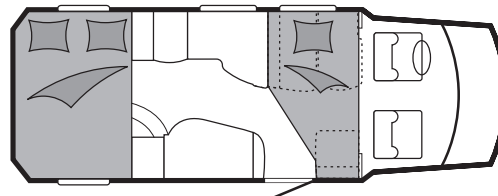


Day position

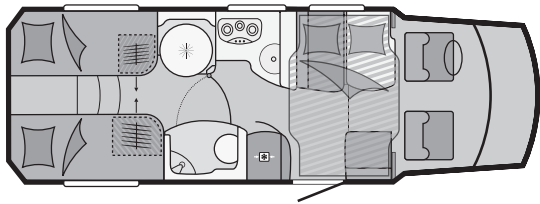
### Fiat 70 GF Premium Drive



Night position

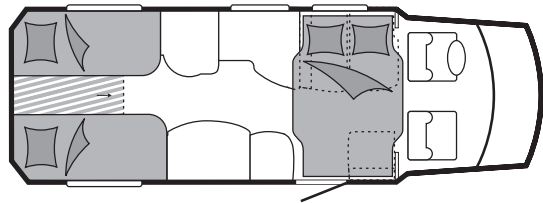
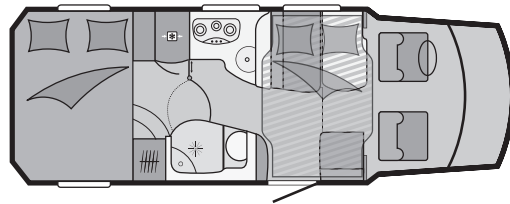


Fiat 70 HGE Premium Drive

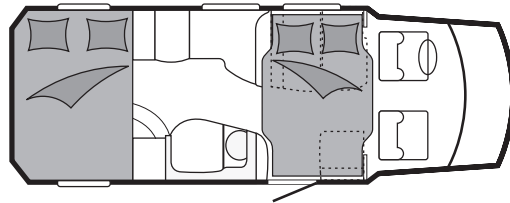


Day position

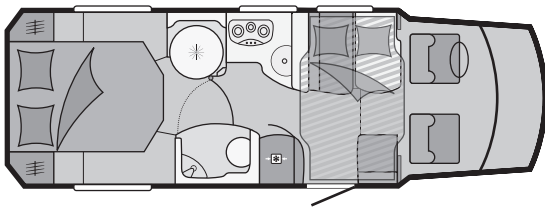
Fiat 70 HGF Premium Drive



Night position

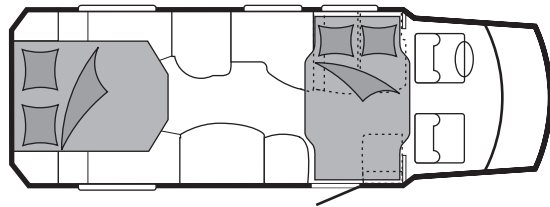
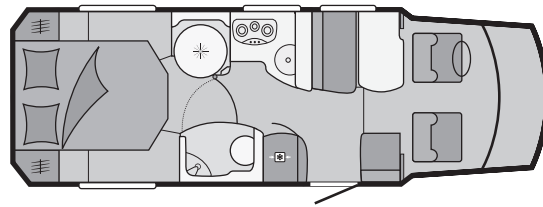


### Fiat 70 HQ Premium Drive

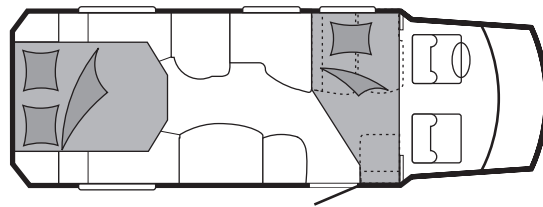


Day position

### Fiat 70 Q Premium Drive



Night position



## Chapter 7: Electrical Installations

### 7.1 Safety instructions

The installation of electrical devices in HOBBY's motor homes has been carried out in accordance with the valid regulations



- Do not remove the signs on electrical components giving safety instructions or danger warnings.
- Do not use the installation compartments for the caravan battery, on-board control panel, battery charger and 230 V connector box as additional storage room.
- Smoking and naked flame are forbidden when checking electrical equipment.
- Only authorised and experienced workshops may carry out electrical repairs.
- Inexpert handling of the vehicle's electrical system may endanger your own life as well as that of others.
- To connect to an external 230 V mains connection, use only a weather-proof, 3-wire extension cord with a CEE plug and connector.

### 7.2 Elements of the electrical system

#### Advice and instructions

##### Important

- Any changes to the electrical installations may only be carried out by a professional electrician.
- Disconnect the battery and switch off the 230V mains before carrying out any maintenance work.

##### Batteries

- Please observe the battery manufacturer's operating instructions.
- The acid in the battery is poisonous and corrosive. Avoid contact with eyes and skin.
- The completely discharged battery must be recharged for at least 10 hours. The battery may be damaged if it has been discharged for more than 8 weeks.
- Avoid total discharge since this significantly reduces the performance capacity and service life of the batteries.
- Check the level of the battery fluid regularly (acid batteries); gel batteries require no maintenance, but must be continuously recharged.
- Check that the clamps have been properly fitted and, if necessary, remove any layers of oxide.

- Unclamp the minus pole if the ancillary battery is not being used for a longer period of time (more than 1-2 months). Even if the main switch of the battery has been interrupted, the battery may be recharged by the charger. (Conservation charging)
- Should the consumer battery be removed, isolate the plus pole (to prevent short circuits when turning on the motor).

### **Battery charger**

- The charger's capacity is 360 W.
- The charger functions in accordance with IU0U1 charging technology.
- In the case of misuse the guarantee and manufacturer's liability will no longer apply.
- Do not plug up the ventilation and ensure that you have adequate ventilation.

### **Tank probes**

The probe with rods measures the contents of the fresh and waste water tanks.

- To avoid incrustations, particularly in the waste water tank, never let the water in the tanks stand for too long.
- Flush the tanks regularly.

### **230V main switch**

The 230V main switch supplies the protects the 230V devices.

- To switch off the power supply in the entire system, set the 230 V-main switch to "0"(OFF).

### **Fuses**

- Only replace defective fuses after the cause of the defect has been remedied by a professional electrician.
- The new fuse must have the same amperage as the old one.





## Controlpanel



### Functions of the main switch

- After initially connecting the motor home to the 230 V mains, you must press either the main switch or any other control key in order to activate all of the 12 V electrical devices and the 230 V electrical devices that are switched by the system (e.g. therme, floor heating).
- Once the system is in operation, press the main switch briefly to turn all of the lights off. All of the 12 V steady electrical devices (e.g. water supply, refrigerator control, heat blower) remain activated. The devices that were previously switched on are stored in the system; pressing on the main switch reac-



If the vehicle's motor is running, the refrigerator will operate automatically on 12V, i.e. it is not necessary to press the main switch. In this case, the selector switch for the refrigerator must be set to 12V operation. All other 12V electrical devices will only operate on the battery of the vehicle if the main switch has been activated.



### Illuminated Wall Cabinets



### and Ceiling Lamp

- Briefly press the key to switch each lamp on and off. Press longer on the key to regulate how brightly you want the

tivates them. This also resets the degree to which those lights were dimmed that can be regulated.

- Pressing the main switch for at least four seconds while the system is switched on will turn off not only the presently activated devices, but also the entire 12 V system.
- If there should be a power failure, the system will remember whether the main switch was on or off. As soon as the power is back on, the main switch will automatically switch itself back on. Electrical devices that continuously use current, such as the heating, will then begin to operate again.

lights to shine. The brightness you set will be saved; when the lights are switched on again, the brightness you originally set will also be switched on again. If the system's power supply is interrupted, the wall light will shine full strength the first time you switch it on.



### Key Memory

- This key is used to save and recall the state of individual lights. Press briefly on this key to recall the last saved state of all switchable 12 V lights. Press longer on this key to save the lighting state of a lamp. This key is not used to save the state of the 230 V electrical devices (therme and floor heating).



### Entrance light

- Press this key to switch the entrance light on and off. It is not possible to switch this light on when the motor is running. The light will turn off automatically when the motor is switched on.



The entrance light must be switched off when the motor home is on the road.



### Kitchen light

- Briefly press the key to switch the kitchen lamp on and off.



### Lighting atmosphere 1, 2 and 3

- **1:** Switches light strips on wall cabinets on and off.
- **2:** Switches reading lamp in seating arrangement and indirect lighting in the rear on and off.
- **3:** Switches showcase and floor lighting on and off; the latter can also be dimmed.



### Electric power supply 1 and 2

- These are two additional possibilities for switching 230V devices on and off (e.g. floor heating, optional extra).



### Charging status of the battery

- Briefly press the key to shift to setting the menu and displaying the battery. An intelligent battery sensor is part of the vehicle's standard equipment. Therefore, the menu enables you not only to set the type and capacity of the battery, but also to see the recharging time, charging current, charging voltage and remaining time until the battery is discharged.



### Radio switch

- Briefly press the key to switch the radio on and off.



### Filling level indicator

- Briefly press the key to display the graph that shows you the level of the fresh and waste water tanks.



### Back

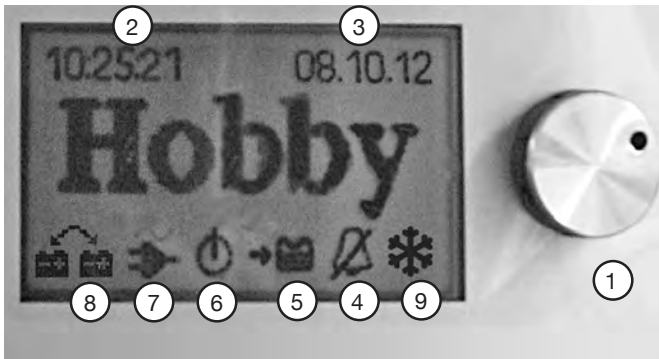
- Briefly press the key to return to the previous menu item or to the main menu.



All of the vehicles are equipped with a program for measuring illumination. This program only runs if the power is connected; if previously activated, it is saved after a reset. All of the lights will be switched on. If a key is now pressed, the corresponding light will be switched on. After approx. 1 minute, all of the other lights will also be switched on provided no other key is pressed.

**To switch on:** Press power supply 1 + 2 and lighting atmosphere 1 somewhat longer.

**To switch off:** Press power supply 1 + 2 and entrance light somewhat longer.



## LCD display

### Basic menu

The basic menu appears if you have not pressed a navigation key during the past 30 seconds (approximately). This menu is not illuminated. The time, date and alarm clock function are set in this menu.

### Main display

#### ① Rotary switch

Turn the switch to select a menu. Press it to shift to a submenu, in which you can enter changes.

#### ② Digital clock

The current time is displayed in this field.

#### ③ Date display

The current date is displayed in this field.

#### ④ Alarm clock

This icon is used to activate the alarm clock. The example shows the alarm clock when it has been deactivated. When it is activated, there is no line through the icon.

#### ⑤ Charging status of the ancillary battery

If the arrow points towards the battery, it will be charged. If the arrow points away from the battery, it will be discharged.

#### ⑥ Main switch

The icon for the main switch always appears when the system's 12V main switch has been switched on.

#### ⑦ Mains connection

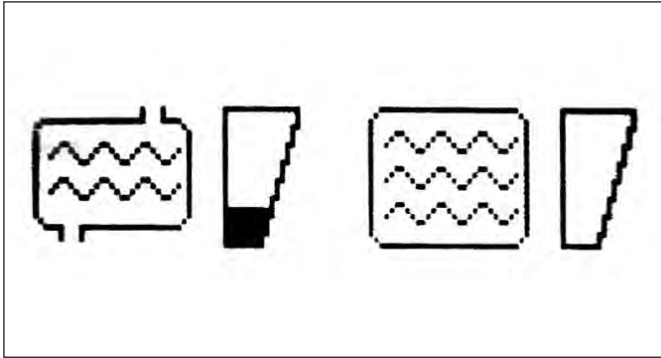
This icon appears if the motor home is connected to the 230V mains.

#### ⑧ Generator/Motor is running

An icon will appear here if the motor home's motor has been started.

#### ⑨ Air conditioning

The air conditioning icon only appears when the motor home has been fitted with an air conditioning system that is CI bus compatible and it is in operation. The basic functions of the air conditioning system can be controlled in a submenu using the control dial and keys. Various operating states can be displayed.



#### Level of the tank

- After turning once to the right or left, the menu for displaying the level of the fresh and waste water tanks appears.

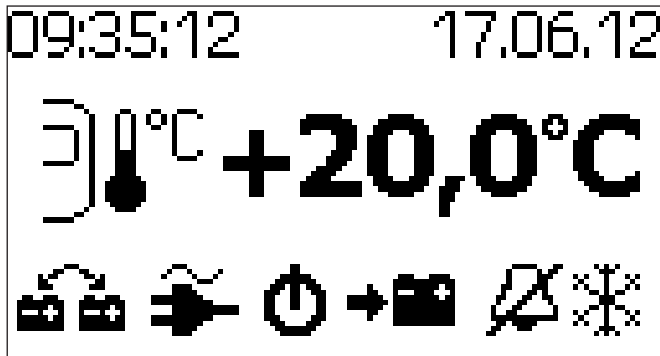


Align the vehicle horizontally to obtain a meaningful result from the filling level indicator.



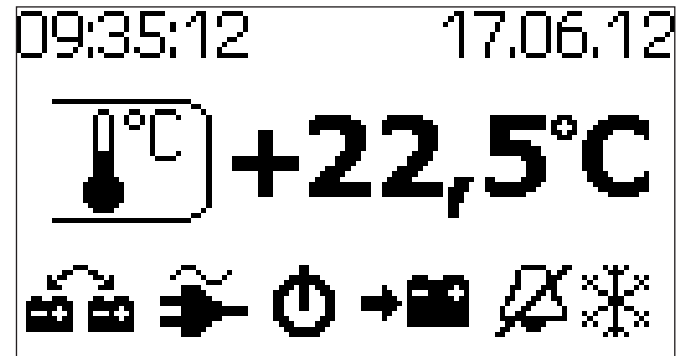
#### Temperature 12V

- If your vehicle has a 12V connection, the temperature will be displayed. Inside temperature (above) and outside temperature (below).
- The display is shown in increments of 0.5° C.



### Outside temperature

- After once again turning to the right, the menu for displaying the outside temperature appears. The outside temperature sensor is located underneath the vehicle near the entrance step.

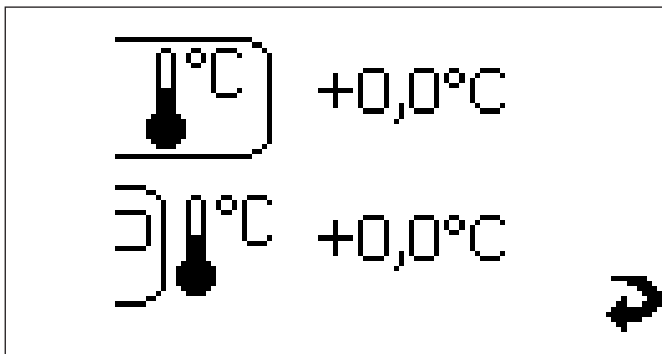


### Inside temperature

- After once again turning to the right, the menu for displaying the inside temperature appears.
- The display is shown in increments of 0.5° C.



The sensor for the inside temperature is located on the reverse of the circuit board of the LCD panel. Possible heat build-up here, e.g. if the circuit board heats up, may cause an incorrect temperature to be displayed.

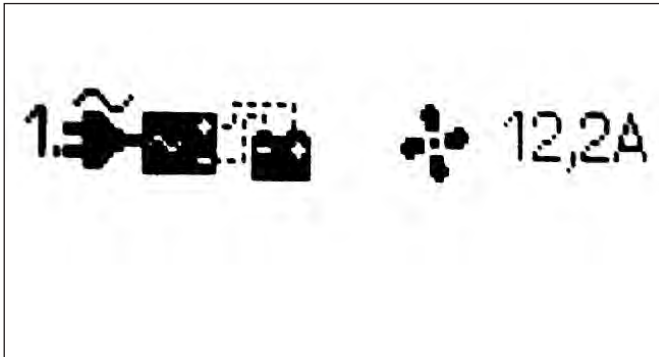


- You can now increase or decrease the temperature shown by up to  $+7^{\circ}\text{C}$  in steps of  $1^{\circ}\text{C}$ . When the desired value has been set, quit the menu item by pressing briefly on the selector switch.
- Quit the calibration menu by using the selector switch to select the Return icon. The changed value is now shown on the temperature display.

### Calibrating the temperature

It is possible to calibrate the indoor and outdoor temperatures shown, as temperature effects on the sensors may lead to a deviation between the temperature displayed and the actual temperature.

- To calibrate the displayed temperatures, please switch to the temperature display. It is irrelevant whether the indoor or the outdoor temperature is displayed.
- Press the rotary/selector switch for several seconds. The system will now switch automatically to calibration mode.
- Switch to the desired area (indoor or outdoor) by turning the selector switch. Press briefly on the switch to select the area.



### Battery charging

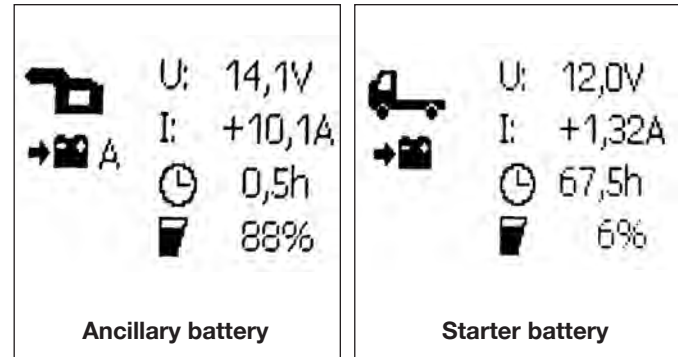
After the type and capacity of the battery have been set and it has been calibrated, the battery sensor permanently monitors the status of the batteries (starter/ancillary battery).

The intelligent battery sensor is connected directly to the negative terminal on the ancillary battery.

### Battery charging function

230V voltage applied and charger has been activated for sensor control.

The fan can be switched on and off in this menu; the illustration shows the fan when it is switched on.



These menus show

- the charging voltage (U)
- the charging current (I)
- the remaining time until discharge, dependent on the capacity and the actual flow (current)
- as well as the charging status of the batteries in %.

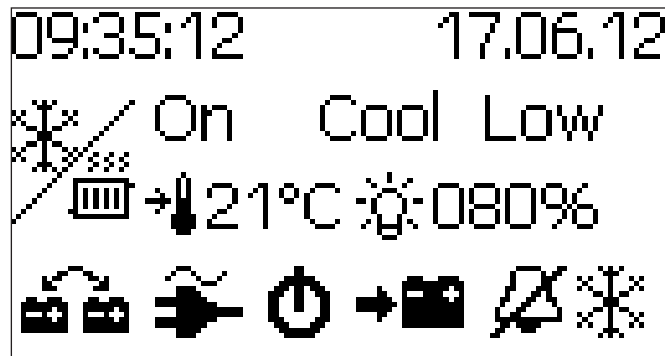




### Setting the battery type

The type and capacity of the battery have been set by the manufacturer. If the type of battery is changed, these settings must be adjusted accordingly.

