

Manual Motor home Van Exclusive, Toskana Exclusive and Sphinx











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.
- If the temperature outside is below 0° C, heat the vehicle before filling up the water system.
 - Please refer to the section on water supply/filling the fresh water tank.
- . Tighten the wheel nuts after having driven the first 50 km.
- · Switch off all fitted devices that operate on gas before filling the petrol tank.
- Tightly strap gas bottles in the gas bottle box during transportation.
- . When camping in winter, heat the vehicle at night if there is danger of frost.
 - Please refer to the section on operating in winter/heating.
- · Keep compulsory ventilation clear.
 - Please refer to the section on windows/roof fan/airing.
- · When the vehicle is not in use, empty the entire water system and leave the water faucets open in a neutral position. This prevents the water system from being damaged by frost.
 - Please refer to the section on emptying the water system.

1.3 Designations in the operating instructions

This manual explains the motor home in the following manner:

Texts and illustrations

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

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



Lists

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



Handling instructions

Handling instructions are also given in the form of key words beginning with the symbol "•".

Notes



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

Warnings



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

Environmental Tips



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



Chapter 2: Safety

2.1 General information

- Ensure that there is sufficient ventilation. Never cover builtin 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 registred 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, 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.

2.4 What to observe before taking your first drive

Vehicle registration

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

You must show the following when applying for registration:

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

General inspection

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



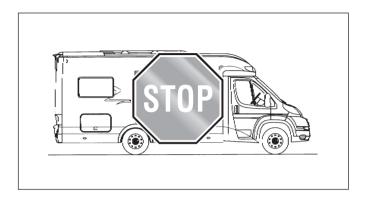
The general inspection can be carried out by the German Technical Surveyance Association (TÜV), the German Engine Vehicle Surveyance Association (DEKRA) or an officially approved expert.



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



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



2.5 Before and while driving

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

Preparing the vehicle

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

Preparing the vehicle

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



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

Interior

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

Preparing the interior

- Sort loose objects and stow them in the compartments.
- Place heavy objects in the lower compartments.
- If necessary switch the refrigerator to 12 V operation.

- Ensure that no liquids, including those in the refrigerator, will leak.
- · Secure accelerator cylinders.
- Fold down and secure the table.
- Fold up the fold-away bed (if there is one)
- Turn off interior lights.
- Secure the table and, if possible, lower it.
- Close doors (including refrigerator door), drawers and flaps firmly.
- Heavy and/or voluminous objects (e.g. TV, radio) must be secured before driving.
- Brace the safety device for the table.
- Completely open and secure the optional cockpit dimming system.
- Lock and secure the washroom sliding wall.



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



Place a 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.

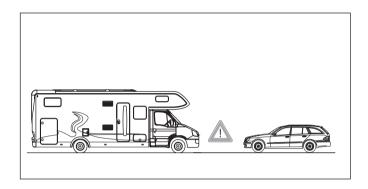
In addition:

- 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 all the lights working (headlights, dipped headlights, brake lights and indicators)?



2.6 Notes for your journey

Your motor home is not an automobile!

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

Loading

The following applies for loading:

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



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

Roof load (50 kg maximum)

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

The following applies for roof loads:

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

Rear garage

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



- The maximum permissible load for the rear external storage locker is 200 kg (Fiat) or 350 kg (Iveco).
- On no account should the permissible rear axle load be
- 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 engine home. Due to the relatively long rear overhang larger vehicles can veer to one side and, in unfavourable conditions, the rear can hit the ground.
- Be careful when driving into inner courtyards and through entrance gates.
- The motor home may start to swing from side to side in cross-winds, on wet or icy roads.
- Adjust your speed to road and traffic conditions.
- Long descents with a slight gradient can become dangerous. Adjust your speed from the very beginning to allow you to speed up if necessary without endangering other automobiles.
- As a general rule, never drive faster downhill than uphill.
- The motor home may be caught up in a slipstream when overtaking or being overtaken by lorries with trailers or buses. This effect is counteracted by lightly counter-steering.
- Use foresight while driving; take regular breaks on longer drives.

Driving arround corners

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

The following applies for driving arround corners:

Never drive too guickly into a corner!

Driving economically

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

The following applies when driving:

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

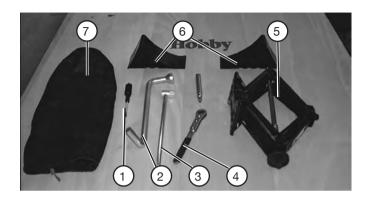
Getting petrol

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

The following applies when getting petrol:

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

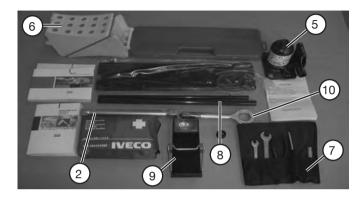




2.7 Vehicle tool kit

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

- screwdriver (1)
- nut wrench (2)
- nut wrench (3) (only if the vehicle is equipped with levelling supports)
- ratchet wrench (4)
- car jack ⑤
- chocks (6)
- tool bag (7)
- tool bag (8)



- pilot lamp (9)
- towing eye (10)

2.8 Emergency equipment

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

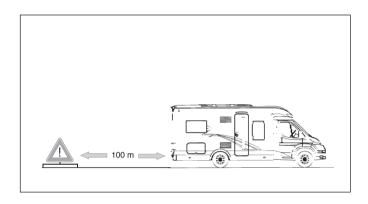
First-aid kit

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

Reflective jacket (not included in scope of delivery)

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

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



Warning triangle

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

In an emergency

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



2.9 When you stop driving

Selecting a parking space

The following applies for selecting a parking space:

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

Securing the vehicle

The following applies when securing the vehicle:

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



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



When turning the driver' seat, ensure that you do not accidently 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).
- Attach the insulating mat between the driver's cab and the interior of the motor home (not included in scope of delivery) or, for the Sphinx model, completely shut the sliding door to the driver's cab.
- Open the outside door as seldom and briefly as possible.
- If you are camping in winter, attach a small outer tent. This will offer protection against the cold.



Chapter 3: Chassis

3.1 Chassis

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



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



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

3.2 Loading



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

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



Please refer to the definition of masses for motor homes!

Definition of Masses for Motor homes

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

1. Technically permissible overall mass

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

2. Mass when the vehicle is ready to start

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

3. Basic equipment

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



	FIAT Toskana Exclusive, Van Exclusive, Toskana (LE)	IVECO Sphinx
a) Supply of liquefied petroleum gas		
Number of built-in gas regulators:	1	1
Weight of an 11 kg aluminium bottle:	5,5	5,5
Weight of 11 kg gas inflation (90 %):	9,9	9,9
Total:	15,4	15,4
b) Liquids		
200 I fresh water tank (90 %)	-	180
100 I fresh water tank (90 %)	90	-
10 I fresh water tank (90 %)	-	-
c) Electric power supply		
Cable drum	4	4
Total basic equipment:	109,4 kg	199,4 kg



4. Loading

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



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



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





3.3 Levelling supports (Optional Extra)

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

Swinging out the levelling supports

- Place the crank on the 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 foot will extend telescopically.
- Use the crank to level the levelling supports until the vehicle stands level.



Retracting levelling supports

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

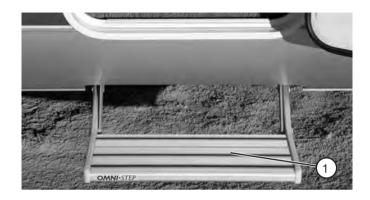


- Do not use the levelling supports as a car jack. Their sole purpose is to stabilise the motor home when it is parked.
- Always load the levelling supports evenly.
- Always retract the levelling supports and secure them before driving.
- Clean the levelling supports regularly and grease them slightly.



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





3.4 Entrance step

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



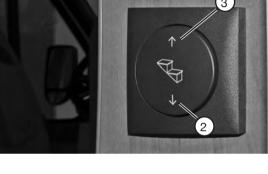
Do not step on the entrance step until it has been completely extended!



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



Always retract the entrance step before driving!



To open

• Press the switch (2) in the entrance area down. The entrance step will be extended automatically.

To close

• Press the switch (3) in the entrance area up. The entrance step will be retracted automatically.



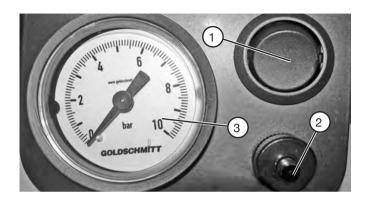
If, due to dirt or frost, the entrance step does not function properly or at all, the hinges must be cleaned or defrosted.





3.5 Vehicle identification number (VIN)

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



3.6 Additional pneumatic springs

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

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



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



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

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



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



Please check Iveco's User Manual for information on how to operate the pneumatic suspension of the Iveco Daily.



3.7 Towing fixture (Optional Extra)

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



Adhere to the permissible tow bar load and rear axle load, in particular in conjunction with loading of the rear garage.

Simultaneous use of the towing fixture and the rear load carrier is not permitted.

While manoeuvring to hitch and unhitch loads, ensure that no-one is standing between the motor home and the trailer.





The D 75 models have a removable tow-bar. We recommend that you remove this when it is not required.



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

3.8 Externally mounted fixtures

Registering accessories in the vehicle's documents

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



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



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

3.9 Automatic transmission

As an option, your motor home can be equipped with an automatic transmission (Fiat: Comfort-Matic; Iveco: Agile) which has two methods of operation: MANUAL 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.

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. However, by pressing the lever you can still shift gears without having to switch off the AUTO mode of operation. 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 vou 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



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



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





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



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



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

Chapter 4: Wheels, tyres, brakes

4.1 Wheels

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

Tightening torque for wheel nuts and bolts:

Rim size	Fiat Ducato	Iveco Daily
16''	180 Nm	290 - 350 Nm
15''	160 Nm	_

4.2 Tyres

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

Driving to protect your tyres

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



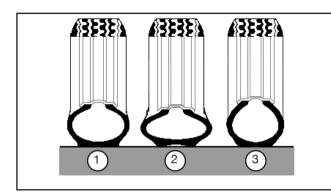
Tubeless tyres have been mounted on your HOBBY motor home. Under no circumstances may tubes be inserted in these tyres!



Winter 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 as well as the spare tyre should be checked approx. every 4 weeks and before you go on longer journeys.

The following applies when checking inflation pressure:

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

The following applies for inflation pressure:

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



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



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

4.4 Tread depth

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



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

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

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



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

Tyre manufacturers' recommendations

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



4.5 Wheel rims

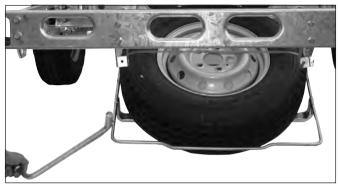
Use only those wheel rims listed in the vehicle's documents. Please observe the following points, should you wish to use other wheel rims.

The following applies when using other wheel rims:

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

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

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



Spare tire on the AL-KO chassis

4.6 Spare tire



A spare tire is part of the scope of delivery only for tandem axle vehicles with an AL-KO chassis (D 75) and the Sphinx models.

To remove the spare tire on the AL-KO chassis, use a hexagon spanner to remove the two screws on the spare tire holder. Insert the crank on the left-hand side of the spare tire holder, unhinge the tire holder, lower the spare tire to the ground and remove it.



For information on the Iveco spare tire, please refer to the operating instructions for the base vehicle.



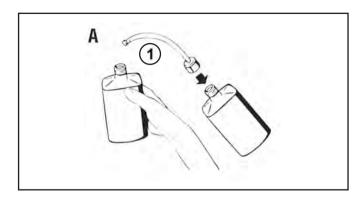


4.7 Tyre repair kit

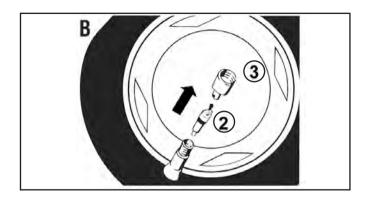
Do not use the tyre repair kit if the tyre was damaged as a result of driving without air. Small cuts, especially in the tyre tread, can be resealed using the tyre repair kit. Do not remove foreign bodies (such as screws or nails) from the tyre. The tyre repair kit can be used at outside temperatures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



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

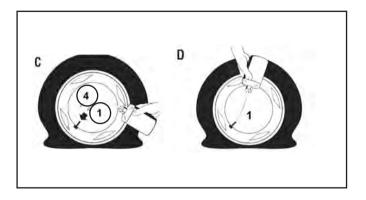


Shake the bottle. Open the fill hose (1) on the bottle (foil seal is thereby punctured).

