



MANUAL

Version 12/2018

OPTIMA ONTOUR EDITION | OPTIMA DE LUXE | OPTIMA PREMIUM | SIESTA DE LUXE

Hobby
BUILT FOR LIFE



Dear Camper,

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



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

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



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

Your

HOBBY – Wohnwagenwerk

Ing. Harald Striewski GmbH

Chapter 1: Introduction

1.1	General information.....	4
1.2	Key to using these operating instructions.....	5

Chapter 2: Safety

2.1	Intended use	7
2.2	General information.....	7
2.3	Fire protection.....	8
2.4	Equipment.....	9
2.4.1	Emergency equipment	9
2.4.2	Vehicle tool kit.....	10
2.5	Before driving.....	11
2.5.1	What to observe before your first journey.....	11
2.5.2	Before each journey	12
2.6	While driving.....	14
2.7	After driving.....	17

Chapter 3: Chassis

3.1	General information.....	18
3.2	Vehicle identification number (VIN)	18
3.3	Loading	19
3.3.1	General information.....	19
3.3.2	The meaning of weights for the motorhome	20
3.4	Tow bar	22
3.5	Aftermarket Modifications.....	23
3.6	Automatic transmission	24

Chapter 4: Wheels, tyres

4.1	Wheels	26
4.2	Tyres.....	26

4.3	Tyre pressure.....	27
4.4	Tyre tread depth and age of tyres	28
4.5	Wheel rims	29
4.6	Changing a tyre.....	30
4.7	Fast tyre repair kit	31

Chapter 5: Exterior Structure

5.1	Ventilation.....	32
5.2	Opening and closing doors and lockers	34
5.3	Entrance step.....	43
5.4	Levelling supports.....	44
5.5	Roof.....	45
5.6	Bicycle carrier	45
5.7	Bicycle carrier Sawiko.....	47
5.8	Sun awning	48

Chapter 6: Interior Structure

6.1	Opening doors, lockers and drawers.....	50
6.2	Television holder	54
6.3	Worktop extension	55
6.4	Tables.....	56
6.5	Seating arrangements and sleeping areas.....	58
6.6	Rearranging the cushions	64
6.7	Washroom	68
6.8	Windows	69
6.9	Dimming system for driver's cab	75
6.10	Thermal curtain for driver's cab	76
6.11	Skylight	77
6.12	Seats in the driver's cab	79

6.13	Construction of the seats.....	80
6.14	Seatbelts in the motor home.....	82
6.15	Overview of the seating arrangements	83

Chapter 7: Electrical Installations

7.1	Safety instructions	86
7.2	Operation of the installed electrical systems	86
7.3	Controlpanel.....	88
7.3.1	HobbyConnect.....	116
7.4	Electric power supply.....	134
7.5	Electrical system	144
7.6	TV Connections.....	147
7.7	Individual lights	149
7.8	Navigation system.....	150
7.9	Subsequently installed devices.....	151

Chapter 8: Water

8.1	General information.....	152
8.2	Water supply	152
8.3	Toilet.....	158

Chapter 9: Gas

9.1	General safety rules when using LPG fittings.....	162
9.2	Gas supply.....	164
9.3	Gas point, external	173

Chapter 10: Built-in devices

10.1	General information.....	174
10.2	Heating.....	174
10.2.1	Truma Combi Heating System C6 (E)	174

10.2.2	Hot-water heating system.....	188
10.2.3	Webasto auxiliary heating.....	194
10.3	Refrigerator.....	196
10.4	Gas cooker	200
10.5	Extractor fan	202
10.6	Oven	203
10.7	Roof mounted Air Conditioning	205
10.8	Satellite System.....	206

Chapter 11: Accessories..... 208

Chapter 12: Maintenance and Care

12.1	Maintenance	212
12.2	Brakes	213
12.3	Changing bulbs in the rear lights	213
12.4	Airing	216
12.5	Care.....	217
12.6	Winterising your Motorhome.	222
12.7	Winter Usage.....	224

Chapter 13: Sanitation and Environmental Protection

13.1	The environment and traveling	226
13.2	Returning the vehicle.....	229

Chapter 14: Technical Data

14.1	Chassis data.....	230
14.2	Increase in Load capacity.....	234
14.3	Vehicle and equipment weights.....	237
14.4	Tires and rims	239
14.5	Tyre pressures	241

Index	242
-------------	-----

Chapter 1: Introduction

General information

Our motor homes are continuously being updated and for this reason we must reserve the right to make changes to the equipment, shape and technology.

Certain kinds of accessories are also described in this user manual that are not part of the standard scope of delivery. For this reason, no claims may be asserted against HOBBY based on the contents of this user manual.

Those accessories that are available at the time of going to print are described here. They have been applied on a par for all floor plans. Please note that it was not possible to describe all of the individual variations here.

If you have any special questions concerning accessories or the technology of the vehicle, your dealer will be happy to answer them.

Your HOBBY motor home has been built in accordance with the latest technology and approved safety regulations. Despite all precautionary measures, however, it is possible that pas-

sengers may be hurt or the motor home damaged if the safety instructions in this user manual and the warning stickers placed throughout the motor home are not observed.



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.

- Please use the motor home only when it is technically in top condition.
- Any defects that affect the safety of passengers or the motor home should be remedied immediately by trained personnel.
- The brake system and the gas system may only be inspected and repaired by an authorised specialist.
- Specified inspection and MOT deadlines must be met.

Before making your first journey

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

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



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



Annual leak checks are not free of charge. If a consistency test has not been carried out, you will forfeit any claims for a 5-year guarantee on consistency.

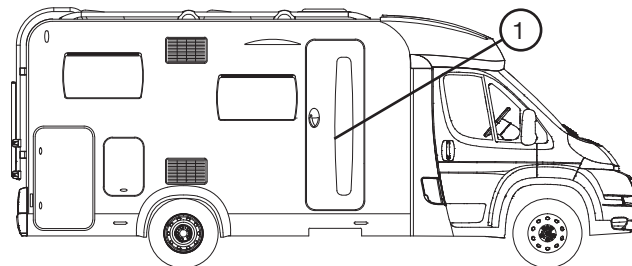
1.2 Key to using these operating instructions

This manual explains the motor home in the following manner:

Texts and illustrations

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

Details in illustrations (here: Habitation door) have been given item numbers .



Indicating details with the help of position numbers

Lists

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

Operating instructions

Operating instructions are also given in the form of key words beginning with the symbol “•“.

Notes



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

Warnings



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

Environmental Tips



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

Optional Extras

You have selected a motorhome 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 motorhomes 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.

Chapter 2: Safety

2.1 Intended use

This motorhome 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 motorhome has been designed may spend the night in the vehicle. When the motorhome is on the road, it may only be used in accordance with road traffic regulations and national vehicle safety standards.

This motorhome may not be used for the commercial transport of people/animals and/or goods. On public roads, the motorhome may only be used for carrying personal equipment. Transporting unsecured loads and/or packages is forbidden.

Each person travelling in the motorhome must sit on a seat that is equipped with a seatbelt and wear the seatbelt whenever the vehicle is moving. The number of people travelling in the mobile home may not exceed the number of seats equipped with a seatbelt.

Please ensure that the technically permissible maximum weight of the motorhome and the permitted axle load(s) per axle are not exceeded.

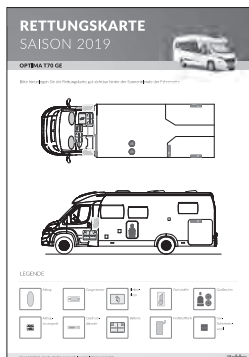
No use of the motorhome other than that described here is permitted; any other use is regarded as contrary to the intended use.

2.2 General information

- The motorhome may only be driven on public roads by someone with a valid driving licence category for such vehicles.
- Operating and user instructions for built-in equipment (refrigerator, heating, cooker, etc.) as well as for the basic vehicle must be observed at all times.
- If accessories or optional extras have been fitted, this may change the measurements, weight and road performance of the motorhome. 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 motorhome. Information on tyre and rim sizes can be found in the user manual or in **Chapter 14.4 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.



Example of a safety information sheet for the Optima V65 GE

Safety information sheets

The safety sheet for the motorhome can be found the drivers side sun visor. Should there be an accident, the emergency services can obtain all of the important information for this specific model from the safety sheet.



Treat the safety sheet with care; do not make it illegible and always store it in the designated place in the sun visor.

2.3 Fire protection

Precautions against fire

- Never leave children and vulnerable individuals alone in the vehicle.
- Keep inflammable materials away from all heating and cooking devices.
- Any changes to the electric system, gas system or built-in devices may only be carried out by an authorised person.
- Keep an ABC dry powder fire extinguisher by the entrance door.
- Ensure that everyone is familiar with the operating instructions on the fire extinguisher.
- Store a fire blanket near the cooker.
- Do not block any escape routes.
- Familiarise yourself with all safety measures for the vehicle and camp site.

Fighting fire

- Immediately evacuate all passengers.
- Close the main stop valve on the gas bottle and the individual gas taps for any gas appliances installed.
- Gas bottles that cannot be removed should be cooled with water.
- Turn off the electric supply.

- Sound the alarm and call the fire department.
- Only fight the fire yourself if you can do so without risk.



The initial use of dry powder fire extinguishers is only recommended if it is likely that turning off the valve on the gas bottle stop the leak, or if the bottle can be removed quickly.

2.4 Equipment

2.4.1 Emergency equipment

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

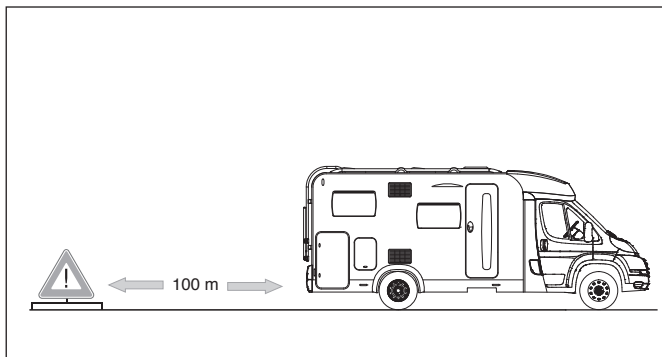
First-aid kit

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

High visibility jacket*

Please refer to the 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.

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



Minimum distance between warning triangle and motorhome

Warning triangle

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

In an emergency

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



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

Motorhomes with a technically permissible maximum weight of more than 3.5 tons must also carry a flashing warning light; with a technically permissible maximum weight of more than 4 tons they must also carry at least two (2) chocks (not included in the standard equipment.).



Tool box

2.4.2 Vehicle tool kit

Each vehicle comes with individual basic equipment including a vehicle tool kit and accessories. The toolbox is included separately in the vehicle. Upon delivery, it is located in the external storage locker or under the bed.

2.5 Before driving

2.5.1 What to observe before your first journey

Vehicle registration (in Germany)

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

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 vehicle..
- if applicable: direct debit mandate for taxes

General inspection (in Germany)

In common with passenger cars new motorhomes with a permissible total weight up to 3.5 tonnes do not have to undergo a MOT(German equivalent) for the first three years after initial registration. After this they must undergo a MOT(German equivalent) every two years. Motorhomes weighing between 3.5 and

7.5 tonnes must undergo a MOT(German equivalent) every two years during the first six years following initial registration. After this a MOT(German equivalent) must be carried out every year.

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



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

Please inform yourself abroad about any national regulations that may apply with regard to registration and general inspection of your motorhome.

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



- Use a torque wrench to check the wheel nuts after driving the first 50 miles with your motorhome.
- Switch off the gas-operated built-in appliances before refuelling the vehicle.

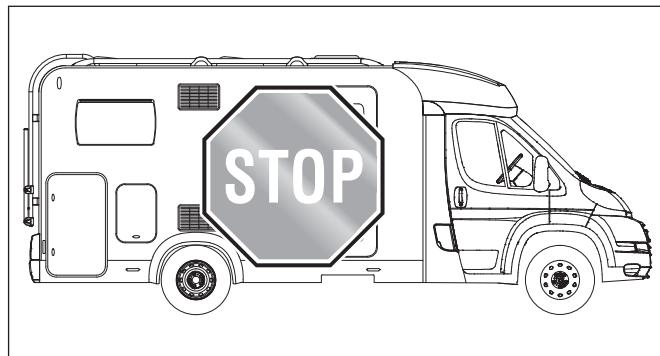
2.5.2 Before each journey

Road safety

- Before driving, check that the signalling and lighting systems (switch on battery circuit breaker), steering and brakes function correctly.
- If the vehicle has been standing for a longer period of time (approx. 10 months) have an authorised workshop check the brake system and the gas system.
- Set up (re - position) the vehicle's wing mirrors.
- Open the blinds on the front and side windows fully and secure them. Should there be a thermal curtain*, remove and store it.
- In winter, the roof must be cleared of snow and ice before driving.
- Regularly check the tyre pressure before driving. Incorrect tyre pressures can cause excessive wear, damage to the tyres or even lead to a puncture or blow out (**see also Chapter 14.5**).
- Check liquids such as oil, coolant, brake fluid and wind-screen washer fluid and top them up if necessary.



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



Prepare the vehicle before driving!

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

Battery



- Fully charge the batteries before each journey. See also “**Ancillary battery**” in Chapter 7.
- Switch on battery circuit breaker.

Driver's cab

Do not forget the following

- Position the drivers seat correctly to enable you to drive safely.

Interior

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

Preparing the interior

- Sort loose objects and stow them in the compartments.
- Store heavy and / or large objects (e.g. TV, boxes of wine or cases of beer) safely before you start your journey, securing them to prevent them from moving around (**see also Chapter 3.3 Loading**).
- If necessary switch the refrigerator to 12 V operation.
- Ensure that no liquids, including those in the refrigerator, will leak.
- Close all of the emergency shutoff valves on the individual gas appliances, with the exception of the stop valve for the heating, if the vehicle has been equipped with a gas pressure regulator for use while driving (e.g. Control CS).
- Close doors (including refrigerator door), drawers and lockers firmly (**Siesta model**: lock the central lock on the kitchen drawers).
- Secure the table and, if possible, lower it.
- Should there be an overcab bed, move it to the upright position and lock it into place.
- Put the face-to-face seating arrangement in the travelling position (**see Chapter 6.13**).
- If necessary, secure the TV bracket and, if possible, remove the TV* and store it securely.

- Turn off interior lights.
- Fully open the Remis Blinds for the driver's cab and lock them into place.
- Should there be a thermal curtain*, remove it from the driver's cab.
- If fitted, secure the shower doors.



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

Gas bottles must be placed and secured correctly in the gas box only.

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**.



The additional load indicated in **Chapter 14 "Technical Data"** was calculated based on the fresh water tank holding 10 % of a full tank. The fresh water tank should be drained before starting to drive so that it holds only the recommended 10 litres (**see Chapter 8 "Water"**).

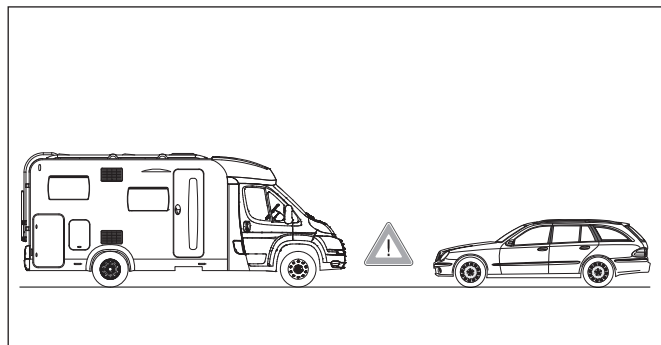
Place a note with all important measures and weights in a visible place in both the motor home and the driver's cab.

Preparing the vehicle

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

Preparing the vehicle

- If the rear corner steadies* have been extended, retract them.
- Close all the windows in the engine home as well as skylights in the roof.
- Retract the entrance step.
- If necessary, switch off the awning light.
- If necessary, slide the TV aerial* in as far as possible or lower and secure the satellite dish*.
- Close the drain valve for the waste water tank.
- Secure gas cylinders.
- If connected remove the 230 V electric cable from the exterior socket.
- If necessary, secure any bicycles on the bicycle carrier*, lashing them with the fastening straps to prevent them from slipping, and ensure that the vehicles rear lights are not covered.
- If necessary, pack away the the awning and stow the winding handle securely in the storage area of the motor home.



Observe the specific features of the motorhome's driving performance!

2.6 Whilst driving

Your motor home is not a car!

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

Passenger safety

The following applies when driving:

- Only those seats equipped with seat belts may be used by passengers.
- People may not be lying in the beds while driving.
- Passengers must remain in their seats with their seat belt on!

- Only fit children's car seats on seats that have been fitted by the manufacturer with three-point belts.
- Turn the cab seats to face forward and lock them into place. The seats may not be turned when the vehicle is moving.
- Do not open the door latch!
- You must only have the same number of passengers as seats with seatbelts fitted.

Driving

Before the first longer journey, take a test drive or complete a safety training course to familiarise yourself with the motorhome's driving and handling characteristics. Remember to practise reversing. The base vehicle is a commercial vehicle; adjust your driving style accordingly.

The following applies for driving:

- Do not underestimate the length and width of the motor home. Due to the relatively long rear overhang larger vehicles can veer to one side and, on uneven ground, the rear can hit the ground.
- Be careful when driving into inner courtyards and through entrance gates.
- The motor home may start to sway from side to side in cross-winds, on wet or icy roads.
- If the mobile home starts to swing, step carefully but firmly on the brake to stabilise the vehicle.

- **Never** accelerate if the mobile home starts to sway.
- Adjust your speed to road and traffic conditions.
- Long descents with a slight gradient can become dangerous. Adjust your speed from the very beginning to allow you to speed up if necessary without endangering other road users.
- As a general rule, never drive faster downhill than uphill.
- The motor home may be caught up in a slipstream when overtaking or being overtaken by lorries with trailers or buses. This effect is counteracted by lightly counter-steering.
- Use foresight while driving; take regular breaks on longer journeys.

Driving around corners

Due to its height, a motor home becomes unstable more quickly than a car.

The following applies for driving around corners

- Never drive sharply or too quickly into a bend!
- When turning off the road, always pull out a little more to ensure a larger curve radius. Please note that, depending on the model, the rear end of the motor home may swing out. This is more noticeable when the motor home has a long rear overhang.

Driving economically

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

The following applies when driving

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

Braking

A motor home has a different brake response than that of a car. For this reason, inexperienced drivers in particular should carry out several test braking manoeuvres in a suitable location before driving on the road. The braking distance of the motor home is longer than that of a car. Furthermore, it is strongly influenced by how heavily the motor home has been loaded.

The following applies for braking

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



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

Reversing/Manoeuvring

Your motor home is far larger than a car.

The following applies to reversing/manoeuvring

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

Refuelling

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

The following applies when refuelling:

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

2.7 After driving

Selecting a parking space

The following applies for selecting a parking space

- Select a parking space that is as level as possible.
- If possible, pick your spot in daylight.
- Use the front step as a control point to check that your mobile home is standing in a horizontal position (important to ensure that the refrigerator functions correctly).
- On uneven ground or slopes, compensate for any incline by using ramps or leveling blocks underneath the wheels.

Pitching or siting the vehicle

The following applies when pitching or siting the vehicle

- Put the vehicle in gear.
- Pull on the handbrake.
- If necessary, lower the rear corner steadies*.
- Only extend the corner steadies* to the point where the axle still assists in bearing the weight.
- If the ground is soft, place blocks under the corner steadies*.
- If necessary, use blocks (not included in the standard equipment.)



Do not use the corner steadies* to compensate for any differences in height.

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



Should the temperature be around 0° C or less, only pull lightly on the hand brake and always shift into a gear so that the hand brake does not freeze!

Switching to mains hook up:

The following applies when to mains hook up

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

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 system regularly, and always before each journey.

Chapter 3: Chassis

3.1 General Information

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



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

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



VIN of the base vehicle Fiat



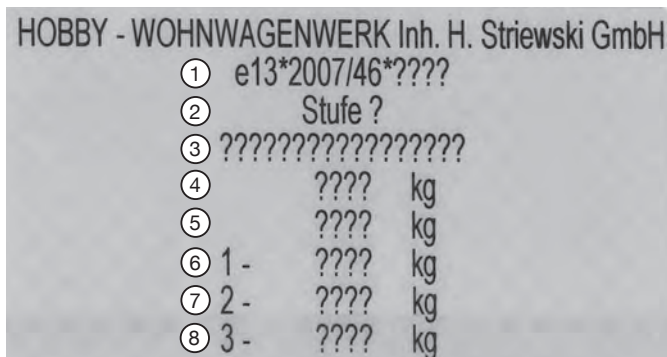
VIN of the base vehicle Citroën

3.2 Vehicle identification number (VIN)

The 17-digit vehicle ID number has been applied to the inner wheel arch on the passenger's side.

To identify it more easily, the VIN can also be found on a label on the nearside of the windsreen at the bottom, which is legible from outside the vehicle. In addition, the VIN is also given on the type plate of the base vehicle as well as on the Hobby type plate (on the right-hand B-pillar, located in the middle above the lock on the door).

Always have your VIN at hand whenever you have a question or visit your dealer/service partner.



Hobby name plate

- ① Approval number
- ② Manufacturer's version
- ③ Vehicle identification number
- ④ Permissible maximum weight
- ⑤ Technically permissible maximum laden mass of combination
- ⑥ Permissible axle load, 1st axle
- ⑦ Permissible axle load, 2nd axle
- ⑧ Permissible axle load, 3rd axle



Do not remove or change the name plate.

3.3 Loading

3.3.1 General information

Rules for loading:

- Spread the load evenly between the left and right-hand side of the motor home. Heavy or bulky objects should be placed in the lower storage compartments and near the axle.
- Never overload the rear of the mobile home, because this will have a negative influence on its driving performance.
- The lower the mobile home's centre of gravity, the better its driving performance and response will be in when cornering.
- Store baggage in the interior in cupboards and storage compartments.
- Heavy objects should be stowed securely to prevent them from moving.
- Lighter objects (clothing) should be stowed in the wall cupboards.
- Secure doors and lockers.
- Check the technically permissible maximum weight and the axle load(s) after you have finished loading.

Rear garage (model-specific)

When loading the rear garage adhere to the permissible axle loads and the technically permissible total mass. Distribute pay-load evenly. Items with sharp edges will damage the floor covering.

All of the equipment carried in the external storage locker must be securely fastened using lashing eyes and suitable retaining straps.



- The maximum permissible load for the rear external storage locker or garage is 150 kg.
- On no account should the permissible rear axle load be exceeded.
- Due to the weight transfer from the front axle, it is considerably more difficult to handle the vehicle when the rear garage is fully loaded.
- Always check that the lashing rings are firmly locked before you start your journey.
- The owner/driver of the vehicle is always responsible for ensuring that loads transported in the rear garage have been correctly secured. As far as possible, always use tension belt systems licensed for this purpose.
- Never use bungee straps. Remember that exceptionally strong driving dynamics can occur in dangerous situations or when you are forced to slam on the brakes.



The maximum axle loads as well as the technically permissible overall mass entered in the vehicle's documents 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 vehicle, you should have it weighed at a public weighing facility.

3.3.2 Definition of weights for motor homes

EU Directive 1230/2012 applies at a European level for calculating the weights and resultant additional loads for motor homes. The terms and basis used for calculations are explained below.

1. Technically permissible overall mass

Information regarding the technically permissible maximum weight is based on Hobby Wohnwagenwerk's specification in cooperation with the manufacturers of the base vehicle (Fiat, Citroën). This mass takes into account the specific operating conditions that are based on the model of the motor home and its performance, including such factors as material strength,

load-carrying capacity of the axles and tyres, etc. For safety reasons, this weight must never be exceeded!

2. Mass in running order (MRO)

The mass in running order is equal to the weight of the empty vehicle including lubricants, tools, spare tyre (or tyre repair kit), petrol (90 %), ancillary battery, all of the standard equipment installed by the factory as well as 75 kg for the driver. Then add the mass of the fresh water container, holding 10% of a full tank, as well as that of a full gas bottle. The masses are calculated in detail as follows:

	Siesta, Optima
a) Supply of liquefied petroleum gas	
Number of built-in gas regulators:	1
Weight of an 11 kg aluminium bottle:	5
Weight of 11 kg gas inflation:	11
Total:	16
b) Liquids	
10 % of the 100 l fresh water tank:	10
10 l hot water heater (heating):	10
Total basic equipment:	36 kg

3. Additional equipment / optional extras

Weight of the equipment that was assembled by the manufacturer in or on the mobile home in addition to the standard equipment. These optional extras will be shown in the actual weight of the vehicle if

- they are not part of the standard scope of equipment,
- Hobby or the manufacturer of the base vehicle were 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 / payload

Difference between the technically permissible maximum weight and the mass in running order, plus the weight of the passengers and the weight of the additional equipment.

6. Minimum loading capacity

The loading capacity must be equal at least to the formula

$10 \times (n + L)$, whereby:

- n** - highest number of passengers plus the driver
- L** - total length of the superstructure in meters

The minimum loading capacity includes objects that users may carry in the motor home which are not included in the mass in running order (MIRO) or in the optional extras (e.g. clothing, toilet and kitchen fittings, food, camping equipment, toys, pets).

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 in running order (MIRO), the loading capacity/additional load (Item 5) can be increased by this value.



Tow bar

3.4 Tow bar *

The maximum towing weight, trailer load and tow bar load are set out in **Chapter 14 "Technical Data"**.



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

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



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

If the technically permissible maximum weight is increased, the trailer load is reduced, respectively. Again, in this case the trailer load cannot be increased.



If applicable, please observe national regulations in foreign countries.

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

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

3.5 Aftermarket Modifications

Registering accessories in the vehicle's documents

- Have your HOBBY dealer fit your aftermarket modifications.
- Take your motor home to a technical support organisation or technical service provider (e.g. MOT).
- The technical support organisation will approve the fittings and draw up a certificate.
(road traffic authorities)
- Take the certificate and the Motor Vehicle Registration Certificate Part I to the national vehicle registration authority (Driver & Vehicle Licensing Agency). They will enter the change in the registration document.



3.6 Automatic transmission* (FIAT)

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

FIAT Comfort-Matic

The gearshift lever on the dashboard has three fixed positions:

- centre position for selecting the forward gear “D”,
- top right: for selecting the neutral position “N” (engine is idle),
- bottom right: for selecting the reverse gear “R”.

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

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

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

Manual operation

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

- Move the lever in the direction of (+) to change up or in the direction of (-) to change down. Do not take your foot of the accelerator pedal while you are changing gears.

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

Automatic operation

The lever must be pressed in the direction of A/M in order to switch automatic operation on or off. The system automatically shifts gears on the basis of the vehicle's speed, the engine rpm and the position of the accelerator pedal.

If necessary, the system will shift down one or more gears when you press the accelerator pedal down fully. This will provide you with the required performance and torque to achieve the acceleration you require.

Parking the vehicle

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

If the vehicle is brought to a halt while in automatic mode, the automatic transmission will automatically shift into first gear. Alternatively, you can change manually into first gear.



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



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

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

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

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

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

Chapter 4: Wheels and Tyres

4.1 Wheels

The following applies for wheel studs

If you are driving a new vehicle, or after changing a tyre, tighten the wheel studs 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 studs 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 studs:

Rim size	Fiat Ducato/Citroën Jumper
16"	180 Nm
15"	160 Nm



Check and or re torque every 5,000 km or at least once a year.

4.2 Tyres

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

- Check tyres regularly to ensure that the tread is worn down evenly; check tread depth; check for external damages.
- 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 your tyres

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



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

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

Snow chains



Never drive faster than 50 km/h.

Do not use snow chains on snow-free roads.

Snow chains can only be fitted to wheels and tyres that are the same sizes as originally fitted to the vehicle.

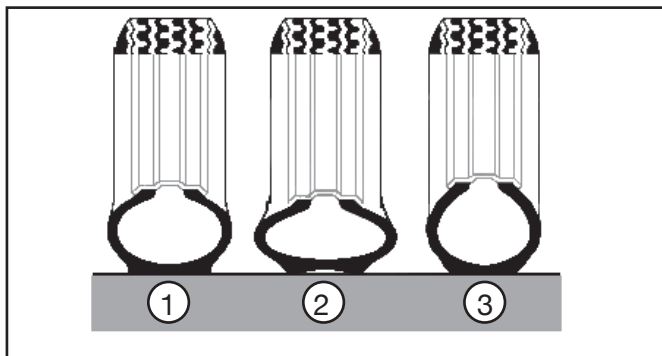
Snow chains may only be fitted on the front drive wheels; it is strictly forbidden to mount snow chains on the rear wheels.

Any wheel trims must be removed before putting on snow chains.

4.3 Tyre pressure

The following applies when checking tyre pressure:

- Check and correct the tyre pressures every four weeks (but at least every three months) and before every drive.
- You should only check tyre pressures when the tyres are cold.
- If checking or correcting the pressure of a warm tyre, the pressure must be 0.3 bar higher than for a cold tyre.
- 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

The following applies for inflation pressure:

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



If the pressure is too low, this may cause overheating of the tyre, possibly resulting in severe damage to the tyre. If the tyre pressure is too high, this will lead to increased wear and tear of the tread and may cause damage to the wheel suspension.



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

4.4 Tyre tread depth and age of tyres

The law states that tyres must be replaced when the tread depth gets to 1.6 mm.



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

Safety limit in summer: 3.0 mm

Safety limit in winter: 4.0 mm

Tyres 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 if they are seldomly used or not at all.

Tyre manufacturers' recommendations

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



DOT number

Age of tyres

Tyres should never be more than six (6) years old as the material becomes brittle with age and when the vehicle is not used for a long period of time. The four-digit DOT number on the side of the tyre (it may be necessary to check the inner side) indicates the date it was manufactured. The first two digits refer to the manufacturing week, the last two digits to the manufacturing year.

Example:

DOT 1818 means week 18 in the year of manufacture (here: 2018).

4.5 Wheel rims

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

The following applies when using other wheel rims:

- Size,
- The pitch Circle Diameter (PCD) and the wheel offset,
- The load bearing capacity must be sufficient for the permissible total axle weight.
- The wheel nuts must be the correct type for the wheel rims fitted. i.e. Steel / Alloy (cone washer, spherical wheel bolt)



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

4.6 Changing a tyre

Preparing to change the tyre

- Park the vehicle on a surface that is as level and firm as possible.
- Should there be a blowout on a public road, switch on the warning lights and set up the warning triangle.
- Pull the hand brake, select first gear and align the wheels so that they are straight. When the vehicle has been brought to a halt, the automatic transmission will automatically shift into first gear.
- If necessary, place chocks in front of and behind the wheel that is still in good order so as to secure the vehicle.

Changing a tyre

- Place a firm base, such as a piece of wood, underneath the car jack if the vehicle is on soft ground.
- Insert the car jack into the appropriate mounting holes.
- Turn the wheel brace one full circle to loosen the wheel nuts, but do not remove them.
- Jack up the vehicle until the wheel is 2 -3 cm above the ground.
- Reset the car jack if it slips while the vehicle is being jacked up.
- Remove the wheel studs/nuts and lift off the tyre.
- Place the spare tyre (not included in the scope of delivery) on the wheel hub and align it.

- Screw the nuts on and tighten them in a diagonal sequence.
- Lower the car jack and remove it.
- Tighten the wheel nuts evenly with the wheel brace.
Please refer to the operating instructions for the base vehicle for the specified torque setting for the wheel nuts (or Chapter 4.1).



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

The car jack (not included in the scope of delivery) must only be inserted in the appropriate mounting holes! If the car jack is attached in other places, this may cause damage to the vehicle or even accidents if the vehicle falls off the jack.

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

The levelling supports* must not be used as a car jack!



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

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



Fast tyre repair kit

4.7 Fast tyre repair kit

The standard version of your motor home does not have a spare tyre. Instead, a fast tyre repair kit is included.

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

The fast tyre repair kit can be used when the outside temperature ranges from -40°C to $+50^{\circ}\text{C}$.



Please refer to the enclosed guidelines for instructions on how to use the fast tyre repair kit.

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

Do not leave the compressor continuously switched on for more than 20 minutes. There may be a risk of overheating.

Chapter 5: Exterior Structure

5.1 Ventilation

The following applies for ventilation:

Ventilation is important if you want to feel comfortable in your motor home. Draft-free ventilation is integrated in your motor home via the traction unit; de-aerating via the roof bonnets. Do not interfere with their mode of operation!



Never cover the safety ventilation, not even partially. Keep the vents and coverings clean and dust-free. When using an awning, ensure that there is good ventilation if the fridge vents and other fixed ventilation points are located inside the awning.



We recommend that you open the roof lights whenever you are using the motor home. Condensation is produced while cooking, from wet clothes, etc. Every person produces up to 35 g of water vapour per hour. Therefore, depending on the relative humidity, the windows and skylights must be opened for further ventilation (see also 12.7 "Operating in Winter").



Ventilation grill, refrigerator

Refrigerator

Vents supply the refrigerator with fresh air from outside to ensure sufficient refrigerating capacity. The lower fridge vents ① is located at the bottom of the outer wall of the vehicle. The top vent ② is located above the condensor on the rear of the fridge.

Ventilation and de-aerating of the van is a prerequisite for sufficient cooling capacity. When the refrigerator is not being run, the ventilation grills can be closed using the appropriate covers.

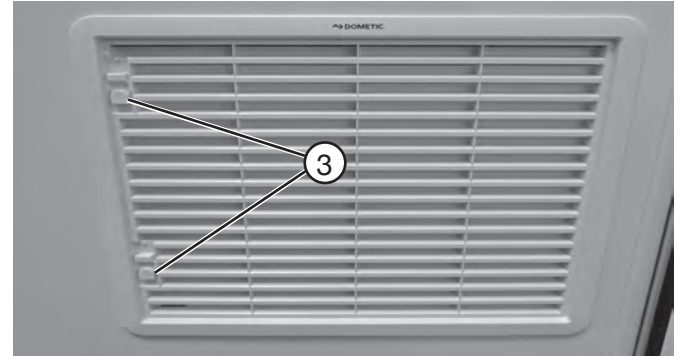


Do not block the refrigerator's ventilation grill so as not to restrict cooling performance and the functions of the refrigerator.

Use the special cover panels for the air vents on the side of the vehicle when operating the caravan in winter. These winter panels are a chargeable option; they can be obtained from your dealer.

Please also note the information on the covers. For further information, please check the operating instructions supplied by the refrigerator manufacturer.

If the temperature outside is very high, we recommend that you park the motor home in the shade to maintain the cooling capacity.



Locks for ventilation grill

Removing the ventilation grills during maintenance and repair

- Push the lock ③ as far up as they will go.
- Carefully pull the left side of the vent cover away from the body of the motor home.
- Then pull the vent to the left to release the right side of the vent from its retaining lugs.



The ventilation grills must be firmly mounted while driving or when it is raining.



Heating flue

Heating

Air for the heating system is supplied from outside using combustion air ①. At the same time, the exhaust air from the heating system ② is ducted outside.



Blocked ventilation openings can cause malfunctions and may channel exhaust fumes inside the motor home.

Danger of suffocation!

When operating in winter ensure that the flue outlet is not blocked.

5.2 Opening and closing doors and lockers

Keys to the vehicle

The following keys are supplied with the motor home:

- two keys to fit the following locks on the base vehicle:
 - driver's and passenger's doors
 - a code card (not applicable in the current season; therefore, this depends on the date of production for this vehicle).



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

- two keys that fit the following locks on the structure:
 - entrance door,
 - toilet cassette locker door,
 - Gas box door,
 - Garage door (model-specific),
 - fresh water filler cap.



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



Habitation door from the outside

Habitation door

Opening

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

Closing

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



The habitation door is your escape route in an emergency. Therefore, never block the door from the outside! Only drive when the habitation door is closed.