To reach this part of the menu, go to the "Loading the Battery" menu and press the button for approx. 2 seconds.



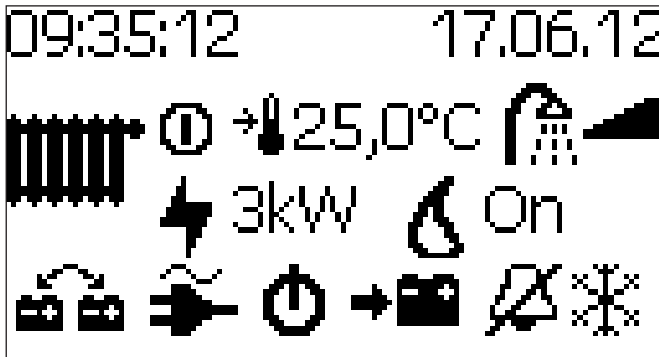
### Air conditioning (optional extra)


The following functions for the air-conditioning system can be set on the control unit:

- On/Off
- Cool Mode: cooling and ventilation  
Cool Low / Cool / Cool High
- Fan Mode: ventilation only  
Fan Low / Fan High



The aforementioned functions are only available for air conditioning systems that are CI bus compatible.



- To quit the menu, switch to the Return icon  and confirm your settings by pressing on the rotary knob. Only now will the changes be implemented by the heating system; after a brief delay, they will appear on the display.

#### Alde hot water heating system (radiator icon)

The optional Alde hot-water heating system can be controlled using its own control unit or the LCD control unit.

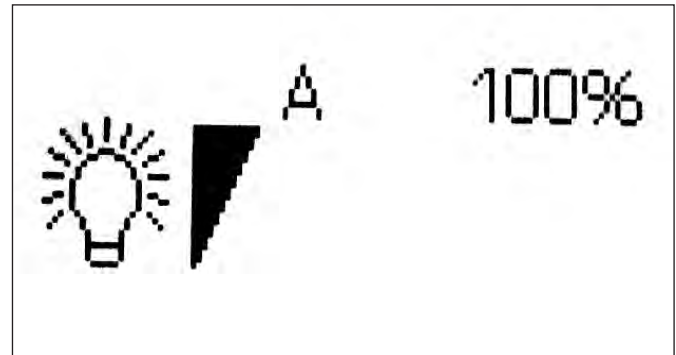
#### Settings:

- Temperature: in steps of 0.5° from +5°C to +30°C
- Shower icon: short-term increase in the amount of hot water
- Electric heating (lightning flash): performance can be set to Off, 1kW, 2kW or 3kW
- Flame icon: heating with gas On / Off



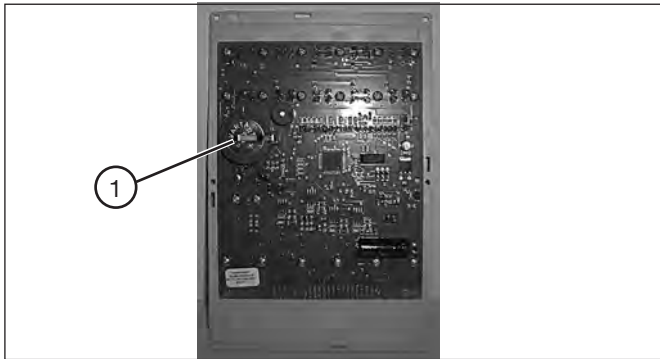
#### Setting the time, alarm clock and date

- After pressing the menu button for a longer period of time (approx. 2 seconds) the menu for setting the current time, date, wake-up time and activating or deactivating the alarm clock appears.
- Within the menu's you move left or right by turning to the various setting value.



#### Plinth lighting

Press the lighting atmosphere 3 key to switch to the submenu for regulating the plinth lighting.

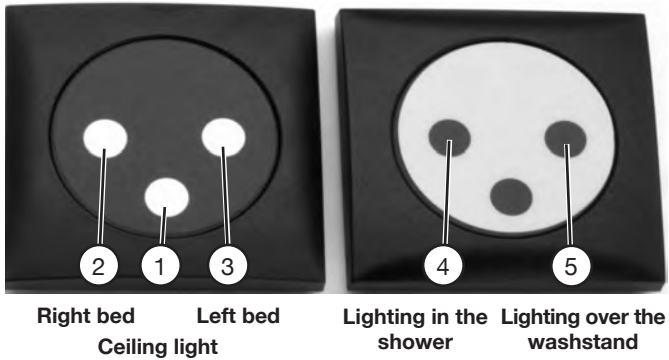


When replacing the button cell, please ensure that plus and minus are in the right direction. Incorrect polarity may cause the display to become defect.

### General information regarding the LCD display

The time and date are buffered by a 3V 210 mAh, CR2032 type button cell. If, therefore, the time should be incorrect or the clock should stop working, this button cell must be replaced.

It is mounted on the reverse of the circuit board ① of the LCD display. To replace this button cell, the LCD display must be removed from the furniture front by carefully clipping the chrome-plated frame out of its holder. You will then see the screws that fasten the plastic part to the furniture. Loosen these screws to detach the display.



### Remote control, washroom / bed

- Press briefly on the key to switch the ceiling light ①, the light over the right-hand bed ② and the light over the left-hand bed ③ on and off. Press longer on the key to regulate how brightly you want these lights to shine. The brightness you set will be saved; when the lights are switched on again, the brightness you originally set will also be switched on again.
- Press briefly on the key to switch the lighting in the shower ④ and over the washstand ⑤ on and off.



### Entrance step

#### Entrance step key with ceiling light

This key is located on the left-hand side in the entrance area. It controls the electric entrance step and switches the ceiling light on and off. These functions work even if the LCD panel has not been activated.



Lower step

Wall light

Main switch

Raise step

Ceiling light

Entrance light



## Remote control (special accessory)

- The hand-held transmitter is used to switch six functions on the control panel via remote control.



To conserve the capacity of the battery being used, press the keys on the hand-held transmitter only until the desired function has been carried out.



For further instructions, please refer to the manufacturer's separate operating instructions.

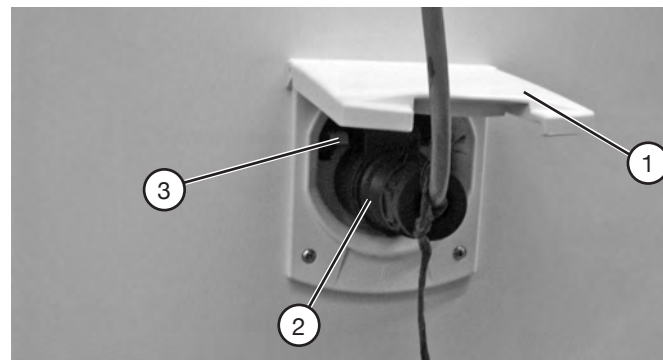
## 7.3 Electric power supply

In all of the vehicles (with the exception of the 55 GF Van and 65 FL Drive) the central electrical system is installed under the refrigerator.

Electricity for the motor home can be obtained from the following connections:

- 230V mains connection 50 Hz
- via the ancillary battery

Everything that uses 12 V, such as lighting, water supply, etc., is available.

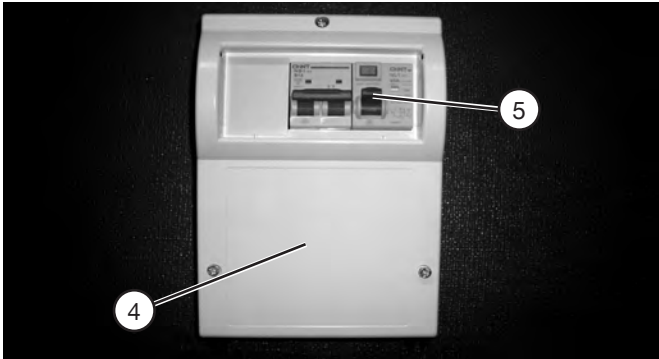


## Supply via mains connection

The motor home receives its electric power supply via the 230 V CEE feeder plug on the side wall of the vehicle.

## To set up an electric connection

- Switch off the automatic circuit breaker (4) by pressing the rocker button down (5).
- Take hold of the bottom of the cover flap of the external socket (1) and pull it up.
- Completely unwind the connector cable, attach the plug (2) and click it into place.
- Switch the automatic circuit breaker (4) back on.



### To disconnect the electric connection

- Switch off the automatic circuit breaker ④ by pressing the rocker button down ⑤.
- Press the lever ③ in the external socket down.
- Remove the CEE plug ②.
- Press the cover flap ① down until it clicks into place.



Only plugs and cords that comply with CEE standards may be used.

The 230V system is protected by a two-pole 13 A automatic circuit breaker ④, which is located underneath the refrigerator. (Exceptions to this include special installations, such as hot-water heating, etc.. In this case, an additional two-pole 16 A circuit breaker has been installed.) If there are two automatic circuit breakers, both must be switched on.



There are 11 free slots on the output of the circuit breaker.

### Rules for the mains connection

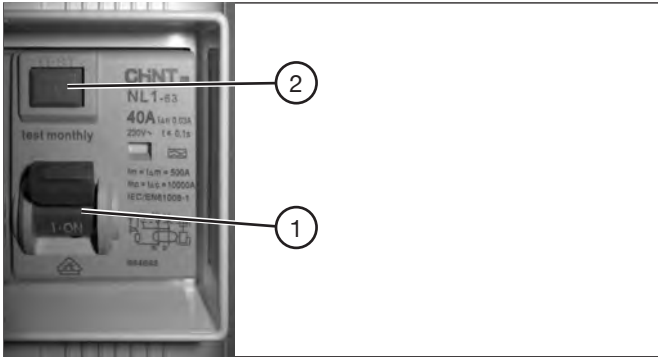
- Use only a 3 x 2.5 mm<sup>2</sup> cable with a maximum length of 25 m, a CEE plug and connector to connect the motor home to an external 230 V mains.
- After the mains connection has been plugged in, both the modular and the vehicle battery will automatically be charged by the battery charger in the motor home (even if the Control Panel has not been switched on).



When obtaining electricity via a cable drum, this **must** be completely unwound, as otherwise induction may cause the cable to heat up, which could lead to burning. (Provided there is no protection against overheating)

- The 230 V mains connection in the motor home has been designed for a total power consumption of 3000 W. If additional devices requiring electricity are connected, such as a water heater, etc., you must ensure that this electric power value is not exceeded, taking other electrical equipment in use, such as the refrigerator, therme, etc., into account.





After putting the electric system into operation, the function of the residual current device must be checked. After voltage has been applied to the switch ① and it is on (set to I-ON) it must set off when you press the test button ② .

This check should be carried out at least once a month to ensure that the residual current device functions perfectly in case there should be a fault in the current.

Devices that set off during operation show that there is a defect; they must be checked and/or repaired by an electrical engineering specialist.

## Residual current device

The standard version of your vehicle is equipped with a residual current device that will interrupt the electric circuit in case of a possible residual current.



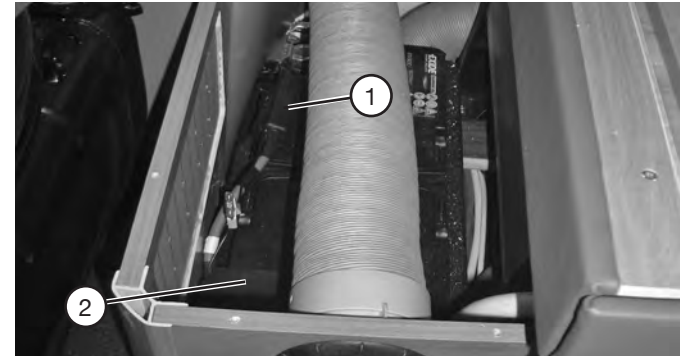
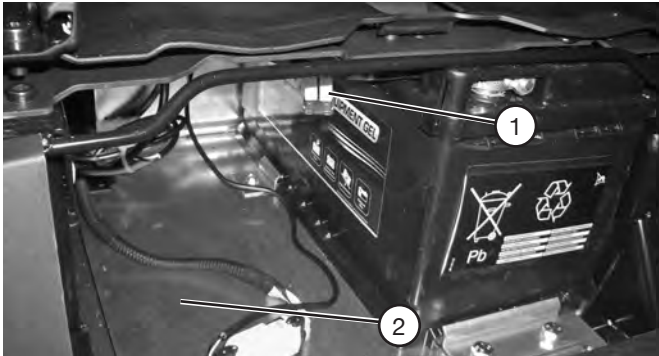
Repairs must not be carried out on the residual current device.



A residual current device does not guarantee any protection against the danger from an electric shock. It does not protect against possible electrical accidents.



The tripping time for the residual current device (RCD) with a residual current of 30 mA is less than 0.1 seconds.



## Operation via ancillary battery

### Position of the 12V 80 AH GEL ancillary battery in the Fiat/Drive

The ancillary battery is mounted in the front passenger console. The foot of the battery is attached to a base plate. The passenger seat including the rotating assembly must be dismantled in order to subsequently fit or change the batteries.

- ① 10A fuse for battery sensor.
- ② The remaining space next to the ancillary battery has been planned for the optional extra, the GEL booster battery 80 AH.

### Position of the 12V 80 AH GEL ancillary battery in the Renault/Van

The ancillary battery is located in front of the single seat at the front right. It is also attached by the foot to a base plate. To remove it, the hot-air pipe and the wood panelling must first be removed.

- ① Blade fuse 50A with fuse holder, positive cable of ancillary battery.
- ② 10A fuse for battery sensor.



- Only accumulator batteries with bound electrolytes (gel batteries) may be installed in those positions specified by the manufacturer.
- The installed gel battery may not be opened.
- When changing ancillary batteries, use only batteries of the same make and capacity.
- All of the electrical devices must be switched off before you disconnect or connect the ancillary battery.
- Before replacing fuses you must first de-energise the charger.
- Before replacing fuses you must first de-energise the charge controller.
- Before replacing a blown fuse you must first fix whatever caused the fuse to blow.
- Fuses may only be replaced by fuses with the same fuse protection value.
- Airing the charge controller insufficiently will cause a reduction of the charge current.
- The surface of the charger casing may become hot when the device is in operation.



### Position of the battery circuit breaker

In the Premium Van (Renault), the battery circuit breaker is located in the B-pillar in the passenger door.

A circuit breaker has been installed to protect the modular battery from being exhaustively discharged when the motor home is not being used. When the switch is opened, the modular battery is completely disconnected from the 12 V mains.



The battery circuit breaker must be on when using the vehicle home and whilst driving. When the circuit breaker is open, the electrical input stage will **not** engage automatically.



In the Premium Drive (Fiat), the battery circuit breaker is located underneath the handbrake by the driver's seat.

## Operating and charging the ancillary battery

If the motor home is not connected to the 230V mains supply, the ancillary battery will supply the electrical system with 12V DC voltage. Since the battery only has a limited capacity, the electrical devices should not be operated for a longer period of time without charging the battery or connecting the camper to the 230 V mains connection.

The ancillary battery can be charged from the following power sources:

- the generator when the motor is running
- the CA 360 charger
- the 350 VA switching power supply

Items 2 and 3 can only be carried out using a 230V power feed.

The source of input with the highest input voltage supplies the charge current for the connected battery.

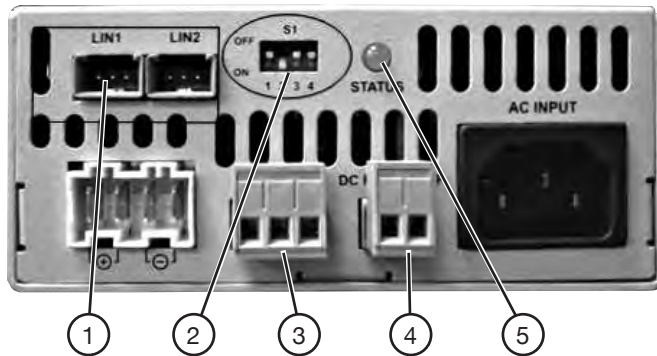


- Always charge the ancillary battery for at least 10 hours before each journey, directly after each journey and before you take the motor home temporarily out of service.
- Use every opportunity during your journey to charge the battery.
- The battery loses its capacity after having been used for a while and at low temperatures.
- An acoustic warning signal will be given off if the remaining time during discharge operation is less than 1 hour.
- If the battery voltage should be less than 10.0 V, all devices will automatically be switched off.
- A warning will go off if the battery ages to a value less than 50% of its nominal capacity.
- The battery is only charged if it has a minimum voltage of 8 V.
- If the vehicle is not in use for a longer period of time, the battery should be disconnected after it has been optimally charged by switching the battery circuit breaker off.
- For further information, please refer to the separate operating instructions for the charge controller.



### Charger CA-360, 25 A power charging module

The charger supplies the batteries with electric power when there is bus-powered mains operation. As they heat up, the charger reduces its power output to ensure that there is no chance of overheating.



- ① Socket; the middle pin is the sensor.
- ② PCB switches. The switches must all be in the top position, i.e. all set to “off”.
- ③ Changeover contact, for free disposal.
- ④ Contact bridge, fan on/off.
- ⑤ LED blinks to show current charging mode.

## Operation when the motor is running

As soon as the motor is running, a relay connects the starter battery and the caravan battery in parallel. Therefore, the dynamo charges both batteries. If the D+ signal no longer sits close to the dynamo, the two batteries will be separated from each other again. In this way, the starter battery cannot be discharged by equipment in the motor home.

The 12 V supply for the refrigerator only functions when you are driving. If the motor has stopped, the 12 V operation of the refrigerator is automatically turned off again.



To charge a discharged caravan battery optimally while driving, disconnect the 12 V operation of the refrigerator and turn off as much equipment as possible that uses 12 V.

### Checklist

- Turn off the motor.
- Switch on the 12 V master switch.
- Turn off all equipment that uses 12 V.
- Start the motor.

The voltage of the caravan battery must rise if

- the engine speed is above the idling speed,
- the vehicle's battery is not completely discharged.

The control panel shows whether or not the generator has been charged. **If this is not the case, please check the following:**

- Is the 50A fuse in the supply line to the ancillary battery near the motor battery functioning properly?
- Is the fuse distribution panel displaying the “Motor running” signal?



## 7.4 Electrical system

As soon as there is a mains connection, the electrical system will switch from battery operation to mains operation.



The switching power supply (350 VA) transforms the external mains voltage for the 12V electrical devices.

All of the lamps in the motor home use 12V LED lights.

Only large electrical devices such as the therme, floor heating, air conditioner, etc., use 230V.