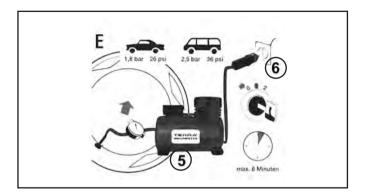


B Unscrew the valve cap from the tyre valve.

Remove the valve insert ② with the valvecore remover
③. Do not lay the valve insert ② down in sand or dirt.



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



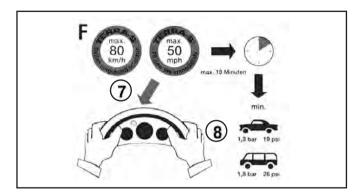
Open the air hose (5) on the tyre valve. Insert the plug (6) into the cigar lighter socket. Then pump the tyres (Fig. (7)). do not operate the electric air pump longer than 8 minutes! Danger of overheating! If sufficient air pressure is unattainable, drive 10 meters (either forward or in reverse) so that the sealant can be evenly distributed within the tyre. Repeat the pumping process. Resume driving immediately, so that the sealant can be evenly distributed within the tyre.

Maximum speed: 80 km/h. Especially in curves. Check tyre pressure after driving 10 minutes. If the tyre pressure has fallen under this minimum value (8), you may not drive any further.

If the minimum value is still indicated (8) correct the tyre pressure according to Table 12.2. Drive carefully to the nearest workshop and have the tyre replaced.



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



F Adhere the provided sticker to the combination panel within sight of the driver. Dispose of used tyre repair kit at a service station.



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

Warning when changing the tire



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.

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.



- 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.

4.8 Brakes

The components in the brake system are part of the General Type Approval ("Allgemeinen Betriebserlaubnis", ABE). If you change the components in the brake system, the type approval expires. Any changes are only possible if they have been released by the manufacturer.



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

The following applies when maintaining the brake system:

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



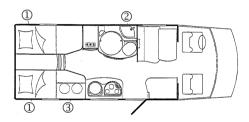
For further information, please refer to the Fiat Ducato or Iveco Daily operating instructions.



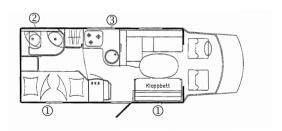
Chapter 5: Exterior Structure

5.1 Overview of tank and service flaps

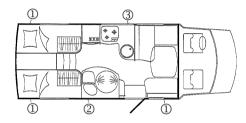
60 ES Van Exclusive



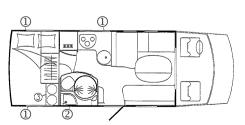
60 KL Van Exclusive



69 EL Toskana Exclusive



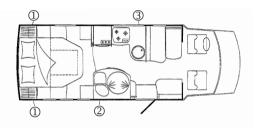
69 GL Toskana Exclusive



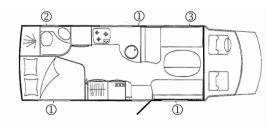
Storage flap (1) Toilet flap (2)

Gas box flap (3)

69 QS Toskana Exclusive



75 FL Toskana Exclusive



75 TL Toskana Exclusive

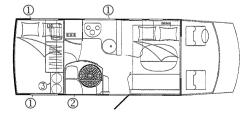


Storage flap (1)

Toilet flap ②

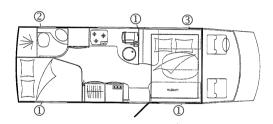
Gas box flap (3)

H69 GL Toskana Exclusive

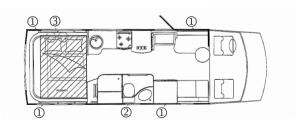




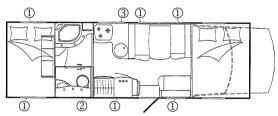
H75 FL Toskana Exclusive



H75 UC Toskana Exclusive

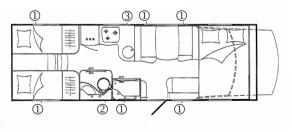


A77 GM Sphinx



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





Hobby

5.2 Ventilation

The following applies for ventilation:

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

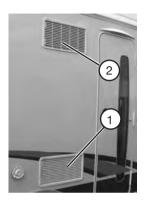
Appropriate covers can be used to close the ventilation of the refrigerator, provided it does not run on gas.

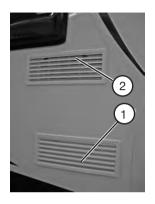


Note the information given on the covers. They may only be used when the refrigerator is operated electrically in winter. For more information, please refer to the refrigerator manufacturer's operating instructions.



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





Refrigerator

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

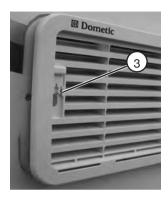


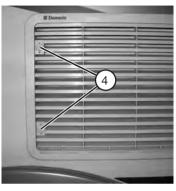
Danger! You can suffocate if the ventilation openings are blocked! Never block ventilation openings.



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









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

Removing the ventilation grate

- Push the lock(s) (3) up as far as they will go or turn the lock(s) (4) to the right (for Thetford: push both locks towards the centre).
- Carefully lift open the ventilation grid on the left-hand side (Thetford: lift up).
- Then pull the right-hand side out of the bracket (Thetford: press the lower edges down out of the bracket).



Heating

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



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



5.3 Opening and closing doors and flaps

Keys to the vehicle

The following keys are delivered with the motor home:

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



Note the manufacturer's operating instructions for the basic vehicle

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



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



Entrance door external

Opening

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

Closing

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





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



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



Entrance door internal

Opening

· Push the bolt down.



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.



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



Stowage flap

To open

- Unlatch the lock with the key.
- Place your hand over the lock and press the flap firmly inwards.
- Depending on which model you have, swing the flap up or to the side.

To close

- Swing the flap down or to the side.
- · Latch the lock with the key.





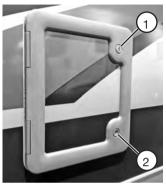
Garage (storage locker) flap

To open

- Unlatch the lock with the key.
- Place your hand over the lock and press the flap firmly inwards.
- Swing the flap to the side.

To close

- Swing the flap shut.
- Latch the lock with the key.





Toilet flap

To open

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

To close

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



Exterior gas supply

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

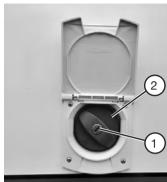
Opening

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

Closing

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





Fresh water filler neck

Opening

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

Closing

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

Hobby



Tank filler cap

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

Opening

• Pull the flap open by inserting your finger into the convex opening (1) and pulling it outwards.

Closing

• Push the flap until it locks.



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



5.4 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 overall load is 50 kg.



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



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



5.5 Bicycle carrier (Optional Extra)

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:

- Even if loading is perfect the critical speed is dramatically reduced.
- 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 the bicycle carriers are 50 kg.



Due to the construction method of the rear wall, the manufacturer has not planned bicycle carriers for the Sphinx models.

5.6 Load carrier (Optional Extra)

Your motor home can subsequently be fitted with a carrier from an accessory dealer which, for example, is equipped with a modification kit for attaching a motorcycle or motor scooter. The driver is responsible for the safe and stable fastening of the load.



- The chassis of the motor home has been designed to carry a maximum load of 130 kg.
- Never exceed the permissible rear axle load.
- The load carrier reduces the rear ramp angle of the vehicle. When driving over uneven surfaces the carrier can touch the ground.
- When the load carrier is fully loaded the rear axle is subject to an additional load and the front axle is unloaded.
 This can result in significant changes in the motor home's handling, steering and braking performance.
- The rear number plate must be centrally mounted between the load carrier's number plate lights.



 Please note, when the load carrier is in use it is forbidden to use any existing towing fixture which may still be accessible simultaneously.





5.7 Sun awning (Optional Extra)

Depending on the model, your motor home has an awning that is either integrated in the edge trim or attached 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.

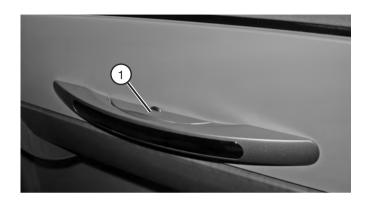


Chapter 6: Interior Structure

6.1 Opening and closing doors and flaps



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



Stowage cabinets

To open

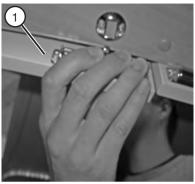
- Press the pushbutton (1) to unlock the flap.
- Pull on the handle until the flap opens.

To close

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







Kitchen cupboard doors

Depending on the model, concealed locking handles have been fitted.

To open

- Turn the handle (1) (located directly behind the flap) down.
- Pull on the flap until it opens.

To close

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



Front stowage cabinets

To open

• Pull on the handle and swing the flap up.

To close

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



Store only light objects in the upper stowage cabinets.





Furniture doors with handle

Push the handle to open and shut the door.



Furniture doors with turning knob

• Turn the knob to open or shut the door.



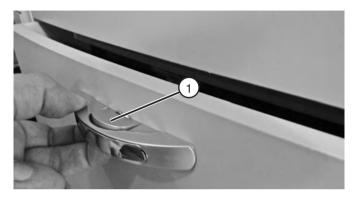
Doors with snap locks

To open

- Briefly push the door handle until it snaps open.
- Open the door.

To close

• Push the door handle until the lock snaps into place.



Drawers with a pressure lock

To open

- Press the push-button (1) to unlock the pull-out.
- Pull on the handle until the pull-out opens.

To close

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





Doors with push locks

To open

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

To close

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



Bar in the entrance area (layout/model-specific)

To open

• Pull on the handle and swing the door outwards.

To close

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



Sliding doors

Cupboard under the bed, washroom door

To open

 Grasp sliding doors by the centre bar and push them both outwards.

To close

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



6.2 Television holder for flat-screen monitor

To unlock, press in on the metal rail (1). Then 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.







TV mount for flat screen TV, 3-way universal hinged bracket

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





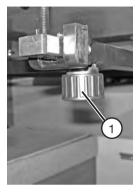
6.3 Tables

Lowering the table in the centre seating arrangement

- Push the switch ① on the table leg up.
- Fold in the lower part of the table leg until you feel it click into place.
- Unhinge the table and hook it to the lower fastening.



This table is not fastened to the floor. Before driving, lower the table and secure it to prevent it from shifting.



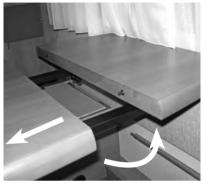
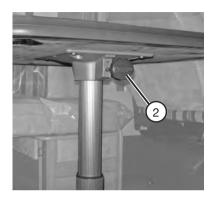


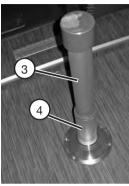
Table extension

- Turn the wheel (1) under the table until the table is loose.
- Lift the table slightly and pull it out until the extra leaf is fully visible.
- Swing the leaf upwards towards the side wall.



Push the table towards the leaf and place them in the appropriate openings.



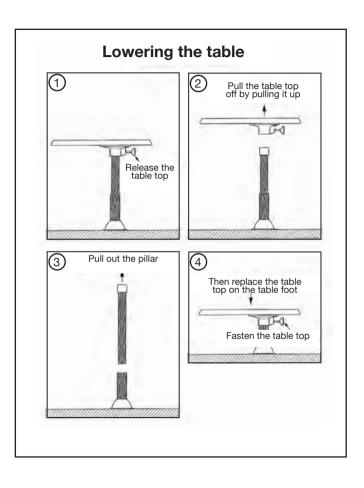


Pillared table

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

To lower

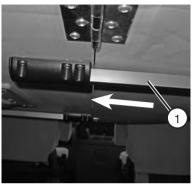
- Lock the swivel lock on the table top by firmly tightening the knurled wheel ②.
- Pull the table top off by pulling it straight up.
- Pull the middle section of the pillar ③ off the foot ④ and remove it.
- Place the table top on the foot 4.





Turning function of the pillared table

- Loosen the swivel lock on the table top by loosening the knurled wheel (2).
- Swivel the table top to the desired position.
- Lock the swivel lock of the table top.



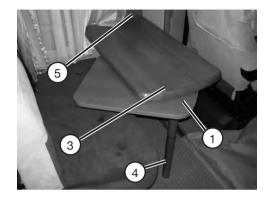


Folding down the edge of the table

The table in the seating arrangement has an edge that can be folded down (layout/model-specific) to provide you with more room for moving in the vehicle.

