

Dexter 570 4x4

Operating Manual



Contents

Introduction	Page 5
Rights and duties	Page 9
Water system	Page 13
Gas system	Page 21
Electrical system	Page 25
Heating	Page 33
Toilet	Page 37
Electrical appliances	Page 43
Openings	Page 49
Shut-down for winter	Page 55
Care	Page 61
Miscellaneous and accessories	Page 65
Troubleshooting	Page 69
Appendix: Wiring diagram	

Provisional illustrations



Introduction

Dear customer,

We would like to thank you for your trust in the **Karmann-Mobil** brand, which you have demonstrated by buying your leisure vehicle.

Many years of experience and know-how form the basis of this unique concept of a vehicle, which is positioned between an everyday vehicle and a motorhome.

Your smart and compact vehicle from **Karmann-Mobil** offers an especially ingenious interior and will serve you very well on short and long journeys alike.

In this operating manual you will find tips and information from **Karmann-Mobil** concerning the everyday care and maintenance of your vehicle so that you can enjoy all its advantages.

***Karmann-Mobil** wishes you safe and pleasant travels at all times.*

1 – Instructions on use

These instructions will help you to become more familiar with your vehicle. Please read them thoroughly before using the vehicle for the first time.

These instructions give you answers to almost all questions concerning the operation of a system or an appliance. It is therefore important to always keep these instructions on hand in your vehicle.

The pictograms used in these instructions will help you to easily identify the location of each individual element. Some pictograms indicate the importance of the corresponding information:



“Attention” pictogram: Highlights an important point that must be observed.



“Injury” pictogram: Warns of a risk of injury resulting from ignoring the corresponding information.



“Customer service” pictogram: If you cannot find a solution for the problem in these instructions or in the instructions of the corresponding appliance manufacturer, please consult the customer service of your authorised dealer.



Icon “dirt/contamination”: Warns of a risk of pollution to the environment resulting from ignoring the corresponding information.

With the delivery of your vehicle from **Karmann-Mobil** you also received a folder.

In this folder you will find instructions for each electric appliance from the respective manufacturer.

Before using the vehicle the first time, ensure to read these instructions. The information contained in these instructions take precedence over the information provided in this operating manual.



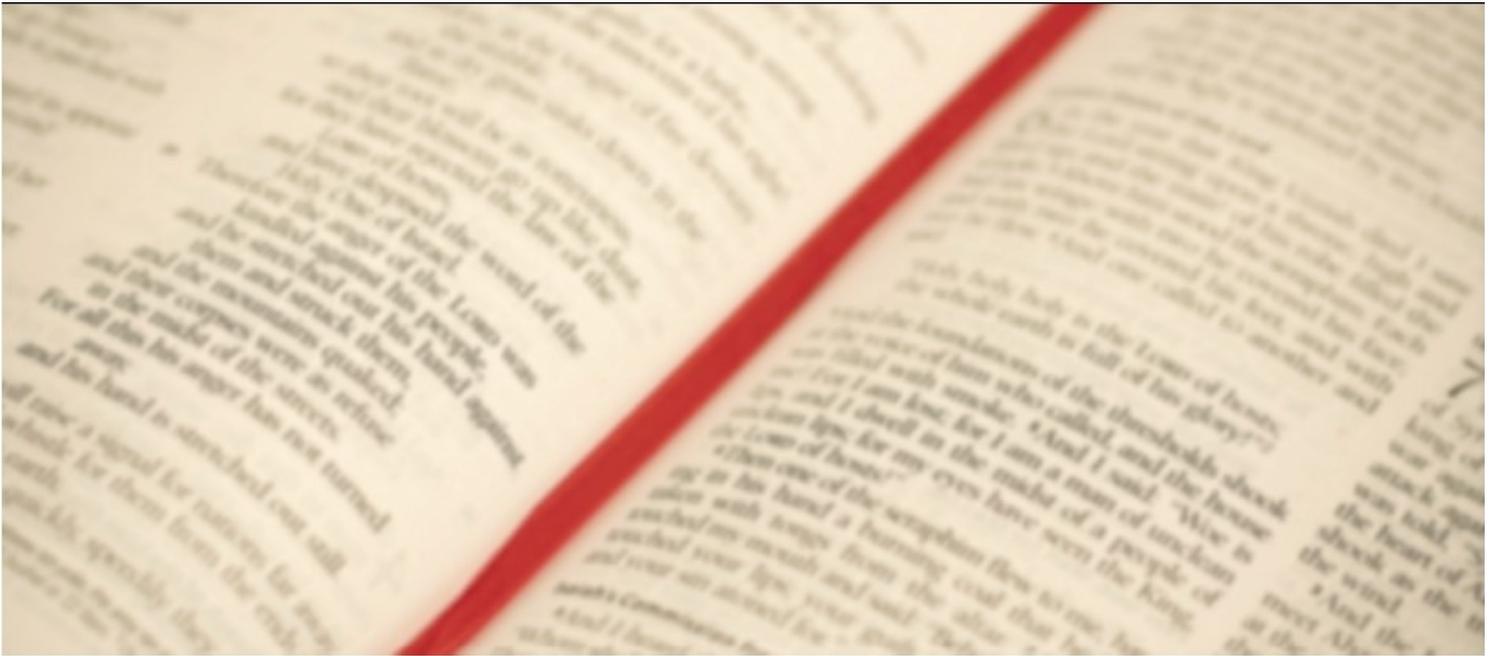
2 – Warranty leaflet

To activate the warranty, the warranty certificate must be registered by the delivering dealer on the Eura Mobil Portal.



A copy of the initial registration must be uploaded in the system in this context. The basic vehicle is hereby registered with the chassis manufacturer for warranty coverage.

In the course of the Data Protection Act, a data protection declaration must be filled out and signed by the customer.



Rights and duties

1 – Rights and duties of owners of motorhomes



Waste water can only be drained at dedicated locations like roadside service areas, waste disposal stations or public and private sanitary facilities.



Attention: Public storm sewers may not be used for drainage as they do not have facilities for waste water treatment.

All water drain valves must be kept closed while driving.



Household waste must be collected in bags and disposed of at the facilities provided for this purpose.