To prevent any damage, never use the guide rails for the fly screen as a handle for helping gain access to the vehicle.



Habitation door from the inside

Entrance door internal

Opening

- Pull on the handle ① until the door opens.

Closing

- Pull the long handle ② to close the door until it locks in place.

Locking

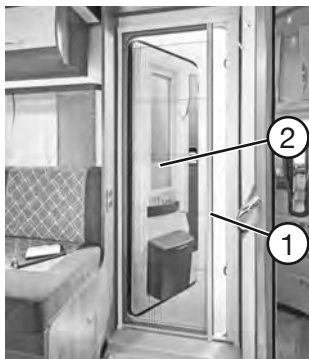
- Press the handle ① into the recess (Fig. Habitation door from the inside).



Habitation door Siesta De Luxe



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



Habitation door Optima De Luxe and Premium / Siesta optional
Pleated blind and fly screen



Pull the blind and the fly screen on the habitation door to the desired position. To open, carefully guide the rail back to the original position in order to fold the blinds correctly.

- ① Guiding rail for fly screen
- ② Guiding rail for fly screen



The fly screen can only be pulled out if the door is open. Only shut the door after the fly screen has been pushed back into its original position!



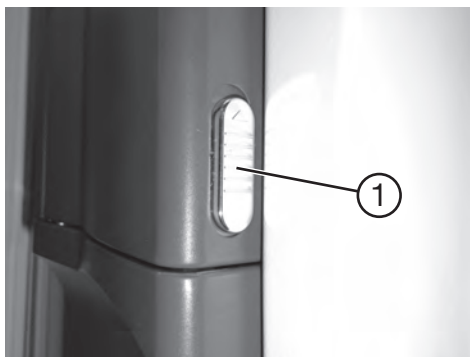
Waste bin

Waste bin

A hand broom and dustpan have been integrated in the lid of the disposal bin. They can be removed as required.

To empty

- To empty the waste bin, first open the lid.
- Carefully release the grey mounting frame from its position.
- The bin can then be opened by folding it down and the contents can be removed.



Sliding compartment lock

Door compartments

The compartments in the entrance door can be opened by sliding the lock ① up or down. To open, push the lock ① up. When closing the compartments, ensure that they are fully locked into place.



Garage (storage locker) door



Garage flap/ Stowage flap



The maximum load for the external garage is 150 kg.

Optima De Luxe/Optima Premium/Siesta De Luxe (model-specific)

Un-Locking

- Unlatch both locks with the key. When unlocked the handles spring out ②.
- Turn the handle to the left.
- Open the door to the side or up, depending on your model.

Locking

- Close the door.
- Turn the handle to the right until the door is pulled into the seal.
- Lock both handles with the key and push the handles in until they click into place.



Garage locked



Garage unlocked

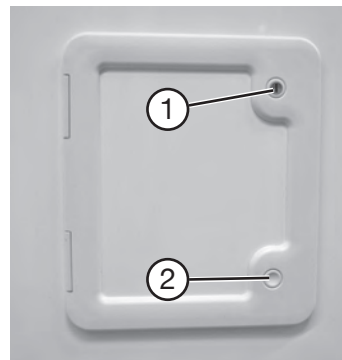
Optima Outour Edition

To open

- Unlatch both locks with the key.
- Turn the handles 180° to the left so that the red background ② above the lock is visible.
- Swing the flap to the side.

To close

- Swing the flap shut.
- Turn the handle 180° to the right.
- Latch both locks with the key.



Toilet cassette door

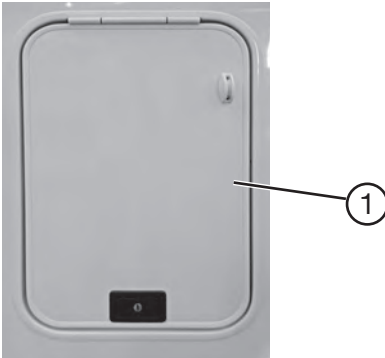
Toilet door

Un-Locking

- Use the key to unlock the door. ①.
- Press both buttons (① and ②) and open the door to the side.

Locking

- Close the toilet door and push until it clicks into place.
- Use key to lock ①.



Gas bottle box door

Gas-bottle box door



The ventilation grill(s) in the gas-bottle container must not be closed or covered.

Optima De Luxe/Optima Premium/Siesta De Luxe

Un-Locking

- Use the key to unlock the lock ①; the handle will spring out a little bit.
- Turn the handle to the left to open; this releases the door, which can then be pulled open

Locking

- Turn the handle to the right; this pulls the door into the seal.
- Place the key in the lock, push the handle in and turn the key 180 degrees to lock it in place.



Gas-bottle container, closed

Optima Ontour Edition

To open

- Unlatch the lock with the key.
- Turn the handle 180° to the left so that the red background ② above the lock is visible.
- Swing the flap up until the flap retainers interlock.

To close

- Swing the flap shut.
- Turn the handle 180° to the right and use the key to lock the container.



Gas-bottle container, open



Two piece door retainer



Magnetic door retainer

Retaining devices for locker and habitation doors

Some of the external doors can be held in place using the door retaining devices on the outside wall of the motor home. The habitation door of the motorhome is held in place by means of a special magnetic door retainer.

Holding the external doors in place

- Open the door 180°.
- Push the two parts of the door retainer together. Take care to ensure that it clicks firmly into place.

To unlock

- Pull the door until the two parts of the door retainer come apart.

Holding the habitation door in place

- Open the door through 180°.
- Press the magnetic door holder that is fastened to the door onto its counterpart (fastened on the outside wall of the motor home) until the magnets stick together.

Releasing the magnetic door holder

- Pull the magnets apart by slowly starting to close the door, using only a small amount of pressure.



Door retainers for locker doors

To hold open

- Lift up the outer part of the retainer clip.
- Open the door 180° and release the outer part of the door retainer until it catches hold of the door and holds it securely in place.

To release and close

- Lift up the outer part of the door retainer to release to the door, close the door and lock into place.



Doors and flaps must always be closed before driving.



Some doors and flaps have a pneumatic strut that prevents the door or flap from falling shut accidentally.



Cover flap

Cover flap

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



the fresh water filter point



external socket and antenna terminal* in the awning



external gas socket*



Mains hook up

Opening

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

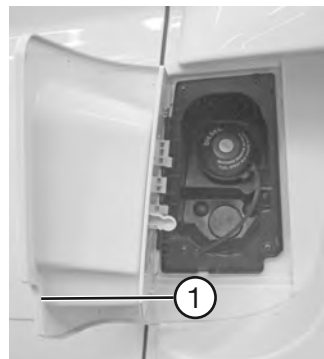
Closing

- 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**), gas (**chapter 9**) 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.



Fuel cap Fiat



Fuel cap Citroën

Fuel filler neck

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

Opening

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

Closing

- Push the flap until it locks.



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



Extended entrance step

5.3 Entrance step

The motor homes are equipped with an electrically extendable entrance step ①.



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



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

Following a short delay after the motor is started, the step is automatically retracted.

To open

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



Retracted entrance step



Switch for step tread

To close

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



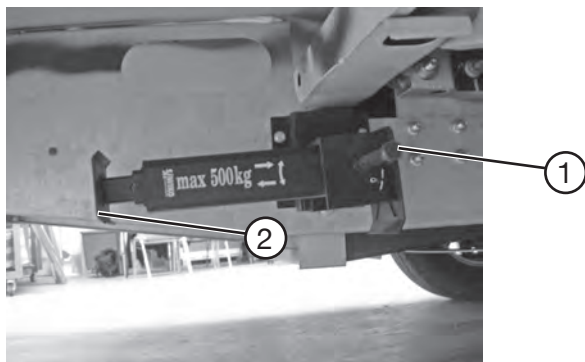
Make sure that when you press the switch you are not standing in the way of the entrance step as it is extended.

You could be seriously injured! ! Alternately make sure that nobody is standing on the step as it is retracted.



The action of the buttons may vary, depending on the model.
Continue pressing the switch until the step has completely folded in or out.

If, due to dirt or frost, the entrance step does not function properly or at all, the hinges must be cleaned or defrosted. Please observe the enclosed manufacturer's operating instructions.



Corner steadies, folded in

5.4 Corner steadies *

The corner steadies are located in the rear area by the frame extension.

Lowering the corner steadies

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



Corner steadies, folded out

Retracting the steadies

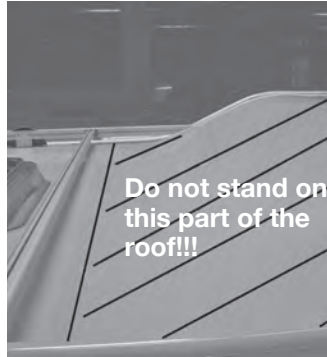
- Use winding handle to release levelling supports.
- Continue to turn smoothly until the steady is once again in its initial horizontal position.



- Do not use the steadies as a car jack. Their sole purpose is to stabilise the motor home when it is parked.
- Always load the steadies evenly (max. 500 kg per support).
- Always retract the legs and secure them before driving.
- Clean the steadies regularly and grease them slightly.



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



Curved edges of roof

5.5 Roof

The following applies for the roof load

The roof has not been made for concentrated loads. Place a cover or board to spread your weight and protect the roof surface before standing on the roof. Materials with a soft and smooth surface (such as a large piece of styrofoam) are suitable for this purpose.

- Use only standardised and licensed ladders that can be positioned firmly to climb onto the roof.
- Do not stand too close to the sky lights or the air conditioning systems on the roof (stay at least 30 cm away).
- Do not stand on the rounded areas at the front and rear ends of the motor home.



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



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



Bicycle carrier, loaded (Example for Aluline)

5.6 Bicycle carrier *



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

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

- The driver is responsible for the secure fastening of the bicycles. The loading system must be folded up and secured by means of the straps attached, even if nothing has been loaded.



Bicycle carrier, secured

- Ensure that the rear tail lights are not completely or partially obscured by any loads.



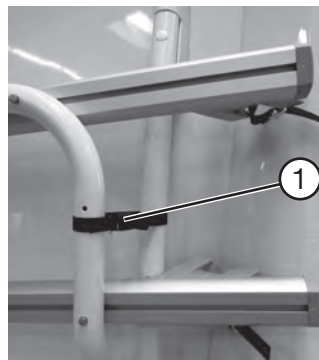
The maximum permissible loading capacity for the bicycle carrier is:

Manufacturer Thule

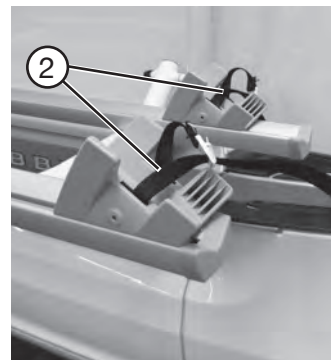
(Optima Ontour Edition/Siesta and Optima De Luxe) = 60 kg

Manufacturer Aluline

(Optima Premium) = 50 kg



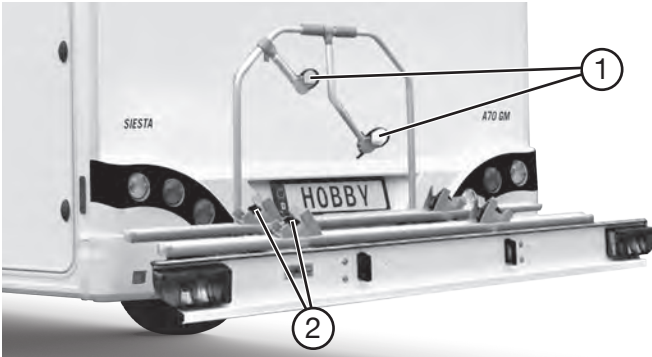
Securing the bicycle carrier



Securing the bicycles

If the rear-mounted bicycle carrier is not required, it must be folded up and secured. To do this, use the separate fastenings ① (may be in the accessory kit).

When driving with bicycles, the bicycle carrier must be unfolded and the straps ② must be firmly secured. The front and back wheels of each bicycle must be firmly secured using the straps ②. The fastenings included in the accessory kit are used for the frame.



eBike carrier

5.7 Bicycle carrier Sawiko *

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

To secure

- The clip ① must be attached to the bicycle as high as possible. We recommend that you use, for example, the seat post or the handle bar stem.
- The wheels are strapped to the lower attachments ②. A ratchet strap can be used as an additional means of securing this load.



- Always maintain the permissible load-carrying capacity of the carrier (80 kg) and never overload it.
- If the rear carrier is fully loaded, and depending on how much the load juts out over it, the load on the rear axle will be increased while it will be decreased on the front axle. This can change the driving performance and steering and brake response of the vehicle.
- The carrier reduces the rear ramp angle of the vehicle. Therefore, the vehicle may touch the ground when driving over uneven terrain.
- The rear licence plate must be centrally mounted between the carrier's licence plate lights.
- Do not use a high-pressure cleaner to clean the carrier as this may damage the surface protection.
- Use only original spare parts and accessories that have been certified by SAWIKO in order to maintain your rights from the guarantee.
- Simultaneous use of the eBike carrier and the tow-bar is not permitted. Only one system may be mounted at a time: either the eBike carrier or the tow-bar.



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

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



Awning

5.8 Sun awning

Depending on the model, your motor home has an awning that is attached either to the roof (**Optima**) or to the side wall (**Siesta De Luxe**).



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

Extending

- Insert the hook on the winding handle into the grommet on the winding mechanism.
- Hold the handle with one hand on the upper twist grip and the other on the lower twist grip. During the operating procedure gently pull the handle towards you and hold it as vertically in the grommet as possible.
- Turn the handle clockwise until the awning has been rolled out about 1 m.
- Unfold the adjustable legs on the inside of the drop tube and use them to support the awning.
- Only then should you roll out the awning to the desired position.
- Remove the handle.



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

Please read the manufacturer's separate operating instructions before use.

Retracting

- Insert the hook on the handle into the grommet on the winding mechanism.
- Turn the connecting rod anti-clockwise until the awning has been rolled in except for the last meter.
- Lift up the adjustable legs, fold them up and secure them.
- Only then should you roll in the awning completely and secure it.
- Remove the handle and store it in the vehicle.

Chapter 6: Interior Structure

6.1 Opening and closing doors and drawers

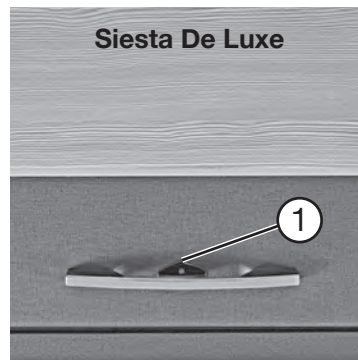
Furniture doors with a locking mechanism



Store only light objects in the upper storage cabinets.



Please observe the maximum load of 15 kg per drawer.



Siesta De Luxe



Optima De Luxe / Premium

Wall cabinets in the kitchen

Handle with locking mechanism

Storage and wall cabinets as well as kitchen drawers (Optima)

To open

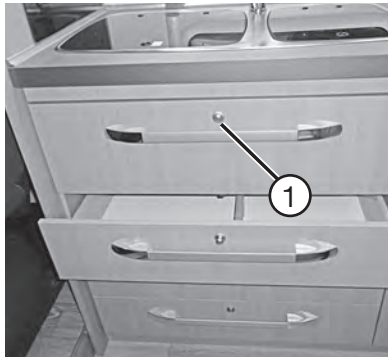
- Press the pushbutton ① to unlock the flap/drawer.
- Pull on the handle until the door/drawer opens.

To close

- Use the handle to close the door/drawer until it shuts and locks itself into place. Should this not be the case, the door must be locked by hand.



Pushlock



Pushlock in connection with kitchen drawer

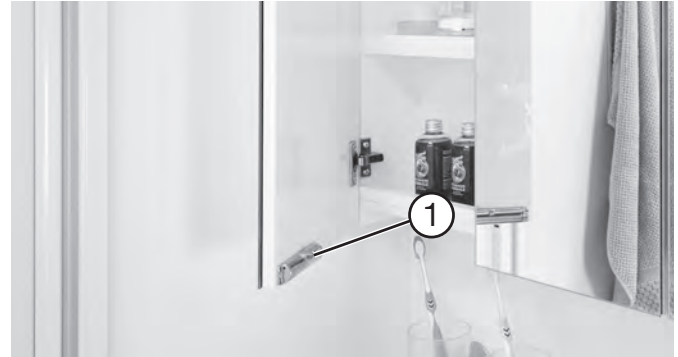
Pushlock fitted to kitchen drawers

To open

- Press the push-lock ① until the button springs out.
- To open the door or drawer, pull carefully.

To close

- Shut the door/flap or drawer.
- Press the pushlock ① until the button stays in the closed position and the door or drawer is securely closed.



Mirror cabinets

Mirror cabinets washroom

To open

- Open the door of the mirror cabinet by pressing the lower edge of the lock ① from behind.

To close

- Push the door of the mirror cabinet back to its original position until it noticeably locks itself into place.



Washroom door handle

Washroom door

- Twist the handle down and pull or push open or shut the door.



Olive-shaped handle

Furniture doors with turning handle

Wardrobe (model-specific)

- Turn the handle 90° to open or shut the door.



Basic furniture door



Magnetic lock

Further furniture doors

Other furniture doors and furniture doors with magnetic safety catches

To open

- Pull on the handle and twist the door open.

To open

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



Basic furniture doors may be held closed by a magnet. Therefore, only light-weight objects should be stored in these cupboards.



Sliding door in washroom

Sliding doors

To open

- Grasp the frame of the door and push it open.

To close

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



Slide out TV bracket
flat screen



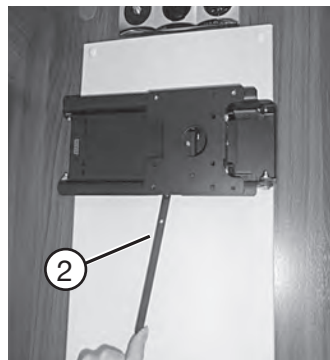
Slide out TV Bracket flat screen TV, turns
through 180°

6.2 TV mount

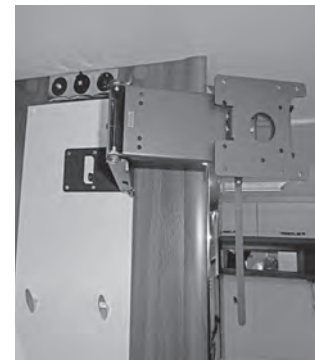
230 V sockets and the aerial connection for the TV and the receiver are located directly next to where a bracket is fitted for the TV (model-specific location).

Slide out bracket for flat screen TV

- To unlock, press the metal rail ① and, at the same time, slide the TV bracket.
- To retract the mount, push it back to its original position until it is noticeably locked into place.



TV bracket in locked position.



TV bracket, folded out

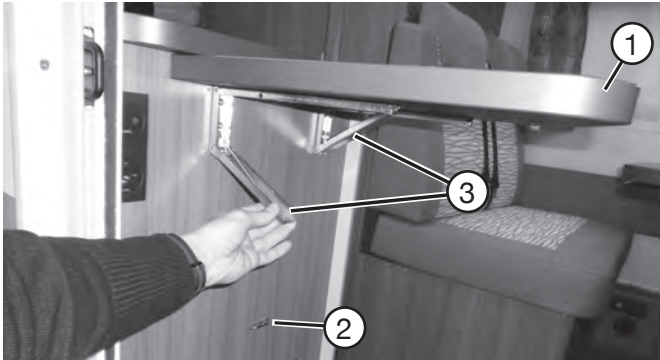
Bracket for flat screen TV

- To unlock, push the metal bar ② to the right. The lock will be released and the TV bracket can be folded out.
- To lock away the bracket, push it back to its original position until it is noticeably locked into place



Lock the media unit or TV bracket before driving. Please measure the installation dimensions of your motor home before you buy or install a television. The measurements depend on the model and optional extras.

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



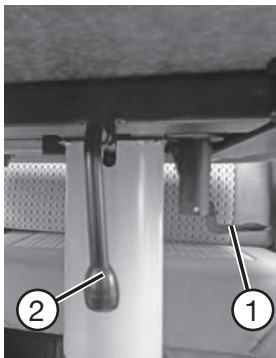
correctly secured by carefully pressing the extension leaf into the anchoring ② until the leaf clicks into place.

Worktop extension

6.3 Worktop extension for the kitchen (only for the Optima Ontour Edition model)

- Give the lowered extension ① a slight pull to release it from its anchoring ②.
- Place the extension leaf in a horizontal position.
- Fasten the extension securely by hooking both movable guide rails ③ of the folding mechanism into the notches provided for this purpose.

To return the worktop extension to its original position, retrace the above steps in reverse order. Ensure that the extension is



Elevating table



Elevating table, lowered

6.4 Tables

Elevating table* (standard in the T70 GQ/T70 HGQ series)

The elevating table can be lowered, moved aside and swivelled 360°.

Moving and swivelling the table

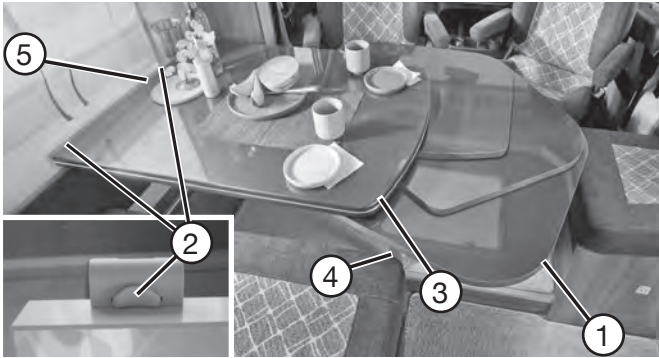
- Release the lever ① to enable you to move the table to any position on the pillar and turn it on its own axis.
- Push the lever ① back into place to lock the table into the desired position.

To lower

- Pull the lever ② all the way to the other side to unlock the table.
- Use both hands to push the table top down.
- Pull the lever ② back into its original position to lock the table into the desired position.



To lower the table all the way to the down, the table top must be positioned in such a way that it doesn't get caught on the seat bases.



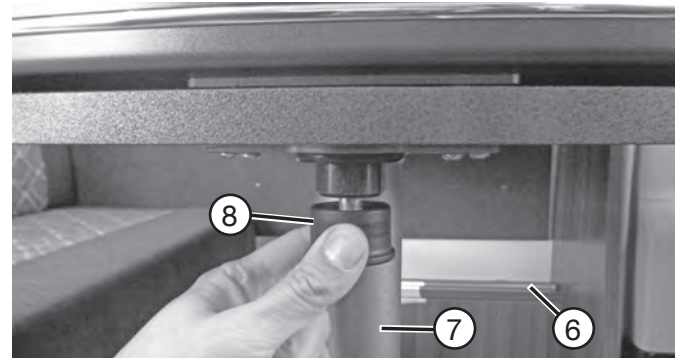
Hanging table with extendable table top

Hanging table

The lower table top of the hanging table can be turned out. When lowered, the hanging table can be used as a base frame for the bed.

To lower

- Fully close the lower, extendable table top ① until it locks into place by itself.
- Press the lock ② down
- Raise the front end of the table top ③ by approx. 30°.
- Pull down the lower section of the table leg ④ and remove it.
- Pull the table top out of the upper wall bracket ⑤.
- Hook the table top into the lower wall bracket ⑥.



Locking pin underneath the table top

- Push the lock back up again to lock the table securely in the bracket.
- Place the shortened supporting leg ⑦ at the front edge of the table top on the floor.

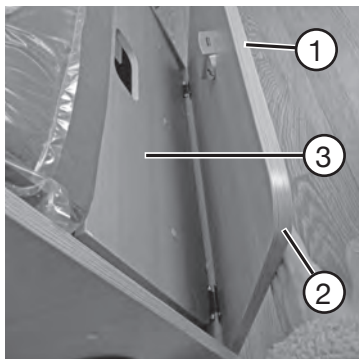
To swivel out

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

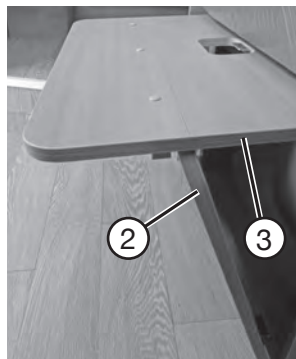


The A65 GM and A70 GM models do not have an extendable table top.

In models with overcab beds, the hanging table cannot be lowered, because there is no need to convert it into a bed as you have the alcove bed.



Widening the bench seat



Occasional bed (3rd bed)

6.5 Seating arrangements and sleeping areas

Some seating arrangements can be converted to beds.

Conversion (only Siesta De Luxe A65 und A70)

- Undo the lock ① on the end of the bench seat.
- Place the end panel ② of the seat bench on the floor.
- Raise the inner panel ③ approx. 15° above the horizontal position.
- Wedge the outer panel ② in a 45° angle (approx.) beneath the inner panel ③ to support it.
- Place the cushions on the bed as shown in 6.6 “Rearranging the cushions”.

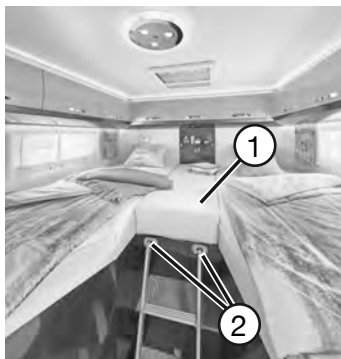
Creating the extra transverse bed

(does not apply for Siesta De Luxe, model-specific)

In order to use the additional bed, the transverse seat must be created.

Instructions

- Remove the base and back cushions.
- Lower the table (**Hanging table**: the table extension must be pulled out).
- Fold the side seat base board ① over by 180° and place it on the table and re arrange the cushions to make the bed.



Widening the beds



Extension piece



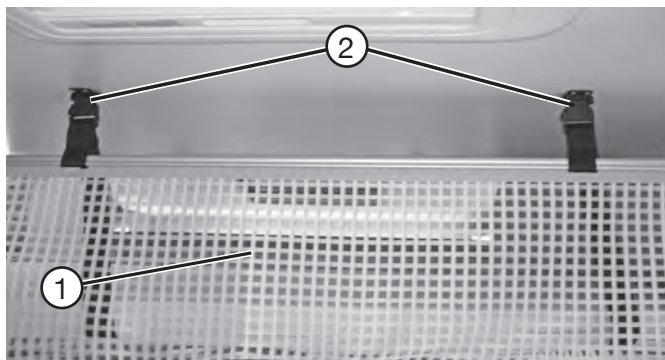
Extension plank and deadbolts in the Optima Ontour Edition model

Widening the Beds*

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

- put your fingers under the front edge of the extension piece and pull firmly so that the magnetic retaining (**not available in the Optima Ontour Edition model**) catch separates. When in a horizontal position, the spring bolts on both sides will hook into place. In the **Optima Ontour Edition model**, there are deadbolts on the left and right sides of the extension leaf. Push the deadbolts into the notches provided for this purpose to secure the extension for widening the beds and make sure it stays in its position.

- Insert the additional mattress ① provided for this purpose in the space between the beds.
- Attach the ladder to the ladder supports ② .
- To fold the extension plank ③ back into place, open the two spring bolts underneath the plank. In the **Optima Ontour Edition model**, pull back the deadbolts and push the extension plank back to its original position. Fasten the deadbolts in this position as well.

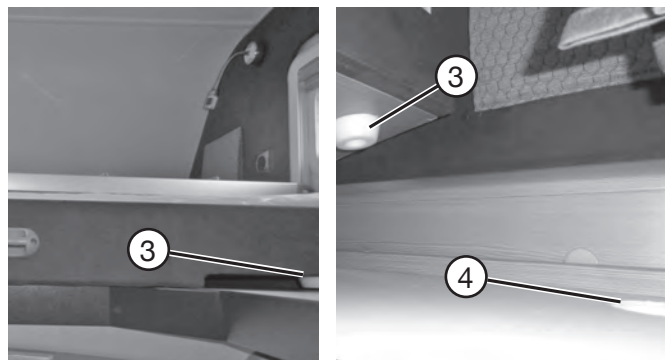


Safety net

Drop down/Queen-size bed, crossways/ Overcab bedbed

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

The base of the overcab can be pushed together for a more comfortable sitting position. To do this, lift the side of the overcab base with both hands by approx. 10 cm (4") so as to lift the brackets ③ out of their anchoring.



Overcab bases pushed together

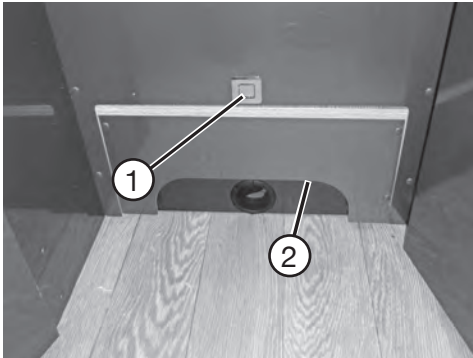
Overcab base rubber stoppers

Then use light pressure to push the floor forwards to the desired position and lower the overcab base.

To return the overcab base to its original position, lift it again and pull it towards you. When lowering the floor, ensure that the rubber stoppers ③ fall into place in their locking point ④.



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



Retracted step

Step for bed at rear end of vehicle (model-specific)

Some beds at the rear end of the motor home can be accessed by means of an extendable step.

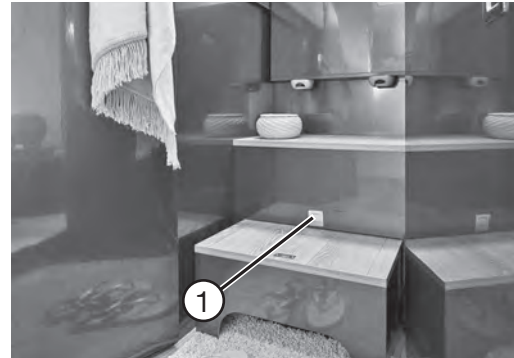
The step is held closed by means of a pushlock ①.

Extending the step

- Press the pushlock ① and the button will pop out.
- Put your hand in the notch ② and pull the step evenly and carefully until it is all the way out.



Before stepping on the step, ensure that it stands securely on the floor and is anchored in the panelling.



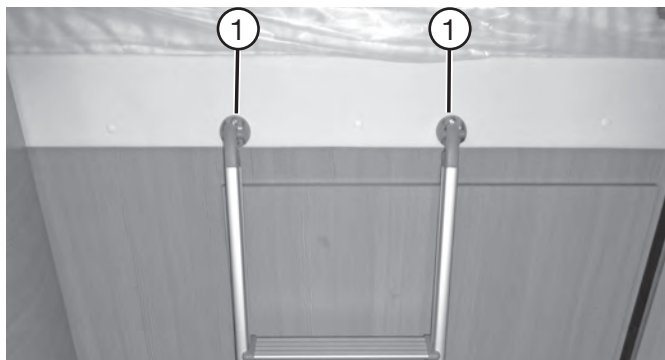
Extended step

Retracting the step

- Push the step slowly and evenly all the way back into the panelling.
- Press the pushlock ① to secure the step.



Before driving, push the step into the panelling and secure it by means of the pushlock.



Ladder securing

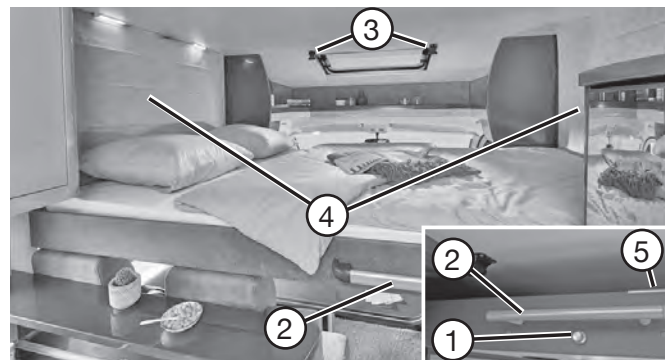
Access ladder

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

- Hook the upper end of the ladder firmly into the handle provided or into the retaining fixtures ① (model-specific).
- Place the ladder firmly on the floor.



Ensure that the ladder cannot slip.



Drop down bed, lowered

Alcove bed with cable pull technology (model-specific)

To operate

- If necessary, remove the back cushions and head rests from the seating bench.
- Switch off the lighting underneath the drop down bed.
- Release the lock for the drop down bed by pushing in the knob ① pressed.
- Use the handle ② to pull the drop down bed to the desired position (but no further down than it will go).
- Hook the ladder into place above the metal rail ⑤ or on the handle ② (model-specific).

- When sleeping, always clip the netting that protects you from falling out ③ into place (located underneath the mattress).
- Before driving, return the drop down bed to its original upright position and lock it into place.

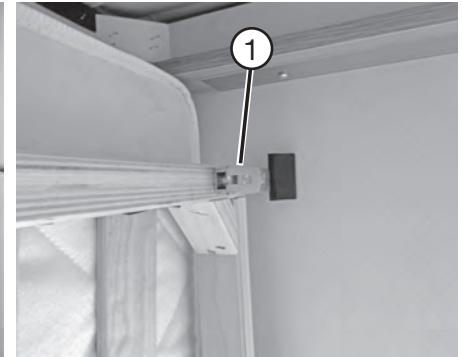


Maximum load for the drop down bed: 200 kg



When returning the drop down bed to its storage position, ensure that the fabric facing on the sides ④ does not slip out and behind the bed, where it would get caught in the mechanical system.

When the motor home is not in use, lower the alcove bed at least halfway or remove the mattress from the drop down bed to ensure there is enough air circulation in this area of the vehicle.



Children's beds

Children's beds

Windows next to bunk beds can only be opened slightly to effectively prevent children from falling out.

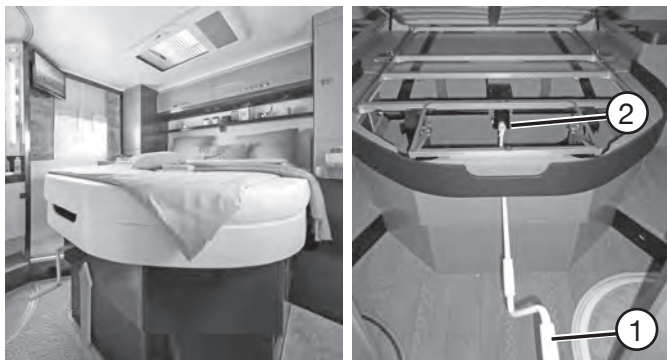
In model A65 GM, the lower bed can be folded up so as to use the space as a garage.

- Looking from the garage door, fold up the slatted frame and mattress together and let the catch ① click into place.
- To fold them back down, push the catch ① open and fold the bed down carefully.



The children's beds are not suitable for unsupervised use by children under the age of six. Be careful when using the upper bed for small children, as there is a danger that they may fall out. Never leave small children unattended in the motorhome.

The permissible maximum load for the upper bunk bed is **100 kg**.



Adjusting mechanism for the queen-sized bed

Queen-sized bed, height adjustable* (T70 GQ/T70 HGQ)

In order to be able to move more freely around the queen-sized bed, we recommend that the bed is lowered. It is easier to get in and out of the bed when it is in the upper position.

Raising and lowering the queen-sized bed

- Insert the hook on the supplied handle ① into the notch beneath the bed frame.
- Secure the hook in the eyelet ②, then turn the handle ① clockwise to raise the bed until you feel a significant resistance.
- To lower the bed, carry out the procedure above in reverse.

