Dear Motor Home Owners,

We would like to congratulate you on the purchase of your new HOBBY motor home and hope that you will always enjoy traveling with it.

Please read this manual carefully, even if you have been driving a motor home for a longer period of time. It will help you to avoid operating errors and damage to the vehicle and its equipment. Correct handling of all technical details will increase your driving comfort and maintain the value of your motor home.

We wish you and your companions many enjoyable trips and hope you always have a safe journey.

Your
HOBBY Motor Home Plant
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. 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 “•”.

![Diagram of a motor home with item number 1 labeled.](image-url)
Handling instructions
Handling instructions are also given in the form of key words beginning with the symbol “•”.

Notes

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

Warnings

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

Environmental Tips

Environmental tips give you possibilities for lessening the impact on the environment.
Chapter 2: Safety

2.1 General information

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

2.2 Fire protection

Precautions against fire
- Never leave children alone in the vehicle.
- Keep flammable 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
- insurance coverage
- proof of personal identity or confirmation of registration by a local authority
- if applicable, power of attorney to register the vehicle
- If applicable, the direct debit authorisation for motor vehicle tax

General inspection
In common with passenger cars new engine homes with a permissible total weight up to 3.5 tonnes do not have to undergo a general inspection for the first three years after initial registration. After this they must undergo a general inspection every two years. Engine homes weighing between 3.5 and 7.5 tonnes must undergo a general inspection every two years during the first six years following initial registration. After this a general inspection must be carried out every year.
The general inspection can be carried out by the German Technical Surveyance Association (TÜV), the German Engine Vehicle Surveyance Association (DEKRA) or an officially approved expert.

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

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

2.5 Before and while driving
As the owner / driver of the vehicle, you are responsible for the state of the vehicle. Please observe the following points:

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

Preparing the vehicle
• If the levelling supports have been extended, retract them.
• Close all the windows in the engine home as well as skylights in the roof.
• Retract the entrance step.
• Close the tap for the waste water tank.
• Close all taps and quick-action stop valves for accelerator devices. The only exception is for the heating if this should be used while driving.
• 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 mobile home.

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

• Ensure that no liquids, including those in the refrigerator, will leak.
• Secure accelerator cylinders.
• Secure the table and, if possible, lower it.
• Turn off interior lights.
• Close doors (including refrigerator door), drawers and flaps firmly.
• Heavy and/or voluminous objects (e.g. TV, radio) must be secured before driving.
• Completely open and secure the optional cockpit dimming system.

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 mobile home.

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

Do not forget the following:
- Adjust the interior and exterior mirrors as well as your seat.
- Check the lights.

In addition:
- Check your tyre pressure.
- Check all liquids, such as oil, cooling water, brake fluid and windscreen cleaning liquid, and fill them up if necessary.
- 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 mobile 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 mobile 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 mobile 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 exceeded.
- Due to load removal on the front axle, it is considerably more difficult to handle the vehicle when the rear garage is fully loaded.

Passenger safety
The following applies while driving:
- Only those seats equipped with safety belts may be used by passengers.
- While driving, passengers may not stay in the alcove or the beds.
- Passengers must remain in their seats with their seat belt on!
- Do not open the door latch!
- No extra passengers may remain in the vehicle!

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

Reversing/Manoeuvring
Your engine home is far larger than a car.

The following applies to reversing/manoeuvring
- Even if the wing mirrors are correctly adjusted there is a significant blind spot.
- When reversing or parking in places with poor visibility get help to guide you in.
Driving
Take a trial drive before leaving on your first large journey in order to familiarize yourself with the mobile 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 mobile 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 mobile 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.

Driving arround corners
Due to its height, a mobile home begins to sway more quickly than an automobile.

The following applies for driving arround corners:
• Never drive too quickly into a corner!

Driving economically
The engine of your mobile 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 mobile 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 Tools on board

The jack, nut wrench and crank are located in a storage compartment in the step on the right-hand side of the vehicle.

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 mobile 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.
2.9 When you stop driving

Selecting a parking space

The following applies for selecting a parking space:
• Select a parking space that is as level as possible.
• If possible, pick your spot in daylight.

Securing the vehicle

The following applies when securing the vehicle:
• Put the vehicle in gear.
• Pull on the handbrake.
• If necessary, extend extra vehicle supports.
• If necessary, use blocks (not in scope of delivery).

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

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

Warning triangle

The warning triangle should also always be at hand and have a fixed position in your mobile 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!
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 mobile home. This applies especially to heating in winter.

The following applies for saving energy:

- Meter the exact use of ventilation in the vehicle and the heating valve.
- Install winter mats on the inner sides of the driver’s cabin and the windscreen (not included in scope of delivery).
- Install an insulation mat between the driver’s cabin and the caravan (not included in scope of delivery).
- Open the door as little and as briefly as possible.
- When camping in winter, it is possible to put up a small tent in front of the vehicle as protection against the cold.
Chapter 3: Chassis

3.1 Chassis

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

![Information icon] 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

![Information icon] Please refer to the definition of masses for motor homes!

De.nition of Masses for Motor homes (2007)
Throughout Europe, EU Guideline 92/21/EWG is applicable for calculating the masses (weights) and resulting loads for motor homes. The terms and basis used for calculations are explained below.