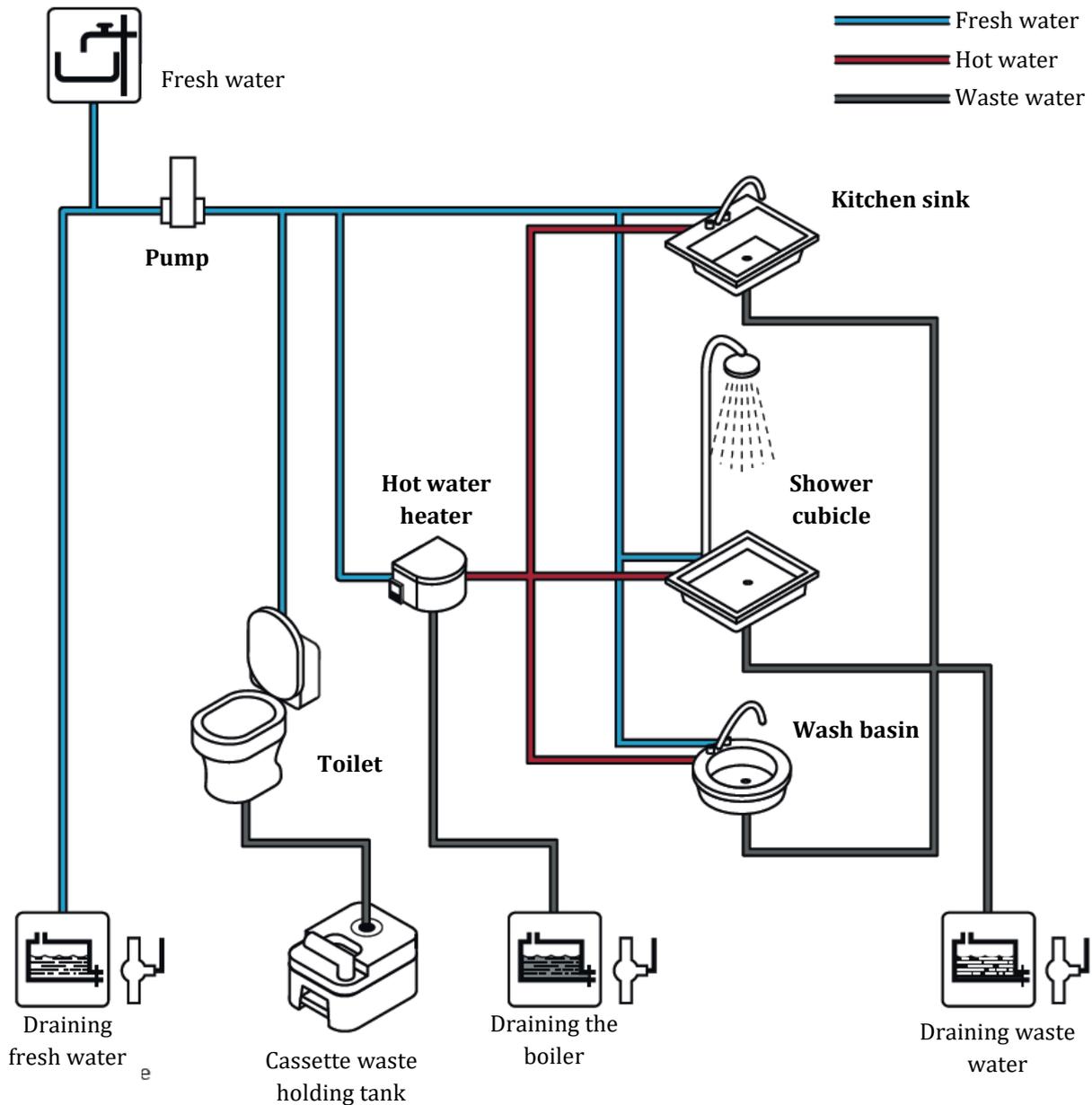
The application of all these principles strengthens mutual respect, respect for the environment and hospitality in the regions visited.

Charta des S.I.C.V.E.R.L (Syndicat des Véhicules de loisirs – Verband der Hersteller von Freizeitfahrzeugen – Association of manufacturers of leisure vehicles) and the C.L.C. (Comité de Liaison du Camping-car – Beratungsgremium Wohnmobile – Advisory Body Motorhomes).



Water system

1 – Water circuit



Waste water must only be drained at locations which are fully equipped for this purpose (campsites/caravan parks, waste disposal stations, etc.).

2 – Fresh water supply

Your mobile home is equipped with a fixed fresh water tank with a capacity of 80 l. It is located in the box on the rear right-hand side.



In winter, this tank remains free of ice as long as the motorhome is heated. It can be drained via a manual drain valve.

The water level sensor measures the amount of water remaining in the tank.

The control panel shows the filling level in percent.



The fresh water tank is filled by a hose without adapter piece via the plug on the front left hand side of the vehicle. The tank is full when water runs through the overflow and drips down to the ground.

To make sure that the tank is not filled completely, check the filling level on the control panel in test mode.



-  The fresh water tank must only be filled with potable water.
-  Before you open a tap and thus start the electric pump, you should check whether the tank holds any water. Running without water may damage the pump.
-  Regardless of the source, depending on the filling system and the residual water in the tank, it cannot be guaranteed that the water is potable.
-  The water in the tank loses its hygienic properties after a few days, even if additives are added. Drinking the water or using it for cooking is not recommended. The water should be changed frequently. This can be done at the lower right side. First, the tank must be cleaned with a disinfectant: the water in the fresh water tank is not to be considered potable.

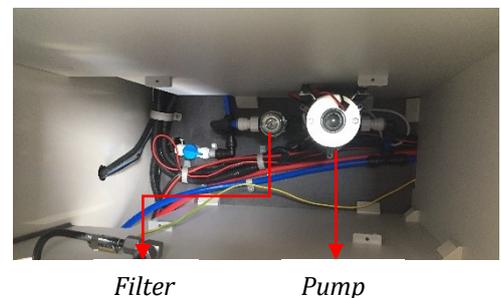
3 – Pump and filter

The electric power supply for the pump is switched on from the control panel (see diagram). Power is supplied to all water and sanitary connections of the vehicle. The power starts when a tap is opened.

It is located in the box on the rear right-hand side.

The pump filter should be cleaned regularly. Contamination may cause damage to the pump.

If the pump does not shut off automatically, make absolutely sure to switch it off on the panel and have the water system checked!



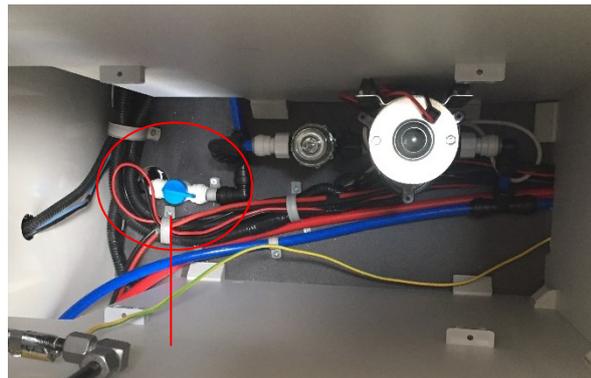
4 – Draining the fresh water

Turn off the power at the control panel.