Function

- Push in the supporting rails (1) under the main part of the table.
- Lower the edge of the table slowly; do not let it drop down.

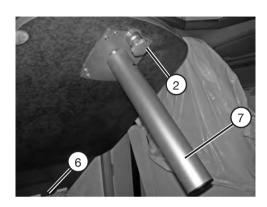


Hanging table

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) and use the locking pin (2) to lock it.
- Raise the front end of the table top (3) by approx. 30°.
- Pull down the lower section of the table foot 4 and remove
- Pull the table top out of the upper wall bracket (5).
- Raise the front end of the table top by approx. 30° and hook it into the lower wall bracket (6).



• Place the shortened supporting leg (7) at the front edge of the table top on the floor.

To swivel out

- Pull the locking pin (2).
- Swivel the lower table top (1) to the desired position.

Hobby

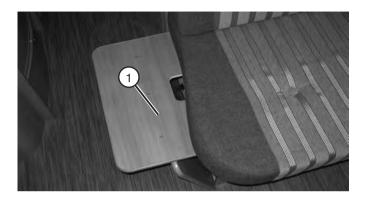


6.4 Bed conversion

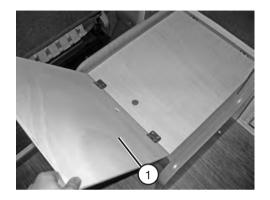
The seating arrangements can be rearranged as comfortable beds for sleeping.

To rearrange

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



- Pull out the extension of the bed (1) and place additional cushions along the outer wall.
- Place the cusions from the seating arrangement on top and pull them together towards the middle of the table.
- Fill the empty spaces with the backrests. To do this, turn the backrests around and place them with the wider side towards the front or back wall.



Converting the Transverse Seat

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

Conversion

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





Widening the beds (Optional Extra)

In those models with individual beds above the rear garage, the two beds can be widened or joined by folding out an additional plank.

- Open the flap ① under the additional plank and take out the access ladder.
- Fold the additional plank ② forward and hook the access ladder securely into the appropriate holes.
- Place the two additional cushions on the surface.





Alcove berth

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

- Use the remote control ② to automatically raise or lower the alcove berth.
- Press on the arrows to move the bed up or down.
- Use the ladder (1) to climb up into the alcove.



If you frequently change the position of the alcove bed within a brief period of time, this may result in a malfunction and the bed can no longer be raised or lowered. In this case, press both of the arrow keys on the remote control simultaneously for approx. 2 seconds. The alcove bed will then do a test run and be raised. After this has finished, you can operate the alcove bed normally again.

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

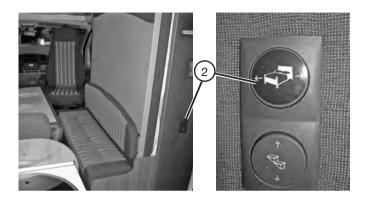






- For protection, the alcove berth function can be switched off (0).
- Turn the key from (1) to (0) and pull it out. The alcove berth can no longer be moved.

- The maximum load for the alcove berth is approx. 200 kg.
- Never use the alcove berth without setting up the safety mesh.
- Never leave children unminded in the alcove berth.
- The alcove berth must be raised before driving.
- Ensure that the lights attached underneath the alcove berth are turned off.



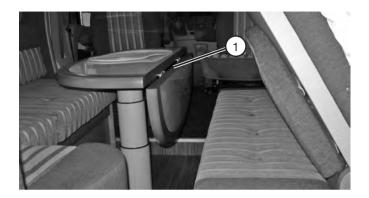
Fold-away bed

The 60 KL Van Exclusive model has a fold-away bed that can be lowered from above the seating arrangement as an additional bed.

To operate

- In order to use the bed, you must first fold down the edge of the table. (1)
- Use the switch in the entrance area (2) to move the bed to the middle of the vehicle. Once it has reached the correct position, the bed will automatically stop.

Hobby

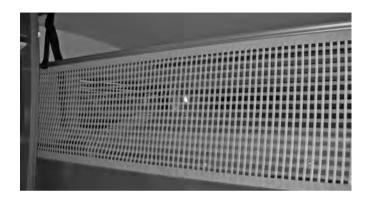


- Slowly lower the bed manually (a pneumatic spring gives you assistance). At the same time, the pillared table will automatically be lowered.
- To return the bed to its storage position, first fold it up and then use the switch to move it back to its original position.



- Lower the fold-away bed slowly; do not let it drop suddenly.
- Before driving, the fold-away bed must be in its storage position.
- Ensure that there are no objects on the table and seating benches.
- When raising the fold-away bed and returning it to its storage position, ensure that there are no objects between the bed and the side wall.
- The fold-away bed can hold a maximum load of 200 kg.





6.5 Elevated berths

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



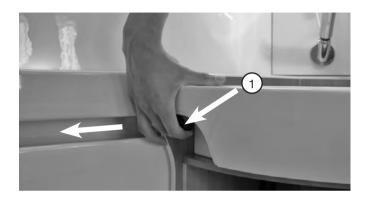
If you have put small children in the upper berths, secure them against the danger of falling out!

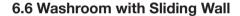




The windows by the children's beds are secured against unintentional opening to prevent children from falling out of them.

The maximum permissible loading for the upper child's bed is 45 kg.





You can slide the washroom elements in the Siesta 65 FL model in order to use the shower.

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





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



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



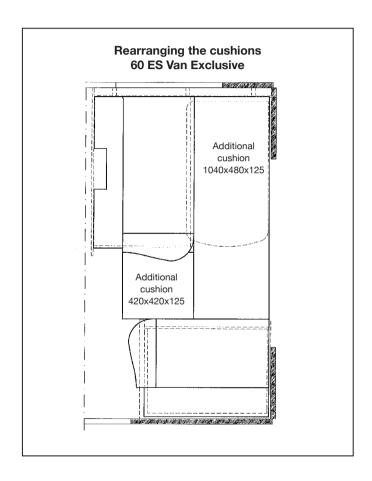
While driving, the washroom with Sliding Wall must be firmly secured and locked into its basic position.



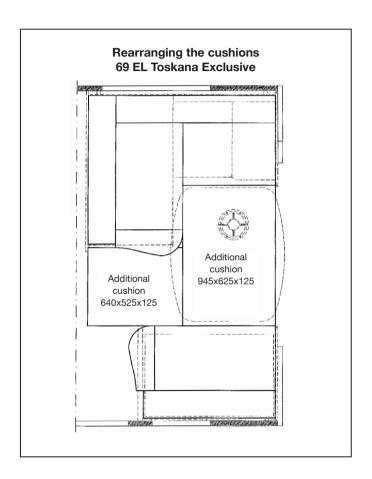
6.7 Cushion arrangements (Back cushions: Optional Extra)

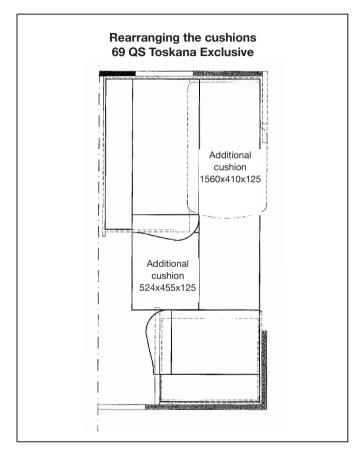
The back cushions delivered by the manufacturer have an ergonomic shape and, therefore, they cannot be used when converting the arrangement into a bed.

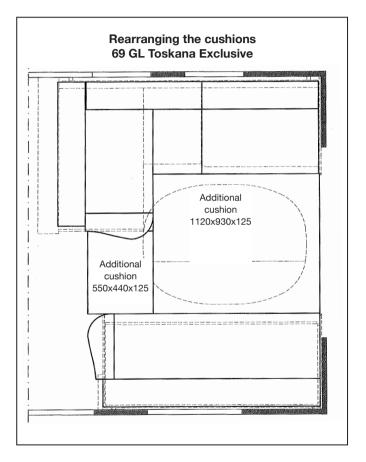
As an option, the back cushions are available as a Optional Extra.

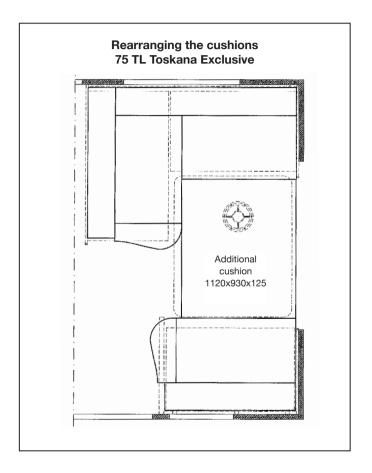




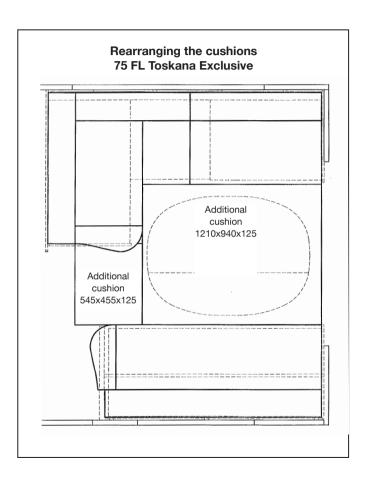


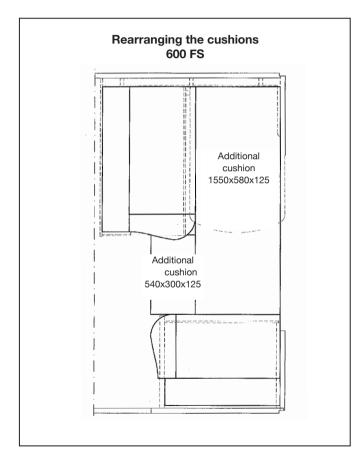


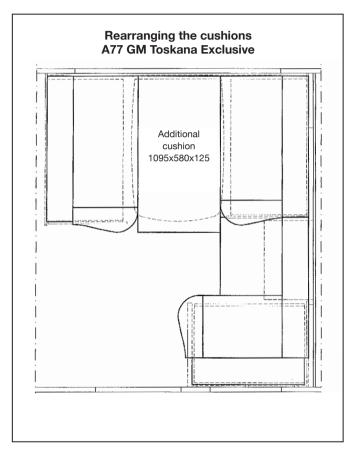


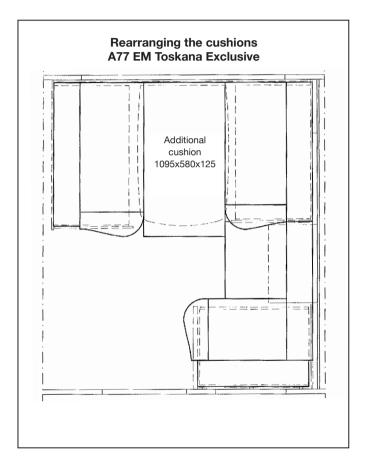


Hobby









Hobby



6.8 Windows

Knockout windows with locking hooks

Opening

- Press the knob of the bolts and turn them to a vertical position.
- Press the window outwards until you hear a click. The window will automatically remain in this position. The width of the opening is adjustable in several stages.

Closing

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



Combined sunshade and insect screen

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

Adjusting the sunshade

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

Shifting the insect screen

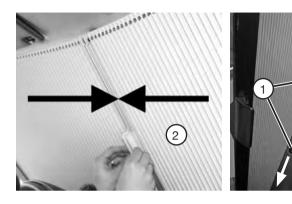
• Push the sunshade down and use the latch of the insect screen to push it to the desired position.





Skylight

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



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

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

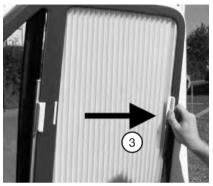
Open the dimming system whenever you are not using your motor home, as otherwise it will be permanently damaged by the effects of heat and UV rays.



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







Front system (2)

- To open the locking mechanism, push the locks (1) outward. (Press the lock 4) together)
- Press the clasp together in the middle. The magnetic lock will automatically lock.

Side system (3)

Draw the clasp across to the rabbet. The magnetic lock will automatically lock.

6.10 Skylight

Safety instructions



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



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



Before driving, ensure that the skylight is securely bolted.





