



SIESTA VAN • SIESTA • SIESTA ALKOVEN

MANUAL (GB)

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 him 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

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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 3° 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.

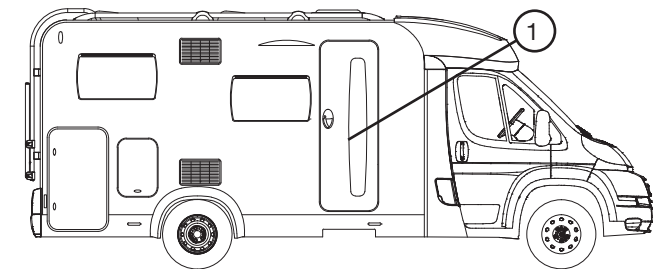
1.3 Designations in the operating instructions

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.

Optional Extras

You have selected a mobile home that is equipped to taste.

This user manual describes all of the models and equipment offered within the same programme. Therefore, it may include equipment that you have not selected.

Differences and, thus, all of the optional extras are marked with an asterisk „*“.



Should there be any equipment or model that is not described in this user manual, please note the enclosed additional operating instructions.

Timeliness of This Manual

The high level of quality and security for mobile homes is ensured by means of continuous further development. In very rare cases, there may be a difference between the description and the vehicle itself.

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 signal and light equipment (Switch on battery circuit breaker), steering and brakes all function properly.
- 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.
- Lock the sliding seat into its original position.

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:

- Motor Vehicle Registration Certificate Part II / Certificate of Conformity (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.

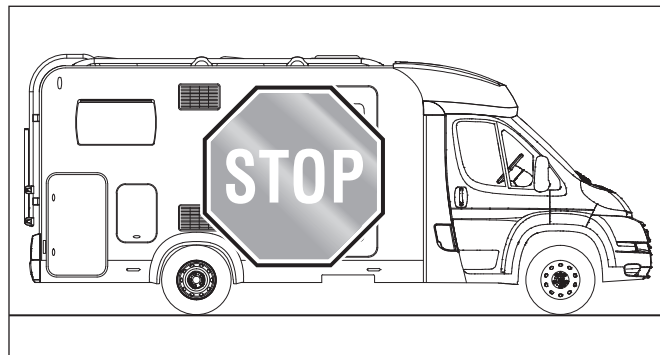
The general inspection can be carried out by the German Technical Surveyance Association (TÜV), the German Engine Vehicle Surveyance Association (DEKRA) or an officially approved expert.



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)
- If necessary remove the 230 V electric cable from the exterior socket.
- If necessary, retract the satellite dish.
- If necessary, slide the TV antenna in as far as possible or retract 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.
- If your mobile home has a rear ladder, fold and secure it.

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.
- Secure the table and, if possible, lower it.
- Turn off interior lights.
- 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.
- If your mobile home has an alcove bed, lock it into its original position.



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 not 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.

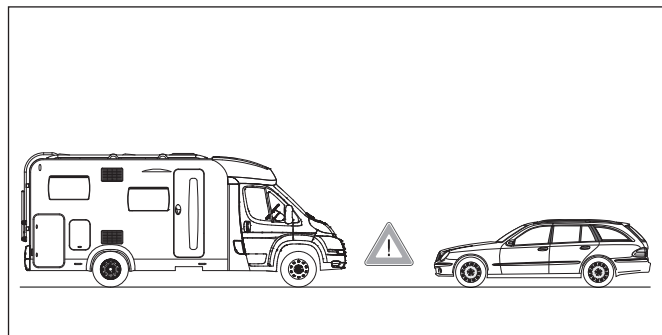
In addition:

- Check your tyre pressure.
- Check all liquids, such as oil, cooling water, brake fluid and windscreen cleaning liquid, and fill them up if necessary.
- Turn off all accelerator devices (heating, refrigerator, etc.) before putting petrol in the tank.

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 the lights (e.g. headlamps, brake and rear lights, blinkers, etc.) working properly?



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.
- Maximum load for the rear external storage locker (if your mobile home has one): 150 kg.

- After loading, use a public weighing facility to check the total weight and axle loads.

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 additional loads evenly and secure them. Excess point loads will damage the floor covering.



- The maximum permissible load for the rear external storage locker is 150 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.
- While driving, passengers may not stay in the alcove or the beds.
- 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 mobile home. Due to the relatively long rear overhang, larger vehicles can swing out and, under adverse conditions, the rear end of the vehicle 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 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.

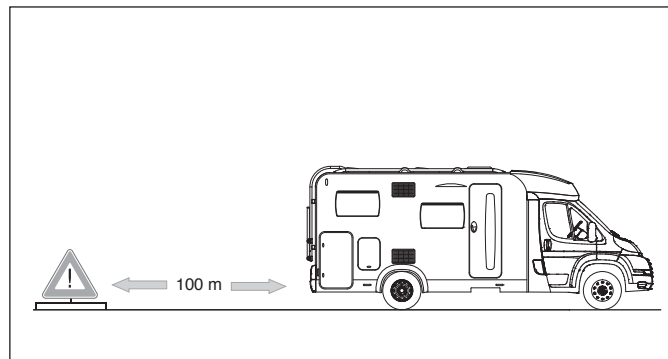
First-aid kit

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!



Vehicle tool kit

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

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.

2.8 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. Leave the water faucets as well as all drain valves open to prevent damage from frost.

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).
- Install an insulation mat between the driver's cabin and the caravan (not included in scope of delivery).
- Open the door as little and as briefly as possible.
- When camping in winter, it is possible to put up a small tent in front of the vehicle as protection against the cold.

Chapter 3: Chassis

3.1 Chassis

The chassis includes parts of the frame and the axles. Please note that the operating licence will become void if any technical changes are made!



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 entered in the documentation for this vehicle, are the permissible maximum towing weight, as well as the technically permissible maximum weight, must 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

The technically permissible maximum weight has been determined according to the specifications made by the Hobby camper manufacturer in connection with the manufacturer of the previous construction stages (FIAT). 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, 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 the fresh water and 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:

	FIAT Siesta, Siesta AK
a) Supply of liquefied petroleum gas	
Number of built-in gas regulators:	1
Weight of an 11 kg aluminium bottle:	5,5
Weight of 11 kg gas inflation (90 %):	9,9
Total:	15,4
b) Liquids	
100 l fresh water tank (90 %)	90
c) Electric power supply	
Cable drum	4
Total basic equipment:	109,4 kg

4. Loading

The additional load is equal to the "technically permissible maximum weight" minus the "weight (mass) when ready to drive". This value must take into account the weights for passengers (conventional load: 75 kg x no. of seats - with the exception of the driver), additional equipment (e.g. additional packages, bicycle carrier(s), tow coupling, air conditioner, awning, etc.) and personal equipment (clothes, leisure articles, food, camping tables and chairs, etc.).

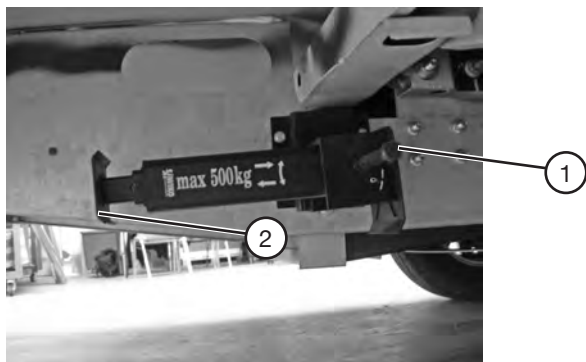


Check to ensure that the masses of all objects transported in the motor home have been taken into consideration, e.g. passengers, additional equipment, basic equipment and personal belongings such as clothes, food, pets, bicycles, surfboards, other sport equipment, etc.).



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

The mass when the vehicle is ready to start includes an additional value for liquids and gas, etc. (see basic equipment). Part of this additional value can also be used for additional loads if, for example, you would like to travel with empty water tanks or without gas bottles.



3.3 Levelling supports *

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

Swinging out the levelling supports

- Place the crank on the hexagon 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 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 (max. 500 kg per support).
- 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

Your motor home has an electric entrance step ①.

Use the switch ② on the inside, next to the entrance door to activate it. Continue pressing the switch until the step has completely folded in or out.



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.



After a slight delay the step will automatically be retracted when the engine is started.



3.5 Vehicle Identification Number (VIN)

The 17-digit vehicle ID number has been applied to the inner wheel case on the passenger's side. To identify it more easily, the VIN can also be found on a label on 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).

Please have the VIN to hand when making any enquiries and on every visit to your dealer.



3.6 Additional pneumatic springs *

Additional pneumatic springs on the rear axle 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.



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.

If the technically permissible maximum weight is increased, the trailer load is reduced to 1,800 and 1,900 kg, respectively. Again, in this case the trailer load cannot be increased.

3.7 Towing fixture *

The maximum towing weight, trailer load and drawbar load are set out in Chapter 13 "Technical Data".



Please ensure that the permissible drawbar load, maximum towing weight and rear axle load for the vehicle are not exceeded, especially when you are loading the rear garage. Simultaneous use of the tow-bar and the 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.

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 Motor Vehicle Registration Certificate Part I to the national vehicle registration authority (Driver & Vehicle Licensing Agency). They will enter the change in the registration document.



Please remember that the tow coupling, motorcycle carrier, pneumatic suspension and/or additional leaf springs must be entered in the registration document.



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 (Comfort-Matic) 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.

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

When driving the mobile home for the first time, please check the tyre bolts after 50 km to ensure that they are tight and, if necessary, tighten any loose bolts; tightening torque: **160 Nm for 15" rims (steel + light alloy) and 180 Nm for 16" rims (steel + light alloy)**. After this, the tyre bolts should be checked regularly that they are securely tightened.

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.

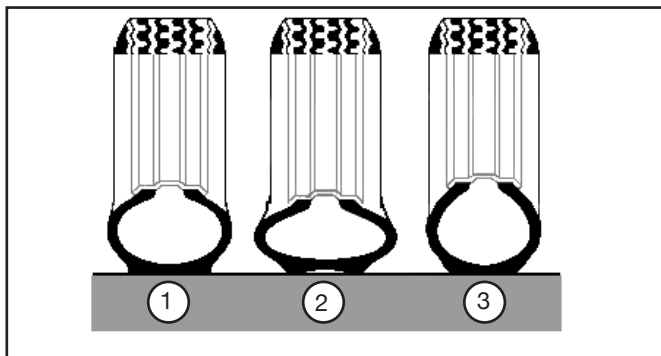


Tubeless tyres have been mounted on your HOBBY motor home. Under no circumstances may tubes be inserted in these tyres!



Winter tires 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 tires that have the "M+S" symbol. You may be fined if you ignore this legal requirement.



4.3 Tyre pressure

The inflation pressure of all tyres 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 (also refer to Table 12.2 Tyre Inflation Pressure).
- 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

Only use the rims noted in the registration documents.
Should you wish to use other rims, please note the following.

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. When using aluminium rims, tyres may not be changed from the front to the back or vice versa.

4.6 Snow chains



Never drive faster than 50 km/h.



Do not use snow chains on snow-free roads.



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.



Ornamental hub caps must be removed before putting on snow chains.



The fast tyre repair kit can be used when the outside temperature ranges from -20°C to $+50^{\circ}\text{C}$.



Please refer to the FIAT manual for instructions on how to use the fast tyre repair kit.



There is an expiry date on the sealant. Therefore, please note this date. It is not possible to guarantee that the tyre repair kit will function properly if the sealant has expired.

4.7 Fast tyre repair kit

Your mobile home does not have a spare tyre. Instead, a fast tyre repair kit is included.

Do not use the fast tyre repair kit if the tyre was damaged by being driven when insufficiently inflated. If the tyre rim is damaged (i.e. if the groove is deformed so that air escapes) it is not possible to repair the tyre. Small punctures, especially in the tyre tread (with a max. diameter of 4 mm) can be sealed using the fast tyre repair kit. Do not remove foreign matter (e.g. a screw or nail) from the tyre.

4.8 Changing a 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 tires. 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 tire, please also observe the vehicle manufacturer's operating instructions.

- Remove the wheel mounting screws and lift off the tire.
- Place the spare tire 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 tire you have removed in the (possibly existing) spare tire holder and then shut the holder.

Changing a tire

- 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.

4.9 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.



In your own interests, you should have the brakes checked regularly by your FIAT repair shop.



Please also note the information regarding FIAT service workshops on page 11-1.

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. Martens often gnaw at rubber hoses.
- Use only brake fluids with the same qualities as those fluids already in the brake circuit.

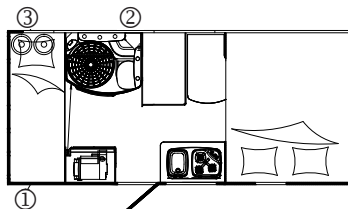


Further information is given in the operating instructions for the FIAT-Ducato.

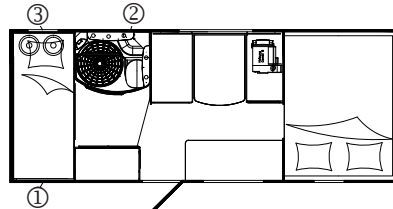
Chapter 5: Exterior Structure

5.1 Overview of tank and service flaps

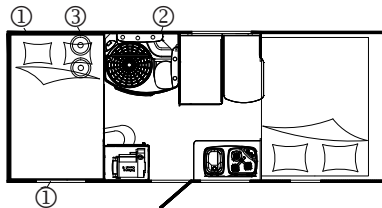
A55 GS Siesta Sport



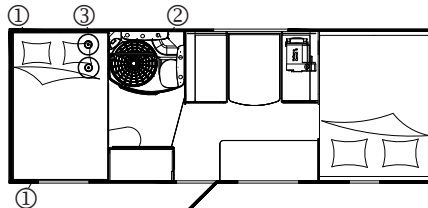
A65 GM Siesta Family



A60 GF

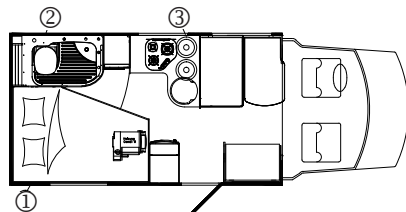


A70 GM

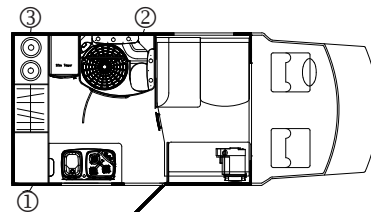


Storage flap ①
Toilet flap ②
Gas box flap ③

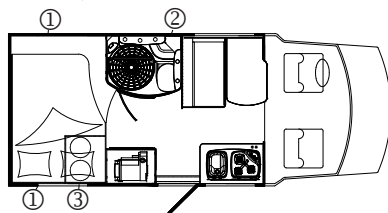
T60 FL



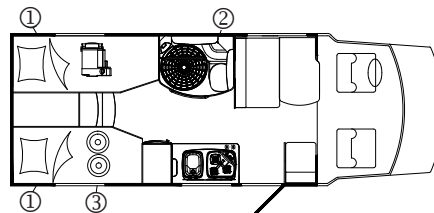
T60 H



T60 GQ

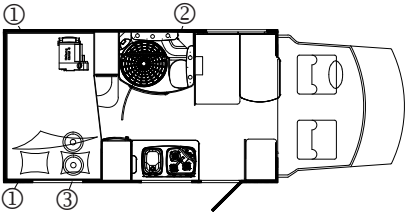


T65 GE

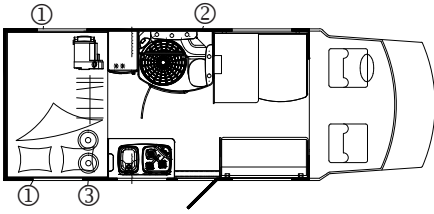


Storage flap ①
Toilet flap ②
Gas box flap ③

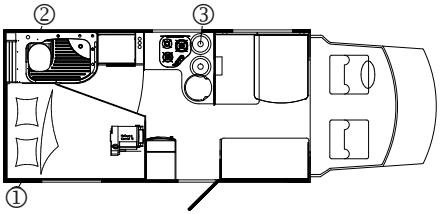
T65 GF



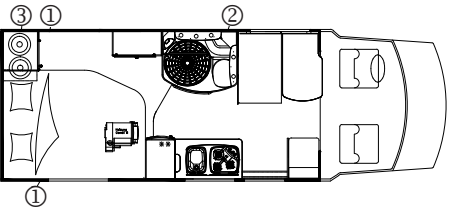
T65 HGF



T65 HFL

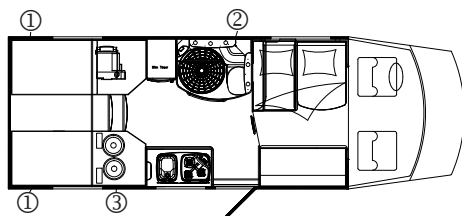


T70 GQ

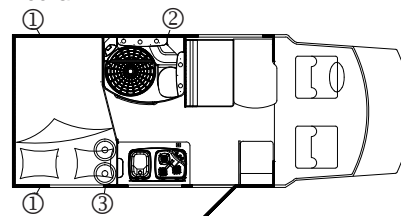


- Storage flap ①
- Toilet flap ②
- Gas box flap ③

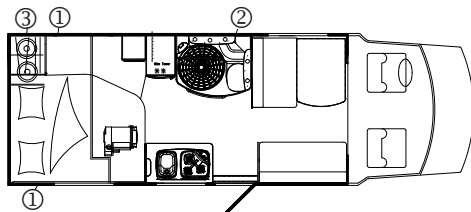
T70 HGE



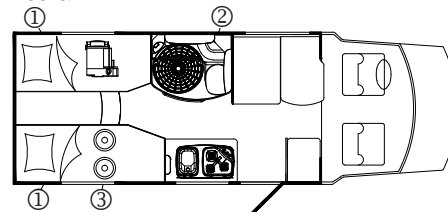
V60 GF



T70 HGQ



V65 GE



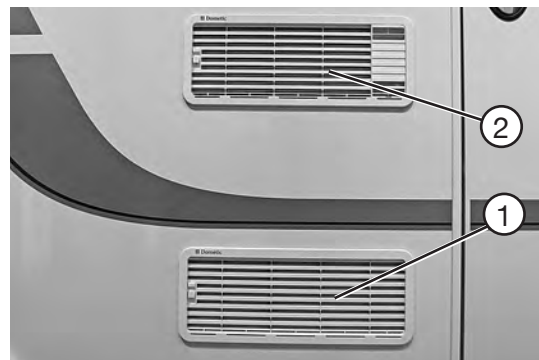
Storage flap ①
Toilet flap ②
Gas box flap ③

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.



Refrigerator

Grates supply the refrigerator with fresh air from outside to ensure sufficient refrigerating capacity. The grate for fresh air intake ① is on the outside wall of the vehicle. The ventilation grill ② is located above the air vents.



Never cover the safety ventilation, not even partially.



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.



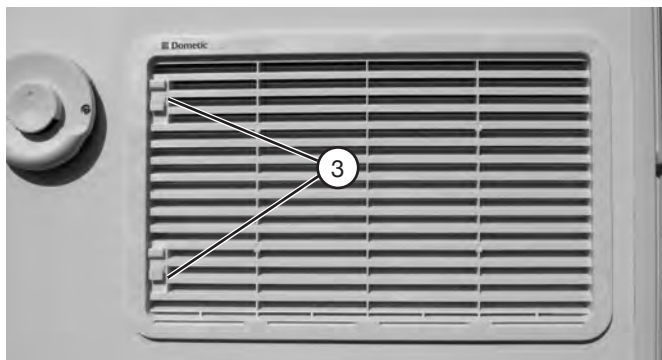
Watery vapour is produced while cooking, from wet clothes, etc. Every person transpires up to 35 g of water per hour. Therefore, depending on the relative humidity, the windows and skylights must be opened for further ventilation (see also "Operating in Winter").