1. Technically permissible overall mass
The figure for the technically permissible overall mass is based on information given by the Hobby Motor home Plant in cooperation with the manufacturer of the base vehicle. This mass was determined in extensive calculations and tests and, for safety reasons, it may 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 all of the equipment and liquids that are necessary to ensure safe and proper use of the vehicle. This includes the weights of:
## Supply of liquefied petroleum gas

<table>
<thead>
<tr>
<th></th>
<th>T 555 FS</th>
<th>Rest + Vans</th>
<th>T 650 + AK (3500 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No. of 11 kg gas bottles</strong></td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>No. of 5 kg bottles</strong></td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Weight of an 11 kg aluminium bottle</strong></td>
<td>5,5</td>
<td>5,5</td>
<td>5,5</td>
</tr>
<tr>
<td><strong>Weight of a 5 kg steel bottle</strong></td>
<td>6,0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Weight of 11 kg gas inflation (90 %)</strong></td>
<td>9,9</td>
<td>9,9</td>
<td>9,9</td>
</tr>
<tr>
<td><strong>Weight of 5 kg gas inflation (90%)</strong></td>
<td>4,5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>26 kg</strong></td>
<td><strong>31 kg</strong></td>
<td><strong>31 kg</strong></td>
</tr>
</tbody>
</table>

## Liquids

<table>
<thead>
<tr>
<th></th>
<th>T 555 FS</th>
<th>Rest + Vans</th>
<th>T 650 + AK (3500 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>200 l fresh water tank (90 %)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>100 l fresh water tank (90 %)</strong></td>
<td>90</td>
<td>90</td>
<td>-</td>
</tr>
<tr>
<td><strong>10 l fresh water tank (90 %)</strong></td>
<td>-</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total basic equipment:</strong></td>
<td><strong>116 kg</strong></td>
<td><strong>121 kg</strong></td>
<td><strong>40 kg</strong></td>
</tr>
</tbody>
</table>
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.

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

Hobby

5. Reduced load capacity for T 650 to 3500 kg

Before driving, you must open the overflow valve for the fresh water tank.

To reduce the weight when the vehicle is ready to start, the fresh water tank has been fitted out with an overflow valve, located to the right in the seat and marked with a warning sign. Before you begin driving, open the overflow valve. The contents of the fresh water tank will run off until, for weight reasons, only approx. 10 litres are left. When the vehicle is standing, the valve can be closed, allowing you to use the full volume of the tank.

A reduced fresh water supply when the vehicle is ready to start has been entered in the vehicle's registration papers. The motor home may only be operated on public roads when the overflow valve is open. The driver is responsible for ensuring that this requirement is fulfilled as well as for observing the technically permissible total weight.
3.3 Levelling supports

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

Swinging out the levelling supports
- To release the levelling supports, press the lever ① and pull it backwards.
- Swivel the levelling supports down.
- If necessary, secure the foot ② to prevent it from sinking into the ground and place it on a firm base.
- Place the crank on the hexagon head ③ and carefully tighten the levelling support.
- Use the crank to level the levelling supports until the vehicle stands level.

Retracting levelling supports
- Use crank to release levelling supports.
- Press the level ① and push the lower part of the levelling support upwards.
- Swivel the levelling support upwards until it is level.
- Press the level ① and push the levelling supports apart until they are secure to prevent their falling down.

- 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.
3.4 Entrance step

Your motor home has an electric entrance step ①.

Use the switch ② on the inside, next to the entrance door to activate it.

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

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

⚠️ After a slight delay the step will automatically be retracted when the engine is started.
3.5 Vehicle Identification Number (VIN)

The 17-digit Vehicle Identification Number is engraved in the right front side wheel arch. To improve readability the VIN is repeated on a label to the left of the instrument panel and is legible from outside the vehicle. In addition to this, the VIN is given on both the Ford model plate (on the B-pillar, passenger side) and on the Hobby model plate (in the engine compartment, at the front on the radiator bridge). Please have the VIN to hand when making any enquiries and on every visit to your dealer.

3.6 Additional pneumatic springs

Additional pneumatic springs on the rear axle (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.

⚠️ 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.

⚠️ 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.

3.7 Towing fixture

As an optional extra your motor home can be equipped with a fixed tow bar. Please see the registration documents for information concerning the tow bar load and the rear axle load.

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

Registering accessories in the vehicle's documents

- Have your HOBBY dealer mount your externally mounted fixtures.
- Drive your motor home to the Technical Surveyance Association (TÜV).
- The TÜV will survey your externally mounted fixtures and draw up an appropriate expertise.
- 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.
Chapter 4: Wheels, tyres, brakes

4.1 Wheels

On your first drive with your motor home, please check that your tyre bolts are still securely tightened after having driven 50 km and, if necessary, tighten them with a torque of **160 Nm for 15" wheel rims (steel and light metal) and 180 Nm for 16" wheel rims (steel and light metal)**. After this, the tyre bolts should be checked regularly that they are securely tightened.

4.2 Tyres

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

Driving to protect your tyres

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

Tubeless tyres have been mounted on your HOBBY motor home. Under no circumstances may tubes be inserted in these tyres!
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 (also refer to Table 12.2 Tyre Inflation Pressure).
- If checking or correcting the pressure of a warm tyre, the pressure must be 0.3 bar higher than for a cold tyre.