Small roof bonnet Opening



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

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

Closing

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

Hobby





Large roof bonnet

Opening

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

Closing

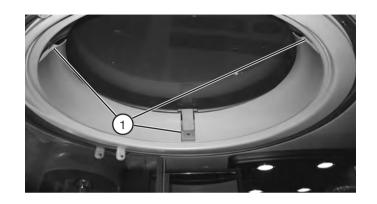
 Turn the crank anti-clockwise until the skylight is closed and you can feel resistance. The crank can be folded back into the crank niche when the skylight is closed. To ensure safe closure the crank should be folded back into the crank niche. Check the skylight is closed by pushing against the glass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

Dimming shade

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

Insect screen

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



Round roof light

To open

- Pull the lower end of all three locking mechanisms (1) towards the middle of the window and release them.
- Push the full surface of the roof bonnet up until it locks into place.

To close

- · Close the roof bonnet.
- Press the locking mechanisms (1) firmly until they lock into place.





6.11 Pivoting seats in the driver's cab



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



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

Swivelling seats

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



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







Cushion fastenings

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

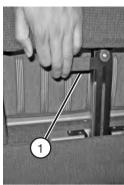


Ensure that the seat cushions and backrests are fastened securely and correctly.

Setting the height of the head rests

• Take hold of the cushion on the head rest and push it to the desired position.





Arm rest in the seating arrangement (model-specific)

To extend

• Pull the arm rest up until you feel it lock into place.

To retract

- Pull the safety clamp (1) up until the arm rest is released.
- Slowly lower the arm rest.



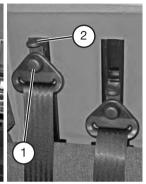


Converting the L-shaped seating arrangement

If you wish to use the outer seat in models with an L-shaped seating arrangement or the seats in the H75 UC model, you must convert these before you start to drive.

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





Additional belt rack

As an option, the Sphinx models can be fitted with a socalled belt rack facing towards the rear, which increases the number of seats that can be used while driving from four to six.

The height of the belt connector can be adjusted manually by pressing knobs ① and ②.



When using the vehicle with 6 people, ensure that the permissible axle loads as well as the technically permissible maximum weight is not exceeded.

Hobby



6.13 Seatbelts in the caravan

The seats in the middle seating arrangement facing the direction of traffic have been fitted with seatbelts.



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.

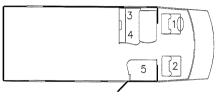


- Fasten seat belts before driving and keep them fastened while driving.
- Do not damage or jam the seatbelts. Damaged seatbelts should be replaced by an authorised workshop.
- Do not alter the seatbelt fixings; the automatic retraction system or the buckles.
- Only use each seatbelt for one adult. Do 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.



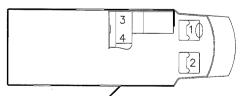
6.14 Overview of the seating arrangements

60 ES Van Exclusive



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

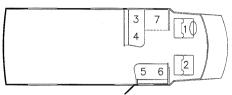
60 KL Van Exclusive



Seats 1 - 4: may be used while driving.

Hobby

69 EL Toskana Exclusive



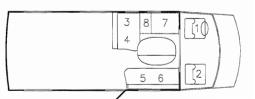
Seats 1 - 3: may be used while driving Seat 4: may be used while driving if the permissible maximum weight = 4,000 kg/4,250 kg.
must not be used while driving if the permissible

Seat 4:

maximum weight = 3,500 kg.

Seats 5 - 7: must not be used while driving.

69 GL Toskana Exclusive



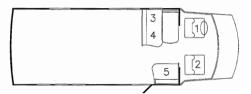
Seats 1 - 3: may be used while driving

may be used while driving if the permissible maximum weight = 4,000 kg/4,250 kg. Seat 4:

must not be used while driving if the permissible Seat 4:

maximum weight = 3,500 kg.
Seats 5 - 8: must not be used while driving.

69 QS Toskana Exclusive

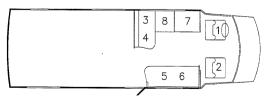


Seats 1 - 3: may be used while driving Seat 4: may be used while driving if the permissible

maximum weight = 4,000 kg/4,250 kg. must not be used while driving if the permissible maximum weight = 3,500 kg. must not be used while driving. Seat 4:

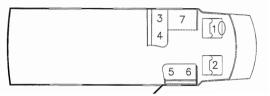
Seat 5:

75 FL Toskana Exclusive



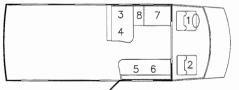
Seats 1 - 4: may be used while driving. Seats 5 - 8: must not be used while driving.

75 TL Toskana Exclusive



Seats 1 - 4: may be used while driving. Seats 5 - 7: must not be used while driving.

H69 GL Toskana Exclusive



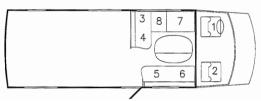
Seats 1 - 3: may be used while driving
Seat 4: may be used while driving if the permissible
maximum weight = 4,000 kg/4,250 kg.
Seat 4: must not be used while driving if the permissible

maximum weight = 3,500 kg.

Seats 5 - 8: must not be used while driving.



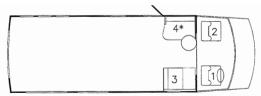
H75 FL Toskana Exclusive



Seats 1 - 4: may be used while driving.

Seats 5 - 8: must not be used while driving.

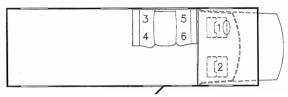
H75 UC Toskana Exclusive



Seats 1 - 3: may be used while driving

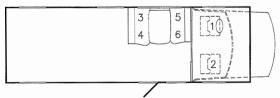
*Seat 4: Only for the optional additional belt rack. If the additional belt rack has not been fitted as an option, this seat may not beused while driving.

A77 GM Sphinx



Seats 1 - 4: may be used while driving

A77 EM Sphinx



Seats 1 - 4: may be used while driving

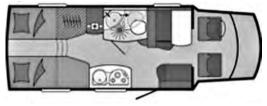
*Seat 5 - 6: Only for the optional additional belt rack. If the additional belt rack has not been fitted as an option, this seat may not beused while driving.

Hobby

^{*}Seat 5 - 6: Only for the optional additional belt rack. If the additional belt rack has not been fitted as an option, this seat may not beused while driving.

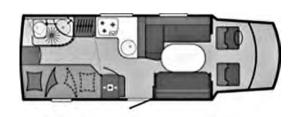
6.15 Overview of day and night positions

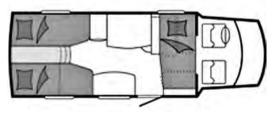
60 ES Van Exclusive



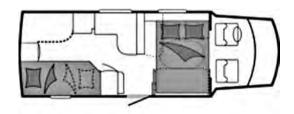
Day position

60 KL Van Exclusive

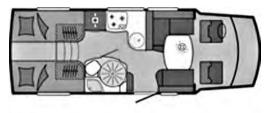




Night position



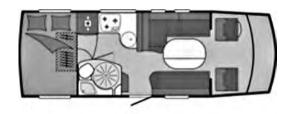
69 EL Toskana Exclusive

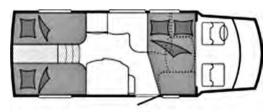


Day position

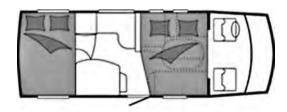








Night position



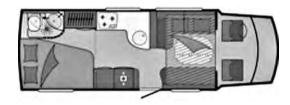


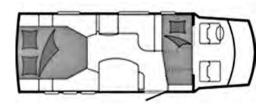
69 QS Toskana Exclusive



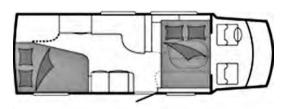
Day position

75 FL Toskana Exclusive





Night position



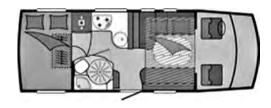


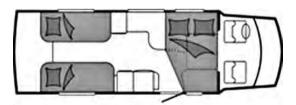
75 TL Toskana Exclusive



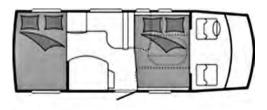
Day position

H69 GL Toskana Exclusive



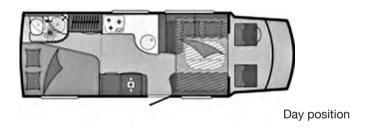


Night position

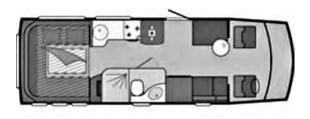


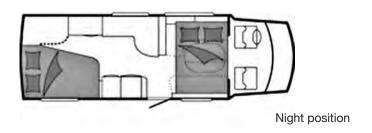


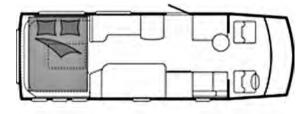
H75 FL Toskana Exclusive



H75 UC Toskana Exclusive

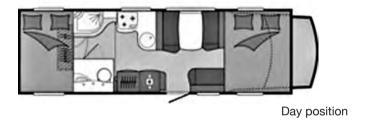




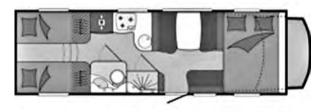


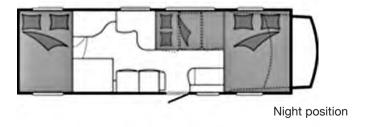
Hobby

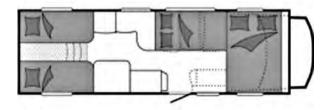
A77 GM Sphinx



A77 EM Sphinx







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.
- Use only weatherproof, 3-wired extension cable and shockproof plug or CEE plug and coupler when hooking up to an external 230 V network.

7.2 Elements of the electrical system

The electric power supply is provided via the HOBBY on-board control panel in connection with an automatic battery charger.

Main elements of the electrical system

- CONTROL PANEL –
 Controls the electrical consumers and shows their status.
- 12V DISTRIBUTION MODULE Main relay, battery parallel relay (12V 70A), refrigerator relay, pump relay, charging facility B1, safety fuses.
- BATTERY CHARGING DEVICE -Charges the battery in buffer operation
- PROBE WITH RODS Measures the contents of the fresh water tank
- PROBE WITH SCREWS -LED display shows when waste water tank is full
- MODULAR BATTERY WITH CIRCUIT BREAKER Supplies all electrical devices
- VEHICLE BATTERY
- GENERATOR loads both the vehicle and consumer batteries at the same time
- 230V MAIN SWITCH supplies and protects the 230V consumers
- 50A FUSES VEHICLE/ and CONSUMER BATTERIES



Advice and instructions

Important

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

Batteries

- Please observe the battery manufacturer's operating instructions.
- The acid in the battery is poisonous and corrosive. Avoid contact with eyes and skin.
- The completely discharged battery must be recharged for at least 10 hours. The battery may be damaged if it has been discharged for more than 8 weeks.
- Avoid total discharge since this significantly reduces the performance capacity and service life of the batteries.
- Check the level of the battery fluid regularly (acid batteries); gel batteries require no maintenance, but must be continuously recharged.
- · Check that the clamps have been properly fitted and, if necessary, remove any layers of oxide.
- Unclamp the minus pole if the ancillary battery is not being used for a longer period of time (more than 1-2 months). Even if the main switch of the battery has been interrupted, the battery may be recharged by the charger. (Conservation charging)

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

Battery charger

- The charger's capacity is 220 W (Van Exclusive) 300 W (Toskana Exclusive, Sphinx).
- 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.

230V main switch

- To switch off the power supply for the entire system set the main switch to "0"(OFF).
- Connect and disconnect the 230 V mains connection only when the main switch has been switched 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

Legend

- ① Key for monitoring the battery voltage of the superstructure and the vehicle.
- ② Key for displaying the level of liquid in the fresh water tank [in %] and for setting the parameters that can be programmed.
- (3) Key for programming the system.
- (4) Main switch (press for approx. 2 sec. to turn on or off). When you switch it on, the system will carry out a functional test and show all of the symbols on the display. When it is green, the corresponding LED shows that the control panel is on. If it is red, it shows that an alarm has gone off somewhere (battery, tank, etc.).

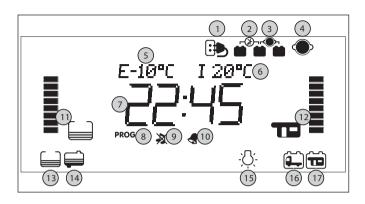
- (5) Key for turning the lights and the heating on and off.
- (6) Key for turning the fresh water pump on and off.
- Key for switching the outer tent light on and off (the outer tent light is automatically switched off when the motor is turned on).