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 grills must remain firmly mounted while driving or when it is raining.

Removing the ventilation grate

- Push the locks ③ as far up as they will go.
- Carefully lift open the ventilation grill 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 supplied with the motor home:

- two keys for the following locks on the basic vehicle:
 - Driver's and passenger door plus fuel tank cap.



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,
 - Gas box flap,
 - Garage flap (model-specific),
 - fresh water filler neck.
- a key that fits the lock for the:
 - rear ladder*



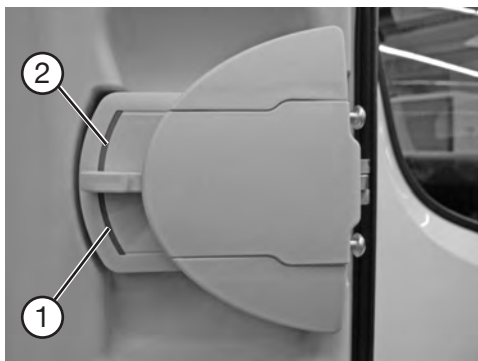
Entrance door external

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.



Entrance door internal

Opening

- Push the bolt down (green section) ①.



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



Closing

- Pull the door shut until you hear it lock.

Locking

- Push the bolt up (red section) ②.



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



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



Garage flap

To open

- Unlatch both locks with the key. The handles will be slightly projected.
- 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 and push the handles in until they click into place.



Flap locks

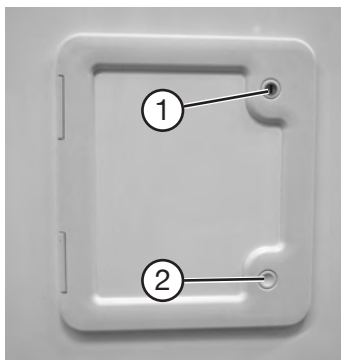
Some of the external flaps can be fastened using the lock on the outside wall of the mobile home.

To lock

- Open the flap all the way.
- Press the nose fastened to the flap into the counterpart on the outside wall of the mobile home. Take care to ensure that it clicks firmly into place.

To unlock

- Pull the nose out of the counterpart.



Toilet flap

Opening

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

Closing

- Press flap until it locks into place.
- Use key to lock flap ①.

Gas-bottle Container Flap



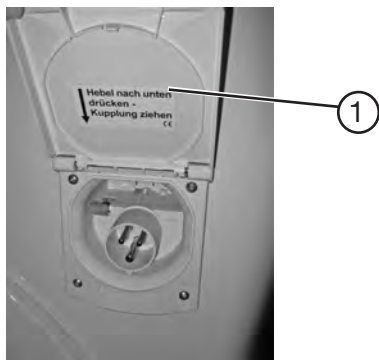
The ventilation grill of the gas-bottle container flap must not be closed or covered.

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.



Exterior socket

Opening

- Take hold of the bottom of the cover flap ① and pull it upwards.

Closing

- Push cover flap ① down until you hear it lock into place.



Exterior gas supply *

The external gas socket ② is used to provide equipment that requires gas, such as a gas barbecue or gas lamp, with gas outside the mobile home.

Opening

- Hold the flap ① by the latch and pull it up.

Closing

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



Fresh water filler neck

Opening

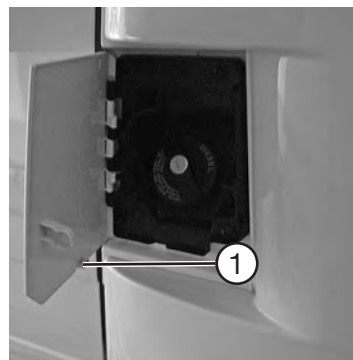
- Hold the flap by the latch ① and pull it up.
- Use key to unlock ②.
- Give the blue cap ③ a strong turn counter-clockwise and remove it.

Closing

- Put the blue cap ③ back on and turn it clockwise to shut it.
- Use key to lock ②.
- Hold the flap by the latch ① and close it until it clicks into place.



Never fill diesel into the fresh water tank.



Petrol filler neck

The black petrol cap is covered by a flap located on the left side of the vehicle behind the driver's door in the lower section of the B-pillar.

Opening

- Open the flap by placing a finger in the notch ① and pulling out/forwards.

Closing

- Push the flap until it locks.



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



5.4 Rear ladder *

The rear ladder is used to ascend to the roof of the mobile home, e.g. to load the roof rail.

A lock on the lower part of the rear ladder prevents it from being unfolded unintentionally.

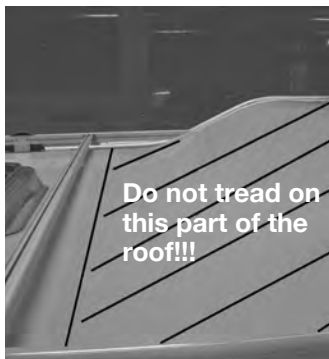
To unfold

- Turn the key 90° clockwise. The locking pin will project slightly.
- Unfold the ladder until the feet are securely on the ground.
- Turn the key back and remove it.



To fold

- Fold the ladder up.
- Turn the key 90° to the right.
- Press the locking pin; this locks the ladder into place.
- Turn the key back to an upright position and pull it out.



The following applies for the roof load

The roof has not been made for concentrated loads. Place a large-scale cover over the area you wish to step on before standing on the roof. Materials with a soft and smooth surface (such as a large piece of styrofoam) are suitable for this purpose.

- Do not step too close to the roof bonnets or the air conditioning systems on the roof (stay at least 30 cm away).
- Do not step on the rounded areas at the front and rear ends of the caravan.



The maximum total load for the roof rail is 80 kg!



Be careful when standing on the roof. There is a great danger that you will slip if the roof is wet or icy.



Before driving, the read ladder must be folded up and locked.



- 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.

Roof rail

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 total load for the roof rail is 50 kg.



5.5 Bicycle carrier *

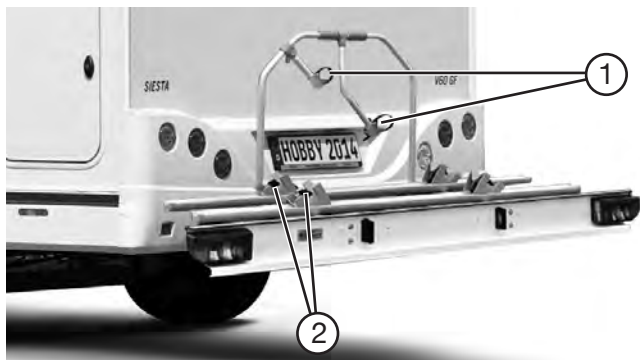
The motor home's handling when driving is significantly different when the bicycle carrier is in use. The driving speed should be adjusted accordingly to take this into consideration:

- The driver is responsible for the secure fastening of the bicycles. Even when unloaded and folded up the carrier must be secured using the clips provided.

- Ensure that the existing lighting equipment is not completely or partially obscured by any loads.



The maximum permissible loads for bicycle carriers are 50 kg (for partly integrated models) and 60 kg (for alcoves), respectively.



5.6 Velo eBike Carrier *

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.



Ensure that the electric connection via the 13-pole plug is not broken when the eBike carrier is folded up; otherwise, the illumination devices will not function properly.



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 *

Depending on the model, your mobile home has an awning that is attached either to the roof or to the side wall.



- 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

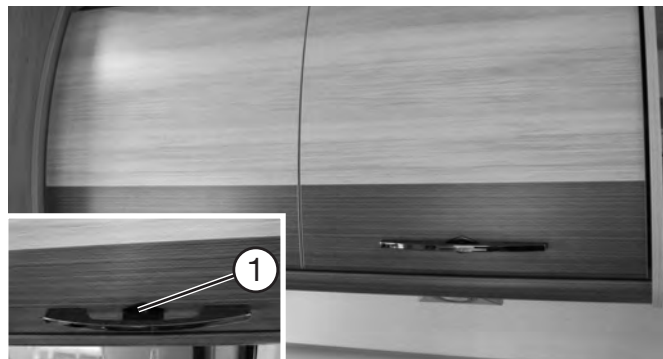
- Retract the telescopic rods, fold them up and secure them.
- Insert the hook on the crank into the grommet on the winding mechanism.
- Turn the crank anti-clockwise until the awning has been fully retracted and is secured.
- Remove the crank and store it in the vehicle.



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



Stowage and kitchen wall cabinets

Opening

- Press the top of the pushbutton ① to unlock the flap.
- Pull on the handle until the flap opens.

Closing

- Use the handle to press the flap shut until you can feel it close and lock.



Furniture doors with handle

Bath room door

- Push the handle to open and shut the door.



Furniture doors with turning knob

Wardrobes

- Turn the knob to open or shut the door.



Doors with push locks

Shoe compartment, kitchen drawers

Opening

- Depress the push lock until the knob pops out.
- Pull gently on the handle and the door will open.

Closing

- Use the handle to push the door shut.
- Depress the push lock until the knob locks into place and the door is fastened.



Sliding doors

Washroom cabinet

Opening

- Grasp the handle of the sliding doors and push them open.

Closing

- Grasp the handle of the door and push it closed until it clicks into place.



6.2 Television holder for flat-screen monitor

To unlock, press the metal rail ① and, at the same time, extend the TV mount. 230 V power sockets and an aerial socket for the TV and/or receiver are located directly adjacent to the holder.



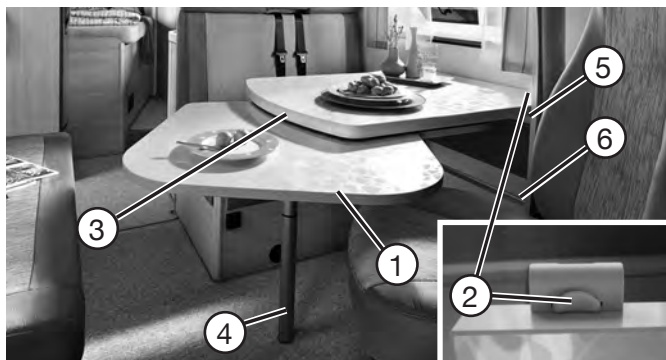
Lock the media unit or TV holder before driving.



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.



In order to use the TV, the hand brake must be on.



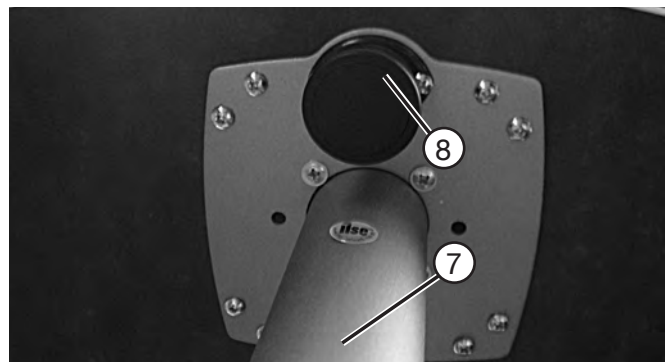
6.3 Tables

Hanging table

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

To lower

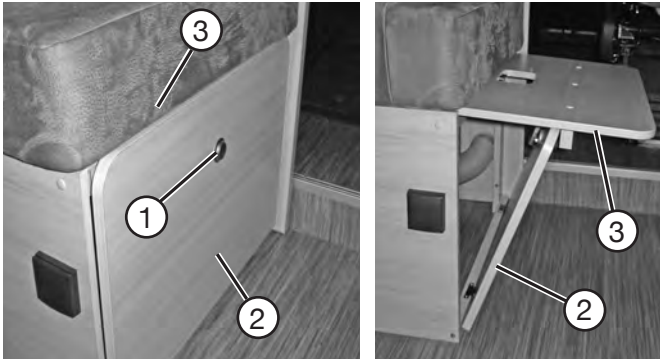
- Fully retract the lower, pivotable table top ① until it locks into place by itself.
- Press the lock ② down
- Raise the front end of the table top ③ by approx. 30°.
- Pull down the lower section of the table foot ④ and remove it.



- Pull the table top out of the upper wall bracket ⑤.
- Hook the table top into the lower wall bracket ⑥. The lock must move up to lock into place.
- Place the shortened supporting leg ⑦ at the front edge of the table top on the floor.

To swivel out

- Pull the locking pin ⑧.
- Swivel the lower table top ① to the desired position.

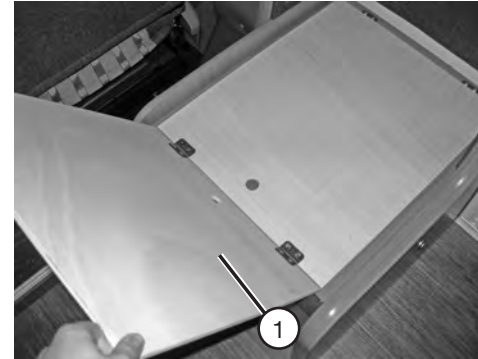


6.4 Bed conversion

The seating arrangements can be converted to beds.

Conversion

- Remove the seat and back cushions.
- Lower the table.
- Undo the lock ① on the bed expansion.
- Place the outer plank ② of the bed expansion on the floor.
- Raise the inner plank ③ approx. 15° above the horizontal position.
- Wedge the outer plank ② in a 45° angle (approx.) beneath the inner plank ③ to support it.
- Place the cushions on the bed according to the following diagrams.



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 hanging table (to do this, the lower table top must be swung out).
- Fold the cushion ① cover forward by 180° and place it on the pillared table.



6.5 Washroom with Sliding Wall

You can slide the washroom Wall in the SiestaT60 FL and T65 HFL models in order to use the shower.

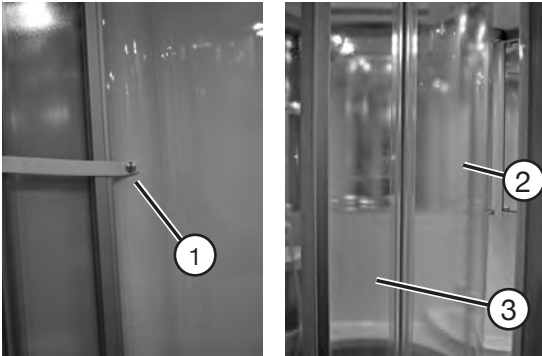
- Push the wash basin along the guide rail towards the toilet.



- Extend or unfold the shower walls.
- Put everything back into place by folding in the shower walls and pushing them back.
- Push the wash basin wall back to its original position.



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



Ensure that the shower door does not cover the hot air outlet nozzle when the heating is on.

Fixed shower doors *

As an option, the wash room can be equipped with a fixed shower door instead of a shower curtain.

Vorbereitung

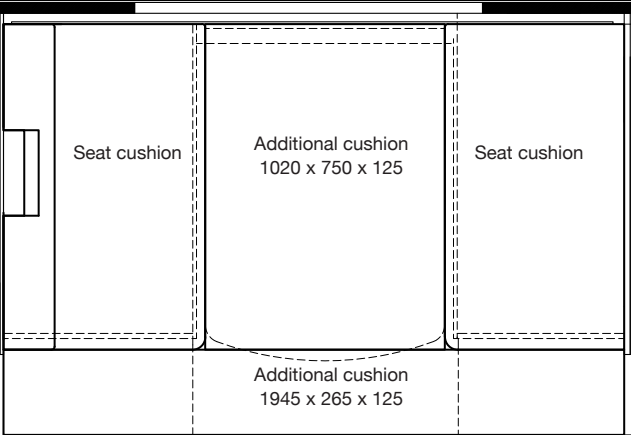
- Release the locks on the rounded doors and the folding door ①.
- Connect the rounded doors ② and the folding door ③ in order to create a separate shower cabinet.



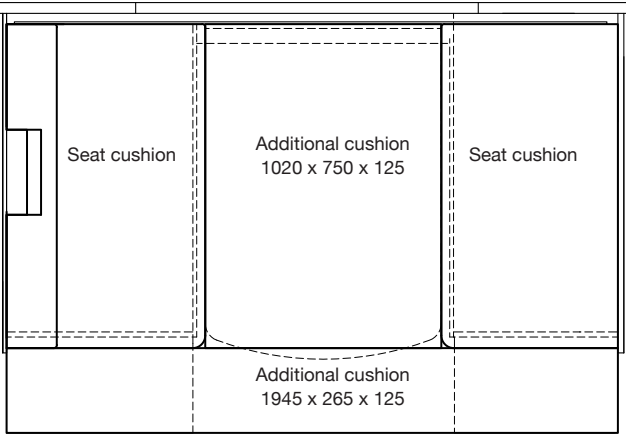
While driving, the fixed shower doors must be locked into their original position.