The following applies for inflation pressure:

- Correct inflation pressure •
- Inflation pressure too low •
- Inflation pressure too high •

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.

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

4.6 Snow chains

- Use snow chains only on the front axle.
- Never drive faster than 50 km/h.
- Do not use snow chains on snow-free roads.
- Ornamental hub caps must be removed before putting on snow chains.

Models with front-wheel drive

If you wish to use snow chains, the wheels on the front axle must use tyres size 195/75 R 16 C (M+S) on steel rims 5.5 J x 16 H2, ET 50. You may leave the tyres size 215/75 R 16 C on the rear axle. This tyre mix is covered by Ford’s basic approval and, therefore, does not require extra permission.

Tyres size 195/75 R 16 C (M+S) must be inflated to the maximum admissible pressure of 4.8 bar. Snow chains may only be used with steel rims and only on the front axle.
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.

A Shake the bottle. Open the fill hose 1 on the bottle (foil seal is thereby punctured).
B Unscrew the valve cap from the tyre valve.
Remove the valve insert ② with the valve core 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.
4.8 Changing a tyre

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

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

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

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

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.

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.
• 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.

4.9 Brakes

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

Directions:

- In your own interests, you should have the brakes checked regularly by your Fiat or Peugeot repair shop.

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.

Directions:

- Further information is given in the operating instructions for the Ford Transit.
Chapter 5: Exterior Structure

5.1 Overview of tank and service .aps

Van Exclusive

Van Exclusive L

T 555 FS Siesta Exclusive

T 600 FC Siesta Exclusive

Storage .ap
Toilet flap
Gas box flap
T 600 GFLC Siesta Exclusive

T 650 FLC Siesta Exclusive

Storage flap ①
Toilet flap ②
Gas box flap ③
5.2 Ventilation

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

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

Never cover the safety ventilation, not even partially.

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

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

Refrigerator
Grates supply the refrigerator with fresh air from outside to ensure sufficient refrigerating capacity. The grate for fresh air intake is on the outside wall of the vehicle. The grate for expelling used air 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) up as far as they will go (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 supplied with the motor home:
- two keys for the following locks on the basic vehicle:
  - Driver’s and passenger door plus bonnet unlocking mechanism.

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

Entrance door external

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

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

Opening
- Push the bolt down.

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.

⚠️ To avoid damaging the lock and the doorframe, the inner door handle must be in a horizontal position and not slanted upwards.

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

Opening
- Use key to unlock flap.
- Place your hand over the lock and give the flap a strong push inwards.
- Swing flap up and secure it with the hook.

Closing
- Lift the arrestor hook up and unlatch the flap.
- Swing flap down.
- Lock it with the key.

Toilet flap

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

Closing
- Press flap until it locks into place.
- Use key to lock flap ①.
Exterior gas supply

At the customer's request, the motor home can be fitted with an exterior gas supply ③. 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 ②.

Opening
• Pull the cover plate ① of the flap towards you.

Closing
• Press the cover plate ① of the flap shut until you hear it lock into place.
**Fresh water filler neck**

**Opening**
- Use key to unlock ①.
- Turn lid ② firmly and remove.

**Closing**
- Insert lid ② and turn it closed.
- Use key to lock ①.

**Tank filler cap**

The tank filler cap is located behind the driver’s door in the lower section of the B-pillar behind a flap.

**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 Ford 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 loading.
- Add the measurements of the roof load to the height of the vehicle.
- Place a note with the overall height in a visible position in the driver’s cabin to avoid having to calculate it when passing under bridges or through archways.

Only transport roof loads using an additional, suitable roof rack.
5.5 Bicycle carrier

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

- 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 (Van) or 60 kg (Siesta).

5.6 Load carrier

As an optional extra your motor home can be fitted with a load carrier equipped with an attachment kit for securing a motorcycle or a motor scooter. The driver is responsible for the safe and stable fastening of the load.
- The maximum load capacity is 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.

The load carrier can be fitted with special kits, e.g. for bicycles, luggage boxes or similar. Only SAWIKO mounting adapters are permitted for use; if other makes are used all guarantee claims will be forfeit.

5.7 Sun awning

As an optional extra your motor home can be fitted with a sun awning. Depending on the model the awning is either integrated into the lipping or attached to one of the side walls.

- 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 .aps

Stowage and kitchen wall cabinets

To open
• Press the pushbutton ① to unlock the .ap.
• 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.
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

Bath room door
• Push the handle to open and shut the door.
Furniture doors with turning knob

Wardrobes

• Turn the knob to open or shut the door.

Doors with snap locks

Kitchen wall cupboards, shoe cupboard

Opening
• Briefly push the door handle until it snaps open.
• Open the door.

Closing
• Push the door handle until the lock snaps into place.
Doors with push locks

Refuse cupboard

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

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

Sliding doors

Cupboard under the bed, washroom door

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

Closing
- 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

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.
6.3 Tables

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.
Hanging table
When lowered, the hanging table (D 690 GQSC model only) 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 it.
- 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.

Please note:
- To ensure that it is easier to pass through to the driver's cab, one of the table's longitudinal sides can be folded down using latch ①.
- The table pillar in model T 600 FC allows you to shift the table top somewhat by pulling on clamp ② located underneath the table top. This gives you easier passage to the driver's cab.

Hobby
• 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.