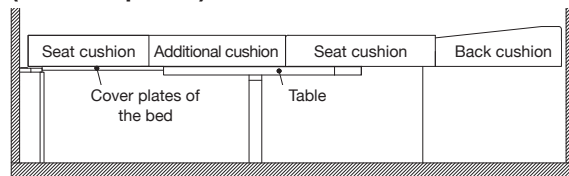
6.6 Rearranging the cushions



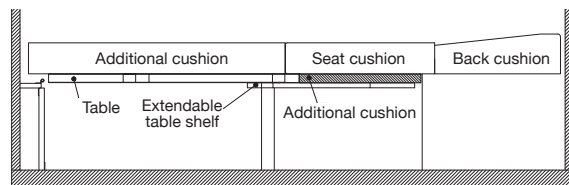
The A60 GF/V65 GE models cannot be converted as the seating arrangement has not been constructed to enable this.

Motor homes with overcab beds cannot be converted.

Cross-sectional view of how to rearrange the cushions in all Optima models with an L-shaped seating arrangement (* /model-specific)

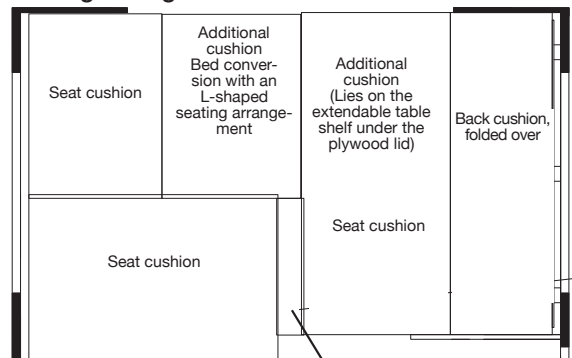


Cross-sectional view of how to rearrange the cushions in all Optima models without an L-shaped seating arrangement (* /model-specific)



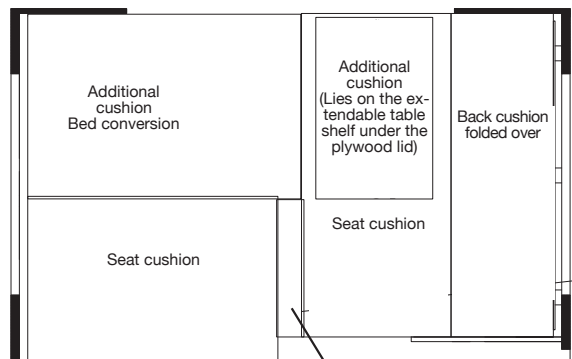
Bird's-eye view of how to rearrange the cushions in the Optima models

Rearranging the cushions Optima T65 FL with an L-shaped seating arrangement



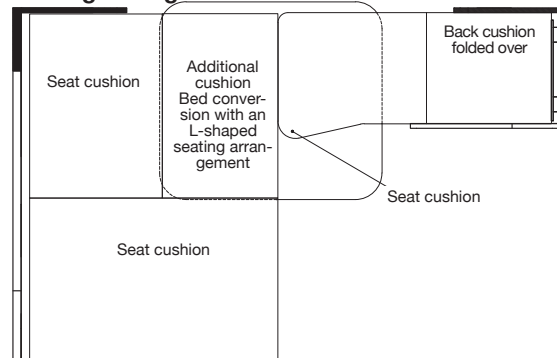
Additional cushion
Bed conversion

Rearranging the cushions Optima T65 FL



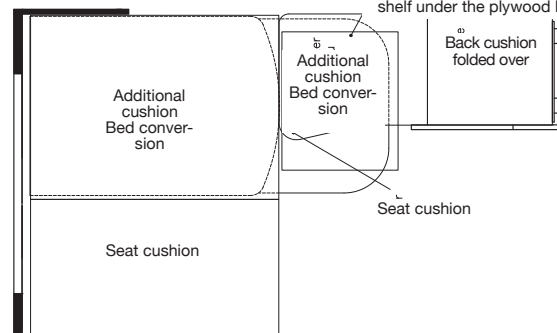
Additional cushion
Bed conversion

Rearranging the cushions Optima T65 GE with an L-shaped seating arrangement

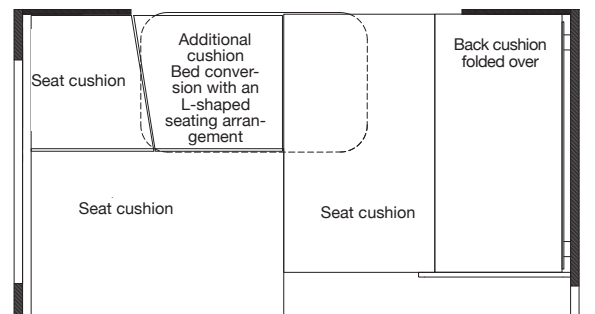


Rearranging the cushions Optima T65 GE

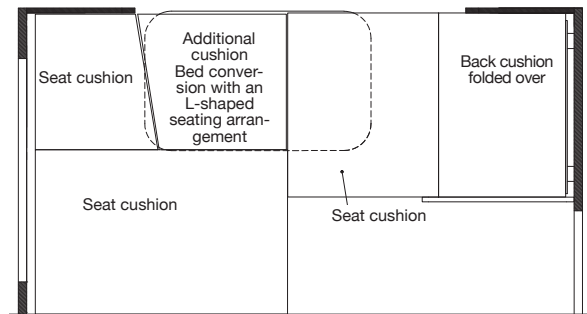
(Lies on the extendable table
shelf under the plywood lid)



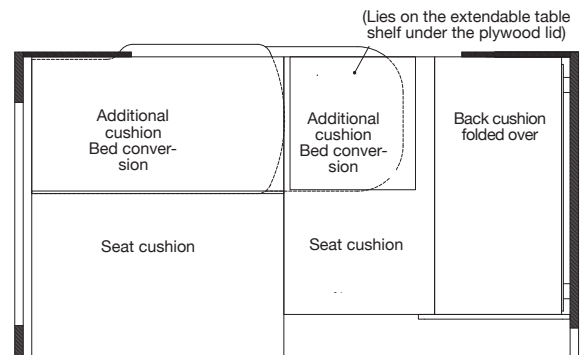
Rearranging the cushions T70 E / T70F with an L-shaped seating arrangement



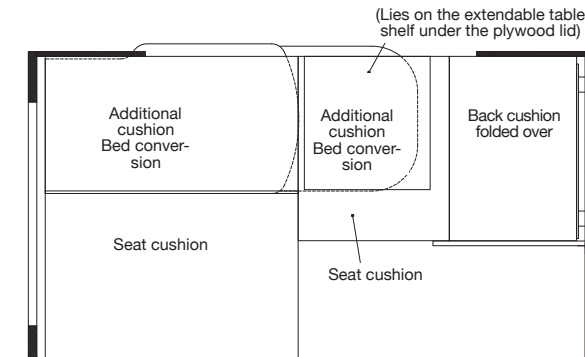
Rearranging the cushions Optima T70 GE with an L-shaped seating arrangement



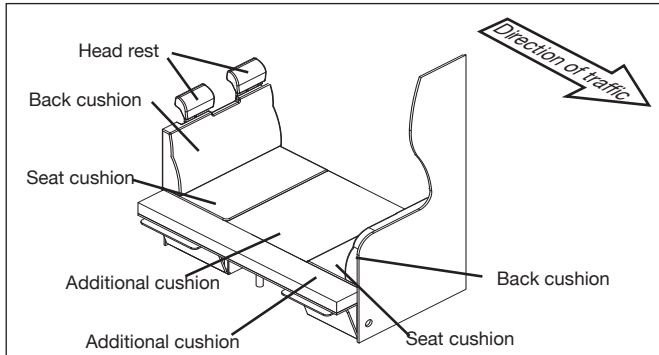
Rearranging the cushions Optima T70 E / T70 F



Rearranging the cushions Optima V65 GF / T70 GE

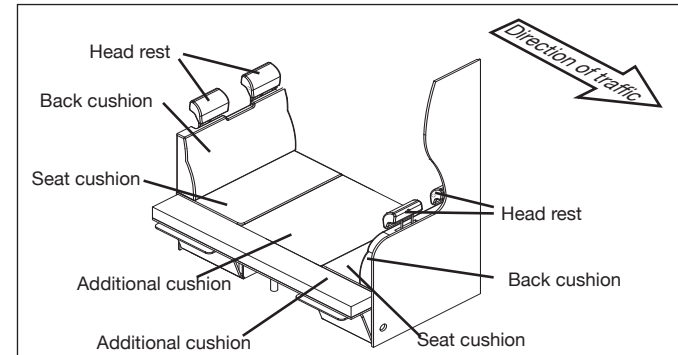


Rearranging the cushions Siesta A65 GM / A70 GM without additional seat belts

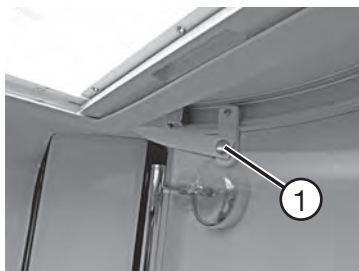


1. Hook the table into the lower guide rail (**see 6.4 Tables**).
2. Fold up the extensions of the bench seats. (**see 6.5**)
3. Place the plywood panel over the extensions. Use the additional mounting foot to support the panel in the middle.
4. Place the additional cushion on the table top.
5. Place the additional cushion on the plywood panel.

Rearranging the cushions in the A65 GM / A70 GM



1. Hook the table into the lower guide rail (**see 6.4 Tables**).
2. Fold up the extensions for the bench seats (**see 6.5**)
3. Place the plywood panel over the extensions. Use the additional mounting foot to support the panel in the middle.
4. Place the additional cushion on the table top.
5. Place the additional cushion on the plywood panel.



Lock on rounded/shower screen



Lock on shower screen in compact bathroom

6.7 Washroom

Fixed shower doors

The washroom has been fitted with a fixed shower door.

Preparation

- Release the locks ① on the shower doors or turn them to the side.
- Connect the rounded doors and the folding door (if applicable) in order to create a separate shower cabinet.



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

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



Retractable clothes line

Clothesline (Optima model only)

The Optima series is fitted with a retractable clothes line in the washroom.

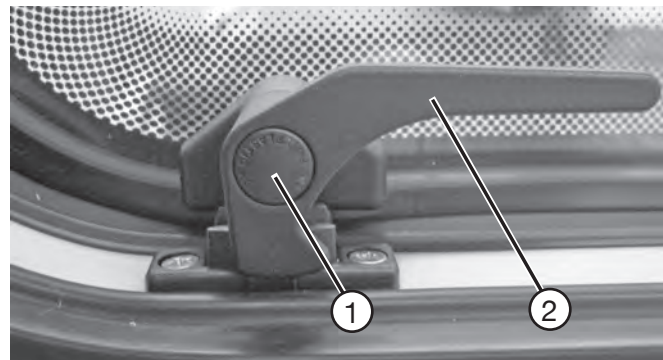
**Hook****Retainer**

- To extend the clothesline, pull out the hook ① and hook it into the retainer ② on the opposite wall.
- To retract, release the hook ① from the retainer ② and slowly guide it back to its original position.



When driving, do not hang anything on the clothesline. We recommend leaving it in its original position whenever driving.

The maximum permissible load for the clothesline is 4 kg.

**Window catch**

6.8 Windows



All of the window catches ① on the long bottom edge of the window have lock buttons. To open these window catches ① press the lock button. Window catches located on the vertical edge of the window do not have lock buttons. Various types of window catches have been fitted to the vehicle.

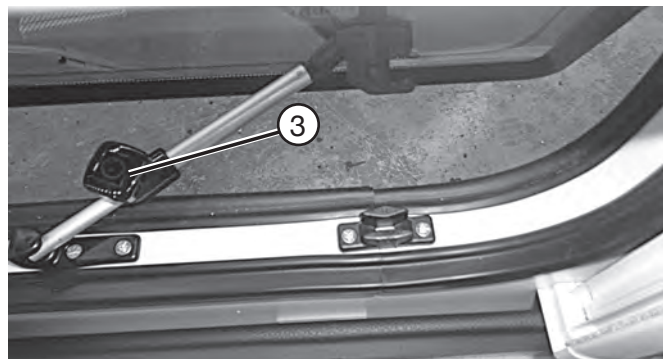
Push out windows with locking stays

To open

- Turn the catch ② by 90°.
- Press the window catch outwards until you hear it click. The window will automatically remain in this position. The size of the opening is adjustable in several stages.

To close

- Lift the window to the fully open position to unlock the window stay and allow the window to come back down.
- Close the window.
- Turn the catch ② to the original position so that it clasps behind the brackets and pull the pane into the seal.

**Fully adjustable window stays****Fully adjustable window stays****To open**

- Turn all latches ② by 90°.
- Press the window latch outwards with your hand until it is open as far as you would like. Then use your other hand to tighten the turn screw ③ until you feel the resistance and the window is held in place.

To close

- Loosen the turn screw ④ to allow you to close the window.
- Turn all latches back to their original position so that they clasp behind the brackets and pull the pane into the seal.



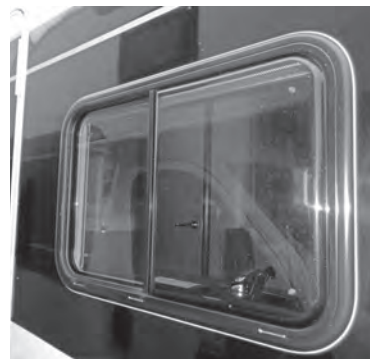
Closed



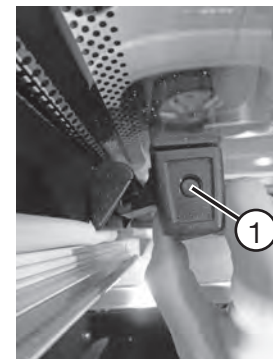
To air



Apart from the open and closed positions, the window latches can also be locked in a middle position to allow some airing.



Sliding kitchen window



Lock on sliding window

Sliding window in the kitchen* (Siesta De Luxe model with framed window*)

To open

- Press the lock ① together and push the window open as far as it will go.

To close

- Push the window shut until the lock shuts firmly into place in its original position.



As added protection against falling out, the windows by the children's beds can only be opened slightly.

Windows must be shut while driving.

Never use de-icing spray or an ice scraper for the windows on the motor home, doing so could damage the plastic window.



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



Blind/fly screen

Blind/fly screen (Optima Ontour Edition)

To close the black-out blind

- Use the handle to pull the plissé up to the desired position and then let go. The blind remains in this position.

To open the black-out blind

- Use the handle strip to pull up or down lightly on the black-out blind. The blind rolls upward automatically.

To close the fly screen

- Pull the fly screen completely down with the handle and let go. The screen remains in this position.

To open the fly screen

- Pull the fly screen slightly down with the handle and then guide it upward. The screen rolls upward automatically.



Do not let the blind or the fly screen retract on its own, keep hold of it!



Do not leave the blinds closed over a longer period of time. Should a blind lose its tension over a period of time, use a flat screwdriver to retighten the tension spring on the blind. Insert the screwdriver and turn it clockwise one or two revolutions.

Check the tension and repeat this process until the desired tension has been reached.



Overstretching the blind can permanently damage the retracting spring and impair this function.



Sunshade and fly screen, pleated

Blind/fly screen

Blinds and fly screens are integrated in the window blind frame and are fully adjustable.

To close

- Move the handle for the pleated blind ① or the catch for the pleated fly screen ② slowly and evenly to the desired position.

To open

- Push the pleated blind up slowly and evenly.

To connect the blind and fly screen together

- Pull the pleated blind down slowly and evenly, then pull the fly screen to meet it in the desired position.



Overcab roof window

Skylight

The overcab roof windows have integrated blinds that can be pulled to close them.



If the vehicle is not in use for a long period of time, the sun shade must be opened to prevent heat from building up inside the vehicle.

To open

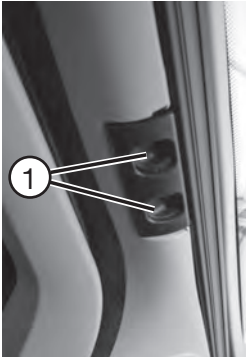
- Turn the catches by 90°.
- Press the window catch outwards until you hear it click. The window will automatically remain in this position. The size of the opening is adjustable in several stages.

To close

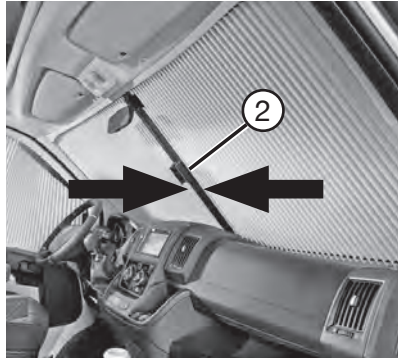
- Raise the window slightly so that the window stay unlocks.
- Close the window.
- Turn the catch to the original position so that it locks behind the brackets and pull the pane into the seal.



The roof window must be closed while driving.



Cab blinds



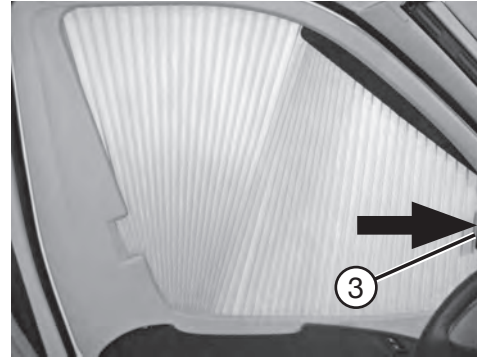
6.9 Blind system for driver's cabin *

The blinds must only be closed when the vehicle is standing and the engine has been turned off. Before starting your journey, you must fold up the entire system and lock it.

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



The blind system must not be used as a sunshade or closed while driving.



Cab door blind

Front system

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

Side windows

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



Thermal curtain

6.10 Thermal curtain for driver's cab*

To install

- There is a cover flap along the top edge of the curtain that must be pushed between the headliner and the sun visor.
- Fasten the pushbuttons to their counterparts on the B-pillar. This ensures that the curtain is closed tightly and has sufficient support.



Before driving, the thermal curtain must be entirely removed from the driver's cab and stored in the vehicle.



The thermal curtain has a flap that enables you to reach the radio and the ventilation. The flap is closed by means of a magnetic lock and a button to hold it closed.

If there is no frost outside and you are in a bit of a hurry, it is enough to simply set up the curtain and push the cover flap between the headliner and the sun visor. Then there is no need to fasten the sides of the curtain.



Footwell insulation in driver's cab

Footwell insulation



Follow the manufacturer's instructions and place the trough-shaped footwell insulation in the footwell of the driver's cab.



The footwell insulation must be completely removed from the driver's cab before driving.

6.10 Skylight

Safety instructions



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

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

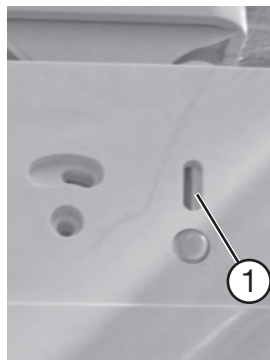
Large roof bonnet



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



Large roof light



Control pin

To open

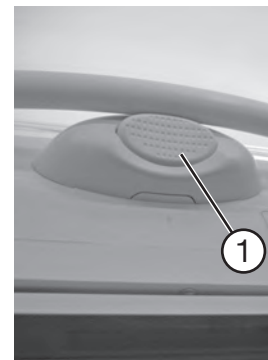
- Fold the winding handle out from its parked position and in to the user position by pulling it out. Turn the handle clockwise to open the top to the desired position. When you have reached the maximum opening angle you will feel the resistance.

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 skylight is shut. Then turn the handle only so far until you can fold it into its parked position. To be locked securely, the handle must be folded into the parked position.



Small roof light



Locking knob

Small roof bonnet**To open**

- This roof light can be opened in the opposite direction to traffic. Press the locking button ① and use the adjusting handle to move the roof bonnet to the desired position.

To close

- Guide the adjusting handle along the guide rail and close the roof light. The top will lock when the lever hooks into place behind the locking button ①.



The maximum speed is 130 km/h, going faster will create wind noise and may cause damage, depending on the superstructure or place of installation.

Fly screens and blinds (plissés)

Both blinds are fully adjustable by sliding them horizontally from side to side.



Captains Chair

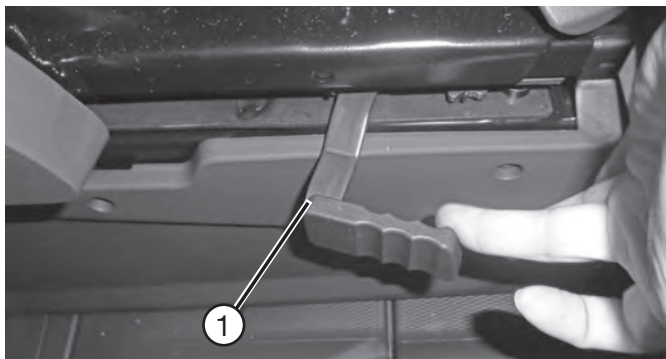
6.12 Seats in the driver's cab



All of the motor homes (**Exception A65/A70 GM Siesta**) have rotating driver's and passenger's seats, which can be used as additional chairs in the habitation area. To operate these rotating seats, please refer to the operating instructions for the base vehicle.



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



Lever for turning the seats

The lever ① for turning the seat is located on the inner edge of the seats in the driver's cab.

Rotating seats

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



Side seating area in the habitation

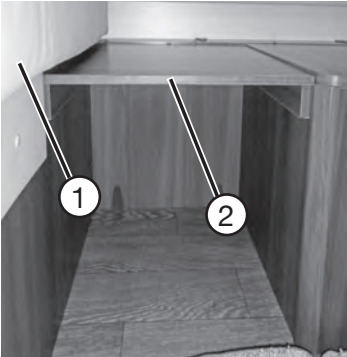
6.13 Construction of the seats

Cushion fastenings

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



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



Converting the L-shaped seating arrangement

Converting the L-shaped seating arrangement *

To use the outer seats in models with an L-shaped seating arrangement (only Optima De Luxe), it must be converted before you drive.

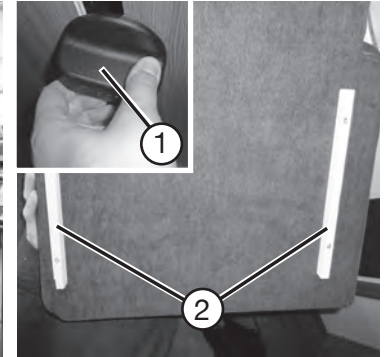
- Remove the seat and back cushions.
- Fold the lid ① of the seat bench up.
- Pull the entire insertion plate ② up and out.
- Lower the lid of the seating bench, replace the seat and back cushions.



When converting back to the original arrangement, ensure that the insertion plate ② is placed securely in the holding bracket and cannot slip out.



Original position



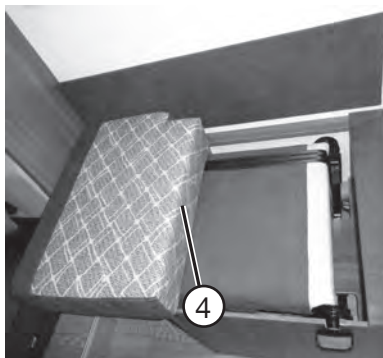
Adjusting knob and guide rails

Convertible face to face seat group (Optima De Luxe T70 GQ and T70 HGQ only)

Before each journey with your Hobby motor home, the two folding seats (integral seats) in the face-to-face seating area must be put in the travel position.

To convert into a bed

- Remove the seat and back cushions.
- Turn the adjusting knob to the right and hold it there firmly ①.
- Now bring the folding seat to an upright position and then release the adjusting knob.

**Folding in the seat**

- Place the cushions in such a way that the guide rails ② rest on the frame of the seat and the recess for the upholstery points in the direction of the safety belt ③.
- To convert the seat back into a bench, turn the adjusting knob once again to the right, hold it firmly, and move the backrest of the folding seat forwards until it lies horizontal in the frame of the seating arrangement ④. Release the adjusting knob. Then put the seat and back cushions into place.

**Folding seat in travel position****Seatbelts**

6.14 Seatbelts in the motor home

The seating arrangements are fitted with safety belts.



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

Buckling the seatbelt

Do not twist the seatbelt.

- Grasp the tongue and insert it in the lock of the seatbelt until you hear it snap shut.
- Guide the upper part of the seatbelt over your shoulder and diagonally across your chest.
- The lower part of the seatbelt fits across your hips.

Unbuckling the seatbelt

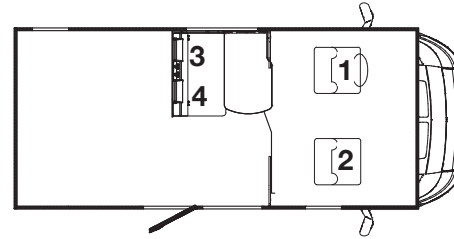
- Press the button on the lock of the seatbelt to unlock the tongue.



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

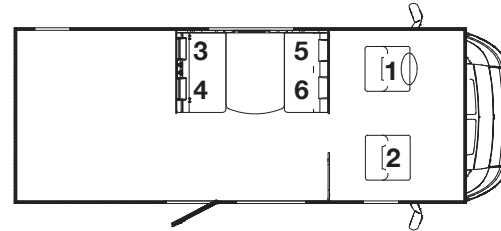
6.15 Overview of the seating arrangements

A60 GF



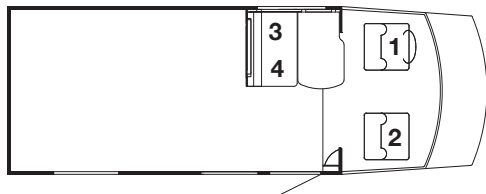
Seats 1 - 4: may be used while driving.

A65 GM / A70 GM



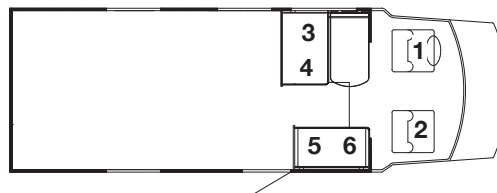
Seats 1 - 6: may be used while driving.

V65 GE



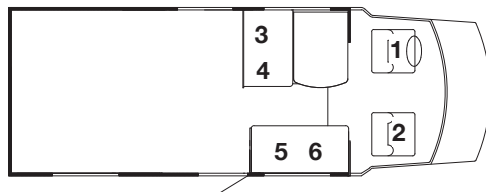
Seats 1 - 4: may be used while driving.

T70 E / T70 F



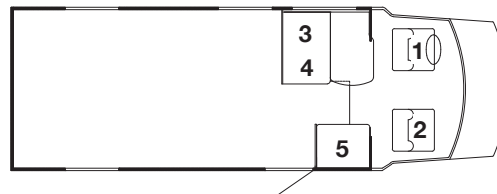
Seats 1 - 4: may be used while driving.
Seats 5 - 6: must not be used while driving.

T65 FL / T65 HFL

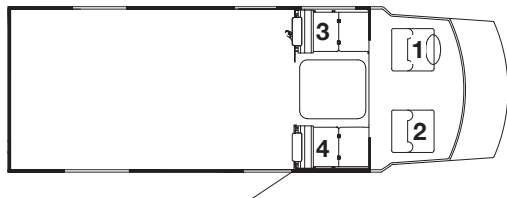


Seats 1 - 4: may be used while driving.
Seats 5 - 6: must not be used while driving.

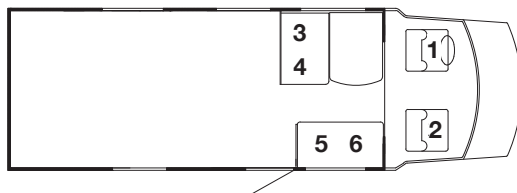
T70 GE / T65 GE / V65 GF



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

T70 GQ / T70HGQ

Seats 1 - 4: may be used while driving.

T75 HF / T75 HGE

Seats 1 - 4: may be used while driving.

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

Chapter 7: Electrical Installations

7.1 Safety instructions

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



- Do not remove the signs on electrical components giving safety instructions or danger warnings.
- The installation spaces around electrical equipment such as distribution fuse boards, electric power supply, etc., must not be used as additional storage spaces.
- Smoking and naked flames are forbidden when checking electrical equipment.
- Incorrect use handling of the vehicle's electrical system may endanger your own life as well as that of others.
- To connect to an external 230 V mains connection, use only a weather-proof, 3-wire extension cord with a CEE plug and connector.

7.2 Elements of the electrical system

Advice and instructions

Important

- The motor home's electric system should preferably be inspected within a period of less than three years. If the motor home is used frequently, an electrical engineering specialist should inspect the electric system every year.
- Any changes to the electrical installations must only be carried out by a professional electrician.
- Disconnect the battery and switch off the 230V mains before carrying out any maintenance work.

Batteries

- Please observe the battery manufacturer's operating instructions.
- The acid in the battery is poisonous and corrosive. Avoid contact with eyes and skin.
- The completely discharged battery must be recharged for at least 24 hours. The battery may be damaged if it has been discharged for more than 8 weeks.
- Avoid letting the battery fully discharge (go flat), as otherwise the performance and lifetime of the battery will be significantly reduced.

- Check the level of the battery fluid regularly (acid batteries); AGM-batteries require no maintenance, but must be continuously recharged.
- Check that the battery clamps are secure and remove any layers of oxide.
- Turn off the battery circuit breaker (red key) if the ancillary battery is not being used for a longer period of time (2 weeks or more). The standby current used continuously by some electrical devices discharges the habitation battery. Even if the battery circuit breaker (red key) is turn off, the battery can still be charged by the battery charger (trickle charging).
- Should the battery be removed, isolate the positive terminal (to prevent short circuits when turning on the motor).

Battery charger

- The charge operates by means of a sensor (TFT Control Panel) or using IU₁ U₀ charging technology, provided the sensor has not been calibrated or the CIBUS system is offline. In the **Optima Outour Edition model**, the standard charger (standard control panel) operates solely using IU₁ U₀ charging technology. Please refer to **Chapter 7.3, sub-section “Battery Management”**, to calibrate the sensor.
- In the case of misuse the guarantee and manufacturer’s liability will no longer apply.

- The air vents in the dashboard must not be covered up or closed. Ensure that there is sufficient ventilation.

Tank probes

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

- To prevent scaling, never let the water stand too long in the tanks, especially in the waste water and waste tanks.
- Flush the tanks regularly.

230V automatic circuit breaker with an earth leakage circuit breaker

The 230V automatic circuit breaker supplies and protects the 230V devices.

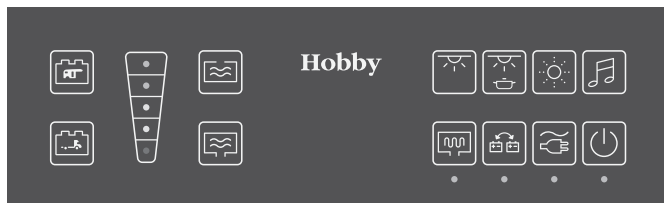
- To switch off the 230V power supply in the entire system, set the 230V automatic circuit breaker to “0” (OFF).

Fuses

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

7.3 Control panel

Standard control panel (Optima Ontour Edition)



The standard control panel is located inside the van above the entrance door. Use this control panel to control the lights or to display various filling levels and the status of the batteries.

Display icons on the standard control panel



Charging the leisure battery

This icon indicates whether the leisure battery is being charged while driving. If the status LED under the icon is green, the generator is charging the battery.



Radio/SAT-nav device

- Briefly press the button to switch the radio/SAT-nav on and off.



Electric waste water tank heating system*

- This key is not assigned in the Optima Ontour Edition.



Power plug function

The LED light under this icon turns green as soon as the vehicle has been hooked up to the 230V mains supply.

Display buttons on the standard control panel

The following display buttons give information on the filling levels of the fresh and waste water tanks as well as the voltage of the ancillary and starter batteries. The three traffic-light colours are used to give explicit information. Press the desired button to let the corresponding display light up.



Voltage of the leisure battery



Voltage of the engine battery



Fill level of the fresh water tank



Fill level of the waste water tank



Master switch

Battery display/Filling level indicator

Fresh and waste water tanks

Battery		Fresh water	Waste water
Green > 13,5V		Green ⁴ / ₄ full	Red ⁴ / ₄ full
Green 12,6V - 12,8V		Green ³ / ₄ full	Red ³ / ₄ full
Yellow 12,3V - 12,5V		Yellow ¹ / ₂ full	Yellow ¹ / ₂ full
Yellow 11,6V - 12,2V		Yellow ¹ / ₄ full	Yellow ¹ / ₄ full
Red < 11,5V		Red empty	Green empty

LED status on the master switch

Green light on:

in full operation

Orange light on:

the entire light control has been deactivated

No light on:

all of the components that are controlled using the standard Control Panel have been deactivated, except for the steady electrical devices (e.g. Heating, refrigerator control, water pump, etc.)



Please refer to the descriptions for the TFT Control Panel for the functions of the master switch.

TFT-Control panel



The system consists of control electronics, a TFT control panel with a keypad and several peripheral panels. It enables you to operate the different lights and several 230 V devices. Furthermore, various kinds of information and measured values are shown on the TFT display.



Functions of the main switch

- Once the system is in operation, press the main switch briefly to turn all of the lights off. All 12V steady electrical devices (e.g. water pump, refrigerator control, heating and entrance step) will remain activated. The devices that were previously switched on are stored in the system; pressing on the main switch reactivates them. This also resets the degree to which those lights currently dimmed can be altered.

- Pressing the main switch for at least four seconds while the system is switched on will turn off not only the currently active devices, but also the entire 12 V system (this also affects the toilet flush and the water pump). The current operating settings will not be saved.



If the vehicle's motor is running, the refrigerator will operate automatically on 12V, i.e. it is not necessary to press the main switch on the Hobby control panel. The selector switch for the refrigerator must be set to 12V operation. All other 12V electrical devices will only operate on the habitation battery if the main switch has been activated. (Exceptions: the heating system, Ice Ex, DuoControl remote control, gas alarm, electric entrance step, electric tank heating system, HobbyConnect and electric ignition for gas cooker.)



Wall lights / lighting in the seating



Ceiling light

- Briefly press the corresponding button to switch each lamp on and off. Press longer on the button to regulate how brightly you want the lights to shine. The brightness you set will be saved; when the lights are switched on again, the brightness you originally set will also be switched on again. If the system's power supply is interrupted, the wall light will shine on full the first time you switch it on. If the intensity has been reduced to a minimum by dimming the lights, the lamp

will switch itself off. Since this setting is saved, the dimmer must be reset to the brightest level before the lamp will shine again. For technical reasons, if the lamp is set to the very lowest dimmed level, the light may flicker. If this bothers you, please increase the brightness of the light.



In motor homes with two ceiling lights, one light can only be switched on separately by using a switch fitted on the light.

The wall lamps themselves must be switched on before they can be controlled by using the control panel.

In the **Optima Ontour Edition series**, there is no extra key for switching the wall lights / lighting in the seating arrangement on and off. Use the master switch for this purpose, or the switch located directly on the lamp.



Memory buttons

- This key is used to save and recall the settings of individual lights. Press briefly on the desired memory button to recall the last saved settings of all switchable 12 V lights. Press longer on this button to save the setting of a light. These memory buttons are not used to save the settings of the 230 V electrical devices (e.g. hot-air heating).



These keys are not on the standard Control Panel.



Awning light

- Press this button to switch the entrance light on and off. It is not possible to switch this light on when the engine is running. The light will turn off automatically when the engine is started.



The awning light must be switched off when the van is on the road.



Kitchen light

- Press briefly on the button to switch the kitchen light as well as the spots on and off.