- ① 5x melting fuses 15 A; can be accessed by removing the plastic covering.
- ② The spare fuses are located here.





|     |   |
|-----|---|
| 20  | 20 A refrigerator                           |
| 7.5 | 7.5 A steady plus S13, KS lighting, heating |
| 15  | 15 A D+ switched, steady plus S15           |
| 7.5 | 7.5 A sidelight                             |
| 7.5 | 7.5 A radio                                 |
| 15  | 15 A tank heating                           |
| 25  | 25 A entrance step                          |

## Assignment of fuses, Input module

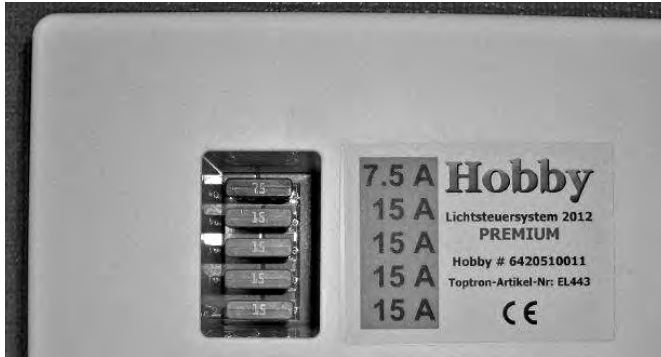
The fuses for the individual internal electric circuits are located in the input module.



In some models, there may be slight deviations in this assignment.



Only replace defect fuses if you know what caused the fuse to blow and have fixed this.



## Light Control System

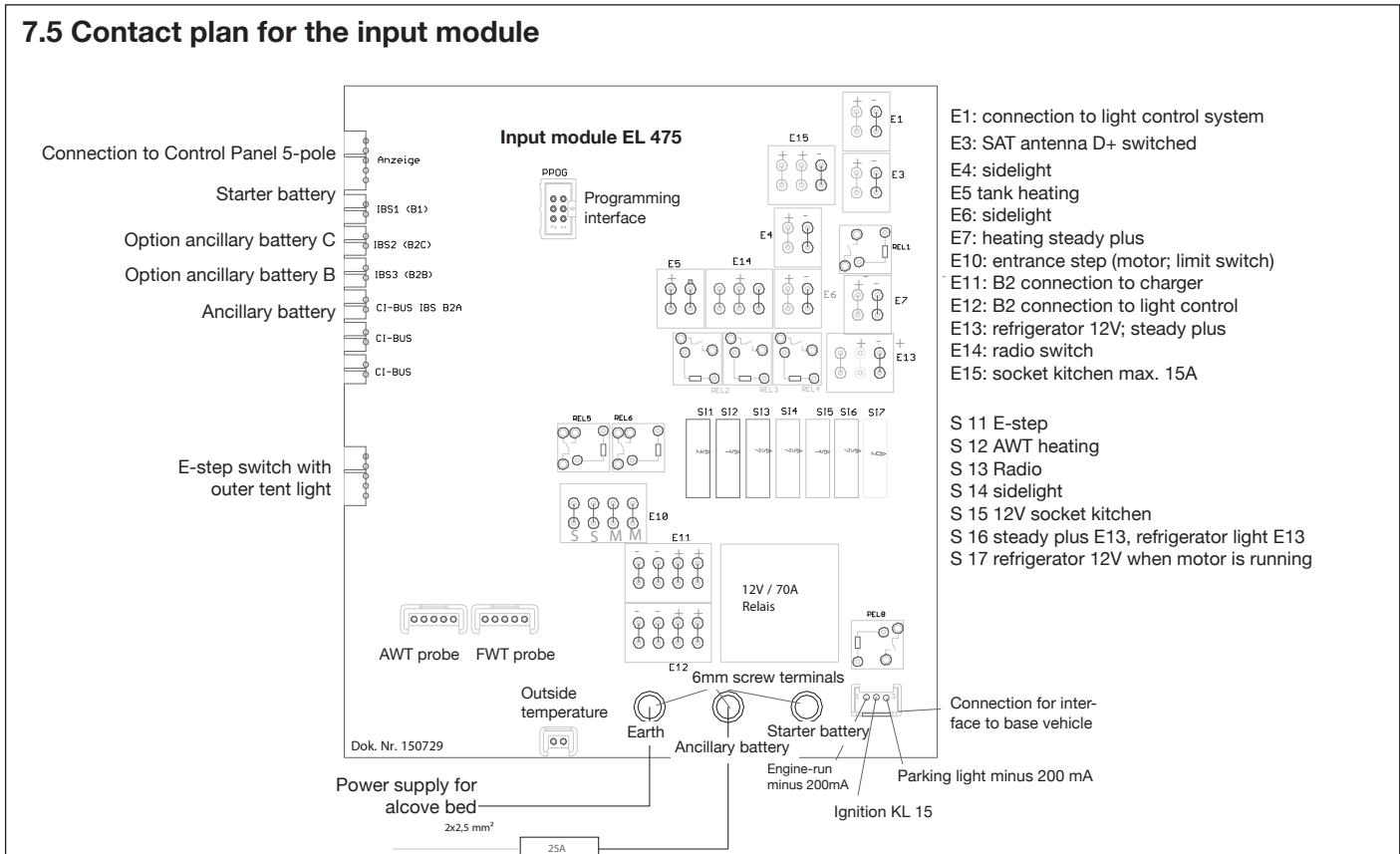
The fuses for the light control system can be accessed through an opening in the casing cover.



## External socket and antenna terminal in the outer tent

As an option, your motor home also has a combined external socket and antenna terminal in the outer tent. This can be used, for example, to set up a TV in the outer tent. Depending on how you wire it, the integrated antenna terminal can be used as either an input or an output socket. For further information, please speak to your Hobby dealer

## 7.5 Contact plan for the input module





## 7.6 Special Lights

The switches for the lights described here are located directly on the lights themselves; they are not controlled via the control panel.

### **Reading lights**

The LED reading lights can be switched separately.



## 7.7 Mobile navigation

As an optional extra, your motor home can be equipped with a navigation system and integrated rear view camera.



- Read the device manufacturer's operating instructions carefully before initial operation.



- Do not allow yourself to be distracted by this device as this may cause accidents.
- Never operate the device while driving.
- Check the display panel only when the traffic situation is safe for doing so.

## 7.8 Subsequently installed devices

Subsequently installed electronic devices that can be used while driving (e.g. mobile phones, wireless equipment, radios, cameras for driving in reverse, navigation equipment, or others) must meet all of the requirements for electromagnetic compatibility. Such equipment must have been approved in accordance with EU Guideline 72/245/EWG as it appears in version 95/54/EG, because otherwise it may cause interference with the electronic systems already installed in the motor home.

A CE mark is mandatory for devices that have been subsequently installed and which cannot be used while driving.



# Chapter 8: Water

## 8.1 General



- Always use water that is of drinkable quality when working with food. This also applies for washing your hands or objects that come into contact with food.
- In order to ensure excellent water quality, water should be taken directly from the public drinking water system.
- Garden hoses, watering cans and similar materials unsuitable for drinking water should never be used to fill the mobile system.
- If the motor home has not been used for a longer period of time, the entire water system must be emptied completely.
- After longer periods of stagnation, the water system must be flushed thoroughly before being used. Should you discover impurities, the material should be disinfected using suitable agents that have been approved for such measures.

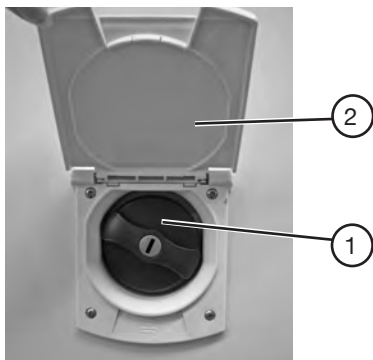
## 8.2 Water supply

The motor home is equipped with a fixed fresh water tank. An electric water pump pumps the water to the individual water outlets. When a tap is turned on the pump is automatically activated and pumps water to the relevant outlet. The waste water tank collects the dirty waste water. The water levels in the fresh water and waste water tanks can be checked on the control panel display.

The fresh water tank is filled using the filler neck on the side wall. The fresh water filler neck has a blue cap ① and a tap symbol on the bottom edge of the frame. The filler cap ① can be opened or closed using the ancillary key.

### Filling the system

- Close all outlets and valves.
- Open the protective cover ② of the filler neck by pulling it.
- Unlock and open the filler cap ①.
- Fill the tank with drinking water.
- Switch on the 12V main switch.
- If applicable turn on the water pump at the control panel.
- Turn all taps to “warm”; let the water run and wait until the water runs without bubbles. This is the only way to ensure that the warm water boiler is also filled with water.



Always ensure that the fresh water tank is filled before switching on the pump. The pump can be destroyed if allowed to run dry!



Never introduce anti-freeze or other chemicals into the water system. This can be poisonous! When operating during winter ensure that the fresh water tank is sufficiently heated.

### Emptying the fresh water tank

- Depending on the model, the outlet valve ① is located either behind the gas-bottle container flap, next to the fresh water tank in the seating arrangement on the outside wall, can be accessed via the toilet flap or is located in the seat chest of the seating arrangement on the side wall.



Always empty the fresh water tank completely if the heating has not been switched on and the motor home is not in use, and especially if there is frost.



## Waste water tank

The waste water tank is insulated by a Styrofoam casing that hot air flows through (only when the hot-air heating has been turned on). This prevents the waste water from freezing in a light frost.



The waste water heating cartridge can only be switched on when the motor home is connected to the 230V mains supply.



Do a small quantity of antifreeze agent (e.g. table salt) to the waste water tank if temperatures are significantly below freezing to prevent the waste water from freezing.



The waste water tank is not sufficiently protected against damage from frost when the vehicle is not in use. Therefore, if there is any danger of sub-zero temperatures empty the waste water tank completely.



Never pour boiling water down the sink. This can cause distortions and leaks in the waste water system.

## Draining the water system

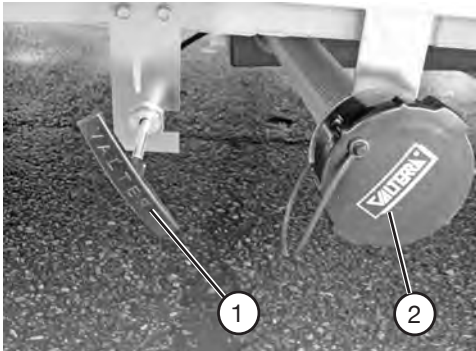
- Ensure that the motor home is in a horizontal position.
- Turn off the 12 V power supply at the control panel.
- Turn on all drain cocks.
- If possible open the filler cap of the fresh water tank.
- Turn the water taps to the middle position and let them run.
- Attach hand showers to the shower fitting.
- Check that water is draining out.
- Clean the tanks and rinse them thoroughly.
- Allow the water system to dry for as long as possible.
- Do not forget to empty the toilet cassette.



If the vehicle is not being used and there is a danger of sub-zero temperatures be sure to drain the entire water system. Leave taps turn on in the middle position. Leave all drain valves open.



Only empty your waste water tank at the specially designated disposal points and never in open spaces! As a rule disposal points can be found at motorway service stations; campsites and petrol stations.



### Emptying the waste water tank

- The waste water opening is located on the left side underneath the vehicle.
- The valve ② for opening the waste water opening is located either directly by the opening or in a protected position in the gas-bottle container.
- Unscrew the lid ①, open the valve or the ball valve ② and allow the waste water to run off.
- When the waste water has drained out completely push the slide valve back in and screw the cap back on.

### 8.3 Hot water supply

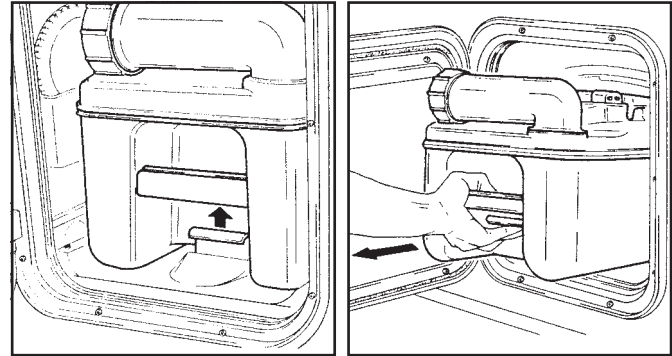
Your motor home is equipped with a heating system with integrated boiler. The boiler holds 10 litres of water. During summer use the water can be heated independently of the heating system. Please see Chapter 9.3 Heating for instructions on operating the boiler.



The non-electric safety or drain valve will automatically open at temperatures under approx. 3°C and drain the boiler contents via a drain nozzle.



If the cold water system is operated without the boiler the boiler tank will still fill with water. In order to avoid frost damage the boiler must be drained via the drain valve, even when not in use.



### 8.4 Flushing toilet

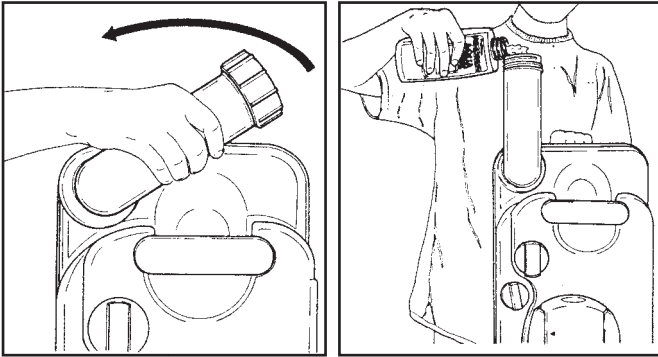
#### Preparing the toilet

- Open the Thetford door (see 5.1) and pull the holding bar up to remove the waste tank.



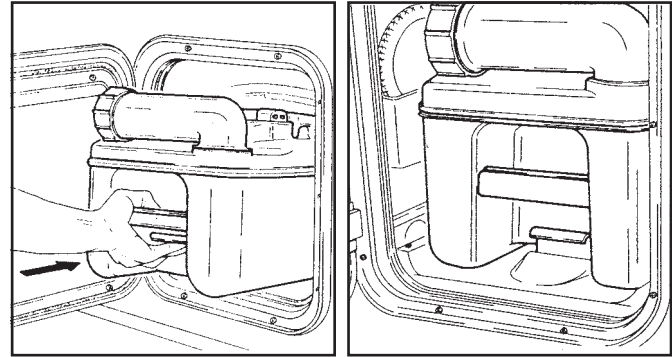
The waste tank can only be removed when the drain valve is closed.

- Pull out the tank as far as possible, keeping it level.
- Slightly tip the waste tank and then pull it out completely.
- Place it in an upright vertical position.
- Turn the drain nozzle to an upward position.



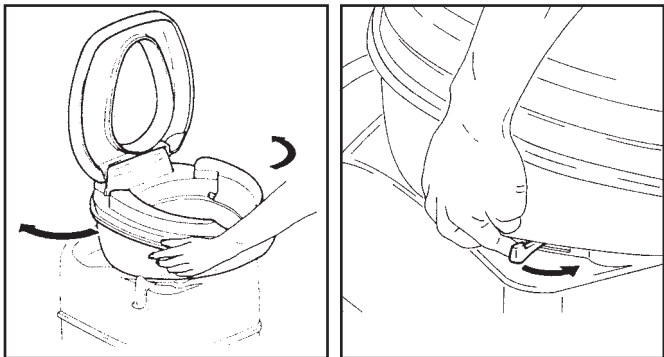
Use toilet fluids very sparingly. An overdose is no guarantee of preventing possible odours!

- Fill the waste tank with the correct amount of toilet fluids.
- Then add enough water to completely cover the bottom of the waste tank.
- Return the drain nozzle to its original position.



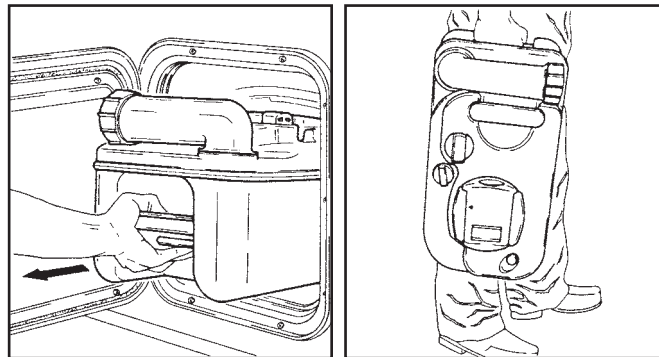
Never fill toilet fluids directly into the toilet bowl.

- Push the waste tank back into position.
- Ensure that the holding bar secures the waste tank.
- Close the service flap.



### Using the toilet

- Turn the toilet bowl to a comfortable position.
- Fill the toilet bowl with a small amount of water by pressing the flush button or by opening the drain valve by pulling the valve handle under the toilet bowl towards you.
- Use the toilet.
- After use open the drain valve (if still closed) and flush. Close the drain valve after flushing.



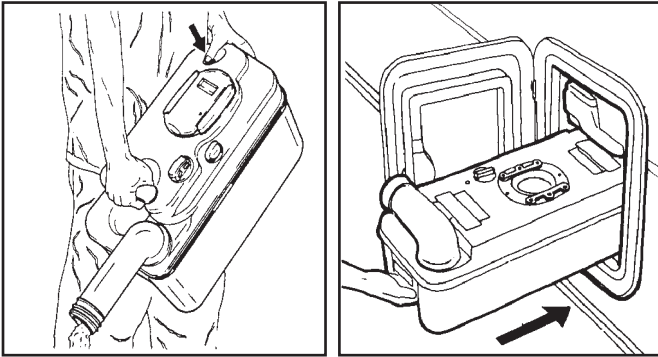
### Emptying the waste tank

The waste tank must be emptied at the latest when the LED lights up. It is recommended that the tank is emptied before this. The LED lights up when the tank contains more than 15 litres. From this point in time the tank has a residual capacity of 2 litres, representing approx. 5 flushes.

- Open the toilet flap and pull the holding bar up to remove the waste tank.

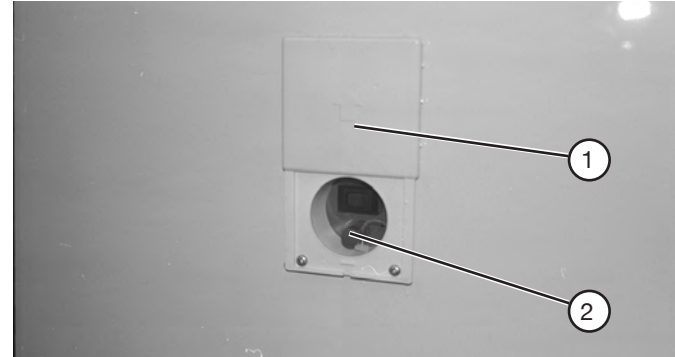


The waste tank can only be removed when the drain valve is closed.



Only empty the waste tank at specially designated disposal points and never in open spaces!

- Take the waste tank to a designated disposal site, making sure to hold the drain nozzle in an upright position.
- Remove the cap on the drain nozzle.
- Tilt the waste tank so that the drain nozzle is pointing downwards.
- Press the vent button with your thumb and hold it down. The waste tank will drain itself.
- Return the waste tank to its storage position, ensuring that it is pushed in until the holding bar locks into place.
- Lock the service flap.



## Water connection for external shower (Optional Extra)

### Opening

- Push the cover ① up to gain access to the water connection.

### Closing

- Remove the external shower's hose from the connection point ② and attach the protective cover.
- Push the cover down.

## Chapter 9: Gas

### 9.1 General safety rules when using LPG fittings



You are not permitted to operate the heating system while driving!