Open the fresh water drain valve located in the box on the rear right-hand side.

Open all taps to ensure complete drainage.

To finish the draining process, start the pump and let it run for a short period; keep the taps open throughout this time.



Fresh water drain valve

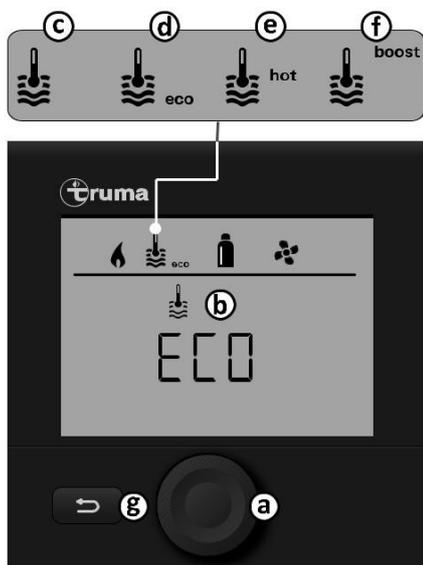
5 – Hot water



Your vehicle is equipped with a TRUMA D6 heater with integrated boiler, which is located in the rear left-hand box.

It is supplied directly from the diesel tank and delivers hot water to the various water service points (shower, wash basin, kitchen sink).

▪ Control panel



- Press the rotary/pressure switch **(a)** to activate the control panel.
 - Scroll through the menu and select the hot water symbol **(b)**.
 - Scroll through the available setting options and select the desired operating mode.
- (c) Boiler** – the hot water supply is operating
(d) Eco – the hot water temperature is 40 °C
(e) Hot – the hot water temperature is 60 °C
(f) Boost – not available with Combi Diesel
- Press the rotary/pressure switch **(a)** to confirm your selection.
 - Press the return button **(g)** to exit the menu.

▪ **Filling the boiler**

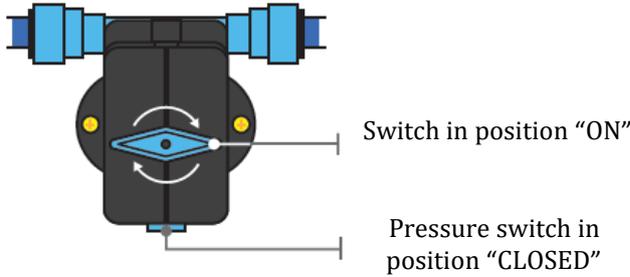
Before its first use, the entire water supply must be rinsed with clean water.



Check whether the rotary switch of the drain valve (*Frost Control*), which is located in the rear left-hand box, is in the **“Operation”** position, i.e. parallel to the water connection, and whether it is engaged. In order to close the drain valve, activate the pressure switch until it locks into place.



Frost Control



Turn on the pump at the control panel.
Open the hot water taps in the kitchen and bathroom. Leave the taps open until the air has escaped from the system and the water runs as a continuous stream from the taps.

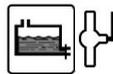


Control button to switch on the electric power supply for the pump



To reactivate the Frost Control function at temperatures below 7 °C and to fill the appliance completely, the heater must first be switched on to warm up the space in the heater box. When the temperature is above 7 °C, the drain valve (*Frost Control*) can be closed.

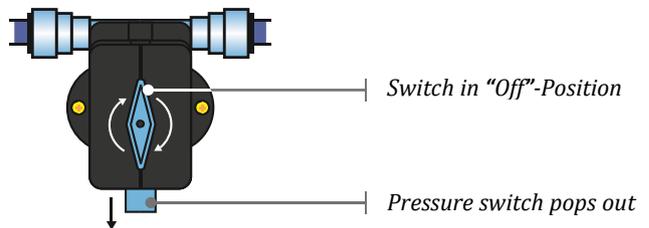
▪ **Draining the boiler**



If the boiler is not used for an extended period of time, it must be emptied completely in order to avoid frost damage.

Turn off the pump on the control panel and open all hot water taps.

Turn the rotary knob of the drain valve (*Frost Control*) by 90° until it clicks into place. The pressure switch is released from the engaged position and the drain valve opens.



The water from the boiler is now drained to the outside via the drain valve. Place a container under the outlet to ensure that the boiler has been completely emptied (about 10 litres).
If the temperatures drop below 3 °C, the *Frost Control* safety/drain valve opens automatically and empties the boiler.



Waste water can only be drained at dedicated locations like roadside service areas, waste disposal stations or public and private sanitary facilities.

6 – Kitchen sink and washbasin

The kitchen sink and wash basin are made of plastic and must be cleaned with suitable household products. Do not use abrasive cleaning agents.



7 – Shower cubicle

The shower cubicle is equipped with a mixer tap. The sink must be cleaned regularly with a suitable household product. Before starting your journey, do not forget to secure the shower head firmly in its holder.

While taking a shower, the duckboard must be placed on the floor of the shower cubicle and the shower curtain must be closed properly in order to prevent water from escaping.

A shower unit included in the scope of delivery of your vehicle can be attached to the connection at the side of the rear left-hand box and used as outside shower.



8 - Draining

All waste water (from wash basin, kitchen sink and shower) is collected in a solid tank, which is located under the vehicle.

A sensor checks whether the tank is full; this is displayed by this light on the control panel: **R1**

The tank should be drained as soon as possible when the control light lights up and 100 % is indicated on the control panel.

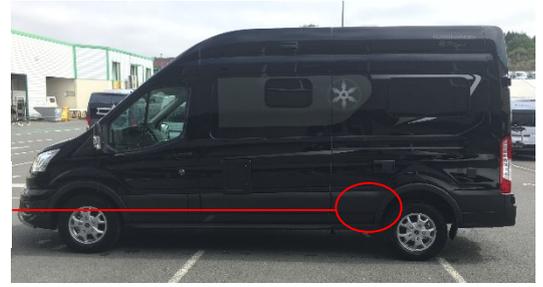


Control light for waste water tank

The tank is emptied only by means of a red manual drain valve located in the rear area under the vehicle.

Handle to drain the waste water tank

The waste water tank is equipped with a thermal sensor which switches on at an outside temperature of approx. 3° C and switches off again at a water temperature of approx. 9° C. Requirement: at least 10 litres. Water in tank and main panel and interior light must be switched on.