6.4 Bed conversion
The seating arrangements can be converted to comfortable beds.

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

Rearranging the cushions
VAN Exclusive L
Rearranging the cushions
T 600 AK GFLC Siesta

Rearranging the cushions
T 650 AK GFLC Siesta
Rearranging the cushions
T 650 AK FLC Siesta

Rearranging the cushions
T 600 FC Siesta

Hobby
In models T 555 FS and T 555 AK FS it is not possible to convert the seating arrangement into an additional bed.
**Widening the beds**

In the Van Exclusive L model, the two single beds above the rear garage can be widened and/or joined by folding out an additional plank.

- Fold out the additional plank ①.
- Place the two additional cushions ② on the surface.

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**6.6 Alcoves/queen-size bed, rear, crossways**

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 mobile 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!

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**Hobby**
6.7 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

The sunshade and insect screen are integrated in the window frame and can be combined. The combined shade can be adjusted in several positions.

Combining shades
- Pull the connection flap of the insect screen upwards.
- Latch the connection flap to the catch on the one-handed operation of the sunshade.

Adjusting the sunshade
- Press the one-handed operation of the sunshade together at the jaw and hold it.
Opening the insect screen

- Unlatch the connection flap of the insect screen from the catch and separate it from the one-handed operation.
- Use the connection flap to draw the insect screen down and do not let it snap back.

Skylight

The skylight cannot be opened. It is fitted with an integral dimming shade which can be drawn as required by pulling it.
6.8 Dimming system for driver's cabin

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

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

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

Front system ①
• Press the clasp together in the middle. The magnetic lock will automatically lock.

Side system ②
• Draw the clasp across to the rabbet. The magnetic lock will automatically lock.
6.9 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.

Opening the skylight

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

Mini Heki 400 x 400 mm
- 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°.

Midi Heki 700 x 500 mm
- 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

**Mini Heki 400 x 400 mm**
- Release the crank from the locking position and close the skylight. The skylight is automatically locked when it has been fully closed.

**Midi Heki 700 x 500 mm**
- 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.
6.10 Seats in the driver's cabin

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

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

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.
Swivelling seats

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

Cushion fastenings

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

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

Adjusting the height of the headrests

- Grasp the cushion on the headrest and push it to the desired position.

Converting the L-shaped seating arrangement / individual seat

If you wish to use the outer seat in models with an L-shaped seating arrangement or the individual seat in the T 600 FC model, you must convert these before you start to drive.

Conversion

- Remove the seat and back cushions.
- Fold back cushion cover ① by 180° and place it on the crossbench.
- Open locking bolt ②, swing the supporting wall out by 90° and then shut locking bolt ②.
- Replace the seat and back cushions on the crossbench. Sort the seat belts and buckles.
6.12 Seatbelts in the caravan

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

Operation
Locks are used to adjust the height of the seatbelts.

Buckling the seatbelt
Do not twist the seatbelt.
• If you use a model with a retractable restraint system, you must first press on the top cover to unlock it and then extend it in the direction you are driving.

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.
6.13 Overview of the seating arrangements

Van Exclusive

Van Exclusive L

T 555 FS Siesta Exclusive

T 600 FC Siesta Exclusive
6.14 Overview of day and night positions

Van Exclusive

Day position

Night position

Van Exclusive L

Hobby
Interior Structure

T 555 FS
Siesta Exclusive

Day position

Night position

T 600 FC
Siesta Exclusive

Hobby
T 600 AK GFLC
Siesta

Day position

T 650 FLC
Siesta Exclusive

Night position
Hobby

T 650 AK FLC
Siesta

Day position

T 650 AK GFLC
Siesta

Night position
Chapter 7: Electrical Installations

7.1 Safety instructions

The following must be observed:

- Do not remove the signs on electrical components giving safety instructions or danger warnings.
- Do not use the installation compartments for the caravan battery, on-board control panel, battery charger and 230 V connector box as additional storage room.
- Smoking and naked flame are forbidden when checking electrical equipment.
- Only authorised and experienced workshops may carry out electrical repairs.
- Inexpert handling of the vehicle’s electrical system may endanger your own life as well as that of others.
- Use only weatherproof, 3-wired extension cable and shock-proof 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 -
  Master relay, battery parallel relay (12V - 70A), refrigerator relay, pump relay, charging device, safety fuses, undervoltage protection.
- 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 consumers.
- 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.
- Open battery circuit breaker and switch off 230V mains before carrying out maintenance work.

Batteries
- Please observe the battery manufacturer’s operating instructions.
- The acid in the battery is poisonous and corrosive. Avoid contact with eyes and skin.
- 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.
- Unclamp the minus pole if the ancillary battery is not being used for a longer period of time (more than 1-2 months).
- 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.
- The charger functions in accordance with IU0U1 charging technology.
- In the case of misuse the guarantee and manufacturer’s liability will no longer apply.

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).
- Only connect and disconnect the system to the 230V external mains when the main switch is turned off.

