



OPERATION GUIDE 2022 BEACHY

Hobby
BUILT FOR LIFE



Dear Caravaner,

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

Please read this manual carefully, even if you have been caravanning for a long time. It will help you to avoid operating errors or causing damage to the vehicle and its equipment. Following the enclosed instructions will increase your driving comfort and maintain the value of your caravan.

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

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

Your
HOBBY Caravan Plant
Ing. Harald Striewski GmbH

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1.1 General information

Our caravans are continuously being updated. Please understand that we reserve the right to make changes to the equipment, shape and technology.

These operating instructions also describe equipment which may vary from the standard scope of delivery.

Therefore, HOBBY shall not be liable for any claims arising from the contents of this handbook. The equipment that has been implemented at the time of printing is described in these operating instructions. Equivalent equipment has been implemented in all of the different layouts. Please understand that we cannot describe all of the individual variations. Your dealer will be pleased to answer any special questions regarding the equipment and technology of your caravan.

Your HOBBY caravan has been built in accordance with the latest technology and recognised safety regulations. Despite all of these safety measures, it is possible that people may be hurt or the caravan damaged if the safety instructions in this handbook and the warnings posted on adhesive labels in the caravan are not followed.



We would explicitly like to point out that we do not accept any liability for damages or malfunctions that arise because these operating instructions have been ignored.

- Only operate the caravan if it is in perfect technical condition.
- Malfunctions that impair the safety of people or the caravan itself must be repaired immediately by a qualified engineer or company..
- The brake system may only be inspected and repaired by an authorised specialist.
- Specified inspection and MOT deadlines must be met.

Before your first journey

You should certainly familiarize yourself thoroughly with the contents of this handbook; it is much more than a reference book.

Fill out the warranty cards for the built-in appliances in the separate instructions, and send the warranty cards to the respective manufacturers. In doing so, you will secure your right to a warranty for all devices. Your HOBBY dealer will fill out the warranty registration card for your caravan.



In accordance with guarantee conditions, HOBBY gives you a 5-year guarantee through your dealer against leaks in the caravan. When you accept the vehicle you will receive the guarantee booklet, "Five-Year Guarantee on Watertightness" from your HOBBY dealer. Maintenance must be carried out regularly and maintenance intervals observed - this is a prerequisite for ensuring warranty. Maintenance must be carried out at regular intervals by an authorised HOBBY dealer and documented by him in the HOBBY Customer Service History booklet. In addition, all inspections are reported to HOBBY by its dealerst.

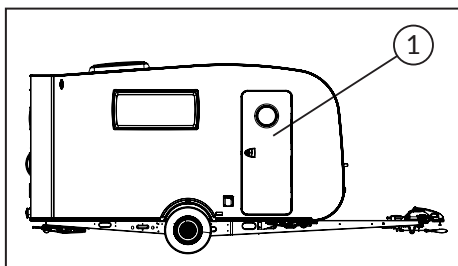


Annual water ingress checks are annual water ingress check free of charge.

Warning: If no annual water ingress check is carried out, your right to the 5-year guarantee loses its validity.

1.2 Key to using in These Operating Instructions

This operating manual explains the caravan as follows:



Indicating details with the help of position numbers

Texts and illustrations

The texts which accompany illustrations are found directly to the right of the illustrations. Details in illustrations (here: habitation door) are marked with position number ①.

Lists

Lists are set out in bullet-point form, indicated by a hyphen "-" in front of the first word of each point.

Procedural guidelines

Procedural guidelines are also based on key points and begin with a bullet point. "•".

Guidelines



Guidelines point out important details which ensure the trouble-free operation of the caravan and its equipment. Please bear in mind that various models have different equipment; therefore, varying descriptions are possible.

Warnings



Warnings point out dangers which, if they are not followed, could cause damage to equipment and/or injury to persons.

Environmental tips



Environmental tips show possible ways to reduce the effects on the environment.

Optional Extras

You have selected a caravan that is equipped to taste.

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

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

For technical reasons, optional extras cannot always be installed in all models. Should you have any questions, please speak to your Hobby dealer.



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

Relevance of This Manual

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

2.1 Intended use

This caravan has been designed as a mobile travel accommodation for private, not commercial use. This is a recreational vehicle that is fit for habitation. It offers accommodation that can be used temporarily or seasonally and which meets the requirements for the construction and use of the vehicle on the road. It is not intended for permanent residence. Furthermore, no more than the number of people for which this caravan has been designed may spend the night in the vehicle. When the caravan is on the road, it may only be used in accordance with road traffic regulations and national vehicle safety standards.

This caravan is exclusively suited to being towed by a car, not by lorries, buses or similar vehicles. It may not be used to transport people/animals and/or goods. While driving, people/animals may not remain in the caravan. When the caravan is on the road, it may only be used for carrying personal equipment. Transporting unsecured loads and/or packages is forbidden.

Please ensure that the technically permissible maximum weight of the caravan and the permitted axle load(s) per axle are not exceeded. No use of the caravan other than that described here is permitted; any other use is regarded as contrary to the intended use.

2.2 General information



Label for tyre pressure

- The caravan may only be driven on public roads by someone with a valid driving licence category for such vehicles.
- The individual manufacturer's operating and instruction manual(s) must be observed when using built-in devices (cooler, etc.).
- The measurements, weight and driving performance of the caravan may change if accessories or optional extras have been installed. Some accessories that are fitted after purchase of the vehicle must be entered in the registration document.
- Use only tyres and rims that have been approved for your caravan. Information on tyre and rim sizes can be found in the vehicle's registration document or in **Chapter 13.4 Tyres and Rims**.



Warnings and information labels are attached both inside and outside the vehicle. These are meant for your safety and must not be removed.

2.3 Fire protection

Fire prevention measures

- Never leave children and vulnerable persons alone in the vehicle.
- Keep flammable materials away from all heating and cooking appliances*.
- Changes to the electrical system or built-in devices may only be carried out by professional, authorised workshops.
- Keep an ABC dry powder fire extinguisher by the entrance door.
- Ensure that everyone is familiar with the guidelines on the fire extinguisher.
- Place a fire blanket near the gas cooker*.
- Keep all escape routes clear.
- Ensure that everyone is familiar with the fire prevention measures on site.

Fighting a fire

- Evacuate all passengers immediately.
- Disconnect the gas supply when using gas-operated devices.
- Gas containers* which cannot be removed should be cooled with water.
- Shut off the electrical supply.
- Sound the alarm and call the fire service.
- Only fight the fire yourself if this is possible without risk.

Smoke detector



Smoke detector

The caravan has been fitted with a battery-operated smoke detector on the ceiling. Should smoke be detected inside the vehicle, a loud alarm will go off, warning any passengers of a possible fire. The detector's own electricity supply, powered by the built-in 9V block battery, ensures that the smoke detector will function independent of the vehicle's electric system, even if the power supply has been switched off.

- To activate the smoke detector, pull the protective foil off the block battery and insert the battery.
- Use the test button to test the smoke detector.



Please refer also to the device manufacturer's operating manual.

For more information on using and changing the battery, please refer to Chapter **11 Maintenance and Upkeep**. A smoke detector will not prevent fires or put them out. If it is working properly, it will merely provide you with those possibly decisive seconds to save yourself and notify emergency services.

2.4 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

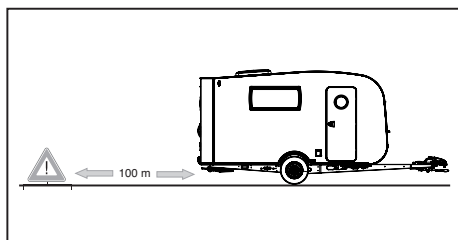
The first aid kit should always be kept handy. It should have a fixed place in the base vehicle/caravan. If things have been removed from the first aid kit or used they must be replaced as soon as possible.

High visibility jacket/vest

British regulations for carrying and wearing a high-visibility vest with white retro-reflective stripes in accordance with EN 471 whenever you step outside the vehicle on roads outside built-up areas or on the hard shoulder.

The driver must put on this high-visibility vest when the vehicle

- comes to a stop outside city limits on an obscure rural road because of an accident or breakdown, if the visibility is poor due to bad weather, in twilight or darkness, or
- when it must be highlighted by the use of a warning triangle on the hard shoulder because of an accident or breakdown.



Minimum distance between warning triangle and caravan

Warning triangle

The warning triangle should also be kept handy in a fixed place in the base vehicle/caravan, 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!



Please observe the national regulations of the countries you are driving through with regard to carrying and wearing emergency equipment.

2.5 Before the journey

2.5.1 What to observe before your first journey

Vehicle registration (Germany)

Every vehicle which uses public roads is subject to registration. This includes your new caravan. You can register the caravan at your local registration office.

The following documents are required to initiate the registration process:

- Motor Vehicle Registration Certificate Part II and/or Certificate of Conformity (CoC)
- Electronic Insurance Certificate/eIC Number
- personal identification or proof of residence
- possibly, power of attorney to have someone else register the caravan.
- if applicable, direct debit mandate for taxes

If required, please do not forget to apply for a „100“ speed sticker.

General inspection (Germany)

In accordance with Section 29 of German Road Traffic Licensing Regulations, your caravan must undergo a major inspection every two years.

A general vehicle inspection can be carried out by an officially recognised expert (e.g. DEKRA Expert mobile home inspection).

The following documents must be presented at each inspection:

- motor vehicle registration certificate, Part I
- valid certificate of inspection for gas facilities, documenting installation. Your dealer will give you the initial certificate.



Any changes made to the caravan that fall under national traffic regulations must be approved and entered in the registration document! If you have any further questions or difficulties, your authorised Hobby dealer will always be available to assist you!



"100" speed sticker

Fit for a Speed of 60 mph (Germany)

1. Your HOBBY caravan is technically equipped for a maximum speed of 60 mph. Under no circumstances may this speed be exceeded!
2. Note the permissible maximum speeds for towing in the country in which you are travelling!
3. Road traffic regulations in **Germany** were changed on 22 October 2005. Your caravan was already set to be towed at 100 KPH at the factory, and this has been entered in the caravan's registration documents. Upon request, the 100 KPH sticker will be issued by the road traffic authority when the caravan is initially registered and attached to the back of the vehicle.
4. The following points must be observed, because you are responsible for adhering to them. If they are not met, the maximum speed for the caravan is 50 mph!
 - a) The base vehicle must be equipped with an anti-locking system/anti-lock device and may not exceed an overall mass of 3.5 tons.
 - b) The caravan must be equipped with hydraulic vibration dampers (shock absorbers); naturally, your new HOBBY caravan is equipped with these.
 - c) The caravan's tyres should be changed after a maximum of six years. They must be marked at least with an L (= 75 mph) for the appropriate speed category.
 - d) The caravan must be equipped with a stabiliser hitch in accordance with ISO 11555-1. This is a standard feature in all Hobby models.

The overall mass of the caravan may not exceed the unladen mass of the car.

5. Free interchangeability of tow vehicle and caravan: Different caravans may be combined with different tow vehicles.
You are responsible for ensuring that the preceding regulations are met if you plan to drive at 100 km/h.
6. The correct noseweight gives you more safety:
Please refer to chapter 3.3.2 for the recommended noseweight.



• **Tighten the nuts on the wheels after driving the first 50 km with your caravan.**



Please familiarise yourself abroad about any national regulations that may apply with regard to registration and general inspection and whether you are permitted to tow your caravan at 100 KPH.

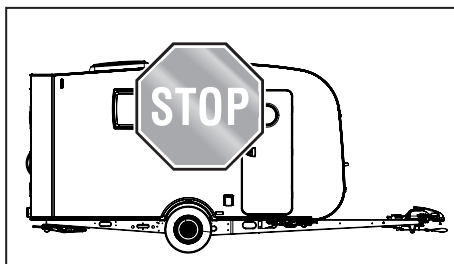
2.5.2 Before each journey

Road safety

- The electric connection between the tow vehicle (your car) and the caravan must function perfectly.
- Before driving, check that the signalling and lighting systems and brakes function correctly.
- If the vehicle has not been used for a longer period of time (approx. 10 months) have the brake system checked by an authorised specialist.
- Set the vehicle's wing mirror.
- 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. (see also Chapter 13.5 Tyre pressure values)



Only begin to drive when your caravan fulfils all of the conditions for roadworthiness.



Prepare the vehicle before driving!

As the driver of this vehicle, you are responsible for the state of the car and caravan. Therefore, you must note the following points:

Interior

Preparing the interior:

- Close and firmly lock all of the windows and roof lights.
- Sort all loose objects and store them in their respective compartments.
- Store heavy and / or voluminous objects (e.g. radio, awning, beverage cases) safely before you start your journey, securing them to prevent them from shifting (**see also Chapter 3.3 Loading**).
- If necessary, switch the cooler to operate in 12V mode.
- Ensure that no liquids, including those in the cooler, can leak out.
- Switch off the gas supply from gas-operated devices*.
- Lock all doors and drawers securely (lock the central locking system for the kitchen drawers).
- Close and lock the rear flap.
- Store the entry step securely inside the vehicle.
- Secure the table and, if possible, lower it.
- Switch off the interior lighting and move height-adjustable lights to their upper position.

Exterior

Check around the caravan and ensure everything is secure for your journey as follows.

Preparation of the vehicle:

- The caravan must be hitched up correctly (**see Chapter 3.4 Stabiliser hitch Chapter 3.4**).
- Release the hand brake for the caravan.
- Rotate the rotating stanchions and front landing wheel upwards and secure them.
- If necessary, disconnect the cable for the 230V mains connection from the external socket.
- Close and lock the entrance door.
- If necessary, secure any bicycles on the bicycle carrier*, lashing them with the fastening straps to prevent them from slipping, and ensure that the rear tail lights are not covered. If the bicycle carrier has not been loaded, fold it in and secure it. (**see Chapter 5.6**)
- If necessary, secure the spare tyre holder.
- If necessary, stow the awning inside the vehicle.



Do not overload the caravan! The permissible axle loads, the technically permissible maximum weight as well as the permissible height, width and length of the caravan must be observed!

Ensure that there is sufficient ventilation. Never cover up built-in forced ventilation (skylights with forced ventilation or mushroom vents). Ensure that forced ventilation is not covered by snow or leaves as this increases the **danger of suffocation**.



Place a note with all important measurements and weights in a clearly visible place on the dashboard.

2.6 While driving

Driving



Staying in the caravan during the drive is prohibited by law!

Take a test drive or a safety training course before the first long drive to better acquaint yourself with the carriage in driving conditions. Practise driving in reverse.

Rules for driving

- Do not underestimate the total length of the car & caravan (rig). Due to the relatively long rear overhang, larger caravan can swing out and, under adverse conditions, the rear end of the caravan can hit the ground.
- Take extra care when driving toward yards and through gates.
- In conditions with strong side winds, slick ice or wet roads, the caravan could move back and forth.
- Adjust driving speed to overall street and traffic conditions.
- Long, lightly sloping roads are potentially dangerous. Measure your speed from the outset in such a manner that the car & caravan can be accelerated, if necessary, without endangering other drivers or pedestrians.
- If the caravan moves back and forth on a sloping road, brake carefully but rapidly to bring the caravan back into line.
- **Never** increase speed if the caravan becomes pendulous.
- Do not drive down a hill any faster than you would drive up one.
- Long, gently sloping downhill slopes can be dangerous. Calculate your speed from the very beginning so that, if necessary, it is still possible to accelerate without endangering other road users.
- When overtaking or being overtaken by trucks or buses, the caravan can be caught up in air suction. This could cause the caravan to sway or become pendulous.
- Drive with foresight; on longer trips, stop at regular intervals for breaks.

Driving around curves

The combined length of your car & caravan together (rig) is considerably longer than a car.

The following applies for driving in curves

- Do not take curves too quickly or too sharply!
- Take the curve at a somewhat wider radius when turning.
- Note that the caravan can swing out if you turn too quickly.

Brakes

A car and caravan together (rig) behaves differently from an individual vehicle while braking. Therefore, it is advisable (especially for inexperienced drivers) to conduct several braking tests on a suitable surface. The braking distance for the rig is longer than that of an individual vehicle. The load in the caravan also has a significant influence on the braking distance.