**Exception:**

As an optional feature, the vehicle can be equipped with a gas pressure regulator for use while driving (e.g. ControlCS).

#### Checking the gas fittings

- Before initial operation have the LPG fittings checked by an expert.
- The gas fittings must be checked every 2 years by an LPG expert. This must be confirmed on the certificate (in accordance with Form G 607 from the German Association of Gas and Water Experts (DVGW) and EN 1949).
- The regulator and waste gas pipes must also be checked.
- We recommend that you replace the safety regulator at least every 6 years.
- The connecting hose should also be checked regularly for damage. Replace it immediately if you find tears, porous spots or similar damage.
- The operator is responsible for having checks carried out.



If you suspect that gas is leaking, take the following measures immediately:

- Close the stop valve on the gas cylinder.
- Ignition sources such as open flames or smoking are strictly forbidden.
- Air the rooms.
- Clear the danger zone.
- Inform your immediate surroundings (groundsmen) and, if necessary, the fire brigade.

The gas fittings may only be taken into operation again after they have been checked by an expert.

#### Built-in objects and changes

- Objects may only be built in and changes to the gas fittings made by an expert.
- Only devices with a constant connection pressure of 30 mbar may be operated.
- Following any changes to the gas fittings they must be rechecked by a recognised expert, who must provide a written confirmation.

## Regulators and valves

- Use only special vehicle regulators that have a safety valve. In accordance with the German DVWG (German Association of the Gas and Water Sector) Worksheet G 607, other regulators are not permitted; they are not adequate for handling the heavy strain.
- Pressure governors must have a fixed pressure of 30 mbar. The regulations of EN 12864, Appendix D apply accordingly. The pressure governors must have a minimum flow rate of 1.2 hx/h.
- Attach the high-pressure hose on the bottle carefully by hand (note: left-handed thread). Do not use spanners, pliers or similar tools.
- If the temperature is below 5°C use the de-frosting facility (ice-ex) for regulators.



The operating pressure for gas is 30 mbar.

## Before initial operation

- The waste gas pipe must be tightly connected to the heating and chimney without any leaks. It may not be damaged.
- Keep vents clear.
- Remove any snow from the chimney.
- Clear aspirating openings for combustion air in the side all from dirt and/or snow. Otherwise, the exhaust fumes could have a CO content higher than allowed.
- Do not close the safety vents.
- We recommend that you store a Type D (dry powder) fire extinguisher with a minimum capacity of 1 kg by the entrance door as well as a fire blanket next to the cooker. Familiarize yourself with the safety precautions against fire that have been set up on the grounds where you are parked.



Never use portable cooking or heating devices, except electrical heating devices - but no radiant heaters, because they can cause danger of fire and suffocation.



Read the manufacturer's operating manuals carefully!

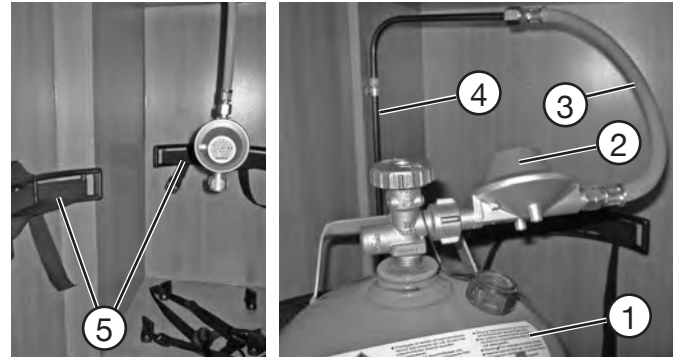




## 9.2 Gas supply

The motor home is equipped with a propane gas system (gas bottle not included in scope of delivery). This system is used to run the following equipment:

- Cooker
- Refrigerator
- Heating
- Hot water boiler
- Oven
- Possibly special accessories



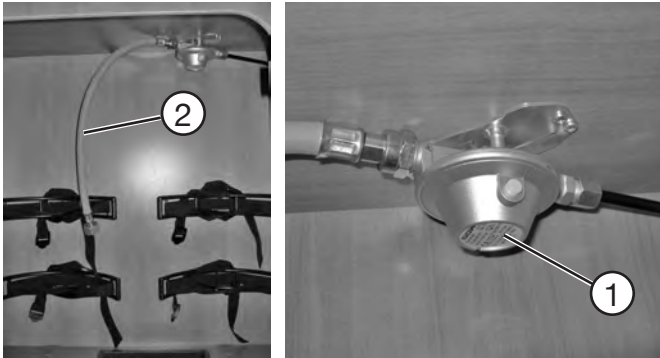
## Gas bottle cabinet

Depending on the model access to the gas bottle cabinet is either via the rear storage compartment or separately in the side wall.

The gas bottle container holds two 11 kg propane cylinders ①. Via a safety regulator ②, the gas bottles are attached by a hose ③ to the supply line ④. Each bottle is fastened by two separate belts ⑤ to the wall at the front end of the camper or the floor of the gas bottle container.



Gas bottles may only be carried in the gas bottle container.



### Gas regulator for France and Great Britain

Due to specific country regulations, the gas regulator in vehicles exported to France and Great Britain is mounted on the wall of the gas bottle container. This requires the use of a high-pressure hose. Therefore, the low-pressure hoses that are normally used may not be fitted here.

- gas regulator mounted on the wall ①
- high-pressure hose ②



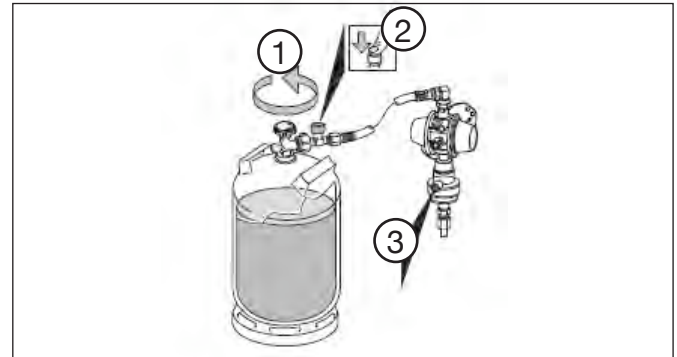
This must be taken into account should it be necessary to replace the hose.

## Gas regulator with a crash sensor (Optional Extra)

Using the MonoControl CS, it is possible to heat the vehicle even while driving.

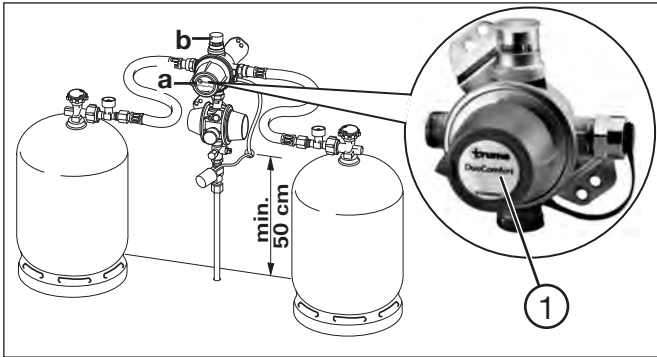
Should there be an accident, the integrated crash sensor automatically interrupts the gas supply, thereby preventing gas from escaping.

(Effect of delay  $3.5 \text{ g} \pm 0.5 \text{ g}$ ; this corresponds to an impact speed of 15-20 km/h against a fixed obstacle.)



### To operate

- ① Open the valve on the bottle.
- ② Press firmly on the hose rupture protection (green button) on the high-pressure hose.
- ③ If necessary (e.g. after it has been newly mounted or the gas bottle accidentally hits against the gas pressure regulator system) press the green reset button on the MonoControl CS (resets the crash sensor activation element).



### Switching valve for the two-cylinder gas unit (Optional Extra)

The DuoControl CS changeover valve enables you to automatically change from the operating bottle to the spare one. The crash sensor is integrated in the DuoControl; it enables you to use the heating system while driving.



It operates similar to the MonoControl.

a Turn the knob to the left ① or right to determine which cylinder is to be used.

b Shows the status of the cylinder in use.

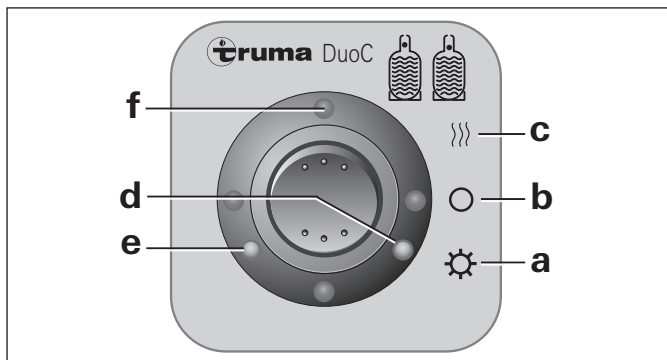
**Green: full**

**Red: empty**

#### Function

- Attach gas cylinders and open the valves of both gas cylinders. Turn the knob to the left or right as far as it will go.

If the pressure in the cylinder is less than 0.5 bar, the valve will automatically switch the cylinder.



### Remote indicator for the switching valve (Optional Extra)

The remote indicator is coupled to the changeover valve of the two-bottle gas system.

- a** Operation in summer. Press the switch down and the LED will show the status of the cylinder in use.
- b** Display switched off.
- c** Operation in winter. Press the switch up and, in addition to showing the status, the switching valve will be heated (yellow LED lights up).
- d** Red LED (cylinder in use is empty)
- e** Green LED (cylinder in use is full)
- f** Yellow LED (operation in winter)

### The following applies to the gas bottle cabinet:

- Always check the gas cylinder mountings before driving. Stand the gas cylinders upright and close the valves.
- Pull any loose straps tight.
- The high-pressure hose to the cylinders must be checked for leaks using the leak detector every time a cylinder is changed.
- The gas bottle cabinet is not suitable for storing additional items.
- The stop valves on the gas cylinders must always be easily accessible.
- Do not close the gas bottle cabinet's air vents.
- Ensure that third parties cannot gain access to the gas bottle cabinet.



Gas bottles must be shut while driving.

## Changing gas cylinders



Do not smoke or ignite open flames while changing the gas cylinders. After changing the gas bottles, check whether there is any gas escaping from the tie-in point by spraying it with leak detection spray.

- Open the door of the gas bottle cabinet.
- Close the main stop valve on the gas cylinder. Pay attention to the direction of the arrow.
- Depending on how your mobile home has been equipped, unscrew either the gas pressure regulator or high-pressure hose from the gas bottle by hand (NB: left-handed thread).
- Loosen the fixing strap and remove the gas cylinder.
- Replace the full gas cylinder in the gas bottle cabinet and carefully fasten it using the fixing straps.
- Depending on how your mobile home has been equipped, screw either the gas pressure regulator or high-pressure hose onto the full gas bottle by hand.
- Open the valve of the full gas bottle that has been attached (if your mobile home is equipped with a DuoControl CS, open both gas bottles).
- Press the hose rupture protection (green key) on the high-pressure hose (only for Mono/Duo Control CS).

- Check that gas is not escaping from the connection point using leak detector spray.
- Close the gas bottle cabinet door.

## Gas stop valves

Every gas device is fitted with a corresponding gas stop valve. The gas stop valves are located in the kitchen cabinet below the sink. They have been marked with the corresponding symbols.



Heating (Oven) Gas cooker Refrigerator

**The following applies to stop valves and valves:**

- All the valves on gas devices must be closed while driving.
- The lower photograph shows the shutoff valves when they are closed. To open the valves, they must be turned to a vertical position.
- No firing point may be in operation when filling the petrol tank of your vehicle on ferries or in the garage.



Should you suspect a leak in the gas system, immediately close the shutoff valves in the vehicle and the gas bottle valves in the gas bottle container.



Over the years, vibrations can cause slight leakages to occur. If you suspect that there are leakages, have your dealer or an authorised workshop for gas facilities check your system.



Never carry out leak tests near an open flame.





# Chapter 10: Built-in devices

## 10.1 General Information

In this chapter, you will find information on the devices that have been built into the motor home. This information refers only to the operation of these devices. To some extent, the devices described are special accessories. For further information on the individual built-in devices, please refer to the separate operating instructions that have been included in the blue service bag found in the vehicle.



Please also refer to the instructions in **Chapter 9** for operating gas devices, gas regulators and gas bottles.



Please observe the instructions in **Chapter 7** for operating electrical devices.



Built-in devices may only be repaired by specialists.



Only the device manufacturer's original spare parts may be used for maintenance and repair work.



Any changes to the built-in devices as well as non-compliance with the rules for use will cause the guarantee to become void and lead to the exclusion of liability claims. Furthermore, the operating licence for the device will become void and, in some countries, this means that the operating licence for the vehicle is also void.

## 10.2 Heating

The combined LPG heating consists of a warm air heater with an integrated hot water boiler (capacity: 10 l).

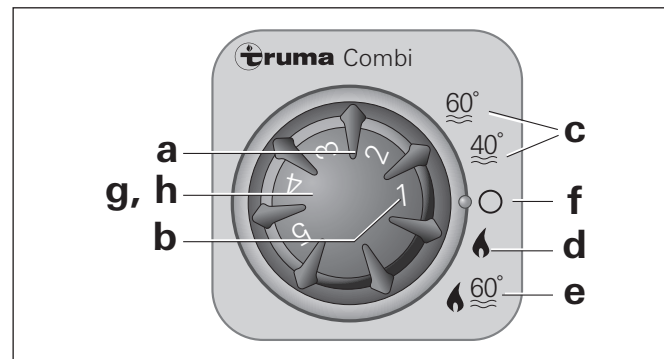
The heating system is fully operational with or without the hot water system.

### Initial operation

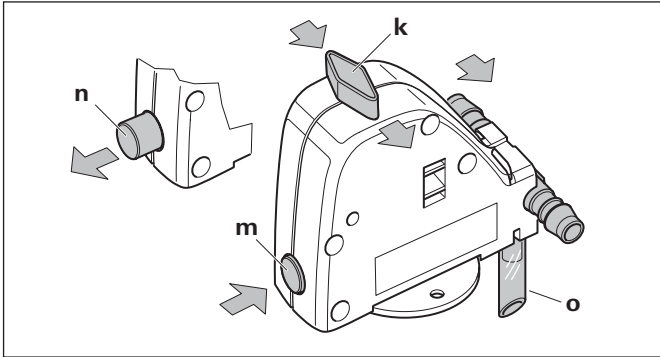
- Set the air vents in the motor home so that the warm air is blown out where required.
- Check that the chimney is clear. Remove any covers.
- Open the gas cylinder and the gas stop valve.

### Operating panel

- a** Rotary switch for room temperature (1-5)
- b** green LED lights up: "ON"  
green LED flashes: "COAST DOWN" to reduce the heater's temperature.



- c** Summer operation  
(Water temperature 40°C or 60°C)
- d** Winter operation  
(Heating **without** regulated water temperature or with drained water system)
- e** Winter operation  
(Heating with regulated water temperature)
- f** Rotary switch "OFF"
- g** Yellow LED lights up: "BOILER HEAT-UP PHASE"
- h** Red LED lights up, red LED flashes  
"MALFUNCTION": carefully clean the heater's rotary switch with a brush.



## FrostControl

FrostControl is a non-electric safety or drain valve. If there is a risk of sub-zero temperatures it automatically drains the content of the boiler via a drain outlet.

If the system is under excess pressure intermittent pressure equalisation will automatically take place via the safety valve. The outlet valve is located by the heating connection in your vehicle (generally in the side seating arrangement next to the entrance door).

**k** Rotary switch position “ON”

**m** Push button position “CLOSED”

**n** Push button position “DRAIN”

**o** Drain outlet (to the outside through the vehicle floor)

### To activate

- Push in the knob at position (m) slightly and, at the same time, move it 90° towards position (k).
- If the switch is in position (k), the knob will remain in position (m).

### To deactivate

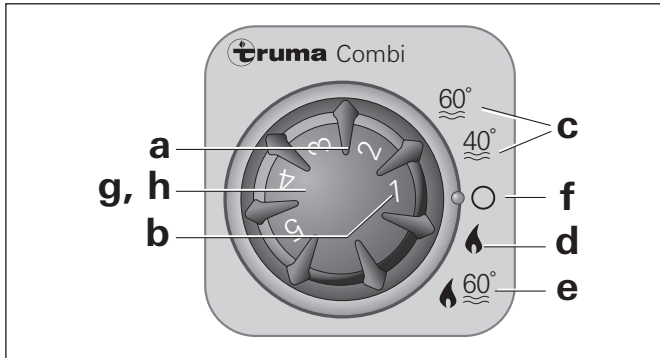
- Turn the switch at position (k) by 90° so that it is parallel to the frost control.
- At the same time, the knob will jump from position (m) to position (n).



The drain valve can only be closed manually using the push button (Position m) and the boiler filled if the valve temperature is above approx. 7°C.



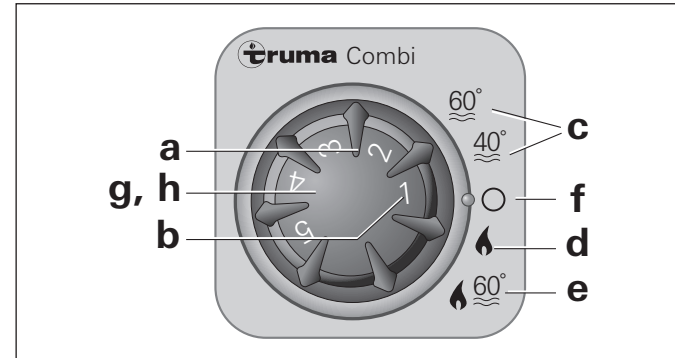
If the temperature of the safety/drain valve is lower than approx. 3°C, the push button will be ejected (Position n) and the contents of the boiler will be drained off via the drain outlet (o).



## Summer operation

- Turn the rotary switch on the operating panel to Position c (summer operation 40°C or 60°C).

The green (b) and yellow (g) LEDs will light up. When the water temperature selected (40°C or 60°C) has been reached, the burner will turn off and the yellow LED (g) will go out.



## Winter operation

### Heating with regulated water temperature

- Set the rotary switch to operating position (e).
- Turn the rotary button (a) to the desired thermostat setting (1-5).

The green LED (b) for operation lights up and simultaneously displays the setting for the room temperature selected.

The yellow LED (g) indicates the warming up phase for the water. The device will automatically select the performance level required. When the room temperature set on the operating panel has been reached the burner will

revert back to the lowest setting and heat the water in the boiler to 60° C. The yellow LED (**g**) will go out when the water temperature has been reached.

#### Heating without regulated water temperature

- Set the rotary switch to operating position (**d**).
- Turn the rotary button (**a**) to the desired thermostat setting (1-5).

The green LED (**b**) for operation lights up and simultaneously displays the setting for the room temperature selected. The yellow LED (**g** – warming-up phase for the water) only lights up at water temperatures below 5°C. The device will automatically select the performance level required.

When the room temperature set on the operating panel has been reached the burner will turn off. The warm air blower will continue to run at a low rotation speed as long as the air emission temperature (of the device) is above 40°C. If the boiler is full the water will automatically also be heated. The water temperature will depend on the heat produced and the duration of heating required to reach the room temperature selected.