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

Description

1 Button for monitoring fresh water tank.
2 Button for monitoring consumer battery (B2).
3 Button for monitoring vehicle battery (B1).
4 LED indicates test in fresh water tank; flashing indicates empty tank.
5 LEDs signal level of fresh water tank.
6 LED indicates test in waste water tank; flashing indicates full tank.
7 Flashing LED indicates full waste water tank; LED 6 also indicates alarm.
8 Indicates that generator is charging vehicle and consumer batteries.
9 LED indicates test of vehicle battery; flashing indicates empty battery.
10 LED indicates test of consumer battery; flashing indicates empty battery.
11 LED indicates that 230V mains is connected.
12 LED voltmeter for monitoring voltage of vehicle and consumer batteries.
13 Control switch for waste water tank resistance; dependent on main switch and functions when motor is switched on or 230V mains is connected.
14 Switch for water pump that operates pump relay; dependent on main switch.
15 Main switch for consumers; flashing LED indicates that consumer battery is almost empty and protection against total discharge will soon be activated.
### Distribution module

#### Fuses

1. 10A fuse for supply of the front tent light
2. 10A fuse for supply of the water pump
3. 10A fuse for supply of the heating/boiler
4. 20A fuse for the lights
5. 20A fuse for the lights
6. 30A fuse for supply of the 12V AES absorber refrigerator
7. 20A fuse for the aux supply (solar charger controller)
8. 25A fuses for supply of the electric step
9. 3A fuse
10. 3A fuse
11. Bridge circuit
12. Simulated D+ alternator output for electric step and refrigerator
13. Change-over switch must be in Position “A”
14. Verbraucheranschluss A
15. Verbraucheranschluss B
16. Anschluss Abwassertanksonde
17. Anschluss Frischwassertanksonde
18. Anschluss Controlpanel
19A. Signaleingang Zündung - Variante A
19B. Signaleingang Zündung - Variante B
20. Masseanschluss für Verbraucher
21. Anschluss für Minuspol der Aufbaubatterie
22. Anschluss für Pluspol der Aufbaubatterie
23. Anschluss für den Pluspol der Fahrzeugbatterie
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)

Electric power supply from the electric mains
The 230 V system is protected by a 2-pole circuit breaker with 16 A. The circuit breaker is located behind the driver's seat. Should there be a malfunction, the passenger circuit breaker opens the entire 230 V circuit. In most cases, such a malfunction is caused by a defect piece of electric equipment or a defect in its supply line.
- Repair the defect before switching the circuit breaker on again.
- If the defect cannot be repaired, consult an experienced electrician.

The following applies for the electric mains:
- the power supply lead may not be longer than 25 m

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 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 Function of the power generating unit

Position of the battery charger
The charger is located under the passenger seat.

Operation with 230V mains electricity
After the mains connection has been plugged in, both the modular and the vehicle battery will automatically be charged by the battery charger in the mobile home (even if the Control Panel has not been switched on).

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

- 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.

- 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.

Hobby
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

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.

If this does not happen after using the dynamo to charge the battery, check the following:

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

**Operation by means of a 12 V caravan battery**

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

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

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**7.5 Caravan battery**

**Location**
- Under the passenger’s seat or in a separate compartment which is accessible from the outside (SW has an additional battery).

**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.

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

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

Circuit breaker
To protect the modular battery from being exhaustively discharged when the mobile home is not being used, a circuit breaker 1 has been installed, which is located underneath, directly on the back of the passenger seat. When the switch is opened, the modular battery is completed disconnected from the 12 V mains.

| 🚭 | To charge the modular battery, the battery’s circuit breaker must be closed. |
| ⚠️ | When the circuit breaker is open, the electrical input stage will not engage automatically. |
7.6 Fuse protection of the electric system

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

12V circuits
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.

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

As an optional feature, your mobile home can be equipped with a mobile navigation system and integrated rear view camera, which can be clipped into a special holder on the dashboard. It then functions immediately. This holder has been built into the storable cup holder in the centre of the dashboard.

- Press the pushbutton (1) lightly forward.
- The holder (2) jumps up into a vertical position.
- First clip the bottom of the navigation device (3) into the holder and press down carefully until it locks into place.

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- This holder is suitable only for a Blaupunkt TravelPilot 500 navigation system.
- Remove the device from the holder when you park your mobile 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.
If you would like the integrated camera to use the road sign recognition function, the cup holder ④ must be raised using support ⑤, whereby the following must be noted:

- Remove the navigation device ③.
- Swing out cup holder ④ completely towards the interior of the vehicle (180°), allowing you to see the bottom.
- Fold out support ⑤.
- Swing cup holder ④ with the extended support ⑤ back to ensure the correct position for operating the navigation device and its camera function.
- Clip navigation device ③ as previously described into special holder ②.
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 Water supply

⚠️ The water supply system corresponds to the current sta-

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 suffi-
ciently heated.
Emptying the fresh water tank
• The outlet valve 1 is located either next to the fresh water tank in the seating arrangement on the outside wall or it can be accessed via a service flap.

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

Waste water tank
As an optional feature, the waste water tank can be outfitted with a heating cartridge (approx. 40 W) which prevents waste water from freezing in a light frost. Following activation of the waste water heating unit from the control panel it begins operation once the temperature of the waste water falls below approx. 8°C.

- Add 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.
- If the vehicle is not in use and the 12 V power supply is not in operation the waste water tank is insufficiently protected from freezing. Therefore, if there is any danger of sub-zero temperatures empty the waste water tank completely.
- Never pour boiling water down the sink. This can cause distortions and leaks in the waste water system.