Programming settings

Among other things, the time and the alarm function can be set in the programming menu (please refer to the user manual for more possible settings).

- Press the "PROG" key for longer than 2 sec.
- Use the arrow keys (1) and (2) to navigate.
- Use "PROG" to confirm the setting you wish to set.
- Press "PROG" several times to save settings and exit from the menu.
- To exit without saving, wait approx. 20 seconds.

Hobby



Main display

- (1) 230 V mains
- (2) Charged state of the vehicle battery
- (3) Parallel connection of superstructure and vehicle battery
- (4) Vehicle motor
- Outside temperature
- (6) Inside temperature
- (7) Digital clock
- (8) Program
- (9) Tones deactivated
- (10) Alarm clock display ON
- (1) Consumption display for fresh water tank
- (12) Consumption display for battery
- (13) Fresh water tank empty
- (14) Waste water tank full

- (15) Deep discharge protection on
- (16) Modular battery below minimum voltage
- Vehicle battery below minimum voltage

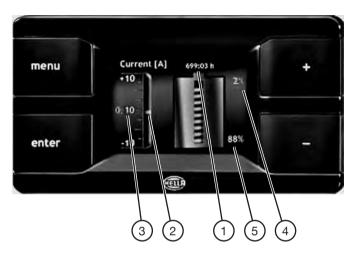
Functions

Protection against total discharge

An electronic installation turns off all 12V consumers when the consumer battery reaches a minimum voltage of 10V. The consumers can be switched on again for approx. one minute by switching the main switch on again.

The refrigerator, electric entrance step and those consumers directly supplied by B2 are not affected by this installation.





Intelligent Battery Sensor (IBS) (Optional Extra)

As an optional feature, your vehicle is equipped with a battery sensor. The IBS control measures the available capacity of the battery and also indicates battery ageing.

Legend

(1) DOD display

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

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%.

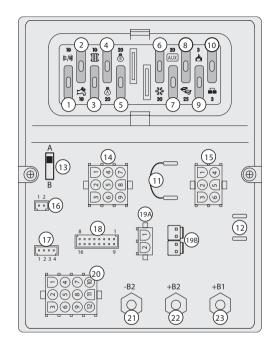
(5) State of charge

(SOC = State of Charge)

Actual state of charge of the battery

Example: SOC: 88%.





Distribution module

Fuses

- 10A fuse for supply of the front tent light
- 10A fuse for supply of the water pump

- 10A fuse for supply of the heating/boiler
- 20A fuse for the lights
- 20A fuse for the lights
- 30A fuse for supply of the 12V AES absorber refrigerator
- 20A fuse for the aux supply (solar charger controller)
- (8) 25A fuses for supply of the electric step
- 3A fuse
- (10)3A fuse
- (11)Bridge circuit
- Simulated D+ alternator output for electric step and refrigerator
- Change-over switch must be in Position "A"
- Flectrical device connection A
- Flectrical device connection B
- (16) Electrical device connection
- Fresh water tank sensor connection
- (18) Fresh water tank sensor connection
- A Signal input ignition variation A
- (19) B Signal input ignition - variation B
- 20) Ground connection for electrical devices
- Connection for negative pole for modular battery
- Connection for positive pole for modular battery
- Connection for positive pole for modular 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)

Supply via mains connection

The 230V system is safeguarded by a 2-pole circuit breaker with a residual current operated device and 2 x 13 A. The residual current operated device is located either in the seating arrangement behind the driver's seat or in the clothes cupboard (depending on the model). Should there be a power failure, the automatic person protection circuit interrupts the entire 230 V electric circuit. In most cases, such a power failure is caused by a defect electrical device or a defect cord.

- Repair the defect before you switch the circuit breaker on again.
- If you cannot repair the defect, consult an electrician.

Rules for the mains connection:

 Use only a 3 x 2.5 mm² cable with a maximum length of 25 m, a CEE plug and connector to connect the motor home to an external 230 V mains.

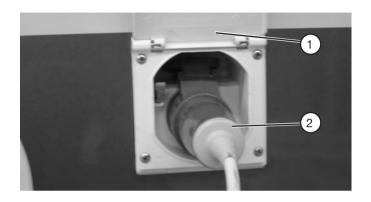




If you are using a cable drum without protection against overheating, the electric cable must be completely unwound from the cable drum.

- Use only plugs and cables that meet CEE standards.
- First, make the connection to the main socket (1) of the vehicle.
- Then insert the other plug in the live socket.
- Follow this sequence in reverse when you pull out the plug.





Exterior socket

Opening

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

Closing

- Remove CEE plug (2).
- Push cover flap (1) down until you hear it lock into place.



7.4 Functioning of the electrical supply unit

Place of installation of the battery charger

The battery charger is located under the passenger's seat (Van Exclusive / Toskana / Toskana Exclusive) or in the side seating bench behind the passenger's seat (Sphinx).

Operating the 230 V mains connection

After the mains connection has been plugged in, both the modular and the vehicle battery will automatically be charged by the battery charger in the motor home (even if the Control Panel has not been switched on).



It is not necessary to switch the main switch on the Board Control Panel on in order to charge the batteries. When the battery charger has been switched on, the batteries are charged as soon as the feeder plug supplies 230 V.

Charging procedure

The charger represents the current status of technology and charges in three phases in accordance with the so-called IU₂U₄ curve. The charging period should be at least 12 hours.



Batteries do not respond well to cold temperatures; in such cases they do not supply electricity to the on-board circuit or absorb power from the charger. Therefore, when travelling in winter, the heating should be turned on before charging the batteries.



The battery voltage of both the motor battery and the ancillary battery can be checked continuously on the control panel.



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.

Checklist

- Turn off the motor.
- Switch on the 12 V master switch.

- Turn off all equipment that uses 12 V.
- Start the motor.

The voltage of the caravan battery must rise if

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

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

- Is the 50A fuse in the supply line to the ancillary battery near the motor battery functioning properly?
- Is the fuse distribution panel displaying the "Motor runnina" sianal?

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 main switch must be switched on and the battery's circuit breaker must be closed.



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

Place of installation

- Van Exclusive/Toskana/Toskana Exclusive: under the passenger's seat
- Sphinx: in the side seating arrangement behind 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. Several discharging/ charging operations are possible.

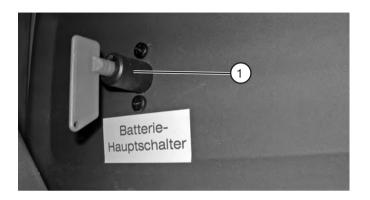


Use only the same kind of batteries when exchanging the battery (same capacity and voltage, cycle-proof, maintenance-free and leakproof).

Changing the battery

- Please do not smoke when changing the battery.
- Disconnect the connection to the 230 V network.
- Before you connect or disconnect the battery, all of the 12 V electrical devices must be switched off and the battery's circuit breaker must be opened.
- Hobby

- 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 modular battery from being exhaustively discharged when the motor home is not being used, a circuit breaker (1) has been installed. When this is opened, the modular battery is completed disconnected from the 12 V mains.



When the circuit breaker is open, the electrical input stage will not engage automatically.



7.6 Fuse protection of the electric system

Ancillary battery

The main fuse protection is carried out by means of a 50 A safety fuse (1). The fuse is located directly next to the battery.

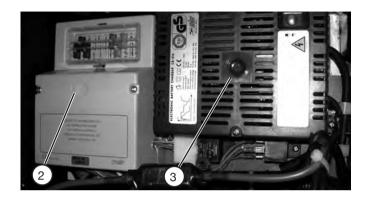
12V circuits

Fuse protection is carried out by means of fuses on the 12V 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.





Charger with distribution module

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



7.7 Mobile navigation

As an optional extra, your motor home can be equipped with a navigation system and integrated rear view camera, which can be clipped into a special holder on the dashboard. It then functions immediately.

- Press the right switch (1) forward.
- First remove the right-hand side of the sat-nav device, then the left-hand side.



- Remove the device from the holder when you park your motor home, as otherwise it will continue to use electricity and the starter battery might be discharged.
- 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.

Information on how the TV works



- In order to use the TV, the hand brake must be on.
 To guarantee that the antenna searches for a satellite quickly and correctly, please ensure that no obstacles (e.g. trees) obstruct the search.

7.8 Subsequently installed devices

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

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



Chapter 8: Water

8.1 General



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

8.2 Water supply



The water supply system corresponds to the current status of technology as per 10/2009 [Directive 2002/72/EC].

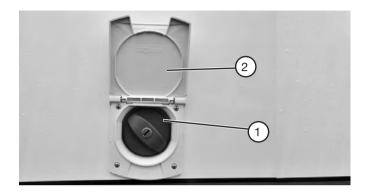
The motor home is equipped with a fixed fresh water tank. An electric water pump pumps the water to the individual water outlets. When a tap is turned on the pump is automatically activated and pumps water to the relevant outlet. The waste water tank collects the dirty waste water. The water levels in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

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

Filling the system

- Close all outlets and valves.
- Open the protective cover (2) of the filler neck by pulling it.
- Unlock and open the filler cap (1).
- Fill the tank with drinking water.
- Switch on the 12V main switch.
- If applicable turn on the water pump at the control panel.





Turn all taps to "warm"; let the water run and wait until the water runs without bubbles. This is the only way to ensure that the warm water boiler is also filled with water.



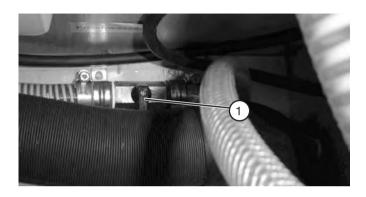
Always ensure that the fresh water tank is filled before switching on the pump. The pump can be destroyed if allowed to run dry!



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



The fresh water tanks in the following models: D 69 H GFLC with a technically permissible maximum weight of 4000 kg have been equipped with an overflow valve that limits the volume of fresh water to 10 l. Before driving, the overflow valve must be opened.



Emptying the fresh water tank

- The outlet valve (1) is located next to the fresh water tank in the seating arrangement on the outside wall (Van Exclusive / Toskana Exclusive).
- In the Sphinx models, the outlet valve can be accessed above the rear external storage locker (rear left service flap).



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

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

In the Sphinx models, the waste water tank has been installed in the heated false ceiling, which efficiently prevents the waste water from freezing.



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



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



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



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

Draining the water system

Ensure that the motor home is in a horizontal position. Turn off the 12 V power supply at the control panel. Turn on all drain cocks. If possible open the filler cap of the fresh water tank. Turn the water taps to the middle position and let them run.

Attach hand showers to the shower fitting. Check that water is draining out. Clean the tanks and rinse them thoroughly. Allow the water system to dry for as long as possible. Do not forget to empty the toilet cassette.

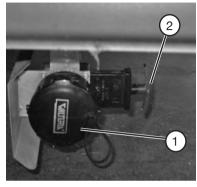


If the vehicle is not being used and there is a danger of sub-zero temperatures be sure to drain the entire water system. Leave taps turn on in the middle position. Leave all drain valves open.



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







Emptying the waste water tank

- · The waste water opening is located on the left side underneath the vehicle.
- The valve (2) for opening the waste water opening in the Toskana Exclusive models is located either directly by the opening or in a protected position in the bottle container, depending on the model. Sphinx models have a ball valve which can be accessed above the foremost service flap on the left side of the vehicle, directly behind the driver's door.
- Unscrew the lid (1), open the valve or the ball valve (2) and allow the waste water to run off.
- When the waste water has drained out completely push the slide valve back in and screw the cap back on.

8.3 Hot water supply

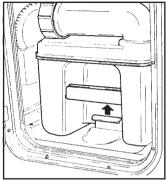
Your motor home is equipped with a heating system with integrated boiler. The boiler holds 10 litres of water. During summer use the water can be heated independently of the heating system. Please see Chapter 9.3 Heating for instructions on operating the boiler.

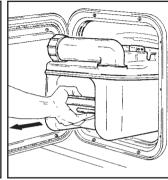


The non-electric safety or drain valve will automatically open at temperatures under approx. 3°C and drain the boiler contents via a drain nozzle.



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





8.4 Flushing toilet

Preparing the toilet

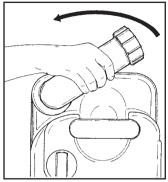
• Open the Thetford door (see 5.1) and pull the holding bar up to remove the waste tank.