Waste water can only be drained at dedicated locations like roadside service areas, waste disposal stations or public and private sanitary facilities.

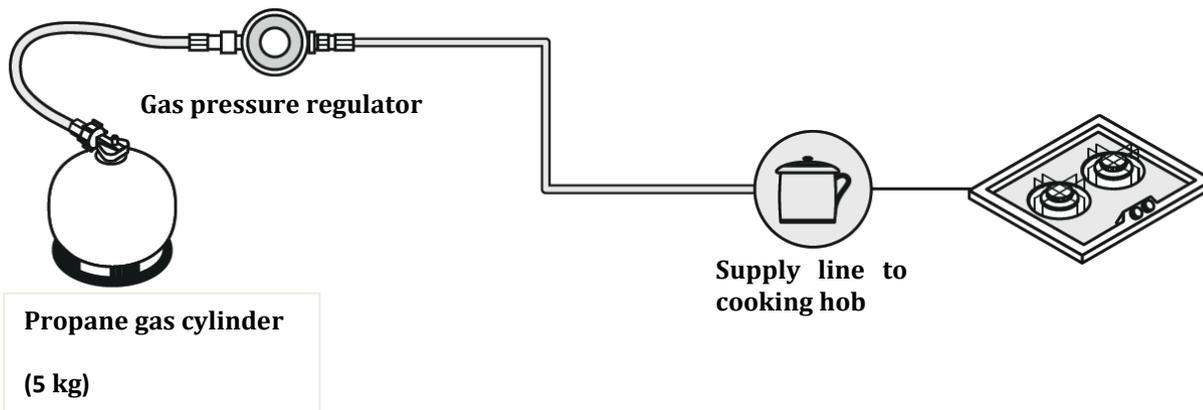


For safety reasons and to maintain the warranty, changes to the water system must only be made by authorised dealers with the written consent of Karmann-Mobil.



Gas system

1 – Gas circuit



2 – Commissioning

Your vehicle can accommodate 2 propane cylinders weighing 5 kg (7) each (not included in the delivery).

The cylinders can be found in the box on the right-hand side in the rear storage room.

To gain access to the bottle box, the door must be opened.



For putting the system into operation connect the main stopcock to the upper cylinder.



The cylinders must be secured inside the gas box using the straps provided for this purpose.

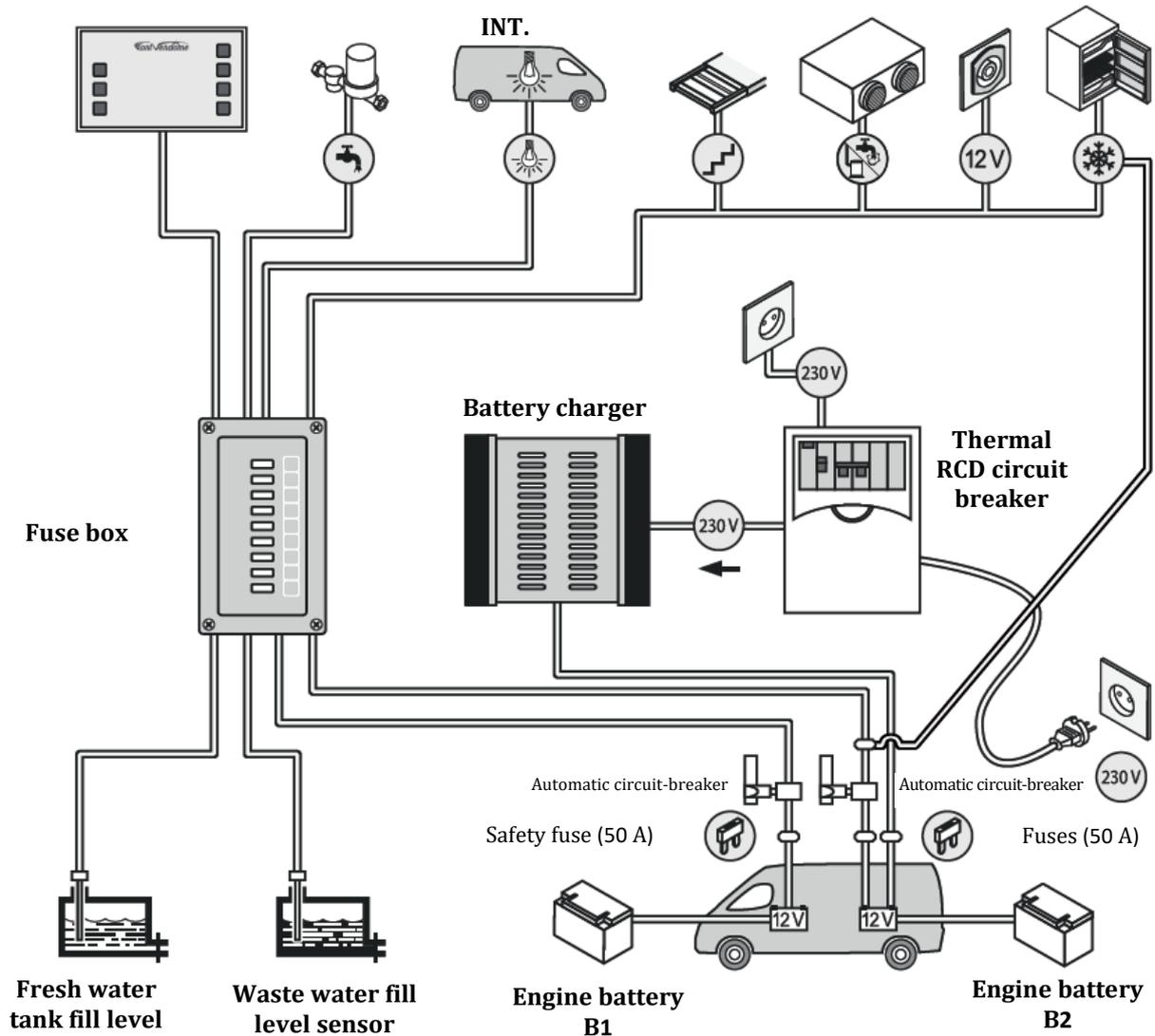
To replace an empty cylinder:

- Close the gas supply on the cylinder and disconnect the main shut-off valve.
- Replace the empty cylinder by a full one, reconnect the main stopcock.
- Open the gas supply on the cylinder.
- No other objects must be stored in the gas box



Electrical system

1 – Electric circuit



2 – Operation of the system

It is the function of the electrical system to make your vehicle as autonomous as possible.