6.6 Rearranging
the cushions

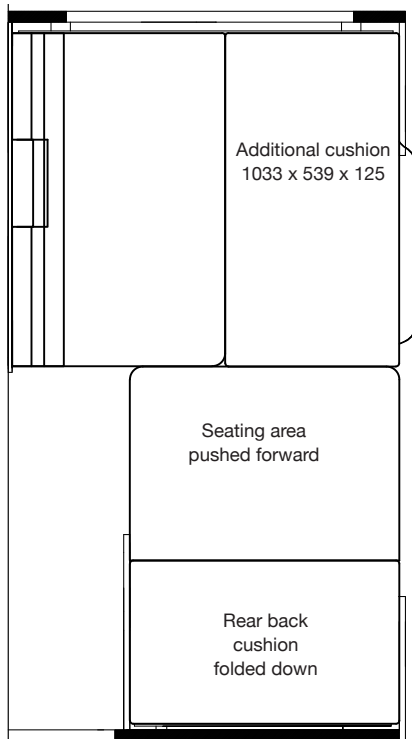
Rearranging the cushions
A65 GM Family



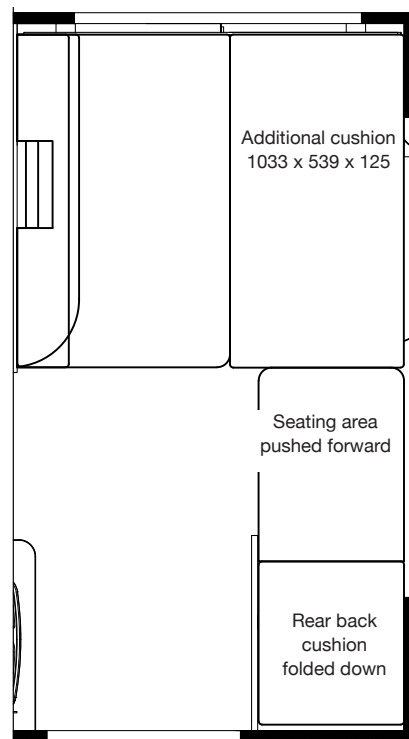
Rearranging the cushions
A70 GM

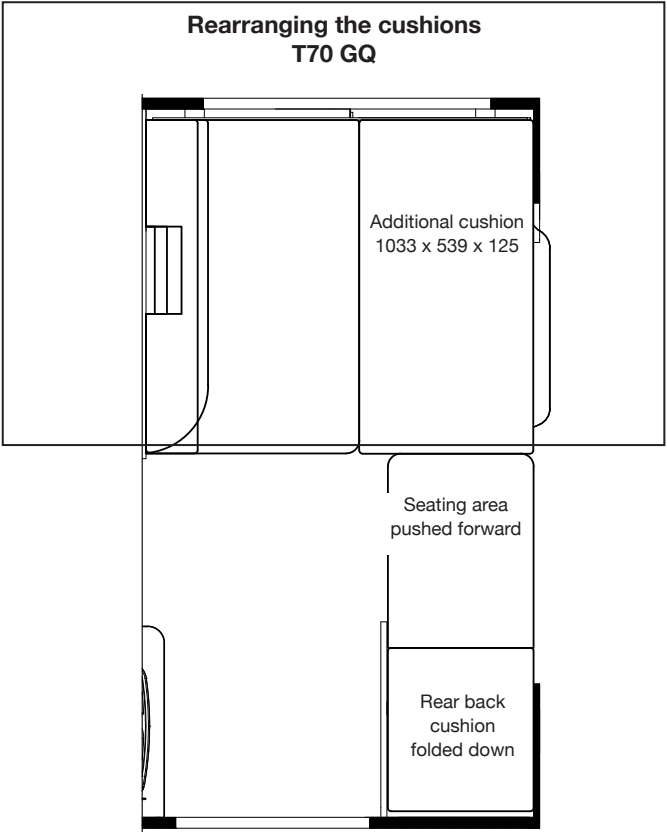
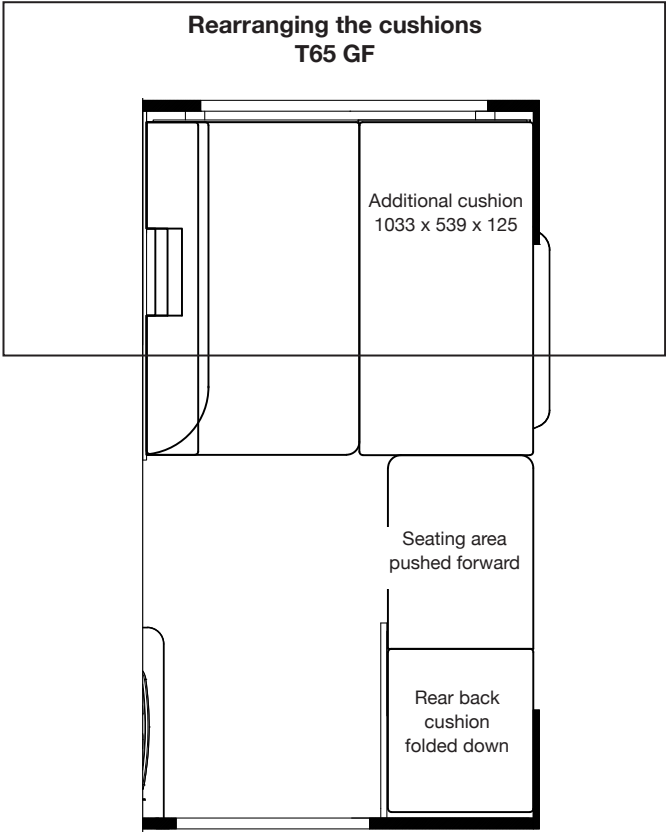


Rearranging the cushions T60 FL

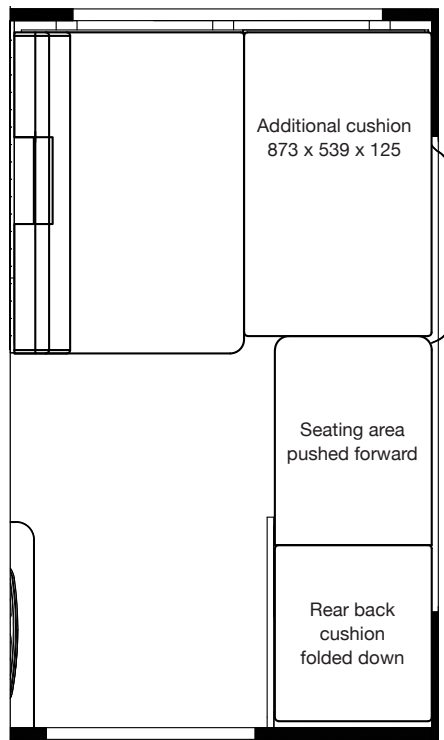


Rearranging the cushions T65 GE

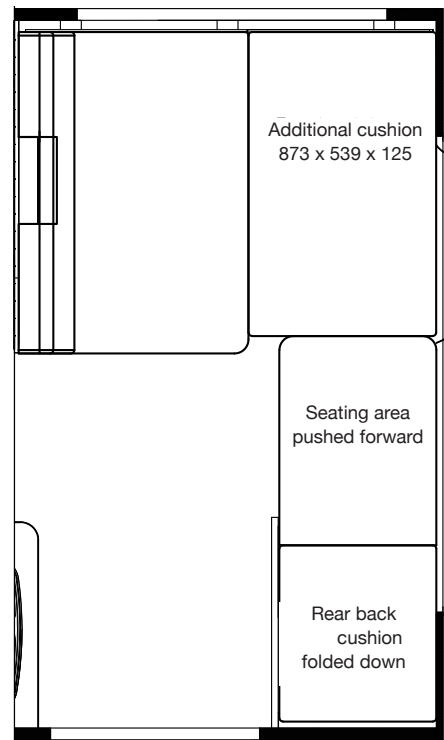


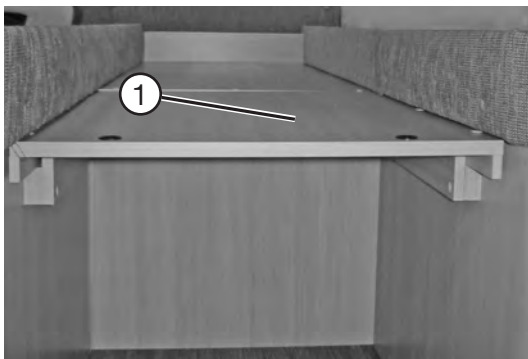


Rearranging the cushions V60 GF Van



Rearranging the cushions V65 GE Van

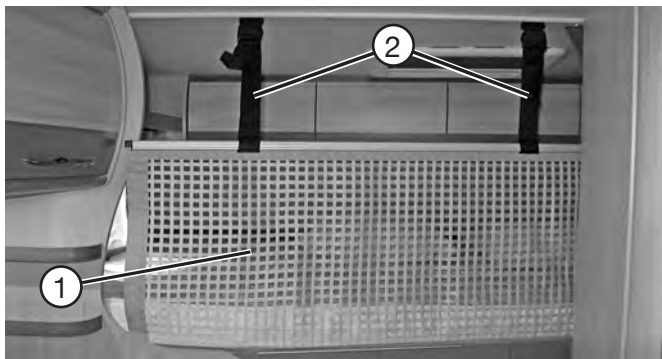




6.7 Widening the Beds *

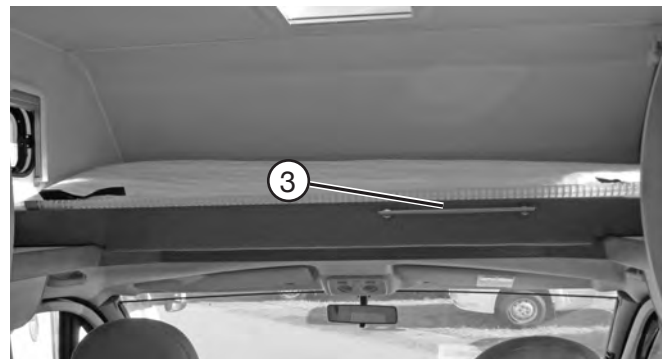
In models with individual beds above the garage, the two beds can be joined by widening the beds.

- Insert the extension plank ① into the rails.
- Then insert the mattress ② provided for this purpose in the space for widening the beds.
- Hang the ladder in the designated holes.



6.7 Alcoves/queen-size bed, crossways/Alcove bed

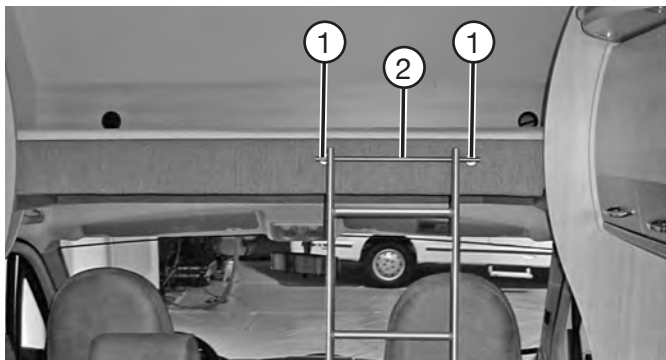
Parents are responsible for ensuring that small children do not fall out of upper berths. If there are small children in the alcove, elevated queen-sized beds above the garage or on the alcove beds, the safety nets ① must be pulled up and fitted in the brackets ② as a protection against falling out.



The floor of the alcove can be pushed together for a more comfortable sitting position. Use the mounted handle ③ to push it forwards.



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



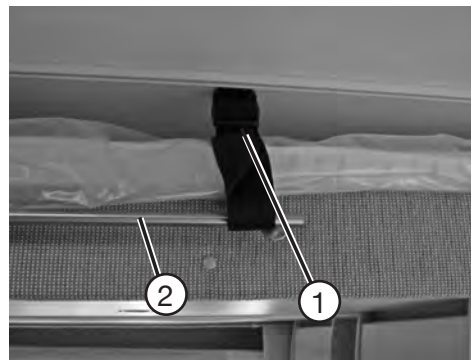
Access ladder

Ladders are used to access alcoves, upper bunk beds and beds at the rear end of the mobile home (model-specific).

- Hook the upper end of the ladder firmly into the handle provided or behind the metal rail (model-specific).
- Place the ladder firmly on the floor.



Ensure that the ladder cannot slip.



Alcove Bed, Mechanical *

To operate

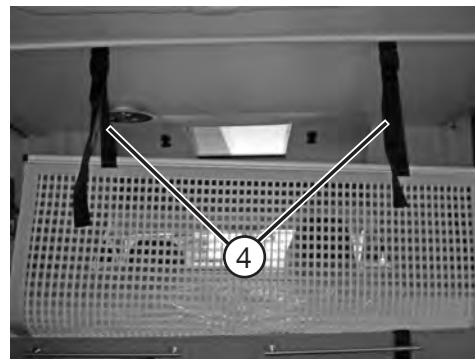
- Remove the backs and head rests from the seating bench.
- Switch off the lighting underneath the alcove bed.
- Release the lock ① for the alcove bed.
- Use the handle ② to pull the alcove bed down as far as it will go.



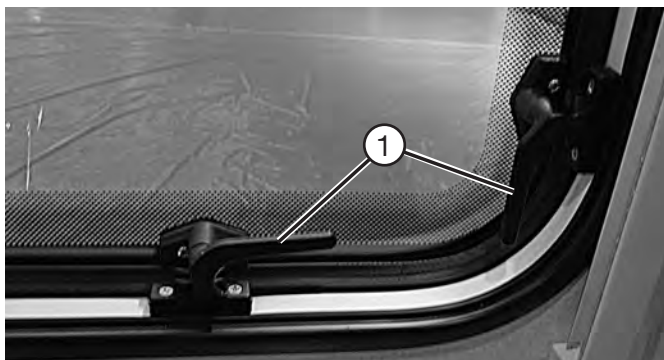
- Hand the ladder ③ in the handle.



- Maximum load for the alcove bed: 200 kg



- When sleeping, always clip the netting that protects you from falling out ④ into place (located underneath the mattress).
- Before driving, return the alcove bed to its original upright position and lock it into place.



6.9 Windows

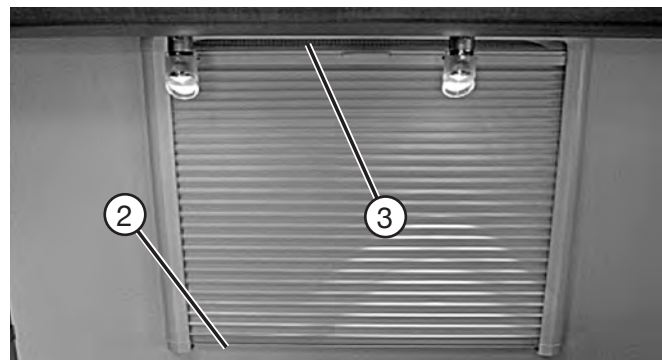
Knockout windows with locking hooks

Opening

- Turn the latch by 90°.
- Press the window latch outwards until you hear it 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.
- Turn the latch to the original position so that it clasps behind the brackets and pull the pane into the seal.



Sunshade/insect screen

Sunshades and insect screens are integrated in the window from and fully adjustable.

Closing

- Move the handle for the sunshade ② or the latch for the insect screen ③ slowly and evenly to the desired position.

Opening

- Push the shade up slowly and evenly.

**To combine**

- Pull the sunshade down slowly and evenly, then pull the insect screen down to the desired position.

**Skylight ***

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



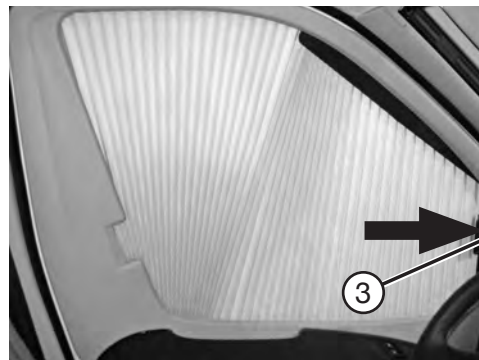
6.10 Dimming system for driver's cabin *

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

- Press the locks ① together to open the locking mechanism.
- Press the clasp ② together in the middle. The magnetic lock will automatically lock.

Side system

- Press the locks ① together to open the locking mechanism.
- Draw the clasp ③ across to the rabbet. The magnetic lock will automatically lock.

6.11 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.



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.

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.



Swivelling seats

- Pull the armrests (model-specific) up.
- Release the lever to swivel the seat. The seat will be released from the locking position.
- Swivel the seat to the desired position.

6.12 Seats in the driver's cabin



Please refer to the operating instructions of the basic vehicle for information on operating these.



- 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.



Movable passenger seat (model-specific / optional extra)

In some models (e.g. A60 GF) the passenger seat can be turned and pushed sideways toward the centre.



Changing the position

- Pull the lever ① up and hold it tight.
- Push the seat toward the centre of the vehicle.
- Turn the seat to the desired position and release the lever ①.



While driving, the driver's seat must be in the original position; the lock must click noticeably when the seat is returned to this position.



6.13 Construction of the seats

Cushion fastenings

Seat cushions are held in place by an anti-slip mat. The back cushions are fastened with Velcro.



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



6.14 Seatbelts in the caravan

The seating arrangements are 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.
- 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

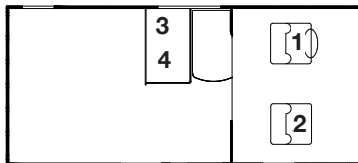
- Press the button on the lock of the seatbelt to unlock the tongue.



- 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.

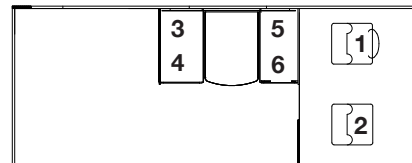
6.15 Overview of the seating arrangements

A55 GS Sport



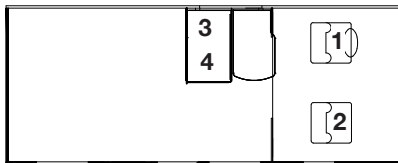
Seats 1 - 4: may be used while driving.

A65 GM Family



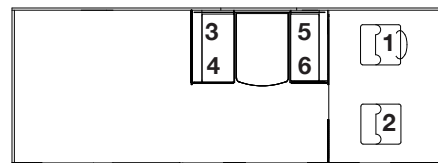
Seats 1 - 6: may be used while driving.

A60 GF



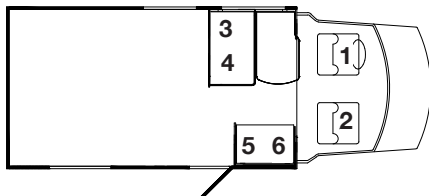
Seats 1 - 4: may be used while driving.

A70 GM



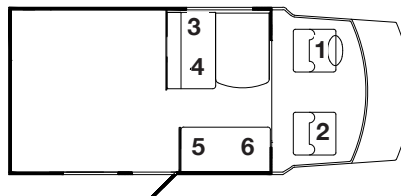
Seats 1 - 5: may be used while driving
 Seat 6: may be used while driving if the permissible
 maximum weight = 3650kg / 4250kg

T60 FL



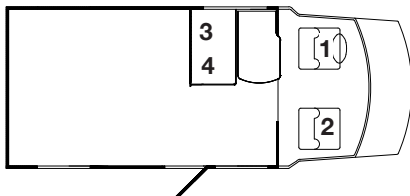
Seats 1 - 4: may be used while driving.
Seats 5 - 6: must not be used while driving.

T60 H



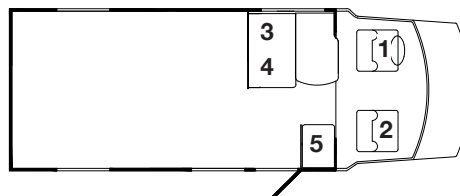
Seats 1 - 4: may be used while driving.
Seats 5 - 6: must not be used while driving.

T60 GQ



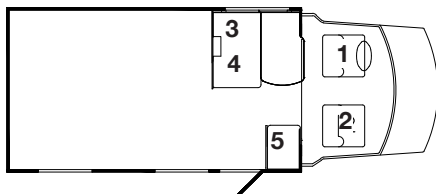
Seats 1 - 4: may be used while driving.

T65 GE



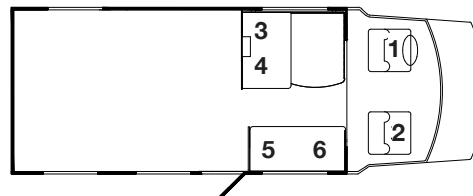
Seats 1 - 4: may be used while driving.
Seat 5: must not be used while driving.

T65 GF



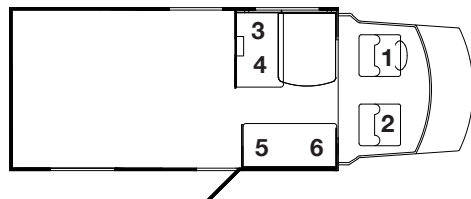
Seats 1 - 4: may be used while driving.
 Seat 5: must not be used while driving.

T65 HGF



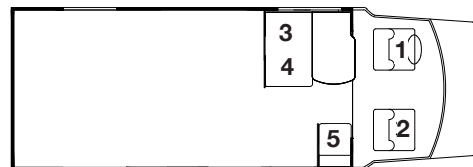
Seats 1 - 4: may be used while driving.
 Seats 5 - 6: must not be used while driving.

T65 HFL



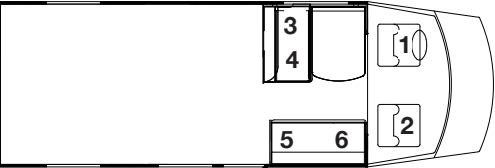
Seats 1 - 4: may be used while driving.
 Seats 5 - 6: must not be used while driving.