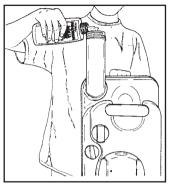


The waste tank can only be removed when the drain valve is closed.

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



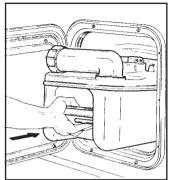


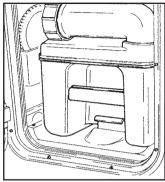




Use toilet fluids very sparingly. An overdose is no guarantee of preventing possible odours!

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







Never fill toilet fluids directly into the toilet bowl.

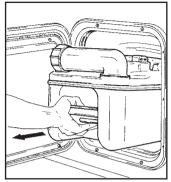
- Push the waste tank back into position.
- Ensure that the holding bar secures the waste tank.
- Close the service flap.

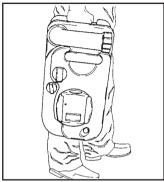




Using the toilet

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





Emptying the waste tank

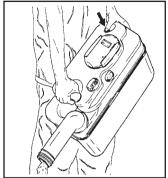
The waste tank must be emptied at the latest when the LED lights up. It is recommended that the tank is emptied before this. The LED lights up when the tank contains more than 15 litres. From this point in time the tank has a residual capacity of 2 litres, representing approx. 5 flushes.

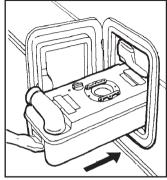
Open the toilet flap and pull the holding bar up to remove the waste tank.



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



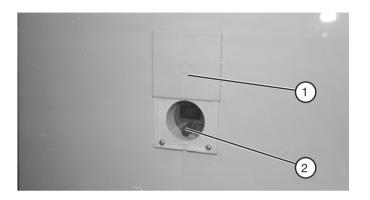






Only empty the waste tank at specially designated disposal points and never in open spaces!

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



Water connection for external shower (Optional Extra)

Opening

• Push the cover (1) up to gain access to the water connection.

Closing

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



Chapter 9: Gas

9.1 General safety rules when using LPG fittings



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

Exception:

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

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 (groundsman) and, if necessary, the fire brigade.

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

Built-in objects and changes

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



Regulators and valves

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



The operating pressure for gas is 30 mbar.

Before initial operation

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



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



Read the manufacturer's operating manuals carefully!



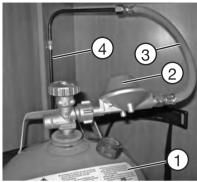


9.2 Gas supply

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

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





Gas bottle cabinet

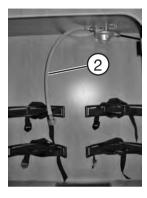
Depending on the model access to the gas bottle cabinet is either via the rear storage compartment or separately in the side wall.

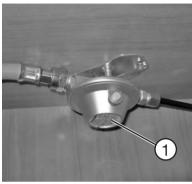
The gas bottle cabinet holds 2 x 11 kg propane gas cylinders.

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. The 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 with the gas 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 with the gas hose by hand on to the gas bottle (left-handed thread).
- Check that gas is not escaping from the connection point using leak detector spray.
- · Close the gas bottle cabinet door.

Gas stop valves

Every gas device is fitted with a corresponding gas stop valve. The gas stop valves are located in the kitchen drawer above the cutlery tray and are labelled with the corresponding symbols.







Heating Gas cooker (Oven) Refrigerator

The following applies to stop valves and valves:

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



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



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



Never carry out leak tests near an open flame.

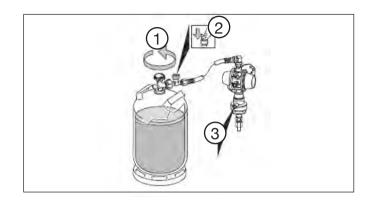


Gas regulator with a crash sensor (Optional Extra)

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

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

(Effect of delay 3.5 g ± 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).



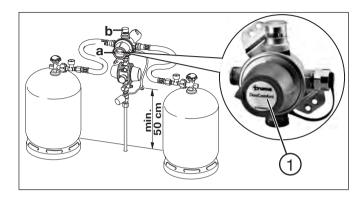
Changing a gas bottle



Please use the enclosed screw aid to screw and unscrew the hose. It ensures the necessary tightening torque.

- Open the door of the gas bottle container.
- Close the main shutoff valve on the gas bottle, noting the direction of the arrow.
- Unscrew the high-pressure hose from the gas bottle.
- Release the fastening straps and take out the gas bottle.
- Place a full gas bottle back in the gas bottle container and use both fastening straps to lash it securely.
- Screw the high-pressure hose to the full gas bottle.
- Open the valve on the full gas bottle.
- Press the hose rupture protection (see: To operate)
- Check whether there is any gas escaping from the tie-in points by spraying them with leak detection spray.
- Close the door of the gas bottle container.





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

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



It operates similar to the MonoControl.

- **a** Turn the knob to the left ① or right to determine which cylinder is to be used.
- **b** Shows the status of the cylinder in use.

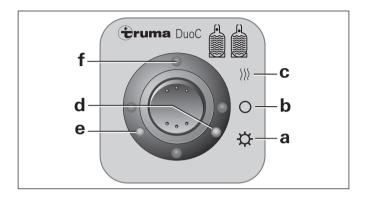
Green: full Red: empty

Function

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

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





Remote indicator for the switching valve (Optional Extra)

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

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

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).

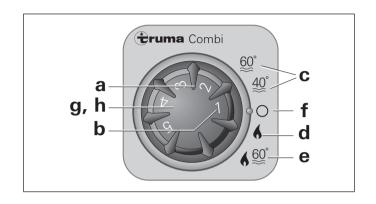
The heating system is fully operational with or without the hot water system.

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.

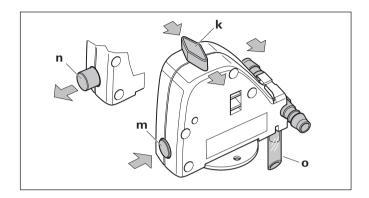
Operating panel

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



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





FrostControl

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

If the system is under excess pressure intermittent pressure equalisation will automatically take place via the safety valve. The outlet valve is located by the heating connection in your vehicle.

- k Rotary switch position "ON"
- m Push button position "CLOSED"
- n Push button position "DRAIN"
- Drain outlet (to the outside through the vehicle floor)

To activate

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

To deactivate

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

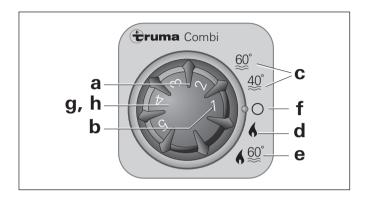


The drain valve can only be closed manually using the push button (Position **m**) and the boiler filled if the valve temperature is above approx. 7°C.



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

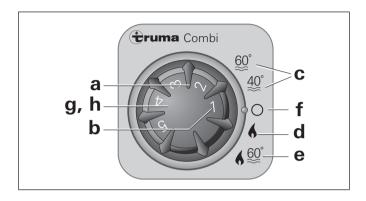




Summer operation

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

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



Winter operation

Heating with regulated water temperature

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

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

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



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

Heating without regulated water temperature

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

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

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

Heating with drained water system

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

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

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



Turning off

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



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



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

Filling up the boiler

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

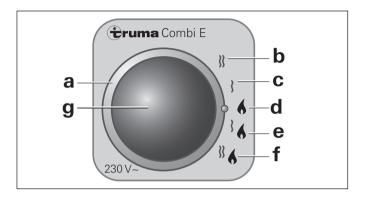


At temperatures below approx. 7°C turn on the heating first in order to warm up the installation area and the FrostControl on the drain valve. After a few minutes, when the temperature on the FrostControl is above 7°C, the drain valve can be closed.

Draining the boiler

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





10.3 Electric Heating System (Optional Extra)

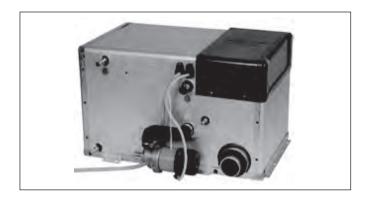
The electric heating system also has heating rods to enable electric operation. These can be switched on or combined manually.

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

*For operation in winter only!

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



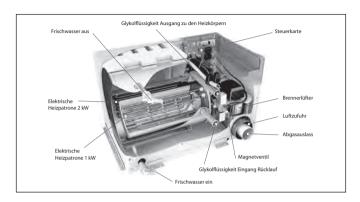


10.4 Hot-water heating (Optional Extra)

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

Place of installation

in the clothes cupboard



Please note the following

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



Operating methods

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

Functionality

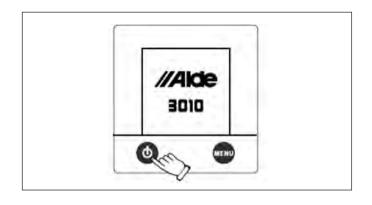
- hot-water heater
- heating system and hot-water heater
- heating system

Operating unit

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



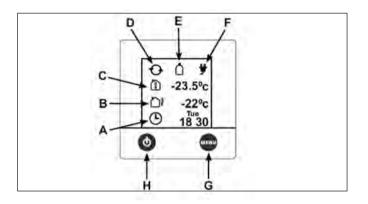
Please refer to the separate operating instructions for the "Alde Compact 3010" for more detailed information on the operation, use and upkeep of the hot-water heater.



To start the hot water heater

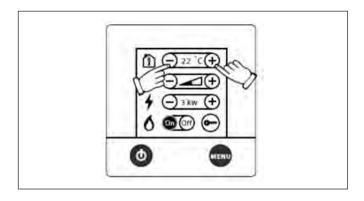
Press the On/Off button. The heater will start, using the settings that were last selected. The Alde logo appears on the display.





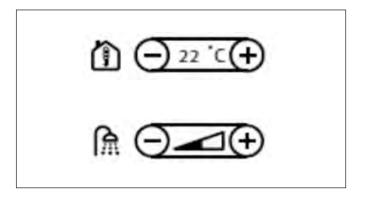
Idle state

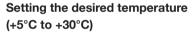
Α Clock Outside temperature В C Inside temperature D Circulation pump Remote indicator Ε 230V connection G Menu button Н On/Off button



Settings menu

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



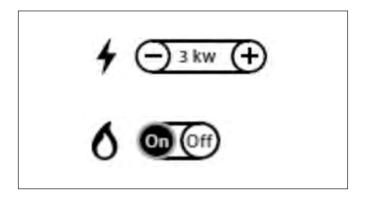


by pressing – or + in steps of 0.5°C.

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

Setting the hot water

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



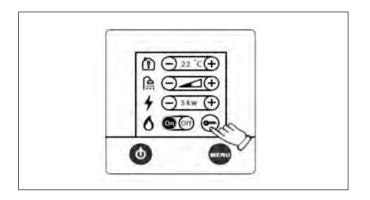
Setting the electric heating system

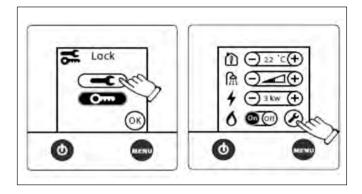
Use the – and + buttons to select the output (Off, 1/2/3 kW). Preference is given to electrical operation when selecting whether to operate on electricity or gas.

Setting for heating with gas

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







Activating the Tools menu

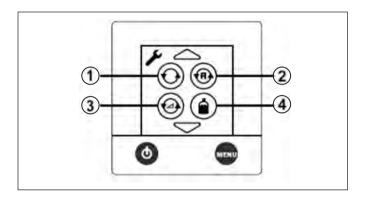
The Tools menu is used to control the remaining functions of the control unit.

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

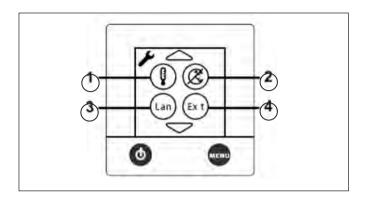
Overload protection prevents 230V fuses from overloading. If power consumption exceeds the value that has been set, the electric output of the heating system will automatically be reduced.