Rules for braking

- Note the longer braking distance on wet roads.
- When driving down a mountain, do not select a gear that is higher than the one used when driving up a mountain.

- During long drives over passes or steep and twisty country lanes, the can cause the caravan brakes to over run constantly and can cause the wheel brakes to heat up considerably. If necessary, you should allow enough time to enable them to cool down again.



Due to the design of the brakes, there may be increased wear in the brake lining during the initial break-in phase. Despite carrying out automatic brake adjustments on all HOBBY trailers, the basic setting for the brakes must be checked by an authorised specialist and adjusted if necessary (initial inspection) after having driven 500 km.



Should there be any defects or malfunctions in the driving performance of the caravan, please notify roadside assistance and have any maintenance and repair work carried out by an authorised specialist.

Driving in reverse

Your HOBBY caravan has a braking system with automatic reverse. It enables you to drive backwards without applying the brakes, because the overrun coupling does not differentiate between overrunning or reversing the caravan. When you back up the caravan, you must first overcome a slight residual brake torque in order to activate the automatic reverse. You can then back up the caravan without any difficulty. The next time the caravan moves forward, the normal braking facility is then automatically applied again.



The caravan's brakes are deactivated when you drive in reverse.

Rules for driving in reverse

- The caravan turns in the opposite direction in which you steer.
- Get one someone to guide you when reversing the caravan.

2.7 After each journey



Front grab handle



Rear grab handle

Shunting (moving caravan by hand)

In most cases your caravans will be longer and wider than your car.

Tips for maneuvering your caravan.

- There is a significant blind spot when moving the caravan, even when the exterior mirrors are properly adjusted.
- Use a another person when turning into difficult parking spots especially in reverse..



When positioning the caravan manually, only use the grab handles at the front and rear ends of the caravan. Never push on the plastic parts or the walls.

Choosing a parking place

Rules for choosing a parking place:

- If at all possible, check the place selected for parking in daylight.
- The parking place should be as horizontal as possible.
- Check to see that the entry step is positioned horizontally.

- Level the caravan lengthwise using the jockey wheel.
- If on uneven or sloping ground level the the caravan sideways using boards or wheel chocks.



Do not use the corner steadies to compensate for uneven ground.

Securing the vehicle

Rules for securing the vehicle:

- Apply the handbrake brake.
- Only extend the corner steadies to the point where the axle still assists in bearing the weight (The crank is located in the wardrobe or drawbar stowage box*).
- If the ground is soft, place supports under the corner steadies.
- Use the wheel chocks to secure the wheels. They are located on the drawbar stowage box*.



A spring brake on the brake lever ensures that the brakes will not disengage by themselves, even if the rotation direction is reversed from driving forwards to backwards. If you have activated automatic reverse, the brake lever must be moved beyond the dead centre position to its final position.

To ensure that the hand brake does not freeze, only pull on it gently when the temperature reaches 0° C or lower.

Switching over electrical devices

Instructions for redirecting electrical devices

- Switch cooler from 12V to 230V, because the 12V supply will automatically be switched off after a brief period of time when the (car's) engine is not running.



If the camper socket has been attached to the car in a manner conforming to standards (DIN ISO 11446), the car's battery will not be discharged when the ignition has been switched off and you have forgotten to switch the cooler from 12V operation.

Water installation

Water left standing in the fresh water tank or the pipes quickly becomes undrinkable.



Please empty any residual water from the water tank before filling it with fresh water.

Therefore, check the water pipes and the fresh water tank before each journey to ensure they are clean. Disinfect and rinse the drinking water facility regularly, and always before each journey.

3.1 General information

Frame parts and axles are components of the undercarriage. No technical modifications are allowed; otherwise, the terms of operation are no longer valid!



Technical changes are allowed with the manufacturers permission.

For the sake of traffic safety, the vehicle undercarriage must be maintained just as conscientiously as the base vehicle itself. This maintenance should be carried out by your HOBBY dealer. If spare parts are required, use only the original parts supplied by the manufacturer.



Generally, caravans are not suitable for pulling by lorries or buses. If this is done permanently, they will be damaged.

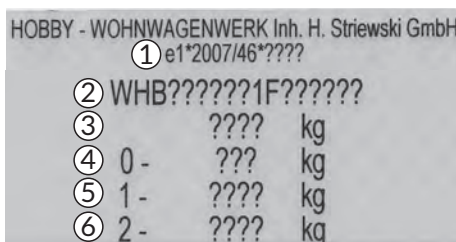
3.2 Vehicle ID number (VIN)

The 17-digit vehicle ID number is located at the front right-hand side of the forked A frame.

Additionally the Vin number is on the sticker in the gas box.

Please have your VIN at hand for any inquiries or whenever visiting your dealer.

Name plate



Hobby name plate

- ① Permit number
- ② Vehicle ID number (VIN)
- ③ Permissible maximum weight
- ④ Max. nose weight
- ⑤ Permissible axle load, 1st axle
- ⑥ Permissible axle load, 2nd axle



Do not remove or change the name plate.



The name plate is located on the side wall to the right of the entrance door.

3.3 Loading

3.3.1 General information

Rules for loading:

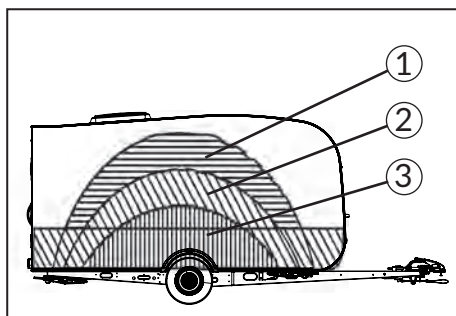
- Distribute the additional load evenly between the left and right-hand side of the vehicle. Heavy or bulky items should be stored close to the axles.
- Never load your caravan with the weight towards the rear (danger of swaying back and forth).
- The lower the caravan's centre of gravity, the better its driving performance and response in curves.
- Stow baggage and light objects (clothing) in storage compartments inside the vehicle.
- Heavy objects should be stowed securely to prevent them from moving.
- You may not always be able to follow the recommended stowing arrangement, because storage possibilities are distributed throughout the whole interior of the caravan. If necessary, put heavy objects in the tow vehicle.
- Secure doors and lockers.
- Check the technically permissible maximum weight and the axle load after you have finished loading.



The maximum axle loads entered in the documentation for this vehicle as well as the technically permissible maximum weight must not be exceeded. Overloading can cause the tyres to break down or even burst! This increases the danger that you may lose control of the vehicle. Therefore, you endanger yourself and other road users.



If you are not sure whether or not you have overloaded the caravan, you should have it weighed at a public weigh bridge.

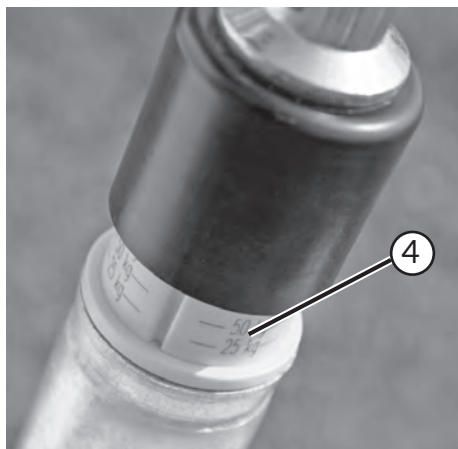


Stowage areas

Stowage areas in the caravan

- Light objects ① such as towels and lightweight laundry.
- Medium-weight objects ② such as clothing, laundry and food.
- Heavy objects ③ such as the awning, boat engine or beverage cases.

3.3.2 Tow hitch load



Nose weight display on the jockey wheel

You will only achieve optimum driving stability and decisively increase your safety on the road if the nose weight has been properly adjusted for your combination of base vehicle and the caravan being pulled. The nose weight indicates the power the caravan's A frame exerts on the car's clutch.

Rules for the nose weight load:

- Set the nose weight correctly! You can, for example, use normal bathroom scales: use a strip of wood (approx. 400mm long) to position them vertically under the hitch head. It may also be possible to roughly estimate the nose weight by means of the nose weight indicator ④ integrated in the front landing jockey wheel, to do this the A frame of the caravan must be in a horizontal position.
- Always check the nose weight before you start to drive!
- The specified loads (see no. 2. or the Vin sticker) as well as the permissible maximum weight of the car and caravan (the "rig") must not be exceeded!

How to adjust the correct nose weight:

1. Determine the maximum nose weight of your tow vehicle by checking its documentation, the chassisplate or the drawbar plate.
2. **The maximum permissible nose weight for your HOBBY caravan is 100 kg.**
3. Adjust the nose weight on the caravan to the lower of the two values by loading it carefully. At the same time, try to make full use of this value.
4. The lower of the two specified values for the nose weight, i.e. that of the tow vehicle or the caravan, may not be exceeded.

3.3.3 Meaning of weights for the caravan

EU Directive 1230/2012 applies at a European level for vehicles when calculating the masses (weights) and resultant additional loads for caravans. The terms and basic calculation elements used in this description are explained in the following:

1. Gross vehicle weight rating (g.v.w.r.)

The indication of the gross vehicle weight rating is taken directly from the HOBBY factory. This mass takes into account the specific operating conditions that are based on the model of the caravan and its specifications, including such factors as material strength, load-carrying capacity of the axles and tyres, etc. For safety reasons, this mass must never be exceeded!

2. Mass in running order

The mass when ready to drive is equal to the weight of the standard caravan including all of the standard equipment installed by the factory plus all of the equipment and liquids that are required for the safe and correct use of the vehicle. The basic equipment in the BEACHY series includes the filled 13 litre fresh water canister; thus, it weighs 13 kg.

3. Additional equipment / optional extras

Mass of the equipment that was assembled by the manufacturer in or on the caravan in addition to the standard equipment. These optional extras will be shown in the actual mass of the vehicle if

- they are not part of the standard spec of equipment,
- Hobby was responsible for assembling them,
- the customer can order them.

4. Actual mass

Sum of the mass when ready to drive and the optional extras or additional equipment assembled by the manufacturer.

5. Loading capacity / additional load

Difference between the technically permissible maximum weight and the actual mass of the vehicle.

6. Minimum loading capacity

The loading capacity must be equal at least to the formula:

10 x (n + L), whereby:

n = highest number of sleeping spaces

L = total length of the superstructure

The minimum loading capacity includes objects that users may carry in the caravan which are not included in the mass when ready to drive or in the optional extras (e.g. clothing, toilet and kitchen fittings, food, camping equipment, toys).

The remaining additional load (5.) must always be greater than or equal to the minimum loading capacity (6.); this must be taken into account when determining the configuration of the vehicle.



If the vehicle does not hold the equipment and liquids set out in the table in **Item 2** (mass when ready to drive), the loading capacity/additional load (**Item 5**) can be increased by this value.

3.4 Stabiliser hitch KS 25



Stabiliser hitch

The caravan has been fitted with a stabiliser hitch (class B50-X) with friction pads to reduce fish-tailing. This system conforms to ISO 11555-1. It has been permitted for use up to a maximum speed of 100 km/h.

Please note the additional operating instructions and the manufacturer's safety instructions.

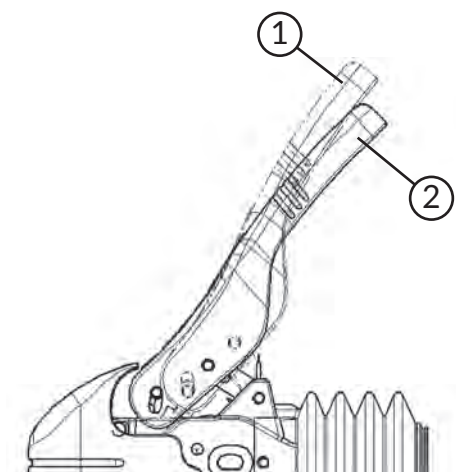


WARNING: A stabiliser hitch does not suspend the laws of physics. If the limits (of speed and weight conditions) are exceeded, traction and cornering force are reduced, which then becomes the responsibility of the driver. Therefore, avoid elevated risks.

The stabilising effect on the rig that can be achieved depends to a great extent on the effectiveness of the friction pads in the tow bar and the state of the hitch ball. Therefore, always check the friction pads regularly for wear and tear. There must not be any oil or grease on the friction pads.

The caravan's driving stability also depends to a great extent on the load, tyre pressure and condition of the tyres.

Before your first trip, please observe the information given in **Chapter 11.2 Maintenance and Upkeep** regarding the ball on the tow bar if it has a Dacromet coating (a dull-silver coating for corrosion protection) or is painted / lacquered.



Opening and closing the stabiliser hitch

Preparation for hitching/unhitching

- To hitch and unhitch, open the stabiliser hitch (lever in position ①).



The stabiliser hitch may only be used with Class A tow balls (ball with a diameter of 50 mm in acc. with ISO 1103) as set out in regulation ECE R55.

WARNING: Ensure that the ball of your tow bar is clean and free of grease.

Hitching

- Connect the break-away cable to the eyelet provided for that purpose (see 3.6 Handbrake, section on Rapid-emergency brake).
- The open stabiliser hitch is set onto the tow ball of the tow vehicle. Push down on the handle to shut the safety hitch automatically (handle in position ②). Normally, the support load is enough to achieve this.
- Insert the 13-pin plug while turning, in accordance with the screw thread.
- Secure the jockey wheel (see 3.5 Front Landing Wheel).



Do not step on the drawbar when the trailer is hitched. The maximum loads for the caravan and/or base vehicle could be exceeded and the combination could buckle.

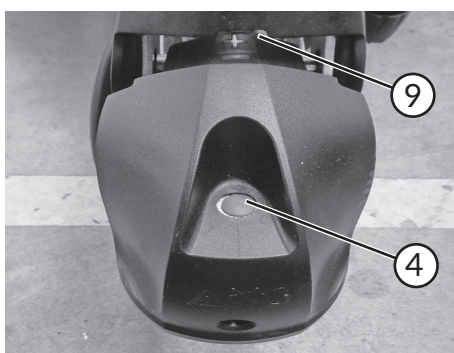
Use only the grab handles provided to manoeuvre the caravan (see 2.7 After driving) and never the lever of the KS 25.

Do not use the hitch as a lever to lift the caravan!

When dealing with higher nose weights hitching and unhitching is simplified by the use of a support wheel.

Do not reach into the open stabiliser hitch! This could trigger the locking mechanism, causing the hand(s) to be crushed.

The stabilising function must always be activated when driving!



Tow ball location indicator and position of wear indicator



If the KS 25 is not properly attached to the tow ball, the caravan can detach from the tow vehicle. After hitching up, the green pin (ball indicator) must be visible! If not, reopen the tow bar and hitch it up correctly.

It must not be possible to release the hitch from the tow ball when the jockey wheel is lowered.

Activation of the stabilization system

- To do this, press as far down as possible on the handle in the closed position ② to position ③. After pushing the handle down to position 3, the spring-loaded friction pads mounted on the socket are pushed against the ball of the towing vehicle's trailer hitch. When the hitch is locked on correctly the hitch handle will lay parallel to the hitch bar.
- Since a certain amount of force is required to activate the stabilising device, we recommend that you first apply force on the handle (as shown in the illustration on the left, position ⑤) and then apply the actual clamping force as shown in position ⑥.

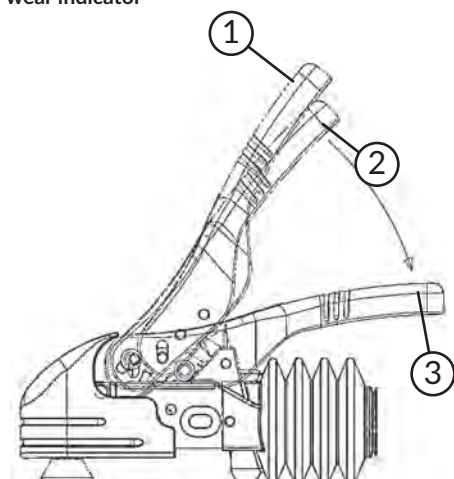
Releasing the stabilization system

- Slowly pull the handle upwards past the dead centre position so that it automatically jumps to position ②.