T70 GQ



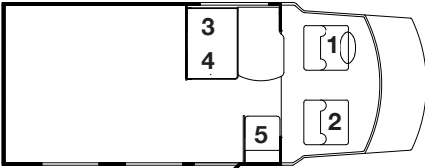
Seats 1 - 4: may be used while driving.
 Seat 5: must not be used while driving.

T70 HGE



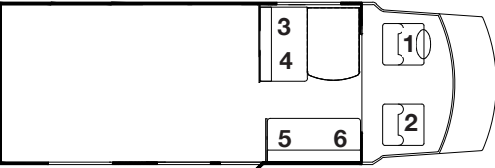
Seats 1 - 4: may be used while driving.
Seats 5 - 6: must not be used while driving.

V60 GF



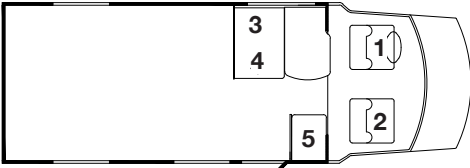
Seats 1 - 4: may be used while driving.
Seat 5: must not be used while driving.

T70 HGQ



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

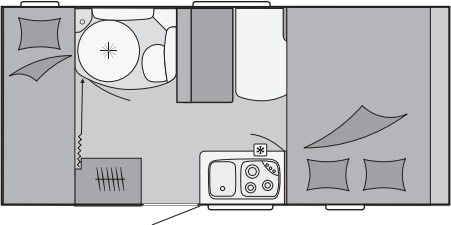
V65 GE



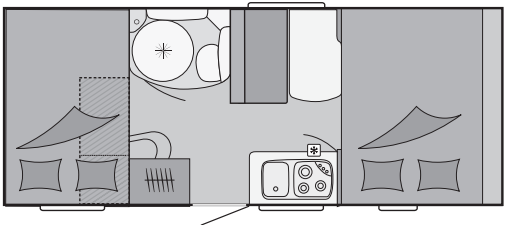
Seats 1 - 4: may be used while driving.
Seat 5: must not be used while driving.

6.16 Overview of day and night positions

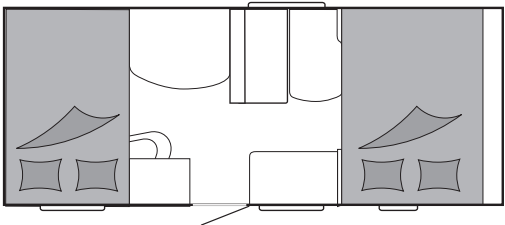
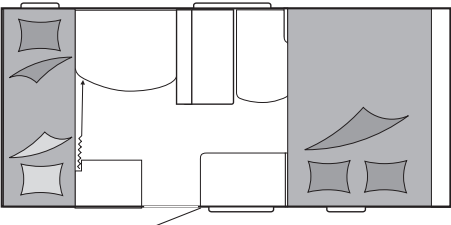
A55 GS Sport



A60 GF

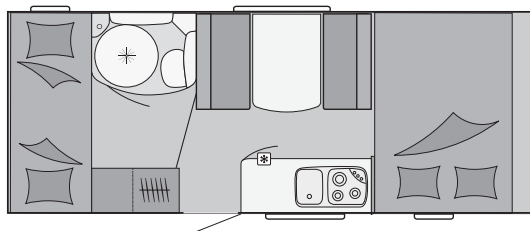


Day position

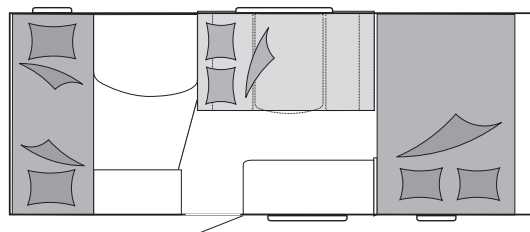


Night position

A65 GM Family

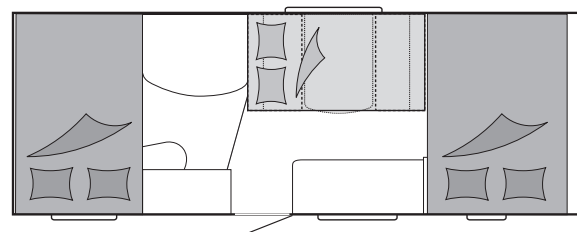
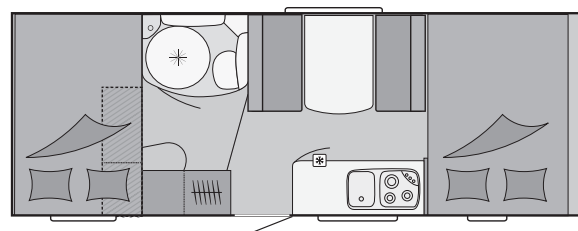


Day position

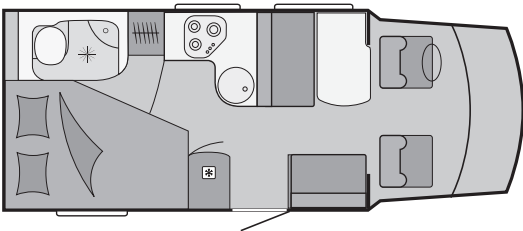


Night position

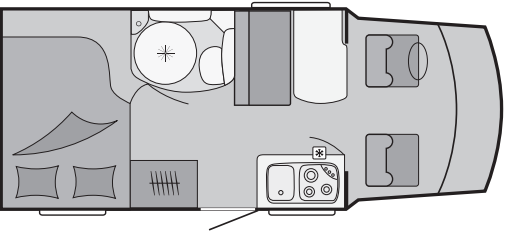
A70 GM



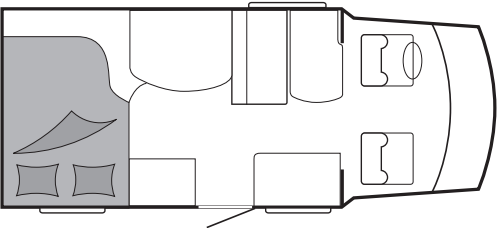
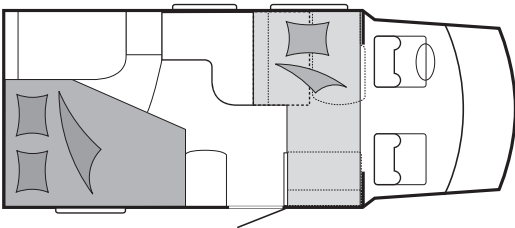
T60 FL



T60 GQ

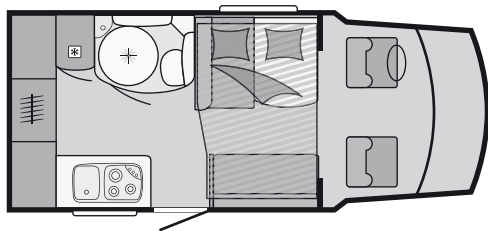


Day position

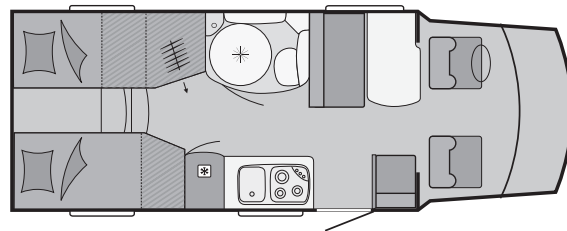


Night position

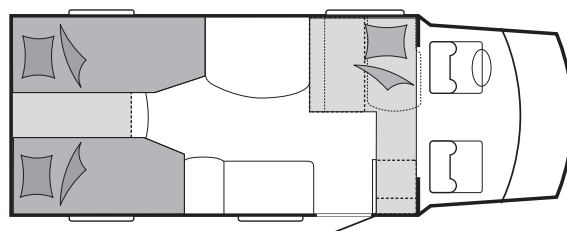
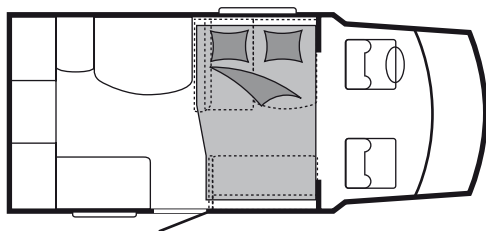
T60 H



T65 GE

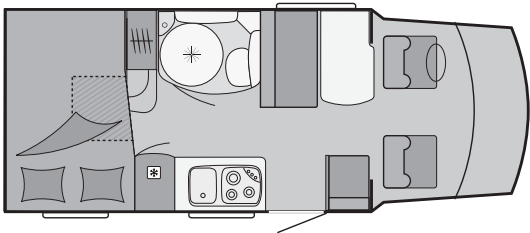


Day position

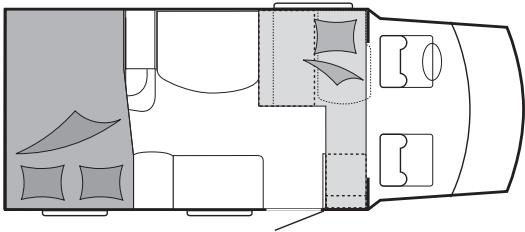


Night position

T65 GF

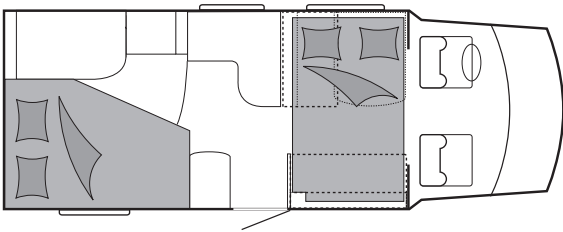
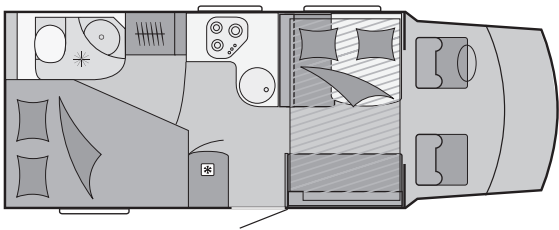


Day position

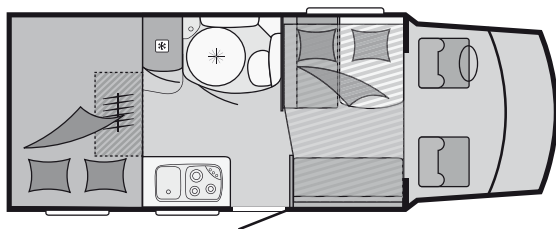


Night position

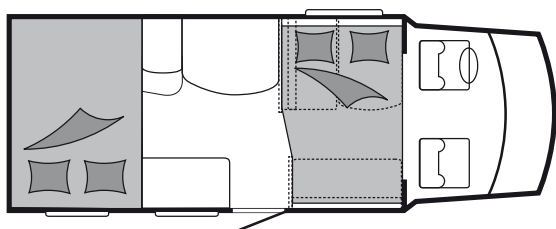
T65 HFL



T65 HGF

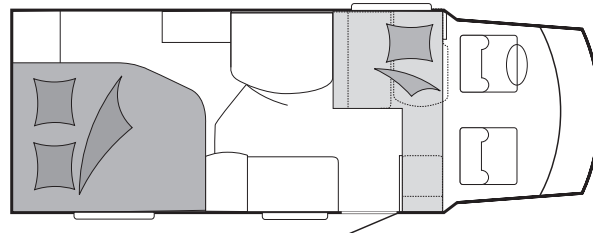
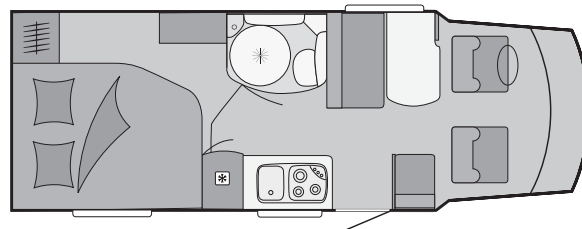


Day position

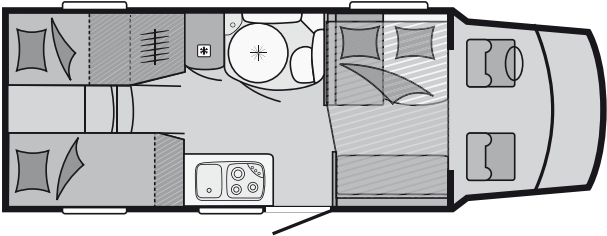


Night position

T70 GQ

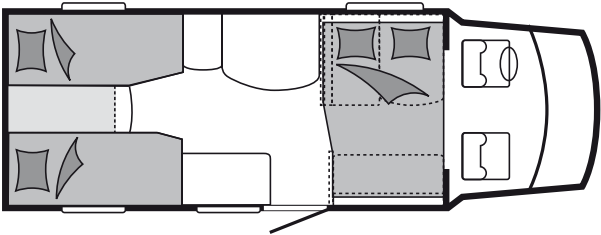
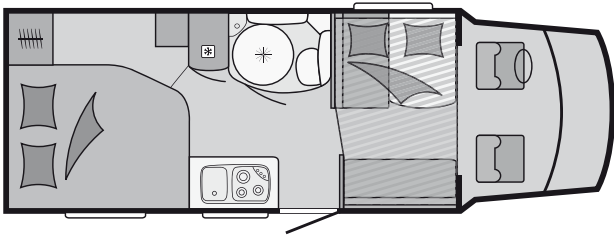


T70 HGE

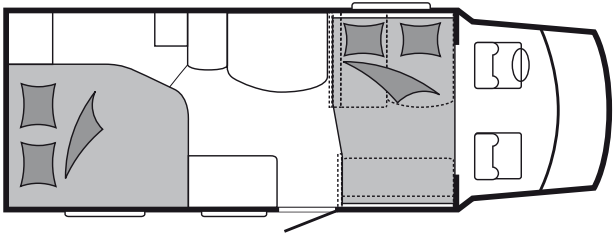


Day position

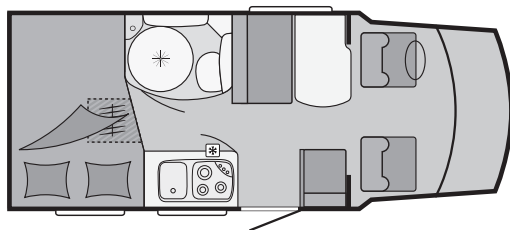
T70 HGQ



Night position

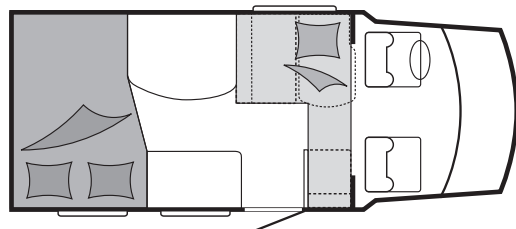
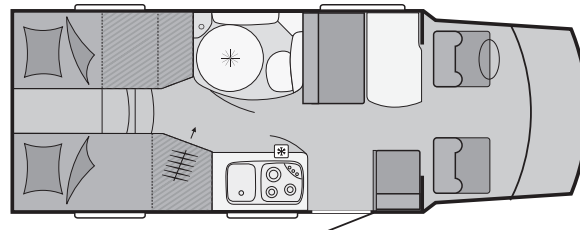


V60 GF

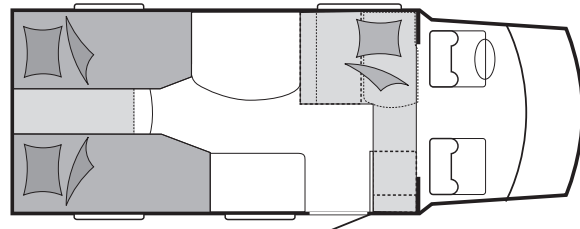


Day position

V65 GE



Night position



Chapter 7: Electrical Installations

7.1 Safety instructions

The following must be observed:

- 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

Electricity is provided by means of the 92 Ah AGM modular battery together with an automatic battery charger.

Main elements of the electrical system

- **CONTROL PANEL – PC-220 HB**
Controls the electrical consumers and shows their status.
- **12V DISTRIBUTION MODULE -**
Master relay, battery parallel relay (12V - 70A), refrigerator relay, charging device B1, safety fuses,
- **BATTERY CHARGING DEVICE -**
Charges the battery in buffer operation.
- **ELECTRIC PROBE -**
Measures the contents of the fresh water tank in %.
- **PROBE WITH SCREWS -**
LED display shows when waste water tank is full.
- **MODULAR BATTERY WITH CIRCUIT BREAKER -**
Supplies all consumers.
- **VEHICLE BATTERY**
- **GENERATOR -**
Loads both the vehicle and consumer batteries at the same time.
- **230 V AUTOMATIC CIRCUIT BREAKER WITH AN EARTH LEAKAGE CIRCUIT BREAKER –**
Supplies and protects the 230V consumers.
- **50A FUSES VEHICLE/ and ANCILLARY BATTERIES**

Advice and instructions

Important

- Any changes to the electrical installations may only be carried out by a professional electrician.
- Open battery circuit breaker and switch off 230V mains before carrying out 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.
- AGM batteries do not require maintenance, but they do need a constant charge.
- Check that the clamps have been properly fitted and, if necessary, remove any layers of oxide.
- Unclamp the negative terminal if the ancillary battery is not being used for a long period of time (more than 1 - 2 months). Even if the battery circuit breaker is interrupted, the battery will still be weakened by self-discharge.

- Should the ancillary battery be removed, isolate the plus pole (to prevent short circuits when turning on the motor).

Battery charger

- The charger's capacity is 220 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

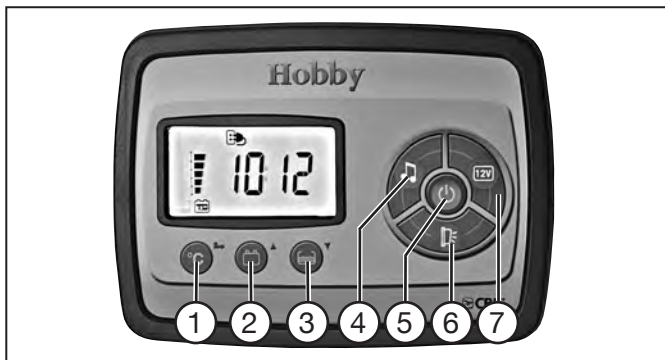
- To avoid incrustations, particularly in the waste water tank, never let the water in the tanks stand for too long. Flush the tanks regularly.

230 V automatic circuit breaker

- To switch off the power supply for the entire system set the main switch to "0"(OFF).
- Only connect and disconnect the system to the 230V external mains when the main switch is turned 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.



Control Panel PC-220 HB

The standard display shows the time, filling level of the fresh water tank and capacity of the ancillary battery.