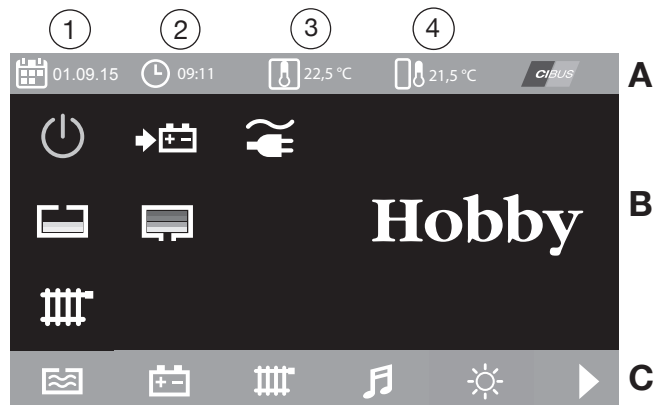
LED ambient lighting

- Briefly press the button to switch on the indirect light. Press longer on the button to regulate how brightly you want the lights to shine (only in the sleeping area).



This key is not assigned in the **Siesta/Optima Ontour Edition series**.

Main menu on the TFT control panel



Fixed header A

Permanently displays:

- ① date
- ② time
- ③ inside temperature
- ④ outside temperature

Main display B

The current status (on or off) and values for the fitted appliances can be seen as icons on this screen.

Stand-by Mode

- The display dims slightly if no function has been carried out for a period of one minute.
- The display switches itself off and the screen is black if no function has if nothing has been pressed for a period of ten minutes.



On/Off switch for power supply

If this icon is shown in green, the 12V sockets and the water pump are activated. If the icon is white, the light control has been deactivated. If the main switch is pressed for approx. 4 seconds, the 12V system switches itself off and the icon appears in orange.



230 Volt

Shows that the motorhome is connected to the mains.



Alternator used for charging

The motor has been switched on; the habitation and starter batteries are connected in parallel.



Warning: motor and mains connection

This warning will first appear 3 times and must be acknowledged. The warning will not appear again when the defect has been fixed. Otherwise, the warning will continue to be shown until the vehicle has been switched off or the mains hook up lead has been pulled out.



Battery management

red = malfunction



Battery being charged



Battery being discharged



Truma heating (series) or Alde hot water heating* (depending on what has been fitted to the motorhome.)

red = malfunction, green = in operation



The separate, manufacturer's own control panel for the Truma heating system must be switched on so that the TFT control panel recognizes the device.



AUX* Ice-Ex (only with optional extra DuoControl)

If this icon is shown in green, the function being looked at is operating.



Fresh Water Tank

red = empty



Waste water tank

red = full



Electric waste water tank heating*

(Alde hot water heating system function)

If this icon is shown in green, the function being looked at is operating.

**Air-conditioning system***

green = in operation

red = malfunction

Current mode:

Cooling



Heating



Automatic



Air circulation

**SAT-system***

green = in operation; satellite has been found

orange = antenna is turning

**HOBBY Connect***

green = in operation; active connection

orange = system is starting up or shutting down

Soft key menu bar C

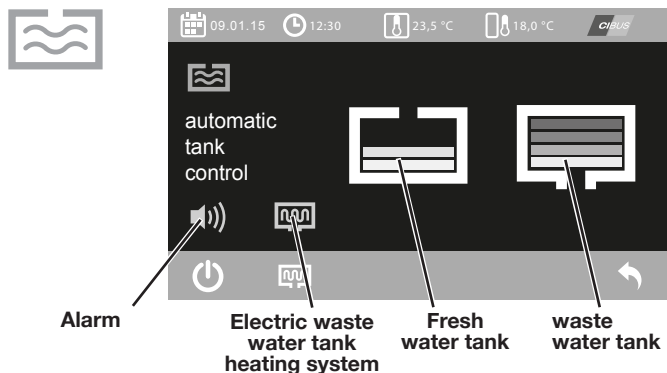
This is used to access the individual menus of the separate appliances or systems fitted.

Soft keys

The “soft keys” are used to carry out the commands displayed in the lower menu bar (C). For example, they enable access to submenus, increase or reduce the values shown, or represent the Return button (“Back” function).

Control knob

Like the “soft keys”, the control knob enables easy navigation between the individual menus. Turn the wheel to select the corresponding menu item or display value shown to the left, or to increase or reduce values. Press the wheel in to jump to submenus or confirm a value that has been changed. Selected functions / icons are displayed in yellow. Values that require changing are highlighted in white.



Fresh and waste water tanks

The filling levels of the fresh and waste water tanks can be seen here. The alarm can be activated (green) above the left soft key (On/Off icon). If the alarm has been activated, a beep will go off when the tank is being filled. If the alarm has been activated, a beep will go off when the fresh water tank is being filled. These beeps will be sent at increasingly shorter intervals while the fresh water tank is filling up. The filling level of both tanks will be automatically updated on the control panel every few seconds.

Exit this menu by using the “Back” function; otherwise, after one hour, it will automatically switch back to the main menu on the control panel.

Electric waste water tank heating system* (Alde hot water heating system function)

If the motor-home has been equipped with an Alde hot water heating system*, the waste water tank will be heated electrically. The heating function is activated and deactivated by means of the soft key.

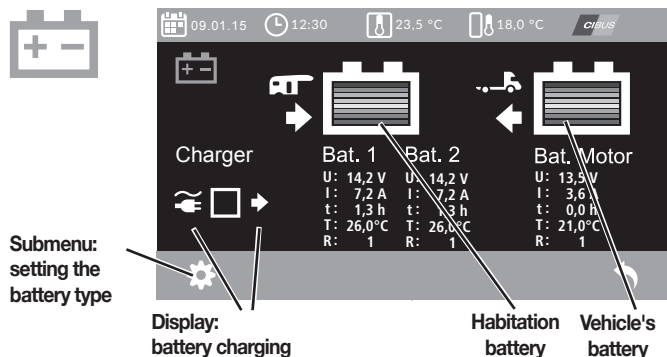
This icon is displayed in green in the submenu when the function is activated. The heating system will then begin to operate automatically when:

- the temperature outside drops below 5° C,
- and either the 230V mains connection has been hooked up or the engine has been started.



The icon on the start display will only turn green when the factors listed above apply and the heating system has begun to operate.

This function is only visible when the mobile home has been equipped with an Alde hot water heating system.



U = current charging voltage

I = current charging/discharge current

t = remaining time to charge/operate the battery in hours

T = battery temperature

R = calibration check of the battery sensor



The temperature of the battery must not exceed 50° C. A warning message will be sent if the temperature exceeds 50° C and the battery will be shown in red in the main menu on the control panel. If the battery is overheated, it cannot be charged. Should this warning occur repeatedly, the motor home must be taken to an authorised specialist.

Battery management

The current status of the batteries is displayed in the battery menu:

- **Bat. 1** = habitation battery
- **Bat. Mot.** = vehicle's battery (starter battery)
- **Bat. 2** = additional battery* (displayed only if the mobile home has been equipped with an additional battery)

The charging status is shown in the battery icon; the example shows a fully charged battery.

The value "R" shows the calibration check. If "1" is output, the sensor will be calibrated (target state). If "0" is output, the measured values may deviate slightly and the sensor should be recalibrated.

Normally, calibration is carried out automatically, whereby neither the charging nor the discharge current may be more than 150mA.

Manually calibrating the sensor

The system can be calibrated manually if no electrical devices have been switched on in 12V operation. Turning the battery circuit breaker switches off the electronics in the habitation (see item: battery circuit breaker). Now the sensor can cali-

brate itself. This process takes approx. three hours. If the battery circuit breaker is then switched on again, a value of “1” should be shown on the display.



During calibration, the vehicle must not be hooked up to the 230V mains (the charger must not charge the battery during calibration). Furthermore, the vehicle must not be started while the sensor for the starter battery is being calibrated.

Charger (charging the battery)



Battery is charged when the charger is connected to the 230V mains.

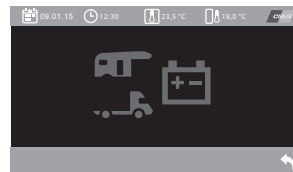


Battery is charged via the generator. Motor has been started. Battery charger is not activated.



If the icons for the “Charger” appear, the motor home is connected to a 230V mains connection and the battery charger was recognised: the battery will be charged. Please Note: the vehicle must not be started while the sensor for the starter battery is being calibrated.

Error messages

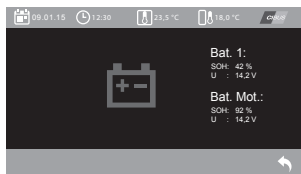


Warning message: undervoltage

This warning appears when a voltage of 10.8V or less is measured for a battery for a duration of at least 3 minutes.

The icon for the battery, habitation or starter battery in question appears in the menu.

The message can be acknowledged; the battery should be charged immediately.



Warning message: age of battery (SoH = State of Health)

This warning appears when the original capacity of a battery drops to a value of less than 50%.

To enable this message to appear, the battery sensors must be calibrated.

The message can be acknowledged; the battery in question should be replaced.



Setting the battery type

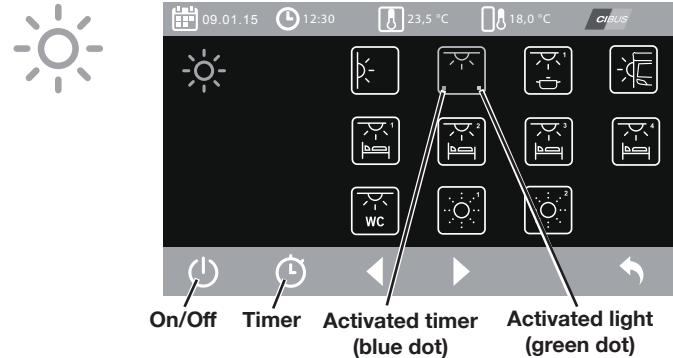
The type and capacity of the batteries have been set by the manufacturer. These settings must be changed when the type of battery is changed.

Use the arrow keys or the control knob to select the desired value. Increase or decrease it by means of the +/- functions. If the control knob is used to change a value, the new value must be confirmed by pressing on the control knob.



If the set values do not match those of the battery that was installed, incorrect values will be displayed in the battery management. Setting the type of battery has an effect on the charging behaviour; therefore, this must be set correctly. The type of battery can vary, depending on the model.

Exit this menu by using the “Back” function; otherwise, after one minute, it will automatically switch back to the main menu on the control panel.



Lighting system

Select the desired light in the menu for the lighting system by means of the jog wheel or the arrow functions (display: yellow). Press on the jog wheel or the left soft key to switch the corresponding light on or off (activated lights are displayed in green).

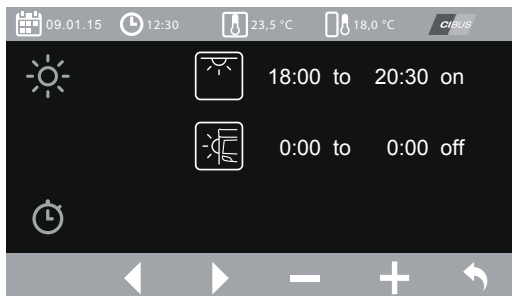


The lights for bed 3 and bed 4 are only assigned in the drop down bed and overcab models models.

Access the submenu for programming the timer by means of the timer function. Only the ceiling light (top row) and the awning light (bottom row) can be operated using the timer.

blue dot = timer activated

green dot = light switched on



The selected light to be switched on by the timer is indicated by a blue dot on the corresponding button.

Exit this menu by using the “Back” function; otherwise, after one minute, it will automatically switch back to the main menu on the control panel.

Programming the timer

Set the desired time by using the arrow keys or the control knob and press the “On/Off” function or the jog wheel to select it. Turn the jog wheel or use the “+/-” functions to set the time. Press the jog wheel again or use the “On/Off” function to confirm the set time.

Activating/deactivating the timer

The timer will only be activated if the function to the right is changed from “Off” to “On” (the way to do this is identical to programming the timer).

Deactivate the timer by setting the function from “On” back to “Off”.



Menu for heating system

The Truma Combi heating system is part of the motor home's standard equipment. As an optional extra, this can be replaced by a Truma Combi e-heating system (can be operated electrically) or an Alde hot water heating system.

The functions on the TFT control panel are practically identical for all three options. The standard Combi heating system is described below. Differences between this and the optional extras are indicated.



The TFT control panel can only be used to control the basic functions of the heating system. To use enhanced functions, the system must be controlled by the separate, manufacturer's own control panel.

Green icons indicate the functions that are operating.

The desired room temperature (in ° C), short-term increase in the amount of hot water for taking a shower (in ° C) and the type of operation (gas/electric*) are displayed in the menu for the Alde hot water heating system. The lower menu icon is shown in green when the heating system is in operation.

Next to this icon, the value

ON = on or

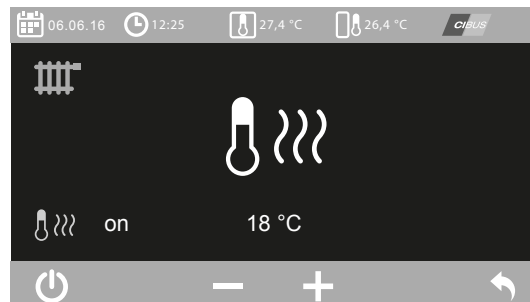
OFF= heating system is not in operation (white icon) is shown.

The heating system is activated or deactivated using the "On/Off" function in menu bar C.



If the "Off" function is used to switch off the heating, the settings that have been set will remain saved. If the "On" function is used to switch the heating back on, the functions last used will automatically reactivate themselves.

The icons for temperature and performance level as well as the info icon shown in menu bar C lead to further submenus by means of the soft keys or using the jog wheel to ,make a selection.

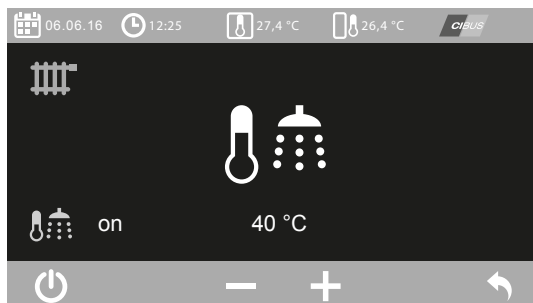


Setting the desired room temperature

In steps of 1° C from +5° C to +30° C



The Alde hot water heating system can be operated in steps of 0.5° C.



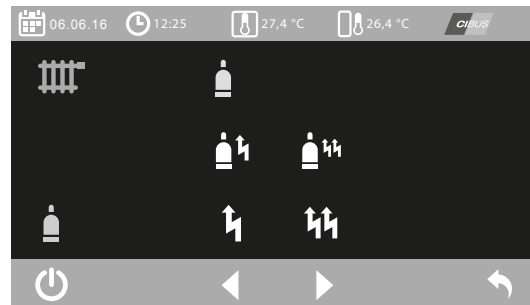
Short-term increase in the amount of hot water

Temporarily increases the hot water temperature from 40° C to 60° C if there is an increase in hot water consumption.



The Alde hot water heating system can be increased from 50° C to 65° C.

To change the settings, use the jog wheel to select the desired temperature (press on the wheel to highlight the value in yellow, enabling it to be changed). Use the “+/-” icons or turn the jog wheel to select the desired temperature.. Press the wheel to confirm the changed setting. Use the “On/Off” function to switch the hot-water heater on and off.



The menu shown above can only be selected for the Truma Combi e-heating system and the Alde hot water heating system:

Type of operation

Gas, mixed operation (gas+electric) or electric can be selected. If mixed operation or electric operation have been selected, the desired power setting must also be selected.

Truma: 1 lightning bolt = 0,9kW, 2 lightning bolts = 1,8kW

Alde: 1 lightning bolt = 1kW, 2 lightning bolt = 2kW and 3 lightning bolt = 3kW.)



From a power setting of 2kW or more, the mains hook up supply must have at least a 16 Amp fuse. Please speak to the person operating the camping site!

Use the arrow (menu bar C) or turn the control knob to select the desired type of operation (highlighted in yellow). Then use the “On/Off” function or turn the control knob to activate your selection.



Please refer also to the description of the heating system in Chapter 10 **Built-in-devices**.



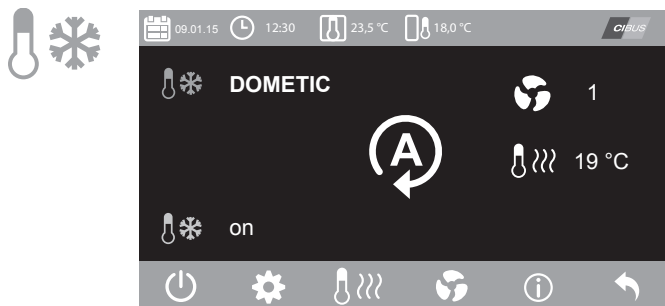
Info menu

Information on the device manufacturer is shown here.



Corresponding data has been stored for the Alde hot water heating system.

The submenus shift to the main menu by means of the “Back” function. The main menu shifts to the main menu on the control panel by means of the “Back” function. After one minute, all menus automatically shift to the main menu on the control panel.



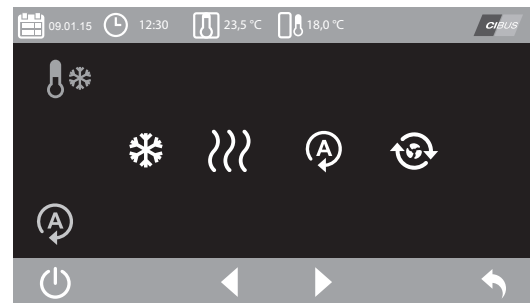
DOMETIC* air-conditioning system

The selected type of operation, fan level and desired room temperature are displayed in the menu for the Dometic air-conditioning system. The lower menu icon is shown in green when the air-conditioning system is in operation.





Above, menu bar

ON = on or

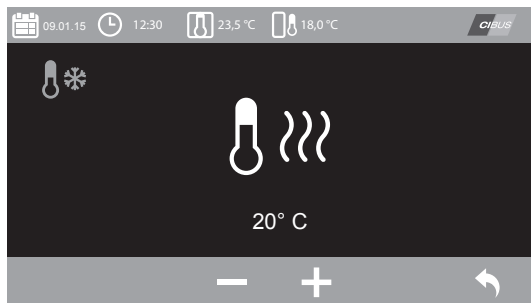
OFF = air-conditioning system is not in operation (white icon) is shown.



Submenu: Selecting the type of operation

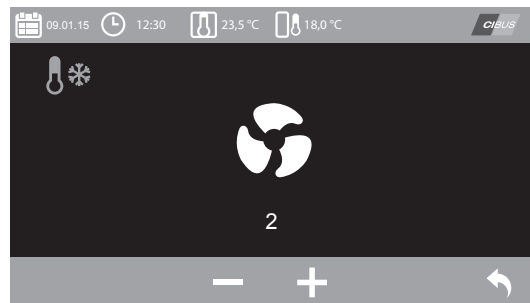
-  **cooling**
-  **heating**
-  **automatic mode**
-  **air circulation mode**

The type of operation can be changed using the “+/-” soft keys on menu bar C or by turning the jog wheel. The new selection must be confirmed by pressing the jog wheel or by means of the “On/Off” soft key.



Setting the temperature

The desired temperature can be set here. This is not possible in air circulation mode, because neither the cooling nor the heating function are then active.



Setting the fan speed

Set the desired fan speed here (levels 1-3 and maximum ventilation). When in automatic mode, the ventilation will also be regulated automatically, i.e. it is then not possible to change the setting manually.

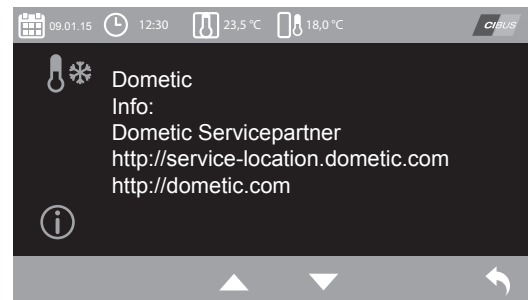


The fan level can only be selected manually for “Cooling” and “Air circulation”. For all other types of operation, the roof air conditioning system controls the fan automatically.

The settings can be changed using the “+/-” soft keys on menu bar C or by turning the jog wheel. The new setting is automatically applied after exiting from the submenu.



Please also observe the instructions in **10.7 Rooftop Air Conditioning**.



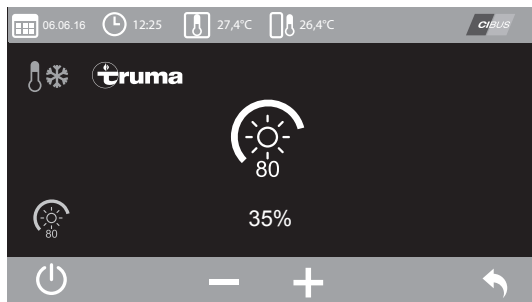
Info menu

Information on the device manufacturer is shown here.

The submenus shift to the main menu by means of the “Back” function. The main menu shifts to the main menu on the control panel by means of the “Back” function. After one minute, all menus automatically shift to the main menu on the control panel.



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



TRUMA* air-conditioning system

If a TRUMA air-conditioning system is subsequently fitted, it is also possible to select the submenu for adjusting the lighting.

Increasing or reducing the setting by means of the “+/-” function or the control jog wheel changes the brightness of the lighting integrated in the air-conditioning system. Press the jog wheel or use the “On/Off” function (left soft key) to confirm the new setting.

Exit this menu by using the “Back” function; otherwise, after one minute, it will automatically switch back to the main menu on the control panel.



Radio

Use the “On/Off” function to switch the radio on and off. If the radio is on, the icon is shown in green.

Exit this menu by using the “Back” function; otherwise, after one minute, it will automatically switch back to the main menu on the control panel.



AUX (to control the DuoControl incl. Ice-Ex*)

AUX is an external relay output that switches the Ice-Ex cartridge in the gas bottle box on and off.



The Ice-Ex cartridge must always be switched on manually using the TFT control panel.



If the motor home has been equipped with a remote indicator for DuoControl, the Ice-Ex cartridge can only be switched on and off via the remote control. It does not appear on the TFT control panel.



Display: current status

Satellite system KATHREIN*



In the **Optima Ontour Edition series**, the SAT system is controlled solely via the TV.

The current status of the satellite system is displayed on the bottom left of the main menu for the satellite system:

Current status

- parked:** antenna in park position (white icon)
- parking:** antenna in park position (orange icon)
- search:** antenna is set up and searches for satellite (orange icon)
- optimize:** antenna ready for operation, but optimised reception (green icon)
- on:** antenna is set up (green icon)
- idle:** emergency stop function has been pressed (white icon)

Next to the icon in the centre, the following is displayed on the right:



Position (Where the vehicle is physical)



Selected satellite

Functions of menu bar C:



Setting antenna up / in park position
(also via soft key or control knob)



Emergency stop function, set-up or park procedure is aborted



If a satellite update appears on the display, click on this softkey to confirm it.



Submenu: set position



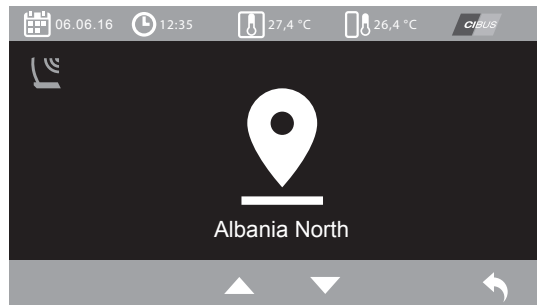
Submenu: set satellite



Submenu: information on device manufacturer



Back function



Submenu: set position

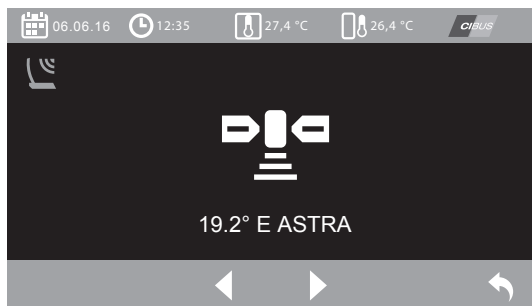
Countries that can be selected have been stored in the country list; regions that can be set are: North / Middle / South.



Setting the country combined with the region



Back



Submenu: set satellite

Satellites that can be selected have been stored in the satellite list.



Setting the satellite



Back



When exiting the menu, the antenna will automatically be set up and a search will begin for the indicated satellite.



Info menu

Information on the device manufacturer is shown here.

Error codes

Error code	Error name	Causes	To eliminate
01	No connection to turnable satellite dish	Defective coaxial cable or plug connection No power supply for turnable satellite dish Coaxial connections for input and output	A dealer can replace the cable or plug. Check whether the battery circuit breaker has been switched on, the battery is discharged or the 230V mains voltage is connected. The red master cable must be plugged into the "Input" socket.
02	Satellite not found	None unobstructed view to the satellite The motor home is located outside the satellite's footprint Heavy clouds	If possible, change the location or remove whatever obstructs the view. Change the search level. Select another satellite, e.g. "Hotbird" instead of "Astra" in northern and eastern Europe. During severe thunderstorms and periods of very dense clouds, the satellite cannot screen through the cloud cover.
03	Ignition signal supplied	The ignition signal ensures that the turnable satellite dish is retracted	Switch the ignition off.
04	Mechanical stop	The dish has hit an obstruction or is frozen. Not enough power to operate the servomotors. Antenna has lost its position.	Remove the obstruction; remove snow and ice from the dish; restart the system. Switch off other electrical devices. Charge the battery. Please have the satellite dish checked by a Hobby dealer and let them install any updates.
05	On-board voltage too low	Electrical devices that consume a great deal of energy reduce the total output.	Charge the battery and connect the 230V mains connection. Possibly switch off those devices (such as electric heating elements) that consume a great deal of energy.
06	Temperature of the system is too high	e.g. mechanical overload, environmental influences	Do not operate the antenna; allow the system to cool down.

Error code	Error name	Causes	To eliminate
07	No search transponder available.	Incorrect or manually modified channel list	Have the correct list installed. Your dealer can do this.
08	Revolving dish used otherwise	Antenna cannot be controlled by CI BUS, because another device is using the antenna “exclusively” (e.g. streaming).	Do not operate the antenna; allow the system to cool down.
09	Update failed		

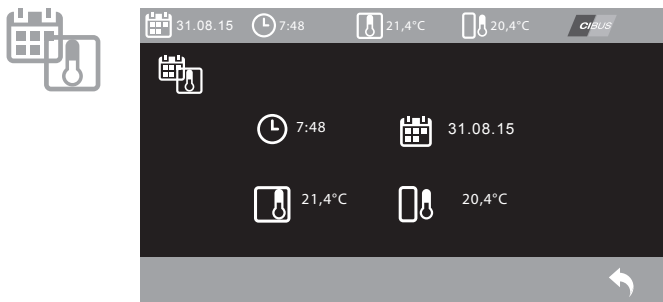
If the “Error” status is shown, the error code must be analysed. Should these errors occur, the codes will appear in the display on the Kathrein control system. Please note that due to these errors, the satellite dish may in some cases switch itself off to prevent damage to the device. If possible, remove the source of trouble before restarting the system. Never attempt to open or modify the equipment - this must be done by an authorised Hobby dealer!

Problem	Cause	Solution
Long search times	The system is searching in the wrong region.	Set the region in which the motor home is located (see Chap. 7, sub-menu: Set position).
Satellite not found/ no reception	The mobile home is located outside the satellite’s footprint.	Select another satellite.
Uncontrolled performance of the turnable satellite dish	The turnable satellite dish has “lost” the satellite and cannot find it again.	Reset the system. The reset button is located on the back of the CAP 650.

These problems are not errors that will cause the system to stop and send an error message. Therefore, they have no error code.







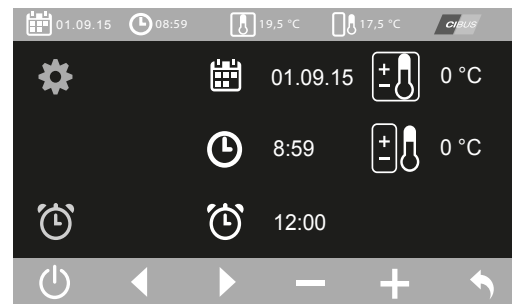
Errors must be acknowledged. This can be done using the Kathrein control device or via the emergency stop function in the menu for the satellite system on the TFT control panel.



Displaying the data in the fixed header A

This menu gives an overview of the data in the fixed header A. It is only possible to exit this menu by using the “Back” function; it does not automatically switch back to the main menu on the control panel.

-  **date**
-  **time**
-  **inside temperature**
-  **outside temperature**



Settings menu (for data in the fixed header A)

The date and time can be set in the Settings menu. Use the control knob or the left and right arrows to reach the desired value. Press the control knob; it is then possible to change the values by turning the knob (right = increase value; left = decrease value) or by using the “+/-” function. Press the control knob to confirm the changed value. Only then will it be saved.

The wake-up time is set and confirmed in the same way. Use the “On/Off” function to activate the alarm clock. The activated alarm clock is shown in green.

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

The temperature display can be changed by a maximum of +/- 12° C.

Exit this menu by using the “Back” function; otherwise, after one minute, it will automatically switch back to the main menu on the control panel.



Info menu on the TFT control panel

Information on the device manufacturer is shown here.



7.3.1 HobbyConnect*

HobbyConnect enables most CIBUS-enabled components in the motor home to be operated via mobile devices (smartphone/tablet/PC/notebook). At present, the **“MyHobby” app** is required for this.

Normally, the **MyHobby app** is free of charge and available as a demo version even without the HobbyConnect system.



The components in your own motor home are not connected to the app via the demo version.



- The MyHobby app is only available for iOS or Android operating systems.
- The MyHobby app is constantly being further developed and updated. Therefore, new In-App functions are on offer from time to time.
- An HTML version (access to the vehicle via Internet) is currently being developed.
- It is possible to access HTML using the following link:
<https://admin.myhobby.nu/mobile>

There must be a **HobbyConnect system** (i.e. an installed Connect Box with an integrated SIM card) in the motor home in order to establish a connection between the CIBUS-enabled components in the motor home and the app.

The connection between the motor home and the app can only be established if the Connect Box has been activated on the server and assigned to the corresponding vehicle. In order to activate the Connect Box, the access code (MyHobby Code) must be entered in the **MyHobby app**.



Upon request by the customer, the responsible dealer will activate the Connect Box. The customer will then receive the access code via e-mail or the appropriate key card will be handed over by the dealer.



The Connect Box automatically connects itself to the server via the SIM card as soon as the Box has been connected to the electric system. Only connect the Box to the on-board equipment just before using the HobbyConnect system.

The SIM card includes a 12-month Telenor **telephone contract** (for M2M data transmission via the Internet). The contractual period begins as soon as the system has been connected to the server via the SIM card. Before the term is over, the MyHobby app will call on the user to purchase an extension for the telephone contract. After 12 months, the SIM card will be deactivated if no extension has been purchased. If the existing contract is extended, it is then possible to use the HobbyConnect system for a further 12 months. If the subscription runs out, the SIM card

will be deactivated. To reactivate the HobbyConnect system, the provider will send an e-mail requesting payment.



- The telephone contract runs for 12 months. Contract extensions must be purchased.
- The SIM card no longer works after the renewal period has expired.
- Special m2m SIM cards are then required. These can be obtained from the Hobby dealer.
- Your cell phone provider may charge extra if you use an Internet connection abroad.



- If the contract is not extended, the components can only be operated by remote control via Bluetooth when standing in the near vicinity.
- To enable data to be transferred, the camper must be located within the group of countries shown in hatched lines on the map on **page 130**.

General information on using the HobbyConnect system

Access data and user settings are administered via the Hobby dealer.

- Contact your dealer if your user data should change.
- Treat your access code (MyHobby Code) with the strictest confidence. Anyone who has this access code can take over the remote control of the connected components. Report the loss of the access code immediately to your dealer.
- Make note of any changes in the user settings and user accounts when purchasing or selling a vehicle that has been equipped with the HobbyConnect system.
- Please note that your device must be able to send and receive mobile data. If this function has been deactivated or you do not have a mobile Internet connection, the HobbyConnect system can only be controlled via Bluetooth.



Connect Box

Default settings

First, please check whether the installed Hobby Connect Box is connected to the micro USB connection and supplied with power.

The USB power supply cable must be connected to the Hobby Connect Box. Blinking red and green LED lights at the top left indicate whether or not the box is working.



Key card

The Hobby Connect Box code for connecting the app to the vehicle can be found in the enclosed documents.



Do not confuse the serial number with the Hobby code!

If no Hobby code has been noted on the card, please contact your Hobby dealer, who will send you the Hobby code via e-mail.
(Please refer to the MyHobby Code section.)



Should you not be able to log in with your access data, this may be because your account has not yet been activated. In this case, please speak to your Hobby dealer.



Using the “MyHobby” app



Descriptions and illustrations may vary, depending on the operating system of the mobile device.

Install the **MyHobby app** on your device and then start the app.



III. 1

Start screen when accessing the app if a user has not yet been registered.

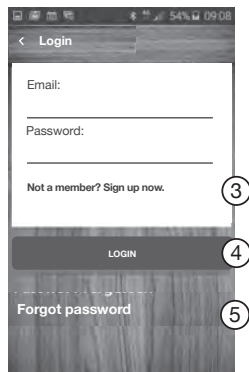
Use “Connect MyHobby” ① to start the app.

You will be asked to register the first time you start the app. Use the menu ② to register.

To register:

follow the instructions in the sections below for the “Android operating system” or the “iOS operating system”, depending on which system your mobile device uses.

If the app has already been started, select “MyHobby Code” ⑦ to view your account data.



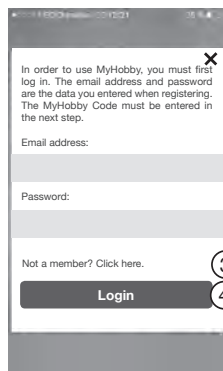
III. 2

Android Operating System

The interface for registering in the Android operating system is shown on the left.

Click on “Not a member? Sign up now.” ③ to register. Complete registration as described in III. 4.

Use the “Forgot password?” function ⑤ to reset the password and have a new password sent to the e-mail address entered.



III. 3

iOS Operating System

Click on “Not a member? Click here.” ③ to register.

Complete registration as described in III. 4.

In order to use MyHobby, you must first log in. The email address and password are the data you entered when registering. The MyHobby Code must be entered in the next step.

Email address:
john@doe.uk

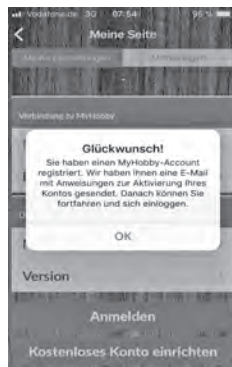
Password:
.....

First name:
john

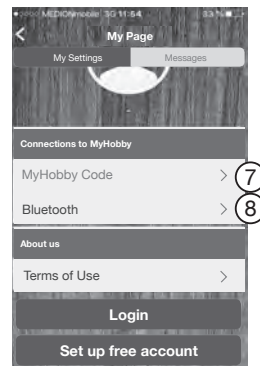
Last name:
doe

Set up free account ⑥

III. 4a



III. 4b



III. 5

Enter your e-mail address, your first and last name and set up a password. Then click on the button “Set up free account” ⑥.

You will then receive an e-mail that includes a confirmation link. Click on the confirmation link to complete the registration process.

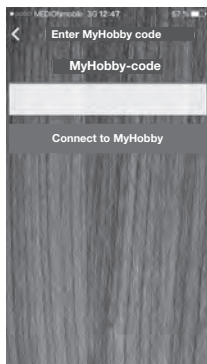
In future, simply enter this e-mail address and the password that has just been set up in login form (III. 2/III. 3) and click on the “Login” button ④ to start the app.

This will take you to the Start menu.

MyHobby Code

To enable the dealer to generate the Hobby code, please have the following data at hand:

- the serial number of the MyHobby Connect Box (can be found on the box, in the enclosed documents or in the TFT menu for Hobby Connect under CB number: xxxxxx)
- and the vehicle identification number (VIN).