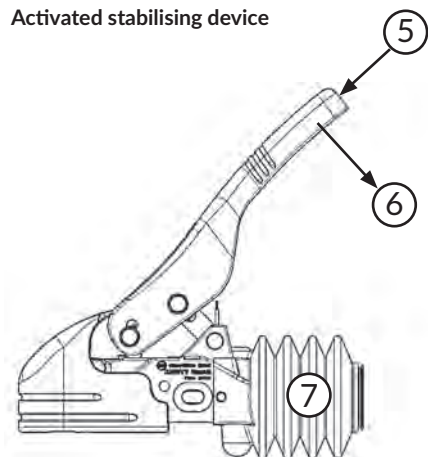


If the stabilising device has been activated, there must be no vehicle parts or attachments on the handle while driving. This means that if the drawbar is pushed in and, at the same time, the KS 25 is turned, this must not result in a collision with the hand brake lever or other attachments.

Never drive when the stabilising device has been deactivated!



Activated stabilising device



Easy activation

Unhitching

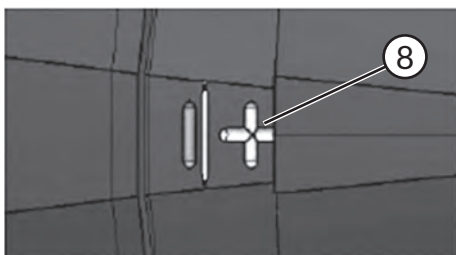
- Make sure that overrun gator ⑦ is fully extended. It will not be possible to release the hitch from the tow ball if it is compressed.
- Pull the handbrake on and secure the caravan with wheel chocks if necessary.
- Pull the 13-pin plug and then release the break-away cable.
- Slowly pull back the handle and then upwards into position ② to disengage the friction pads.
- Then pull up the handle as far as possible to position ① so that the coupling is completely open. Lock the handle in this position.
- After the jockey wheel has been wound up, the caravan can be disconnected from the tow vehicle.



Only uncouple the caravan when it is in a horizontal position, never anywhere near uphill or downhill slopes.



If you do not plan on using the caravan for a longer period of time, you should store it with the ball coupling closed.



Wear indicator for the friction pads

Maintaining the stabilizing device

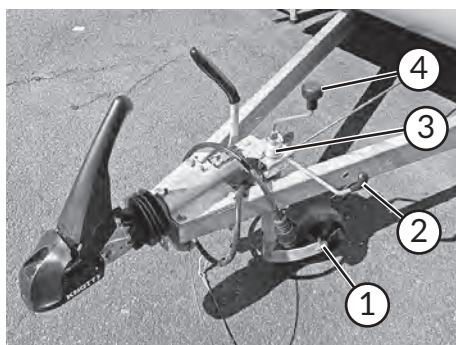
After connecting the hitch and locking down the handle, this engages the friction pads. You can see the condition of the friction pads from the wear indicator ⑧:

- If the wear indicator ⑧ is in the green "+" zone, the friction pads are suitable for driving.
- If the indicator is on the dividing line, the friction pads must be replaced (see Chapter 11.2 Hitch head).
- If the indicator is in the red "-" zone, there is no stabilizing function. The friction pads must be replaced without delay. Permission to drive at 100 km/h is immediately cancelled. The caravan may not be driven until the friction pads have been replaced.



If the friction pads are new, optimal shock absorption is reached after a certain period of operation. If the friction pads must be replaced, the state of the tow ball on the tow vehicle must also be checked.

3.5 Jockey wheel



Jockey wheel lifts upwards and locks in place

Rotating it upwards and securing it

- Hitch the caravan to the towvehicle, aligning the jockey wheel ① to the rear end of the caravan.
- Loosen the clamping handle ②.
- Pull the jockey wheel ③ up as far as possible.
- Tighten the clamping handle ②.
- Turn the handle of the jockey wheel ④ clockwise to raise the wheel as far as possible into the cut out to prevent it from moving and winding itself down.



Before driving, always make sure that the jockey wheel is up as far as it will go and it tight to prevent it from coming down when in transit.

To lower

- Loosen the clamping handle ②.
- Lower the jockey wheel ③ as far as possible until the front landing wheel is approx. 70 mm above the ground.
- Tighten the clamping handle ②.
- Turn the handle on the jockey wheel ④ anti-clockwise to lower the wheel until it touches the ground.
- Unhitch the caravan from the tow vehicle and, if necessary, lower the jockey wheel further.

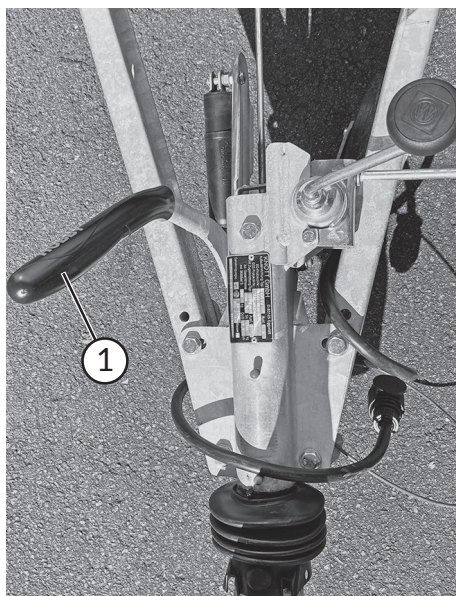


The maximum mass that the support wheel and its clamping mechanism can support is equal to the maximum permissible drawbar load (100 kg; exception: model 720 = 150 kg).

3.6 Handbrake operation

The components of the brake system, especially the hitch head, damper and their operation and wheel brakes have been checked in accordance with the corresponding EU directives and may only be used in the licensed combination.

If you alter or modify any components of the brake system, the operation permission loses its validity. Modifications may only be made with the manufacturer's permission.



Hand brake facilities

Parking the caravan

When parking the caravan, the hand brake of the caravan must be activated.

To lock

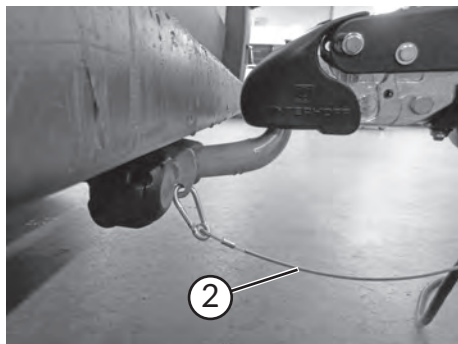
- Pull the locking brake lever upward by the handle ① until it locks into place. The hand brake lever is pressed into the final position by the gas pressure spring.

To release

- Push the hand brake forward to the starting position.



When you park the caravan after reversing it, the hand brake must be moved beyond the dead centre position to its final position in order to ensure that it is fully effective.



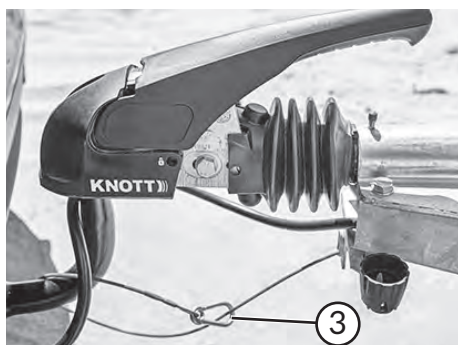
Fastening the rapid-emergency brake (Breakaway cable) by means of the eyelet on the tow coupling

Rapid-emergency brake



Please observe national regulations on fastening the rapid-emergency brake, as applicable.

The rapid-emergency brake (Breakaway cable) is combined with the hand brake. If the caravan is involuntarily disconnected from the base vehicle, the hand brake will be tightened or moved beyond the dead centre position by the breakaway cable pulling on the handbrake ②. The hand brake will be employed and the caravan will do an emergency stop. This prevents the caravan from continuing to roll without braking after it has been disconnected.



Fastening the rapid-emergency brake without an eyelet

To fasten the breakaway cable to the base vehicle, clip the carabiner into the eyelet provided (where this depends on the base vehicle model). If no eyelet has been provided, wrap the breakaway cable once around the tow-bar, forming a loop, and fasten the carabiner directly to the cable (see photo Fig. ③).

Should you exchange the carabiner, ensure that you get an equivalent replacement. The standard version of your Hobby caravan is equipped with a carabiner used by fire departments. A so-called spring hook must not be attached directly to the eyelet, because it can only supply the strength required to fully apply the brake if it is the fastener for a loop.



Before driving, the breakaway cable must be fastened to the tow vehicle.

3.7 Overrunning equipment and wheel brakes

The overrunning brake facility consists of the overrun coupling, a brake damper and the wheel brakes. Should the caravan push towards the tow vehicle under braking, the overrunning brake facility ensures that it will automatically brake. In other words, the overrunning brake facility functions independently from the base vehicle's brake system. The brake force that is generated depends mainly on how intensely the towing vehicle brakes and how heavily the caravan has been loaded. A damper integrated in the overrun coupling and with a defined response threshold ensures, on the one hand, a smooth overrun while, on the other hand, preventing the caravan from braking if you only take your foot off the accelerator or change gears in the tow vehicle.

Checking the overrunning equipment



We recommend that you always check this is functioning correctly before using the caravan.

1. If it is possible to push the hitch head more than halfway (approx. 5 mm) in when the hand brake has been activated, the braking system must be adjusted immediately by an experienced technician or workshop.

2. To check the reaction point:

Activate the hand brake and push the caravan backwards until the hand brake lever is completely tilted. Then push the hitch head into the overrunning equipment. The hitch head should slide back to its fully extended position by itself by means of the gas cushion in the hydraulic damper. Should this procedure take longer than 30 seconds, the overrunning equipment must be checked by an experienced technician or workshop.

Wheel brakes

All Hobby caravan models have an automatic brake adjustment that independently compensates for wear in the brake shoes.

- Regular adjustment of the brakes is not necessary.
- Brake adjustment is automatically deactivated when reversing.

Despite this brake adjustment, the brake shoes are generally wear and tear parts. Therefore, their condition must be checked every 5,000 km, but no later than once every year. Visual inspection is carried out through the small inspection holes on the rear of the wheel brakes.

Please go to an authorised specialist if, when checking the overrunning brakes, the drawbar can be pushed in more than 45 mm.



Every caravan must undergo an initial inspection by an authorised specialist after the first 500 km (**see also 11.3 Brakes**).



- When driving downhill on a mountain pass, check to ensure that the brakes are cooled sufficiently.
- Put the tow vehicle into a lower gear and drive downhill at slow speed.
- Stretch the car and trailer as often as possible to prevent the caravan from continuously bumping into the car.
- Always make use of service areas and lay-bys to give the brakes a chance to cool off.



Please read the separately enclosed operating manual of the axle/brake manufacturer (Knott).

3.8 Electronic Trailer Stabilisation (ETS Plus)*

ETS Plus is a safety system that can be retrofitted for HOBBY caravans with a mechanical overrun brake. It automatically recognises if the trailer starts to sway and, if necessary, can stabilise the car and caravan by applying the caravan brakes.



A special MOT inspection is not required for installing ETS Plus.

The ETS Plus system makes use of an LED on the A frame to indicate whether the connection to the car has been carried out correctly. After hitching, the ETS Plus will start an auto-test. After approx. 3 seconds, the LED turns green. The rig is now ready to drive. Please refer also to the manufacturer's separate operating instructions.



- Before your journey, check the light-emitting diode (LED) on the ETS Plus.
- ETS Plus operates within a temperature range of -20°C to +65 °C.
- Do not reach into the moving parts of the ETS Plus central unit!
- The steady plus on the 13-pin socket on the car must be safeguarded by means of a fuse with at least 15A but not more than 20A.
- The increased level of safety provided by ETS Plus should not, however, result in undertaking a safety risk. The vehicle's speed must always be adjusted to take weather, road and traffic conditions into account.
- The limits imposed by the laws of physics cannot be suspended by ETS Plus. Please keep this in mind when driving on wet or icy roads.
- Caravans with a high centre of gravity may turn over before they begin to sway.
- No improper modifications may be/have been made to the brake system as this could interfere with the function of the ETS Plus.

If the LED on the ETS Plus is not continuously green, please refer to the following table:

LED display	Meaning	To eliminate
Blinking green (fast) x_x_x_x	Brake intervention or auto-test (possible to continue driving)	-
Blinking green (short pulses) x__x__	In power-saving mode (possible to continue driving)	After driving for approx. 3 seconds, the system will switch to ready mode.
Blinking green (slow) xxx__xxx__	System or brakes too hot (possible to continue driving)	Continue to drive with care. After 120 seconds, the cooling system will switch to ready mode.
Blinking red light _x_____	Electric supply fault (e.g. loose contact or voltage too low) (continue to drive prudently)	<ul style="list-style-type: none"> • Check the (plug-in) cabling. • Unplug the system for 20 minutes, then plug it in again. If this does not help: contact a dealer/authorised specialist.
Blinking red light _x_x_____	Mechanical fault (e.g. no brake cable connected/ brakes badly worn out/ system installed incorrectly) (continue to drive prudently)	<ul style="list-style-type: none"> • Visual inspection of brakes/assembly of ETS Plus/ check that braking system is properly adjusted. • Unplug the system for 20 minutes, then plug it in again. If this does not help: contact a dealer/authorised specialist.
Blinking red light _x_x_x____	Error in the central unit (e.g. handbrake is on/ brake rigging preloaded during assembly) (continue to drive prudently)	<ul style="list-style-type: none"> • If necessary, release the handbrake (overrunning equipment should be fully extended). • If necessary, check that the brake rigging is properly adjusted. • Unplug the system for 20 minutes, then plug it in again. If this does not help: contact a dealer/authorised specialist.
LED does not light up	ETS Plus is inactive (continue to drive prudently)	<ul style="list-style-type: none"> • Unplug 13-pin trailer cable from tow vehicle. • Visual inspection of plug and contacts. • Check that there is steady plus on the socket. • Plug in 13-pin trailer cable to the tow vehicle. If this does not help: contact a dealer/authorised specialist.

4.1 Wheels

The following applies for wheel bolts:

If you are driving a new vehicle, or after changing a tyre, tighten the wheel bolts or nuts after you have driven the first 50 km and then again after the following 100 km.

For your safety, do not use any tyres or wheel bolts other than what was originally stipulated. Wheel bolts and nuts should then be checked regularly to ensure that they fit tightly.

Tightening torque for wheel nuts and bolts:

Rim	Wheel bolts	Tightening torque
Metal wheel rim	M12 x 1,5 x 24	110 Nm
Light alloy rim	M12 x 1,5 x 28	120 Nm



Check the tightening torques every 5,000 km or at least once a year.

4.2 Tyres

Within the registration certificates part I and II there is a tyre size for each caravan, this doesn't necessarily have to match the tyre size fitted to the caravan but you can only fit tyres that are approved by the manufacturers, if in doubt please contact your dealer. Other possible tyres are listed in the CoC (Certificate of Conformity).

- Check tyres regularly to ensure that the tread is worn down evenly; check tread depth; check for damage.
- Always use the same make and model of tyres (summer or winter tyres).
- Drive carefully on new tyres for a distance of approx. 100 km to enable them to develop a full road grip.

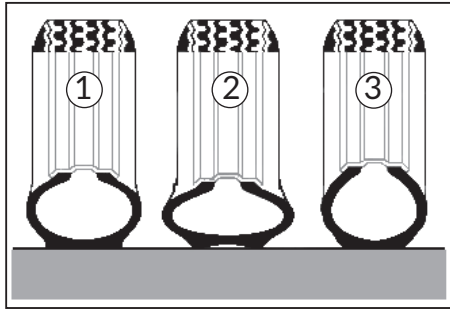
Driving to protect the tyres

- Avoid braking sharply or driving off with a racing start.
- Avoid long drives on poor roads.
- Never drive when the vehicle is overloaded.

4.3 Tyre pressure

Tips for checking tyre pressures:

- Check and correct tyre pressure every four weeks (but at least every three months) and before every journey.
- Tyres must be checked when they are cold.
- When inspecting or correcting warm tyres, the pressure must be 0.3 bar higher than when the tyres are cold.
- If driving on low tyre pressure is unavoidable (i.e., from the campsite to the nearest service station) you should drive at a maximum speed of 20 km/h.



Different tyre pressures

Rules for tyre pressure:

- correct tyre pressure ①
- tyre pressure too low ②
- tyre pressure too high ③



If the tyre pressure is too low, the tyre can overheat. This can result in serious damage.