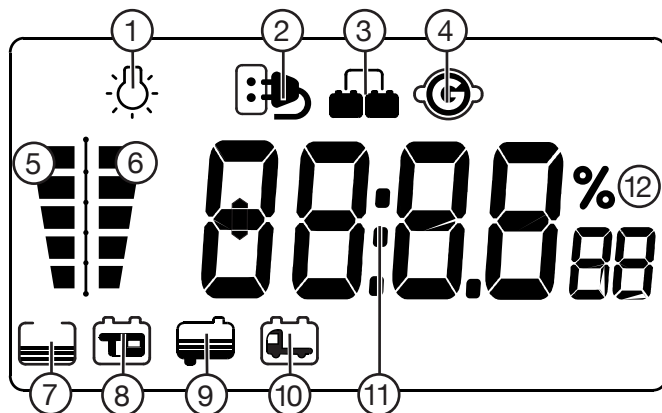
Legend

- ① Button for monitoring the inside and outside temperature as well as for programming the system. Press on the button to switch from the display for the inside to the outside temperature and back again.
- ② Button for monitoring the voltage of the ancillary and the vehicle battery as well as for programming. Press on the button to switch from the display for the voltage of the ancillary to the voltage of the vehicle battery and back again.

- ③ Button for monitoring the fresh water tank in “%” as well as for programming.
- ④ Button for switching the radio on and off*
- ⑤ Main ON / OFF button (press for approx. 2 seconds to switch on or off).
- ⑥ Button for the light in the outer tent.
- ⑦ Button for switching all 12V electrical devices on and off simultaneously. If it has been switched off, the control panel for the lights cannot be operated.



Power for the clock is supplied by the ancillary battery. If the ancillary battery has been disconnected, the clock can continue to function - **without displaying** - for up to two weeks.



Main control panel display

Legend

- ① Indicates that the protection against deep discharge has been activated.
- ② Display: 230V mains connection.
- ③ Display: charging of the battery using the motor or the external mains.
- ④ Display: vehicle's motor has been started.
- ⑤ Display: filling level of fresh water tank.
- ⑥ Display: voltage of ancillary battery..
- ⑦ Blinking icon indicates empty fresh water tank.
- ⑧ Blinking icon indicates empty ancillary battery.
- ⑨ Blinking icon indicates full waste water tank.
- ⑩ Blinking icon indicates empty vehicle battery.

- ⑪ Displays the time or the selected function.
- ⑫ Displays the units of measurement.

Functions



Vehicle battery alarm

A blinking icon displays alarm if the voltage of the vehicle battery drops below 12V. The alarm ends when the voltage is higher than 12.5V.



Ancillary battery alarm

A blinking icon displays alarm if the voltage of the ancillary battery reaches 11.5V and a short beep will be heard.

A blinking icon displays alarm if the voltage of the ancillary battery reaches 10.5V and two short beeps will be heard.

The alarm ends when the voltage is higher than 12.5V.



Protection against deep discharge (battery protection)

An electronic device for protecting the battery switches off all of the 12V electrical devices when the ancillary battery is empty. This will happen when the battery reaches 10V; the following devices will be switched off:

- water pump
- lighting group
- light in the outer tent
- heating system.

The alarm is displayed visually by means of the icon. 

Press the main ON /OFF button  to switch all of the electrical devices back on for one minute.

The control panel will switch off automatically when the voltage is less than 9.5V.

If the voltage is higher than 13.5V, all of the electrical devices except the refrigerator, entrance step and aux output will automatically be switched back on.

Tanks

1. Fresh water tank with electronic tank probe.

The display is shown in “%” as:

- a numerical display (in steps of 10%), 

- and as a graph.



2. Waste water tank with screw sounding rod



Fresh water tank alarm

A blinking icon displays alarm if the filling level of the fresh water tank drops below 10% and a short beep will be heard (only if the motor has been switched off).

The alarm ends when the filling level is higher than 20%.



Waste water tank alarm

A blinking icon displays alarm if the filling level of the waste water tank reaches the screw sounding rod and a short beep will be heard (only if the motor has been switched off).

Digital clock

To set the clock, please refer to the section on “Programming”.

Automatic switch-off of the outer tent light

When the motor is running, the outer tent light is switched off automatically.

Temperature

The inside and outside temperature is measured by means of temperature sensors attached inside and outside the vehicle.

The temperature measured is accurate by $\pm 1^{\circ}\text{C}$.

Programming



Press the button (when the clock is displayed) for longer than 2 sec. in order to switch to the programming menu.



Press the arrow keys to select the desired menu



- „TIME” to set the clock
- „FULL” to set all of the parameters



and then press the button to confirm your selection.



Change the selected parameter by pressing the arrow keys and then press the button to confirm your selection.

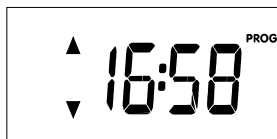


Upon confirmation, the next parameter will automatically be displayed.



Press the button several times to save your changes and exit from the main menu.

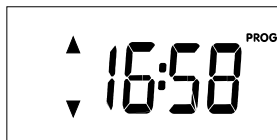
“TIME” menu



To set the clock

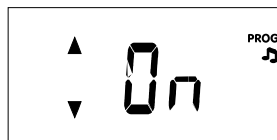
- HOURS (clock display blinks)
- MINUTES (minutes blink)

“FULL” menu



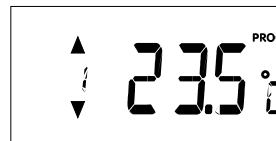
To set the clock

- HOURS (clock display blinks)
- MINUTES (minutes blink)



Acoustic alarm signals

- ON (to activate)
- OFF (to deactivate)



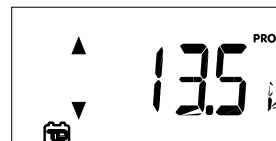
Inside temperature

Sets the inside temperature in increments of 0.5°C.



Outside temperature

Sets the outside temperature in increments of 0.5°C.



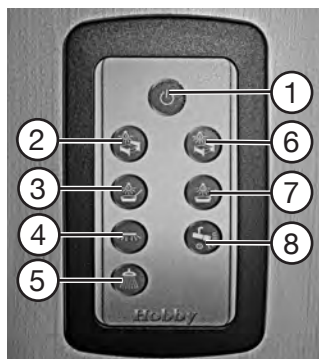
Ancillary battery

Sets the voltage of the ancillary battery. Max. value $\pm 0.5V$ in increments of 0.1V.

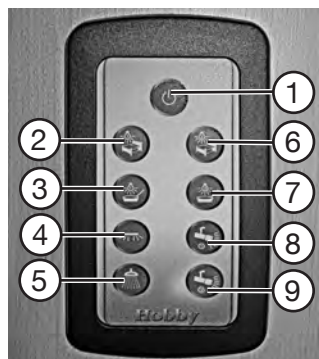


Vehicle battery

Sets the voltage of the vehicle battery. Max. value $\pm 0.5V$ in increments of 0.1V.



TI / Van



Alcoves / Alcove bed

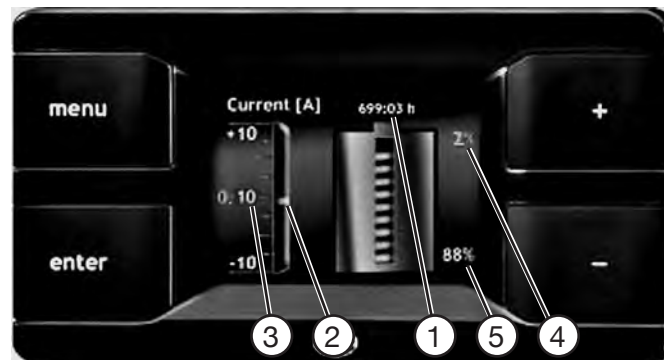
Control Panel for Lights

Legend

	TI / Van	Alcoves	Alcove bed
①	On / Off	On / Off	On / Off
②	Bed spotlight left	Alcove spotlight left	Bed spotlight left
③	Kitchen ceiling	Kitchen ceiling	Kitchen ceiling
④	Ceiling light, seating arrangement	Ceiling light, seating arrangement	Spotlights Seating arrang. under the alcove bed
⑤	Wash room	Wash room	Wash room
⑥	Bed spotlight right	Alcove spotlight right	Bed spotlight right
⑦	Kitchen Worktop lighting	Kitchen Worktop lighting	Kitchen Worktop lighting
⑧	Spotlights seating arrang. under the wall cabinet	Spotlights seating arrang. under the wall cabinet	Spotlights seating arrang. under the wall cabinet
⑨	-----	Spotlights for bed at rear end of vehicle	Ceiling lights above bed at rear end of vehicle



The spotlights can also be switched on manually for each lamp. The spotlights must be switched on in order to use the control panel to switch them on and off.



Intelligent Battery Sensor (IBS)*

The battery sensor measures the capacity of the starter and ancillary batteries that is still available. It also shows the age of the batteries.

Legend

① DOD display

Shows the remaining amount of time for use if current amount of use is continued..

② Electric power display

Red = discharge

Green = charge

③ Electricity as a numerical value

Example: Current discharge: 0.1 A.

④ **Battery ageing**

(SOH = State of Health)

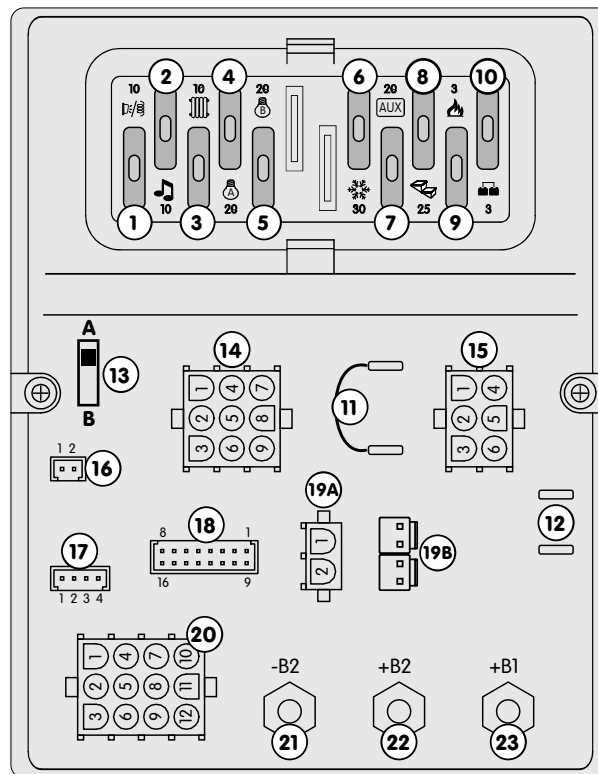
Example: The original capacity of the battery has already been reduced by 2%.

⑤ **State of charge**

(SOC = State of Charge)

Actual state of charge of the battery

Example: SOC: 88%.

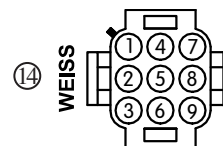
Distribution module

Fuses

- ① 10A fuse for supply of outer tent light or control switch for the heating element of the waste water tank.
- ② 10A fuse for supply of the radio. It is dependent on the radio button.
- ③ 10A fuse for supply of the heating/boiler. It is dependent on the main button.
- ④ 20A fuse for supply of lighting group "A". It is dependent on the main button.
- ⑤ 20A fuse for supply of lighting group "B". It is dependent on the main button.
- ⑥ 30A fuse for supply of the 12V AES absorber refrigerator. The refrigerator will turn off automatically when the motor is switched off.
- ⑦ 20A fuse for the aux supply (solar charger controller). It is directly dependent on B2.
- ⑧ 25A fuses for supply of the electric step. It is directly dependent on B2.
- ⑨ 3A fuse for supply of gas (refrigerator, kitchen, boiler valve, etc.). It is directly dependent on B2.
- ⑩ 3A fuse for protection of output "simulated D+". (See no. 12.)

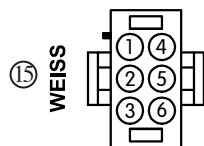
- ⑪ Jumper for connecting absorption refrigerator relay. This connects the refrigerator directly to B2.
- ⑫ Simulated D+ generator output that controls the electric entrance step, electrical drain valve and retraction of the electric antenna.
- ⑬ To switch between functions for this vehicle, as set by the manufacturer,
A: PC220-HB

Connections



Electrical devices

- 1) + Output heating/boiler, dependent on main button, fuse ③
- 2) + Output radio, dependent on radio button, fuse ②
- 3) + Output outer tent light / control switch for the heating element of the waste water tank, fuse ①
- 4-5-6) + Output lighting group "B", dependent on main button, fuse ④
- 7-8-9) + Output lighting group "A", dependent on main button, fuse ⑤



Electrical devices

- 1) + Output AUX (solar charge controller), (directly "B2"), fuse ⑦
- 2-3) + Output AES absorption refrigerator, fuse ⑥
- 4) + Output entrance step (directly "B2"), fuse ⑧
- 5-6) + Output for equipment requiring gas (refrigerator, kitchen), fuse ⑨



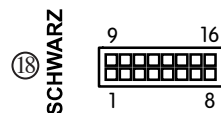
Waste water tank probe

For connecting to the waste water tank probe



Fresh water tank probe

For connecting to the fresh water tank probe



Control panel

For connecting to 16-pole plug of the control panel



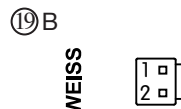
Signal input ignition - variation A

- 1) + Signal input ignition key contact
- 2) + Signal input "S" network (CBE charger)

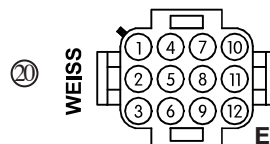


Signal input ignition - variation B

- 1) N.C.
- 2) + Signal input ignition key contact

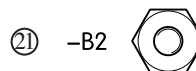


- 1) + Signal input "S" network (CBE charger)
- 2) N.C.



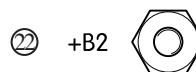
Earth

Ground connection negative pole for electrical devices



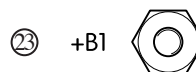
Ancillary battery

Connection negative pole ancillary battery or chassis



Ancillary battery

Connection for positive pole for ancillary battery



Vehicle battery

Connection for positive pole for vehicle battery



7.3 Electric power supply

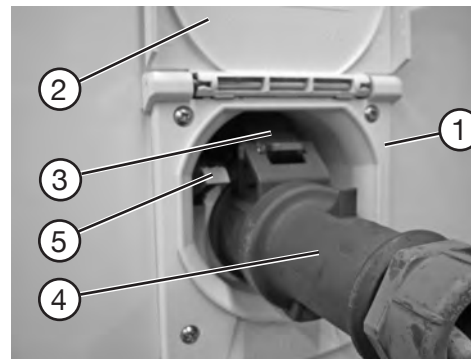
Your motor home has the following connections for electric power supply:

- electric mains (a.c. voltage 230 V)
- caravan battery (d.c. voltage 12 V)

Depending on the model, the automatic circuit breaker is located either in the clothes cupboard, in the step for the bed at the rear end of the mobile home, or in the cupboard under the bed at the rear end of the mobile home.

Electric power supply from the electric mains

The 230 V system is protected by a 2-pole circuit breaker with 16 A.



The mobile home is connected to the external 230V mains by a CEE feeder plug ① located in the side wall.

To connect the CEE feeder plug

- Flip up the cover flap of the external socket ② (see 05-11).
- Completely unwind the connector cable.
- Open the cap of the CEE connector plug ③ by pulling it up in a 90° angle.
- Insert the plug ④ until it locks into place.

To disconnect the electric connection:

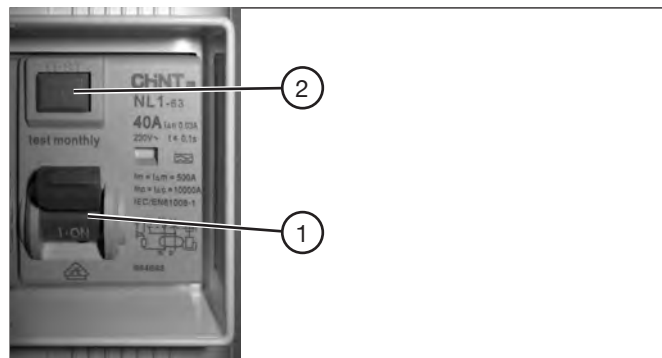
- Press the lever ⑤ in the external socket down.
- Remove the CEE plug ④.
- Push the cover flap ② of the external socket down until it clicks into place.



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.



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. Should there be a malfunction, the passenger circuit breaker opens the entire 230 V circuit. In most cases, such a malfunction is caused by a defect piece of electric equipment or a defect in its supply line.



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.

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.

7.4 Function of the power generating unit

Position of the battery charger

The charger is located under the passenger seat.

Operation with 230V mains electricity

After connecting to the mains, both the ancillary and the vehicle battery will automatically be charged by the battery charger in the mobile home (even if the Control Panel has not been switched on).

Charging procedure

The charger represents the current status of technology and charges in three phases in accordance with the so-called $I_{U_0}U_1$ curve. The charging period should be at least 12 hours.



Batteries do not function fully in low temperatures: they then supply less electricity to the electrical system and consume larger amounts of energy from the charger.



The battery charger only works if the batteries have been inserted with their poles in the right direction.



The minimum charging period of 12 hours must be extended accordingly if equipment using 12V is switched on during charging.

Total discharge protection

If the battery voltage of the ancillary battery sinks below 10.5 V a relay shuts down all equipment using power.



If the total discharge protection is activated turn off the 12V main switch to avoid an additional discharge of the ancillary battery.

Function of the battery charger

Protecting the device

If the battery charger should become hot because of high environmental temperatures or high charging currents, a built-in thermal switch turns off the battery charger until the temperature in the battery charger has dropped again.

Check list

- Turn off the motor.
- Connect the battery charger to the mains supply.
- Switch on the 12V main switch.
- Turn off all equipment (also refrigerator) using 12V power.

The voltage of the caravan battery must rise to a maximum voltage of 14.4 V.

If this does not happen after using the built-in battery charger to charge the battery, check the following:

- Is the charger attached correctly to the power supply?
- Is the charger's mains fuse working properly?
- Is the charger's battery voltage over 3 volts?
- Are the ancillary battery's poles attached correctly?

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. The D+ signal sits close to the dynamo. 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 caravan.

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.



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 vehicle battery if the main switch has been activated.

Checklist

- Turn off the motor.
- 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.

If this does not happen after using the dynamo to charge the battery, 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?

Operation by means of a 12 V caravan battery

All of the equipment is automatically supplied from the caravan battery if the motor home is standing still without a 230 V mains supply and with its engine turned off. The 12 V master switch must be switched on.



The caravan battery should only be allowed to discharge to a voltage of 11 V. At this point, you should ensure that it is recharged from the dynamo or from public supply.

7.5 Caravan battery

Location

- Under the passenger's seat.

Features

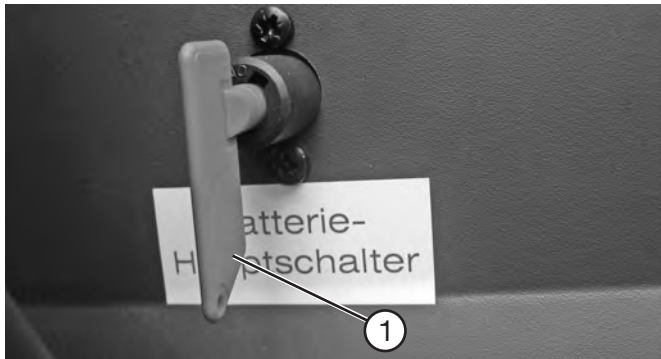
- The battery does not require maintenance. It does not need to be refilled with water.
- The battery is closed off and cannot leak.
- The battery is cycle-proof, making it especially suitable for the supply of the board network.



Use only the same kind of batteries when exchanging the battery (same capacity and voltage, cycle-proof, maintenance-free and leakproof).