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

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

Emptying the waste water tank

- The waste water opening is located on the left side underneath the vehicle.
- The valve for opening the waste water opening is located either directly by the opening or in a protected position in the bottle container, depending on the model.
- Unscrew the lid, open the valve or the ball valve and allow the waste water to run off.
- When the waste water has drained out completely push the slide valve back in and screw the cap back on.
Only empty your waste water tank at the specially designated disposal points and never in open spaces! As a rule disposal points can be found at motorway service stations; campsites and petrol stations.

8.2 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.
8.3 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 (special request)

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

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 hoses 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**
- 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.
- Never use portable cookers or heating devices, except electric heating devices, however not radiant heaters, since they can cause fires or 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 (T 555 FS and & 555 AK FS 1 x 11 kg and 1 x 5 kg). These are connected to the gas pressure governor mounted on the wall by means of high-pressure hoses with integrated protection against breakage. The governor is equipped with a gas flow monitor and an integrated test connection. Therefore, operation of the heating system while driving is explicitly permitted. The cylinders are secured using two independent straps.
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 (unless the heating is being used while driving).
- 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.

Changing gas cylinders

⚠️ Do not smoke or ignite open flames while changing the gas cylinders.

- 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.
- Hold the hose breakage protector; unscrew the knurled nut (left-handed thread) and remove the breakage protection and the high-pressure hose from the gas cylinder.
- 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.
- Put the hose breakage protector and the high-pressure hose back on the cylinder and screw up the knurled nut (left-handed thread) tightly by hand.
- Open the main stop valve; press the green button on the hose breakage protector and the silver button on the SecuMotion (gas governor).
- 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.
The LPG heating system in your motor home has been designed to allow operation while driving. The requirements of EU Guideline 2001/56/EC for heating devices have been fulfilled so that LPG cannot escape involuntarily if there is an accident.

The combined LPG heating consists of a warm air heater with an integrated hot water boiler (capacity: 10 l). The heating system is fully operational with or without the hot water system.

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

Operating panel
a) Rotary switch for room temperature (1-5)
b) green LED lights up: “ON”
green LED flashes: “COAST DOWN” to reduce the heater’s temperature.

The following applies to stop valves and valves:
- All the valves on gas devices must be closed while driving. The only exception is for the valves for heating devices being used while driving.
- 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.
c) Summer operation
   (Water temperature 40°C or 60°C)

d) Winter operation
   (Heating without regulated water temperature or with
    drained water system)

e) Winter operation
   (Heating with regulated water temperature)

f) Rotary switch “OFF”

g) Yellow LED lights up: “BOILER HEAT-UP PHASE”

h) Red LED lights up, red LED flashes
   “MALFUNCTION”: carefully clean the heater’s rotary
   switch with a brush.

**FrostControl**

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

If the system is under excess pressure intermittent pressure equalisation will automatically take place via the safety valve.

k) Rotary switch position “ON”

m) Push button position “CLOSED”

n) Push button position “DRAIN”

o) Drain outlet (to the outside through the vehicle floor)
Summer operation

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

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

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

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

The yellow LED (g) indicates the warming up phase for the water. The device will automatically select the performance level required. When the room temperature set on the operating panel has been reached the burner will revert back to the lowest setting and heat the water in the boiler to 60°C. The yellow LED (g) will go out when the water temperature has been reached.

Heating without regulated water temperature
- Set the rotary switch to operating position (d).
- Turn the rotary button (a) to the desired thermostat setting (1-5).

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

The device will automatically select the performance level required.

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

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

The green LED (b) for operation lights up and simultaneously displays the setting for the room temperature selected. The yellow LED (g) only lights up if the temperature of the device is below 5°C. The device will automatically select the performance level required. When the room temperature set on the operating panel has been reached the burner will turn off.

Turning off

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

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

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

Filling up the boiler

- Close the drain valve by pushing the button until it locks into place.
- Turn on the 12V power supply by turning on the main switch on the control panel.
- Turn on all taps and set them to “warm”. Leave them on until the boiler fills up due to the air displacement.
At temperatures below approx. 7°C turn on the heating first in order to warm up the installation area and the FrostControl on the drain valve. After a few minutes, when the temperature on the FrostControl is above 7°C, the drain valve can be closed.

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

9.4 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
Refrigerators manufactured by Dometic or Thetford can be used.

Before initial operation, please refer to the manufacturer’s operating instructions.

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

The refrigerator door has an automatic lock. If the door is closed and pushed firmly it will lock automatically. Thetford models have an additional safety catch underneath them. Dometic refrigerators can be secured using an additional door lock bolt.

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

9.5 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!

9.6 Oven

- Do not close the air vents on the oven.
- Only use the oven after making a 230 V or 12 V mains connection (automatic ignition).
- A skylight or window must be open when the oven is in operation.
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”.

⚠️ 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 (special accessory) for longer than 25 minutes.
- Never use the oven to heat the motor home.
Chapter 10: Maintenance and Care

10.1 Maintenance

Maintenance intervals

There are stipulated maintenance intervals for the motor home and its equipment. Also note the maintenance intervals for the basic Ford 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.

10.2 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!
10.3 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.
Maintenance and Care

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 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.

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.**

Cleaning the interior

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.

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!

10.4 Winter operation

Preparations
Thanks to the overall vehicle design your motor home is suitable for winter operation to a limited extent. For real winter use we recommend making improvements to your motor home in accordance with your personal taste. Your dealer will be happy to advise you.