Functions of the Tools menu

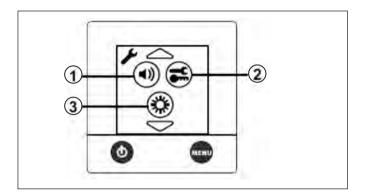
- Arrow icons enabling you to switch between the individual Tools fields.
- Setting the clock to use functions such as automatic start or automatic temperature.
- (3) Automatic temperature change to set temperatures, e.g. at night or on individual days.
- Automatic start at a later time. The heating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



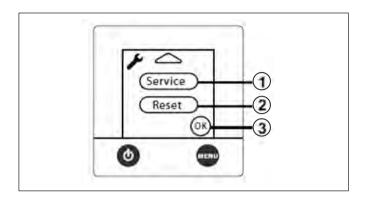
- (1) Continuous operation of the pumps to limit the volume of hot water, especially if little heating is required.
- 2 Pump Auto / 12V – the 230V pump will run if this is set to the auto position; if the 230V electric power supply is interrupted, the 12V pump will start up. If set to 12V, the 12V pump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



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



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



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

Error messages

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

Battery low: if voltage sinks to under 10.5V,

the heating system will switch

off. Automatic reset to above 11V.

Fan failure: incorrect fan speed. Automatic

reset after 5 minutes

Gas failure: gas bottle is empty. Reset by

switching off or restart.

Overheating is red: to reset, interrupt the 12V electric power

supply and connect it again.

Overheating is blue: to reset, interrupt the 12V electric power

supply and connect it again.

Window is open: the heating system interrupts

the gas supply when thewindow is open.

Shut the window.

Connection failure: connection error between the heating

system and the panel. Switch the main

voltage off and then on again.

Panel failure 1: panel error Panel failure 2: panel error





Wash room

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



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



10.5 Auxiliary Heating in the Driver's Cab (Optional Extra)

This heating unit is integrated in the water circuit; electric power is supplied by means of the 12V modular battery.

Function

The heating function is set manually using the switch in the driver's cab.

Set the switch to position ① to heat the driver's cab.

Set the switch to position ② if you prefer to heat the motor; this will, however, also preheat the interior.

10.6 Refrigerator

Modes of operation

Three modes of operation are possible for the refrigerator.

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



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



12 V operation

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

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



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

230 V operation

- Turn the energy selector switch to mains ②.
- Set the temperature using the thermostat.
- To turn the refrigerator off turn the energy selector switch to the O position.

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 to the highest setting and keep it pressed down. The refrigerator will either automatically ignite or by pressing the button for manual ignition (depending on the model).
- When the pilot light has ignited, let go of the thermostat.
 Repeat the previous step if there has not been ignition.
- · Set the cooling temperature using the thermostat.
- To turn the refrigerator off turn the energy selector switch to the O position
- Close the main stop valve on the gas cylinder and the "Refrigerator" gas stop valve.





Refrigerator door lock



The refrigerator door must always be kept closed and locked while driving.

To open the refrigerator door, press down on the button (1) There is an automatic lock on the door of the refrigerator. When you shut the refrigerator door and press it firmly, it will lock itself automatically. The lock on the freezer compartment is the same as the one on the refrigerator. It is located underneath the freezer door (2).

Hobby



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



Removable freezer (Slim Tower)

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

To remove the freezer

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







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



Freezer compartment

If the outside temperature and the rate of humidity are very high, drops of water may form on the metal frame of the separate freezer compartment. For this reason, it has been fitted with a frame heater. If the outside temperature and the rate of humidity are very high, switch the frame heater on by pressing (1). This helps to avoid corrosion. When the frame heater is on, the control light (2) will shine.





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.

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

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



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



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



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





10.8 Oven (Optional Extra)



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



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

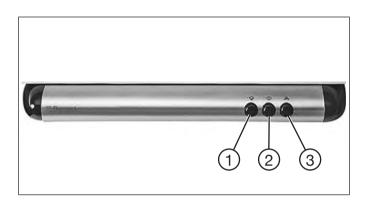
Switching on

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



Switching off

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



10.9 Fume Hood (Optional Extra)

The built-in fan blows kitchen odours directly outside.

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



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





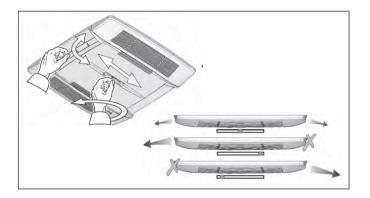
10.10 Rooftop Air Conditioning (Optional Extra)

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

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



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



To set the direction of ventilation

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

Chapter 11: Maintenance and Care

11.1 Maintenance

Maintenance intervals

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



Also note the maintenance intervals for the basic Fiat vehicle.

The following applies for maintenance intervals:

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



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



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



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



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

11.2 Airing

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

Condensation is caused by

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



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



11.3 Care

Cleaning the exterior

The vehicle should not be washed more often than necessary.



Wash the vehicle only in places provided for this purpose.



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



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

Do not use cleaning agents containing solvents.

The following applies when cleaning the exterior:

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



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

Washing with a high pressure cleaner



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

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



The following applies when waxing the surfaces:

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

The following applies when polishing the surfaces:

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



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

The following applies for tar and resin stains:

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



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

The following applies for damages:

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

Skylights, windows and doors

Window panes require particularly careful treatment.

The following applies for their care:

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



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



You will find talcum powder in auto accessory shops.



Cleaning the interior



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

The following applies for cushions, upholstery and curtains:

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

Cleaning instructions for materials that containTeflon (Dubai and Devon)



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

We recommend the following methods for cleaning: Method A:

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

This method is particularly suitable for removing:

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

Method B:

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

This method is particularly suitable for removing:

- wax, candles
- pencil



Chocolate or coffee should only be washed out with 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.



Draining the filter housing of the fresh water pump:

You will often find water deposits in the filter housing of the fresh water pump. To protect against the formation of dirt as well as frost, this housing should be dried thoroughly before longer breaks or when winter starts.

- Unscrew the filter housing (only the transparent housing!)

 (1) from the filter of the fresh water pump.
- Thoroughly remove the water from the filter and allow the filter to dry completely.
- Then reattach the filter.



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 deaerating 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.

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

The following applies for ventilation:

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



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



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

The following applies for heating:

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



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



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



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

The following applies for tanks and containers:

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

At the end of the winter season

The following applies for the care of the vehicle:

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



Wash the vehicle only in places provided for this purpose.



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

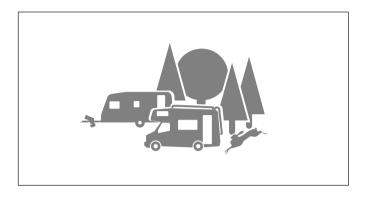


Chapter 12: Sanitation and Environmental Protection

12.1 The environment and traveling

Environmentally fair use

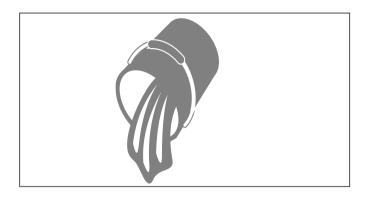
It is only natural that owners of motor homes and caravans have a special responsibility for the environment. Always use your vehicle in an environmentally friendly way.



The following applies for environmentally fair use:

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



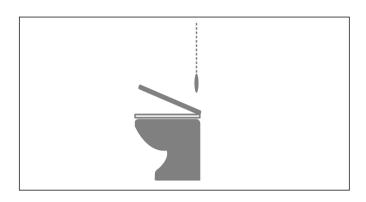




- Collect waste water on board only in built-in waste water tanks or, if necessary, in suitable containers!
- Never empty waste water in open spaces or down manholes! Generally, the public waste water system does not run through clarification plants.
- Empty your waste water tank as often as possible, 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 accessorv)!



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

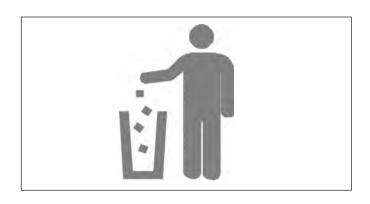


Sanitation

- 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		Basic equipment	Mass when vehicle is ready to start	Techn. perm. overall weight	Overload weight	No. of seats	Conven- tioal loading	Overload weight	Length of vehicle	Personal equipment	Remaining overload weight
DL 500 GESC	Limited Edition - Van Exclusive	2775	75	77	110	3037	3500	463	4	225	238	6,9	109	129
D 650 ESC	Limited Edition - Toskana	2750	75	77	110	3012	3500	488	4	225	263	7,0	110	153
60 ES	Van Exclusive	2803	75	77	110	3065	3500	435	4	225	210	7,3	113	97
60 KL	Van Exclusive	2865	75	77	110	3127	3500	373	4	225	148	7,3	113	35
69 GL	Toskana Exclusive	2955	75	77	110	3217	3500	283	3	150	133	7,5	105	28
69 EL	Toskana Exclusive	2962	75	77	110	3224	3500	276	3	150	126	7,5	105	21
69 QS	Toskana Exclusive	2957	75	77	110	3219	3500	281	3	150	131	7,5	105	26
H69 GL	Toskana Exclusive	3103	75	77	110	3365	4250	885	4	225	660	7,5	115	545
75 FL	Toskana Exclusive	3437	75	77	110	3699	4500	801	4	225	576	8,0	120	456
75 TL	Toskana Exclusive	3454	75	77	110	3716	4500	784	4	225	559	8,0	120	439
H75 FL	Toskana Exclusive	3542	75	77	110	3804	4500	696	4	225	471	8,0	120	351
H75 UC	Toskana Exclusive	3575	75	77	110	3837	4500	663	3	150	513	8,0	110	403
A77 EM	Sphinx	3855	75	85	200	4215	5200	985	4	225	760	8,0	120	640
A77 GM	Sphinx	3837	75	85	200	4197	5200	1003	4	225	778	8,0	120	658

These figures refer to the standard vehicle without extra equipment. Deviations of up to 5 % are possible.



13.2 Inflation pressures

	Motor h	nomes						
Tyres	Tyre pres	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 ma	nufacturers*						
195/75 R 16 C	front: 4,75	rear: 4,75	IVECO					
215/70 R 15 C	front: 4,1	rear: 4,5	FIAT					
225/75 R 16 C	front: 4,5	rear: 5,0	FIAT					

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

Models with dual wheels (Iveco base vehicle) have an extension to make it easier to pump up the rear inner tires.



13.3 Technical data

Hobby	Model	Туре	Base	Motorisation ⁵⁾	exhaust gas	Chassis	Frame extension	Tow-b	
Model			vehicle	Model	emissions			Towing bracket	Spherical head
				FIAT Ducato	X250 (fro	nt wheel drive)			
DL 500 GESC	Limited Edit Van Exclusive	F3	Ducato	130 Multijet (95,5 kW)	Euro 4	Spezial	205817 lowered	SAWIKO 30PEl20011-P	Typ 04 (3009000400)
D 650 ESC	Limited Edit Toskana	F3	Ducato	130 Multijet (95,5 kW)	Euro 4	Spezial	205806 straight	SAWIKO 30PEI20018-P	Typ 04 (3009000400)
60 ES	Van Exclusive	F3	Ducato	115 Multijet (85 kW)	Euro 5	Spezial	206457 lowered	SAWIKO 30PEl20019-P	Typ 04 (3009000400)
60 KL	Van Exclusive	F3	Ducato	115 Multijet (85 kW)	Euro 5	Spezial	206854 straight	SAWIKO 30PEl20019-P	Typ 04 (3009000400)
69 GL	Toskana Exclusive	F3	Ducato	130 Multijet (96 kW)	Euro 5	Spezial	205724 lowered	SAWIKO 30PEl20010-P	Typ 04 (3009000400)
69 EL	Toskana Exclusive	F3	Ducato	130 Multijet (96 kW)	Euro 5	Spezial	205724 lowered	SAWIKO 30PEl20010-P	Typ 04 (3009000400)
69 QS	Toskana Exclusive	F3	Ducato	130 Multijet (96 kW)	Euro 5	Spezial	205724 lowered	SAWIKO 30PEl20010-P	Typ 04 (3009000400)
H69 GL	Toskana Exclusive	F3	Ducato Maxi	130 Multijet (96 kW)	Euro 5	Spezial	205724 lowered	SAWIKO 30PEl20010-P	Typ 04 (3009000400)
75 FL	Toskana Exclusive	F4	Ducato Maxi	130 Multijet (96 kW)	Euro 5	AL-KO	AMC 45HT straight	AL-KO AMC58G-A	_
75 TL	Toskana Exclusive	F4	Ducato Maxi	130 Multijet (96 kW)	Euro 5	AL-KO	AMC 45HT straight	AL-KO AMC58G-A	
H75 FL	Toskana Exclusive	F4	Ducato Maxi	130 Multijet (96 kW)	Euro 5	AL-KO	AMC 45HT straight	AL-KO AMC58G-A	
H75 UC	Toskana Exclusive	F4	Ducato Maxi	130 Multijet (96 kW)	Euro 5	AL-KO	AMC 45HT straight	AL-KO AMC58G-A	
				IVECO Da	aily (rear v	vheel drive)			
A77 EM	Sphinx	J1	50 C 17	3.0 Twin Turbo EEV (125 kW)	Euro V	Ladder-type chassis frame	205939 ⁸⁾ lowered	BOSAL 7605-G	
A77 GM	Sphinx	J1	50 C 17	3.0 Twin Turbo EEV (125 kW)	Euro V	Ladder-type chassis frame	205939 ⁸⁾ lowered	BOSAL 7605-G	