The energy required for operating the lights and all appliances in your motorhome is either provided by a 12 V battery or via a cable (not included in scope of delivery) connected to the mains supply when the vehicle is parked.

The electrical system consists of two separate electric circuits: 12V and 230V.

3 – Electric power supply 230 V



For supplying your vehicle with 230 V, the vehicle must be connected via a standard CEE-coupling outside on the rear left-hand side of the vehicle.

It is recommended to use a three-core supply lead with sufficient cross-section ($3 \times 2.5 \text{ mm}^2$) and a length of max. 25 m.

This cable must be fitted with water-proof connecting couplings 230 V/16 A.

You must also make sure that the socket to which the vehicle is to be connected is compatible.

The 230 V circuit supplies the refrigerator, the internal sockets and the charger for the battery with power.

These appliances are protected by a 230 V (16 A) thermal RCD circuit breaker which is located in the rear left-hand recess together with the fuse box and the battery charger.



4 – Electric power supply 12V

The 12 V electric circuit consists of the following elements:

- **Engine battery**

It is located at the original location under the driver's seat and is directly charged by the generator of the engine.



It supplies all basic functions of your vehicle (headlights, indicator lights, windscreen wipers etc.), but also certain appliances in the living room (refrigerator during travel).

- **Living room battery**

The living room battery is stowed in the rear right-hand box. During travel it is directly charged by the engine's generator (the starter battery has priority), respectively by the battery charger if the vehicle is connected to an external socket.

It supplies all 12 V appliances in the living room (lighting, water pump, etc.)

- **Distribution module**

The distribution module is located in the electrical compartment. It contains all fuses and distributes the power supply to all premises in the vehicle.

Distribution module



- **Battery charger**

The battery charger is located in the electrical compartment and is used to charge the batteries. It runs permanently and converts the 230 V voltage to 12 V.

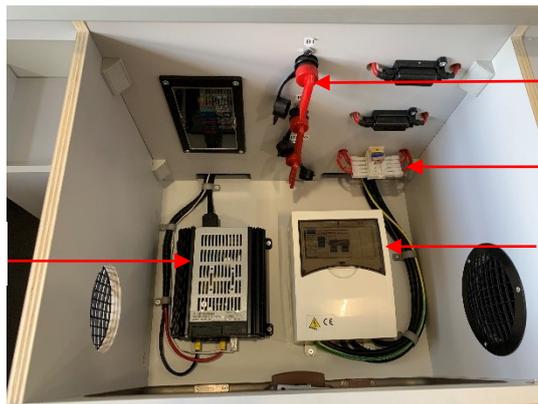
- **Fuse holder**

The fuse holder is located in front of the circuit breaker. It contains fuses for the heater (diesel or gas), the refrigerator and the control panel for heater / boiler.

- **Automatic circuit breakers**

The automatic circuit breakers are located next to the distribution module. The automatic circuit breaker B1 separates the living area cabin. The automatic circuit breaker B2 separates the supply of the living room.

Battery charger



Automatic circuit breakers

Fuse holder

Circuit breaker



Before the living room battery is disconnected from the electrical circuit, be sure to turn off the heater on the control panel.



Control panel of the heater

- **Control panel**

This is mounted to the storage cabinets above the kitchen unit. The control panel allows you to control various electric appliances in your vehicle and to check several parameters for the optimal use of the living room. This is a touch panel.



To switch on the panel, simply touch the screen for two seconds.

**On/Off button**

Switches the control panel on and off.

**Button for interior lighting**

This button is used to switch on the power supply for the interior lighting.

**Button for exterior lighting**

This button is used to switch on the power supply for the exterior lighting.

**Button for water pump**

Switches on the power supply for the water pump.

**Button for fresh water tank**

Shows the filling level in the fresh water tank in percent. The light flashes when the tank is empty. The filling level is displayed on the screen for approx. 30 seconds.

**Control light for waste water tank**

This light comes on when the waste water tank is full.

**Control light for battery charge via external cable / 230 V applied.**

Indicates that the living room batteries are being charged directly from the external connection of your vehicle by an external 230V circuit.

**Control light for battery charge B2 (living room)**

Indicates that the battery B2 (living room) is currently being charged by battery B1 (engine) after the engine has been started.

**Button for battery B2 (living room) charge status indicator**

Shows voltage and charge status of the living room battery. Press once to display the voltage, press again to view the charge status in percent. The filling level is displayed on the screen for approx. 30 seconds.

**Button for battery B1 (engine) charge status indicator**

Shows voltage and charge status of the engine battery. Press once to display the voltage, press again to view the charge status in percent. The filling level appears on the screen for approx. 30 seconds.



If the voltage of the living room battery drops below 10V, the control panel and all appliances currently in operation will shut down within one minute.

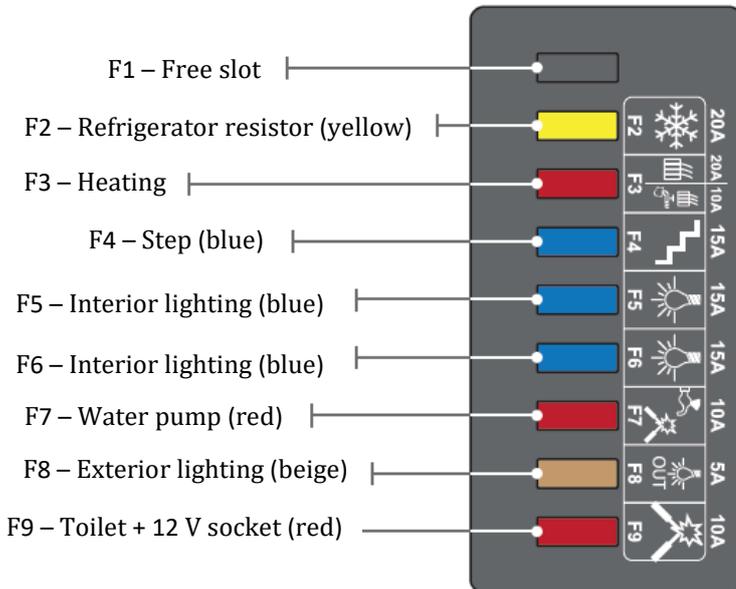


A battery is considered discharged when the charge status shown on the control panel is less than 1/3. Below this charge limit there is a risk of exhaustive/total discharge. The battery in this case is completely discharged and is thus unable to take up and maintain its full capacity. This results in a considerable decline in battery power and has a negative effect on the electric components, especially the distribution module.