III. 6

When you have received the Hobby code, select “MyHobby Code” ⑦ and enter the access code.



- Your dealer will give you the access code.
- Be careful to use the correct upper and lower case spelling.



The Bluetooth function will be activated after the motor home has been connected to the app for the first time by entering the access code. Before this has been completed, it is not possible to connect via Bluetooth.



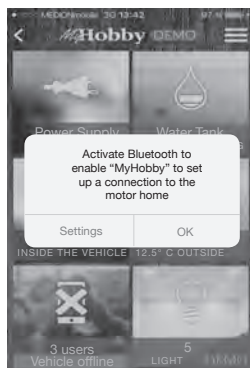
III. 7

The MyHobby Code that has been entered is shown at the top of the screen (removed here for reasons of data protection).

Use the “Delete MyHobby Code” button ⑨ to disconnect and delete the access code that was entered.

Furthermore, the red button indicates that the MyHobby code is correct and that you can now return to the main menu.

There are differences in the app’s functions, depending on which components have been fitted, as well as different functions, depending on the type of vehicle. **(See App Functions)**



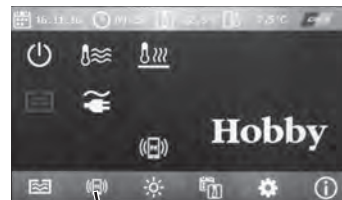
III. 8

Setting up a Bluetooth connection

To set up a connection between your mobile device and the TFT control panel in the motor home, the Bluetooth function on both components must be activated.

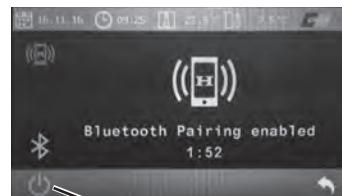
Therefore, in order to use the app functions, you will be requested to activate Bluetooth on the app (III. 8).

1. Activate the Bluetooth function on the TFT control panel in the motor home. Proceed as follows:



III. 9 ⑩

In the Start menu, select the submenu HobbyConnect ⑩ by means of the softkey or the control knob.



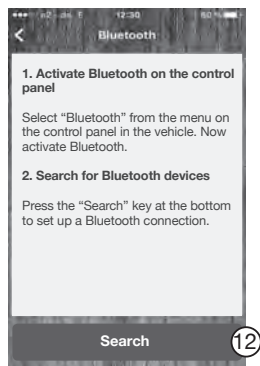
III. 10 ⑪

Activate and deactivate the Bluetooth connection by means of the On/Off function ⑪ in the submenu.



The system counts down the remaining time from 2 minutes. During this time, the motor home is displayed on the mobile device via Bluetooth.

2. Activate the Bluetooth function on your mobile device.
If necessary, use the manufacturer's operating instructions.

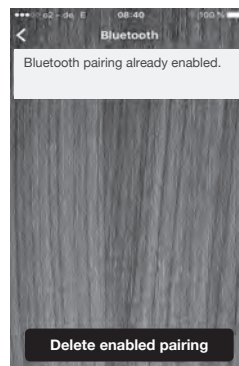


III. 11

When the Bluetooth functions have successfully been activated, use the “Bluetooth” button ⑧ on the app's Start menu to connect the components and then start the “Search” function ⑫.

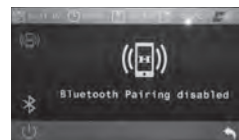


This procedure can take up to 30 seconds.



III. 12

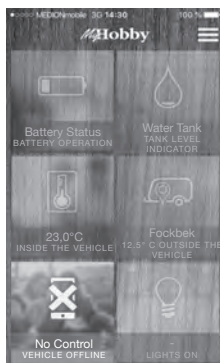
The picture (III. 12) shows a successful Bluetooth connection.



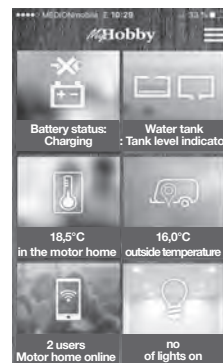
III. 13

This message will appear on the TFT control panel if a Bluetooth connection could not be set up.

Please check the Bluetooth settings again on your mobile device.



III. 14



III. 15



Special features indicate that a connection to the motor-home could not be set up. The overview will be greyed out and “No control/vehicle offline” will be displayed.

This may be caused by the following:

- The box was not connected by means of the USB power supply cable.
- The box is not activated. The box activates itself automatically as soon as the mobile home has been connected to the power supply for a certain period of time.
- The box was not connected by means of the USB power supply cable.



Please contact your dealer if you have any questions or difficulties.

Using the app functions mobile homes

The control panel display shows the functions that can be read out and/or controlled via the app.



The operating elements on the app interface may vary, depending on how the vehicle has been equipped. Tap on the desired function once to enter the submenu and obtain detailed information on the function in question.



III. 16

Battery management

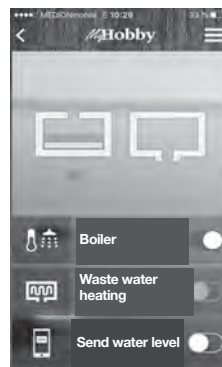
The batteries available in the bus system are displayed on the Battery Management menu. The battery menu can recognise up to 3 batteries provided each of these has a battery sensor.

All information is transmitted via the sensors.

Values are displayed for power, voltage, mains operation and discharging/charging of the battery.



The motor battery is also displayed. The function can be programmed to send you a message if the battery voltage should sink below a critical level.

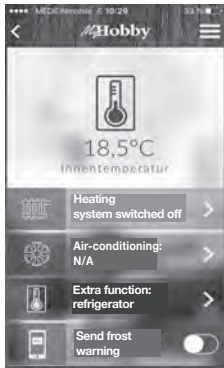


III. 17

Water and waste water

The water levels in the fresh water and waste water tanks can be seen in this submenu.

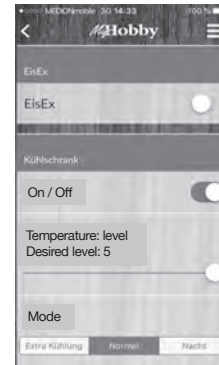
The waste water tank heating system* and the boiler for the heating system can be switched on and off here manually as required.



III. 18



III. 19



III. 20

Inside temperature

Depending on how the vehicle has been equipped, “inside temperature” refers to the regulation of the heating and/or air-conditioning system*. Apart from the settings for the heating and air-conditioning systems, there is a further submenu on the mobile home app called “Extra Function”.

If, for example, no air-conditioning system was fitted, the system will recognise this and inform the user accordingly. **(Fig. 19)**

Furthermore, the function can be programmed to send you a message if the system recognises there is a danger of frost, enabling you to switch on the heating if necessary to prevent the caravan freezing up.

The Ice Ex cartridge* is controlled in the extra menu, provided this component has been installed (the heating cartridge is only available in combination with the optional extra “gas pressure regulator TRUMA DuoControl incl. automatic changeover system and crash sensor”).



III. 21

Weather and location

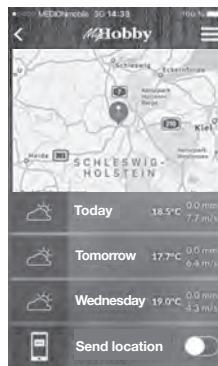
The outside temperature is detected via a sensor. A weather forecast is displayed for the next three days.

After parking the vehicle in a certain location, activate the function “Notify location”.

This enables the system to understand that the motor home is not to be moved from its location. Should the vehicle’s position be changed, an automatic message will be sent to your mobile device as soon as the radius has been changed by more than 1 km.



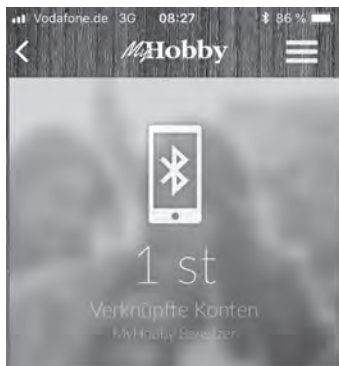
If you have deactivated the “Notify location” function on your mobile device, the last known location will be used. The weather report may then vary considerably.



III. 22

GPS data is used to show the position of the mobile home.

This data is not stored. Should there be a GPS connection, the current position is always displayed. Click on the map to be redirected to the Google Maps view.



III. 23

Users

This menu displays the number of users connected to the vehicle via the Internet. If you have logged in via Bluetooth, this will be displayed here.



III. 24

Lighting

The lighting menu can be used to switch lights on and off individually or as a light group (several lights at the same time).

To set up a light group, switch on the desired lights and save them under Light Group.



The app cannot be used to dim the lights.



III. 25

MyHobby Messages

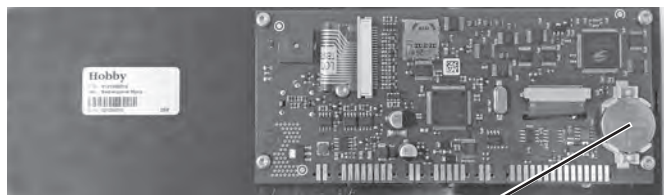
All notifications can be centrally administered in this menu.

The MyHobby App is available in the following countries:



Possible errors

Possible errors	Suggested solution	Other
The app cannot be found in the store.	Check the settings on the device; write MyHobby as one word and not two.	Check the app settings in the respective country.
The Hobby Connect Box is not recognised.	Check whether the device is connected to the power system.	The red and green LED lights must blink in the upper left-hand corner.
The box is connected to the power system, but it is not recognised.	Check the data cable on the box. Restart the device by separating it from the power supply system for 10 seconds and then reconnecting it.	Contact your dealer.
Logged into the app, but the box is in offline mode.	Have your dealer check GSM and GSM reception.	If necessary, change the location and then check again.
Only the air-conditioning system is not recognised.	Press the main switch located directly on the roof air-conditioning system to operate the device.	Contact your dealer.
The connection was interrupted.	Disconnect the power cable from the box for 10 seconds and then restart.	Still no connection: have your dealer check the data.
App connection exists, but elements in the vehicle do not react to switching.	Check whether the HobbyConnect icon is displayed on the TFT control panel. If necessary, exit from the demo mode.	If no icon is visible, check the power supply. If necessary, disconnect it briefly.
Hobby code does not work.	Enter again. Be careful to use the correct upper and lower case spelling.	Should several attempts fail, contact your dealer.
Bluetooth connection does not work.	Check the settings on your mobile device to ensure that Bluetooth has been activated.	If the distance to the vehicle is too great.



Circuit board (reverse side)
of TFT display

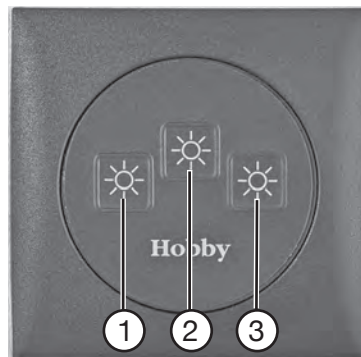
General information regarding the TFT display

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

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



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



3-key control panel

Remote control(s), bed

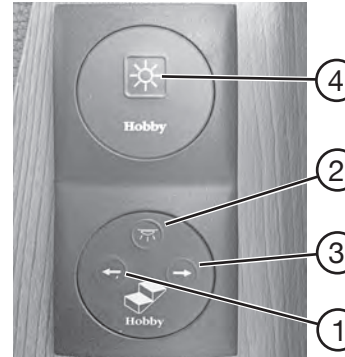
- Briefly press the key on each remote control by the bed to switch on the left light ①, right light ③. The key ② switches the ceiling lights above the seating arrangement or sleeping area on and off. In the **Optima De Luxe and Premium models**, the ambient lighting is switched on and off in the bedroom. Press longer on the key to regulate how brightly you want the lights to shine. The brightness you set will be saved; when the lights are switched on again, the brightness you originally set will also be switched on again.



Washroom switch

Remote control, washroom

- Briefly press the key to switch the light in the washroom (and in the separate shower, if there is one) on or off.



Switch for step tread and children's light switch for ceiling light

Remote control(s), entrance

These remote control functions work even if the functions of the main switch have been deactivated on the control panel. The remote control controls the electric entrance step.

- Press the key ① to fold the step out; press it ③ again to fold the step back in.
- Briefly press the key ② to switch on the entrance light (not while the motor is running).
- Briefly press the key ④ to switch on the ceiling light (not available in the **Optima Ontour Edition model**).



Siesta / Optima Ontour Edition



Optima
(not available in the
Ontour Edition model)

Remote control for kitchen

- Briefly press the left key to switch on the kitchen light.
- Briefly press the right key to switch on the ceiling light.



Key assignments may vary, depending on the model. In the Optima Ontour Edition series, the remote control for the kitchen is located above the input for the remote control.

7.4 Electric power supply

In all of the vehicles, the central electrical system is installed underneath the front right passenger seat.

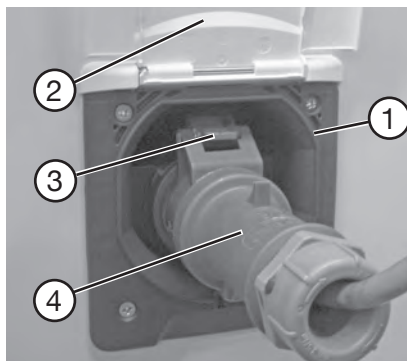


230V-External socket

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

- 230V mains connection 50 Hz
- via the generator when the motor is running
- via the ancillary battery

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



Connected 230V feeder plug

Supply via mains connection

The mobile home is connected to the external 230V mains by means of the CEE external socket ① located on the side wall.

To connect the CEE feeder plug

- Switch off the automatic circuit breaker ① p. 136 by pressing the rocker switch ② down p.136.
- Grasp the bottom of the cover flap of the CEE external socket ② and flip it up (see also p. 41).
- Completely unwind the connector cable.
- Open the cap of the CEE feeder plug ③ by pulling it up in a 90° angle.
- Insert the plug ④ until it locks into place.
- Switch the automatic circuit breaker ① p. 136 back on.



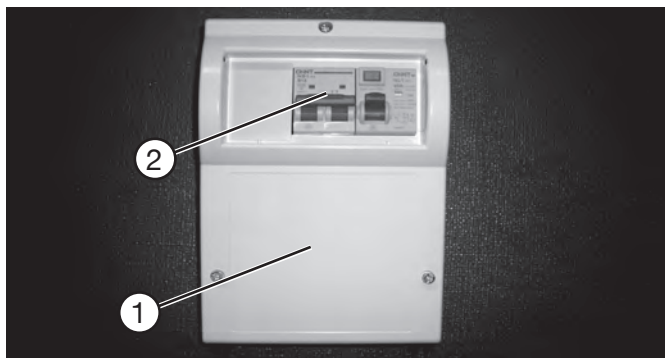
The mobile home's engine must be turned off before the 230V mains connection is hooked up.

To disconnect the electric connection:

- Switch off the automatic circuit breaker ① by pressing the rocker switch down ②.
- Remove the CEE feeder plug ④.
- Press the cover flap ② of the external socket down until it clicks into place.



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



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

Fuse protection for the 230V system

The 230V system is protected by a two-pole 13 A automatic circuit breaker ①, which is located either by the refrigerator, the clothes cupboard, the seating arrangement or the bed. (Exceptions to this include special installations, such as hot-water heating, etc.. In this case, an additional two-pole 16 A circuit breaker has been installed.) If there are two automatic circuit breakers, both must be switched on.

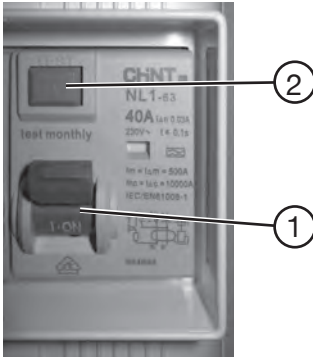
Rules for the mains connection

- Use only a 3 x 2.5 mm² cable with a maximum length of 25 m, a CEE plug and connector to connect the motor home to an external 230 V mains.
- After the mains connection has been plugged in, both the modular and the vehicle battery will automatically be charged by the battery charger in the motor home (even if the Control Panel has not been switched on).



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

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



FI switch and test button

Residual current device

The standard version of your vehicle is equipped with a residual current device that will interrupt the electric circuit in case of a possible residual current. Should there be a malfunction, the passenger circuit breaker opens the entire 230 V circuit.



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

A residual current device does not guarantee any protection against the danger from an electric shock.

It does not protect against possible electrical accidents.



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

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

The rocker switch ② **p.136** jumps down; after it has successfully been checked it must be switched back up to the "On" setting.

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 residual current device has been set 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.

f the automatic circuit breaker has gone off (other than if you have switched it) 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.

Devices that set off during operation show that there is a defect; 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.

Operation when the motor is running

As soon as the motor is running, a relay connects the starter battery and the motor home battery in parallel. Therefore, the dynamo charges both batteries. If the vehicle engine is issued, both batteries are disconnected from each other again. In this way, the starter battery cannot be discharged by equipment in the motor home.



Always turn the motor off before hooking up the 230V mains connection via the CEE external socket.

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



To optimally charge a discharged modular battery while driving, as many 12V electrical devices as possible should be switched off.

Checklist

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

The voltage of the motor home battery must rise if

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

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

- Is the 50A fuse in the supply line to the ancillary battery near the motor battery functioning properly?
- Is the "Motor running" signal on the input module on?

Operation via ancillary battery



- Only accumulator batteries with bound electrolytes (gel batteries) may be installed in those positions specified by the manufacturer.
- The installed gel battery may not be opened.
- When changing ancillary batteries, use only batteries of the same make and capacity. (Setting the battery type on the control panel: **see p. 98**)
- Before disconnecting or connecting the auxiliary battery, switch off the motor, 230V supply, 12V supply as well as all electrical devices.
- Before replacing fuses you must first de-energise the charger.
- Fuses may only be replaced by fuses with the same fuse protection value.
- Airing the charger insufficiently will reduce the charge current.



The 230V electrical devices do not work when using the ancillary battery as a power source!



Vehicle's electric system underneath the front right seat

Position of the 95 Ah AGM ancillary battery

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



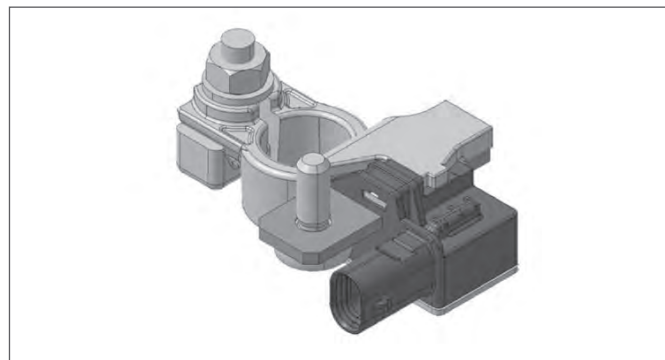
In all vehicles, the optional additional battery is mounted on a base plate in the front left passenger seat console.

Operating and charging the ancillary battery

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

The battery is charged from three possible input sources:

- the generator when the motor is running
- the charger Dometic PerfectCharge SMP439
- if available, via a solar panel*



Intelligent Battery Sensor (IBS)

Battery Sensor (optional for Optima Ontour Edition model)

An Intelligent Battery Sensor (IBS) has been connected to the battery terminal. It measures and monitors the actual current, actual voltage and temperature of the batteries in a highly precise manner. Normally, the battery sensors are calibrated automatically. To calibrate the battery sensor manually, please follow the instructions in **Chapter 7.3 Battery Management**.



If there is a loss of power in the battery sensor (voltage absent), you must recalibrate.

It is possible to determine the remaining operating time of the battery based on the current consumption. The IBS ensures that the battery will be changed in good time and assists in providing active energy management so that the performance

requirements of the different electrical devices can be coordinated with the charging of the battery.

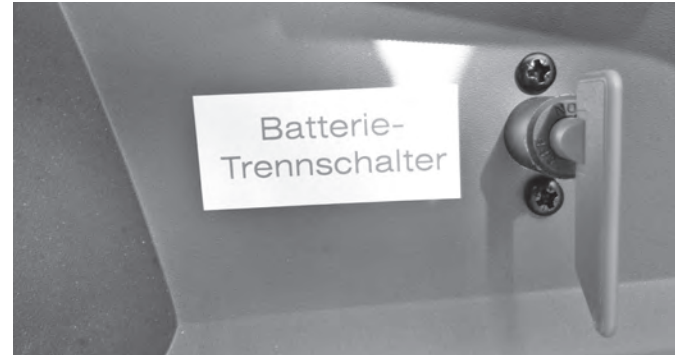
The charge state of the battery, age or remaining time until discharge are all shown on the TFT display of the control panel. Charging is carried out gently in accordance with the steady-state principle by an "intelligent" charger.



The battery sensor is protected by a 10 A .



- Always charge the ancillary battery for at least 24 hours before each journey, directly after each journey and before you take the motor home temporarily out of service.
 - Before each journey, please check that the battery is charged (**see p. 96**). If necessary, connect it to the mains to start charging the battery.
 - The battery is only charged if it has a minimum voltage of 8 V.
 - Use every opportunity during your journey to charge the battery.
- If the vehicle is not in use for a longer period of time, the battery should be disconnected after it has been optimally charged by switching the battery circuit breaker on.
- The battery loses its capacity after having been used for a while and at low temperatures.
 - A warning will go off if the battery ages to a value less than 50% of its nominal capacity.
- When operating the battery for the first time, the IBS must first collect measurement data (this process takes approx. 3 hours).
 - During this time, the battery's open circuit voltage is determined.
 - A charging/discharge current of < 150 mA is required to do so.



Battery circuit breaker

Position of the battery circuit breaker

The battery circuit breaker is located directly by the front right passenger seat.

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

"Off" position = disconnected from 12V mains.

The battery charger is directly connected to the ancillary battery so that the ancillary battery can be charged via the 230V mains supply even if the battery circuit breaker is switched on.



The battery sensor continues to be activated even if the battery circuit breaker has been opened.

To keep the batteries charged even when not in use, it is mandatory that the vehicle be connected to a 230V mains connection every 6 weeks. Recharging should be carried out for at least 24 hours.



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



If the battery circuit breaker has been switched on for a longer period of time, you may lose your customised radio and/or sat nav device settings. These settings must then be entered again.



Battery charger

Charger Dometic PerfectCharge SMP 439

The charger supplies the batteries with electric power.

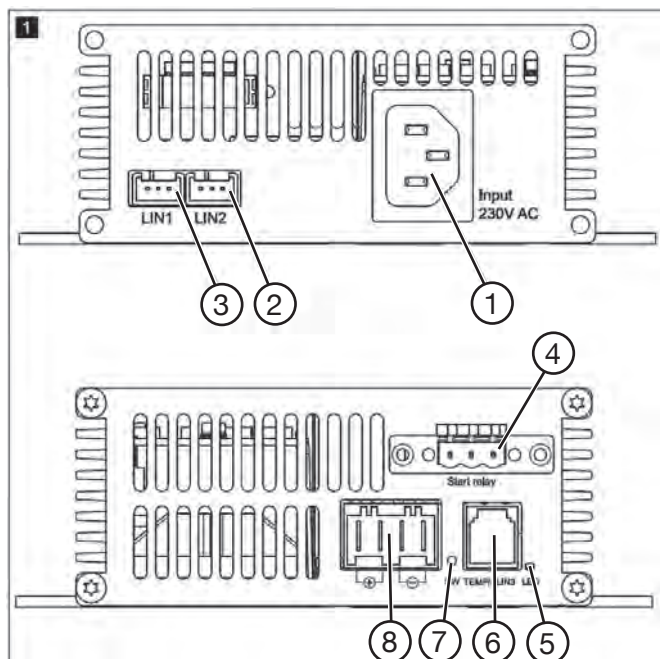
During this process, the existing cooling system runs passively; the fan is not active.

If the charging currents to the two batteries are high for a relatively long period of time, the charging current to the starter battery will be reduced and limited via an electronic current limiter. As a result, the ancillary battery will be charged first.

Should the battery sensor measure a battery temperature of over 52°C, the control will interrupt the charging process to prevent the battery from being overcharged.



The charging device can be accessed from the back of the front right passenger seat.



Charger connections

- ① Input for AC operation
- ② LIN2 connection port
- ③ LIN1 connection port
- ④ Start relay port
- ⑤ Status LED
- ⑥ LIN Bus connection port/Temperature sensor
- ⑦ Selection switch for type of battery
- ⑧ Battery connection port

7.5 Electrical system

When the mobile home is connected to the 230V mains supply, the battery is automatically charged by the charger.

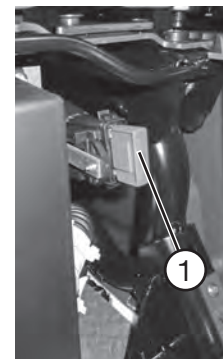
All 12V electrical devices are supplied directly by the ancillary battery. In 230V mains operation, they are supplied automatically by the battery charger.

All of the lamps in the motor home use 12V LED lights. Only large electrical devices such as the Combi E heating*, air-conditioning system*, refrigerator running on 230V etc., use 230V.



Assignment of fuses

Assignment of fuses



Main fuse for ancillary battery

The fuses for the individual internal electric circuits are located in the central control.



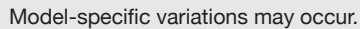
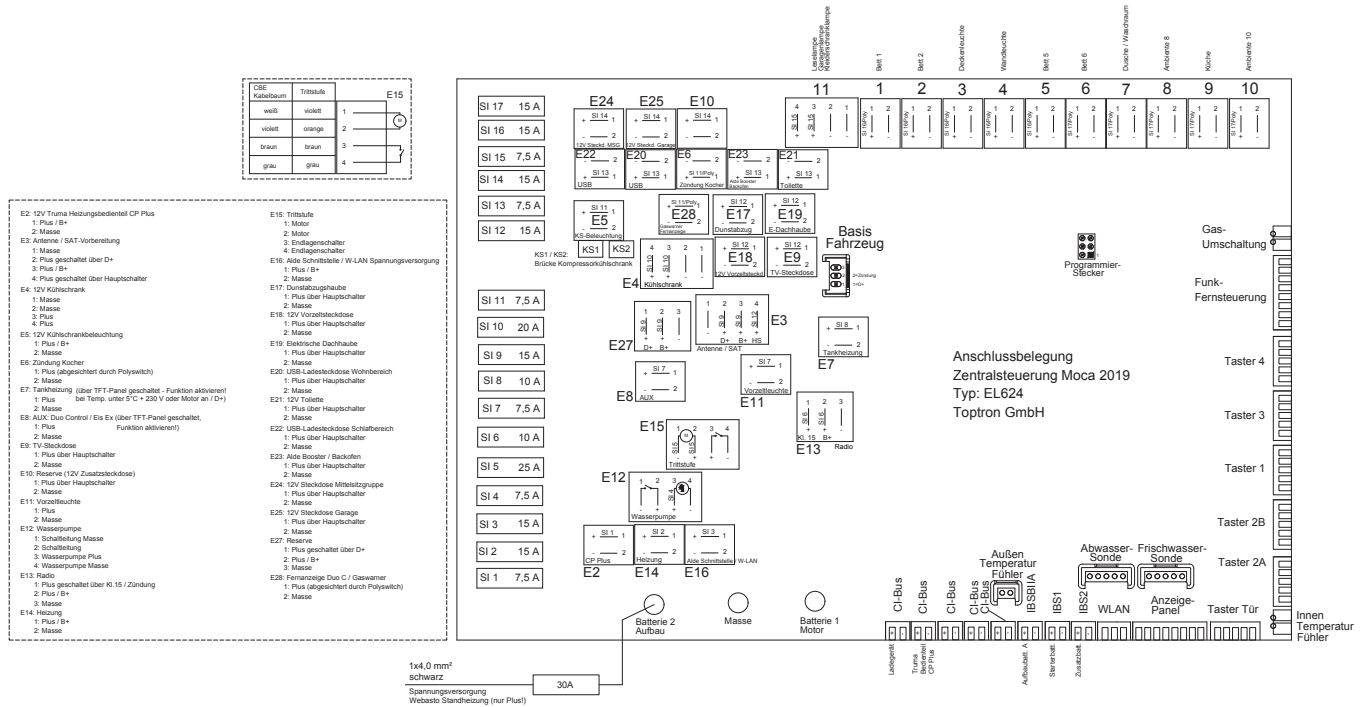
In some models, there may be slight deviations in this assignment.

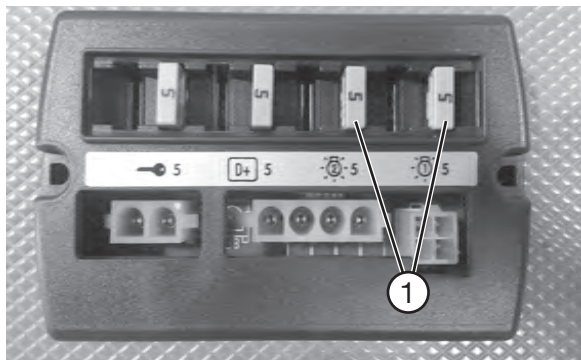


Only replace defect fuses if you know what caused the fuse to blow and have fixed this.

The original 50A main fuse ① is located directly by the body battery. It protects all of the installation technology that depends on the body battery.

Assignment of connections for central control EL 624





Interface module

Fiat interface module

The interface module protects the superstructure's outside lights: the right and left side marker lights as well as the front position lights (① 5 Amp fuse).

Position of the interface module

B-pillar on the right-hand side in the direction of traffic, behind the plastic casing in the lower section.



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 twin charger socket

USB twin charger socket*

These connections are suitable only for charging USB-compatible devices. The two connections on the USB surface-mounted socket can be accessed from the top.

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



TV connections

7.6 TV Connections

TV unit

The installation area for the flat-screen TV differs from model to model.

The required connections can be found right next to this space, possibly in a cupboard.



Antenna and digital SAT cable

The corresponding connection for the SAT antenna (E3) is fed out openly in the position appropriate for the model in question (exception: the **Optima Ontour Edition model**, because in this series the Sat system is part of the standard equipment).

The power cable (E3) has already been connected by the manufacturer to the control panel.

Cable colours (E3):

black = mass

red = steady plus for ancillary battery

grey = D+ signal

orange = plus from ancillary battery via main switch on control panel

80 (reserve cable, not attached): Preparation for a CI BUS connection

Position

Optima:

T65 GE / T70 E / T70 GE: Wall cabinet, seating arrangement

T65 FL / T65 HFL / T70 F

T 75 HF: Clothes cupboard

T75 HGE: Wall cabinet at foot of right-hand bed (in the direction of traffic)

T70 GQ / T70 HGQ: Clothes cupboard right-hand bed (in the direction of traffic)

Siesta De Luxe:

A60 GF/A65 GM/A70 GM: Clothes cupboard



External socket and antenna terminal in the outer tent

230V external socket incl. coaxial-connection*

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



Clothes cupboard light



Garage light on Ontour Edition model

7.7 Special Lights

The switches for the lights described here are located directly on the lights themselves; they depend on the master switch function on the Control Panel.

Seating arrangement

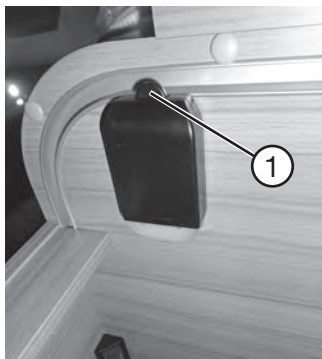
The reading lights can also be switched on using the control panel (S. 90).



Activate the main switch on the control panel to control the lights via the separate switch.

Lighting in clothes cupboard/over children's bed/Garage lighting

These lights can only be switched on manually.



Lighting in clothes cupboard Optima Ontour Edition

Lighting in clothes cupboard (Optima Ontour Edition)

The clothes cupboard light switches on automatically as soon as the sliding door is opened and, thus, the sliding mechanism ① is activated. When the sliding door is shut, the light is automatically switched off.

Check the battery for the clothes cupboard light, should it fail to switch on when the sliding door is opened.



SAT-nav device

7.8 Mobile navigation

Your mobile home is equipped with a mobile navigation system and integrated rear view camera.



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



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

Reverse drive video system

The front connection of the built-in video cable is located in all vehicles underneath the upper right-hand compartment in the dashboard. When driving, the camera system acts as a rearview mirror.

Siesta De Luxe

The rear cable end can be accessed from the inside by removing a plastic plug at the rear of the mobile home (on the rear wall; in some models accessible from above the wall cabinet).

Optima

The rear cable end can be accessed from the outside of the vehicle. It is behind the middle, upper rear wall panelling.

The following cables have been installed:

Model	Manufacturer	Part description	Part number
Siesta De Luxe	Caratec	camera cable, miniature camera	MCA29004 for AVN4429
Optima Outour Edition	Dometic	camera cable RV-620/OE	9600000645, 20m
Optima De Luxe/Premium	Dometic	camera cable RV-620	9103555670, 20m

7.9 Subsequently installed devices

Subsequently installed electronic devices that can be used while driving (e.g. mobile phones, wireless equipment, radios, cameras for driving in reverse, navigation equipment, or others) must meet all of the requirements for electromagnetic compatibility. Such equipment must have been approved in accordance with ECE 10, because otherwise it may cause interference with the electronic systems already installed in the motor home.

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

Chapter 8: Water

8.1 General



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



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



Immersion pump

8.2 Water supply

Function of the water supply

Fresh water is supplied to the heating system, the kitchen and toilette via a submersible pump. The TANDEM submersible pump operates electrically:

- via the ancillary battery,
- when the motor home is connected to the 230V mains via the power supply.

The following applies for the TANDEM submersible pump:

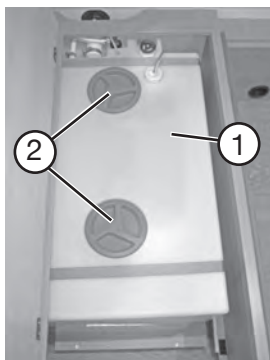
- The TANDEM submersible pump is only suitable for water.
- The TANDEM submersible pump can briefly tolerate temperatures of up to 60° C.

- Avoid dry runs.
- Protect the pump from freezing.
- Hard blows or hits as well as very dirty water can destroy the pump.



The TANDEM submersible pump requires no maintenance.

The TANDEM submersible pump switches itself on automatically when the water taps are opened.



Fresh water tank

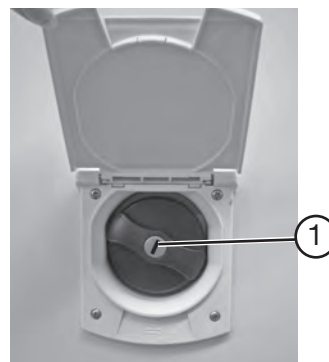
Fresh water tank

The tank ① has a volume of 100 l and is located in the seating arrangement.

The tank is filled with fresh water by means of the filler neck on the side wall.

The neck for filling up fresh water is marked by a blue cap and a picture of a water tap on the upper edge of the frame. The screw cap is opened and closed by means of the enclosed key for exterior flap locks and the door of the structure.

If you fill too much water into the tank, the excess will run out at the filler neck. If the 10 litre function has been activated, the water will come out through the opening beneath the vehicle.



Filler neck for the fresh water tank

Opening

- Use key to unlock ①.
- Give the blue cap a strong turn counter-clockwise and remove it.

Closing

- Put the blue cap back on and turn it clockwise to shut it.
- Use key to lock ①.



Check the red service lids ② **S. 153** regularly; they may become loose if the fresh water tank is filled often.