If the tyre pressure is too high, this leads to higher tread wear and it may cause damage to the suspension.



Please refer to the table “**Tyre pressure values**” in **Chapter 13 Technical Data** or the stickers on the hub caps for the correct tyre pressure.



Information sticker for tyre pressure

4.4 Profile depth and age of tyres

New tyres are needed (at the latest) when the profile depth measures 1.6 mm.



The minimum tread depth only guarantees minimum safety while driving!

Tyres should never be exchanged from one side to the other, i.e. from the right-hand side of the vehicle to the left-hand side and vice versa.



Tyres age even when used rarely or not at all.

Tyre manufacturers' recommendation

- Change tyres after six years, regardless of profile depth.
- Avoid striking curbs, potholes or other obstacles.



DOT number

Age of tyres

You should change your tyres before they reach six years old because the rubber deteriorates over time and also when they don't move for long periods of time. You should not drive at 60 MPH with tyres that are over 6 years old. The four digit DOT code on the side of tyre (if necessary, check the inner wall) shows the date of manufacture. The first two digits refer to the manufacturing week, the last two digits to the manufacturing year.

Example:

DOT 0421 means week 4 in the year of manufacture (here: 2021)

4.5 Rims

Only use rims that are covered by the vehicle licence. Should you wish to use other rims, please note the following:

Rules for the use of other rims:

- Size,
- the pitch Circle Diameter (PCD) and the wheel offset.
- compression depth and
- the load/bearing capacity must be sufficient for the permissible total mass.
- The wheel bolts must be the correct type for the wheel rims fitted.



Modifications can only be made with the manufacturer's permission.

Rules for wheel screws

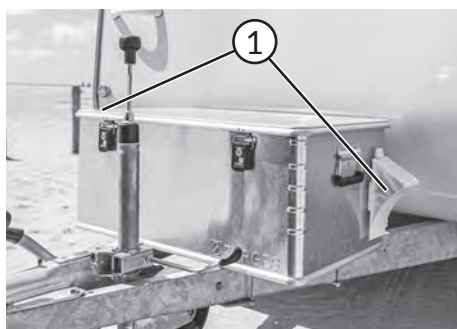


Wheel bolts for all 14" metal wheel rims and all light alloy rims: **cone washer**



When changing rims (steel -> aluminium / aluminium -> steel) ensure that you are using the correct wheel bolts.

4.6 Changing a wheel tyre



Chocks on the drawbar stowage box



Placing the chocks under the wheel

Preparing to change the tyre

- If possible, only change the tyre when the tow vehicle is coupled to the caravan.
- Park the car and caravan on as firm and even a surface as possible.
- If you have tyre trouble on a public road, turn on your hazard warning signal lights and set up the warning triangle.
- **Tow vehicle:** Pull the hand brake, shift to first gear and align the wheels so that they are straight; when driving an automatic, set the gear to P.
- **Caravan:** Pull the handbrake, leave the jockey wheel in its driving position, release the hitch handle, to the first position (note: do not open completely).
- Remove the chocks ① located on the drawbar stowage box*.



If there is no drawbar stowage box* on the vehicle, the chocks are located by the entrance door on the right and left side beneath the vehicle.

- If necessary, place chocks ① in front of and behind the wheel that is still in good order so as to secure the caravan.



Threaded lock nut on the spare tyre mount



Spare wheel holder in chassis beam

Spare Tyre*

The spare wheel is located on a holder under the caravan. This is an option and is model specific.

To remove the spare tyre, the caravan must be unhitched and placed on the hitch in order to raise the rear end of the vehicle.

Remove the spare tyre

- Unhitch the vehicle and raise it.
- Loosen the thread locker ①.
- Unhook the spare tyre mount from the chassis beam ②.
- Carefully lower the mount.
- Loosen the threaded lock nut on the spare tyre.
- Remove the spare tyre from its mount.



If the caravan has alloy rims, note that the correct wheel bolts are used if your spare wheel is a steel rim.



It takes some skill and strength to remove the spare tyre. If necessary, request technical assistance (e.g. from the AA) to remove the spare wheel and change it.

Changing the wheel

- If the vehicle is parked on soft ground, lay a stable reinforcement under jack* (i.e., a board).
- Set the corresponding jack* onto the fixed part of the axle not the swinging arm or on the chassis beam as close as is possible to the axle on the side where the wheel is being changed.
- Before jacking up the caravan, loosen the wheel bolts one full revolution, but do not remove them.
- Lift the vehicle until the wheel is 2 or 3 cm off the ground.
- Reposition the ratchet jack* handle if it should slant when you jack up the vehicle.
- Remove the wheel bolts and the wheel.
- Place the spare tyre on the wheel hub and align it.
- Reattach the wheel bolts and hand tighten them.
- Lower the jack* and remove it.
- Tighten the wheel bolts evenly with the wheel wrench. The nominal value of the attachment torque is 110 nm for steel rims and 120 nm for aluminium rims.
- Release the handbrake and push the hitch handle back down to reengage the friction pads, activating the stabiliser..



After changing the tyre, the wheel bolts must be examined (after a 50 km drive) to ensure that they are tight enough (tighten if necessary).

Only use the specifically designed jack* for the corresponding frame parts.

For example, on the axle or the chassis beam close to the axle fixing point.

Damage or even an accident resulting from the vehicle's toppling over can occur if the jack* is applied to other parts of the vehicle.

The jack* is only to be used for changing tyres. It may not be used for working under the vehicle!

Danger of death!

The corner steadies **must not** be used as a jack*!



You should have a functional spare tyre available at all times. Therefore, have the spare tyre replaced without delay.

4.7 Tyre repair kit



Tyre repair kit



Parts included in the repair kit

All models are equipped with a tyre repair kit; this is part of the standard equipment.



Do not use the tyre repair kit if the tyre was damaged as a result of driving without air. Small punctures (of up to 6 mm), especially in the tyre tread, can be sealed using the tyre repair kit. Do not remove foreign objects (such as screws or nails) from the tyre. The tyre repair kit can be used when the outside temperature ranges from -30°C to +70°C.

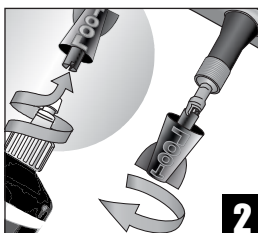
Using the tyre repair kit will only help to make the tyre temporarily usable. The tyre should, however, be checked and repaired as quickly as possible by an experienced technician.



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



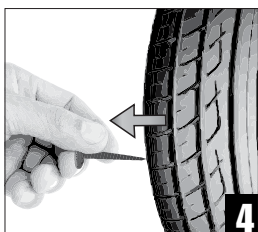
Positioning the tyre



Unscrewing the valve core



Letting air out of the tyre



Removing a foreign object

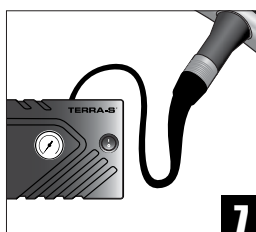
- 1 Turn the tyre so that the valve is visible on the upper half of the tyre.
- 2 Unscrew the valve cap and then slowly unscrew the valve core using the enclosed valve wheel wrench. Always hold the valve core firmly when applying the wrench.
- 3 Let all of the air out of the tyre.
- 4 If possible, remove the foreign object from the tyre.



Pushing the filler hose onto the tyre valve



Screwing the valve core tight



Pumping up the tyre

- 5 Shake the bottle of tyre sealant. Screw the white attachment on to the bottle, then attach the filler hose and connect it to the valve. Fill in the recommended amount of tyre sealant.

- 6 Pull off the filler hose. Insert the valve core with the aid of the valve wheel wrench and screw it tightly shut

- 7 Screw the air hose on to the tyre valve. Connect the power supply cord to the cigarette lighter. Press the ON/OFF button to switch the compressor on. Shut the compressor off as soon as the correct tyre pressure has been reached. Then remove the power supply cord and unscrew the air hose. Screw the valve cap back on.

Never let the compressor run for more than 10 minutes at a time! **Risk of overheating!** Allow the compressor to cool down for 25 minutes before using it again. Resume driving immediately, so that the sealant can be evenly distributed within the tyre. **Maximum speed: 80 km/h. Drive carefully, especially around bends or corners.**



If the tyre is completely flat, it may come off the wheel rim. In this case, air would escape when it is pumped into the tyre. Should this be the case, use a car jack* to jack up the trailer before pumping air into the tyre.

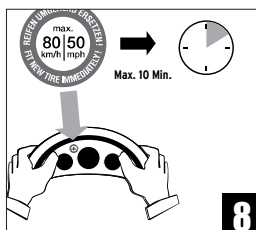


Danger of accidents! If the required tyre pressure is still unattainable, the tyre is too severely damaged. In this case, the tyre repair kit can no longer provide an effective seal. Therefore, do not drive any further. Notify a replacement tyre company or call out your chosen breakdown service.

The compressor gets hot when in use. **Risk of burns and scalding!**

The car's engine must not run when the compressor is being used. The hand brake must be on.

Store the compressor out of the reach of children!



Mounting stickers in the driver's field of vision

- 8 Stop after having driven for 3 km and check both the sealing and the tyre pressure. Attach the enclosed sticker to the inside of the car's front window. Drive carefully to the next repair shop and have the tyre replaced.



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

5.1 Forced and fixed ventilation

The following applies for ventilation

Proper ventilation and dehumidifying of the caravan is a prerequisite for ideal living comfort. Vents for draft-free forced ventilation have been integrated in the floor ① of your caravan; for forced dehumidifying, they have been integrated in the roof lights. You must not interfere with their mode of operation.



Under no circumstances may the safety ventilation be blocked, not even slightly.

Keep the grilles and coverings clean and dust-free.



We recommend that you open the roof bonnets whenever you stay in the caravan.

Cooking, wet clothing, etc., produces vapor. Every person loses up to 35 g of water per hour. Therefore, depending on the relative humidity, please ventilate and dehumidify through the windows and roof lights.

5.2 Opening and closing doors

Keys

Two keys that fit the entrance door are supplied together with the vehicle.

Entrance door



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

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



Entrance door

External entrance door

To open

- Gently turn the key to the left (for a door with the hinges on the left and right for a door with the hinges to the right) until you hear the lock open.
- Turn the key to a horizontal position and pull it out.
- Pull on the door handle.
- Open the door.

To close

- Close the door.
- Gently turn the key to the right (for a door with the hinges on the left and left for a door with the hinges to the right)
- Turn the key to an upright position and pull it out.



Entry step tread

Entry step

When entering and exiting the vehicle:

- Place the entry step in front of the entrance door to the caravan.
- Ensure that the step is placed on a level surface; this prevents the step from falling over.



Note the varied step heights and, when exiting, ensure you will step onto firm and even ground. The entry step can support a maximum load of 200 kg.



Entrance door

Interior of entrance door

Opening the door

- Press the door handle ① down and push the door out to open it.

Closing the door

- Use the door handle ② to guide the door back into its frame and pull it inwards until it clearly and noticeably locks.



Locked door handle

Locking the door from the inside

- Turn the door handle ① to an angle of about 45° upwards (see illustration).



In this position, the door is locked and can only be opened from the outside with the key for the entrance door.



Fly screen for entrance door

Fly screen



The fly screen curtain in the entrance door as well as the rear flap is positioned by closing it the same way as a curtain. To open it, carefully pull the two sides of the curtain back to their original position.



The fly screen may only be pulled shut when the door is open so as not to prevent an escape route in an emergency and avoid any damage to either the entrance door or the fly screen.

Only shut the door after the fly screen has been pushed back to its original position!



Partitioned rear flap

Partitioned outer rear flap



The upper flap and the lower door can only be opened and closed from the inside.



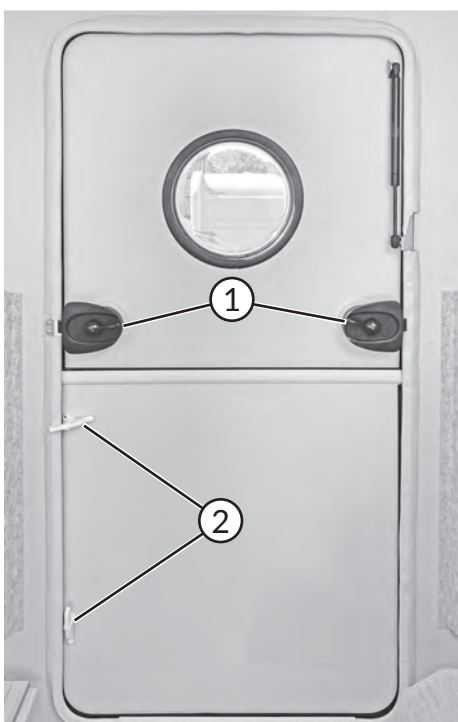
You could be seriously injured! Because of its high position on the vehicle, the rear flap is not meant to be used for entering or leaving the vehicle!



Top flap open



Both flaps open



Partitioned inner rear flap

Partitioned inner rear flap

Opening the upper flap

- Press down on the handles ① and push the flap outwards and upwards to open.

Closing the upper flap

- Guide the flap back into its frame and pull it inwards until it clearly and noticeably locks.

Opening the lower flap

- Turn the twist locks ② to an upright position and swing the flap open to the right.

Closing the lower flap

- Guide the flap back into its frame and turn the twist locks ② to a horizontal position.



Before closing the flaps, check that the curtains are not caught in the sealing.



Door retainer

Locking devices for doors and flaps

The entrance door and the lower part of the rear flap can be fastened using the locks on the outside wall of the vehicle.

To lock

- Open the door or flap all the way.
- Press the male part that is fastened to the door into the female part on the outside wall of the caravan. Take care to ensure that it clicks firmly into place.

To unlock

- Pull the pieces apart.



Doors and flaps must always be closed before driving.



Cover flap

Cover flap

The access to water or electrical components is covered by these flaps; for example:



CEE external socket

Opening

- Grasp the cover flap at the bottom of the latch and pull it up.

Closing

- Grasp the latch of the cover flap and close it until it clicks into place.

Please refer to the appropriate chapters on water (**Chapter 8**) and electricity (**Chapter 7**) for information on handling the individual components.



When driving, the cover flaps must always be firmly shut.

Never fill any type of liquid (e.g. diesel, oil or cleaning solutions) other than water into the fresh water tank.

5.3 Corner Steadies



Turning corner steadies in and out



Supported caravan

The corner steadies are located in the front and rear under the caravan.

Winding the corner steadies down

- Park the vehicle as horizontally as possible.
- On soft ground, lay a sturdy mat or suitably sized board under the feet of the corner steadies to prevent the caravan from sinking.
- Push the winding handle onto the hexagon head and lower the corner steadies.



The corner steadies must only be used for support, and not for leveling or lifting the caravan.

Winding the corner steadies up

- With the winding handle, turn the corner steadies up to the horizontal position.

The crank for the corner steadies is located in the wardrobe or drawbar storage box*.



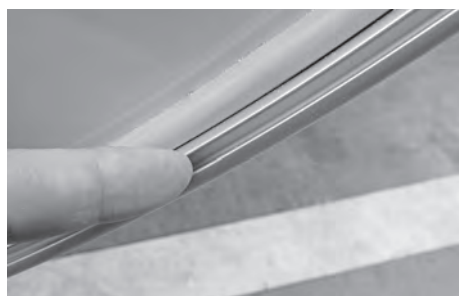
Always lift the corner steadies all the way up before driving away!

5.4 Roof



Do not step on the roof of the BEACHY!

5.5 5 Awning rail



Rail for sliding in the awning

The keder of the awning slides into the guide rail for the outer tent on both sides of the camper, both at the front and rear ends.



- The awning provides protection from the sun, but not all-weather protection.
- Before driving, the awning must always be fully retracted and secured.