The following applies for preparations:
- Check the vehicle for damage to varnish or rust. If necessary, repair damage.
- Ensure that water cannot penetrate into the ventilation systems or the heating system.
- Protect the metal parts of the underbody against rust with a wax preservative.
- Use a suitable material to preserve the exterior varnished surfaces.
- Fill the fuel tank with low temperature diesel; add antifreeze to the windscreen wash water and check the cooling fluid.
Winterizing your vehicle

In general:
- Only leave your motor home in a closed space if it is dry and easy to air. Otherwise, it is better to leave your motor home in the open.

The following applies for the interior fittings:
- Empty the refrigerator and clean it. Leave the refrigerator door open.
- Leave storage compartments and cupboards open to air.
- Place cushions and mattresses in such a way that they will not come into contact with condensation.
- If necessary, heat the motor home to avoid mildew due to condensation.
- Set up a dehumidifier and dry or change the granulate 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.
- Turn off the 12 V master switch.

The following applies for the exterior of the caravan and the basic vehicle:
- Use a suitable material to preserve exterior varnished surfaces.

- Protect the metal parts of the underbody against rust with a wax preservative.
- To care for the wheels, jack up the vehicle or move it from one spot to another every two months.
- Use a tarpaulin, leaving space between it and the vehicle to ensure sufficient airing.
- Leave the compulsory ventilation open.
- Air your motor home thoroughly every three to four weeks.
- Check the antifreezer in the cooling circuit, refilling if necessary.

The following applies for containers:
- Empty the fresh water tank with a pump or waste valve and clean it.
- Empty and clean the waste water tank.
- Empty and clean the WC tank.
- Completely empty the water heater by switching the fresh water pump on the on-board control centre to “off” and opening all faucets.
- Close the main stop valve on the gas cylinder and all separate gas stop valves. Always remove the gas cylinders from the gas bottle cabinet, even if they are empty.

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

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

The following applies for ventilation:
- When heating the vehicle, turn up the heating to the highest position and open the cupboards in the ceiling, curtains and blinds. This ensures optimum ventilation.
- Air all cushions in the morning; air the storage compartments and dry damp spots.

If, despite this, condensation should build up somewhere, simply wipe it away.

The following applies for the waste water tank:
- Switch the heating on if the temperature drops in order to warm up the waste water tank. If necessary, add an anti-freezing compound or table salt to the waste water.
- Store waste water outside of the vehicle.
- Keep the spout of the waste water tank open to protect it from freezing.

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.

Frost protection

If the interior is sufficiently heated, the fresh water tank, water pipes and water heater should not freeze.

Hobby
The following applies for the external structure:
• Extend the levelling supports to relieve the burden on wheels and axles to some extent.
• Use a protective agent to protect the metal parts of the undercarriage against rust.
• Leave space between tarpaulins and the mobile home so as not to hamper ventilation.
• Leave the forced ventilation open.
• Air the mobile home thoroughly every three to four weeks.

The following applies for containers:
• Empty and clean the fresh water tank.
• Empty and clean the waste water tank.
• Completely empty the boiler and the water pipes.

Please also refer to the information and operating instructions given by the manufacturers of built-in devices.
Chapter 11: Sanitation and Environmental Protection

11.1 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.
Sanitation and Environmental Protection

The following applies for waste water:
- Collect waste water on board only in built-in waste water tanks or, if necessary, in suitable containers!
- Never empty waste water in open spaces or down 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.

The following applies for wastes:
- Only use approved sanitary cleansing products in the waste tank.

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

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

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.
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.

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!
11.2 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 Ford dealer and expertly recycled.
## Chapter 12: Technical Data

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Series</th>
<th>Weight of basic vehicle [kg]</th>
<th>Driver</th>
<th>Diesel [kg]</th>
<th>Basic equipment</th>
<th>Mass when vehicle is ready to start [kg]</th>
<th>Techn. perm. overall weight [kg]</th>
<th>Overload weight [kg]</th>
<th>No. of seats</th>
<th>Conventional loading [kg]</th>
<th>Overload weight [kg]</th>
<th>Length of vehicle [mm]</th>
<th>Personal equipment [kg]</th>
<th>Remaining overload weight [kg]</th>
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These values refer to the standard vehicle without extra equipment. Deviations of up to 5% are possible.
12.2 Inflation pressures

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<th>Tyre pressure (bar)</th>
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<td>other tyre manufacturers*</td>
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* These tyre inflation pressures are only valid for standard tyres by alternative manufacturers (e.g. Continental, Goodyear, etc.)
### 12.3 Technical data

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<th>Model</th>
<th>Type</th>
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<th>Chassis</th>
<th>Tow-bar</th>
<th>Belt system</th>
<th>Seats</th>
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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
5) FIAT 130 Multijet: 95.5 kW (130 PS); 160 Multijet Power: 115.5 kW (157 PS) - IVECO 3.0 HPI 107 kW (146 PS); 3.0 HPT 130 kW (176 PS)
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### Increase and reduction of load capacity for mobile homes

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<th>Motorisation⑤</th>
<th>Alternative(s)</th>
<th>Chassis</th>
<th>Tow-bar</th>
<th>Belt system</th>
<th>Seats</th>
<th>Techn. perm. gross veh. weight [kg]</th>
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<td>FORD Transit FT 350 M</td>
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④ rear edge of traction unit to rear edge of back wall  
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### 12.4 Tyres and rims for basic motor home vehicles