Filling the water system

- Place the motor home in a horizontal position.
- Shut all of the water taps.
- Switch on the main switch on the control panel.
- Close the outlet valve (FrostControl) on the boiler.
- Unlock the petrol cap and turn it counter-clockwise to open it.
- Fill the water tank using the fresh water filler neck.
- Turn all of the water taps to „hot“ and open them. The water pump will be switched on.
- Leave the water taps open until the water flows out of the taps without any bubbles. This is the only way to ensure that the boiler will also be filled with water.
- Turn all of the taps to „cold“ and leave them open. The cold water pipes will be filled with water.
- Leave the water taps open until the water flows out of the fixtures without any bubbles.

- Shut all of the water taps.
- Shut the filler neck.



Use the control panel to check the amount of water in the fresh water tank.



Never introduce anti-freeze or other chemicals into the water system.

This can be poisonous!

When operating during winter ensure that the fresh water tank is sufficiently heated.

To remove water

- The water will be mixed to the desired temperature according to the position of the pre-mixing unit.

Hot water supply

Hot water is supplied by means of the hot-air heating system with its integrated hot-water boiler (**see also Chapter 10.2.1**); the options for settings are described on **p. 179** “Changing the hot water temperature”.

The boiler will automatically empty itself via a safety or outlet valve if there is danger of frost (**see also p. 187 Frost Control**).



Frost Control

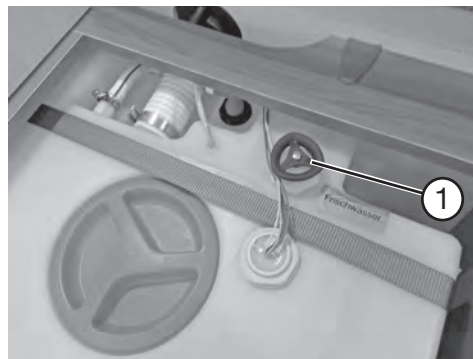
Position of the Frost Control valve

The Frost Control valve is always located directly by the model-specific place of installation for the hot-air heating system.



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

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



Outlet valve for fresh water tank

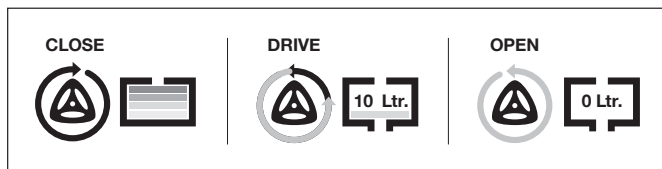
Emptying the fresh water tank

The outlet valve is located directly on the fresh water tank.

- To empty the fresh water tank, turn the rotating wheel ① to the left to open.



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

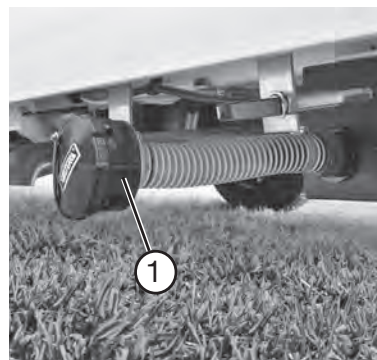


Filling the fresh water tank before driving

The additional load indicated in Chapter 14 “Technical Data” for the motor home was calculated based on the fresh water tank holding 10% of a full tank, i.e. 10 litres.

Before and during every journey, we recommend that the fresh water supply be restricted to 10 litres, if necessary by draining off water via the outlet valve. Open the rotating wheel ① with a 3/4 turn to find out how much additional fresh water you can take on board.

If there is sufficient capacity for additional loads, the tank can be filled further.



Waste water opening



Valve for waste water opening

Emptying the waste water tank

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



The lid ① slightly sucked into the opening. Therefore, never close the lid too tightly.

Emptying the water system

- Use the control panel to switch off the electricity for the water pump by pressing the main switch (for approx. 4 seconds).
- Open all of the water taps to the centre setting.
- Hang up the adjustable shower head in the shower.
- Open all of the outlet valves (including the FrostControl).
- Unscrew the cap on the cleaning port of the fresh water tank
② **S. 153.**
- Remove the lid of the water tank. Take out the water pump and hold it up until the water pipes have emptied completely.
- Check whether the tank, boiler, faucets and pipes have emptied completely. If necessary, blow out any remaining water in the pipes using compressed air (max. 0.5 bar).
- Re-insert the the water pump in the fresh water tank and close the openings.
- Leave the faucets and the outlet valves open.
- Clean the tanks and rinse them thoroughly.
- Allow the water system to dry for as long as possible.
- Do not forget to empty the toilet cassette.



If an Alde hot water heater has been installed, the water runs off through the outlet value on the hot water heater instead of through the boiler (**see also 10.2.2**).

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



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

Waste water tank

The waste water tank is integrated in the chassis; it is insulated.

After the heating system has been switched on on the control panel, the hot air is conducted to the waste water tank. This prevents the waste water from freezing in a light frost.

Exception:

Alde hot water heating system* (**please refer to description in Chapter 10.2.2**)

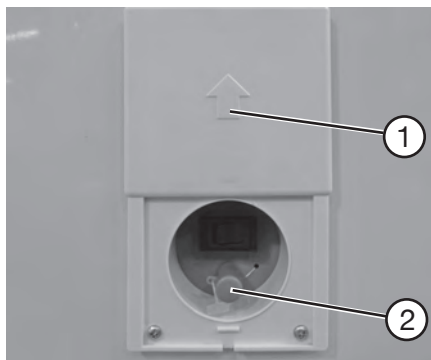


Do a small quantity of antifreeze agent (e.g. table salt) to the waste water tank if temperatures are significantly below freezing to prevent the waste water from freezing.

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

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

Use the control panel to check the amount of water in the waste water tank.



Connection for outside shower

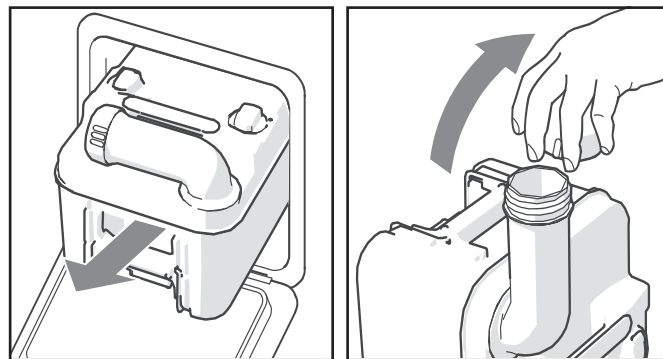
Water connection for external shower *

Opening

- Push the cover ① up to gain access to the water connection.
- Remove the protective cap from the connecting piece ② and connect the hose.

Closing

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



8.3 Toilet

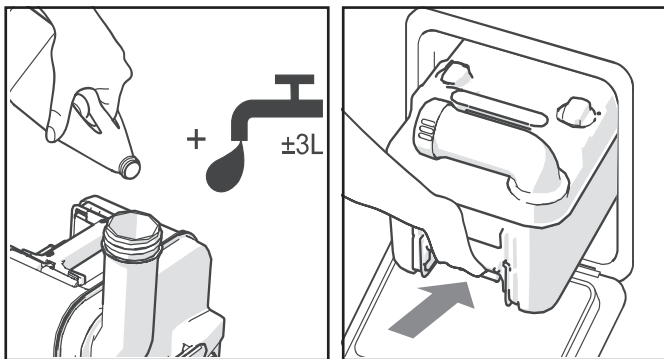
The pivoting toilette consists of two parts: a fixed toilette and a removable waste tank. Before the toilet can be used, the waste tank must first be prepared as described below and then returned to its original position.

Preparing the waste tank

- Open the Thetford door (**see 5.2 Toilet flap**) and pull the holding bar up to remove the waste tank.



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



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



Never add sanitary liquids directly through the valve or into the toilet bowl, because this may damage the washer of the valve in the waste tank.

Always add liquids by pouring them through the spout.

- Pull out the tank as far as possible, keeping it level.
- Slightly tip the waste tank and then pull it out completely.
- Set the waste tank in an upright position, turn the spout to the top and open it.

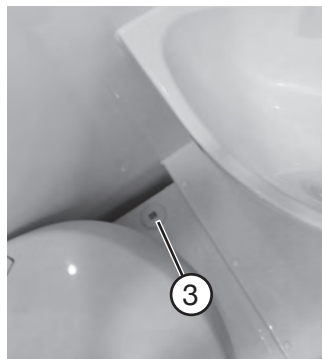


Use toilet fluids very sparingly. An overdose is no guarantee of preventing possible odours!

- Fill the waste tank with the correct amount of toilet fluids.
- Then add enough water to completely cover the bottom of the waste tank (approx. 3 liters).
- Shut the spout and turn it back to its original position.



Pivoting toilette



Filling level indicator

Using the pivoting toilette

- Shut the lid of the toilette and use both hands to turn the bowl to the desired position (clockwise: no more than 90°; counter-clockwise: no more than 170°).
- Then open the cover plate by pulling the handle ① to the right.
- Press the flush ② for several seconds to flush the toilette.

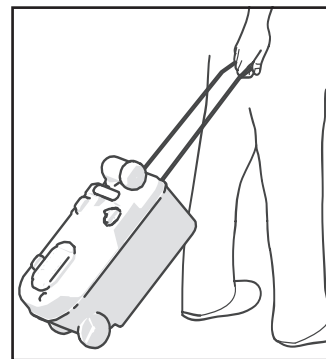
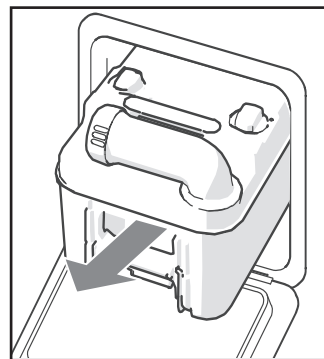
③ Filling level indicator



The pivoting toilette can be used whether the cover plate is open or closed.



The toilette is designed for a max. weight of 120 kg.



Emptying the waste tank

The waste tank must be emptied no later than when the single-stage filling level indicator ③ lights up. It is recommended that the tank is emptied before this.

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

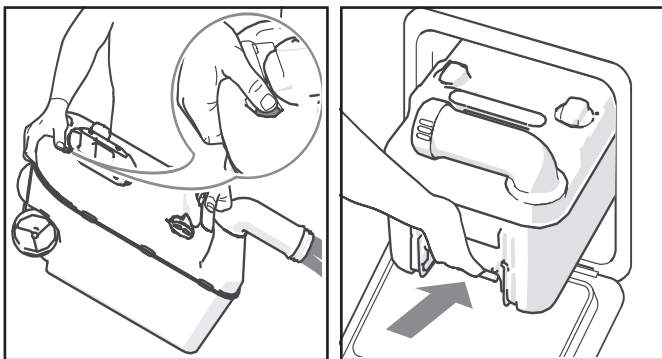


The waste tank can only be removed when the drain valve is closed.



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

- Pull the handle all the way out.



To empty the tank without spraying, press the vent button while you are emptying the contents of the tank. Only press the vent button when the drain tube is in a downward position!

Please refer also to the manufacturer's operating manual, included in this package.

To prevent damage by water to your vehicle, the waste tank should be no more than $\frac{3}{4}$ full when driving. Otherwise, it may leak through the ventilation system.

- Take the waste tank to a designated disposal site.
- Set the waste tank in an upright position and turn the spout to the top.
- Remove the top on the spout.
- Hold the waste tank so that the spout points down.
- Press the ventilation button with your thumb and hold it down. The waste tank will drain itself.
- Flush the waste tank once with fresh water (approx. 5 liters).
Do not forget to screw the cap back on to the emptying support.
- Return the waste tank to its storage position, ensuring that it is pushed in until the holding bar locks into place.
- Lock the service flap.

Chapter 9: Gas

9.1 General safety rules when using LPG fittings



The operating pressure for gas is 30 mbar.



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

Exception:

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

Checking the gas fittings

- Before initial operation have the LPG fittings checked by an expert.
- The gas fittings must be checked every 2 years by an LPG expert. This must be confirmed on the certificate (in accordance with Form G 607 from the German Association of Gas and Water Experts (DVGW) and EN 1949).
- Regulator knobs, hoses and exhaust pipes must also be checked.
- The safety regulators and hose lines must be replaced at least every 10 years; high-pressure hoses after 5 years (from the date they were manufactured. Should you dis-

cover tears, porous spots or similar defects in the hose, it must be replaced immediately.

- The operator is responsible for having checks carried out. This also applies for vehicles that have not been approved for driving on the road.



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

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

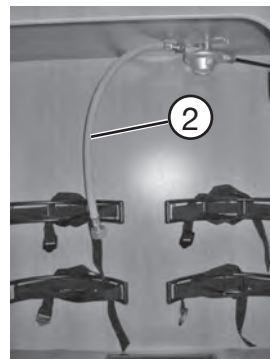
The gas fittings may only be taken into operation again after they have been checked by an expert.

Built-in objects and changes

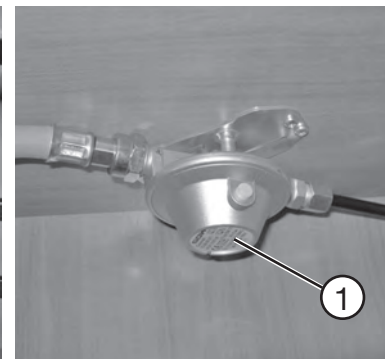
- Fixtures and changes to the gas system may only be carried out by a recognised expert for liquid gas systems.
- Only devices with a constant connection pressure of 30 mbar may be operated.
- Following any changes to the gas fittings they must be rechecked by a recognised expert, who must provide a written confirmation.

Regulators and valves

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



High-pressure hose



Gas regulator mounted on the ceiling

Gas regulator for France and Great Britain *

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

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



High-pressure hoses are used for gas regulators that have been mounted on the ceiling. This must always be taken into account should it be necessary to replace the hose. Connections on gas pressure regulators are screwed on anti-clockwise. High-pressure gas hoses must be replaced every 5 years (the manufacturing date printed on the hose is decisive for determining when this must be done).

Before initial operation

- The waste gas pipe must be tightly connected to the heating and chimney without any leaks. It may not be damaged.
- Keep vents clear.
- Remove any snow from the chimney.
- Clear aspirating openings for combustion air in the side all from dirt and/or snow. Otherwise, the exhaust fumes could have a CO content higher than allowed.
- Do not close the safety vents.
- We recommend that you store a Type ABC powder fire extinguisher with a minimum capacity of 1 kg by the entrance door as well as a fire blanket next to the cooker. Familiarize yourself with the safety precautions against fire that have been set up on the grounds where you are parked.
(see also Fire protection, Chapter 2.3).



Never use portable cooking or heating devices. The only exception are electrical heating devices (note their power consumption) - but not radiant heaters, because they constitute a fire and suffocation hazard.



Read the manufacturer's operating manuals carefully!



Safety instructions in gas bottle container

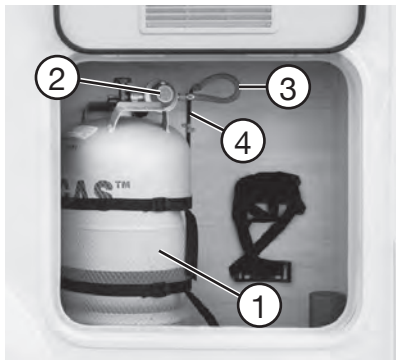
9.2 Gas supply

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

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



Fastening straps



Connected gas bottle

Gas bottle cabinet

The gas bottle container can be accessed separately in the side wall.

The gas bottle container holds two 11 kg liquid gas bottles ①. Via a safety regulator ②, the gas bottles are attached by a hose ③ to the supply line ④. Each bottle is fastened to the wall by two separate belts ⑤.



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

The following applies to the gas bottle cabinet:

- Always check the gas cylinder mountings before driving. Stand the gas cylinders upright and close the valves.
- Pull any loose straps tight.
- The gas-bottle container is not suitable for transporting accessories (e.g. food or electrical devices).
- The stop valves on the gas cylinders must always be easily accessible.
- Do not close the gas bottle cabinet's air vents.
- Ensure that third parties cannot gain access to the gas bottle cabinet.



Gas bottles must be shut while driving if there is no crash sensor* on board.

Changing gas cylinders

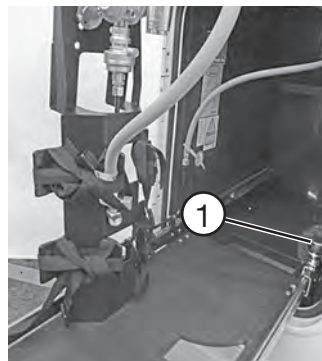


Do not smoke or ignite open flames while changing the gas cylinders. After changing the gas bottles, check whether there is any gas escaping from the tie-in point by spraying it with leak detection spray. When the hose line is connected to the liquid gas bottle, ensure that it is free of kinks and not subject to stress.



The regulator knob must be positioned above the valve on the bottle.
Please note that gas-proof surfaces must always be clean and intact.

- Open the flap of the gas bottle container.
- Close the main stop valve on the gas cylinder. Pay attention to the direction of the arrow.
- Unscrew the gas pressure regulator/ high-pressure hose* by hand from the gas bottle (left-handed thread).
- Loosen the fixing strap and remove the gas cylinder.
- Replace the full gas cylinder in the gas bottle cabinet and carefully fasten it using the fixing straps.
- Screw the gas pressure regulator/ high-pressure hose* by hand on to the gas bottle (left-handed thread).
- **Only when equipped with a crash sensor*:**
Press on the hose rupture protection (green button) on the high-pressure hose (see p. 168).
- Check that gas is not escaping from the connection point using leak detector spray.
- Close the door of the gas bottle container.



Extendable gas bottle container



Extendable gas bottle container with gas bottle

Extendable gas bottle container (only Optima)

The extendable shelf for the gas bottle container makes it easier to exchange the gas bottles.

- To pull it out, pull the locking pin ① up to unlock it.
- To push it back in, push the shelf back to its original position until it noticeably locks into place.



When driving, the extendable shelf for the gas bottle container must always be locked in its original position.



Heating (Oven*) Gas cooker Refrigerator

Gas shutoff valves and valves

A corresponding gas stop valve has been built in for each gas device that has been installed. These gas taps can be used to interrupt the flow of gas to each device. Each tap has been labelled with an icon for the corresponding device.

Place of installation of gas shutoff valves

- In the top drawer in the kitchen unit or behind the cover.



To open the cover, press the upper section towards the kitchen unit. The cover will open up and can be folded down.

The following applies to stop valves and valves:

- All the valves on gas devices must be closed while driving.
- The lower photograph shows the shut off valves when they are closed. To open the valves, they must be turned by 90°. Opened gas stop valves are set in the same direction as the gas line.
- No firing point may be in operation when filling the petrol tank of your vehicle on ferries or in the garage.



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

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

Never carry out leak tests near an open flame.

Gas regulator with a crash sensor *

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

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

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



Please refer also to the manufacturer's separate operating instructions.

When exchanging gas bottles, use the enclosed screw aid to screw and unscrew the high-pressure hoses. This will prevent damage to the screws, which can be caused by using the wrong tools.

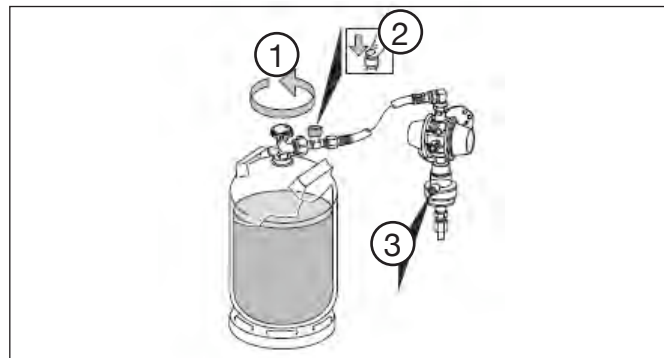


Diagram of MonoControl CS

To operate

- ① Open the valve on the bottle.
- ② Press firmly for approx. 5 seconds on the hose rupture protection (green button) on the high-pressure hose.
- ③ If necessary (e.g. after it has been newly mounted or the gas bottle accidentally hits against the gas pressure regulator system) press firmly for approx. 5 seconds on the green reset button on the MonoControl CS (resets the crash sensor activation element).

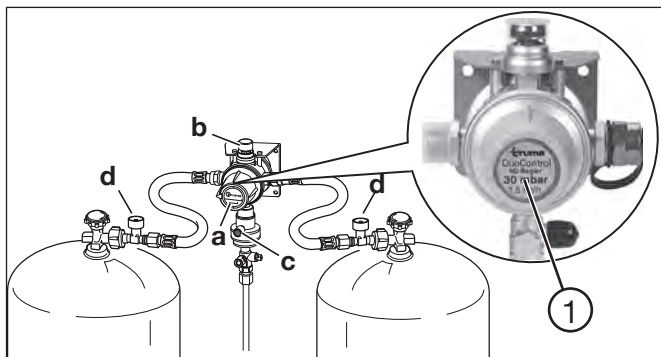


Diagram of DuoControl CS

Switching valve for the two-cylinder gas unit*

The DuoControl CS changeover valve enables you to automatically change from the operating bottle to the spare one. The crash sensor is built into the DuoControl; this permits you to use the heating system while driving.



It operates similar to the MonoControl CS.

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

b Shows the status of the cylinder in use.

Green: full

Red: empty

c crash sensor activation element

d hose protection

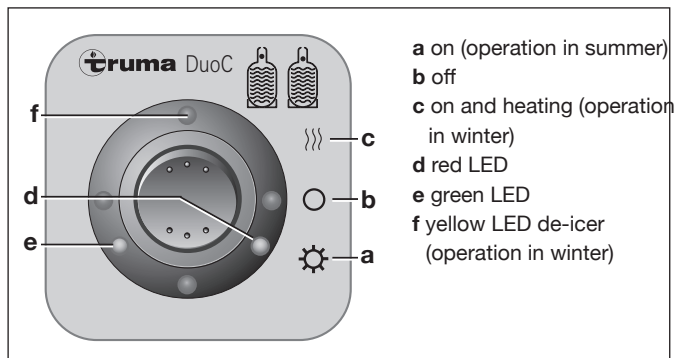
Function

- Attach gas cylinders and open the valves of both gas cylinders. Turn the rotary knob to the left or right as far as it will go (setting it to the centre position enables gas to be extracted from both bottles at the same time).

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



An Ice-Ex cartridge is integrated in the DuoControl CS changeover valve. It prevents the valve from freezing. Please also note the description for the TFT control panel, AUX menu (p. 103).



Remote indicator for DuoControl CS

Remote indicator for the switching valve *

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

Operation in summer

Set switch down to **a**.

LED indicates the status of the bottle in use:

full = green LED lights up

empty = red LED lights up

Operation in winter

Set switch up to **c**.

In addition to indicating the status of the bottle in use, the changeover valve will be heated (yellow LED lights up).

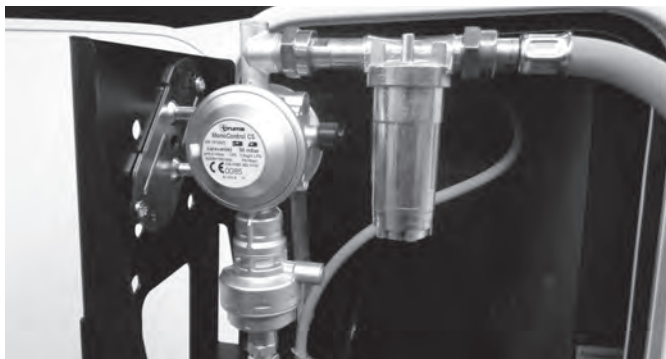


Extendable gas bottle container DuoControl CS

DuoControl in connection with extendable shelf for gas bottle container



To ensure that the two gas bottles in the gas bottle container do not touch anything when they are extended or retracted, the hoses to the gas control knob must be connected exactly as shown in the illustration above.



Gas filter*

As an option, your vehicle can be equipped with a gas filter for the Truma Duo-/MonoControl. Please observe the enclosed manufacturer's operating instructions and change the filter cartridge regularly.

Changing the filter cartridge



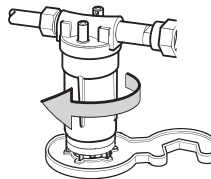
To protect against odours and residue, always use the spare filter supplied with the replacement cartridge. Use only original Truma spare filters (Art. No. 50680-01).

Gas residue: no smoking or naked flames! Turn off the gas bottle before opening it.

Use only the supplied screw aid to open and close the filter casing.

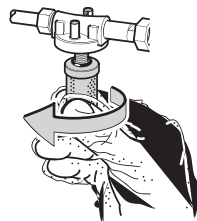
Unscrewing the filter casing

To open

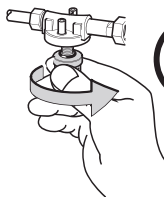


- Remove the residual waste that has been collected in the filter cartridge by wiping it with a soft cloth.

Unscrewing the filter cartridge



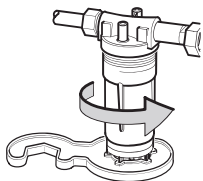
- To protect against odours and residue, wrap the used filter cartridge and cleaning materials in the protective glove.



- Hold the new filter cartridge at the top edge of the plastic part and screw it into place **by hand** (max. 1.5 Nm).

Screwing on the filter casing

To close



The O-ring must be placed correctly in the O-ring groove. It must be absolutely dirt-free.

The sealing edge of the filter casing must not be damaged.

Disposal



Dispose of the used filter cartridge as well as any cleaning materials used in accordance with the legal requirements of the country you are in. National regulations and laws must be observed (in Germany, for example, this refers to the Closed Substance Cycle and Waste Management Act and the waste management by-laws in the individual municipalities). In other countries, the regulations that apply there must be observed.



External gas socket

9.3 External socket for gas *

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



The operating pressure of the device to be connected must be 30 mbar (1 bar = 14.5 PSI). Maximum performance of devices to be connected: 1.5 kW

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

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

If no gas hose has been attached, always use the protective cap to shut the opening of the valve.



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

Chapter 10: Built-in devices

10.1 General Information

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



Built-in devices may only be repaired by specialists.

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

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



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

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

10.2 Heating



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

Exception:

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

10.2.1 Truma Combi Heating System C6 (E)



Truma-Combi-warm air heater

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

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

As an optional extra, the vehicle can be fitted with the Combi E heating system^{*}, which has additional heating rods for electric operation.

Place of installation:

- side seat in the seating arrangement, external storage locker or under the bed.

Initial operation

- Several air vents have been built into the mobile home. Pipes transport the hot air to the air vents. Set the air vents so that the hot air can escape to where it is required.
- Check that the chimney is clear. Remove any covers.
- Open the gas bottle and gas shutoff valve on the gas pipe.



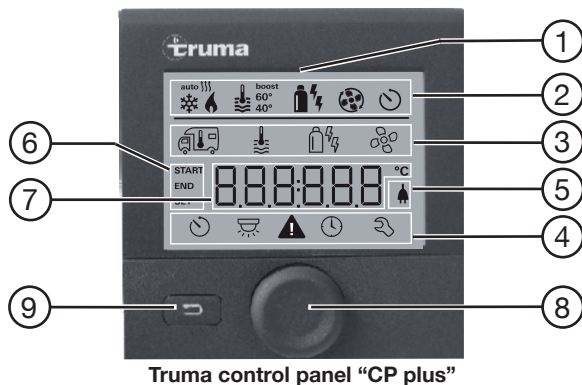
- Only operate the device if it is in perfect technical condition.
- Always have malfunctions repaired immediately. Only repair malfunctions yourself if such malfunctions are described in the troubleshooting instructions in this manual.
- Do not carry out any repairs on or make any changes to the device.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



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

Use the panel by the entrance to operate the basic functions of the Combi heating system (**see Chapter 7**).

The change to the iNet-ready version was carried out during the current season. Depending on when the trailer was manufactured, iNet-ready functions are available, whereby the Truma CP plus control panel functions as an interface for operating connected devices via the Truma App and iNet Box.



Operating and display controls

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

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

Adjusting knob / pushbutton

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



Turn to the right (+)

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



Turn to the left (-)

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



Press the button briefly

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



Press (3 seconds)

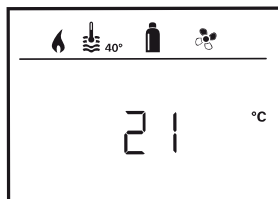
- Main function ON / OFF
- iNet-ready: use the adjusting knob / pushbutton to change the function (see APP mode)

Reset button

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

To operate

Start / stand-by screen



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

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

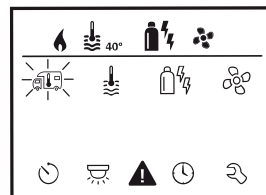


When the time is set (see "Setting the time") the display alternates between the time and the room temperature that has been set. If no time has been set, the set room temperature will be displayed permanently.

Functions

The functions in the menu lines ③ and ④ of the control panel can be selected in any sequence. The operating parameters are shown in the status line ② or in the display ⑤ and ⑥. Functions may vary, depending on the equipped fittings and model.

Selecting the setting mode



Press the adjusting knob / push-button

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

To switch on/off

To switch on

- Press the adjusting knob / pushbutton.



Previously set values / operating parameters will be reactivated after the control panel has been switched on.

To switch off

- Press the adjusting knob / pushbutton for longer than 4 seconds.
iNet-ready: After 2 seconds, "APP" appears on the display; after a further 2 seconds, "OFF" appears on the display.



Due to an internal lag feed in the heating or air-conditioning system, it may take a few minutes for the Truma CP plus control panel to switch off (during this time, "OFF" appears in the display).

APP mode in connection with an iNet Box

Function

In APP mode, the connected devices as well as the Truma CP plus control panel switch to stand-by.

- no heating function
- no hot water generated
- air-conditioning system does not work
- the timer on the Truma CP plus control panel does not work

The CP plus control panel continues to receive commands via the Truma APP or the air-conditioning system's infra-red remote control. The connected devices can still be operated.

Turning on the APP mode

- Press the adjusting knob/pushbutton approx. 2 seconds until "APP" appears on the display.
- Let go of the adjusting knob/pushbutton.
- The previously saved values will be saved.

Turning off the APP mode

The APP mode is turned off

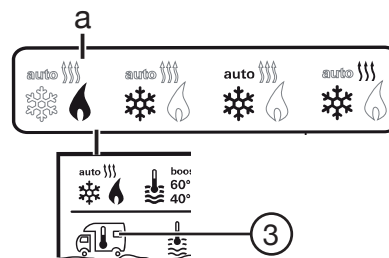
- when new values are transferred via the Truma APP or the air-conditioning system's infra-red remote control;
- when the Truma CP plus control panel is alerted by pressing the adjusting knob/pushbutton. The previously saved values will then be imported for renewed operation.



Changing the room temperature

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

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



a = heating¹⁾

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

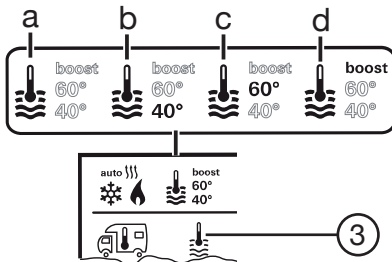
¹⁾ The icon will continue to blink as long as the desired room temperature has not been reached.



Changing the hot water temperature

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

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



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

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

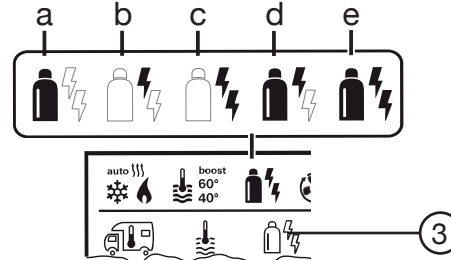
¹⁾ Hot water temperature of 40°C can only be maintained at 40°C for a limited period of time if both the room and the water are being heated.



Selecting the type of energy* (for Combi-E heating only)

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

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



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

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

Electric heating power: Level 1: 900W; level 2: 1800W



Before switching on the electric heating, please ensure that the fuse protection of the electrical supply at the campsite corresponds to the power setting you have selected.



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

Special features in mixed operation

Interrupting the 230V power supply:

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

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

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

Special features in electric operation

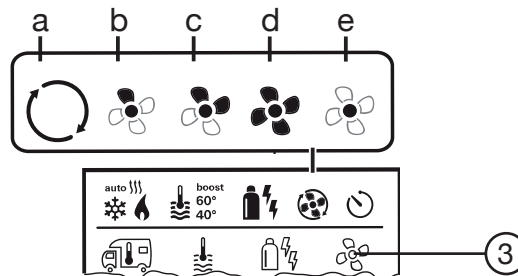
- If the 230V power supply is interrupted and the 12V supply has been switched on, an error code will be shown on the display.
- As soon as the 230V power supply has been reinstated, the heating system will automatically be restarted using the previous settings. The error code will disappear.



Selecting the fan speed

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

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



Icon	Type of operation	Description
-	OFF	Fan is switched off. (Can only be used if no device is being operated.)
a	VENT ¹⁾	Air circulation, if no device is being operated. RPM can be selected in 10 increments.
b	ECO	Automatic regulation of the fan depends on the heating power, optimised for the current heating requirement.
c	HIGH ²⁾	High fan speed

- d BOOST** To heat room rapidly
Available if the difference between the selected and the actual room temperature is more than 10°C.
- e NIGHT** Heating runs on a partial load only; the set room temperature may not be reached (depending on the size of the vehicle and the outside temperature).

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



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



Setting the timer

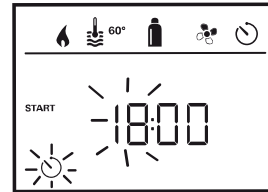


The timer can only be selected if the clock on the control panel has been set.
If the timer has been activated (ON), the menu item Activate timer (OFF) is first displayed.

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

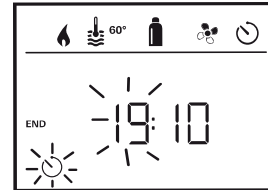
- Press to switch to the setting mode.

Entering the start time



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

Entering the end time



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



Danger of poisoning from exhaust fumes.

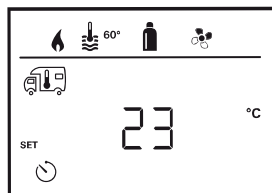
The activated preselection timer switches the heating on even if the mobile home has been parked. In closed rooms (such as garages, workshops) the exhaust fumes from the heating can lead to poisoning. If the recreational vehicle is parked in a closed room:

- close the fuel supply (gas) to the heating system;
- deactivate the preselection timer on the Truma CP plus control panel (OFF);
- switch the heating off on the Truma CP plus control panel.



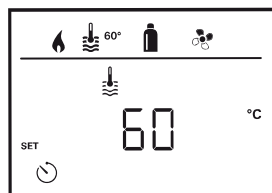
If the start/end time was exceeded during entry, the operating parameters will only be taken into account after the next start/end time has been reached. Until then, the operating parameters set outside the timer will remain valid.

Setting the room temperature



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

Setting the hot water temperature



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

Selecting the type of energy * (for Combi-E heating only)

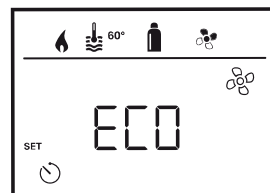


- Use the adjusting knob / push-button to select the desired type of energy.
- Press the adjusting knob / push-button to confirm the temperature.



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

Selecting the fan speed

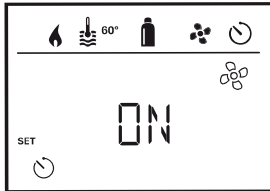


- Use the adjusting knob / push-button to select the desired fan speed.
- Press the adjusting knob / push-button to confirm the temperature.



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

Activating the timer (ON)

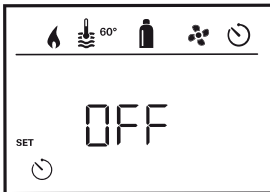


- Use the adjusting knob / pushbutton to activate the timer (ON).
- Press the adjusting knob / pushbutton to confirm the time entered.