"BEACHY" awning

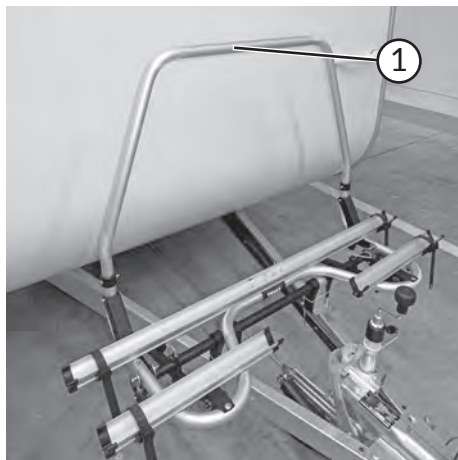
The wheel cover has an integrated keder strip for sliding in the mud-guard (protective wind cover not included in the scope of delivery).

5.6 Bicycle carrier*



Please read the separate operating instructions before using the bicycle carrier.

Before driving for the first time, take some time to practice so as to familiarise yourself with driving conditions.



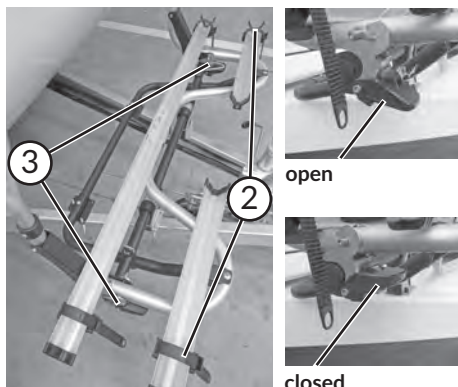
A frame bicycle carrier



After loading the bicycles, please check the nose weight and, if necessary, regulate it (**see also Chapter 3.3 Loading**).

Please observe the maximum load-carrying capacity of 60 kg for the A frame bicycle carrier, whereby each individual bicycle may not weigh more than 30 kg.

When maneuvering by hand or driving around curves, you should leave a wide angle, because otherwise, depending on the model, the bicycle (carrier) may collide with the tow vehicle.



Straps and locks

When driving with bicycles, the front and back wheels of each bicycle must be firmly lashed using the straps ②. The fastenings included in the accessory kit are used for the frame. When driving, close the locks ③. When the vehicle is not being moved, the lever ① can be folded down. To do this, the locks ③ must be opened.

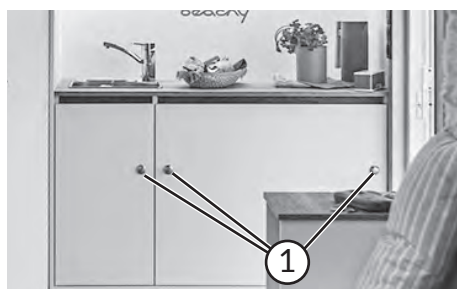
6.1 Opening and closing doors and drawers



Door handle

Walk-in wardrobe/Porta Potti*

- Push down on the handle to open or shut the door.



Pushlock in connection with kitchen cabinet and drawer

Kitchen drawer/cupboard with pushlock

The cabinet and drawer are each secured by a separate pushlock ①.

To open

- Press the pushlock ① (latching button) so that the button pops out.
- Pull on the pushlock until the drawer slides out or the cabinet door opens.

To close

- Push the pushlock to shut the drawer or the door of the cabinet.
- Press the pushlock ① (press-lock knob) until the knob snaps in and the drawer/door is securely closed.



Hanging stowage compartments in the kitchen

Hanging stowage compartments in the living room/kitchen

To open

- Release the rubber bands from the lower hooks. Stow or remove objects.

To close

- Hook the rubber bands on the lower hooks.



You could be seriously injured! Never let rubber bands snap.

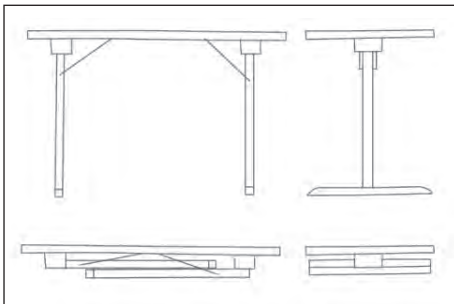


Store only light objects in the hanging stowage compartments.

6.2 Folding table



Folding table

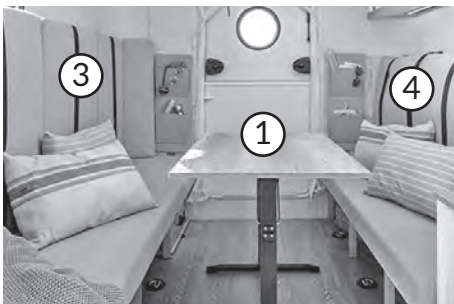


Folding table

To lower

- Unhook the brackets and fold the table legs inwards.

6.3 Seating and sleeping areas

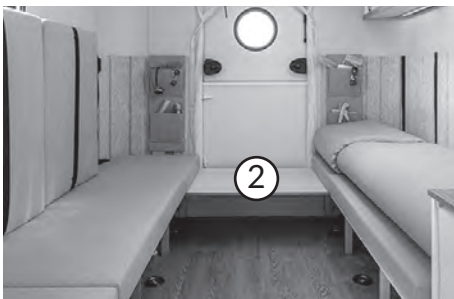


Converting the seating area

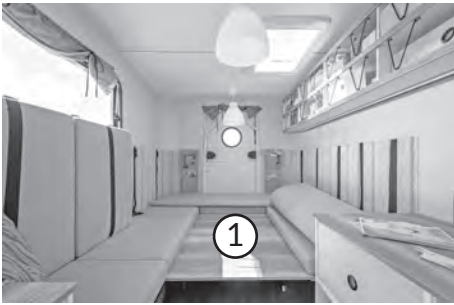
The seating area can be converted to comfortable beds.

Preparing to convert the bed

- Fold the two folding tables ① together (see Chapter 6.2 Tables).



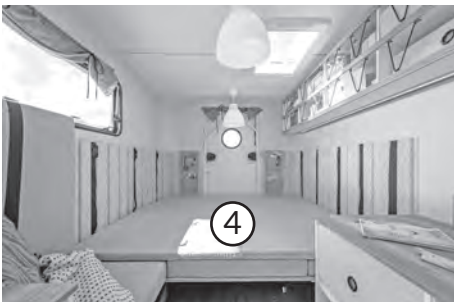
- Place the separate board ② as an extension between the bench seats.



- Place the two folded tables ① as an extension between the bench seats.



- Place the back cushions ③ from the side of the vehicle as a mattress on the extension between the bench seats.



- Place the back cushions ④ from the side of the vehicle on the mattress as a topper.

6.4 Rearranging the cushions



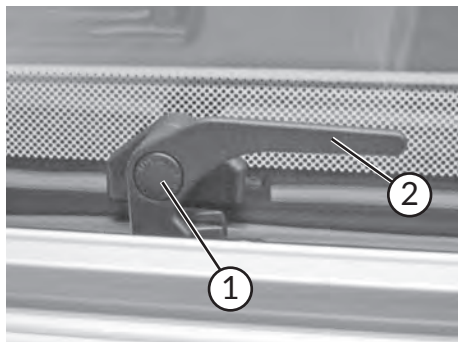
When converting the seating area into a bed, do not place the cushions directly on the surface of the table. There is a danger that it could be scratched or mould could build up from condensation. We recommend that you use an absorbent cloth (e.g. terry cloth or cotton).

Ensure that the tabletop, seat chests as well as cushions are well secured so that nothing can fall.

6.5 Windows



Depending on how the window has been constructed, it has one or more latches with locking knobs ①. To open these window catches, press the lock buttons ①. Various window fixings have been fitted in the vehicle.



Catch

Window with ratcheting stays

To open

- Turn all of the window latches ② by 90°.
- Press the window catch outwards until you hear it click. The window will automatically remain in this position. The angle of opening can be increased in predefined steps.

To close

- Lift the window slightly to unhook the stay.
- Close the window.
- Turn all of the window catches ② to the original position so that they clasp behind the latches and pull the pane into the seal.



Before closing the window, check that the curtains are not caught in the sealing.



Closed



Vent position



Apart from the open and closed positions, the window catches can also be locked in the middle slot of the latches to allow air in, this is the vent position.

High humidity may cause a light mist to form within the window panes. This will disappear by itself when the weather is drier.



Windows must be closed fully while driving. Never use de-icing spray or an ice scraper for the windows in the caravan.

6.6 Roof lights

Safety instructions



- Never open the roof lights if there is a strong wind / rain / hail, etc. or when the temperature outside is below -20° C!
- Never use force to open the roof lights if they are frozen or covered with snow, because you may break the hinges and the opening mechanism.
- Before opening, remove snow, ice or heavy dirt. Make a note of the required space needed before opening the roof light under a tree, in a garage, etc.
- Close and lock roof lights before driving. Open fly screen and blind (fully open position).
- Close blind only 3/4 of the way if the sun shines in strongly; danger of heat accumulation!
- Leave the blinds completely open if you do not plan on using the caravan for a prolonged period of time.
- The openings for the forced ventilation system must always be left open! Never close or cover forced ventilation systems!



Large roof light



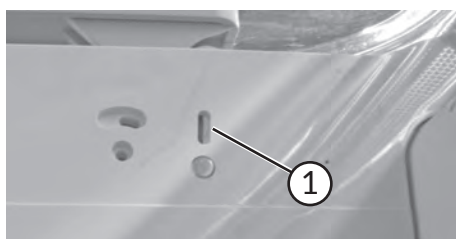
Before opening the roof light, ensure that the area above the opening of the light is free. The roof light can be opened to an angle of 60°.

To open

- Take hold of the handle and fold it out into the operating position. Turn the handle clockwise to open the roof light outer to the desired position. When you have reached the maximum opening angle you will feel the resistance.

To close

- Turn the handle anti-clockwise until the light is closed and you feel the resistance. The control pin ① is visible when the sky-light is shut. Finally turn the handle so it can be put back in its parked position. The roof light is only securely locked when the handle is in the parked position.



Control pin

7.1 Safety tips

The installation of electrical devices in the HOBBY caravan has been carried out in accordance with the valid regulations and standards.

Please note



- Do not remove the signs on electrical components giving safety instructions or danger warnings.
- The installation spaces around electrical equipment such as distribution fuse boards, electric power supply, etc., may not be used as additional storage spaces.
- Smoking and naked flame are forbidden when checking electrical equipment.
- Inexpert handling of the vehicle's electrical system may endanger your own life as well as that of others.
- The standard version of the caravan is not equipped for internal battery supply (self-sufficient operation). To connect to an external 230 V mains connection, use only a weather-proof, 3-wire extension cord with a CEE plug and connector.
- To operate 12V devices (e.g. cooler, etc.) safely while driving, please ensure that the car delivers sufficient voltage. In some cars, the vehicle's operating system protects the battery by switching off devices. For further information, please contact the manufacturer of your car.

7.2 Operation of the installed electrical systems

Advice and instructions

Important

- The caravan's electric system should preferably be inspected within a period of less than three years. If the caravan is used frequently, an electrical engineering specialist should inspect the electric system every year.
- Only specialists may make possible changes to the electrical system.
- If necessary, disconnect the battery and switch off the 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.

230V automatic circuit breaker with an earth leakage circuit breaker
The 230V automatic circuit breaker supplies and protects the 230V devices.

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

Fuses

- Only replace a blown fuse after the cause of the error has been fixed by an authorised specialist.
- The new fuse must have the same amperage as the old one.



3-key control panel

Remote control(s), bed/kitchen

- Briefly press the key to switch the:

Pos.-No.	Kitchen
①	Kitchen lights
②	Lighting in the seating area
③	Ceiling lights



Remote control for sleeping area

Remote control for sleeping area

- Briefly press the key to switch the
 - ④ lighting in the seating area
 - ⑤ ceiling lights on and off.



Remote control for walk-in wardrobe

Remote control for walk-in wardrobe

- Briefly press the key to switch the
 - ⑥ LED lights in the wardrobe on and off.

7.3 Electrical supply



CEE external socket

An electrical supply to the caravan can be obtained from the following connections:

- 230V mains connection 50 Hz
- via the tow vehicle if it is connected using the 13-pole plug (limited functions)

Supply via mains hook up

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



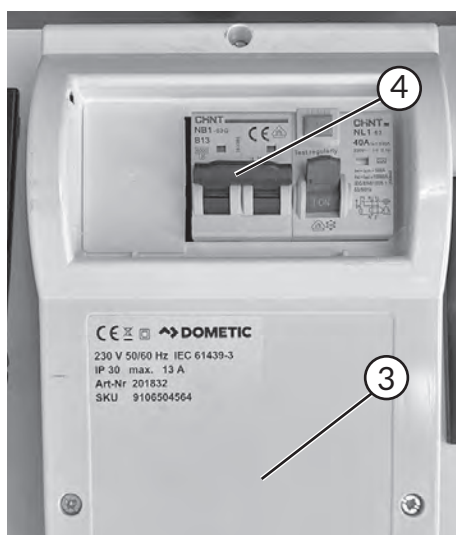
Connected 230V hook up

To connect to a mains hook up point

- Pull out the 13-pin plug that connects to the tow vehicle.
- Switch off the automatic circuit breaker ③ by pressing the rocker button down ④.
- Take hold of the bottom of the cover flap of the CEE external socket ① and pull it up (see Chapter 5.2 Cover Flaps).
- Completely unwind the mains cable.
- Open the cap of the CEE connector plug by pulling it up in a 90° angle.
- Insert the plug ② until it locks into place.
- Switch the automatic circuit breaker ③ back on.



Always first unhook the caravan from the car before setting up the 230V mains connection.



Automatic circuit breaker with FI ('fast interrupt') switch

To disconnect the electric connection

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



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

Protecting the 230V system

The 230V system is protected by a two-pole 13A automatic circuit breaker ③, which is located in the storage locker underneath the kitchen drawer.

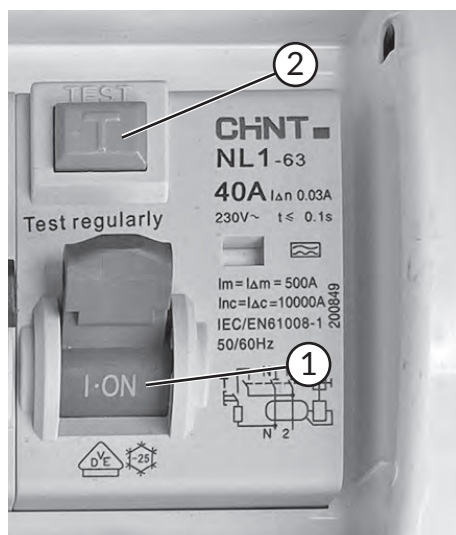
Rules for the mains connection

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



When you are using a cable drum, this **must** be completely unwound, when the caravan is in use (drawing mains power), as otherwise induction may cause the cable to heat up, which could lead to a fire (provided there is no protection against overheating).

- The 230 V mains connection in the caravan has been designed for a total power consumption of 2300 W. If additional devices requiring electricity are connected, such as a water heater, etc., ensure that this electric power value is not exceeded, taking other electrical equipment in use, such as the cooler, therme, etc., into account.



FI switch and test button

Residual current device

The standard version of your caravan is equipped with a residual current device that will interrupt the electric circuit in case of a possible residual current. Should there be a power failure, the fault current circuit breaker ('fast interrupt' = FI switch) will trip the entire 230V electric circuit.



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

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



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

After connecting up to an electrical supply and switching the power on in the caravan, the function of the residual current device must be checked. After voltage has been applied to the switch ① and it is on (set to I-ON) it must trip when you press the test button ②. The rocker switch ④ jumps down; after it has successfully been checked it must be switched back up to the "On" position.

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



When the FI switch has been switched off (even when testing) the customised settings in all mains-operated devices are lost and the default settings made by the manufacturer will apply again.

If the automatic circuit breaker has gone off (other than if the Test function has been used) you must wait a short while before switching it on again.

- If the automatic circuit breaker remains active, there was only an overload.
- If the automatic circuit breaker goes off abruptly again, there is either a short circuit or an earth fault.

7. Installation of electrical devices

Devices that cause it to trip when in use show that there is a fault; they must be checked and/or repaired by an electrical engineering specialist.



Switching it back on again and again will do no good. The automatic circuit breaker also goes off when the rocker switch is held firmly in place.