#### Heating with drained water system

- Set the rotary switch to operating position (**d**).
- Turn the rotary button (**a**) to the desired thermostat setting (1-5).

The green LED (**b**) for operation lights up and simultaneously displays the setting for the room temperature selected. The yellow LED (**g**) only lights up if the temperature of the device is below 5°C. The device will automatically select the performance level required.

When the room temperature set on the operating panel has been reached the burner will turn off.

### Turning off

- Turn the heater off using the rotary switch (position **f**). The green LED (**b**) will go out.



If the green LED (**b**) flashes after the device has been turned off, a coast-down phase to reduce the device's temperature is being carried out. This will finish after a few minutes and the green LED (**b**) will go out.



In the case of malfunction, the red LED (**h**) will light up. Please check the manufacturer's instructions to determine possible causes of malfunction.

### Filling up the boiler

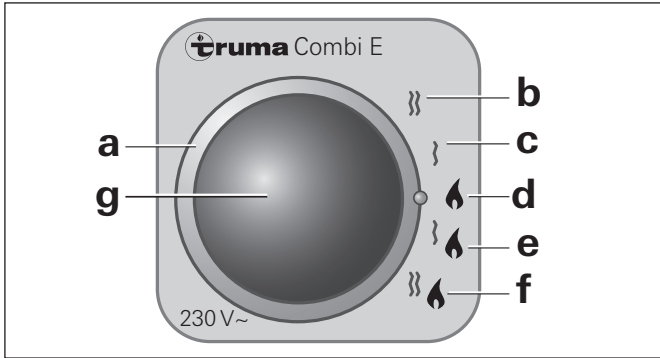
- Close the drain valve by pushing the button until it locks into place.
- Turn on the 12V power supply by turning on the main switch on the control panel.
- Turn on all taps and set them to "warm". Leave them on until the boiler fills up due to the air displacement.



At temperatures below approx. 7°C turn on the heating first in order to warm up the installation area and the FrostControl on the drain valve. After a few minutes, when the temperature on the FrostControl is above 7°C, the drain valve can be closed.

### Draining the boiler

- Turn off the 12V power supply at the control panel.
- Turn on the hot water taps.
- Turn the rotary switch on the drain valve 180° until it locks into place (the push button will be ejected), the drain valve will open and the boiler contents will drain off to outside.



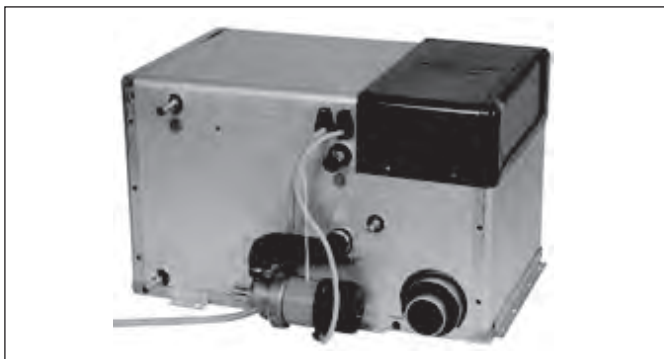
- a Rotary switch for selecting type of energy
- b Electrical operation: 230 V, 1800 W
- c Electrical operation: 230 V, 900 W
- d Operating on gas
- e Mixed operation\* (gas and electrical operation, 900 W)
- f Mixed operation\* (gas and electrical operation, 1800 W)
- g Yellow LED lit up: "Electrical operation"

\*For operation in winter only!

When operating in summer, the device automatically selects electrical operation with the preselected electric power (900 W or 1800 W).

### 10.3 Electric Heating System (Optional Extra)

The electric heating system also has heating rods to enable electric operation. These can be switched on or combined manually.

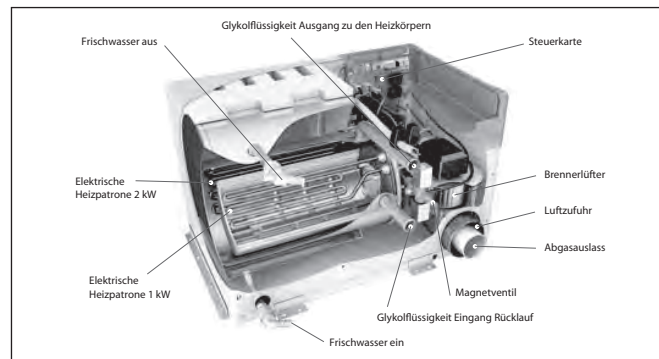


## 10.4 Hot-water heating (Optional Extra)

The LPG heating system Compact 3010 is a hot-water heating system with a separate hot-water heater (contents: 8.5 l). The heating system can heat up even if the hot-water heater has not been filled with fresh water.

### Place of installation

- in the clothes cupboard



### Please note the following

- Please read the separate operating instructions carefully before initial use of the heating system.
- Always switch the main switch for the heating system off whenever the vehicle is not in use.
- If there is danger of frost, always empty the fresh water out of the hot-water heater.
- The heating system may not be started if it has not been filled with glycol.
- To make the best possible use of the convection principle, nothing must prevent the air from circulating in the motor home, such as behind the back cushions, winter ventilation, in the bed frames and behind the stowage cabinets.



### Operating methods

- LPG operation
- heating cartridge operation (230 V)
- combined LPG and heating cartridge operation

### Functionality

- hot-water heater
- heating system and hot-water heater
- heating system

### Operating unit

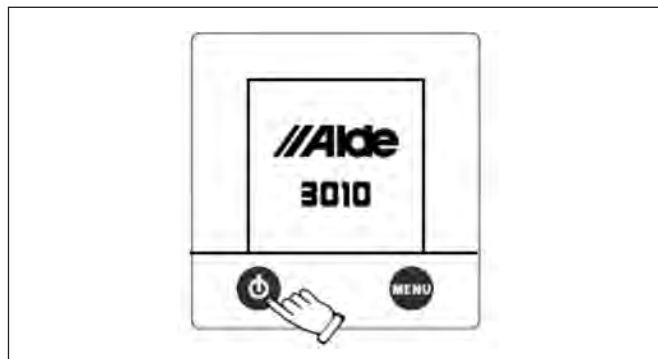
While on standby, you can see which functions have been activated for the heating system; the backlight is switched off. After two minutes, the operating unit switches from the setting position to standby if no key is pressed or if the arrow keys have been used to set it to standby.



Please refer to the separate operating instructions for the „Alde Compact 3010“ for more detailed information on the operation, use and upkeep of the hot-water heater.

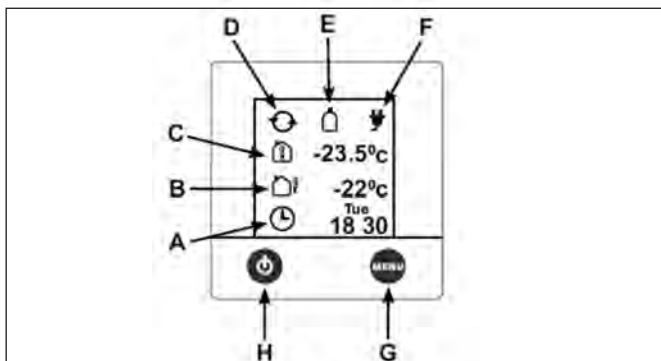


Use the Control Panel by the entrance to operate the basic functions of the hot-water heating system.



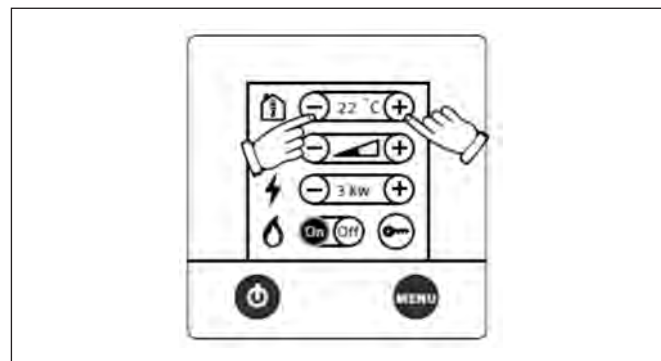
### To start the hot water heater

Press the On/Off button. The heater will start, using the settings that were last selected. The Alde logo appears on the display.



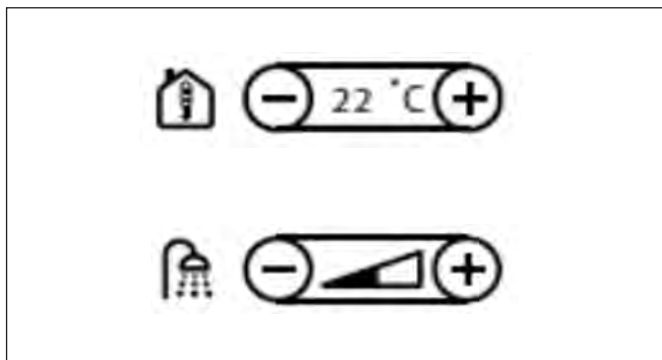
### Idle state

- A** Clock
- B** Outside temperature
- C** Inside temperature
- D** Circulation pump
- E** Remote indicator
- F** 230V connection
- G** Menu button
- H** On/Off button



### Settings menu

Press the menu button to reach the Settings menu. Any settings you make will be automatically saved after 10 seconds. If no buttons are pressed, the control unit will return to the idle state after 2 minutes.



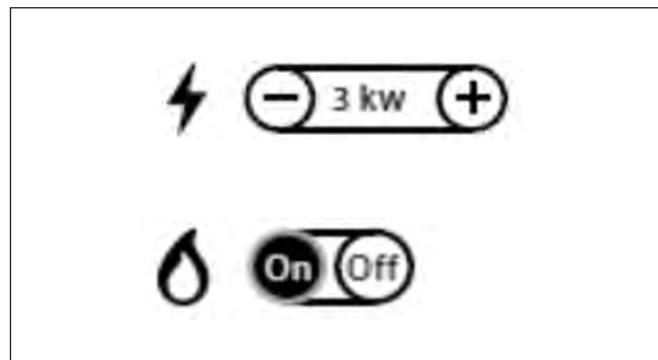
### Setting the desired temperature (+5°C to +30°C)

by pressing – or + in steps of 0.5°C.

Hot water (50°C) is always available when this is switched on.  
The hot-water system is operated electrically or uses LPG.

### Setting the hot water

Should you require more hot water, the temperature can be increased temporarily from 50°C to 65°C. After 30 minutes, the hot-water heater will switch back to normal operation. Increase the amount by pressing +; turn the hot water off by pressing -.

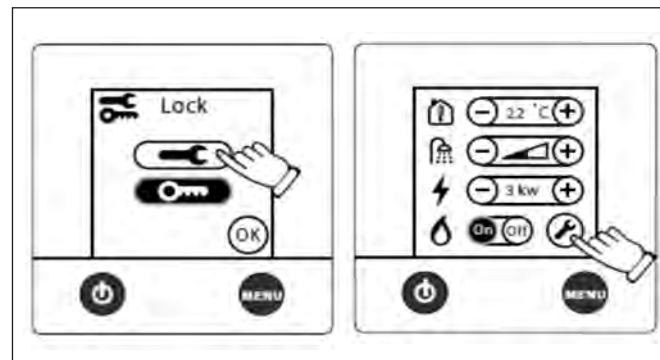
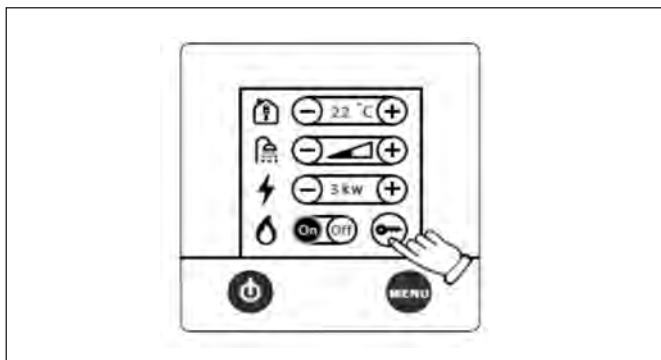


### Setting the electric heating system

Use the – and + buttons to select the output (Off, 1/2/3 kW). Preference is given to electrical operation when selecting whether to operate on electricity or gas.

### Setting for heating with gas

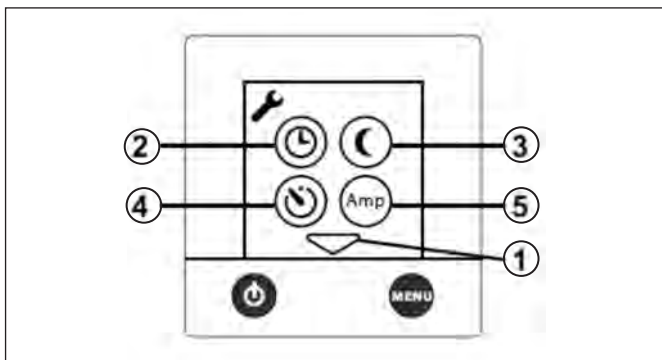
Set the heating to gas operation. Start operation with gas by pressing the On button. The heating system will operate until the temperature you have set has been reached. Turn gas operation off by pressing the Off button.



### Activating the Tools menu

The Tools menu is used to control the remaining functions of the control unit.

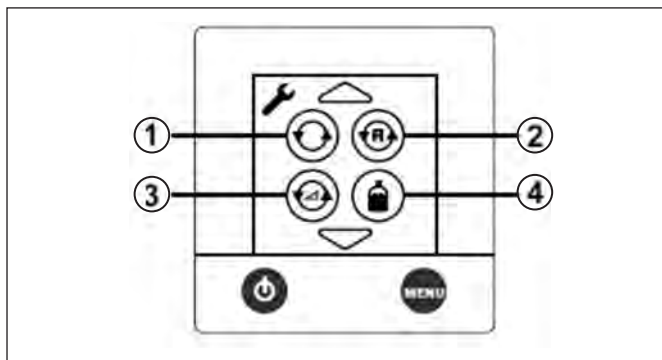
To activate the Tools menu, the following icons must be pressed, as shown on the left:



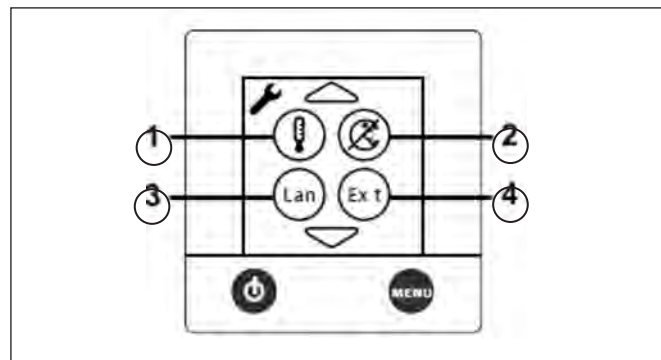
- ⑤ Overload protection prevents 230V fuses from overloading. If power consumption exceeds the value that has been set, the electric output of the heating system will automatically be reduced.

### Functions of the Tools menu

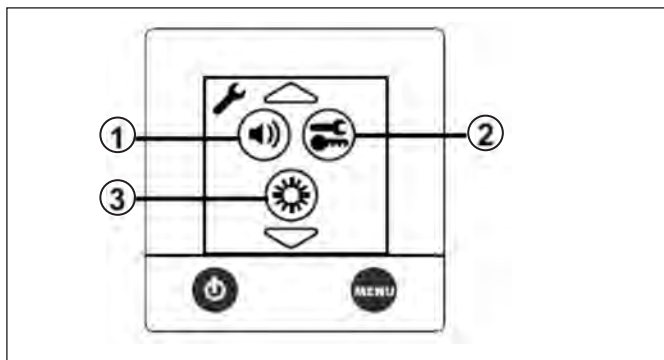
- ① Arrow icons enabling you to switch between the individual Tools fields.
- ② Setting the clock to use functions such as automatic start or automatic temperature.
- ③ Automatic temperature change to set temperatures, e.g. at night or on individual days.
- ④ Automatic start at a later time. The heating system will run for 24 hours and repeats this procedure every week at the same time. The On/Off button must be set to Off.



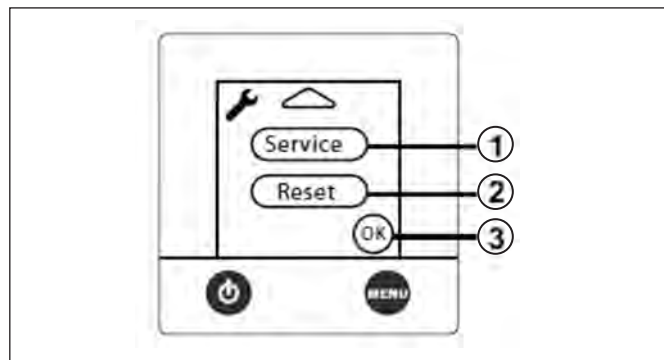
- ① Continuous operation of the pumps to limit the volume of hot water, especially if little heating is required.
- ② Pump Auto / 12V – the 230V pump will run if this is set to the auto position; if the 230V electric power supply is interrupted, the 12V pump will start up. If set to 12V, the 12V pump will run even if the 230V electric power supply has been connected.
- ③ Setting the pump speed.
- ④ This function is used in combination with the automatic gas-bottle change-over (DuoComfort). It indicates whether the liquid gas bottle is empty.



- ① Temperature setting for calibrating the temperature using the control unit.
- ② Automatic increase in temperature at 2.00 a.m. to reduce danger of Legionella bacteria.
- ③ Language setting (German, English, French)
- ④ Function for external start, e.g. using GSM.



- ① Setting for key tone.
- ② Lock/Activate access to Tools menu.
- ③ Setting the light intensity from 1-10.



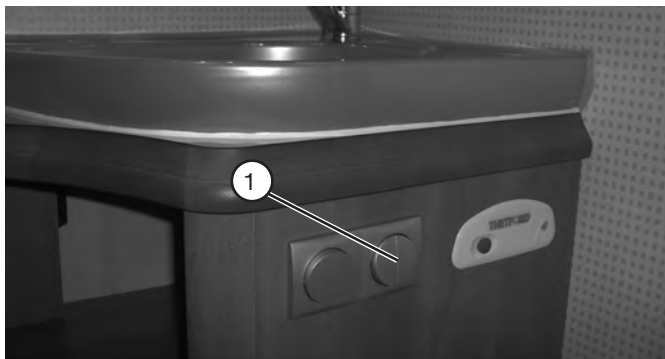
- ① The Service function allows you to view certain values on the display (only in English).
- ② Resets the system to the manufacturer's default settings (heating Off; electrical operation 1kW; heating with LPG On; inside temperature 22°C).
- ③ Quits the Tools menu

## Error messages

Error messages are shown on the display (panel in idle state).

|                             |   |
|-----------------------------|---|
| <b>Battery low:</b>         | if voltage sinks to under 10.5V, the heating system will switch off. Automatic reset to above 11V.        |
| <b>Fan failure:</b>         | incorrect fan speed. Automatic reset after 5 minutes.   |
| <b>Gas failure:</b>         | gas bottle is empty. Reset by switching off or restart.   |
| <b>Overheating is red:</b>  | to reset, interrupt the 12V electric power supply and connect it again.                                   |
| <b>Overheating is blue:</b> | to reset, interrupt the 12V electric power supply and connect it again.                                   |
| <b>Window is open:</b>      | the heating system interrupts the gas supply when the window is open. Shut the window.                    |
| <b>Connection failure:</b>  | connection error between the heating system and the panel. Switch the main voltage off and then on again. |
| <b>Panel failure 1:</b>     | panel error   |
| <b>Panel failure 2:</b>     | panel error   |





### Wash room

Since the convector heater in the wash room must be mounted behind the external panel and, therefore, there is no guarantee that the air can circulate sufficiently, a fan has been provided to circulate the hot air in the room. This fan can be activated in two stages using the switch ①.