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<th>Hobby Model</th>
<th>Series</th>
<th>Techn. perm. overall weight [kg]</th>
<th>Perm. axle load front</th>
<th>Perm. axle load rear</th>
<th>Tyre size</th>
<th>Wheel attachment*</th>
<th>Steel rims</th>
<th>Basic model with steel rims</th>
<th>Basic model with LM rims</th>
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* No. of tyre bolts / centralising collars / bolt circle

The Borbet CG65650 light alloy rim with identical measurements to the CWC65640 16" rim has also been approved as an alternative.
## Tyres and rims for loaded motor homes

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<td>5 / 65 / 160</td>
<td>6½ J x 16, ET 60</td>
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<td>3850</td>
<td>1750</td>
<td>2250</td>
<td>215/75 R 16 C</td>
<td>5 / 65 / 160</td>
<td>5½ J x 16, ET 56</td>
<td>215/75 R 16 C</td>
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<td>1750</td>
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<td>215/75 R 16 C</td>
<td>5 / 65 / 160</td>
<td>5½ J x 16, ET 56</td>
<td>215/75 R 16 C</td>
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<td>215/75 R 16 C</td>
<td>5 / 65 / 160</td>
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<td>215/75 R 16 C</td>
<td>5 / 65 / 160</td>
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<td>215/75 R 16 C</td>
<td>5 / 65 / 160</td>
<td>5½ J x 16, ET 56</td>
<td>215/75 R 16 C</td>
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<td>Siesta (D)</td>
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</tr>
</tbody>
</table>

* No. of tyre bolts / centralising collars / bolt circle

The Borbet CG65650 light alloy rim with identical measurements to the CWC65640 16" rim has also been approved as an alternative.
### 12.5 Accessory weights

<table>
<thead>
<tr>
<th>Object</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional power socket 12 V</td>
<td>0.5</td>
</tr>
<tr>
<td>Additional power socket 230 V</td>
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<tr>
<td>Air conditioning system Dometic B2200</td>
<td>34.0</td>
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<tr>
<td>Alloy wheels 16&quot; (4 pieces)</td>
<td>0.0</td>
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<tr>
<td>Bedspread</td>
<td>1.5</td>
</tr>
<tr>
<td>Bicycle carrier for 2 bicycles (Ford)</td>
<td>8.0</td>
</tr>
<tr>
<td>Bicycle carrier for 3 bicycles (Ford)</td>
<td>8.3</td>
</tr>
<tr>
<td>Blaupunkt mobile navigation with rear view camera</td>
<td>4.0</td>
</tr>
<tr>
<td>Carpet for driver's cabin</td>
<td>2.0</td>
</tr>
<tr>
<td>Carpet for living area</td>
<td>6.0</td>
</tr>
<tr>
<td>CD Radio</td>
<td>2.0</td>
</tr>
<tr>
<td>Cooker extractor hood</td>
<td>3.0</td>
</tr>
<tr>
<td>Cruise control WAECO for FORD</td>
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<tr>
<td>Dashboard, real wood, burl wood model</td>
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<tr>
<td>DVB-T Receiver (Radix DT 2000 TM)</td>
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<tr>
<td>DVD navigation system with video system for reversing,</td>
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<tr>
<td>Kenwood KNA-G300 (Ford)</td>
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<td>Electric wing mirror</td>
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<td>Extendable shelf for flat-screen TV</td>
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<td>External shower</td>
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<td>Ford central locking + remote control</td>
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<td>Ford KOMFORT Paket Siesta T 650 ...</td>
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<td>Ford KOMFORT Paket Van and Siesta up to T 600 ...</td>
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<td>Froli bed system</td>
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<td>Front tent light (Dometic)</td>
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<td>Gas level display Gim Plus</td>
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<td>Gel battery 2 units 110 Ah instead of 80 Ah</td>
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<td>Gel battery 80 Ah (additional)</td>
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<td>Goldschmitt additional pneumatic spring</td>
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<td>Headrests rear “Quicklift 330/380” for T 650</td>
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<td>Headrests rear “Quicklift easy” for Van</td>
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<td>Hobby ALL INCLUSIVE-Paket Siesta T 650 ...</td>
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<td>Hub caps 16&quot; for 2 axle vehicles</td>
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<td>Illuminated clothes rod</td>
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<td>Indirect lighting, wall (MSG)</td>
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<td>Insect screen for entry door</td>
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<td>Insulation mats for driver's cabin</td>
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<td>Leather seating arrangement</td>
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<td>Loudspeakers (additional) in living area</td>
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<td>Remifront dimming system for driver's cabin (pleated)</td>
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<tr>
<td>Object</td>
<td>Weight [kg]</td>
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<td>Roof rail Ford Van</td>
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<td>Seat covers for driver’s and passenger’s seats</td>
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<td>Skylight driving cab</td>
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<td>Skylight Midi Light 700 x 500 instead of Mini Light 400 x 400</td>
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<tr>
<td>Sun awning, fully integrated, 350 x 250</td>
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<td>TELECO satellite system Magicsat 85 cm</td>
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<tr>
<td>Winter cover for refrigerator grille</td>
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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 fulfill 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!