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

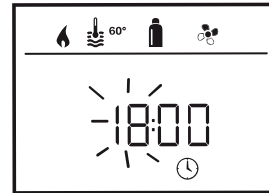
Deactivating the timer (OFF)



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



Setting the time

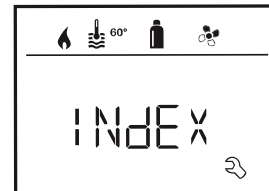


- The hours blink.
- Use the adjusting knob / pushbutton to set the hours (24-hour mode).
- After pressing the adjusting knob / pushbutton once again, the minutes will blink.
- Press the adjusting knob / pushbutton to confirm the time entered.



Service menu

To show the version number of the connected devices



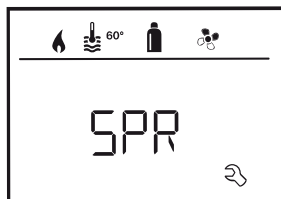
Show the version number of the heating or control panel.

Changing the background illumination of the control panel



The background illumination can be changed in 10 increments.

Changing the language



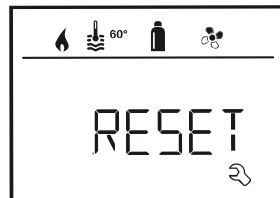
Select the desired language from the languages available (e.g. English, German, French, Italian).

Calibrating the temperature sensor (OFFSET)



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

Resetting to manufacturer's default setting (RESET)

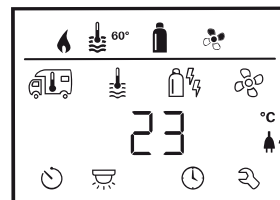


The reset function resets the control panel to the manufacturer's default setting. It deletes all of the settings you have made.

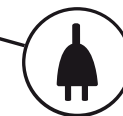
Confirming the reset

- Press the adjusting knob / pushbutton

Display: 230V mains voltage



The icon signals that the 230V mains voltage (shore power) is available.

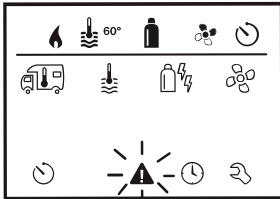


This can only be displayed in connection with a Combi E CP plus heating system that includes additional heating rods for electric operation (optional extra).

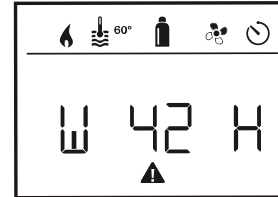


Warning

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



Reading out the warning code



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

W = Warning

42 = Error code

H = Heating

Cause eliminated / Return to setting mode

- Press the adjusting knob / pushbutton.

Cause not eliminated / Return to setting mode

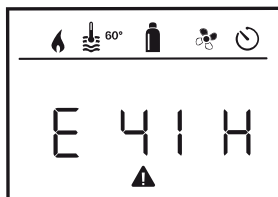
- Press the reset button.



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

Malfunction

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



E = Malfunction

41 = Error code

H = Heating

Cause eliminated / Return to setting mode

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



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

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

Cause not eliminated / Return to setting mode

- Press the reset button.



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

Maintenance

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

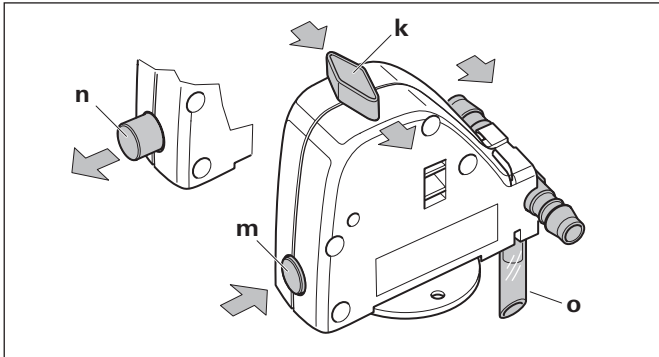


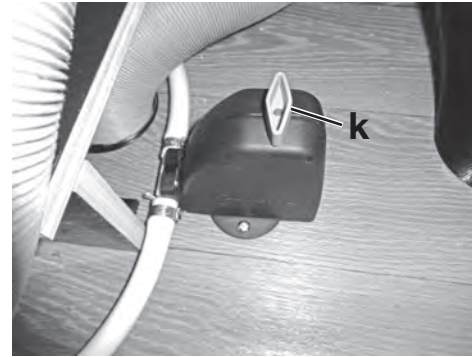
Diagram of Frost Control

FrostControl

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

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

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



Safety valve for boiler (Frost Control)

To activate

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

To deactivate

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



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

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



Hot air valve

Hot air valve in alcove (for Siesta De Luxe only)

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

The hot air slider is located on the side wall of the alcove.



Alde hot water heating system

10.2.2 Hot-water heating system* (modelspecific)

The Compact 3020 HE heater is a hot-water heating system which heats hot water separately (contents: 8.5 l). It is possible to heat up the heating system without filling the hot-water heater with fresh water.

Location

- In the wardrobe.

Important information

- Please read the separate operating instructions carefully before initial operation of the heating system.

- Always turn off the main switch for the heating system whenever the vehicle is not in use.
- If there is danger of frost, always drain off the fresh water in the hot-water heater (**see 8.2**).
- You may not start the heating if the device has not been filled with glycol.
- To make the best possible use of the convection principle, the air must not be prevented from circulating throughout the motorhome, e.g. behind the back cushions, winter ventilation slots, in the bed frame and behind the stowage cupboards.



Check the amount of liquid in the expansion tank at regular intervals. When the heating is off, the liquid should be approx. 1 cm above the "Min" mark.

Modes of operation

- LPG operation
- Heating cartridge operation (230 V)
- Combined LPG and heating cartridge operation

Function modes

- Water heating
- Heating and water heating
- Heating

Operating device

When in the idle position, the device shows which heating functions have been activated; the background lighting of the display is off.

After two minutes, the operating device automatically switches from the set position to the idle position if no button has been pressed or if the idle position has been set using the arrows.



For further detailed information on operation, handling and maintaining the hot-water heating system, please refer to the separate operating instructions for "Alde Compact 3020 HE".

Use the panel by the entrance to operate the basic functions of the hot-water heating system (**see p. 101**).

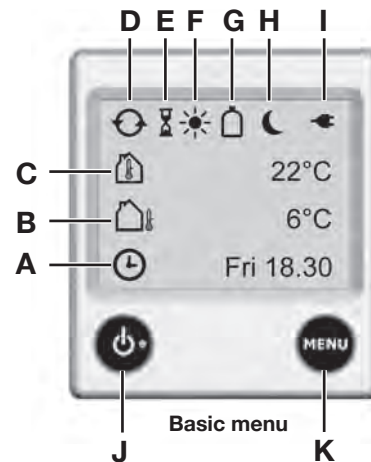
If the hot-water heating system is on, the waste water tank will be heated electrically. Please refer to the descriptions on **p. 95**.



Control panel for the hot water heating system

To start the hot water heater

To start the heating system, press the On/Off button and the start image will appear. The heater will start with the settings that were last used.

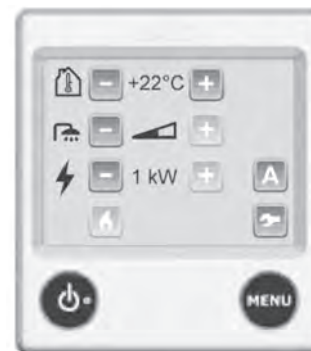


Idle position

- A. Clock.** The clock shows the date and time (when activated).
- B. *Outside temperature.** The outside temperature is displayed.
- C. Inside temperature.** The inside temperature is displayed.
- D. Circulation pump.** This icon is displayed when the circulation pump is in operation.
- E. Starting the heating system automatically.** This icon is displayed when this function has been activated.
- F. Daytime automatic system.** This icon is displayed when this function is activated.

- G. *Liquid gas bottle full/empty.** This icon is displayed when the sensor on the gas regulator of the bottle is connected and has been activated. If a de-icer* has been installed, the icons will be displayed for the set mode together with the bottle icon.
- H. Nighttime automatic system.** This icon is displayed when this function is activated.
- I. 230 volts.** This icon is displayed when a voltage of 230 V is applied to the heating system.
- J. On/Off button.** Main switch for the heating system.
- K. MENU key.** Key for the settings menu.

The functions marked (*) are accessories. They have not been installed in every vehicle.



Settings menu

Settings menu

Start the settings menu by pressing the MENU key. The backlight goes on and those functions that can be set will be displayed. The control unit will switch to the idle position after 30 seconds if the screen is not operated.



Setting the desired temperature

The temperature can be set from +5 °C to +30 °C in steps of 0.5 °C.

1. The temperature shown is the temperature presently set.
2. Raise the temperature by pressing "+". Lower the temperature by pressing "-".
3. The settings are now finished and the heating will run until the set temperature has been reached.



It is not possible to set any temperature if the daytime or nighttime automatic system is in operation. The plus and minus icons are then greyed out.



Hot water

The boiler can also be used even if it has not been filled with fresh water.

1. No hot water.

If you do not need hot water, press "-".

(The icon  is empty).



It is not possible to make any settings for hot water if the daytime or nighttime automatic system is in operation and you have switched off the hot water. The plus and minus icons are then greyed out.

2. Normal operation.

If there is fresh water in the tank and you would like to have hot water, press "+".

(The icon  is half full.)



If the "Operation" function for the pump has been set to "Cont", you cannot select this.

3. More hot water.

Should you need more hot water, you can temporarily increase the water temperature to approx. 65 °C. Press the plus key "+".

(The icon  is full.

After 30 minutes, the hot-water heater will switch back to normal operation. If you have selected more hot water, the circulation pump will continue to operate.



If the "Operation" function for the pump has been set to "Cont", the function "Permanent pump operation" will be disabled for 30 minutes, but then returns to permanent pump operation.

You do not need to make any settings if you only require hot water, for example in summer when no further heating is required. The heating system will control this function automatically.



Heating with electricity

Use the following procedure to activate the "Heating with electricity" function. The higher the selected output, the faster the camper will heat up.

If electricity and gas are selected together, you can set whether gas or electricity is to take priority (**see Tools menu**). The boiler uses no higher output than is required, even if 3 kW has been selected.

1. Starting and changing the different heating levels step by step (**Off, 1 kW, 2 kW or 3 kW**) with "+" or "-". The value set will be displayed on the screen. When activated, the plus icon is shown in green.
2. To switch off the electric heating operation, keep pressing the "-" key until you reach **Off**.

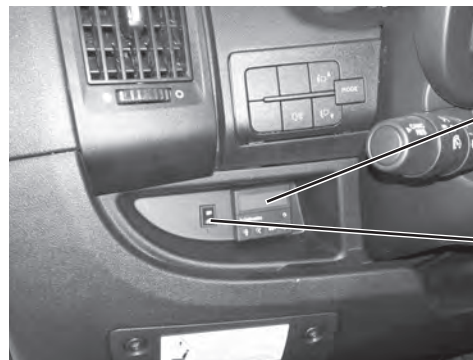


Heating with gas

To activate heating with gas:

If electricity and gas are selected together, you can set whether gas or electricity is to take priority (**see Tools menu**).

1. Start gas operation by pressing on the liquid gas flame.
The icon for liquid gas is activated and turns green.
2. To switch off gas operation, press the liquid gas flame.
The icon is now blue.



Control
switches on
dashboard

Toggle switch

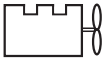
Control panel for preselection timer

10.2.3 Webasto auxiliary heating*



- Set the heating in the vehicle to “warm” before switching on the heating device.
- Set the vehicle's heater fan to the lowest possible level when the heating is in continuous operation. This guarantees an optimally regulated current supply.
- To heat the vehicle quickly, set the fan to a higher level.

Toggle switch motor/cabin



Motor icon pressed:

- The heating device will also heat the vehicle's motor. It is also possible to heat the superstructure.
- Heating is limited to a maximum of 60/120 minutes (if the preselection timer is used: always 60 minutes; if the telestart function is used: select from 10-120 minutes).



Cabin icon pressed:

- The heating device will predominately heat the front area of the superstructure.
- Duration of heating time: unlimited, irrespective of control panel. This enables the heating system to remain in continuous operation, as is customary in a mobile home.



In general, the heating system may also be used while driving, e.g. to supplement the heating for the motor, which may not be sufficient.

Before leaving the mobile home, check whether the heating system should continue to operate while the vehicle is empty. If not, the heating system must be turned off manually.



The control panel can be used to activate the preselection timer. Please refer to the manufacturer's separate operating manual for information on the functions of the preselection timer and further instructions for the heating device.



Super Slim Tower



Dometic

10.3 Refrigerator

Refrigerators made by Dometic will be installed.

If the external temperature is high, full refrigerating capacity can only be ensured by means of sufficient ventilation. To achieve better ventilation, ensure that the side of the mobile home with the refrigerator ventilation grids stands in the shade (**see Chapter 5.1**).



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



Lock on the (Super)Slim Tower



Lock on the Dometic

Refrigerator door lock



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

(Super) Slim Tower:

To close the refrigerator, press the door shut.

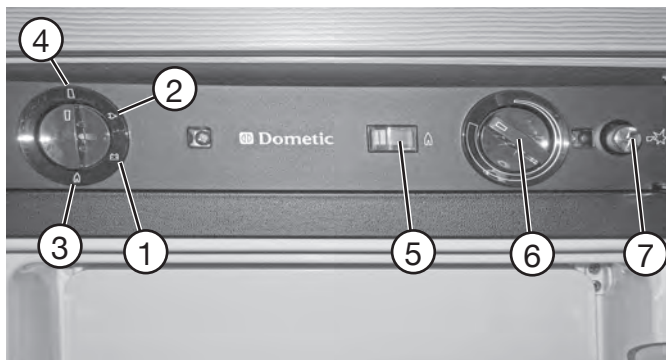
Dometic:

Opening

- Press the push button and pull open the refrigerator door.

Closing

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



Operating the refrigerator

Modes of operation

Three modes of operation are possible for the refrigerator. The desired mode of operation is set using the energy selection switch.

- 12V operation: power is supplied via the generator ① (motor is on).
- 230 V operation: power is supplied from an external source ②.
- Liquid gas: gas bottles from the mobile home ③.

12 V operation

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

- Turn the energy selector switch to battery operation ①.
- The refrigerator runs without a thermostatic control (continuous operation). 12 V operation should, therefore, only serve to maintain a temperature which has already been achieved.
- To turn the refrigerator off turn the energy selector switch to the 0 position ④.

230 V operation

- Turn the energy selector switch to mains ②.
- Use the thermostat ⑥ to regulate the temperature. No absolute temperature values have been assigned to the temperature levels.
- To turn the refrigerator off turn the energy selector switch to the 0 position ④.

Gas operation

- Turn the energy selector switch to gas operation ③.
- Open the main stop valve on the gas cylinder and the “Refrigerator” gas stop valve.
- Turn the thermostat ⑥ up full and keep it pressed down. The refrigerator will ignite by pressing the button for manual ignition ⑦.

- If gas operation has been activated, then the indicator in the control window will move into the green zone ⑤. Only release the button when the the indicator is in the green zone.
- Use the thermostat ⑥ to regulate the cooling capacity. No absolute temperature values have been assigned to the temperature levels.
- To turn the refrigerator off turn the energy selector switch to the O position ④
- Close the main stop valve on the gas cylinder and the “Refrigerator” gas stop valve.



It is not permitted to operate the refrigerator with gas

- while driving (exception: when equipped with a crash sensor)
- at petrol stations
- while the vehicle is being transported by means of a transport or towing vehicle.

This may cause a fire.

- Goods that might emit readily volatile or flammable gases must not be stored in the refrigerator.
- Always store perishable food directly next to the cooling fins or as close to the bottom of the refrigerator as possible.



It is not suitable for freezing food nor for the proper storage of medication.



Environmental conditions influence the performance of the refrigeration unit. The system reacts sluggishly to changes in the thermostat regulator, loss of cold when opening the door or storing goods. Use the winter cover if the temperature is below +10°C (Dometic accessory). If the temperature stays above +32°C, an additional fan (Dometic accessory) should be installed

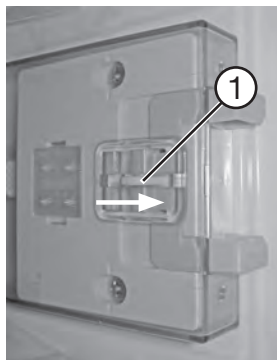
Turn on the refrigerator at least 12 hours before putting anything in it.

Storing food

- Food should always be stored in closed containers, aluminium foil or similar materials.
- Never store heated food in the refrigerator; always let it cool off first. If possible, store only pre-cooled goods.



Normal position



Ventilation position

If not in use for a longer period of time, the refrigerator should be switched to the ventilation position to prevent bad odours.

To activate the ventilation position, light press on the slider ① to pull it forwards.



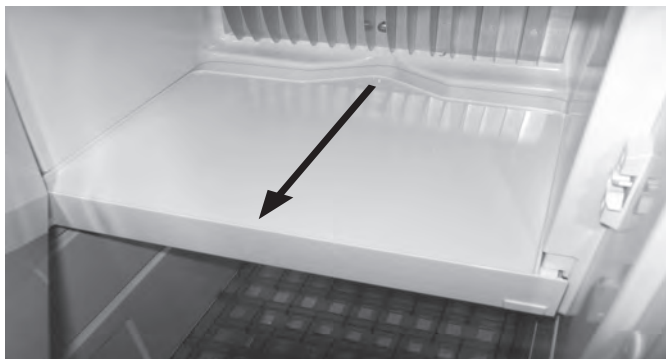
Unlocking the base of the freezer

Removable freezer ((Super) Slim Tower)

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

To remove the freezer

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



Removing the base of the freezer



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



3-burner gas cooker

10.4 Gas cooker

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

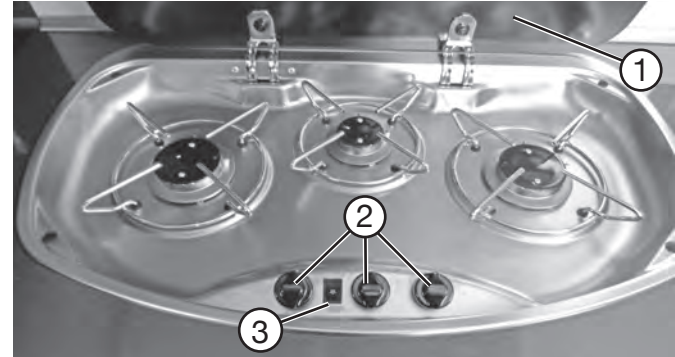
Before initial operation

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



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

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



Bedienelemente für Gaskocher

Operation

- Use the main switch on the Control Panel to turn on the 12V power supply.
- Turn the tap to the side and lift up the glass cover ① .
- Turn the adjusting knob ② of the burner you wish to use to the ignition position (large flame), press it and hold it pressed.
- Use the ignitor ③ to ignite the flame; keep pressing the ignitor ③ until the flame comes on.
- Continue to press the rotary switch ② for a further 5-10 seconds to ensure that the automatic flame guard takes effect.

- Release the rotary switch ② and turn to the desired setting (large or small flame).
- If ignition was unsuccessful, repeat the procedure.
- To turn off the gas flame, turn the rotary switch ② back to the “0” position
- Close the gas cooker's gas stop valve.

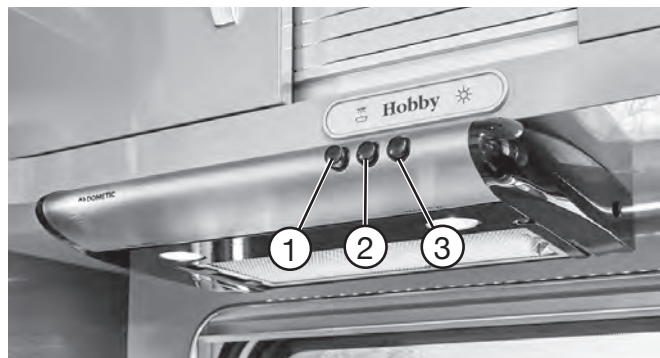


Use oven gloves or potholders when handling hot pots, pans or similar objects. **Danger of injury!**

Never allow gas to escape without burning. Danger of explosion!

Do not shut the glass cover ① (p. 201) after cooking until the burners stop giving off heat. Otherwise, the glass cover could burst.

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



Fume Hood

10.5 Fume Hood *

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

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



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



Oven Dometic
10.6 Oven *



- The ventilation openings on the oven must never be closed.
- A skylight or window must be opened when operating the oven.
- Open the shutoff valve for the oven. Should you smell gas, immediately close the valve and the gas bottles.
- The oven door must remain open while igniting the oven.
- Never operate the oven when it is empty (i.e., without food that is to be heated).
- Never use the oven to heat the motor home.



- Under no circumstances may this device be plugged into the 230V mains!
- Never operate the oven while driving!



Please refer to the separate manufacturer's operating manual.

Preparation

- Open the gas shutoff valve for the oven.
- Switch on the 12 V power supply using the main switch on the control panel.
- Open the oven door completely.
- Position the baking tray or grill so that it is not in direct contact with the flame.

Turning on oven Dometic

- Turn on the flame adjuster ① and hold it pressed for 10 seconds until the flame is burning steadily.
- Let go of the flame adjuster ① and turn it to the desired temperature. The flame must burn steadily.
- After approx. one minutes, carefully close the oven door so that the flame does not go out.

FOR OVEN GRILL ONLY (model-specific):

- Turn on the flame adjuster, press it and turn to the left to ignite the oven or to the right to ignite the grill.

Turning on oven Thetford

- Lightly press on the flame adjuster and turn it to the desired ignition position.
- Press the flame adjuster.
- Keep pressing the flame adjuster for 10 seconds until the ignition safety valve keeps the gas supply open.
- Let go of the flame adjuster and turn it to the desired temperature. The flame must burn steadily.
- After approx. one minutes, carefully close the oven door so that the flame does not go out.



- If it has not ignited, repeat this procedure from step 1.
- Should the flame on the burner accidentally be extinguished, turn the switch back to the neutral position and leave the burner off for at least one minute before igniting it again.

Turning off the oven

- Turn the flame adjuster to the zero position.
- Close the main shutoff valve on the gas bottle and the gas shutoff spigot marked “oven”.



Rooftop Air Conditioning

10.7 Rooftop Air Conditioning *

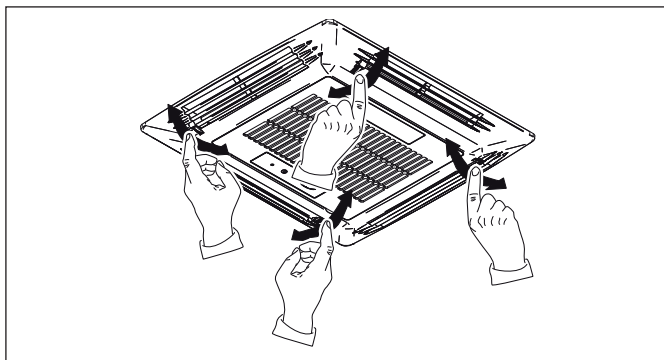
The air conditioner is located instead of the roof bonnet on the living room ceiling.

Use the TFT display to set the roof air-conditioning system (see **Chap. 7.3 Installation of electrical devices**).

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



- Ensure sound thermal insulation; seal chinks and cover up glass areas.
- Do not plug or cover up air intakes and openings.
- Do not spray water into the air conditioner.
- Keep all easily inflammable material away from the system.
- Keep all doors and windows closed and only air thoroughly occasionally. When the windows are open, warm (and, therefore, humid) air will flow into the camper where it is cooled down. The resultant moisture will condense inside the camper.



To set the direction of ventilation

To set the direction of ventilation

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



10.8 Satellite System* (standard in Optima Ontour Edition model)

The satellite system is CI-BUS compatible and, therefore, it can be controlled by means of the control panel next to the entrance (**exception: Optima Ontour Edition model**).



More information on how to operate the system via the TFT-control panel can be found in **Chapter 7**.

The satellite system is suitable for all types of receivers or any TV with a satellite tuner. It offers special functions, e.g. the normal TV programme can be transmitted via cable while, at the same time, another programme can be streamed on mobile devices. When the programme is changed, the system automatically aligns itself to other satellites.



- When driving, the satellite system must be lowered to its park position. Increasing the normal height of the trailer by means of an antenna that has not been lowered can increase the risk of accidents. The car driver is solely responsible for the condition of the superstructures and fittings. The antenna is automatically lowered when the motor is started.
- A maximum speed of 130 km/h is permitted.
- Should there be a gale or thunderstorm, both the turnable satellite dish as well as the vehicle itself may be damaged.



- The satellite system has an emergency stop in the event of an overload.
- Malfunctions or damage to the satellite system itself may occur if it is operated outside the suitable temperature range of -20° C to +45° C.
- When driving, the antenna is subject to the force of vibration. Depending on how often you drive, check the system regularly to determine whether it is firmly secured and tighten any loose parts.
- Please refer also to the separate manufacturer's operating instructions.

In the Optima Ontour Edition series, the SAT system is included as part of a package together with a special TV. This TV enables the SAT system to be controlled directly via the TV. Therefore, no further control units or devices are required.

Controlling the SAT system in the Optima Ontour Edition model

Setting the satellite

To position the SAT system, activate the KATHREIN satellite control.

1. As soon as the TV has been switched on, a message appears on the screen, asking whether the antenna should be positioned. Press Enter to confirm.
2. The antenna automatically positions itself to 19.2°.

After the initial positioning of the antenna, the system remembers the satellite's position and returns to it the next time the TV is switched on.



If the antenna should not find a position within three minutes, press the red "GoTo" key on the remote control and check your position in the control menu. Then repeat the antenna position request.

Should the antenna be blocked by branches or ice on the roof while it is being extended, a warning will appear on the TV screen. In this case, remove any hindrances within the antenna's rotating area.

Among other things, initial settings can be made and a channel search can be carried out in the TV menu. In this connection, please refer also to the device manufacturer's operating manual.

Chapter 11: Accessories

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

- Any changes to the status of the mobile home as set by the manufacturer may endanger the driving performance and roadworthiness of your vehicle.
- Any accessories, add-ons, modifications or mounted parts that have not been approved by HOBBY may cause damage to the vehicle and impair its roadworthiness. Even if an expertise, 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 mobile home and are not included in the standard scope of delivery, they must be taken into consideration when determining the full load.

Object	Weight[kg]
Motorisation / Chassis (cannot be retrofitted)	
FIAT Ducato 2.3 l - 150 Multijet II, 6-gear manual, 2,287 ccm, 110 kW/150 PS	11.0
FIAT Ducato 2.3 l - 180 Multijet II, 6-gear manual, 2,287 ccm, 130 kW/177 PS	11.0
FIAT low-frame chassis Maxi, 4,250 kg (130 PS) or 4,400 kg (150 PS and 177 PS)	40.0
Increased load/reduced load	
Load decreased to 3.5 t without technical changes (reduction achieved by removing one or more permitted seats)	0.0
Load increased to 3.65 t without technical changes (the trailer load may possibly be reduced by the load)	0.0
Load increased to 3.85 t with technical changes/additional laminated gold spring, only in connection with 15" rims (the trailer load may possibly be reduced by the load)	15.0
Rims	
Metal / light alloy rims 16", Original FIAT	16.0
Base vehicle / Chassis (cannot be retrofitted)	
Air-conditioning, automatic	0.0
Automatic transmission, FIAT Comfort-Matic	17.0
Diesel tank, 120 litres instead of 90 litres	28.0
Fog lights	2.0
Mud flaps, rear	2.0
Tow coupling SAWIKO, rigid/detachable	29.0

Object	Weight[kg]
Design variations	
Traction unit painted black, radiator grill silver, black décor	0.0
Traction unit painted graphite-grey or black (cannot be retrofitted)	0.0
Driver's cab	
Thermal curtains incl. insulation of floor room	4.5
Superstructure	
Bicycle carrier ALULINE for 2 bicycles, carrying capacity: 50 kg (Premium)	8.0
Bicycle carrier ALULINE for 3 bicycles, carrying capacity: 50 kg (Premium)	9.0
Bicycle carrier SAWIKO Mikro for 4 bicycles, carrying capacity: 120 kg	30.0
Bicycle carrier THULE for 2 bicycles, carrying capacity: 60 kg (De Luxe)	8.0
Bicycle carrier THULE for 3 bicycles, carrying capacity: 60 kg (De Luxe)	11.0
Bicycle carrier THULE for 4 bicycles, carrying capacity: 60 kg (De Luxe)	14.0
Entrance door, extra-wide, with double lock, window, waste bin and storage compartments	1.0
Roof bonnet DOMETIC-SEITZ Midi-Heki 700 x 500 mm instead of Mini-Heki at rear with blinds and insect screen in sleeping area	4.5
Roof bonnet DOMETIC-SEITZ Mini-Heki 400 x 400 mm with blinds and insect screen in the alcove	3.1

Object	Weight[kg]
Tail stanchions	6.0
Windows	
Framed window, hinged, double glazed and tinted, for standard window / incl. sliding window in the kitchen	8.0
Framed window, hinged, double glazed and tinted, near the alcove bed on the driver's side, 450 x 260 mm	2.0
Framed window, hinged, double glazed and tinted, near the double bed on the driver's side, 740 x 360 mm	4.0
Hanging window panel, hinged, double glazed and tinted, near the alcove bed on the driver's side, 880 x 260 mm	1.4
Hanging window panel, hinged, double glazed and tinted, near the double bed on the driver's side, 740 x 360 mm	3.2
Upholstery combinations	
"Real leather", available in cream white or cream white and brown	2.0
Upholstery combination "Avus" / "Capri" / "Mali" / "Nevada" / "Taiga" / "Patch" / "Florenz" / "Sari" / "Vigo"	0.0
Living room	
Fitted carpet, living room, removable	10.0
L-shaped seating arrangement w/ elevating table, swivels 360° (model-specific)	15.0
Kitchen	
Fume hood, DOMETIC	3.0

Object	Weight[kg]
Oven with electric ignition and lighting	16.0
Slim Tower refrigerator, DOMETIC, 140 litres, incl. removable 12 litre freezer compartment	8.0

Sleeping area

Bed expansion for FROLI comfortable bed system, incl. memory foam mattress and ladder	5.0
Bed expansion incl. memory foam mattress and ladder	4.8
Bedspread and decorative pillow	1.5
Comfortable bed system FROLI	2.7
Cushion for converting seating arrangement into a bed	2.0
Low single beds, height: 900 mm, and clothes cupboard at rear end	-11.0
Queen-sized bed, height adjustable	20.0

Water / gas / electricity

230V external socket in outer tent, incl. satellite/TV connection	0.4
Additional AGM battery AGM 12 V / 95 Ah	28.0
Additional socket 12 V	0.5
Additional socket 230 V	0.5
Gas filter TRUMA for Mono- or DuoControl	0.4
Gas pressure regulator TRUMA DuoControl incl. automatic changeover system, crash sensor and de-icer	3.0
Gas pressure regulator TRUMA MonoControl CS incl. crash sensor	1.0
Gas socket, external	1.5

Object	Weight[kg]
HOBBYCONNECT, remote control for on-board equipment via app	1.2
Outside shower (cold water)	0.5
Preparation for solar system	1.0
Remote indicator for gas pressure regulator TRUMA DuoControl	0.6
USB twin charger socket, 1 each for living room and bedroom	0.0
Wireless alarm system with gas alarm for narcotic gases, propane and butane	1.0

Heating / air-conditioning

Auxiliary heating WEBASTO Thermo-Top	9.5
Heating TRUMA Combi 6 E instead of Combi 6	1.1
Hot-water heating ALDE Compact-3020 HE incl. CI-BUS	41.5
Preparation for roof air-conditioning system	1.5
Roof air-conditioning system DOMETIC FreshJet incl. CI BUS with heating function, without lighting, 2.2 KW	32.0

Multimedia

Additional mounting bracket for flat-screen TV	2.0
DAB+ for navigation system	1.0
LED flat screen 19" incl. tuner/receiver and DVD player	2.7
Satellite system KATHREIN CAP 650 incl. TWIN-LNB	15.0

To ensure the minimum additional loads legally required in Germany, the following regulations apply for the models listed below that have a technically permissible maximum weight of 3500 kg:

Siesta De Luxe:

Model	Permissible no. of seats	Technically permissible maximum weight	PLEASE NOTE:
A65 GM	6	3500 kg (reduced load)	No optional extras allowed.
A70 GM	5	3500 kg (reduced load)	
A70 GM	6	3500 kg (Touring Cars Edition)	

Optima De Luxe / Premium:

Model	Permissible no. of seats	Technically permissible maximum weight	PLEASE NOTE:
T70 HGQ	3	3500 kg (reduced load)	Only deviating motorisation and automatic transmission permitted.
T75 HGE	3	3500 kg (reduced load)	
T75 HF	3	3500 kg (reduced load)	



Optional extras that have no effect on the weight are exempted from this regulation.

Subsequent fittings, such as a tow coupling or eBike carrier, are subject to approval by the pertinent authorities (see 3.5 Fittings). Those models listed with a technically permissible maximum weight of 3500 kg will lose the possibility to be registered if fittings subject to approval are subsequently installed.



These restrictions no longer apply as soon as the load of these vehicles is increased. Optional extras can then be selected/subsequently fitted without restriction, provided the reserves for additional loads are observed and taking model-specific regulations into account.

Chapter 12: Maintenance and Care

12.1 Maintenance

Maintenance intervals

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

The following applies for maintenance intervals

- The initial maintenance check should be carried out by an authorised HOBBY dealer no later than 12 months after the initial registration date.
- All further maintenance should be carried out once a year by a HOBBY dealer.
- The maintenance of the basic vehicle as well as all built-in equipment should be carried out at the intervals given in each operating manual.



The inspection of the gas system and flues, for which a fee is payable, should be carried out regularly by a liquid gas expert in accordance with national regulations (annually in Great Britain). The inspection of the gas facilities (subject to extra cost) is to be repeated every 2 years by a liquid gas expert. This inspection is to be conducted and certified in accordance with the German Association of Gas and Water Experts, worksheet G 607, and EN 1949. The operator is responsible for scheduling this inspection.



Replace safety regulator knobs and hoses after 10 years at the latest!

Note that high-pressure gas hoses must be replaced after 5 years.

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



Also note the maintenance intervals for the basic Fiat or Citroën base vehicle.

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 inquire whether they have the necessary capacity (e.g. an adequate car lift) in order to avoid any misunderstanding.

12.2 Brakes

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

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



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

The following applies when maintaining the brake system

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



For further information, please refer to the Fiat Ducato or Citroën Jumper operating instructions.

12.3 Changing the rear lights



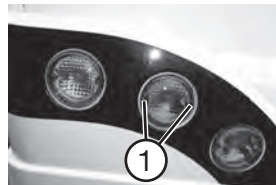
If several lamps have to be replaced, take care to ensure that they are not accidentally switched and that everything is put back in its original place.

Before changing lamps, disconnect the power supply in the vehicle and switch the ignition off.

Lamps can be hot!

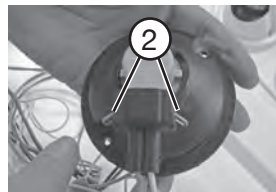
Ensure that no liquids (e.g. rain) flow into the covers.

Siesta



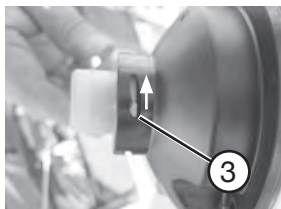
Optima rear light

- Unscrew the two screws ① in the defect lamp.