Changing the battery

- Please do not smoke when changing the battery.
- Disconnect the connection to the 230 V network.
- Before disconnecting or connecting the battery switch off all equipment using 12V power.
- First, disconnect the negative (-) terminal.
- Then disconnect the positive (+) terminal.
- Remove the battery.
- Insert the new battery.
- Use the reverse sequence to connect the new battery.

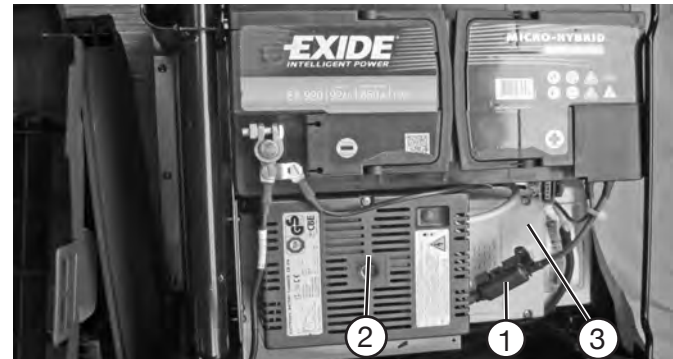


Circuit breaker

To protect the ancillary battery from being exhaustively discharged when the mobile home is not being used, a circuit breaker ① has been installed, which is located underneath the vehicle, directly by the door on the passenger's side. 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.



7.6 Fuse protection of the electric system

Ancillary battery

Fuses are mainly protected by a 50 A safety fuse ①. This is located directly on the modular battery.

12V circuits

These are protected by fuses on the 12 V distribution module.

The following applies if one of the devices breaks down

- Check the fuse on the corresponding electric circuit.
- Replace the fuse.
- If the fuse blows again please contact your authorized Hobby dealer.

Battery charger with a distribution module

The charger ③ and distribution module ② with integrated fuses are located in front of the modular battery under the passenger's seat.



7.7 Mobile navigation *

As an optional feature, your mobile home can be equipped with a mobile 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/EEG as it appears in version 95/54/EEG, 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

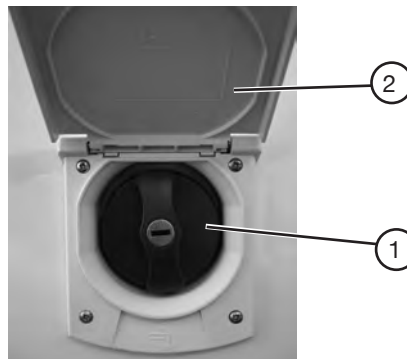
The motor home is equipped with a fixed fresh water tank. An electric TANDEM submersible pump pumps the water to the individual points where water is tapped. When a tap is turned on the pump is automatically activated and pumps water to the relevant outlet. The waste water tank collects the dirty waste 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.



TANDEM submersible pump

The mobile home is equipped with a TANDEM submersible pump that does not require maintenance.



- 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.

Fresh water tank

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.



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

The outlet valve can be accessed above the toilet flap.

- To empty the fresh water tank, raise the lever ① up to an angle of 90°.



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

As an optional feature, the waste water tank can be heated to prevent waste water from freezing in a light frost. After the heating system has been switched on on the control panel, the hot air is conducted through a pipe system to the waste water tank.



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.

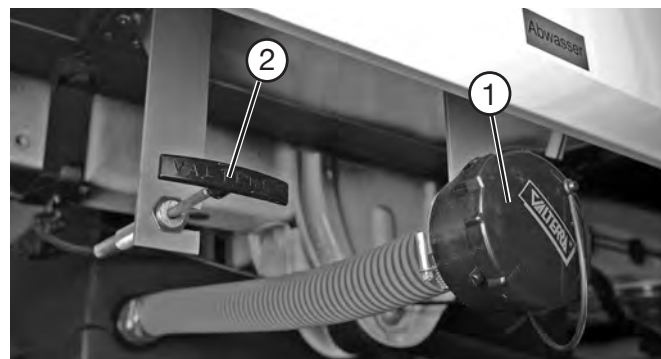
Draining the water system

- 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.



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 directly by the opening.
- Unscrew the lid ①, open the 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.



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.

8.3 Hot water supply

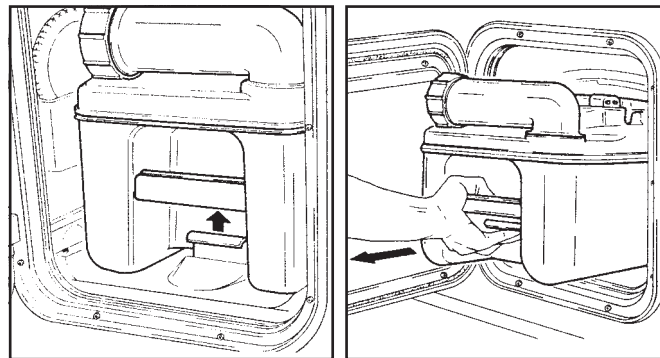
Your motor home is equipped with a heating system with integrated boiler. The boiler holds 10 litres of water. During summer use the water can be heated independently of the heating system. Please see Chapter 9.3 Heating for instructions on operating the boiler.



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

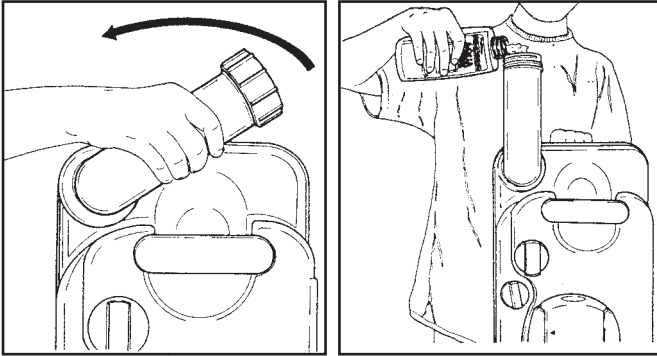
Preparing the toilet

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



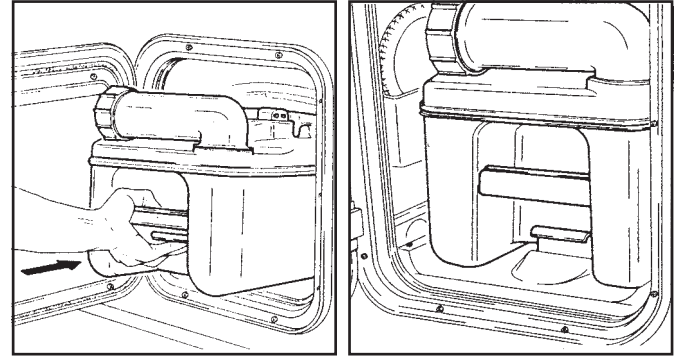
The waste tank can only be removed when the drain valve is closed.

- 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.



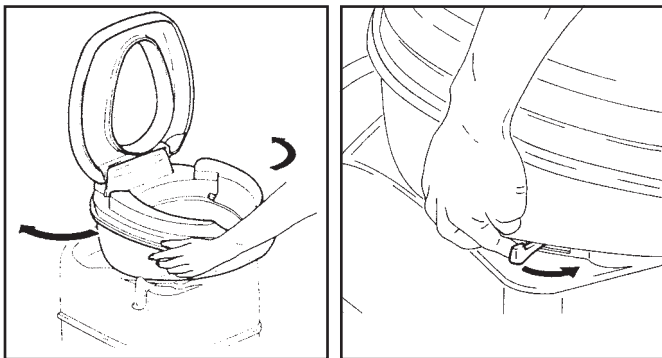
Use toilet fluids very sparingly. An overdose is no guarantee of preventing possible odours!

- 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.



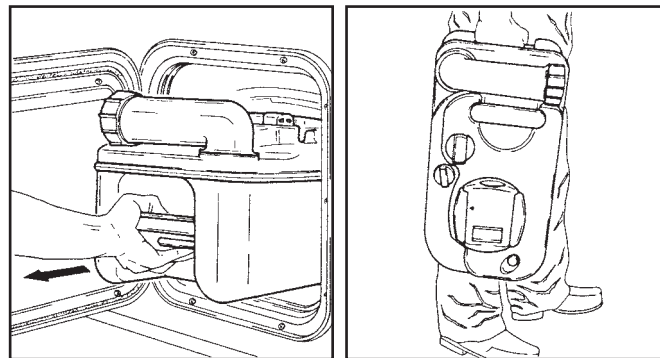
Never fill toilet fluids directly into the toilet bowl.

- 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.



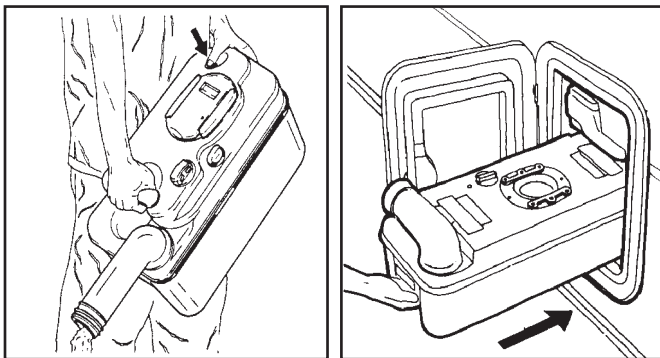
Emptying the waste tank

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.

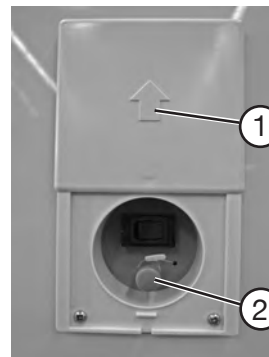


The waste tank can only be removed when the drain valve is closed.



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 *

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. Control CS).

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.



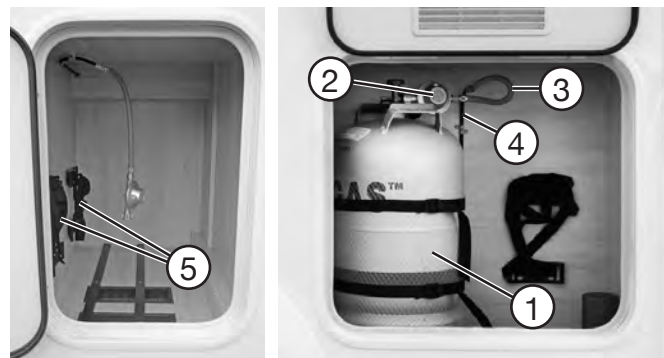
Read the manufacturer's operating manuals carefully!



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



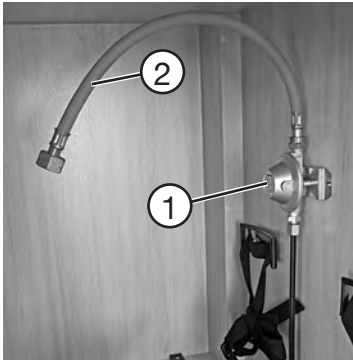
Gas bottle cabinet

The gas bottle container can be accessed 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.

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.
- Unscrew the gas pressure regulator/ high-pressure hose* by hand from the gas bottle (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.
- Screw the gas pressure regulator/ high-pressure hose* by hand on to the gas bottle (left-handed thread).
- **Only when equipped with a crash sensor:** Press on the hose rupture protection (green button) on the high-pressure hose (see 09-7).
- Check that gas is not escaping from the connection point using leak detector spray.
- Close the gas bottle cabinet door.



(Oven*) Heating Refrigerator Gas cooker

Gas stop valves

Every gas device is fitted with a corresponding gas stop valve. The gas stop valves are located in the kitchen drawer above the cutlery tray or in the lower kitchen cupboard. They have been marked with the corresponding symbols.

The following applies to stop valves and valves:

- All the valves on gas devices must be closed while driving.
- The lower photograph shows the shut off valves when they are closed. To open the valves, they must be turned to a vertical position. (See upper photo)
- 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.



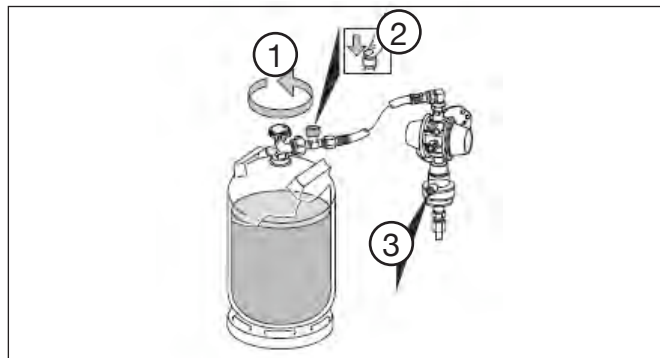
Never carry out leak tests near an open flame.

Gas regulator with a crash sensor *

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

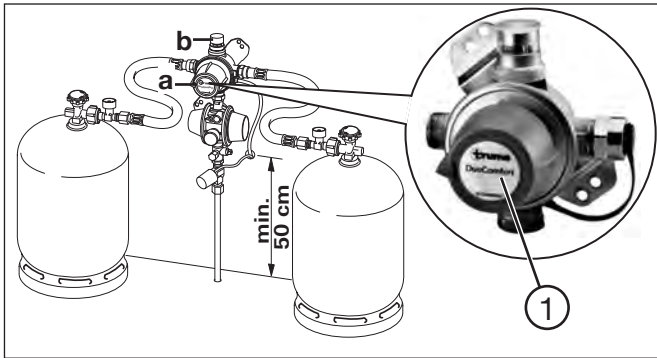
Should there be an accident, the integrated crash sensor automatically interrupts the gas supply, thereby preventing gas from escaping.

(Effect of delay 3.5 ± 0.5 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 *

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 CS.

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.

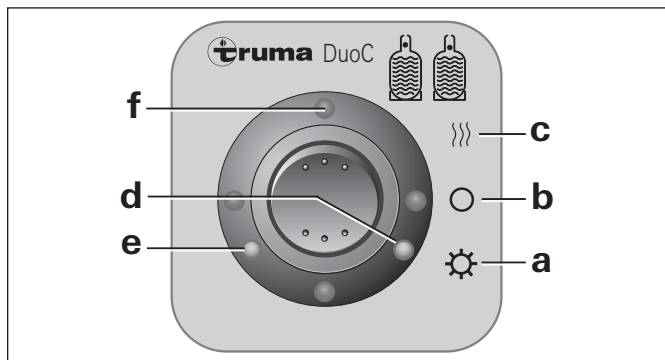
Green: full

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 *

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)



9.3 External socket for gas *

The external socket for gas is used to connect external gas devices such as a gas barbecue or lamp.



The operating pressure of the device to be connected must be 30 mbar (1 bar = 14.5 PSI).

The plug connection can only be hitched when the emergency shutoff valve has been closed. Push back the clutch sleeve to undo the safety latch.

The coupling valve has been constructed in such a way that the emergency shutoff valve can only be opened if a plug connection has been used to hitch the coupling. When hitching, the plug connection is plugged into the safety coupling.

When unhitched, use the protective cap to shut the opening of the valve.



The external socket for gas is only suitable for extracting gas, not for supplying gas to the system.

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.



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.



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.

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

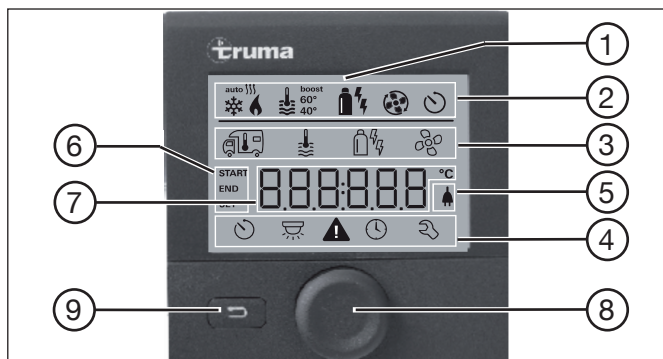
- Set the air vents in the motor home so that the warm air is blown out where required.
- Check that the chimney is clear. Remove any covers.
- Open the gas cylinder and the gas stop valve.



- Only operate the device if it is in perfect technical condition.
- Always have malfunctions repaired immediately. Only repair malfunctions yourself if such malfunctions are described in the troubleshooting instructions in this manual.
- Do not carry out any repairs on or make any changes to the device.
- Only have a defect device repaired by the manufacturer or their service department.



If the system's power supply is interrupted, the time must be reset.



Operating and display controls

- ① Display
- ② Status line
- ③ Menu line (top)
- ④ Menu line (bottom)
- ⑤ Display: 230V mains voltage (charging current)
- ⑥ Display: timer
- ⑦ Settings / values
- ⑧ Adjusting knob / pushbutton
- ⑨ Reset button

The adjusting knob / pushbutton ⑧ is used to select the menus in lines ③ and ④ and change the settings. The data is shown on the display ①; the background is illuminated. Use the reset button ⑨ to return to the previous menu.

Adjusting knob / pushbutton

The adjusting knob / pushbutton ⑧ is used to select and change specified values and parameters. The changes are saved by briefly pressing the button. Selected menu items blink.



Turn to the right (+)

- Goes through the menu list from left to right.
- Increases the values.



Turn to the left (-)

- Goes through the menu list from right to left.
- Decreases the values.



Press the button briefly

- Saves a selected value.
- Selects a menu item; changes to the setting mode.



Press (3 seconds)

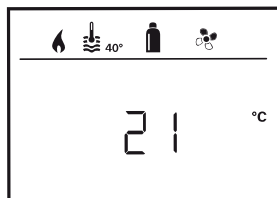
- Main function ON / OFF

Reset button

Press the reset button ⑨ to return to the previous menu and reject the settings. This means that the previous values will continue to apply.

To operate

Start / stand-by screen



A few seconds after the control panel has been connected to the power supply, a start screen will appear.

If nothing is entered for several minutes, a stand-by screen will automatically be displayed.

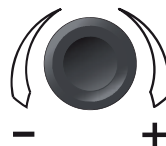


When the time is set (see “Setting the time”) the display alternates between the time and the room temperature that has been set. If no time has been set, the set room temperature will be displayed permanently.

Functions

The functions in the menu lines ③ ④ of the control panel can be selected in any sequence. The operating parameters are shown in the status line ② or in the display ⑤ ⑥.

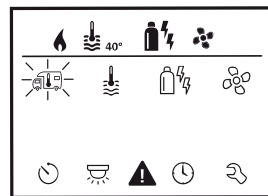
Switching the control panel on and off



Press the adjusting knob / pushbutton for longer than 3 seconds.

- Previously set values / operating parameters will be reactivated after the control panel has been switched on.
- If the heating system is not supplied with operating voltage for more than 2 hours, the control panel will automatically switch itself off.
- Due to an internal lag feed in the heating system, it may take a few minutes for the control panel to switch off.

Selecting the setting mode



Press the adjusting knob / pushbutton

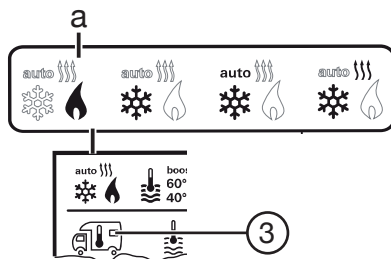
The display shows the setting mode. The first icon blinks.