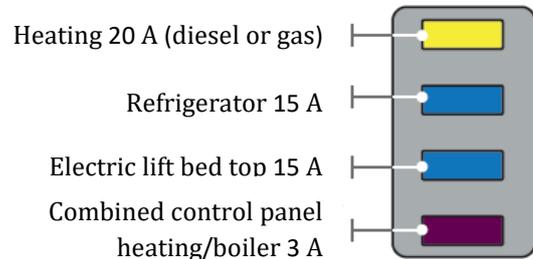
The Karmann-Mobil warranty does not apply in cases of exhaustive/total discharge.

5 – Fuses 12 V

Distribution module



Fuse holder



Before replacing a fuse make sure that all appliances have been switched off. The replacement fuse must be of the same amperage. However, before replacing a fuse determine the root cause first please.



Never replace a fuse by a metal object and never try to repair a fuse yourself.



Danger of injury or fire if these instructions are ignored.



If the problem can neither be solved by replacing the fuse nor by reactivating the circuit breaker, you should have the system checked by a certified specialist.

6 – Electrical consumers

- **LED exterior lighting 12 V**

The exterior lighting is located on the right-hand side of the vehicle, above the side door.



- LED interior lighting 12V



7 – Notes on safety

Connection to the mains supply must be made in compliance with applicable standards.

Do not smoke when working on the living room battery. Switch off all appliances and all lights.

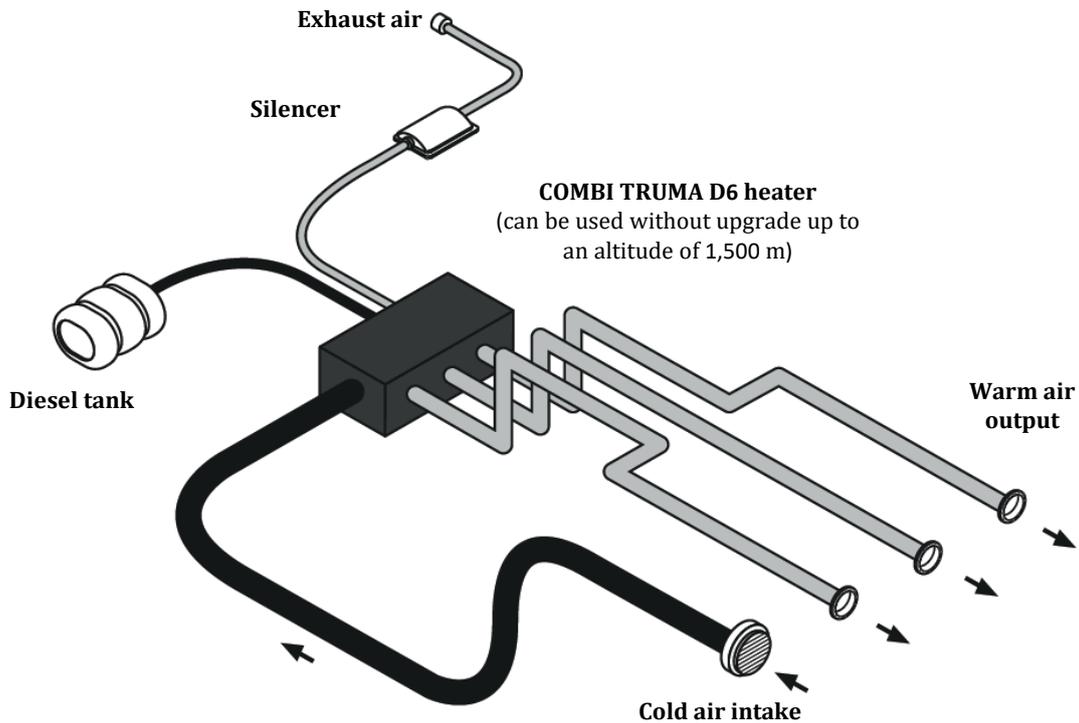


For safety reasons and to maintain the warranty, changes of the electrical system must only be made by authorised dealers with the written consent of Karmann-Mobil.



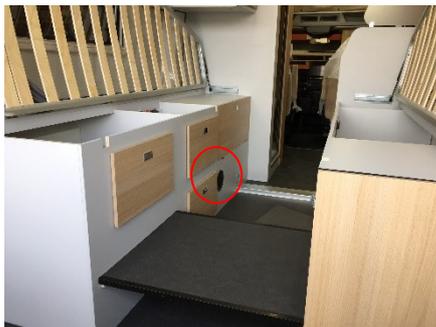
Heating

1 – Ventilation circuit



2 – Operation

The heater is installed in the rear left-hand box and is operated with diesel fuel. The heater takes the fuel directly from the fuel tank and warms the cold air taken in from the living room. Subsequently, the warm air is distributed through air vents to various locations in the living room.



Vent opening for cold air

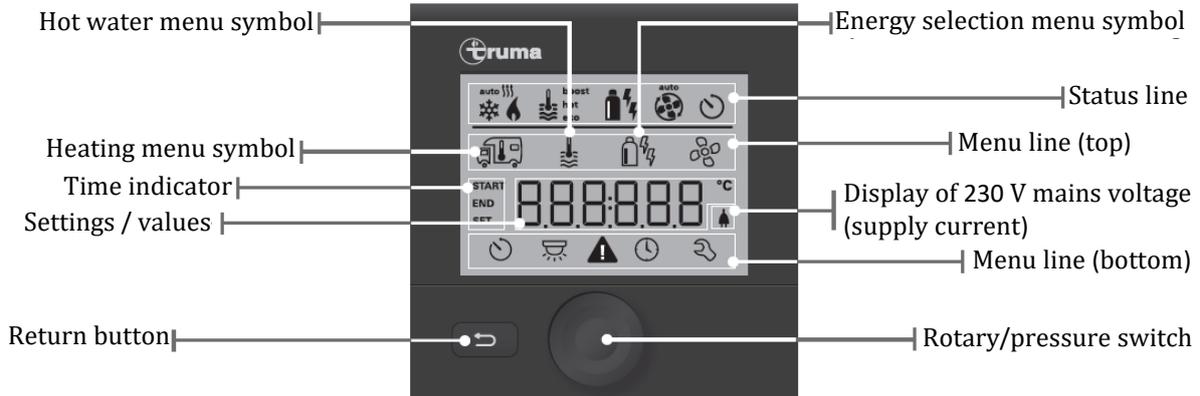


output for warm air

Ensure that the ventilation grilles remain unobstructed!
At least one opening without flap must be installed among all ventilation grilles of the vehicle.

The heating is controlled by the control panel, which is located above the kitchen block.

- **Control panel**



Different values and parameters can be selected, changed and stored with the rotary/pressure switch. The selected menu items flash.