Please refer to the separate operating instructions for the „Alde Compact 3010“ for more detailed information on the operation, use and upkeep of the hot-water heater.

## 10.5 Refrigerator

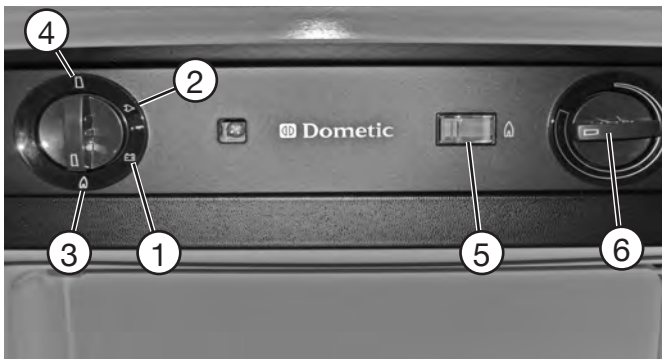
### Modes of operation

Three modes of operation are possible for the refrigerator.

- **12 V operation:** electricity is supplied by the motor home's battery.
- **230 V operation:** electricity is supplied from an external source.
- **LPG:** supply is from the motor home's gas bottles



Please refer to the manufacturer's separate operating instructions before using the refrigerator.



## 12 V operation

12 V operation can only be used while driving, when the motor is running. When resting or if you have stopped for a longer period of time, turn off the 12 V operation and, if required, select another mode of operation.

- Turn the energy selector switch to battery operation ①.
- 12V operation will only function if the vehicle's motor is running.
- The refrigerator runs without a thermostatic control (continuous operation). 12 V operation should, therefore, only serve to maintain a temperature which has already been achieved.

- To turn the refrigerator off turn the energy selector switch to the O position ④.

## 230 V operation

- Turn the energy selector switch to mains ②.
- Use the thermostat ⑥ to regulate the temperature. No absolute temperature values have been assigned to the temperature levels.
- To turn the refrigerator off turn the energy selector switch to the O position ④.

## Gas operation

- Turn the energy selector switch to gas operation ③.
- Open the main stop valve on the gas cylinder and the "Refrigerator" gas stop valve.
- Turn the thermostat ⑥ to the highest setting and keep it pressed down. The refrigerator either ignites automatically or by pushing the button for manual ignition several times (model-specific).
- If gas operation has been activated, then the indicator in the control window will move into the green zone ⑤. Only release the button when the the indicator is in the green zone.
- Use the thermostat ⑥ to regulate the cooling capacity. No absolute temperature values have been assigned to the temperature levels.

- To turn the refrigerator off turn the energy selector switch to the O position ④
- Close the main stop valve on the gas cylinder and the “Refrigerator” gas stop valve.



Environmental conditions influence the performance of the refrigeration unit. The system reacts sluggishly to changes in the thermostat regulator, loss of cold when opening the door or storing goods. Use the winter cover if the temperature is below +10°C (Dometic accessory).

If the temperature stays above +32°C, an additional fan (Dometic accessory) should be installed



## Refrigerator door lock



While driving, the refrigerator door must always be closed and locked.

The refrigerator door has an automatic lock. If the door is closed and pushed firmly it will lock automatically.

### Locking the Slim Tower:

Pull on the handle and open the refrigerator door.



To avoid mould or unpleasant odours always lock the refrigerator door in the ventilation position when the refrigerator is turned off.

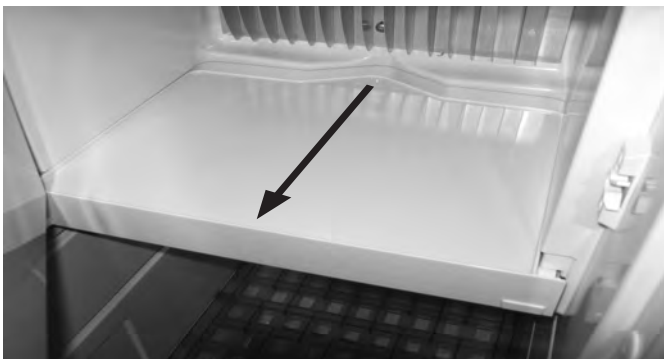


### Removable freezer (Slim Tower)

To make the best use of space, the freezer can be removed.

#### To remove the freezer

- Fold down the locking clamps underneath the freezer.
- Push both clamps towards the middle.
- Pull the freezer slightly out.
- Unhinge the door.
- Remove the floor panel of the freezer.



Information on removing the freezer is also given on the freezer door.



## 10.6 Gas cooker

The kitchen in the motor home is equipped with a gas cooker with three burners.

### Before initial operation

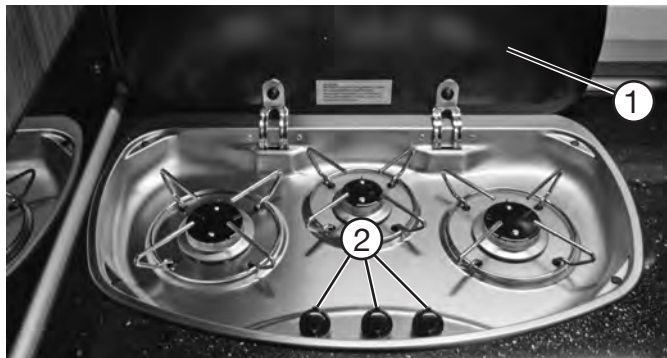
- Open the bottle valve and the quick-action stop valve in the gas pipe.
- Open the skylight or the kitchen window
- Ignition points which must be pressed for ignition when turning on the gas device should spring back to their original position after being pressed.



Never use the cooker or other devices extracting combustion air from the interior of the vehicle to heat the vehicle. If this is ignored there is an acute risk to life due to a lack of oxygen and the odourless carbon monoxide which could be generated.



Do not operate the cooker when the glass covering is closed.



## Operation

- Open the tinted glass covering ①.
- Turn the rotary switch ② of the burner you wish to use to the ignition position (large flame) and press.
- Ignite the burner with a gas lighter or a match or cigarette lighter.
- Continue to press the rotary switch for a further 5-10 seconds to ensure that the automatic flame guard takes effect.
- Release the rotary switch ② and turn to the desired setting (large or small flame).
- If ignition was unsuccessful, repeat the procedure.

- To turn off the gas flame, turn the rotary switch back to the “0” position
- Close the main gas stop valve on the gas cooker.



Use oven gloves or potholders when handling hot pots, pans or similar objects. You may be burned!



After cooking, leave the glass covering open until the burner no longer emits heat. Otherwise, the glass plate could explode.



Never store easily flammable objects such as dishtowels, serviettes, etc. near the cooker. Danger of fire!



## 10.7 Oven (Optional Extra)



- Do not close the air vents on the oven.
- Only use the oven after making a 230 V or 12 V mains connection (automatic ignition).
- A skylight or window must be open when the oven is in operation.
- The oven door must remain open during the ignition process.
- If there is no ignition repeat the procedure from the beginning.
- In the event the pilot light is extinguished by mistake set the rotary switch to the "0" position and leave the pilot light out for at least one minute before reigniting it.



- Never operate the oven when it is empty (no food inside).
- Never use the grill (Optional Extra) for longer than 25 minutes.
- Never use the oven to heat the motor home.

### Switching on

- Turn on the 12 V power supply at the main switch of the control panel.
- Open the main stop valve on the gas cylinder and the gas stop valve "Oven".
- Open the oven door as far as it will go.
- Position the oven rack or baking tray in such a way that there is no direct contact with the flame.
- Gently press the rotary switch and set it to the desired ignition position (oven or grill).
- Press the rotary switch. Gas will be released to the burner and the flame will ignite automatically.
- Depress the rotary switch for a few seconds until the ignition safety valve keeps the gas supply open.
- Release the rotary switch and set it to the desired level of performance (oven only).
- Close the oven door carefully so that the flame is not extinguished.



### Switching off

- Turn the rotary switch to the “0” position. The flame will be extinguished.
- Close the main stop valve on the gas cylinder and the gas stop valve “Oven”.



### 10.8 Fume Hood (Optional Extra)

As an option, the kitchen can be fitted with an extractor fan. The built-in fan blows kitchen odours directly outside.



Press the right button to turn on the fume hood. Hold the fan button firmly to select the speed of the fan from among 15 different speeds.



The kitchen light, which is operated via the control panel, can also be switched on using the left button.



Clean the filter of the fume hood regularly, as it collects fat from kitchen odours.



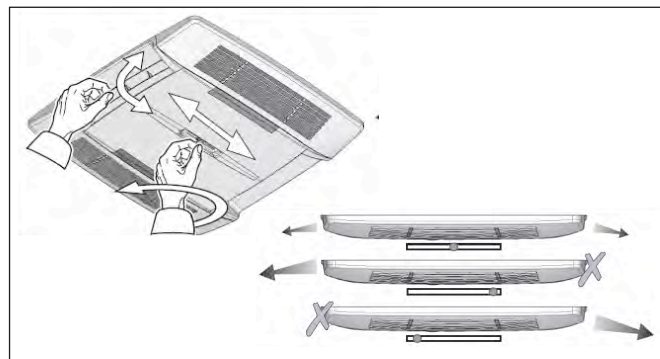
## 10.9 Rooftop Air Conditioning (Optional Extra)

The air conditioner is located instead of the roof window on the living room ceiling.

To operate the air conditioner correctly and optimize its performance, you should observe the following:



- Ensure sound thermal insulation; seal chinks and cover up glass areas.
- Avoid opening doors and windows unnecessarily.
- Do not plug or cover up air intakes and openings.
- Do not spray water into the air conditioner.
- Keep all easily inflammable material away from the system.



### To set the direction of ventilation

- First turn the knob counter-clockwise.
- Set the slide to correspond with the desired direction of ventilation.
- Turn the knob clockwise.

# Chapter 11: Maintenance and Care

## 11.1 Maintenance

### Maintenance intervals

There are stipulated maintenance intervals for the motor home and its equipment.



Also note the maintenance intervals for the basic Fiat and Renault vehicle.

#### The following applies for maintenance intervals:

- Have the first maintenance carried out by a HOBBY dealer 12 months after the vehicle was first registered.
- All further maintenance should be carried out once a year by a HOBBY dealer.
- The maintenance of the basic vehicle as well as all built-in equipment should be carried out at the intervals given in each operating manual.



The gas fittings must be checked every 2 years by an expert for LPG and confirmed on the certificate in accordance with DVGW G 607 and EN 1949.



The operator of the vehicle is responsible for having maintenance carried out on schedule.



Replace the safety regulator for gas at least every 6 years!



For safety reasons, spare parts for equipment must conform with the manufacturer's instructions and must be installed by him or a duly authorised representative.

## 11.2 Airing

For a comfortable climate inside the caravan, there must be sufficient ventilation. This also avoids corrosive damage due to condensation.

#### Condensation is caused by

- insufficient volume inside the caravan
- breathing and perspiration of the passengers
- bringing in damp clothing
- operating a gas cooker



Ensure that there is a sufficient exchange of air to avoid damages due to the build-up of condensation!

## 11.3 Care

### Cleaning the exterior

The vehicle should not be washed more often than necessary.



Wash the vehicle only in places provided for this purpose.



Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the environment.



Only wash the vehicle at sites designated for this purpose. Avoid direct exposure to sunlight and adhere to environmental protection measures.

Do not use cleaning agents containing solvents.

#### The following applies when cleaning the exterior:

- Rinse the vehicle with a weak jet of water.
- Wash the vehicle with a soft sponge and a commercial shampoo solution. Rinse the sponge often.
- Then rinse with a generous amount of water.
- Dry the vehicle with a suede cloth.
- After washing the vehicle, leave it standing outside to dry off completely.



Dry the headlights and sockets thoroughly, as water collects there easily.

### Washing with a high pressure cleaner



Do not spray stickers and external decors directly with the high pressure cleaner as they could peel away as a result.

Before washing the motor home with a high pressure cleaner, study its operating manual carefully. During washing maintain a minimum distance of 700 mm between the motor home and the high pressure cleaner. Please note that the water jet is under pressure when it comes out of the cleaning nozzle. Incorrect handling of the high pressure cleaner can result in damage to the motor home. The water temperature should not exceed 60°C. Keep the water jet moving while washing. The jet should not be pointed directly at gaps around doors; gaps around windows; acrylic windows; electric attachments; the exhaust chimney; refrigerator grille; connectors; seals; service flaps or skylights as this could damage the vehicle or result in water penetrating inside the vehicle.

**The following applies when waxing the surfaces:**

- The varnished surfaces should be treated occasionally with wax. Follow the application instructions given by the wax manufacturers.

**The following applies when polishing the surfaces:**

- In exceptional cases, use polish to refinish weathered varnished surfaces. We recommend solvent-free polishing paste.



Use polish only in special cases and as seldom as possible, because polish removes the top layer of varnish. Frequent polishing causes extreme wear.

**The following applies for tar and resin stains:**

- Tar and resin stains as well as other organic stains can be removed with petroleum ether or spirits.



Do not use aggressive solutions such as products containing ester or ketone.

**The following applies for damages:**

- Repair damages immediately to avoid further damages due to corrosion. Ask your HOBBY dealer for assistance.

**Skylights, windows and doors**

Window panes require particularly careful treatment.

**The following applies for their care:**

- Rub the rubber seals around doors and windows lightly with talcum powder.
- Clean acrylic glass panes only with a clean, wet sponge and a soft cloth. Cleaning with a dry cloth may scratch the panes.



Do not use strong and aggressive solutions that contain softeners or solvents!



You will find talcum powder in auto accessory shops.

## Cleaning the interior



To reduce problems arising from dampness, use water sparingly when cleaning inside.

### The following applies for cushions, upholstery and curtains:

- Clean cushions with a soft brush or Hoover.
- Have very dirty upholstery and curtains dry-cleaned. Do not wash them yourself!
- If necessary, wash them carefully using the foam from mild-action detergent.

### Cleaning instructions for materials that contain Teflon



- Always treat spots immediately.
- Sponge spots, but do not rub them.
- Work from the edge towards the middle of the spot.
- Never use household cleaners to remove spots.
- Hoover cushions regularly to remove any dirt that may have collected.

### We recommend the following methods for cleaning:

#### Method A:

- Use only commercial cleaning agents that have a water basis.
- Alternatively, add two tablespoons of ammonia to 1 litre. Dip a cloth into this solution and gently sponge the spot. Turn the cloth over so that you are using a clean cloth to touch the spot.

This method is particularly suitable for removing:

- wine, milk, lemonade
- blood
- biro, ink
- urine, sweat
- mud
- vomit

#### Method B:

- Use only mild, water-free solvents for dry cleaning.
- Dampen the cloth and proceed as described in method A.

This method is particularly suitable for removing:

- wax, candles
- pencil

Chocolate or coffee should only be washed out with luke-warm water.

**The following applies for carpeted floors:**

- Clean with a Hoover or brush.
- If necessary, treat with carpet shampoo or a shampooing machine.

**The following applies for the PVC flooring:**



Sand and dust can damage the surface of PVC flooring that is walked on regularly. When in use, clean the floor daily with a Hoover or a broom.

- Use cleansing agents for PVC floors and clean water when washing the floor. Do not place fitted carpets on a wet PVC floor, as the fitted carpet and the PVC flooring could become glued together.
- Never use chemical cleansing agents or steel wool, because this will damage the PVC flooring.

**The following applies for furniture surfaces:**

- Clean the surface of wooden furniture with a damp cloth or sponge.
- Rub dry with a dust-free cloth.
- Use mild furniture polish.



Never use strong cleansers or intensive furniture polish, because this could scratch the surface!

**The following applies for the toilet:**

- Clean with a neutral liquid cleanser and a cloth that does not scratch.



Never use strong cleansers in the toilet!



Do not use diluted acetic acid to clean the toilet and the water system or for descaling the water system. Diluted acetic acid can damage the seals or parts of the system.



Do not pour any corrosive substances down the drains. Do not pour boiling water down the drains. Corrosive substances and boiling water damage drain pipes and syphons.

**The following applies for the sink and the cooker:**

- Clean stainless steel parts with normal household cleaners or special stainless steel cleansing agents.

## Accessories

### The following applies for their care:

- Clean plastic parts (e.g. fenders, skirts) with water of up to 60° C and mild household cleansers.
- Clean greasy or oily surfaces with spirits.
- If necessary, lubricate door hinges and leveling supports.
- Clean fresh water pipes, the fresh water and waste water tanks once a year.



Do not use strong cleansers, because these could scratch the surface!



Remove all spray cans containing cleansing and care solutions from the vehicle after you have finished! Otherwise they may explode if the temperature exceeds 50° C!

## 11.4 Winter Lay Up for the Motor home

The camping season often ends when winter starts. Your motor home must be prepared accordingly before being laid up for the winter.

It should only be left in a closed space if this is dry and easy to air well. Otherwise, it is better to leave your motor home in the open.

### The following applies for the base vehicle and the external superstructure:

- Preserve varnished external surfaces with suitable agents.
- Use a wax-based protective agent to protect the metal parts of the undercarriage against rust.
- To protect the tyres, jack up the motor home and move it every two months.
- Leave space between tarpaulins and the motor home so as not to hamper ventilation.
- Leave the forced ventilation open.
- Air the motor home thoroughly every three to four weeks.
- Check the antifreezer in the cooling system and, if necessary, top it up.



**The following applies for tanks and containers:**

- Empty and clean the fresh water tank.
- Empty and clean the waste water tank.
- Empty and clean the toilet tank.
- Completely empty the hot-water boiler: use the control panel to switch off the electric power supply and open all of the water taps.
- Shut the main stop valve on the gas cylinder as well as all separate gas stop valves. Always take the gas cylinders out of the gas bottle container, even if they are empty.



Also note the information and operating instructions given by the manufacturers of the built-in equipment.

**The following applies for the interior fittings:**

- Empty and clean the refrigerator; leave the refrigerator door open.
- Leave stowage spaces and cupboards open to enable air circulation.
- Place cushions and mattresses in such a way that they do not come into contact with condensation.
- If necessary, heat the motor home to prevent the build-up of mould from condensation.
- Set up a dehumidifier (such as salt) inside the camper and dry the granulate or change it regularly.
- Open the battery's circuit breaker. Ideally, remove the battery and/or check the charge level approx. once a month; if necessary, recharge it.
- Switch off the main switch for 12V.