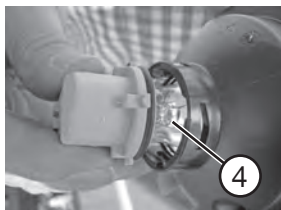
Removing the cable

- Remove the defect lamp from the lighting support and pull out the cable by pressing the two clamps ② together.



Guiding the pin in the direction of the arrow

- Unscrew the light bulb from the lamp by turning the pin ③ in the direction of the arrow.



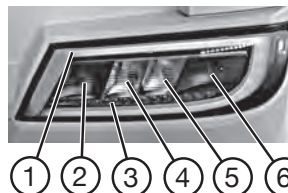
Removing the bulb from the socket

- Unscrew the light bulb from the socket ④ and exchange it for a new one.
- Carry out this procedure in reverse.

Optima Ontour Edition/De Luxe



The LED components in the rear light cannot be changed separately. In case of defects, the entire rear lamp must be exchanged.



- ① Rear light (LED)
- ② Fog tail light (light bulb)
- ③ Dynamic indicator (LED)
- ④ Back-up light (light bulb)
- ⑤ Blinker (light bulb)
- ⑥ Brake light (light bulb)

Multifunctional light
Optima Ontour Edition/
De Luxe

Releasing the rear lamp from the sealing



Reverse side of rear light

- Release the rear lamp by carefully applying a plastic wedge beneath the outer edge of the lamp.
- Before lifting the lamp out of the sealing, use one hand to hold the inner edge of the lamp in place. When releasing the lamp, ensure that it does not shift or is wedged towards the centre of the vehicle.

Release the lamp slowly and evenly from the sealing.



Marking on the lamp

- The sockets of the light bulbs are marked; unscrew them as described. Replace the defect lamp and then screw the socket back into the rear lamp retainer.



Never mix up the predefined positions of the lamps on the rear lamp and always ensure that they are screwed tightly into place.

Inserting the rear lamp in the sealing

- Place the rear lamp back in the sealing by carefully pushing the rear light into the inner corner and pressing it lightly into place. Then press the outer edge into the sealing, whereby the inner corner of the lamp must not be shifted.
- Check that the lamp is fully locked into place and fits smoothly.

Optima Premium

The following is a description of how to change the bulbs in the direction indicator (blinker) and rear lights.

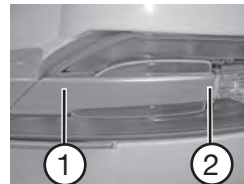


The rear lights in the Premium rear end (optional extra) are fitted with LED lights, whereby each individual light has a standardised alignment. Individual LED lamps may therefore for approving technical reasons not be replaced with a defect, the complete taillight must be replaced.



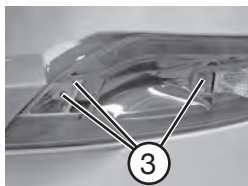
Rear light

Rear light with LED

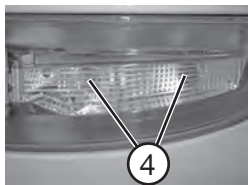


Cover

- To change the bulbs: start by carefully removing the cover ① at the indicated place ② by clipping it out of the retainer.



Unscrewing the screws



Light bulbs

- Then unscrew the 3 screws ③ in order to remove the rear light and expose the bulbs.
- Carry out this procedure in reverse order to install a new bulb and replace the rear light.

12.4 Airing

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

Condensation is caused by

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



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

To ensure the ideal air exchange, open all of the cupboard and wall cabinet doors when airing and reheating the van.

12.5 Care

The following applies for their care:

- Clean plastic parts (e.g. fenders, skirts) with water of up to 60° C and mild household cleansers.
- Clean greasy or oily surfaces with spirits.



Wash the vehicle only in places provided for this purpose.

Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the 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 vehicle should only be washed when it is dirty.

The following applies when cleaning the exterior:

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



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

Washing with a high pressure cleaner



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

Before washing the motor home with a high pressure cleaner, study its operating manual carefully. During washing maintain a minimum distance of at least 700 mm between the motor home and the high pressure cleaner. Please note that the water jet is under pressure when it comes out of the cleaning nozzle. Incorrect handling of the high pressure cleaner can result in damage to the motor home. The water temperature should not exceed 60°C. Keep the water jet moving while washing. The spray from the high-pressure cleaner must never be pointed directly at the cracks of the doors or windows, acrylic windows, ventilation grills in the refrigerator, service flaps, waste gas flues or skylights. This may damage the vehicle or water could get inside the vehicle.

The following applies when waxing the surfaces

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

The following applies when polishing the surfaces

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



Use polish only in special cases and as seldom as possible, because polish removes the top layer of varnish. Polishing too often will result in wear and tear.

The following applies for tar and resin stains

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



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

The following applies for damages

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

Skylights, windows, mirrors and doors

Window panes require particularly careful treatment.

The following applies for their care

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



Wash panes and mirrors with pure water only. Never use aggressive cleaning agents that include softeners or solvents!

Never 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.

You will find talcum powder in auto accessory shops.

Roof



To prevent the varnish on the roof of the mobile home 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.

The following applies for cushions, upholstery and curtains

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

Cleaning instructions for materials that containTeflon



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

We recommend the following methods for cleaning

Method A:

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

This method is particularly suitable for removing:

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

Method B:

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

This method is particularly suitable for removing:

- wax, candles
- pencil

Chocolate or coffee should only be washed out with lukewarm water.

The following applies for carpeted floors*:

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

The following applies for the PVC flooring:



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

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

The following applies for furniture surfaces

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



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

The following applies for the toilet

- Clean with a neutral liquid cleanser and a cloth that does not scratch.
- Do not use a vinegar concentrate to clean the toilet and the water system or to decalcify the water system. Vinegar concentrate can damage gaskets or parts of the system.
- The rubber seals of the toilet should be cleaned regularly with plain water and a lubricant for seals (not Vaseline or any other vegetable fats) should be applied. Applying this regularly to the washer of the valve and other seals in the toilet will ensure that they stay flexible and function longer.



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

The following applies for the sink and the cooker

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

The following applies for the fresh water tank



Fresh water tank

- Rinse it regularly with clean, clear water.
- If necessary, clean the sealing surfaces in the tank and grease them with Vaseline.

Cleaning the fresh water tank

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

The following applies for built-in equipment

Truma Combi heating system:

- The boiler must be descaled regularly (at least twice a year). We recommend using suitable commercial agents for cleaning, disinfecting and taking care of the boiler. Products that contain chlorine are unsuitable.
- The chemical method used to control microorganisms in the device can also be supplemented by regularly heating the water in the boiler to 70° C.

- The safety / outlet valve (FrostControl) must be operated regularly (at least twice a year) to remove lime deposits and to ensure that it is not blocked.
- The space behind the refrigerator should be hoovered and cleaned regularly. The ventilation grille should also be kept clean. The door seal should be rubbed once a year with talcum powder to keep it supple and the expandable fold should be checked for tears.
- The glycol mixture in the hot-water heating * system should be replaced every two years, because certain properties such as protection against corrosion deteriorate.
- The filter in the fume hood* must be cleaned occasionally, because cooking fat collects there. We recommend that you use warm water with a bit of dishwashing liquid to clean it.



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!

Accessories

- If necessary, lubricate leveling supports*.

12.6 Winter Lay Up for the Motor home

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

The following general rules apply

- Only leave your mobile home in a closed space if it is dry and well-aired. Otherwise, it is better to leave your motor home in the open.
- To protect the tyres, jack up the mobile home or move it slightly to a new position every two months.
- Close all gas bottles and emergency shutoff valves.
- Disconnect (or, ideally, remove) the battery and store it safe from frost. Check it about once a month to see if it is still charged; if not, charge it.
- Check the antifreeze in the cooling system and, if necessary, top it up.
- Leave space between tarpaulins and the camper so as not to hamper ventilation.

The following applies for the external structure

- Wash the mobile home thoroughly (**see 12.5**).
- Check the vehicle for damages to the varnish 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 varnish.
- Use a protective agent to protect the metal parts of the chassis against rust.
- Check the undercarriage for damage and, if necessary, repair it. In case of severe damages, contact your dealer.
- Ensure that no water can get into the venting on the floor, heating system and refrigerator venting (mount winter covers^{*}).

The following applies for tanks and containers:

- Clean, disinfect, descale and completely empty all water pipes and faucets. Leave faucets open.
- Clean and empty the fresh water tank (see Chapter 8 Water).
- Clean and empty the waste water tank.
- Clean and empty the toilet flushing tank and the excrement tank. Clean the toilet valve, apply a lubricant for seals and leave it open.
- Completely empty the therme/boiler.
- If your motor home is equipped with a hot-water heater: rinse the water heater thoroughly and empty all of the water.

The following applies for the interior fittings

- Clean the interior of your motor home. Hoover carpets, cushions and mattresses. If possible, store them outside the mobile home. Otherwise, place them in such a way inside the vehicle that they do not come into contact with condensation.
- Use soapy water to clean linoleum and smooth surfaces.
- Leave the refrigerator door open or in the ventilation position (**see Chap. 10.3 Refrigerator**).
- After cleaning them, leave stowage spaces, cupboards, drawers and furniture flaps open to facilitate air circulation.
- Leave vents for forced ventilation open. If the mobile home is kept in a closed space, you can leave the skylight open.
- Air the mobile home thoroughly every four to six weeks when the weather is dry.
- Set up a dehumidifier (such as salt) inside the motor home and dry the granulate or change it regularly.
- Open the battery's circuit breaker.
- If necessary, heat the camper to prevent the build-up of mould from condensation.
- Switch off the 12 V main switch.

12.7 Winter Operation

Preparations

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

The following applies for your preparations:

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



Please also refer to the information given by the manufacturers of built-in devices regarding winter.

The following applies for ventilation

During operation in winter, condensation is caused when using the motor home in low temperatures. Sufficient ventilation is extremely important to ensure that the quality of the air

inside the motor home is good and to avoid damages to the vehicle caused by condensation.

- Do not shut vents for forced ventilation.
- Set the heating to maximum power when heating up the motor home. Open stowage spaces, cupboards, drawers, furniture flaps, curtains, shades and plissés. This enables you to achieve optimum ventilation and de-aerating.
- Only heat the motor home when the recirculation air system is switched on.
- Every morning, air all of the cushions, mattresses and stowage spaces and dry any damp spots.
- Air thoroughly with fully opened doors and windows several times a day.
- If the outside temperature is under 8° C, winter covers* should be mounted over the ventilation grilles of the refrigerator.



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

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

The following applies for heating

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

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



Continue to heat the vehicle while you are sleeping!

- The motor home uses considerably more gas in winter than in summer. Two 11 kg bottles of gas will be used up in just under one week.
- Therefore, should you stay longer in one place, it is worthwhile to set up an outer tent. It will help to acclimatise the motor home and keep the dirt out.

The following applies for tanks and containers

- If the interior is sufficiently heated, the fresh water tank, water pipes and therme/boiler should not freeze. Fill all of the water containers only after the interior has been thoroughly heated.
- When the heating is on, the waste water tank is heated. In severe frost, also add an anti-freezing compound or table salt to the waste water. If the vehicle is not being used, the waste water tank must be emptied completely.
- The toilet can be used normally, even in cold weather, as long as the interior of the motor home is heated. The excrement tank should be emptied if there is danger of frost.

At the end of the winter season

The following applies for the care of the vehicle

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

Saving energy in winter

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

The following applies for saving energy

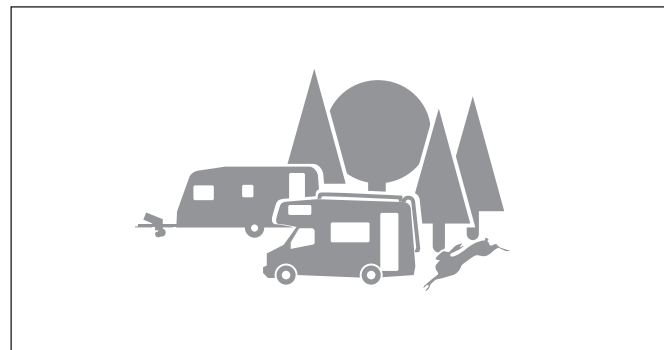
- Meter the exact use of ventilation in the vehicle and the heating valve.
- Install winter mats on the inner sides of the driver's cabin and the windscreen (e.g. thermal curtain*, **see 6.10**).
- Attach the insulating mat between the driver's cab and the interior of the motor home (not included in scope of delivery).
- Open the outside door as seldom and briefly as possible.
- If you are camping in winter, attach a small outer tent. This will offer protection against the cold.

Chapter 13: Sanitation and Environmental Protection

13.1 The environment and traveling

Environmentally fair use

Naturally, motor home, caravan and van owners and users are especially responsible for the environment. Always use your vehicle in an environmentally friendly way.



The following applies for environmentally fair use:

- If you plan on spending a longer period of time in cities and communities, find out in advance about special campsites for motor homes and use them.
- Do not spoil the peace and cleanliness of nature.
- Dispose of waste water and rubbish in the proper way.
- Act in an exemplary manner so that motor home, caravan and van users are not generally regarded as environmental polluters.



The following applies for waste water:

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



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



The following applies for wastes:

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



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

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

Sanitation

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



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



The following applies for waste:

- Separate your waste and put appropriate materials in the recycling bins.
- Empty waste bins as often as possible in the appropriate bins or containers. This prevents unpleasant odours and the problem of collecting rubbish on board.

The following applies for picnic spots:

- Always leave picnic spots clean and tidy, even if you dispose of someone else's waste.
- Never dispose of your household trash in the containers provided in rest areas.

- Do not let the vehicle's engine run unnecessarily while the vehicle is standing still. When the transmission is in neutral, a cold engine generates more harmful emissions. The quickest way for the engine to reach its 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!

13.2 Returning the vehicle

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

This means that your HOBBY motor home must be taken back free of charge by a member of the nationwide Fiat or Citroen dealers' network and disposed of professionally.

Chapter 14: Technical Data

14.1 Chassis Data

Hobby Modell	Model	Type	Base vehicle	Motorisation ⁵⁾ Model	exhaust gas emissions	Chassis	Frame extension (FE)			Belt system Aguti
							Type	Art.-No.	Kind	
Optima De Luxe										
T65 GE	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2200000	lowered	G2000 ASBC (Art. 118798)
T65 FL	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2300000	lowered	G2000 ASBC (Art. 118798)
T65 HFL	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2300000	lowered	G2000 ASBC (Art. 118798)
T70 GQ	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2600000	lowered	Fold-away sofa bench (Art. 118804/5)
T70 HGQ	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2600000	lowered	Fold-away sofa bench (Art. 118804/5)
T70 GE	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2400000	lowered	G2000 ASBC (Art. 118798)
T75 HGE	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2500000	lowered	G2000 ASBC (Art. 118798)
T70 E	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT026Gi	39P0100000	straight	G2000 ASBC (Art. 118798)
T70 F	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT026Gi	39P0100000	straight	G2000 ASBC (Art. 118798)
T75 HF	Optima De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6	Serien-Tiefrahmen	MT026Gi	39P0200000	straight	G2000 ASBC (Art. 118798)

All measurements in [mm]

all weights in [kg]

- 1) The trailer load for a technically permitted gross vehicle weight of 3,650 kg and 3,850 kg is reduced to 1,900 kg; for a technically permitted gross vehicle weight of 4,250 kg to 1,800 kg; for a technically permitted gross vehicle weight of 4,400 kg to 1,750 kg
- 2) without wing mirror
- 3) tow coupling is a special accessory
- 4) rear edge of traction unit to rear edge of back wall
- 5) FIAT: 2.3 Multijet 115 CV: 85 kW (115 PS); 2.3 Multijet 130 CV: 96 kW (130 PS); 2.3 Multijet 150 CV: 110 kW (150 PS); 2.3 Multijet 180 CV: 130 kW (177 PS)
- 6) It is not possible to attach a tow-bar if the technically permissible maximum weight is 3500 kg.

Seats	t.p.o.w. [kg]	Permiss. front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Max. permissible drawbar load ³⁾	Maximum towing weight	Length of super- structure ⁴⁾	Total length	Height	Width ²⁾	Front tread width	Rear tread width	Wheel base	Front projec- tion	Rear projec- tion
Optima De Luxe																
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4606	7069	2775	2330	1810	1980	4035	948	2086
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4556	7019	2775	2330	1810	1980	4035	948	2036
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4556	7019	2845	2330	1810	1980	4035	948	2036
4	3500	1850	2000	--- ⁶⁾	--- ⁶⁾	--- ⁶⁾	--- ⁶⁾	4921	7383	2845	2330	1810	1980	4035	948	2400
4	3650	1850	2000	750	1900 ¹⁾	80	5550	4921	7383	2845	2330	1810	1980	4035	948	2400
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7415	2775	2330	1810	1980	4300	948	2167
4	3650	1850	2000	750	1900 ¹⁾	80	5550	5073	7535	2845	2330	1810	1980	4300	948	2287
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7415	2775	2330	1810	1980	4035	948	2432
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7415	2775	2330	1810	1980	4035	948	2432
4	3650	1850	2000	750	1900 ¹⁾	80	5550	5153	7616	2845	2330	1810	1980	4300	948	2368

Hobby Modell	Model	Type	Base vehicle	Motorisation ⁵⁾ Model	exhaust gas emissions	Chassis	Frame extension (FE)			Belt system Aguti
							Type	Art.-No.	Kind	
Optima Design Version Premium Heck										
T65 GE	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P1800000	lowered	G2000 ASBC (Art. 118798)
T65 FL	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2100000	lowered	G2000 ASBC (Art. 118798)
T65 HFL	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2100000	lowered	G2000 ASBC (Art. 118798)
T70 GE	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P1600000	lowered	G2000 ASBC (Art. 118798)
T75 HGE	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2000000	lowered	G2000 ASBC (Art. 118798)
T70 E	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT026Gi	39P0100000	straight	G2000 ASBC (Art. 118798)
T70 F	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT026Gi	39P0100000	straight	G2000 ASBC (Art. 118798)
T75 HF	Optima Premium	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT026Gi	39P0200000	straight	G2000 ASBC (Art. 118798)
A60 GF	Siesta De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P0600000	lowered	G2000 ASBC (Art. 118858)
A65 GM	Siesta De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P0700000	lowered	G2000 ASBC (Art. 118858)
A70 GM	Siesta De Luxe	F3	Ducato Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P0400000	lowered	G2000 ASBC (Art. 118858)
V65 GE	Optima Outour Edition	C3	Jumper Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2300000	lowered	G2000 ASBC (Art. 118798)
V65 GF	Optima Outour Edition	C3	Jumper Light	130 PS (96 kW)	Euro 6b	Serien-Tiefrahmen	MT030i	40P2300000	lowered	G2000 ASBC (Art. 118798)

All measurements in [mm]

all weights in [kg]

- 1) The trailer load for a technically permitted gross vehicle weight of 3,650 kg and 3,850 kg is reduced to 1,900 kg; for a technically permitted gross vehicle weight of 4,250 kg to 1,800 kg; for a technically permitted gross vehicle weight of 4,400 kg to 1,750 kg
- 2) without wing mirror
- 3) tow coupling is a special accessory
- 4) rear edge of traction unit to rear edge of back wall
- 5) FIAT: 2.3 Multijet 115 CV: 85 kW (115 PS); 2.3 Multijet 130 CV: 96 kW (130 PS); 2.3 Multijet 150 CV: 110 kW (150 PS); 2.3 Multijet 180 CV: 130 kW (177 PS)
Citroën: BlueHDI 130 cv: 96 kW (130 PS); BlueHDI 160 cv: 118 kW (160 PS)
- 6) It is not possible to attach a tow-bar if the technically permissible maximum weight is 3500 kg.

Seats	t.p.o.w. [kg]	Permiss. front axle load	Permiss. rear axle load	Unbraked trailer load ³⁾	Braked trailer load ³⁾	Max. permissible drawbar load ³⁾	Maximum towing weight	Length of super- structure ⁴⁾	Total length	Height	Width ²⁾	Front tread width	Rear tread width	Wheel base	Front projec- tion	Rear projec- tion
Optima Design Version Premium Heck																
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4606	7098	2775	2330	1810	1980	4035	948	2115
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4556	7048	2775	2330	1810	1980	4035	948	2065
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4556	7048	2845	2330	1810	1980	4035	948	2065
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7444	2775	2330	1810	1980	4300	948	2196
4	3650	1850	2000	750	1900 ¹⁾	80	5550	5073	7564	2845	2330	1810	1980	4300	948	2316
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7444	2775	2330	1810	1980	4035	948	2461
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4953	7444	2775	2330	1810	1980	4035	948	2461
4	3650	1850	2000	750	1900 ¹⁾	80	5550	5153	7645	2845	2330	1810	1980	4300	948	2397
4	3500	1850	2000	750	2000 ¹⁾	80	5500	3800	6238	3070	2340	1810	1980	3800	948	1490
6	3650	1850	2000	750	1900 ¹⁾	80	5550	4052	6490	3070	2340	1810	1980	4035	948	1507
6	3650	1850	2000	750	1900 ¹⁾	80	5550	4552	6990	3070	2340	1810	1980	4035	948	2007
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4306	6779	2897	2160	1810	1790	3800	948	2031
4	3500	1850	2000	750	2000 ¹⁾	80	5500	4306	6779	2897	2160	1810	1790	3800	948	2031

14.2 Load increased

Hobby Model	Model	Type	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ¹⁾	Braked trailer load ¹⁾	Max. permissible drawbar load ¹⁾	Maximum towing weight	Height
Reduced load Optima / Siesta to 3500 kg												
T70 HGQ	Optima De Luxe	F3	Ducato Light	3	3500	1850	2000	750	2000	80	5500	2845
T75 HGE	Optima De Luxe, Premium	F3	Ducato Light	3	3500	1850	2000	750	2000	80	5500	2845
T75 HF	Optima De Luxe, Premium	F3	Ducato Light	3	3500	1850	2000	750	2000	80	5500	2845
A65 GM	Siesta De Luxe	F3	Ducato Light	6	3500	1850	2000	---	---	---	3500	3070
A70 GM	Siesta De Luxe	F3	Ducato Light	5	3500	1850	2000	---	---	---	3500	3070
Load increased for Optima / Siesta to 3650 kg												
V65 GE	Optima Ontour Edition	C3	Jumper Light	4	3650	1850	2000	750	1900	80	5550	2897
V65 GF	Optima Ontour Edition	C3	Jumper Light	4	3650	1850	2000	750	1900	80	5550	2897
T65 GE	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2775
T65 FL	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2775
T65 HFL	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2845
T70 GQ	Optima De Luxe	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2845
T70 GE	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2775
T70 E	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2775
T70 F	Optima De Luxe, Premium	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	2775
A60 GF	Siesta De Luxe	F3	Ducato Light	4	3650	1850	2000	750	1900	80	5550	3070

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

Optima T70 HGQ, T75 HGE, T75 HF:

reduced load to 3,500 kg only possible in connection with approval for 3 people in the basic version, without optional extras (only motorisation and transmission can be variable).

Siesta A65 GM:

reduced load to 3,500 kg in connection with approval for 6 people only possible with 130 PS engine, manual transmission and without further optional extras. By reducing the permitted seating capacity (to 5 or 4, respectively) the additional load can be increased and further optional extras selected.

Siesta A70 GM:

reduced load to 3,500 kg only possible in connection with reducing seating capacity to 5, 130 PS engine, manual transmission and without further optional extras. By further reducing the permitted seating capacity to 4, the additional load can be increased and further optional extras selected.

Load increased for Fiat Ducato/Jumper to 3650 kg without technical changes.

Hobby Model	Model	Type	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ¹⁾	Braked trailer load ¹⁾	Max. permissible drawbar load ¹⁾	Maximum towing weight	Height
Load increased Optima / Siesta to 3850 kg												
T65 GE	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2775
T65 FL	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2775
T65 HFL	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2845
T70 GQ	Optima De Luxe	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2845
T70 HGQ	Optima De Luxe	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2845
T70 GE	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2775
T75 HGE	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2845
T70 E	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2775
T70 F	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2775
T75 HF	Optima De Luxe, Premium	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	2845
A60 GF	Siesta De Luxe	F3	Ducato Light	4	3850	1850	2060	750	1900	80	5750	3070
A65 GM	Siesta De Luxe	F3	Ducato Light	6	3850	1850	2060	750	1900	80	5750	3070
A70 GM	Siesta De Luxe	F3	Ducato Light	6	3850	1850	2060	750	1900	80	5750	3070

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

Ducato load increased to 3850 kg by means of additional laminated gold spring on the rear axle (permissible only in connection with 15" metal wheel rims; no 16" rims possible)

¹⁾ tow coupling is a special accessory

Hobby Model	Model	Type	Base vehicle	Seats	t.p.o.w. [kg]	Permissible front axle load	Permiss. rear axle load	Unbraked trailer load ¹⁾	Braked trailer load ¹⁾	Max. permissible drawbar load ¹⁾	Maximum towing weight	Height
Load increased Optima / Siesta to 4250 kg or 4400 kg												
T65 GE	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2802
T65 FL	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2802
T65 HFL	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2872
T70 GQ	Optima De Luxe	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2872
T70 HGQ	Optima De Luxe	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2872
T70 GE	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2802
T75 HGE	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2872
T70 E	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2802
T70 F	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2802
T75 HF	Optima De Luxe, Premium	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	2872
A60 GF	Siesta De Luxe	F3	Ducato Maxi	4	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	3097
A65 GM	Siesta De Luxe	F3	Ducato Maxi	6	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	3097
A70 GM	Siesta De Luxe	F3	Ducato Maxi	6	4250/4400	2100	2400/2500	750	1800/1750	80	6050/6150	3097

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

Load increased for Fiat Ducato with low-frame chassis to 4250/4400 kg by means of maxi chassis 1st stage (only available ex works) (4250 kg only in connection with 96 kW (130 PS) motor, 4400 kg with 110 kW (150 PS) and 130 kW (177 PS) motor).

¹⁾ tow coupling is a special accessory

14.3 Vehicle and equipment weights

Model	Series	Weight of basic vehicle	Driver	Diesel [kg]	Unladen weight [kg]	Basic equipment	Mass when vehicle is ready to start	t.p.o.w. [kg]	Overload weight
FIAT Ducato X290									
T65 GE	Optima De Luxe	2820	75	69	2964	36	3000	3500	500
T65 FL	Optima De Luxe	2788	75	69	2932	36	2968	3500	532
T65 HFL	Optima De Luxe	2865	75	69	3009	36	3045	3500	455
T70 GQ	Optima De Luxe	2966	75	69	3110	36	3146	3500	354
T70 HGQ	Optima De Luxe	3005	75	69	3149	36	3185	3650	465
T70 GE	Optima De Luxe	2859	75	69	3003	36	3039	3500	461
T75 HGE	Optima De Luxe	2957	75	69	3101	36	3137	3650	513
T70 E	Optima De Luxe	2868	75	69	3012	36	3048	3500	452
T70 F	Optima De Luxe	2869	75	69	3013	36	3049	3500	451
T75 HF	Optima De Luxe	2985	75	69	3129	36	3165	3650	485
T65 GE	Optima Premium	2850	75	69	2994	36	3030	3500	470
T65 FL	Optima Premium	2819	75	69	2963	36	2999	3500	501
T65 HFL	Optima Premium	2892	75	69	3036	36	3072	3500	428

Model	Series	Weight of basic vehicle	Driver	Diesel [kg]	Unladen weight [kg]	Basic equipment	Mass when vehicle is ready to start	t.p.o.w. [kg]	Overload weight
FIAT Ducato X290									
T70 GE	Optima Premium	2890	75	69	3034	36	3070	3500	430
T75 HGE	Optima Premium	2987	75	69	3131	36	3167	3650	483
T70 E	Optima Premium	2898	75	69	3042	36	3078	3500	422
T70 F	Optima Premium	2891	75	69	3035	36	3071	3500	429
T75 HF	Optima Premium	3014	75	69	3158	36	3194	3650	456
A60 GF	Siesta De Luxe	2738	75	69	2882	36	2918	3500	582
A65 GM	Siesta De Luxe	2799	75	69	2943	36	2979	3650	671
A70 GM	Siesta De Luxe	2859	75	69	3003	36	3039	3650	611
V65 GE	Optima Ontour Edition	2702	75	69	2846	36	2882	3500	618
V65 GF	Optima Ontour Edition	2697	75	69	2841	36	2877	3500	623

14.4 Tyres and rims for motor homes

Lightchassis			Series			Optional extra ¹⁾				
Hobby Model	Series	t.p.o.w. [kg]	Perm. axle load front	Perm. axle load rear	Tyre size	Metal wheel rim	Alloy wheel rim	Tyre size	Metal wheel rim, optionally alloy wheel rim	Wheel attach- ment*
T65 GE	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T65 FL	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T65 HFL	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T 70 GQ	Optima De Luxe	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T70 HGQ	Optima De Luxe	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T70 GE	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T75 HGE	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T70 E	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T70 F	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
T75 HF	Optima De Luxe / Premium	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68	5 / 71 / 118
A60 GF	Siesta De Luxe	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68 ²⁾	5 / 71 / 118
A65 GM	Siesta De Luxe	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68 ²⁾	5 / 71 / 118
A70 GM	Siesta De Luxe	3500 / 3650 / 3850	1850	2000 / 2000 / 2060	215/70 R 15 CP	6 J x 15, ET 68	---	225/75 R 16 CP	6 J x 16, ET 68 ²⁾	5 / 71 / 118
V65 GE	Optima Ontour Edition	3500 / 3650	1850	2000	225/75 R 16 CP	---	6 J x 16, ET 68 ²⁾	---	---	5 / 71 / 118
V65 GF	Optima Ontour Edition	3500 / 3650	1850	2000	225/75 R 16 CP	---	6 J x 16, ET 68 ²⁾	---	---	5 / 71 / 118

¹⁾ 16" wheels not in connection with load increased to 3850 kg

²⁾ Only available as 16"-LM

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

Tyres and rims for loaded motor homes

Maxi chassis (increased load)

Hobby Model	Series	t.p.o.w. [kg]	Perm. axle load front	Perm. axle load rear	Tyre size	Metal wheel rim, optionally alloy wheel rim	Wheel attachment*
FIAT Ducato X290							
T65 GE	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T65 FL	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T65 HFL	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T 70 GQ	Optima De Luxe	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T70 HGQ	Optima De Luxe	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T70 GE	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T75 HGE	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T70 E	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T70 F	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
T75 HF	Optima De Luxe / Premium	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
A60 GF	Siesta De Luxe	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
A65 GM	Siesta De Luxe	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130
A70 GM	Siesta De Luxe	4250 / 4400	2100	2400 / 2500	225/75 R 16 CP	6 J x 16, ET 68	5 / 78 / 130

14.5 Tyre pressure values

Motor homes		
Tyres	Tyre pressure (bar)	
Camping tyres (CP)		
215/70 R 15 CP	front: 5,0	rear: 5,5
225/75 R 16 CP	front: 5,5	rear: 5,5
Standard and winter tyres (C)		
215/70 R 15 C	front: 4,0	rear: 4,5
225/70 R 15 C	front: 4,3	rear: 4,75
225/75 R 16 C	front: 5,2	rear: 5,2

Index

A

Access ladder
 garage bed/alcoves 62
 Accessories
 upkeep 220
 Accessory weights 208
 Additional loads 21
 Airing 214
 Alcove bed, mechanical 62
 Ancillary battery 139
 changing the battery 139
 place of installation 139
 Auxiliary heating 194
 Awning 48

B

Basic equipment 21
 Battery circuit breaker 141
 Bed conversion 59
 Bicycle carrier 45
 Brakes 17

C

Changeover valve 169
 Changing the tyre 30
 Charger
 place of installation 87
 Charging process
 when engine is running 140
 Chassis 18
 Checking the gas system 160
 Choosing a parking space 18
 Clothesline 68

Condensation 216
 Converting the transverse seat
 58
 Cover flaps 40
 Cushion arrangements 64

D

Darkening system
 driver's cab 75
 Doors and flaps
 interior 50
 Doors
 opening and closing 34
 Driving 16
 in curves 16
 in reverse 17
 sparing the tyres 24
 Driving economically 17
 Driving in curves 17
 Driving in reverse 17

E

E-Bike carrier 47
 Electric power supply 134
 Electrical devices, installation
 safety tips 86
 Electrical system
 fuse protection 144
 Elevating table 56
 Emergency equipment 10
 first-aid kit 10
 vehicle tool kit 11
 warning triangle 10
 Entrance door 35
 Entrance step 43

Environment 226
 disposal 228
 excrements 227
 picnic spots 228
 rubbish 228
 waste water 227
 Environmental protection 226
 Exhaust fumes 160
 External cleaning 217
 polishing 218
 waxing 218
 External socket 149

F

Face-to-face seating arrangement 81
 Fire protection 9
 First aid kit 10
 Fittings 24
 Flaps
 opening and closing 50
 Flush toilet 158
 Freezer compartment 199
 Fresh water tank 153
 to empty 155
 Frost Control 187
 Fume hood 202
 Furniture doors 48
 Furniture surfaces
 upkeep 218
 Fuse protection for
 electrical system 136
 Fuses, assignment of 144

G

Gas 162
 Gas bottle container 165
 Gas bottle,
 to change 165
 Gas cooker 200
 to operate 201
 Gas socket, external 173
 Gas supply 164
 Gas system
 exhaust fumes 162
 fixtures and changes 162
 inspection 162
 regulator knobs and valves 163
 shutoff valves and valves 167
 General inspection 12
 Ground fault circuit interrupter
 (GFCI) 137

H

Hanging table 54
 Heating 168
 Hinged windows 69
 HobbyConnect 116
 Hot-water heater 188
 Hot-water supply 154

I

Insect screen, pleated 79

K

Keys to the vehicle 30

L

Levelling supports 43

Loading 19
L-shaped seating
arrangement 81

M

Mains connection 135
Maintenance intervals 212
Mass when ready to
drive 21

N

Navigation 150

O

Operating the cooker 199
Outside shower
water supply 158

P

Petrol filler neck 41
Power saving 217
Preparing the vehicle 14
Push lock 49

R

Rear external storage locker
20
Rear view camera 149
Redirecting electrical devices
19
Refrigerator 196
230V operation 197
12V operation 197
air supply 32
door lock 196

operating on gas 197
types of operation 197
Refuelling 17
Registration 12
Rescue sheets 9
Resin stains 218
Rims 29
Roof air conditioning 205
Roof bonnet 77
Roof load 45
Roof window 74

S

Safety belts
in the superstructure 82
SAT system 206
Seating
overview 83
Seats
in the superstructure 80
Securing the vehicle 18
Shunting 17
Sunshades, pleated 72

T

Tables 53
Tar stains 218
Technically permissible
maximum weight 21
TFT control panel 90
Toilet flap 37
Toilet
emptying the cassette 160
to use 158
Toilet

upkeep 218
TV mount 54
TV unit 147
Tyre pressure 27
Tyre pressure values 241
Tyre profile depth 28
Tyres 26

U

Upkeep 217
accessories 222
chair and cushion covers,
curtains 219
fitted carpet 220
furniture surfaces 221
PVC flooring 220
toilet 221
windows and doors 219
USB twin charger socket 147

V

Valve for waste water tank 156
Valves 161
Vehicle Identification Number
18
Ventilation grills 32

W

Warning triangle 10
Waste water tank 156
to empty 156
Water filler necks 40
Windows 69
Winter lay-up 222
base vehicle 222

containers 223
interior fittings 223
Winter operation 224
airing 224
Winter tyres 26
Worktop extension 55

Hobby-Wohnwagenwerk

Ing. Harald Striewski GmbH

Harald-Striewski-Straße 15

D-24787 Fockbek/Rendsburg

www.hobby-caravan.de