- **Operating the heating system**

Turn the rotary/pressure switch to the right to scroll through the symbols of the upper menu until the heating symbol appears.

Press the switch to confirm the selection. Turn the switch again to the right to select the desired temperature.

- **Operating the heating with hot water supply**

Turn the rotary/pressure switch to the right to scroll through the symbols of the upper menu until the heating symbol appears.

Press the switch to confirm the selection, then select the hot water symbol and press the switch again to confirm the selection.

- **Faults**

In the event of a fault, the Truma CP+ controller immediately switches to the “Fault” menu and shows the error code of the fault. Refer to the manual of the Truma CP+ controller for information about troubleshooting and instructions for correction.

After the problem has been detected and corrected, reset the system by keeping the rotary/pressure switch pressed for at least four seconds to switch off the unit. Now turn on the unit again.

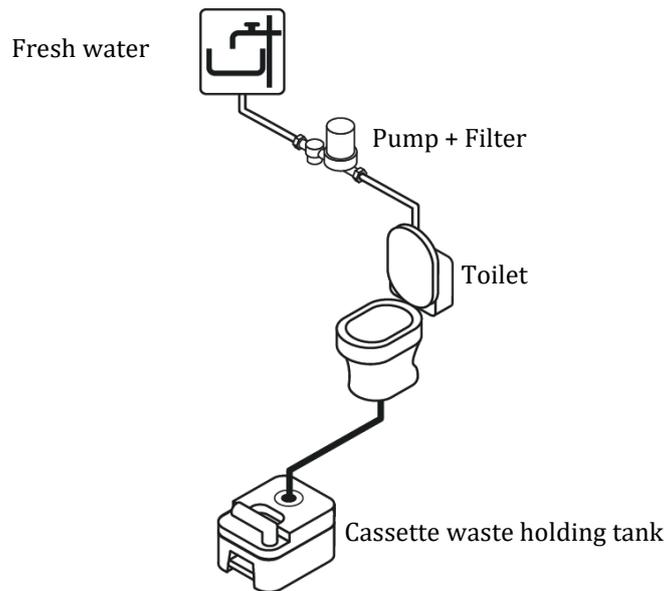


During periods of frost, it is important to empty the boiler thoroughly. Frost damage is not covered by the warranty.



Toilet

1 – Toilet installation

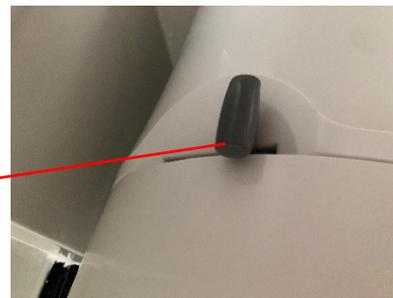


2 – Use

The toilet system of your vehicle consists of a toilet bowl with flushing and an emptying tank (cassette).

- **Toilet bowl**

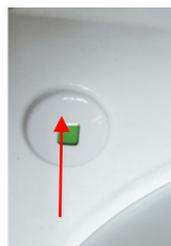
The toilet bowl is equipped with a folding seat and a lid. There is a latch underneath the seat that lets you open a slider in order to empty the toilet bowl.



Do not put the toilet cleaner directly into the toilet bowl.



Button for flushing the toilet



Fill level indicator of the toilet cassette.

The toilet bowl can be flushed after use by activating a flush button above the control panel behind the seat. Check the control light on the left of the toilet to verify the fill level of the cassette.

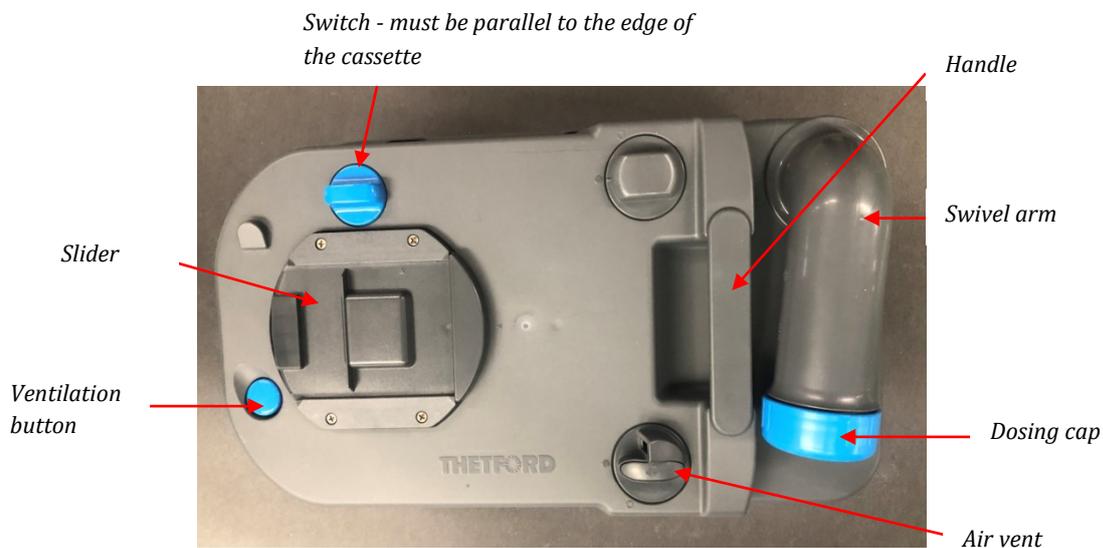
Swivel the toilet bowl into a comfortable position before use.
It is recommended to use the flush knob to allow water to flow into the toilet bowl.
The water stops flowing as soon as the flush button is released.

After use, open the slider by turning the handle anti-clockwise. Use the flush key for flushing the bowl. Do not forget to close the slider again to avoid the spread of unpleasant odours.

Be aware of the air pressure when opening the door to the toilet cassette. Be sure to close the toilet lid before opening the slider.

The flush button also works when the cassette is not in its enclosure. Ensure that the toilet bowl is empty before each journey and that the slider and the toilet lid are closed.

▪ **Toilet cassette installation**



The cassette is accessible from the left rear storage space of the vehicle.

- Before you remove the cassette, make sure that the slider of the toilet bowl is firmly closed, then open the door by pressing both buttons.

- Lift up the locking bar and pull out the cassette until it stops. Keep the cassette horizontally. Tilt the cassette slightly and lift it out.

- Place the cassette in a vertical position. Rotate the swivel arm upwards. Remove the dosing cap from the swivel arm. Pour the amount of WC fluid prescribed by Thetford into the tube of the swivel arm.
- Subsequently, add sufficient water so that the bottom of the cassette is adequately covered (approx. 2 litres).