Changing the room temperature

Use the adjusting knob / pushbutton to select the icon in the menu line ③

- Press to switch to the setting mode.
- Use the adjusting knob / pushbutton to select the desired temperature.
- Press the adjusting knob / pushbutton to confirm the temperature.



a = Heating

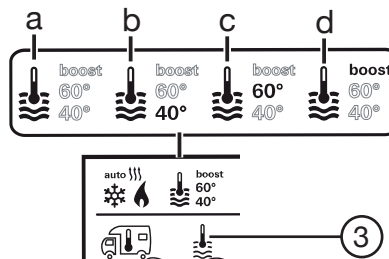
- Heating is switched on.
- Adjustable range of temperature: 5 - 30°C (in increments of 1°C)
- Use the adjusting knob / pushbutton for fast temperature changes (on stand-by screen).



Changing the hot water temperature

Use the adjusting knob / pushbutton to select the icon in the menu line ③

- Press to switch to the setting mode.
- Use the adjusting knob / pushbutton to select the desired temperature.
- Press the adjusting knob / pushbutton to confirm the temperature.



- a = boiler¹⁾** is switched on
- b = 40° **** hot water temperature of 40°C
- c = 60°** hot water temperature of 60°C
- d = BOOST¹⁾** specifically heats up the contents of the boiler (boiler operation) fast for a max. period of 40 min.

¹⁾ The icon will blink until the desired water temperature is reached.

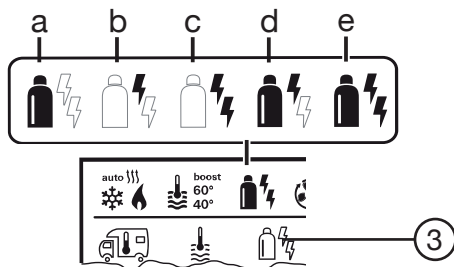
¹⁾ Hot water temperature of 40°C can only be maintained at 40° C for a limited period of time if both the room and the water are being heated.



Selecting the type of energy *

Use the adjusting knob / pushbutton to select the icon in the menu line ③

- Press to switch to the setting mode.
- Use the adjusting knob / pushbutton to select the desired type of energy
- Press the adjusting knob / pushbutton to confirm the temperature.



Icon	Type of operation	Type of energy
a	Gas	Gas
b	EL 1	Electricity
c	EL 2	Electricity
d	MIX 1 ¹⁾	Electricity + Gas
e	MIX 2 ¹⁾	Electricity + Gas

¹⁾ Mixed operation (electric and mixed operation are optional extras)



As soon as the heating has been switched on (room temperature and hot water temperature have been activated) the type of energy selected in the previous heating operation is displayed in the status line.

Manufacturer's default setting: gas.

Special features in mixed operation

Interrupting the 230V power supply:

The heating system will switch automatically to gas operation. As soon as the 230V power supply has been reinstated, the heating system will automatically switch back to mixed operation.

Malfunction in the combustion process (e.g. lack of fuel):

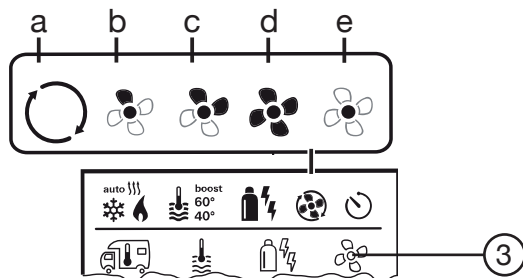
Combi Gas The heating system will switch automatically to electric operation. If it is running in mixed operation, the cause of the malfunction must be eliminated. Use the control panel to switch the heating off and then on again.



Selecting the fan speed

Use the adjusting knob / pushbutton to select the icon in the menu line ③.

- Press to switch to the setting mode.
- Use the adjusting knob / pushbutton to select the desired fan speed.
- Press the adjusting knob / pushbutton to confirm the temperature.



Icon	Type of operation	Description
-	OFF	Fan is switched off. (Can only be used if no device is being operated.)
a	VENT ¹⁾	Air circulation, if no device is being operated. RPM can be selected in 10 increments.
b	ECO	Low fan speed
c	HIGH ²⁾	High fan speed

d	BOOST	To heat room rapidly Available if the difference between the selected and the actual room temperature is more than 10°C.
---	-------	---

- 1) Can lead to higher engine wear, depending on how often it is selected.
- 2) The "HIGH" fan speed has a higher current consumption, higher noise level and higher engine wear.



As soon as the heating has been switched on (room temperature and hot water temperature have been activated) the fan speed selected in the previous heating operation is displayed in the status line. Manufacturer's default setting: "ECO".



Setting the timer

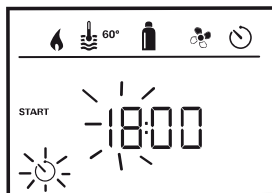


The timer can only be selected if the clock on the control panel has been set.
If the timer has been activated (ON), the menu item Activate timer (OFF) is first displayed.

Use the adjusting knob / pushbutton to select the icon in the menu line ④ .

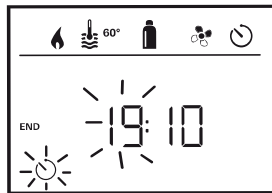
- Press to switch to the setting mode.

Entering the start time



- Use the adjusting knob / pushbutton to set the hours and then the minutes.

Entering the end time

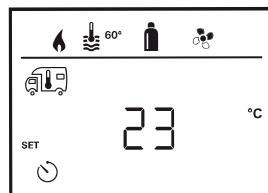


- Use the adjusting knob / pushbutton to set the hours and then the minutes.



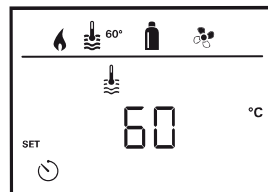
If the start/end time was exceeded during entry, the operating parameters will only be taken into account after the next start/end time has been reached. Until then, the operating parameters set outside the timer will remain valid.

Setting the room temperature



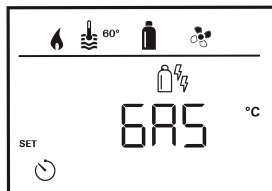
- Use the adjusting knob / pushbutton to select the desired room temperature.
- Press the adjusting knob / pushbutton to confirm the temperature.

Setting the hot water temperature



- Use the adjusting knob / pushbutton to select the desired hot water temperature.
- Press the adjusting knob / pushbutton to confirm the temperature.

Selecting the type of energy *

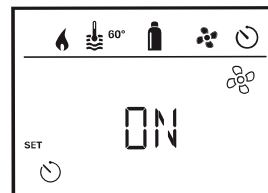


- Use the adjusting knob / pushbutton to select the desired type of energy.
- Press the adjusting knob / pushbutton to confirm the temperature.



The menu item "Select type of energy" will be depicted when a heating system that uses electric heating rods has been connected (optional extra).

Activating the timer (ON)

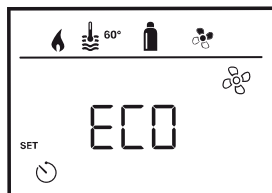


- Use the adjusting knob / pushbutton to activate the timer (ON).
- Press the adjusting knob / pushbutton to confirm the time entered.



The timer will continue to remain active, even for several days, until it has been deactivated (OFF). The icon for the timer will blink when the timer has been programmed and is active.

Selecting the fan speed



- Use the adjusting knob / pushbutton to select the desired fan speed.
- Press the adjusting knob / pushbutton to confirm the temperature.



The menu item "Select fan speed" will be depicted when the heating / hot water temperature has been set.

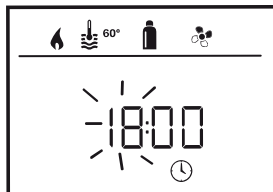
Deactivating the timer (OFF)



- Press to switch to the setting mode.
- Use the adjusting knob / pushbutton to deactivate the timer (OFF).
- Press the adjusting knob / pushbutton to confirm the time entered.



Setting the time

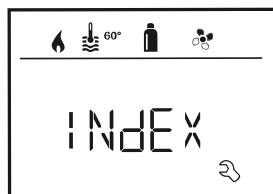


- The hours blink.
- Use the adjusting knob / pushbutton to set the hours (24-hour mode).
- After pressing the adjusting knob / pushbutton once again, the minutes will blink.
- Press the adjusting knob / pushbutton to confirm the time entered.



Service menu

To show the version number of the connected devices



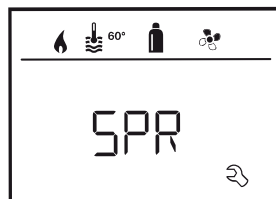
Show the version number of the heating or control panel.

Changing the background illumination of the control panel



The background illumination can be changed in 10 increments.

Changing the language



Select the desired language from the languages available (e.g. English, German, French, Italian).

Calibrating the temperature sensor (OFFSET)



The temperature sensor for the heating can be individually adjusted to the size of the vehicle. The offset can be set in increments of 1°C within a range of -5°C to +5°C.

Resetting to manufacturer's default setting (RESET)

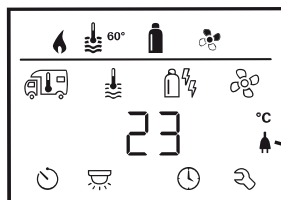


The reset function resets the control panel to the manufacturer's default setting. It deletes all of the settings you have made.

Confirming the reset

- Press the adjusting knob / pushbutton

Display: 230V mains voltage

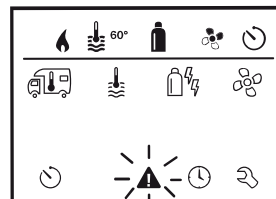


The icon signals that the 230V mains voltage (charging current) is available.



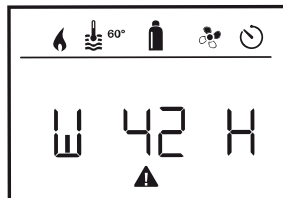
Warning

A warning icon appears to signal a warning that one of the operating parameters has reached an undefined status. In this case, the device in question will continue to operate. As soon as the operating parameter is once again within its specified range of values, the icon will disappear.



This can only be displayed in connection with a Combi E CP plus heating system that includes additional heating rods for electric operation (optional extra).

Reading out the warning code



- Use the adjusting knob / pushbutton to select the icon.
- Press the adjusting knob / pushbutton. The current warning code will be displayed. Use the error list to determine the cause of the warning and eliminate it.

W = Warning

42 = Error code

H = Heating

Cause eliminated / Return to setting mode

- Press the adjusting knob / pushbutton.

Cause not eliminated / Return to setting mode

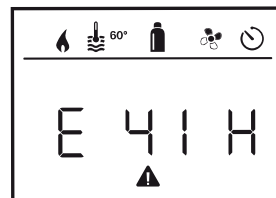
- Press the reset button.



In this case, the warning will not be acknowledged on the control panel and the warning icon will continue to be displayed. The control panel will remain in a warning state. Other connected devices can be operated.

Malfunction

If there is a malfunction, the control panel will immediately go to “Malfunction” mode and display the Malfunction error code.



E = Malfunction

41 = Error code

H = Heating

Cause eliminated / Return to setting mode

- Press the adjusting knob / pushbutton.
- The corresponding device will be restarted.



Due to an internal lag feed in the connected devices, this may take a few minutes.

If the cause has not been eliminated, the malfunction will occur again and the control panel will once again go to “Malfunction” mode.

Cause not eliminated / Return to setting mode

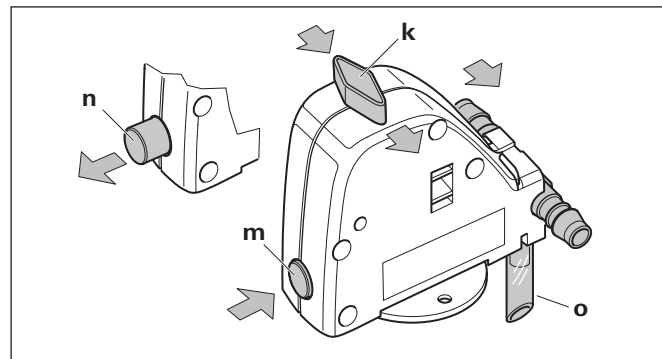
- Press the reset button.



In this case, the malfunction will not be acknowledged on the control panel and the warning icon will continue to be displayed. The device will remain in a state of malfunction. Other connected devices can be operated.

Maintenance

This device requires no maintenance. Use a non-abrasive cloth dampened with water to clean the front. If this is not sufficient, use a neutral soap solution.



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.

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)**.



The FrostControl is located in all vehicles directly next to the heating system.

**Hot air valve in alcove**

The alcove models are equipped with hot air vents in the alcove bed. The slider ① is used to regulate the amount of hot air.

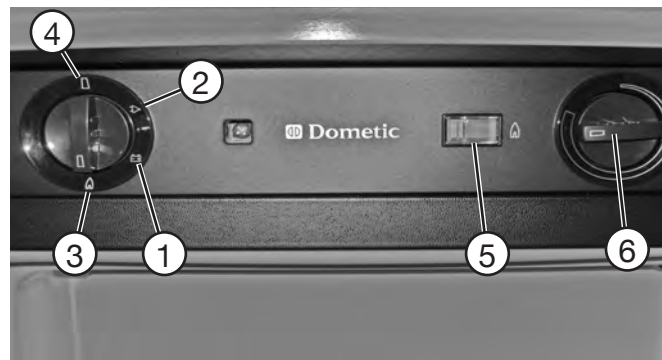
Depending on the model, the hot air slider is located either on the standing wall of the kitchen unit in the direction of the passenger seat or in the seating arrangement on the side wall towards the rear of the mobile home.

10.3 Refrigerator

Modes of operation

Three modes of operation are possible for the refrigerator.

- 12 V operation: ① electricity is supplied by the motor home's battery.
- 230 V operation: ② electricity is supplied from an external source.
- LPG: ③ supply is from the motor home's gas bottles



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.



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

- 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.

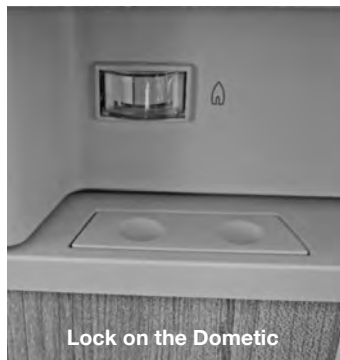
- Use the thermostat ⑥ to regulate the cooling capacity. No absolute temperature values have been assigned to the temperature levels.
- To turn the refrigerator off turn the energy selector switch to the O position ④
- Close the main stop valve on the gas cylinder and the “Refrigerator” gas stop valve.



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



Lock on the Slim Tower



Lock on the Dometic



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

Refrigerator door lock



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

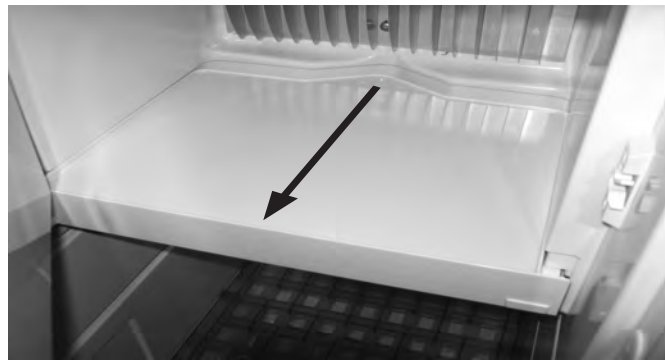
The refrigerator door has an automatic lock. If the door is closed and pushed firmly it will lock automatically.

Locking the Slim Tower:

Pull on the handle and open the refrigerator door.

Lock on Dometic:

Press the push button and pull open the refrigerator door.



Removable freezer in Slim Tower

The freezer in the Slim Tower can be removed in order to optimize the available space.

To remove the freezer

- Open the freezer door.
- Push both clamps underneath the shelf towards the middle.
- If necessary, unhook the freezer door.
- Remove the floor panel of the freezer.



Information on removing the freezer is also given in the operating instructions for the refrigerator.



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.



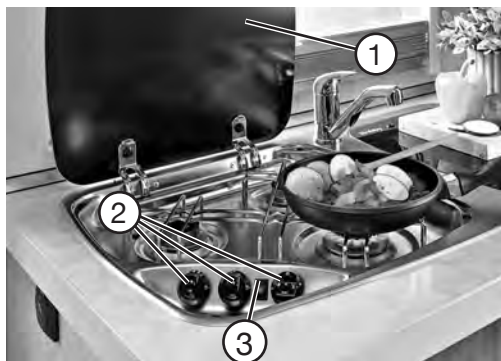
Do not operate the cooker when the glass covering is closed.

10.4 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.



Operation

- Open the glass cover ①.
- Turn the rotary switch ② of the burner you wish to use to the ignition position (large flame) and press.
- Ignite the burner by pressing the igniter ③.
- 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!



10.5 Oven *



- 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.



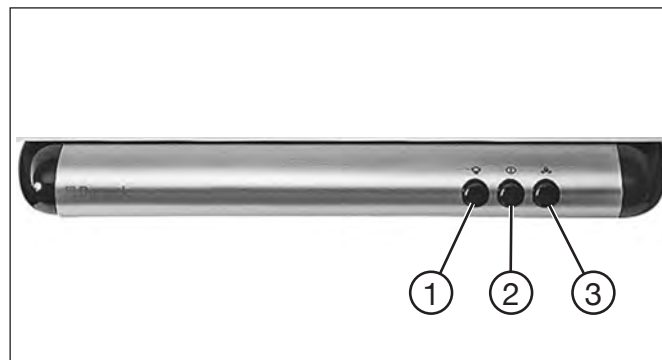
- Never operate the oven when it is empty (no food inside).
- Never use the grill (Optional Extra) for longer than 25 minutes.
- Never use the oven to heat the motor home.

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”.

**10.6 Fume Hood ***

The built-in fan blows kitchen odours directly outside.

- ① Light
- ② To switch on
- ③ To set the speed for the fan



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



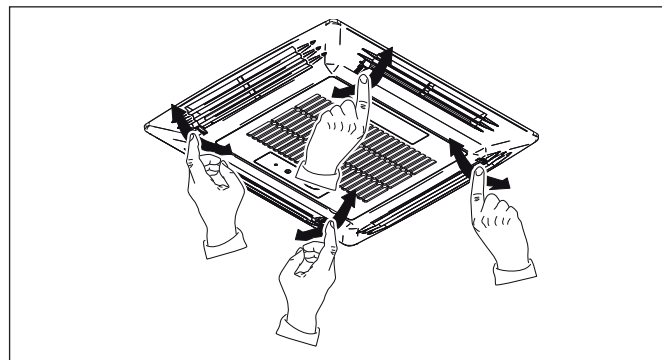
10.7 Rooftop Air Conditioning *

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

The air supply within the vehicle can be regulated by setting the air nozzles.

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 vehicle.

Hobby recommends that you contact a service partner before driving there and inquire whether they have the necessary capacity (e.g. an adequate car lift) in order to avoid any misunderstanding.

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.

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 lukewarm 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 tires, 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.



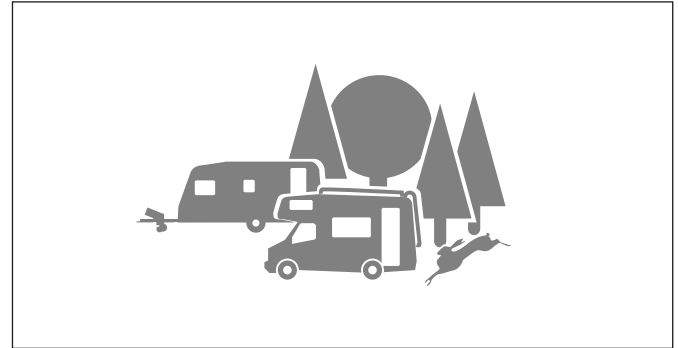
Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the environment.