13-pole plug

Operation via the tow vehicle

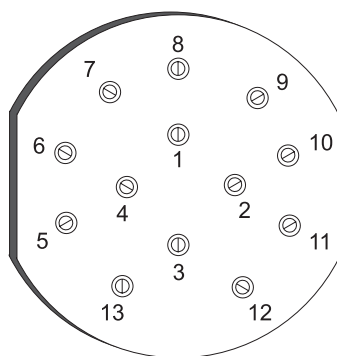
When driving, the battery of the tow vehicle takes over the supply of the 12 V supply if pin 9 of the 13-pin socket system on the tow vehicle is connected.

Switch off 12V operation (when the trailer is hooked to the car) on longer stopovers and breaks to conserve power in the car's battery.

When running on 12 volts, the cooler only functions if the car's engine is running. Contacts 10 and 11 of the 13-pole socket system.



Always switch off the electric connection between the tow vehicle and the caravan before hooking the caravan up to a low-voltage supply.



Connector pins on 13-pin plug in accordance with ISO 11446

Connector pin functions on the 13-pin plug

PIN	Colour of wire	Wire size	Electrical devices
1	yellow	1,5	Left indicator
2	blue	1,5	rear fog Light
3	white	2,5	Earthing for pins 1 to 8
4	green	1,5	Right indicator
5	brown	1,5	Rear tail light, marker light, licence plate illumination on the right
6	red	1,5	Brake light
7	black	1,5	Rear light, clearance light number plate light on the left
8	pink	1,5	Reversing light
9	orange	2,5	Continuous 12v supply
10	dark grey	2,5	Fridge supply activated by the tow vehicles ignition.
11	white/black	2,5	Earth for fridge
12	light grey	1,5	Not normally used (sometimes used as earth link).
13	white/red	2,5	Earth for pin 9 only

7.4 Electrical system

As soon as there is a mains connection, the electrical system will switch from battery operation to mains operation. The electrical supply unit uses a transformer to change the external mains voltage for the 12V electrical devices. All of the lamps in the caravan use 12V.

Assignment of fuses

The fuses for the individual internal electric circuits are located in the lighting control module. They are assigned as follows (from left to right):



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

Electric circuit ① (5A)

Electric circuit ② (15A)

Electric circuit ③ (15A)



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



Sockets inside the vehicle

Sockets inside the vehicle



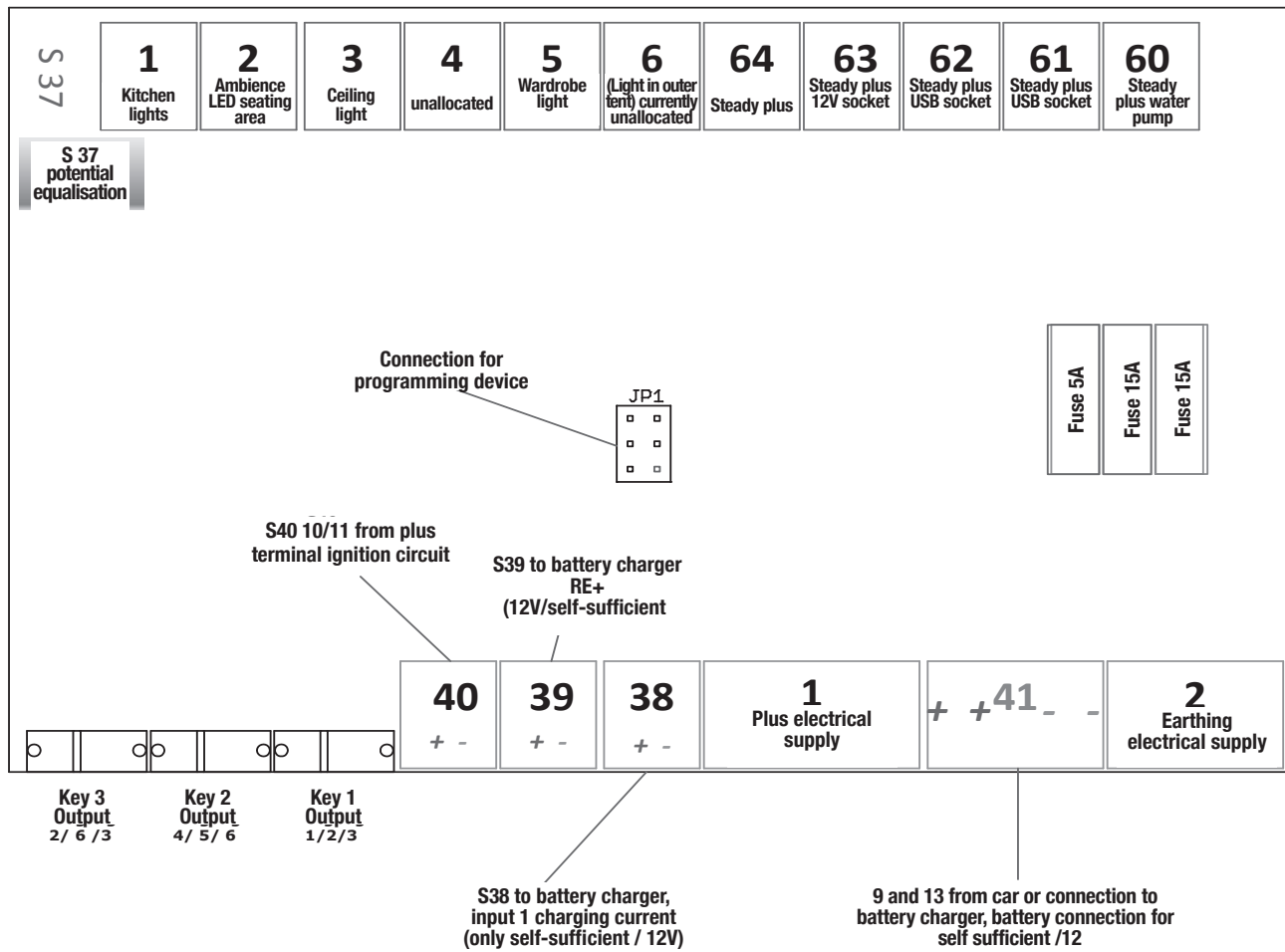
Sockets located inside the vehicle may not be used for devices that are operated outside the vehicle.

USB charging socket

The USB charging socket ① is suitable only for charging USB-compatible devices.

The 5V USB connection is supplied with power from the 12V electric system.

7.5 Diagram of the electrical distribution board



8.1 General information

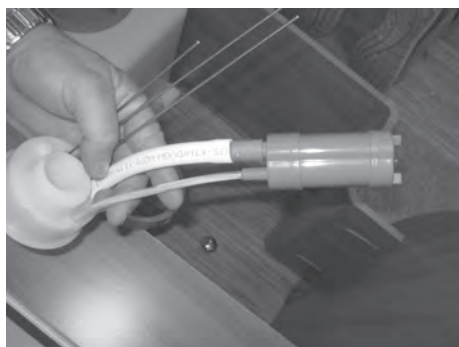


We recommend that you inspect any water you have left in the tank, this is very critical before using the water again.



- Water that is suitable for drinking should always be used when working with food. This also applies to washing your hands and cleaning the objects that have come into contact with food.
- To ensure that the quality of the water is faultless, the water should be taken directly from the public drinking water system. Please find out in advance about the local water quality.
- Under no circumstances should garden hoses, watering cans and similar materials that are unsuitable for drinking water be used to fill the mobile system.
- If the caravan will not be used for a long period of time, the entire water system must be emptied completely.
- After long periods of stagnation, the water system must be rinsed thoroughly before it is used again. If you find that it is contaminated, the material should be disinfected using cleaning agents that are permitted and suitable e.g. Milton fluid.

8.2 Water pump



Submersible pump

Function of the water pump

A submersible pump supplies fresh water to the kitchen. The pump functions on electricity:

- via a 12 volt automobile battery if the caravan is connected to the tow vehicle,
- via a transformer if the caravan is connected to the 230 volt main.

Rules for the submersible pump

- The pump is only suitable for water.
- The pump will operate at temperatures up to 60° C for a short time.
- Avoid dry runs.
- Protect the pump from freezing.
- Hard blows or hits as well as very dirty water can destroy the pump.



The submersible pump requires no maintenance.

The pump is switched on and off by a micro switch in each tap.



Fresh water canister

Fresh water canister

The fresh water canister is located in the lower kitchen cabinet and holds a volume of 13 litres.

Use the blue service cap to fill the canister with fresh water.



Check the blue service cap regularly; it may become loose if the fresh water canister is filled often.



Never introduce anti-freeze or other chemicals into the water system. **This can be poisonous!**



Empty the waste water canister only in the appropriate waste disposal place, never outdoors in the open countryside! As a rule disposal points can be found at motorway service stations; campsites and petrol stations.



Sink

Sink in the kitchen unit

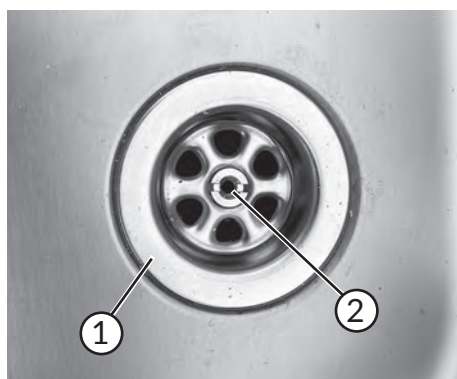
When necessary, the sink waste ① can be removed by unscrewing the screw ②.

When the waste ① is then replaced in the sink and fastened, please observe the maximum tightening torque of the screw.



The maximum tightening torque for the fixing screw for the waste fitting in the sink is 1 Nm. If the screw is tightened any further, this may cause leaking or damage to the waste fitting.

Never pour boiling water into the sink drains. This can lead to deformities and leakages in the waste water system. Always add cold water first.



Waste fitting

8.3 Water flushing toilet

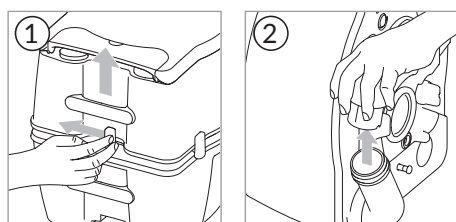


Portable Porta Potti* toilet

Your portable toilet is made up of two detachable sections: the flush-water tank and the waste-holding tank. to both tanks.

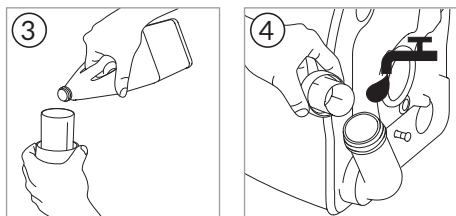


Before using the toilet, it is vital that you add toilet additives (where available) to both tanks.

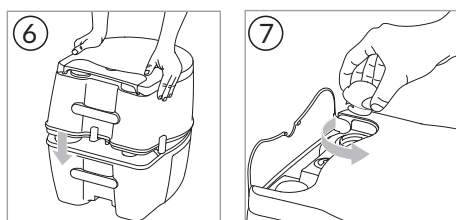
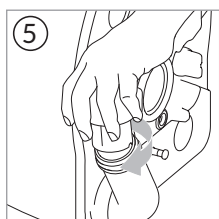


Preparing the toilet waste tank for use

- Separate tanks ①.
- Remove the cap from the pour out spout while it is pointing upwards ②.
- Add the correct dosage of wasteholding tank toilet additive ③.
- Add the correct dosage of water to ensure that the bottom of the waste-holding tank is covered ④.
- Replace the cap ⑤.

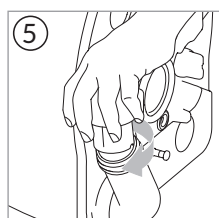
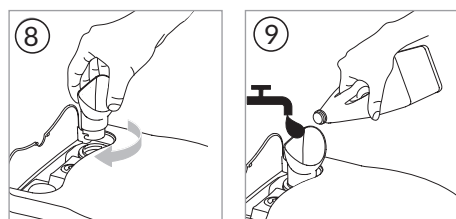


Never add toilet additives directly via the blade as this could damage the lip seal of the waste-holding tank. Only fill the waste-holding tank via the pour out spout.



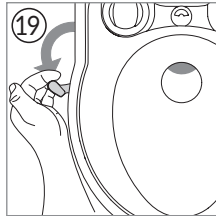
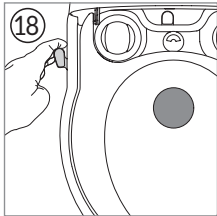
Filling the toilet flush tank

- Recombine tanks ⑥.
- Remove the water fill cap ⑦.
- Place the water fill adaptor ⑧.
- Add the correct dosage of flush-water tank toilet additive (where available) and fill the flush-water tank with clean water ⑨.
- Replace the cap ⑤.



Using the toilet

Schließen Sie die Abdeckung und öffnen und schließen Sie die Verschlussplatte, um aufgestaute Wärme oder Höhendruck abzulassen und um ein Spritzen zu verhindern.



Öffnen der Verschlussplatte

To vent any built-up heat or altitude pressure and prevent for splashing close the cover and once open and close the blade.

- The toilet can be used with the blade open or closed. To open the blade, pull the blade handle (18) / (19).



Make sure you always close the blade completely after use.



Flushing the toilet

You can achieve the most effective flush by operating the manual pump with three or four short flushes (20).



Do not use ordinary toilet paper, as this may cause clogging.

To ensure toilet paper is always on hand, your toilet includes space for one toilet roll.



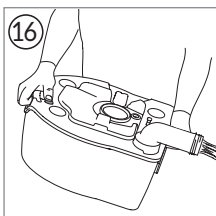
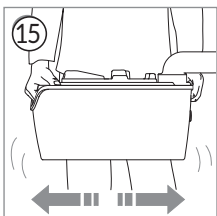
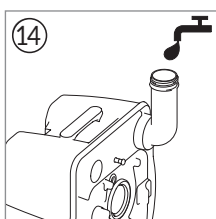
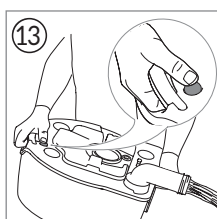
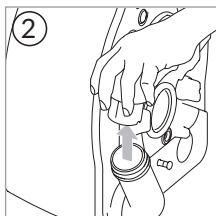
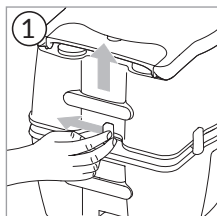
To prevent damage by water to your trailer or mobile home:

- the waste tank should be no more than 3/4 full when driving. Otherwise, it may leak through the ventilation system;
- there should be no water in the toilet bowl while driving;
- the flushing water tank should not be too full while driving. Thetford advises travelling with an empty flush-water tank, but at least not filled more than half-full.

The toilet can withstand a maximum load of 120kg (265 lbs). Make sure you do not overload the toilet.

Emptying the waste tank

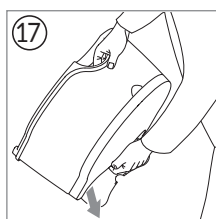
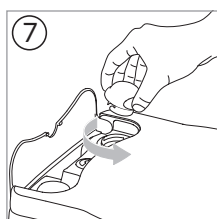
You need to empty the waste-holding tank when the level indicator turns red.



- Separate the tanks (1).
- Take the waste-holding tank to an authorised waste disposal point.
- Remove the cap from the pour out spout, while it is pointing upwards (2).
- Press and hold the vent button with your thumb while the pour out spout is pointing downwards to empty the waste-holding tank without splashing (13).
- Rinse the tank (14) / (15) / (16).
- Recombine the tanks (6).



Do not allow the waste-holding tank to become too full.



Emptying the flush-water tank

Only empty the flush-water tank completely if you expect not to use your toilet for a long period.

- Remove the water fill cap (7).
- Empty the flush-water tank through the water fill opening (17).
- Flush the toilet until no more water is being pumped out (20).



Emptying is only allowed at an authorised waste dump.

To vent the flush-water tank the water fill cap contains a small vent hole. Fresh water can come through when lifting or positioning the toilet under an angle.

9.1 General information

In this chapter, you will find information on the devices that have been built into the Hobby caravan. This information refers only to the operation of these devices.

To some extent, the devices described are special accessories.

For further information on the individual built-in devices, please refer to the separate operating instructions that have been included in the blue pack found in the vehicle.