## 11.5 Winter Operation

### Preparations

Your motor home has been designed to allow you to use it to a certain extent in winter. If you really wish to camp in winter, we recommend that you optimize your motor home to meet your personal requirements. Your dealer will be pleased to advise you.

#### The following applies for your preparations:

- Check the vehicle for damage to the paintwork or from rust and, if necessary, repair it.
- Ensure that water cannot run into the ventilation and de-aerating and heating systems.
- Use a wax-based protective agent to protect the metal parts of the undercarriage against rust.
- Preserve varnished external surfaces with suitable agents.
- Fill the petrol tank with winter diesel; check the antifreezer in the windshield cleaning unit and the coolant.

During operation in winter, condensation is caused when using the camper in low temperatures. Sufficient ventilation is extremely important to ensure that the quality of the air inside the camper is good and to avoid damages to the vehicle caused by condensation.

#### The following applies for ventilation:

- Set the heating to maximum power when heating up the vehicle and open all of the upper cupboards, curtains and shades/screens. This enables you to achieve optimum ventilation and de-aerating.
- Every morning, air all of the cushions and stowage spaces and dry any damp spots.
- Air thoroughly with fully opened doors and windows several times a day.
- If the outside temperature is under 8° C, winter covers should be mounted over the ventilation grilles of the refrigerator.



If, despite all of these measures, condensation forms, simply wipe it away.



Before entering the vehicle, remove the snow from your clothes and shoes to prevent an increase in humidity.

#### The following applies for heating:

- Both the air intake as well as the exhaust gas openings of the heating system must be kept free of snow and ice.
- It takes longer to heat up the motor home in winter, especially to heat hot water.

- Do not let the interior cool down completely when you are away or at night; set the heating to low and leave it on.



If there is danger of frost, or if you are in the vehicle, you must let the heating run during the night!



Check the gas supply when operating the vehicle in winter: up to three times as much gas is used.

#### The following applies for tanks and containers:

- If the interior is sufficiently heated, the fresh water tank, water pipes and therme/boiler should not freeze. Fill all of the water containers only after the interior has been thoroughly heated.
- Since waste water is collected outside the vehicle, add antifreezer or common salt to it. The drain cock of the sewage pipe must be kept clear.
- The toilet can be used normally, even in cold weather, as long as the interior of the motor home is heated. If there is a danger of frost, both the excrement and the flushing water tanks should be emptied.

## At the end of the winter season

#### The following applies for the care of the vehicle:

- Thoroughly wash the underbody and the motor. This removes corrosive thawing agents (salts, alkali).
- Clean the exterior and use normal car wax to preserve metal parts.
- Do not forget to remove flue extensions, cover panels on refrigerators, etc.



Wash the vehicle only in places provided for this purpose.



Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the environment.

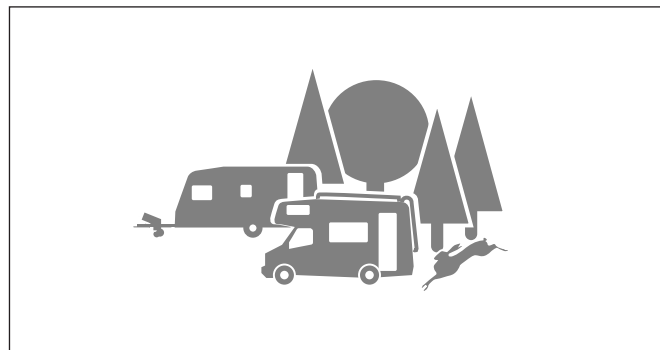


## Chapter 12: Sanitation and Environmental Protection

### 12.1 The environment and traveling

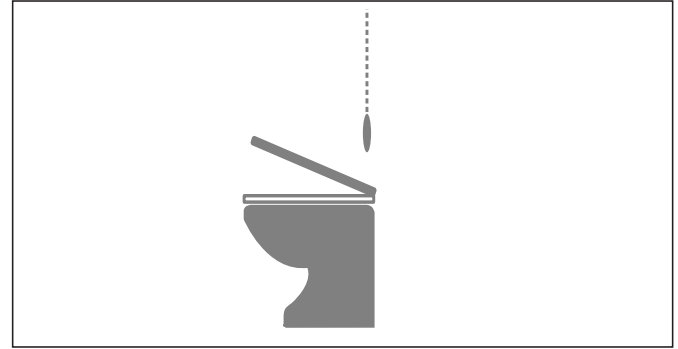
#### Environmentally fair use

It is only natural that owners of motor homes and caravans have a special responsibility for the environment. Always use your vehicle in an environmentally friendly way.



#### The following applies for environmentally fair use:

- When spending longer periods in towns and cities ask about specially designated campsites for motor homes and use them.
- Do not spoil the peace and cleanliness of nature.
- Dispose of wast water and rubbish in the proper way.
- Set an example so that motor home and caravan drivers are not generally held to be pollutionists.



#### The following applies for waste water:

- Collect waste water on board only in built-in waste water tanks or, if necessary, in suitable containers!
- Never empty waste water in open spaces or down man-holes! Generally, the public waste water system does not run through clarification plants.
- Empty your waste water tank as often as possible, even if it is not completely full (hygiene). If possible, rinse out the waste water tank with fresh water after emptying.



Only empty your waste water tank in special places for waste water disposal, but never in open spaces! Generally, waste water stations are found in motorway service areas, campsites or petrol stations.

#### The following applies for wastes:

- Only use approved sanitary cleansing products in the waste tank.



You may be able to avoid the use of sanitary liquids by installing an activated carbon filter system (sold as an accessory)!



Use sanitary liquids very sparingly. An overdose is no guarantee of preventing odours!

## Sanitation

- Never allow the waste tank to become too full. Empty the tank immediately as soon as the level indicator lights up.
- Never empty wastes down manholes! Generally, the public waste water system does not run through clarification plants.



Empty the waste tank in special places for sanitary disposal, but never in open spaces!



### The following applies for waste:

- Separate your waste and put appropriate materials in the recycling bins.
- Empty waste bins as often as possible in the appropriate bins or containers. This avoids unpleasant and problematic waste from building up on board.

### The following applies for picnic spots:

- Always leave picnic spots clean and tidy, even if you dispose of someone else's waste.



Careful use of the environment is not only in the interest of nature, but also of motor home and caravan drivers everywhere!

## 12.2 Returning the vehicle

If you should ever have to give up your motor home and have it recycled, the manufacturer of the basic vehicle is responsible for taking it back (status at the time of printing).

This means that your HOBBY motor home must be taken back free of charge by any Fiat or Renault dealer and expertly recycled.



## Chapter 13: Technical Data

### 13.1 Weights according to 92/21/EWG

| Model  | Series        | Weight of basic vehicle | Driver | Diesel [kg] | Basic equipment | Mass when vehicle is ready to start | Techn. perm. overall weight | Overload weight | No. of seats | Conventional loading | Overload weight | Length of vehicle | Personal equipment | Remaining overload weight |
|--------|---------------|-------------------------|--------|-------------|-----------------|-------------------------------------|-----------------------------|-----------------|--------------|----------------------|-----------------|-------------------|--------------------|---------------------------|
| 65 GF  | Premium Drive | 2736                    | 75     | 77          | 110             | 2998                                | 3500                        | 502             | 4            | 225                  | 277             | 7,0               | 110                | 167                       |
| 65 HGF | Premium Drive | 2796                    | 75     | 77          | 110             | 3058                                | 3500                        | 442             | 4            | 225                  | 217             | 7,0               | 110                | 107                       |
| 65 FL  | Premium Drive | 2773                    | 75     | 77          | 110             | 3035                                | 3500                        | 465             | 4            | 225                  | 240             | 7,0               | 110                | 130                       |
| 65 HFL | Premium Drive | 2833                    | 75     | 77          | 110             | 3095                                | 3500                        | 405             | 4            | 225                  | 180             | 7,0               | 110                | 70                        |
| 70 GF  | Premium Drive | 2731                    | 75     | 77          | 110             | 2993                                | 3500                        | 507             | 4            | 225                  | 282             | 7,0               | 110                | 172                       |
| 70 HGF | Premium Drive | 2790                    | 75     | 77          | 110             | 3052                                | 3500                        | 448             | 4            | 225                  | 223             | 7,0               | 110                | 113                       |
| 70 GE  | Premium Drive | 2833                    | 75     | 77          | 110             | 3095                                | 3500                        | 405             | 4            | 225                  | 180             | 7,4               | 114                | 66                        |
| 70 HGE | Premium Drive | 2938                    | 75     | 77          | 110             | 3200                                | 3500                        | 300             | 3            | 150                  | 150             | 7,4               | 104                | 46                        |
| 70 Q   | Premium Drive | 2833                    | 75     | 77          | 110             | 3095                                | 3500                        | 405             | 4            | 225                  | 180             | 7,4               | 114                | 66                        |
| 70 HQ  | Premium Drive | 2938                    | 75     | 77          | 110             | 3200                                | 3500                        | 300             | 3            | 150                  | 150             | 7,4               | 104                | 46                        |
| 55 GF  | Premium Van   | 2650                    | 75     | 68          | 110             | 2903                                | 3500                        | 597             | 4            | 225                  | 372             | 6,3               | 103                | 269                       |
| 60 GF  | Premium Van   | 2740                    | 75     | 68          | 110             | 2993                                | 3500                        | 507             | 4            | 225                  | 282             | 6,8               | 108                | 174                       |
| 60 HGF | Premium Van   | 2800                    | 75     | 68          | 110             | 3053                                | 3500                        | 447             | 4            | 225                  | 222             | 6,8               | 108                | 114                       |
| 65 GE  | Premium Van   | 2817                    | 75     | 68          | 110             | 3070                                | 3500                        | 430             | 4            | 225                  | 205             | 7,1               | 111                | 94                        |
| 65 HGE | Premium Van   | 2877                    | 75     | 68          | 110             | 3130                                | 3500                        | 370             | 4            | 225                  | 145             | 7,1               | 111                | 34                        |

## 13.2 Inflation pressures

| Motor homes               |                      |         |
|---------------------------|----------------------|---------|
| Tyres                     | Tyre pressure (bar)  | Basis   |
| Michelin XC Camping       |                      |         |
| 215/70 R 15 C             | front: 5,0 rear: 5,5 | FIAT    |
| 225/75 R 16 C             | front: 5,5 rear: 5,5 | FIAT    |
| other tyre manufacturers* |                      |         |
| 225/65 R 16 C             | front: 4,0 rear: 4,8 | RENAULT |
| 215/70 R 15 C             | front: 4,1 rear: 4,5 | FIAT    |
| 225/75 R 16 C             | front: 4,5 rear: 5,0 | FIAT    |

\* These tire pressures are only valid for standard tires made by alternative manufacturers (e.g. Continental, Pirelli, etc.).

## 13.3 Technical data

| Hobby Model    | Model         | Type | Base vehicle | Motorisation <sup>4)</sup><br>Model | exhaust gas emissions | Chassis         | Frame extension | Tow-bar              |                     |
|----------------|---------------|------|--------------|-------------------------------------|-----------------------|-----------------|-----------------|----------------------|---------------------|
|                |               |      |              |                                     |                       |                 |                 | Towing bracket       | Spherical head      |
| <b>FIAT</b>    |               |      |              |                                     |                       |                 |                 |                      |                     |
| <b>65 GF</b>   | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>65 HGF</b>  | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>65 FL</b>   | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>65 HFL</b>  | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>70 GF</b>   | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>70 HGF</b>  | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207355 straight | MT026 (30PEI20020-P) | Typ 04 (3009000400) |
| <b>70 GE</b>   | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207354 straight | MT026 (30PEI20021-P) | Typ 04 (3009000400) |
| <b>70 HGE</b>  | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207354 straight | MT026 (30PEI20021-P) | Typ 04 (3009000400) |
| <b>70 Q</b>    | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207354 straight | MT026 (30PEI20021-P) | Typ 04 (3009000400) |
| <b>70 HQ</b>   | Premium Drive | F3   | Ducato Light | 115 Multijet (85 kW)                | Euro 5                | Spezial         | 207354 straight | MT026 (30PEI20021-P) | Typ 04 (3009000400) |
| <b>RENAULT</b> |               |      |              |                                     |                       |                 |                 |                      |                     |
| <b>55 GF</b>   | Premium Van   | R1   | Master       | 2,3 dCi 125 FAP (92 kW)             | Euro 5                | Plattform L3 H1 | none            | MT047 (30VR100001-P) | Typ 04 (3009000400) |
| <b>60 GF</b>   | Premium Van   | R1   | Master       | 2,3 dCi 125 FAP (92 kW)             | Euro 5                | Plattform L3 H1 | 207256 straight | MT047 (30VR100002-P) | Typ 04 (3009000400) |
| <b>60 HGF</b>  | Premium Van   | R1   | Master       | 2,3 dCi 125 FAP (92 kW)             | Euro 5                | Plattform L3 H1 | 207256 straight | MT047 (30VR100002-P) | Typ 04 (3009000400) |
| <b>65 GE</b>   | Premium Van   | R1   | Master       | 2,3 dCi 125 FAP (92 kW)             | Euro 5                | Plattform L3 H1 | 207100 straight | MT047 (30VR100003-P) | Typ 04 (3009000400) |
| <b>65 HGE</b>  | Premium Van   | R1   | Master       | 2,3 dCi 125 FAP (92 kW)             | Euro 5                | Plattform L3 H1 | 207100 straight | MT047 (30VR100003-P) | Typ 04 (3009000400) |

All measurements in [mm] all weights in [kg]

1) without wing mirror, without side blinker

2) tow coupling is a special accessory

3) rear edge of traction unit to rear edge of back wall

4) FIAT: 115 Multijet: 85 kW (115 PS); 130 Multijet: 96 kW (130 PS); 150 Multijet: 109 kW (148 PS); 180 Multijet Power 130 kW (177 PS)

RENAULT: 2,3 dCi 125 FAP 92 kW (125 PS); 2,3 dCi 150 FAP 107 kW (145 PS)

| Belt system          | Seats | t.p.o.w. [kg] | Permiss. front axle load | Permiss. rear axle load | Unbraked trailer load <sup>(2)</sup> | Braked trailer load <sup>(2)</sup> | Max. permissible drawbar load <sup>(2)</sup> | Maximum towing weight | Length of super-structure <sup>(3)</sup> | Total length | Height | Width 1) | Front tread width | Rear tread width | Wheel base | Front projection | Rear projection |
|----------------------|-------|---------------|--------------------------|-------------------------|--------------------------------------|------------------------------------|--|-----------------------|--|--------------|--------|----------|-------------------|------------------|------------|------------------|-----------------|
| <b>FIAT</b>          |       |               |                          |                         |                                      |                                    |  |                       |  |              |        |          |                   |                  |            |                  |                 |
| UEP 373 (30-101540)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2730   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 373 (30-101540)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2770   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 374 (30-101551)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2730   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 374 (30-101551)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2770   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 373 (30-101540)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2730   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 373 (30-101540)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4503                                     | 6994         | 2770   | 2310     | 1810              | 1980             | 4035       | 948              | 2011            |
| UEP 373 (30-101540)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4953                                     | 7444         | 2730   | 2310     | 1810              | 1980             | 4035       | 948              | 2461            |
| UEP 373 (30-101540)  | 3     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4953                                     | 7444         | 2770   | 2310     | 1810              | 1980             | 4035       | 948              | 2461            |
| UEP 375 (30-101564)  | 4     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4953                                     | 7444         | 2730   | 2310     | 1810              | 1980             | 4035       | 948              | 2461            |
| UEP 375 (30-101564)  | 3     | 3500          | 1850                     | 2000                    | 750                                  | 1600                               | 75   | 5100                  | 4953                                     | 7444         | 2770   | 2310     | 1810              | 1980             | 4035       | 948              | 2461            |
| <b>RENAULT</b>       |       |               |                          |                         |                                      |                                    |  |                       |  |              |        |          |                   |                  |            |                  |                 |
| UEP 451 (30-101563)  | 4     | 3500          | 1850                     | 2100                    | 750                                  | 2000                               | 80   | 5500                  | 3680                                     | 6273         | 2660   | 2140     | 1750              | 1860             | 4332       | 842              | 1099            |
| UEP 450 (30-101516c) | 4     | 3500          | 1850                     | 2100                    | 750                                  | 2000                               | 80   | 5500                  | 4252                                     | 6845         | 2660   | 2140     | 1750              | 1860             | 4332       | 842              | 1671            |
| UEP 450 (30-101516c) | 4     | 3500          | 1850                     | 2100                    | 750                                  | 2000                               | 80   | 5500                  | 4252                                     | 6845         | 2700   | 2140     | 1750              | 1860             | 4332       | 842              | 1671            |
| UEP 450 (30-101516c) | 4     | 3500          | 1850                     | 2100                    | 750                                  | 2000                               | 80   | 5500                  | 4523                                     | 7116         | 2660   | 2140     | 1750              | 1860             | 4332       | 842              | 1942            |
| UEP 450 (30-101516c) | 4     | 3500          | 1850                     | 2100                    | 750                                  | 2000                               | 80   | 5500                  | 4523                                     | 7116         | 2700   | 2140     | 1750              | 1860             | 4332       | 842              | 1942            |

## Load increased for Motorhomes

| Hobby Model             | Model         | Type | Base vehicle | Seats | t.p.o.w. [kg] | Permissible front axle load | Permiss. rear axle load | Unbraked trailer load <sup>2)</sup> | Braked trailer load <sup>2)</sup> | Max. permissible drawbar load <sup>2)</sup> | Maximum towing weight |
|-------------------------|---------------|------|--------------|-------|---------------|-----------------------------|-------------------------|-------------------------------------|-----------------------------------|---|-----------------------|
| <b>FIAT Ducato X250</b> |               |      |              |       |               |                             |                         |                                     |                                   |   |                       |
| <b>65 GF</b>            | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>65 HGF</b>           | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>65 FL</b>            | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>65 HFL</b>           | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 GF</b>            | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 HGF</b>           | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 GE</b>            | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 HGE</b>           | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 Q</b>             | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |
| <b>70 HQ</b>            | Premium Drive | F3   | Ducato Light | 4     | 3650          | 1850                        | 2000                    | 750                                 | 1600                              | 75  | 5250                  |

All measurements in [mm]                      all weights in [kg]

1) without wing mirror, without side blinker

2) tow coupling is a special accessory

3) rear edge of traction unit to rear edge of back wall

Load increased for Fiat Ducato to 3650 kg without technical changes

Load increased for Fiat Ducato to 4250 kg using a maxi chassis (cannot be combined with motorisation 115 PS)

Load increased for Master to 4000 kg by means of Goldschmitt additional pneumatic spring on the rear axle

| Length of superstructure <sup>3)</sup> | Total length | Height | Width <sup>1)</sup> | Front tread width | Rear tread width | Wheel base | Front projection | Rear projection |
|--|--------------|--------|---------------------|-------------------|------------------|------------|------------------|-----------------|
| 4503                                   | 6994         | 2730   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2770   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2730   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2770   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2730   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2770   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4953                                   | 7444         | 2730   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2770   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2730   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2770   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |