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 waste water and rubbish in the proper way.
- Set an example so that motor home and caravan drivers are not generally held to be pollutionists.

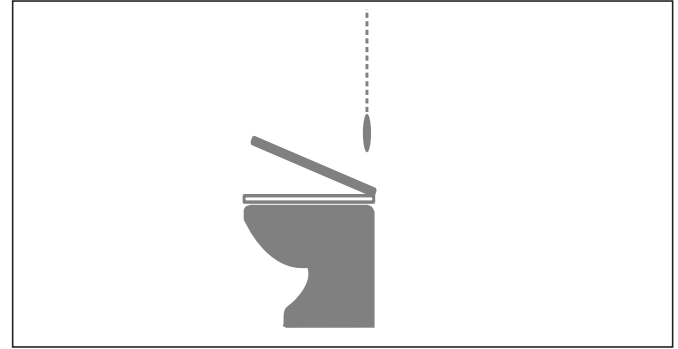


The following applies for waste water:

- 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 will be taken back free of charge by any FIAT 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]	Unladen weight [kg]	Basic equipment	Mass when vehicle is ready to start	t.p.o.w. [kg]	Overload weight	No. of seats	Conventional loading	Overload weight	Length of vehicle	Personal equipment	Remaining overload weight
V60 GF	Siesta Van	2389	75	77	2541	110	2651	3500	849	4	225	624	6,0	100	524
V65 GE	Siesta Van	2524	75	77	2676	110	2786	3500	714	4	225	489	6,7	107	382
T60 FL	Siesta TI	2555	75	77	2707	110	2817	3500	683	4	225	458	6,5	105	353
T60 GQ	Siesta TI	2531	75	77	2683	110	2793	3500	707	4	225	482	6,2	102	380
T60 H	Siesta TI	Weights were not yet available at copy deadline.													
T65 GE	Siesta TI	2638	75	77	2790	110	2900	3500	600	4	225	375	7,0	110	265
T65 GF	Siesta TI	2565	75	77	2717	110	2827	3500	673	4	225	448	6,5	105	343
T65 HGF	Siesta TI	Weights were not yet available at copy deadline.													
T65 HFL	Siesta TI	2717	75	77	2869	110	2979	3500	521	4	225	296	7,0	110	186
T70 HGE	Siesta TI	Weights were not yet available at copy deadline.													
T70 GQ	Siesta TI	2652	75	77	2804	110	2914	3500	586	4	225	361	7,2	112	249
T70 HGQ	Siesta TI	Weights were not yet available at copy deadline.													
A55 GS Sport	Siesta Sport	2490	75	77	2642	110	2752	3500	748	4	225	523	5,6	96	427
A60 GF	Siesta	2678	75	77	2830	110	2940	3500	560	4	225	335	6,2	102	233
A65 GM Family	Siesta Family	2693	75	77	2845	110	2955	3500	545	6	375	170	6,5	125	45
A70 GM	Siesta	2757	75	77	2909	110	3019	3500	481	5	300	181	7,0	120	61

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 ¹⁾		
215/70 R 15 C	front: 4,1 rear: 4,5	FIAT
225/75 R 16 C	front: 4,5 rear: 5,0	FIAT

¹⁾These tire pressures are only valid for standard tires made by alternative manufacturers (e.g. Continental, Pirelli, etc.).

13.3 Technical data

Hobby Modell	Model	Type	Base vehicle	Motorisation ⁵⁾ Model	exhaust gas emissions	Chassis	Frame extension	Tow-bar Sawiko				
								Type	Reinforcement	Rear crossbar	Trailer coupling	Spherical head
V60 GF	Siesta Van	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	---	MT026	---	---	30PEI20023-P	Typ 04 (3009000400)
V65 GE	Siesta Van	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0300000 lowered	MT030	31TEV4003P	31TE14003P	---	Typ 05 (3009000500)
T60 FL	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0800000 lowered	MT030	31TEV4008P	31TE14003P	---	Typ 05 (3009000500)
T60 GQ	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0900000 lowered	MT030	31TEV4009P	31TE14005P	---	Typ 05 (3009000500)
T60 H	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	---	MT026	---	---	30PEI20022-P	Typ 04 (3009000400)
T65 GE	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0400000 lowered	MT030	31TEV4004P	31TE14003P	---	Typ 05 (3009000500)
T65 GF	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0500000 lowered	MT030	31TEV4005P	31TE14005P	---	Typ 05 (3009000500)
T65 HGF	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0400000 lowered	MT030	31TEV4004P	31TE14003P	---	Typ 05 (3009000500)
T65 HFL	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0400000 lowered	MT030	31TEV4004P	31TE14003P	---	Typ 05 (3009000500)
T70 HGE	Siesta TI	F3	Ducato Light	130 Multijet (96 kW)	Euro 5	Spezial	40P1100000 lowered	MT030	31TEV4011P	31TE14003P	---	Typ 05 (3009000500)
T70 GQ	Siesta TI	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P1000000 lowered	MT030	31TEV4010P	31TE14003P	---	Typ 05 (3009000500)
T70 HGQ	Siesta TI	F3	Ducato Light	130 Multijet (96 kW)	Euro 5	Spezial	40P1100000 lowered	MT030	31TEV4011P	31TE14003P	---	Typ 05 (3009000500)
A55 GS Sport	Siesta Sport	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	---	MT026	---	---	30PEI20022-P	Typ 04 (3009000400)
A60 GF	Siesta	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0600000 lowered	MT030	31TEV4006P	31TE14005P	---	Typ 05 (3009000500)
A65 GM Family	Siesta Family	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0700000 lowered	MT030	31TEV4007P	31TE14005P	---	Typ 05 (3009000500)
A70 GM	Siesta	F3	Ducato Light	115 Multijet (85 kW)	Euro 5	Spezial	40P0400000 lowered	MT030	31TEV4004P	31TE14003P	---	Typ 05 (3009000500)

All measurements in [mm]

all weights in [kg]

1) Trailer load for technically permitted gross vehicle weight of 3,650 kg is reduced to 1,900 kg; for technically permitted gross vehicle weight of 4,250/4,000 kg it is reduced to 1,800 kg.

2) without wing mirror, without side blinker

3) tow coupling is a special accessory

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

5) FIAT: 115 Multijet: 85 kW (115 PS); 130 Multijet: 96 kW (130 PS); 150 Multijet: 109 kW (148 PS)

VELO holding fixture	Seats	t.p.o.w. [kg]	Permiss. front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Max. permissible drawbar load ³⁾	Maximum towing weight	Length of super-structure ⁴⁾	Total length	Height	Width ²⁾	Front tread width	Rear tread width	Wheel base	Front projection	Rear projection
20E09+Adapter	4	3500	1850	2000	750	2000 ¹⁾	80	5500	3601	5999	2790	2180	1810	1790	3800	948	1251
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4252	6690	2790	2180	1810	1790	3800	948	1942
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4052	6490	2790	2340	1810	1980	3450	948	2092
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	3800	6238	2790	2340	1810	1980	3450	948	1840
20E09+Adapter	4	3500	1850	2000	750	2000 ¹⁾	80	5500	3552	5990	2790	2340	1810	1980	3800	948	1242
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4552	6990	2790	2340	1810	1980	4035	948	2007
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4052	6490	2790	2340	1810	1980	3800	948	1742
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4552	6990	2790	2340	1810	1980	4035	948	2007
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4552	6990	2790	2340	1810	1980	4035	948	2007
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	5052	7490	2790	2340	1810	1980	4300	948	2242
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	4752	7190	2790	2340	1810	1980	4035	948	2207
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	5052	7490	2790	2340	1810	1980	4300	948	2242
20E09+Adapter	4	3500	1850	2000	750	2000 ¹⁾	80	5500	3200	5638	3070	2340	1810	1980	3450	948	1240
21R02	4	3500	1850	2000	750	2000 ¹⁾	80	5500	3800	6238	3070	2340	1810	1980	3800	948	1490
21R02	6	3500	1850	2000	750	2000 ¹⁾	80	5500	4052	6490	3070	2340	1810	1980	4035	948	1507
21R02	5	3500	1850	2000	750	2000 ¹⁾	80	5500	4552	6990	3070	2340	1810	1980	4035	948	2007

Load increased for light-chassis

Hobby Model	Model	Type	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Max. permissible drawbar load ³⁾	Maximum towing weight
FIAT Ducato X250											
V60 GF	Siesta Van	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
V65 GE	Siesta Van	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T60 FL	Siesta TI	F3	Ducato Light	---	---	---	---	---	---	---	---
T60 GQ	Siesta TI	F3	Ducato Light	---	---	---	---	---	---	---	---
T60 H	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T65 GE	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T65 GF	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T65 HGF	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T65 HFL	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T70 HGE	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T70 GQ	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
T70 HGQ	Siesta TI	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
A55 GS Sport	Siesta Sport	F3	Ducato Light	---	---	---	---	---	---	---	---
A60 GF	Siesta	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5500
A65 GM Family	Siesta Family	F3	Ducato Light	6	3650	1850	2000	750	1900	80	5500
A70 GM	Siesta	F3	Ducato Light	6	3650	1850	2000	750	1900	80	5500

All measurements in [mm]

all weights in [kg]

2) without wing mirror, without side blinker

3) tow coupling is a special accessory

4) 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 4000 / 4250 kg using a maxi chassis (cannot be combined with motorisation 115 PS)

Length of super-structure ⁴⁾	Total length	Height	Width 2)	Front tread width	Rear tread width	Wheel base	Front projection	Rear projection
3601	5999	2790	2180	1810	1790	3800	948	1251
4252	6690	2790	2180	1810	1790	3800	948	1942
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
3552	5990	2790	2340	1810	1980	3800	948	1242
4552	6990	2790	2340	1810	1980	4035	948	2007
4052	6490	2790	2340	1810	1980	3800	948	1742
4552	6990	2790	2340	1810	1980	4035	948	2007
4552	6990	2790	2340	1810	1980	4035	948	2007
5052	7490	2790	2340	1810	1980	4300	948	2242
4752	7190	2790	2340	1810	1980	4035	948	2207
5052	7490	2790	2340	1810	1980	4300	948	2242
---	---	---	---	---	---	---	---	---
3800	6238	3070	2340	1810	1980	3800	948	1490
4052	6490	3070	2340	1810	1980	4035	948	1507
4552	6990	3070	2340	1810	1980	4035	948	2007

Load increased for maxi-chassis

Hobby Model	Model	Type	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ²⁾	Braked trailer load ²⁾	Max. permissible drawbar load ²⁾	Maximum towing weight
FIAT Ducato X250											
V60 GF	Siesta Van	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
V65 GE	Siesta Van	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T60 FL	Siesta TI	F3	Ducato Maxi	4	4000	2100	2400	750	1800	80	5800
T60 GQ	Siesta TI	F3	Ducato Maxi	4	4000	2100	2400	750	1800	80	5800
T60 H	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T65 GE	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T65 GF	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T65 HGF	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T65 HFL	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T70 HGE	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T70 GQ	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
T70 HGQ	Siesta TI	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
A55 GS Sport	Siesta Sport	F3	Ducato Maxi	4	4000	2100	2400	750	1800	80	5800
A60 GF	Siesta	F3	Ducato Maxi	4	4250	2100	2400	750	1800	80	6050
A65 GM Family	Siesta Family	F3	Ducato Maxi	6	4250	2100	2400	750	1800	80	6050
A70 GM	Siesta	F3	Ducato Maxi	6	4250	2100	2400	750	1800	80	6050

All measurements in [mm]

all weights in [kg]

²⁾ without wing mirror, without side blinker³⁾ tow coupling is a special accessory⁴⁾ 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 4000 / 4250 kg using a maxi chassis (cannot be combined with motorisation 115 PS)

Length of super-structure ³⁾	Total length	Height	Width 1)	Front tread width	Rear tread width	Wheel base	Front projection	Rear projection
3601	5999	2817	2180	1810	1790	3800	948	1251
4252	6690	2817	2180	1810	1790	3800	948	1942
4052	6490	2817	2340	1810	1980	3450	948	2092
3800	6238	2817	2340	1810	1980	3450	948	1840
3552	5990	2817	2340	1810	1980	3800	948	1242
4552	6990	2817	2340	1810	1980	4035	948	2007
4052	6490	2817	2340	1810	1980	3800	948	1742
4552	6990	2817	2340	1810	1980	4035	948	2007
4552	6990	2817	2340	1810	1980	4035	948	2007
5052	7490	2817	2340	1810	1980	4300	948	2242
4752	7190	2817	2340	1810	1980	4035	948	2207
5052	7490	2817	2340	1810	1980	4300	948	2242
3200	5638	3097	2340	1810	1980	3450	948	1240
3800	6238	3097	2340	1810	1980	3800	948	1490
4052	6490	3097	2340	1810	1980	4035	948	1507
4552	6990	3097	2340	1810	1980	4035	948	2007

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
V60 GF	Siesta Van	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
V65 GE	Siesta Van	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T60 FL	Siesta TI	3500	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T60 GQ	Siesta TI	3500	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T60 H	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T65 GE	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T65 GF	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T65 HGF	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T65 HFL	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T70 HGE	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T70 GQ	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
T70 HGQ	Siesta TI	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
A55 GS Sport	Siesta Sport	3500	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
A60 GF	Siesta	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
A65 GM Family	Siesta Family	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68
A70 GM	Siesta	3500 / 3650	1850	2000	215/70 R 15 C	5 / 71 / 118	6 J x 15, ET 68

* No. of tyre bolts / centralising collars / bolt circle
Fiat rims either as steel or light alloy rims (original Fiat); identical measurements and with identical tyres.

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
V60 GF	Siesta Van	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
V65 GE	Siesta Van	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T60 FL	Siesta TI	4000	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T60 GQ	Siesta TI	4000	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T60 H	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T65 GE	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T65 GF	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T65 HGF	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T65 HFL	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T70 HGE	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T70 GQ	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
T70 HGQ	Siesta TI	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
A55 GS Sport	Siesta Sport	4000	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
A60 GF	Siesta	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
A65 GM Family	Siesta Family	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
A70 GM	Siesta	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68

* No. of tyre bolts / centralising collars / bolt circle
Fiat rims either as steel or light alloy rims (original Fiat); identical measurements and with identical tyres.

13.5 Accessory weights

Object	Weight [kg]	Object	Weight [kg]
2 additional loudspeakers in the living area	2.00	DOMETIC roof air conditioning Freshjet 2200, 230V (possible to omit Heki roof bonnet)	30.00
Additional AGM battery 12V / 92 Ah	28.00	DOMETIC-SEITZ roof bonnet Midi Heki 700 x 500 mm instead of Mini Heki at rear	4.50
Additional cushion for converting seating arrangement into a bed	2.00	DOMETIC-SEITZ roof bonnet Midi Heki, electrically driven, instead of Mini Heki at rear	5.50
Additional lower side window on driver's side at the rear end (450x260 mm, cannot be retrofitted)	1.40	Driver's and passenger's seats upholstered in interior fabric	3.00
Additional side window by the seating arrangement/entrance door (890x440 mm, cannot be retrofitted)	4.70	Electric wing mirror	0.50
Additional side window on driver's side by the alcove bed (450x260 mm, cannot be retrofitted)	1.40	ESP incl. ASR and hill holder	0.50
Additional side window on driver's side by the queen-sized bed (740x360 mm, cannot be retrofitted)	3.20	Extendable shelf for flat screen TV	3.00
Additional storage locker flap	4.70	External socket	0.40
Additional upper bed at rear end	17.00	Fastening rails/lashing rings in external storage locker	2.00
Air-conditioning in the driver's cab, automatic	21.00	Fiat chassis package	28.00
Antenna: Yachting 11 incl. antenna mast SF 50	2.30	FIAT Ducato 2.3 I - 130 Multijet II, 3,500 kg, FIAT low-frame, 6-gear manual, 2287 ccm, 96 kW/130 PS	15.00
Bed expansion incl. add. cushion and ladder	3.10	FIAT Ducato 2.3 I - 150 Multijet II, 3,500 kg, FIAT low-frame, 6-gear manual, 2287 ccm, 109 kW/148 PS	15.00
Bedsprad and decorative pillow	1.50	Fitted carpet, living room and driver's cab, removable	5.60
Bicycle carrier (also suitable for eBikes)	25.00	Fixed shower door instead of curtain	4.50
Bicycle carrier for 2 bicycles	8.00	Fog lights	3.00
Bicycle carrier for 3 bicycles	9.00	FROLI comfortable bed system incl. memory foam mattress	2.70
Bumpers, front, painted colour of vehicle	2.00	Fume hood	3.00
Clothes cupboard at rear end	12.50	Gas socket, external	1.50
Comfortmatic (automatic transmission) only in connection with 148 PS motor	32.00	HELLA battery sensor	0.90
Cruise control	0.50	HOBBY starter package	42.10 - 61.10

Object	Weight [kg]	Object	Weight [kg]
Insect screen for entrance door	3.50	TELECO SAT antenna with autom. orientation 65 cm, 12V /230V	16.00
LED flat screen 19" incl. tuner/receiver	5.90	TELECO SAT antenna with autom. orientation 85 cm, 12V /230V	18.00
Light alloy rims	0.00	THULE-OMNISTOR sun awning 300 cm	23.00
Load increased from 3.5 t to 3.65 t without technical changes	0.00	THULE-OMNISTOR sun awning 325 cm / 350 cm	27.00
Load increased from light chassis 3.5 t to maxi chassis 4 t	40.00	THULE-OMNISTOR sun awning 400 cm	31.00
Load increased from light chassis 3.5 t to maxi chassis 4.25 t	40.00	THULE-OMNISTOR sun awning 450 cm	42.00
"Montana" cushion material	0.00	Tow coupling	35.00
Mud flaps, rear	2.00	TRUMA DuoControl incl. crash sensor and de-icer	2.10
Outside shower	0.50	TRUMA heating Combi 6E instead of Combi 4	1.10
Oven	16.00	TRUMA heating Combi 6E instead of Combi 6	.10
Passenger airbag 3.00		TRUMA MonoControl CS (crash sensor)	1.00
Passenger seat also movable to the side	18.00	Waste water tank, insulated and heated	0.50
PIONEER Moniceiver AVH-2500BT incl. navigation, rear view camera and remote control	4.70		
Pre-installation of radio	0.50		
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 bonnet alcove	3.10		
Roof rail incl. rear ladder (includes 2 cross bars)	18.00		
Roof window in driver's cab (cannot be retrofitted)	11.00		
SAT receiver, digital, 12 V	2.00		
Slim Tower	8.00		
Tail stanchions	6.00		

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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:

Technically permissible overall mass:		
Mass when the vehicle is ready to start (incl. gas, water, electricity, driver and fuel):	-	
Conventional load (no. of seats [excl. driver] x 75 kg):	-	
Additional equipment:		
1.)	-	
2.)	-	
3.)	-	
4.)	-	
5.)	-	
6.)	-	
7.)	-	
8.)	-	
9.)	-	
10.)	-	
11.)	-	
12.)	-	
13.)	-	
14.)	-	
15.)	-	
Personal luggage = $(10 \times N) + (10 \times L)$:	-	
N - Total number of seats (incl. driver)		
L - Length of vehicle in meters		
Remaining load:		



Under no circumstances may the technically permissible overall mass of the motor home be exceeded!

Hobby-Wohnwagenwerk

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