Built-in devices may only be repaired by specialists.

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

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



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

9.2 Dometic cooler



Dometic cooler

In compressor mode the cooler is suitable for cooling and deep freezing foodstuffs. In thermoelectric mode the cooler is only suitable for cooling foodstuffs.

The device is designed for use with:

- a 12V on-board power socket (see voltage information on the name plate),
- a 230V AC mains supply

The appliance shall not be exposed to rain.



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



12V operation (thermoelectric mode)

While driving, 12V operation can only be used when the engine is running. During breaks or on longer stopovers, switch off 12V operation and, if required, select a different mode of operation.

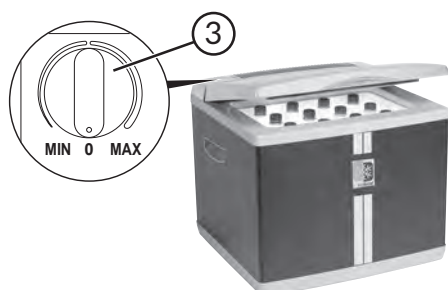
- Plug the 12V power cable ① into the 12V socket in the camper.

The cooler starts cooling the interior.

- To switch off the cooler:
 - Disconnect the plug.
 - Wind the cable around the two holders on the back of the device for storage.



Disconnect the cooler from the battery when the engine is not running, as otherwise the battery will run down.



230V operation (compressor mode)

- Connect the 230V connection cable ② to the 230V AC mains supply.
- Open the lid of the thermostat ③ by pressing down on it.



Press down on the lid again to close it.

- Turn the thermostat ③ clockwise to the required position.



The further you turn the thermostat towards "MAX", the lower the refrigerating temperature.

The cooler starts cooling the interior.

- To switch off the cooler:
 - Turn the thermostat ③ anti-clockwise to "0".
 - Disconnect the plug.
 - Wind the cable around the two holders on the back of the device for storage.

Accessories

Note the detailed operation instructions, installation instructions and circuit diagrams from the manufacturers when using accessories. These are located in your blue pack.

- Any changes to the status of the caravan as delivered by the manufacturer may alter driving performance and roadworthiness.
- Any accessories, add-ons, modifications or mounted parts that have not been approved by HOBBY may cause damage to the caravan and impair its roadworthiness. Even if a professional, general type approval or design approval has been provided for these parts, this does not ensure the orderly condition of the product.
- HOBBY cannot accept liability for any damages caused by parts or changes that have not been approved by HOBBY.

The following table includes a list of weights for accessories. If these parts are carried in or on the caravan and are not included in the standard specification, they must be taken into consideration when determining the full load.

Object	Weight [kg]	Object	Weight [kg]
Chassis/Security		Living room	
Drawbar cover in checker plate look	3.5	Organiser box, natural material, foldable, fits small storage compartments in sideboard, size S, 2 pc. set	NI
KNOTT ETS Plus stabilisation system	5.7	Organiser box, natural material, foldable, fits storage compartments in suspended shelving, size M, 2 pc. set	NI
Light alloy rims, black, polished	0.0	Organiser box, natural material, foldable, fits storage compartments in bench seat, size L, 2 pc. set kitchen	NI
Spare tyre instead of tyre repair kit (mounted underneath the chassis)	26.0	Organiser box, natural material, foldable, fits large storage compartments in sideboard, size XL	NI
Increased/reduced load		Walk-in wardrobe	
Increased load without technical changes	0.0	Portable THETFORD Porta Potti 565P toilet	19.9
Superstructure			
"BEACHY" DWT awning for side panel	NI		
Drawbar bicycle carrier 1	0.0		
Drawbar stowage box (aluminium transport box, weather and temperature resistant)	5.1		

11.1 Maintenance

Maintenance intervals

fixed maintenance intervals apply to the caravan and the devices installed in it.

Rules for maintenance intervals

- The 1st annual maintenance check should be carried out by an authorised HOBBY dealer no later than 12 months after the initial registration date.
- Have all further maintenance performed once annually at a HOBBY dealer.
- Have all maintenance on built-in devices performed in accordance with the corresponding maintenance intervals indicated in the operating instructions.

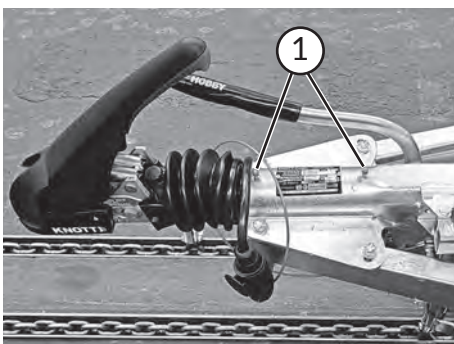


Hobby's voluntarily granted (5 year) warranty against leaks in the mobile home, as set out in the guarantee conditions, will only take effect if the (chargeable) inspections for leaks were carried out correctly. To this end, the mobile home must be taken to a Hobby dealer 12-18 months after receipt of the vehicle. After the initial inspection for leaks, this inspection must be repeated every 12 months during the warranty period.

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

Greasing and oiling

Regularly examine and grease the sliding parts and stationary parts of the chassis. If the caravan is used seldom, yearly maintenance is required.



Bearing surfaces on the casing of the overrun coupling

Rules for greasing and oiling

- Movable parts such as pins and hinged parts on the hand brake lever and deflexion lever of the ramp should be oiled lightly.
- Lightly grease the stationary parts on the case of the overrunning equipment ① after every 5,000 kilometres of driving.
- Check from time to time to ensure that the bearing surfaces of the brake rod are not jammed.
- Clean and oil all movable and stationary parts regularly.



For safety reasons, the spare parts for heating devices must conform with the manufacturer's instructions. They must be installed by the manufacturer or an authorised representative.

IMPORTANT: The friction pads of the KS 25 stabiliser hitch must never be lubricated with either oil or grease.



Rubber spring axles require no maintenance.

The axle(s) of the caravan is (are) fitted with compact wheel bearings. The cylinder hub, compact bearings and axle nuts form a closed unit. The compact bearings are free of maintenance due to their special grease.

You can find further guidelines in the operating instructions from the axle supplier.

11.2 Hitch head

Tow ball on base vehicle

Ensure that the tow ball meets the required dimensions and is undamaged, clean and free of grease. If using Dacromet-coated (dull-silver coating for corrosion protection) or lacquered tow balls, the coating must be completely removed before your initial journey using sandpaper (grain: 200 240) and then cleaned, e.g. using a nitro thinner or spirit, so that it is not deposited on the surface of the friction pads. The metal surface of the tow ball must be bright. A damaged or dirty tow ball causes increased wear and tear on the friction pads; a greased tow ball greatly reduces the stabilizing effect.



If the friction pads are new, optimal shock absorption is only reached after a certain period of operation.

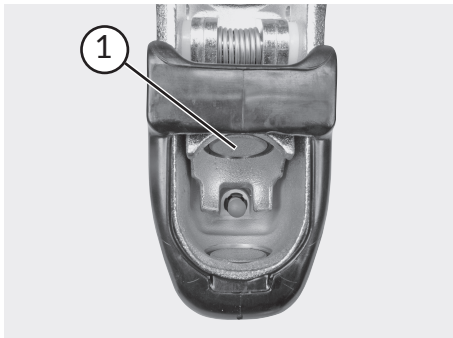
Should the friction pads be worn out or have come into contact with oil or grease, they must be replaced so that the shock absorbers are once again fully effective and hence the caravan is stable.



Stabiliser hitch

Stabiliser hitch

Keep the inside of the tow ball, around the friction pads, clean and grease-free. When the friction pads are dirty, the surface can be cleaned with 200-240 grain sandpaper. Then clean the surface with a cleaning solvent or spirit. All movable bearings and bolts are easy to grease. By regular upkeep and maintenance of your KS 25, you increase its overall life span, function and safety.



Friction pads

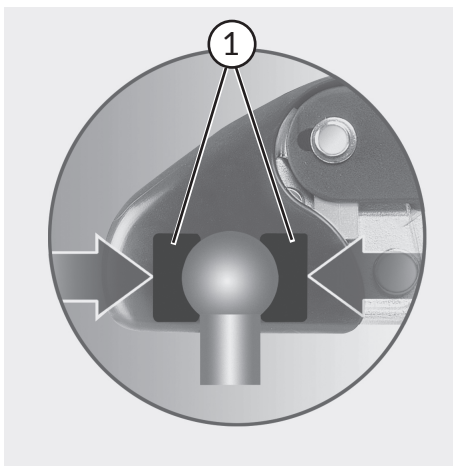


Diagram of friction pads

Changing the friction pads

It is easy to replace the friction pads ① if they are worn out or covered in oil or grease. KNOTT offers the appropriate replacement set for replacing the front and back friction pads.

Please note the detailed instructions for assembly in the manufacturer's spare part kit.



Use only original KNOTT friction pads.

These have been precisely tailored to meet the requirements of the KS 25 stabiliser hitch.

If other friction pads are used, either the stabilising effect will be negatively influenced or the ball neck could be damaged.

Noises

Noises may occur while towing your caravan; however, they have no influence on the operation and stabilising effect of the stabiliser hitch.

Possible causes of these noises can be:

1. a painted (dacromet coated) ball on the tow vehicle.
2. A galvanized or varnished tow ball on the tow vehicle.
3. A damaged, rusty or dirty tow ball on the tow vehicle.
4. Dirty or worn out friction pads ① in the hitch.
5. the towbar or brake rod in the linings of the overrunning equipment are running dry.

Hints

For 1., 2. 3. and 4.:

- please refer to the sections "Tow ball on towing vehicle" and "Hitch".

for 5:

- Use the lubricating nipple to grease the bushings. Remove the gangway bellows and grease the exposed tow bar.
- Clean the removable tow ball on the locking mechanism and grease it again (see separate operating instructions for the removable tow bar).

11.3 Brakes

Initial inspection

The brakes must first be inspected after you have driven 500 km. Inspections must be documented in the KNOTT service manual by the authorised specialist who carries out the inspection. A documented report is just as much a prerequisite for any possible guarantee claims as is the compliance with the regulations for maintenance and upkeep.



After exchanging the brake pads, drive the first 100 km carefully, because the full brake force has not yet been reached.

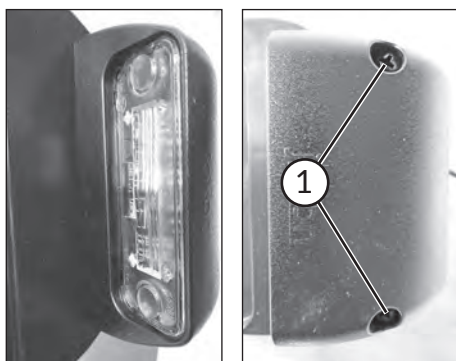
11.4 Changing bulbs in the rear lights



Disconnect the power supply before changing the lamps!

Lamps can be hot!

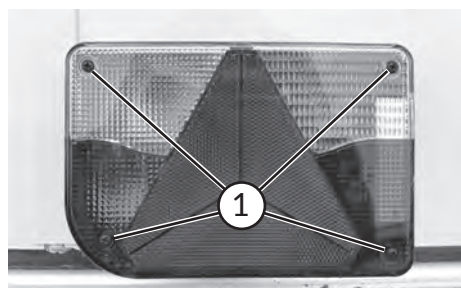
Ensure that no liquids (e.g. rainwater) flow into the cover.



Registration plate light

Changing the licence plate illumination

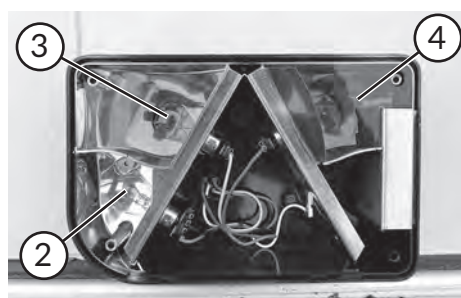
- To change the registration plate light, first unscrew these screws ①.
- Detach the cables and attach them to the new light.
- Firmly tighten the screws ① to fasten the light securely.



Rear light Beachy

Changing the rear lamps

- To change the light bulbs in the rear light, unscrew the four screws ① in the cover. Change the defect light bulb and securely fasten the screws to the cover.



Inside the rear light

- ② Rear light
- ③ Indicator
- ④ Fog tail light



Take care when changing the bulbs so as not to damage them.

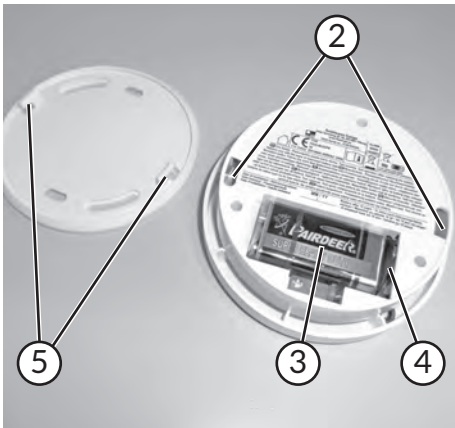
11.5 Changing the battery and maintenance of the smoke detector



Please observe the operating instructions of the device manufacturer.



Smoke detector closed



Smoke detector opened

Maintenance

The smoke detector system does not require any maintenance. From time to time, remove the dust from the cover of the detector and ensure that the air slots are not dirty or blocked up by insects or similar objects. If necessary, the detector should be wiped off with a dry cloth and then hoovered on the outside approx. twice a year.

- ① Test button
- ② Holes for the lock
- ③ Block battery, type 9VDC 6F22
- ④ Pins for battery contact
- ⑤ Locking pegs

Changing the battery

To ensure that the block battery continues to function correctly it must be changed regularly, but no later than when the warning signal beeps.

- Carefully turn the cover of the smoke detector anti-clockwise until it can be removed from its mount.
- Take out the used block battery and unpin it from the pins.
- Connect the new block battery to the pins, ensuring that the pins click into place on the poles of the block battery.
- Place the battery in the smoke detector's battery container.
- Place the cover of the smoke detector so that the holes for the lock are over the locking pegs. Carefully turn the cover clockwise until it locks into the mount.

Test

- Press the test button for at least 4 seconds until the alarm goes off. The alarm goes off when the electronic system is working. It will stop as soon as you let go of the test button.



Test the smoke detector every time the battery has been changed.



Batteries should never be thrown in the container for normal household waste. Always return used batteries to a shop that sells batteries or take them to a designated collection point.

11.6 Ventilation

Sufficient ventilation and de-aeration of the vehicle interior is essential to maintaining a comfortable climate. You will notice an increased amount of condensation inside the caravan on cooler days or after it has not been used for a prolonged period of time. This condensation may be particularly heavy on single-glazed windows. Damp spots are sometimes even noticeable on furniture surfaces, the inner side of outside walls, and often also in cupboards. Furthermore, such dampness can cause mould to build up, which then rapidly spreads to other surfaces. This situation not only impairs your sense of well-being, but can also lead to damaged components. This condensation is generally caused by the air in the room. One of the properties of air is that it can absorb water. The hotter the air is, the more water it can absorb (relative humidity). If air that is totally saturated with water vapour cools down and reaches its saturation point, it gives off part of the water in the form of condensation. This is also known as a "cold bridge". However, condensation occurs primarily when there is little airflow due to structural conditions or insufficient airing.

Condensation forms most readily

- in tight spaces,
- from the breath and perspiration of the passengers,
- by having damp clothing, inside the caravan,

While sleeping, a person loses about one litre of water per night through the pores of their skin and breathing. The additional water vapour in the air must be discharged from the recreational vehicle by airing it sufficiently at regular intervals. An air change of 0.5 to 1 ACH (Air change per hour) is required if only for reasons of hygiene to ensure that the level of toxic substances and odorous pollutants in the air in the room remains low.



Ensure sufficient air circulation to prevent damage from the collection of condensation!

A high level of humidity can cause the edges of the mirrors to corrode. After airing, dry any remaining damp spots with a cloth that has not been sprayed with or dipped in cleaning agents. Air the interior briefly, but intensively. Therefore, you should open the skylights, windows and doors as far as possible for a short time, thus creating a draft. After approx. 10 to 15 minutes the stale, moist air in the room will be replaced by fresh, dry air which, after heating up, can again absorb additional water vapour.