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

⁵⁾ FIAT: 115 Multijet: 85 kW (115 PS); 130 Multijet: 96 kW (130 PS); 150 Multijet: 109 kW (148 PS); 180 Multijet Power 130 kW (177 PS) IVECO 3.0 170 PS (125 kW) Twin Turbo EEV (Euro V)



7) 4th seat on the right (1473034) is an option

8) If special accessory has been ordered: pneumatic suspension 205940 (A77)

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

Belt system	Seats	t.p.o.w. [kg]	Permiss. front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Maximum towing weight	Length of super- structure ⁴⁾		Height	Width 2)	Front tread width	Rear tread width	Wheel base	Front projection	Rear projection
					FIAT D	ucato X2	250 (front v	vheel drive	e)							
UAP 370 (20-10006904)	4	3500	1850	2000	750	1600	5100	4382	6947	2740	2240	1810	1790	3800	948	2199
UAP 371 (20-10006943)	4	3500	1850	2000	750	1600	5100	4527	6968	2870	2330	1810	1980	3800	948	2220
UAP 370 (20-10006904)	4	3500	1850	2000	750	1600	5100	4711	7276	2740	2240	1810	1790	4035	948	2293
UAP 370 (20-10006904)	4	3500	1850	2000	750	1600	5100	4711	7276	2740	2240	1810	1790	4035	948	2293
UAP 372 (20-10007347)	3	3500	1850	2000	750	1600	5100	5024	7465	2870	2310	1810	1790	4035	948	2482
UAP 371 (20-10006943)	3	3500	1850	2000	750	1600	5100	5024	7465	2870	2310	1810	1790	4035	948	2482
UAP 371 (20-10006943)	3	3500	1850	2000	750	1600	5100	5024	7465	2870	2310	1810	1790	4035	948	2482
UAP 372 (20-10007347)	4	4250	2100	2400	750	1600	5600	5024	7465	2952	2310	1810	1790	4035	948	2482
UAP 242 (20-10006947)	4	4500	2100	2x1500	750	1550	6000	5606	8047	2910	2310	1810	1860	4316	948	1983
UAP 241 (20-10006946)	4	4500	2100	2x1500	750	1550	6000	5606	8047	2910	2310	1810	1860	4316	948	1983
UAP 242 (20-10006947)	4	4500	2100	2x1500	750	1550	6000	5606	8047	2965	2310	1810	1860	4316	948	1983
AL-KO SGS5 1473024 ES re.	37)	4500	2100	2x1500	750	1550	6000	5606	8047	2965	2310	1810	1860	4316	948	1983
					IVE	CO Daily	(rear whe	el drive)								
UVP 150 (20-10005303)	4	5200	2100	3700	750	3000	8200	5515	8028	3290	2300	1812	1541	4750	998	2280
UVP 150 (20-10005303)	4	5200	2100	3700	750	3000	8200	5515	8028	3290	2300	1812	1541	4750	998	2280



Load increased for Motorhomes

Hobby Model	Model	Туре	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Maximum towing weight
	FIAT Ducato X250 (front wheel drive)									
DL 500 GESC	Limited Edit Van Exclusive	F3								
D 650 ESC	Limited Edit Toskana	F3								
60 ES	Van Exclusive	F3	Ducato	4	3650	1850	2000	750	1600	5250
60 ES	Van Exclusive	F3	Ducato Maxi	4	4250	2100	2400	750	1600	5850
60 KL	Van Exclusive	F3	Ducato	4	3650	1850	2000	750	1600	5250
60 KL	Van Exclusive	F3	Ducato Maxi	4	4250	2100	2400	750	1600	5850
69 GL	Toskana Exclusive	F3	Ducato	4	3650	1850	2000	750	1600	5250
69 GL	Toskana Exclusive	F3	Ducato Maxi	4	4250	2100	2400	750	1600	5850
69 EL	Toskana Exclusive	F3	Ducato	4	3650	1850	2000	750	1600	5250
69 EL	Toskana Exclusive	F3	Ducato Maxi	4	4250	2100	2400	750	1600	5850
69 QS	Toskana Exclusive	F3	Ducato	4	3650	1850	2000	750	1600	5250
69 QS	Toskana Exclusive	F3	Ducato Maxi	4	4250	2100	2400	750	1600	5850
H69 GL	Toskana Exclusive	F3								
75 FL	Toskana Exclusive	F4	Ducato Maxi	4	5000	2100	2x1500	750	1550	6000
75 TL	Toskana Exclusive	F4	Ducato Maxi	4	5000	2100	2x1500	750	1550	6000
H75 FL	Toskana Exclusive	F4	Ducato Maxi	4	5000	2100	2x1500	750	1550	6000
H75 UC	Toskana Exclusive	F4	Ducato Maxi	3	5000	2100	2x1500	750	1550	6000
			IV	ECO Dai	ly (rear w	heel drive)				
A77 EM	Sphinx (N)	J1								
A77 GM	Sphinx (N)	J1								



Length of super- structure ⁴⁾	Total length ¹⁾	Height	Width 2)	Front tread width	Rear tread width	Wheel base	Front projection	Rear projection ¹⁾
4711	7276	2740	2240	1810	1790	4035	948	2293
4711	7276	2767	2240	1810	1790	4035	948	2293
4711	7276	2740	2240	1810	1790	4035	948	2293
4711	7276	2767	2240	1810	1790	4035	948	2293
5024	7465	2870	2310	1810	1790	4035	948	2482
5024	7465	2897	2310	1810	1790	4035	948	2482
5024	7465	2870	2310	1810	1790	4035	948	2482
5024	7465	2897	2310	1810	1790	4035	948	2482
5024	7465	2870	2310	1810	1790	4035	948	2482
5024	7465	2897	2310	1810	1790	4035	948	2482
5606	8047	2910	2310	1810	1860	4316	948	1983
5606	8047	2910	2310	1810	1860	4316	948	1983
5606	8047	2965	2310	1810	1860	4316	948	1983
5606	8047	2965	2310	1810	1860	4316	948	1983

All measurements in [mm]

all weights in [kg]

- 1) incl. roof rail if it is standard equipment
- 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 4250 kg using a maxi chassis



13.4 Tyres	and rims for basic	es	Basic model					
Hobby Model	Series	t.p.o.w. [kg]	Perm. axle load front	Perm. axle load rear	Tyre size	Wheel *	Steel rims	
DL 500 GESC	Limited Edit Van Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
D 650 ESC	Limited Edit Toskana	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
60 ES	Van Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
60 KL	Van Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
69 GL	Toskana Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
69 EL	Toskana Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
69 QS	Toskana Exclusive	3500	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68	
H69 GL	Toskana Exclusive	4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68	
75 FL	Toskana Exclusive	4500	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68	
75 TL	Toskana Exclusive	4500	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68	
H75 FL	Toskana Exclusive	4500	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68	
H75 UC	Toskana Exclusive	4500	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68	
A77 EM	Sphinx	5200	2100	3700	195/75 R 16 C LI 110	6 / 130 / 170	5J x 16 H1, ET 108	
A77 GM	Sphinx	5200	2100	3700	195/75 R 16 C LI 110	6 / 130 / 170	5J x 16 H1, ET 108	

No. of tyre bolts / centralising collars / bolt circle

Recommended light alloy rims for the Fiat Ducato: original FIAT rims 1352242080 (6 J x 15, ET 68) and 1352243080 (6 J x 16, ET 68) - manufacturer: Hayes Lemmerz - Brescia/l



Tyres and rims for loaded motor homes

Hobby Model	Series	Auflastung	Perm. axle load front	Perm. axle load rear	Tyre size	Wheel *	Steel rims
DL 500 GESC	Limited Edit Van Exclusive						
D 650 ESC	Limited Edit Toskana						
60 ES	Van Exclusive	3650	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68
		4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
60 KL	Van Exclusive	3650	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68
		4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
69 GL	Toskana Exclusive	3650	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68
		4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
69 EL	Toskana Exclusive	3650	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68
		4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
69 QS	Toskana Exclusive	3650	1850	2000	215/70 R 15 C	5/71/118	6 J x 15, ET 68
		4250	2100	2400	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
H69 GL	Toskana Exclusive						
75 FL	Toskana Exclusive	5000	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
75 TL	Toskana Exclusive	5000	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
H75 FL	Toskana Exclusive	5000	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
H75 UC	Toskana Exclusive	5000	2100	2x1500	225/75 R 16 C	5 / 78 / 130	6 J x 16, ET 68
A77 EM	Sphinx						
A77 GM	Sphinx						

No. of tyre bolts / centralising collars / bolt circle

Recommended light alloy rims for the Fiat Ducato: original FIAT rims 1352242080 (6 J x 15, ET 68) and 1352243080 (6 J x 16, ET 68) - manufacturer: Hayes Lemmerz - Brescia/I



13.5 Accessory weights

Object	Weight [kg]	Object	Weight [kg]
HOBBY start-up package	54.5	Gas warner	1.0
HOBBY all-inclusive package	68.0	Gel batteries, two	55.0
HOBBY all-inclusive package II	60.0	GOLDSCHMITT additional pneumatic suspension	12.0
Additional belt rack for FIAT	20.0	HOBBY multimedia package	23.0
Additional belt rack for IVECO	39.0	HOBBY surround sound system	4.5
Additional gel battery	28.0	Hot-water heater	40.0
Additional loudspeakers in living area	2.0	IVECO air-conditioning	18.0
Additional socket	0.5	IVECO differential lock	10.0
AL-KO additional pneumatic suspension	65.0	IVECO pneumatic suspension	18.0
Auxiliary heating, driver's cab	9.5	Leather upholstery	12.0
Battery sensor	0.9	Luxury seats	4.8
Bedspread	1.5	Memory foam mattress	2.7
Bicycle carrier for 2 bicycles	8.0	Motorcycle mount	36.0
Bicycle carrier for 3 bicycles	9.0	Mud flaps, rear	2.0
Dometic air-conditioning 2200	34.0	Outer tent socket	0.4
Driver's and passenger's seats with interior upholstery	3.0	Outside shower	0.5
DVD/CD radio with sat-nav and rear view camera	3.2	Oven with grill and light	14.5
ESP	0.5	Oven with grill and light, electric ignition	16.0
External socket for gas	1.0	Pilot seats	4.8
Fiat automatic air conditioning	22.0	Radio alarm system with gas warner	1.0
Fiat diesel particulate filter	10.0	Rear ladder	13.0
Fiat fog lights	3.0	Rear stanchions	6.0
Fiat manual air conditioning	18.0	Remote indicator for DuoComfort	0.3
Fume hood	3.0	Reverse drive video system	2.0
Gas level indicator	1.0	Roof bonnet with electric fan	8.5



Object V	Veight [kg]
Roof bonnet, Midi-Heki Roof bonnet, Midi-Heki, electric SAT antenna 65 cm SAT antenna 85 cm SAT receiver Special metallic silver paintwork	4.5 5.5 16.0 18.0 2.0 3.0
Telescopic arm for flat screen TV Telescopic arm for flat screen TV, 3-way universal hinged Telescopic ladder Telescopic ladder	3.0 bracket 2.0 2.8 32.0
Tow coupling, removable Tow coupling, rigid Tow coupling, rigid, for Sphinx Tow coupling, rigid, for Toskana (Exclusive) Truma Combi 6 E heating	33.0 39.0 43.0 1.1
Two-cylinder gas unit, DuoComfort Winter cover for refrigerator grid	3.0 0.5



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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 x N) + (10 x 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!