## Load increased for Motorhomes

| Hobby Model               | Model         | Type | Base vehicle | Seats | t.p.o.w. [kg] | Permissible front axle load | Permiss. rear axle load | Unbraked trailer load <sup>2)</sup> | Braked trailer load <sup>2)</sup> | Max. permissible drawbar load <sup>2)</sup> | Maximum towing weight |
|---------------------------|---------------|------|--------------|-------|---------------|-----------------------------|-------------------------|-------------------------------------|-----------------------------------|---|-----------------------|
| <b>FIAT Ducato X250</b>   |               |      |              |       |               |                             |                         |                                     |                                   |   |                       |
| <b>65 GF</b>              | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>65 HGF</b>             | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>65 FL</b>              | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>65 HFL</b>             | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 GF</b>              | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 HGF</b>             | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 GE</b>              | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 HGE</b>             | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 Q</b>               | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>70 HQ</b>              | Premium Drive | F3   | Ducato Maxi  | 4     | 4250          | 2100                        | 2400                    | 750                                 | 1600                              | 75  | 5850                  |
| <b>RENAULT Master X62</b> |               |      |              |       |               |                             |                         |                                     |                                   |   |                       |
| <b>55 GF</b>              | Premium Van   | R1   | Master       | 4     | 4000          | 1850                        | 2200                    | 750                                 | 1850                              | 80  | 5850                  |
| <b>60 GF</b>              | Premium Van   | R1   | Master       | 4     | 4000          | 1850                        | 2200                    | 750                                 | 1850                              | 80  | 5850                  |
| <b>60 HGF</b>             | Premium Van   | R1   | Master       | 4     | 4000          | 1850                        | 2200                    | 750                                 | 1850                              | 80  | 5850                  |
| <b>65 GE</b>              | Premium Van   | R1   | Master       | 4     | 4000          | 1850                        | 2200                    | 750                                 | 1850                              | 80  | 5850                  |
| <b>65 HGE</b>             | Premium Van   | R1   | Master       | 4     | 4000          | 1850                        | 2200                    | 750                                 | 1850                              | 80  | 5850                  |

All measurements in [mm] all weights in [kg]

1) without wing mirror, without side blinker

2) tow coupling is a special accessory

3) rear edge of traction unit to rear edge of back wall

Load increased for Fiat Ducato to 3650 kg without technical changes

Load increased for Fiat Ducato to 4250 kg using a maxi chassis (cannot be combined with motorisation 115 PS)

Load increased for Master to 4000 kg by means of Goldschmitt additional pneumatic spring on the rear axle

| Length of superstructure <sup>3)</sup> | Total length | Height | Width <sup>1)</sup> | Front tread width | Rear tread width | Wheel base | Front projection | Rear projection |
|--|--------------|--------|---------------------|-------------------|------------------|------------|------------------|-----------------|
| 4503                                   | 6994         | 2757   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2797   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2757   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2797   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2757   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4503                                   | 6994         | 2797   | 2310                | 1810              | 1980             | 4035       | 948              | 2011            |
| 4953                                   | 7444         | 2757   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2797   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2757   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 4953                                   | 7444         | 2797   | 2310                | 1810              | 1980             | 4035       | 948              | 2461            |
| 3680                                   | 6273         | 2660   | 2140                | 1750              | 1860             | 4332       | 842              | 1099            |
| 4252                                   | 6845         | 2660   | 2140                | 1750              | 1860             | 4332       | 842              | 1671            |
| 4252                                   | 6845         | 2700   | 2140                | 1750              | 1860             | 4332       | 842              | 1671            |
| 4523                                   | 7116         | 2660   | 2140                | 1750              | 1860             | 4332       | 842              | 1942            |
| 4523                                   | 7116         | 2700   | 2140                | 1750              | 1860             | 4332       | 842              | 1942            |



## 13.4 Tyres and rims for basic motor home vehicles

### Basic model

| Hobby Model | Series        | t.p.o.w. [kg] | Perm. axle load front | Perm. axle load rear | Tyre size      | Wheel * attachment | Steel rims       |
|-------------|---------------|---------------|-----------------------|----------------------|----------------|--------------------|------------------|
| 65 GF       | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 65 HGF      | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 65 FL       | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 65 HFL      | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 GF       | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 HGF      | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 GE       | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 HGE      | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 Q        | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 70 HQ       | Premium Drive | 3500 / 3650   | 1850                  | 2000                 | 215/70 R 15 C  | 5 / 71 / 118       | 6 J x 15, ET 68  |
| 55 GF       | Premium Van   | 3500          | 1850                  | 2100                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| 60 GF       | Premium Van   | 3500          | 1850                  | 2100                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| 60 HGF      | Premium Van   | 3500          | 1850                  | 2100                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| 65 GE       | Premium Van   | 3500          | 1850                  | 2100                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| 65 HGE      | Premium Van   | 3500          | 1850                  | 2100                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |

\* No. of tyre bolts / centralising collars / bolt circle

## Tyres and rims for loaded motor homes

### Increased load

| Hobby Model   | Series        | t.p.o.w. [kg] | Perm. axle load front | Perm. axle load rear | Tyre size      | Wheel attachment * | Steel rims       |
|---------------|---------------|---------------|-----------------------|----------------------|----------------|--------------------|------------------|
| <b>65 GF</b>  | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>65 HGF</b> | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>65 FL</b>  | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>65 HFL</b> | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 GF</b>  | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 HGF</b> | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 GE</b>  | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 HGE</b> | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 Q</b>   | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>70 HQ</b>  | Premium Drive | 4250          | 2100                  | 2400                 | 225/75 R 16 C  | 5 / 78 / 130       | 6 J x 16, ET 68  |
| <b>55 GF</b>  | Premium Van   | 4000          | 1850                  | 2200                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| <b>60 GF</b>  | Premium Van   | 4000          | 1850                  | 2200                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| <b>60 HGF</b> | Premium Van   | 4000          | 1850                  | 2200                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| <b>65 GE</b>  | Premium Van   | 4000          | 1850                  | 2200                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |
| <b>65 HGE</b> | Premium Van   | 4000          | 1850                  | 2200                 | 225/65 R 16 CP | 5 / 88 / 130       | 6Ω J x 16, ET 66 |

\* No. of tyre bolts / centralising collars / bolt circle

## 13.5 Accessory weights

| Object   | Weight [kg] | Object   | Weight [kg] |
|--|-------------|--|-------------|
| 2 additional loudspeakers in the living area   | 2.00        | Electric wing mirror   | 0.50        |
| Acrylic glass frame with LED lighting for roof window in driver's cab                  | 5.30        | ESP incl. ASR (and hill holder)  | 0.50        |
| Additional cushion for converting seating arrangement into a bed                       | 2.00        | Extendable mount for flat screen TV                                    | .00         |
| Additional garage door, left, and optional comfort features for garage                 | 7.70        | Fitted carpet, living room and driver's cab, removable                 | 5.60        |
| Additional gel battery 80 Ah for camper  | 28.00       | Fog lights (incl. light and rain sensor)                               | 3.00/3.50   |
| Air-conditioning in the driver's cab   | 21.00       | Folding seat in shower   | 2.10        |
| ALDE hot-water heater Compact-3010   | 40.00       | FROLI comfortable bed system incl. memory foam mattress                | 2.70        |
| Antenna: Yachting 11 incl. antenna mast SF 50  | 2.30        | Fume hood  | 3.00        |
| Bed expansion incl. add. cushion and ladder  | 3.10        | Gas socket, external   | 1.50        |
| Bedspread and decorative pillow  | 1.50        | Heated waste water tank  | 0.50        |
| Bicycle carrier (also suitable for eBikes)   | 25.00       | Insect screen for entrance door  | 3.50        |
| Bumpers, front, painted white  | 0.50        | Kitchen worktop  | 3.00        |
| Cruise control   | 0.50        | Leather steering wheel and gear knob                                   | 0.50        |
| Cutting board for sink   | 1.00        | LED flat screen 19" incl. tuner/receiver                               | 5.90        |
| Dashboard with root wood applications  | 0.50        | LED lighting system "Romantica"  | 1.30        |
| DOMETIC roof air conditioning B 2200, 230V (possible to omit Heki roof bonnet)         | 34.00       | L-shaped seating arrangement w/ luxury living room table, swivels 360° | 15.00       |
| DOMETIC-SEITZ roof bonnet Midi Heki 700 x 500 mm instead of Mini Heki at rear          | 4.50        | Luxury living room table, swivels 360°                                 | 10.00       |
| DOMETIC-SEITZ roof bonnet Midi Heki, electrically driven, instead of Mini Heki at rear | 5.50        | Mud flaps, rear  | 2.00        |
| Driver's and passenger's seats upholstered in interior fabric                          | 3.00        | Onboard computer   | 0.50        |
|  |             | Outer tent socket  | 0.40        |
|  |             | Outside shower   | 0.50        |
|  |             | Passenger airbag   | 3.00        |
|  |             | Pilot seats, pivoted and upholstered in interior fabric                | 4.80        |

| <b>Object</b>  | <b>Weight [kg]</b> |
|--|--------------------|
| PIONEER Moniceiver 2400 incl. navigation, rear view camera and remote control            | 4.70               |
| Pre-installation of radio and radio  | 2.00               |
| Premium window glazing, flat   | 23.00              |
| REMIS plissé folding system for front and side windows in driver's cab                   | 3.50               |
| Remote indicator for DuoControl  | 0.30               |
| Reverse drive video system with colour screen and flat screen                            | 2.00               |
| Roof rail  | 6.00               |
| SAT receiver, digital, 12 V  | 2.00               |
| Tail stanchions  | 6.00               |
| TELECO SAT antenna with autom. orientation 65 cm, 12V /230V                              | 16.00              |
| TELECO SAT antenna with autom. orientation 85 cm, 12V /230V                              | 18.00              |
| THULE-OMNISTOR sun awning 300 cm   | 23.00              |
| THULE-OMNISTOR sun awning 325 cm / 350 cm  | 27.00              |
| THULE-OMNISTOR sun awning 400 cm   | 31.00              |
| Tow coupling   | 35.00              |
| TRUMA DuoControl incl. crash sensor and de-icer  | 2.10               |
| TRUMA heating Combi 6E instead of Combi 4  | 1.10               |
| TRUMA MonoControl CS (crash sensor)  | 1.00               |
| Wireless alarm system by THITRONIK with gas alarm for narcotic gases, propane and butane | 1.00               |

# Index

## A

Accessories  
 upkeep 11-6  
 Additional loads 03-3  
 Additional pneumatic spring 03-6  
 Airing 11-1  
 Alcove bed 06-9  
 Ancillary battery 07-20  
   changing the battery 07-20  
   place of installation 07-20  
 Automatic transmission 03-9  
 Auxiliary heating in the driver's cab  
   10-17  
 Awning 05-15

## B

Bar 06-3  
 Basic equipment 03-1  
 Battery circuit breaker 07-21  
 Bed conversion 06-7  
 Berths 06-15  
 Brakes 02-6/04-8  
 Built-in devices 10-1

## C

Car jack 04-7  
 Changeover valve 09-6  
 Changing the tyre 04-7  
 Charger  
   place of installation 07-23  
 Charging process 07-9  
   when engine is running 07-25  
 Chassis 03-1  
 Checking the gas system 09-1  
 Children's bed 06-15  
 Chocks 02-8

Choosing a parking space 02-10  
 Cleaning the interior 11-4  
 Combined sunshade 06-20  
   to shift 06-20  
 Condensation 11-1  
 Control panel 07-3  
 Converting the L-shaped seating arrangement 06-26  
 Converting the transverse seat 06-7  
 Cushion arrangements 06-16

## D

Darkening system 06-21  
 Day and night positions  
   overview 06-33  
 Deep discharge protection 07-22  
 Doors and flaps  
   interior 06-1  
 Doors  
   opening and closing 05-7  
 Driving 02-7  
   in curves 02-7  
   in reverse 02-6  
   sparing the tyres 04-1  
 Driving economically 02-7  
 Driving in curves 02-7  
 Driving in reverse 02-6

## E

eBike carrier 05-14  
 Electric heating 10-7  
 Electric power supply 07-16  
 Electrical devices, installation  
   safety tips 07-1  
 Electrical system 07-26  
 Emergency equipment 02-9  
   first-aid kit 02-9  
   high-visibility vest 02-9  
   warning triangle 02-9  
 Entrance door 05-7

Entrance step 03-5  
 Environment 12-1  
   disposal 12-3  
   excrements 12-2  
   picnic spots 12-3  
   rubbish 12-3  
   waste water 12-2  
 Environmental protection 12-1  
 Exhaust fumes 09-2  
 External cleaning 11-2  
   high-pressure cleaner 11-2  
   polishing 11-2  
   waxing 11-2  
 External gas connection 05-12  
 External socket 07-8

## F

Fire protection 02-1  
 First aid kit 02-9  
 Fittings 03-8  
 Flaps  
   opening and closing 05-10  
 Flush toilet 08-5  
 Fold-away bed 06-15  
 Forced ventilation 05-6  
 Freezer compartment 10-20  
 Fresh water pump  
   to drain 11-7  
 Fresh water tank 08-1  
   dispensing water 08-1  
   filling up the water 08-1  
   to empty 08-2  
 FrostControl 10-3  
 Fuel filler flap 05-1  
 Fume hood 10-25  
 Furniture doors 06-2  
 Furniture surfaces  
   upkeep 11-5  
 Fuses, assignment of 07-27

## G

Gas 09-1  
 Gas bottle container 09-3  
 Gas bottle  
   to change 09-8  
 Gas cooker 10-22  
   initial operation 10-22  
   operating the cooker 10-23  
 Gas supply 09-3  
 Gas system 09-1  
   exhaust fumes 09-2  
   fixtures  
   and changes 09-1  
   inspection 09-1  
   place of installation 09-5  
   regulator knobs and valves 09-2  
   shutoff valves  
   and valves 09-9  
 General inspection 02-2

## H

Hanging table 06-6  
 Heating 10-2  
   control panel 10-2  
   electric heating 10-7  
   hot-air heating 10-2  
   hot-water heating 10-8  
   to operate 10-2  
   to switch off 10-6  
 Hinged windows 06-24  
 Hot water supply 08-5  
 Hot-air heating 10-2  
 Hot-water heating system 10-8

## I

Insect screen 06-20

## K

Keys to the vehicle 05-7

**L**

Levelling supports 03-4  
 Loading 02-5/03-1  
 Lowering tables 06-5

**M**

Mains connection 07-17  
 Maintenance intervals 11-1  
 Maintenance  
   brake system 04-8  
 Mobile navigation 07-31  
 Motorcycle carrier 03-8

**N**

Navigation 07-31

**O**

Operating the cooker 10-18  
 Outside shower 08-8  
   water supply 08-8  
 Outside shower, water supply  
   08-8  
 Oven 10-24  
 Overflow valve fresh water tank  
   08-2

**P**

Petrol cap 05-13  
 Pillared table 06-9  
 Power saving 02-11  
 Preparing the vehicle 02-3  
 Push lock 06-3  
 PVC flooring 11-5

**R**

Rear external storage locker 02-6  
 Rear view camera 07-31  
 Redirecting electrical devices 02-10  
 Refrigerator 10-17  
   12V operation 10-18

air supply 05-5  
 door lock 10-19  
 to operate 10-18  
 types of operation 10-18

Refuelling 02-7

Registration 02-2

Regulator knobs 09-2

Remote control 07-16

Remote indicator for  
   changeover valve 09-10

Resin stains 11-3

Rims 04-3

Roof air conditioning 10-26

Roof bonnets 06-23

Roof load 02-6

Roof rail 05-13

**S**

Safety belts  
   in the superstructure 06-27

Seats  
   in the superstructure 06-26

Seats  
   overview 06-28

Securing the vehicle 02-10

Service flaps 05-1

Shunting 02-6

Sliding doors 06-4

Spare tyre 04-3

Stowage cabinets 06-1

Sunshade 06-20

**T**

Tables 06-5

Taking back end-of-life vehicles 12-4

Tar stains 11-3

Technical data 13-1

Technically permissible  
   maximum weight 03-1

Tyre pressure 04-2

Tyre pressure values 13-2

Tyre profile depth 04-2

Tyre repair kit 04-4

Tyres 04-1

Toilet flap 05-10

Toilet

  emptying the cassette 08-7

  to use 08-5

  upkeep 11-5

Tow-bar 03-7

TV mount 06-4

**U**

Upkeep 11-2

  accessories 11-6

  chair and cushion covers,  
   curtains 11-4

  fitted carpet 11-5

  furniture surfaces 11-5

  skylight,

  windows and doors 11-3

  toilet 11-5

**V**

Valve for waste water tank 08-4

Valves 09-2

Vehicle Identification Number  
   VIN 03-6

Vehicle tool kit 02-8

Ventilation grills 05-6

**W**

Warning triangle 02-9

Wash room 10-17

Washroom with sliding elements 06-11

Waste water tank 08-3  
   to empty 08-4

Water filler necks 05-12

Water filter 08-3

Water system 02-10

Weights for accessories 13-9

Widening the beds 06-8

  hanging table 06-6

Windows 06-20

Winter operation

  airing 11-8

  anti-freeze measures 11-9

  preparations 11-8

  waste water tank 11-8

Winterising 11-6

  containers 11-7

  external structure and the  
   base vehicle 11-6

  interior fittings 11-7

## Calculating masses for HOBBY motor homes

The following table enables you to calculate the mass of your own motor home on the basis of the mass data given in this manual. This calculation must always result in a positive remaining load in order to fulfil current legal requirements.

To determine your remaining load, simply subtract the "mass when the vehicle is ready to start", the "conventional load", all "additional equipment" as well as your "personal luggage" from the "technically permissible overall mass". Simply enter the date for your personal motor home in the table on the next page. If you have any questions or if anything is unclear, your HOBBY dealer will be pleased to assist you.

Your  
HOBBY Motor Home Plant  
Ing. Harald Striewski GmbH

**Model:**

|  |   |  |
|--|---|--|
| <b>Technically permissible overall mass:</b>   |   |  |
| <b>Mass when the vehicle is ready to start</b> (incl. gas, water, electricity, driver and fuel): | - |  |
| <b>Conventional load</b> (no. of seats [excl. driver] x 75 kg):                                  | - |  |
| <b>Additional equipment:</b>   |   |  |
| 1.)  | - |  |
| 2.)  | - |  |
| 3.)  | - |  |
| 4.)  | - |  |
| 5.)  | - |  |
| 6.)  | - |  |
| 7.)  | - |  |
| 8.)  | - |  |
| 9.)  | - |  |
| 10.)   | - |  |
| 11.)   | - |  |
| 12.)   | - |  |
| 13.)   | - |  |
| 14.)   | - |  |
| 15.)   | - |  |
| <b>Personal luggage</b> = (10 x N) + (10 x L):   | - |  |
| N - Total number of seats (incl. driver)   |   |  |
| L - Length of vehicle in meters  |   |  |
| <b>Remaining load:</b>   |   |  |



Under no circumstances may the technically permissible overall mass of the motor home be exceeded!



## **Hobby-Wohnwagenwerk**

Ing. Harald Striewski GmbH

Harald-Striewski-Straße 15

D-24787 Fockbek/Rendsburg

[www.hobby-caravan.de](http://www.hobby-caravan.de)