11.7 Upkeep

The following applies for their care:

- clean plastic parts using hot water up to 60°C and mild washing-up liquid.



Only wash the caravan at specially designed wash sites.

Use cleaning solvents as sparingly as possible. Aggressive cleaners such as rim cleaner pollute our environment.



Use only dishwashing liquid or commercial cleaning agents, always taking care to follow the instructions for use, and test the cleaning agent to make sure it is suitable.

Cleaning products not recommended for use

- abrasive cleaning agents (scratch the surface)
- cleaning agents that contain acetone (immediately damage the plastic)
- dry cleaning products
- diluents
- alcohols
- aggressive or solvent-based cleaners
- cleaners from the chemical group such as ketone, ester and aromatic solvents
- aromatic hydrocarbons (e.g. all automotive fuels)

Direct contact with plastics such as PVC, soft PVC and similar products (e.g. stickers) must be avoided at all cost.

It is not possible to avoid transmitting plasticizers when solvent-based contents come into contact with the aforementioned plastics and this causes the parts to become brittle.

Cleaning the exterior

The trailer should be thoroughly cleaned at least once a year or if it is soiled. In coastal areas (less than 1500 m away from salt water), the outside of the trailer should be cleaned twice a year.

Rules for cleaning the exterior

- Rinse the vehicle with a light stream of water.
- Wash the vehicle with a soft sponge and commercial cleaning agents. Rinse the sponge often in the process.
- Afterwards, rinse off thoroughly with plenty of water.
- Dry the vehicle with a chamois leather or soft dry cloth.
- Allow the vehicle to stand out in the open after washing to let it dry.



Thoroughly dry the light sockets, because water collects there easily.

Cleaning with a high-pressure cleaner



Labels and exterior decorations should not be sprayed directly with a high-pressure cleaner, because they may come off.

Note the instructions for the high-pressure cleaner before washing the caravan with it.

Keep a minimum distance of 700 mm between the caravan and the high-pressure nozzle.

Note that the water jet comes out of the cleaning nozzle with a great deal of pressure. Incorrect use of the high-pressure cleaner can damage the caravan. The temperature of the water must not exceed 60° C.

Keep the water jet constantly moving during the entire washing process.

The spray from the high-pressure cleaner must never be pointed directly at the cracks of the doors or windows, acrylic windows, electrical add-on components, plug connectors, seals, ventilation grills, locker doors, waste gas flues or skylights. This may damage the caravan or water could get inside the caravan.

Rules for waxing the surfaces

- Treat the paint surfaces periodically with wax. Note the guidelines for use from the wax manufacturer.

Rules for polishing surfaces

- In exceptional cases, treat damaged paint surfaces with polish. We recommend paste polishes free of solvents.



Do not polish too often since polishing removes the top layer of paint. Frequent polishing causes more damage than it remedies.

Rules for treating tar and resin stains

- Remove residues from tar and resin as well as other organic stains with petroleum ether or spirit.



Do not use aggressive solvents such as products containing esters or ketone.

Rules for damage repair

- Repair all damages without undue delay to prevent further damage caused by corrosion. Consult your HOBBY dealer.

Chassis

The chassis of the caravan has been specially coated. If the protective coating is damaged, repair it immediately. Coated areas should not be treated with spray oil.

Chassis

Should salt adhere to the hot-dip galvanised chassis, it will damage it and may cause white rust. However, white rust is not a defect, but merely an optical impairment. After driving in winter or through salty water, the hot-dip galvanised surfaces should be rinsed with clear water.

Clean the corner steadies with water and a damp sponge, then dry and grease them, especially the spindle.

Skylights, windows, mirrors and doors

Window surfaces require particularly careful treatment as they scratch very easily, never clean using a brush.

Rules for upkeep

- Rub the rubber seals lightly with talcum powder.
- Only clean acrylic glass window panes with a clean, moist sponge and a soft towel. Dry cleaning can scratch the panes.



Use plain water to clean the windows. Wipe the mirror dry with a soft cloth. Never use cleaning agents or abrasive and aggressive detergents that contain softeners or solvents! Wipe windows with a damp microfibre or leather cloth, wiping in circles.

Only wipe the mirror carefully with a slightly damp microfibre cloth if there are stubborn stains on it. Never use razor blades to clean window panes or mirrors!

Talcum is available in auto specialty stores.

Roof



To prevent the paint on the roof of the caravan from corroding, the roof plate should be cleaned at least once a year.

Cleaning the interior



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



Do not use razor blades to clean the mirror or window panes! Wipe mirrors and windows with a damp microfibre cloth or leather cloth, wiping in circles. Do not use any cleaning solutions.

Rules for cleaning seat covers, upholstery covers and curtains

- Clean seat covers with a soft brush or vacuum cleaner.
- Have mattresses, cushions, bedspreads and curtains dry-cleaned when they are badly soiled. Do not wash them yourself! Never remove the covers from mattresses or cushions.
- Clean with the foam with a gentle detergent if required.

Cleaning instructions for materials that contain Teflon



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

We recommend the following methods for cleaning

Method A:

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

This method is particularly suitable for removing:

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

Method B:

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

This method is particularly suitable for removing:

- wax, candles
- pencil

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

Rules for cleaning PVC surfaces



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

- Clean the surface with a special solvent for PVC surfaces. Do not place carpets on wet PVC surfaces. Carpets and PVC surfaces could stick together.
- Never use chemical cleaners or steel wool, because they will damage the PVC surface.

Rules for furniture surfaces

- Clean wooden furniture finishes with a moist cloth or sponge.
- Rub dry with a soft, dust-free cloth.
- Use mild furniture polish.

The following applies for the portable toilet*

Thetford recommends cleaning your toilet regularly to prevent limescale and ensure optimal hygiene.

- Clean the inside of the bowl with a soft brush and a special cleaning product.
- Clean the complete toilet with special cleaning products.



Never use household cleaners to clean your portable toilet. These may cause permanent damage to the seals and other toilet components. Also maintain your toilet regularly to prolong the lifespan of your toilet.

- Clean the inside of the waste-holding tank 2 to 3 times a year to remove stubborn limescale.
- Treat the seals with special lubricant to keep the seals soft and pliable.



Never use Vaseline or vegetable oil to lubricate the seals. This may cause leakage to your waste-holding tank.

The valve blade seal is a part of the toilet that is subject to wear. Depending on the extent and manner of servicing, after a certain period the seal will lose quality and must be replaced.

The following applies for the sink

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



Fresh water canister

The following applies for the fresh water canister

- Rinse it regularly with clean, clear water.

Cleaning the fresh water canister

- After emptying the water from the fresh water canister, use a cloth to remove the remaining liquid that has collected in the groove.



Remove all spray cans with cleaners and polishes from the vehicle after finishing the upkeep! **Otherwise, there is a danger of explosion at temperatures over 50° C!**

11.8 Winterizing the Caravan



For many people, the camping season ends when the temperature starts to fall. Your caravan must be properly prepared for its winter lay up.

The following general rules apply

- Only leave your caravan in an enclosed space if it is dry and well-aired. Otherwise, it is better to leave your caravan in the open.
- Cover the stabiliser hitch. Grease the brake linkage and corner steadies.
- Jack up the caravan if possible. Extend the corner steadies to relieve the burden on wheels and axles to some extent. Use axle stands to support the chassis.
- Leave space between tarpaulins and the caravan so as not to hamper ventilation.

The following applies for the external structure

- Wash the caravan thoroughly (see 11.7).
- Check the vehicle for damages to the paint and other damages. If necessary, repair these damages and carry out any other necessary repairs.
- The exterior should be treated with wax or a special polish for paint lacquer.
- Use a protective agent to protect the metal parts of the chassis against rust.
- Check the chassis for damage and, if necessary, repair it. In case of severe damages, contact your dealer.

The following applies for tanks and containers

- Clean, disinfect, descale and completely empty all water pipes and taps. Leave taps open.
- Clean the fresh water tank and empty it by pulling out the overflow pipe (see Chapter 8.2 Fresh water).
- Clean and empty the waste water canister.

The following applies for the interior fittings

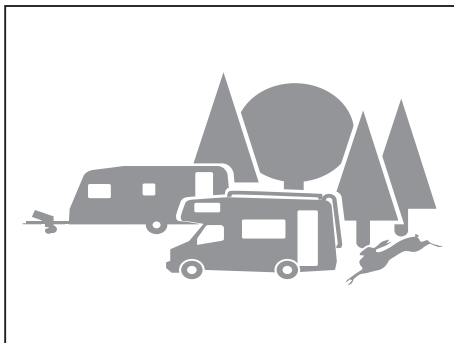
- Clean the interior of your caravan. Hoover cushions and mattresses. If possible, store them outside the vehicle in a dry place. Alternatively, place them in such a way inside the caravan that they do not come into contact with condensation.
- Use soapy water to clean linoleum and smooth surfaces.
- Leave vents for forced ventilation open. If the caravan is kept in an enclosed space,, you can leave the skylight open.
- Air the caravan thoroughly every four to six weeks when the weather is dry.
- Set up a dehumidifier (such as salt) inside the caravan and dry the granulate or change it regularly.
- If necessary, heat the caravan to prevent the build-up of mould from condensation.
- Switch off the 12 V main switch.

11.9 Winter useage



The BEACHY model has not been equipped by the manufacturer for camping in winter.

12.1 The environment and mobile travel



Environmentally sound use

Naturally, motor home, caravan and van owners and users are especially responsible for the environment. Therefore, you should always use your caravan in an environmentally sound manner.

Rules for environmentally sound use

- If you plan on spending a long period of time in cities and communities, find out in advance about special campsites for cars with caravans and use them.
- Do not interfere with the quietude and cleanliness of nature.
- Dispose of waste water, faeces and rubbish properly.
- Act in an exemplary manner so that motor home, van and caravan users are not generally regarded as environmental polluters.



Rules for waste water disposal:

- Collect waste water on board only in built-in waste water tanks or, in an emergency, in suitable containers!
- Never dispose of waste water in greenery or in drains! Street surface water drains often do not lead to waste water treatment plants.
- Empty the waste water tank as often as possible, even if it is not yet full (for hygienic reasons). If possible, rinse the waste water tank out with fresh water each time after emptying.



Only empty the toilet cassette at designated sites, never out in the open! Generally, waste disposal stations can be found at rest facilities, camping grounds or petrol stations.



Rules for the disposal of faeces

- Only add approved cleaners to the faeces tank.



The use of other cleaners can be avoided by the installation of an active charcoal filter system.

Apply cleaning fluid very sparingly. Excessive application does not guarantee the prevention of odour build-up!

Disposal

- Never allow the toilet cassette to become too full. Empty the tank immediately, at the latest when the fill indicator lights up.
- Never dispose of waste water in drains! Street surface water drains often do not lead to waste water treatment plants.



Only empty the faeces tank in the designated areas, not out in the open!



Rules for rubbish disposal

- Separate rubbish and bring recycleable materials to the appropriate collection sites.
- Empty disposal bins as often as possible in the bins or containers provided for this purpose. This prevents unpleasant odours and rubbish build-up.

Rules for rest areas

- Always clean up picnic spots before you leave, even if the rubbish has been left by someone else.
- Never dispose of your household rubbish in the containers provided in rest areas.
- Do not let the motor of your tow vehicle run unnecessarily while standing still. A cold motor causes a lot of contamination while idling. The quickest way to reach operating temperature is while driving.



Protecting the environment is not only in the interest of nature, but also in the interest of all motor home, van and caravan users!

13.1 Chassis data

Model	Typ	BEACHY	g.v.w.r. [kg]	Permitted axle load	Axle(s)	Wheel brake	Leading equipment	Stabiliser Hitch	Towbar
BEACHY 360	30EG	•	900	900	VGB 13 M	20-2425/1	KFL 12 B	KS25 (210197.001)	One Piece
BEACHY 420	30EG	•	950	950	VGB 13 M	20-2425/1	KFL 12 B	KS25 (210197.001)	One Piece
BEACHY 450	30EG	•	1000	1000	VGB 13 M	20-2425/1	KFL 12 B	KS25 (210197.001)	One Piece

13.2 Possibilities for increasing loads

Basic version

Model	Variante	BEACHY	g.v.w.r. [kg]	Axle load [kg]	Axle	Tyres	Brakes	Leading equipment	Forked A frame
BEACHY 360	W00G	•	900	900	VGB 13 M	195/70 R 14 XL LI 96	20-2425/1	KFL 12 B	One-Piece
BEACHY 420	Y00G	•	950	950	VGB 13 M	195/70 R 14 XL LI 96	20-2425/1	KFL 12 B	One-Piece
BEACHY 450	Z00G	•	1000	1000	VGB 13 M	195/70 R 14 XL LI 96	20-2425/1	KFL 12 B	One-Piece

13.3 Weights of the vehicle and equipment

Model	Unladen weight [kg]	Basic equipment [kg]	Mass in ready to drive condition [kg]	Technically permissible total mass. [kg]	Payload [kg]
BEACHY 360	744	13	757	900	143
BEACHY 420	786	13	799	950	151
BEACHY 450	809	13	822	1000	178

13.4 Tyres and Rims

Standard version

Metal wheel rims for the standard version

Light alloy rims for the standard version

Model	Variante	BEACHY	g.v.w.r. [kg]	Axle load [kg]	Metal wheel rim	Tyre size	Air pressure (bar)	Light alloy rim, size	Light alloy rim, marking	Light alloy rim, colour	Tyre size	Air pressure (bar)
BEACHY 360	W00G	•	900	900	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5
BEACHY 420	Y00G	•	950	950	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5
BEACHY 450	Z00G	•	1000	1000	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5

Metal wheel rim: tightening torque 10 Nm

Light alloy rim: tightening torque 120 Nm

Tyre bolts: retainer for all 13" + 14" metal wheel rims and all light alloy rims (incl. 15"): cone washer
 retainer for all 15" metal wheel rims: SPHERICAL WHEEL BOLT

Size	Rims Wheel mounting	Model	Tyre size	Wheel arch	Floor length	Total width	Track	Dis- tance towbar	Length of caravan	Length	Total length
5½ J x 14	5/112, ET 30	Steel	684 x 224	195/70 R 14 XL	3229	2165	1950	3173	3660	3715	5084
5½ J x 14	5/112, ET 30	Steel	684 x 224	195/70 R 14 XL	3829	2165	1950	3426	4260	4315	5684
5½ J x 14	5/112, ET 30	Steel	684 x 224	195/70 R 14 XL	4129	2165	1950	3560	4560	4615	5984

Maximum increased load

g.v.w.r. [kg]	Axle load [kg]	Axle New !	Additional rear crossbar	Wheels New !	Brakes New !	Leading equipment	Forked A frame New !	Weight
1200	1200	no	no	no	no	no	no	0,0
1200	1200	no	no	no	no	no	no	0,0
1200	1200	no	no	no	no	no	no	0,0

Max. increase
(for increased load)

Metal wheel rims for
increased load

Light alloy rims for
increased load

g.v.w.r. [kg]	Axle load [kg]	Metal wheel rim	Tyre size	Air pres- sure (bar)	Light alloy rim, size	Light alloy rim, marking	Light alloy rim, colour	Tyre size	Air pres- sure (bar)
1200	1200	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5
1200	1200	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5
1200	1200	5½ x 14	195/70 R 14 XL LI 96	3,2	6 x 14	TR9-6014	black	195/70 R 14 C LI 101	4,5

If the special accessories 'spare tyre' and 'light alloy rims' are combined,
the standard wheel with a metal wheel rim will be included as a spare tyre.

Light alloy rims always in connection with brand tires.

13.5 Tyre pressure values

As a rule of thumb, it may be assumed that a filled tyre suffers a loss of pressure of 0.1 bar every two months. Check the pressure regularly to avoid damage to tyres or a puncture.

Tyre size	Air pressure in bar
195/70 R 14 XL or reinforced	3,2
195/70 R 14 C	4,5

13.6 Measurements of Awning Perimeter

Model	Perimeter measurements [mm]
360 BEACHY	8360
420 BEACHY	9180
450 BEACHY	9290



The measurement given depends on the optional extras, load and tyre size, and is to be regarded as a guiding value only. To determine the exact perimeter measurement of your awning, we recommend that you measure the caravan.

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