Note: In very warm weather or prolonged storage, more WC fluid may have to be used. For best results, use only fluids intended for Thetford toilets. Do not leave any residual amounts in the tank when shutting down for winter.

- Slide the cassette into the corresponding enclosure on the left-hand side of the vehicle.
- Ensure that the cassette is locked in place before closing the door.



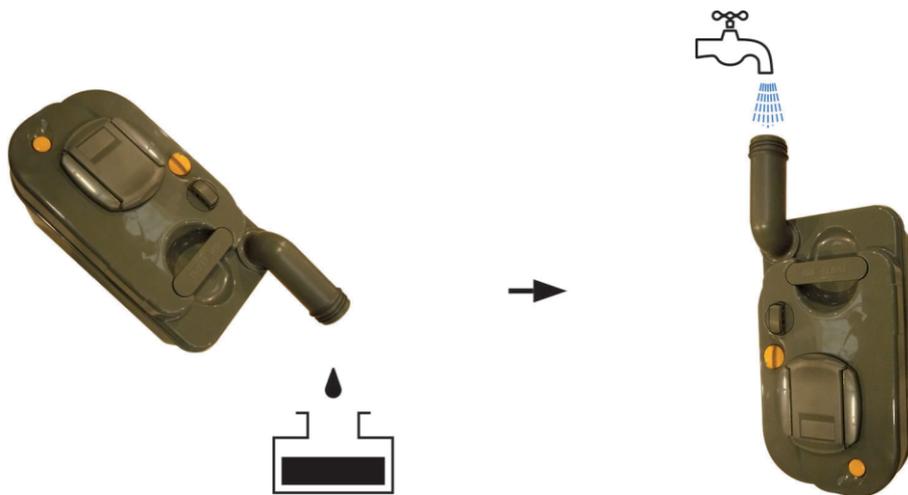
Careful when handling toilet cleaners!

- Wash hands after each use.
- In case of contact with eyes, rinse eyes with plenty of water.
- Keep out of reach of children.

▪ Toilet cassette emptying

When the cassette is three quarter full, the colour of the fill level indicator on the control panel changes to red. In this case, the cassette should be emptied as early as possible.

- Check and ensure that the slider is securely closed. Subsequently, take the cassette out of its enclosure.
- Place the cassette in a vertical position. Rotate the swivel arm upwards. Remove the dosing cap from the swivel arm.
- Pick up the cassette so that you can press the ventilation button with your thumb while emptying the cassette. This will avoid splashing of the content.
- Tilt the cassette over a suitable container. Rinse with clear water.



- After the cassette is emptied, reinsert the cassette into its enclosure.

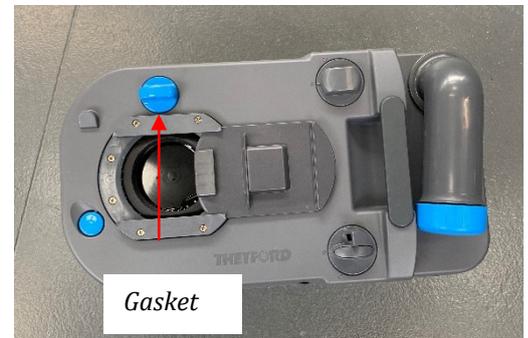
3 – Cleaning and maintenance

Use mild soap or washing-up liquid to clean the toilet bowl, the seat and the lid as well as the outside of the toilet.

The rubber seal of the slider must be regularly maintained (once or twice a month, depending on use).

- Push the sliding plate in the direction of the swivel arm.
- Open the slider by turning the handle anti-clockwise.
- Use water to clean the gasket.

Dry the gasket, then moisten it with a lubricant from a spray can (alternatively, cooking oil can be used).



Fill the cassette with water and rinse it thoroughly.



Never use cleaning agents containing chlorine, solvents or other corrosive components.



Electrical appliances

1) Cooking hob

▪ Use

- In order to start and operate the hob, open the main shut-off valve of the cylinder.
- On the hob, turn the respective knob from the closed position (0) anti-clockwise to the maximum open position (large flame symbol).
- Press the button and hold it in this position.
- Switch on the burner by pressing the electric igniter switch.
- Use the knob to adjust the desired output (large or small flame).
- The ignition process must be completely visible, the view must not be obscured by other appliances or objects.



When using the cooking hob, you must open the nearby window to ensure a sufficient supply of fresh air. Make sure as well that the protective cover is fastened correctly to the refrigerator to prevent damages.



The grille on the lower opening of the safety ventilation behind the cooking hob must never be covered, not even partially. The opening must be checked regularly and cleaned if necessary.



After having used the cooking hob, make sure that the knobs have been returned to position 0 and close the main stopcock on the gas cylinder, if no other gas operated appliance is currently in use.

▪ Care

The grilles on the cooking hob can be removed for easier cleaning.

A conventional household cleaner is sufficient to clean the cooking hob. **Avoid scouring agents.**



Wait until the grilles have cooled down before you start cleaning.

2 – Refrigerator

▪ Use

Your vehicle is equipped with a compressor refrigerator. The refrigerator is designed for operation with 12 V DC.

The refrigerator allows you to store fresh food. You may also store frozen food in the freezer compartment.

Turn the temperature controller clockwise to switch the refrigerator on. After switching the refrigerator on it needs about 60 seconds until the compressor starts.

The temperature can be adjusted by using the controller. The integrated thermostat regulates the temperature as follows:

- 1 = lowest cooling power
- 7 = highest cooling power



The cooling power depends on the ambient temperature, the amount of food to be kept cool and the number of times the refrigerator door is opened.

▪ Keeping quality of food

- Turn the refrigerator on approx. 12 hours before filling it and only fill it with foods that are already pre-cooled.
- Always keep food in closed containers, wrap food in aluminium foil or similar wrappings.
- Do not put hot or warm food in the refrigerator, but wait until the food has cooled down.
- Never store food in the refrigerator which could emit volatile or ignitable gases.
- Delicate or perishable food must be placed directly next to the cooling elements.
- The freezer compartment is intended for ice-cream preparations and the short-term storage of frozen food. It is not suitable for freezing food.
- Protect the refrigerator from direct sunlight.
- Keep in mind, if parking the vehicle in direct the sunlight, the increased indoor temperature may adversely affect the power consumption and performance of the refrigerator.
- Always ensure unobstructed air circulation around the refrigerator.

- **Defrosting the freezer compartment**

Take out all foodstuffs and store in another refrigerator, if available. Turn the temperature controller to level 0. Keep the door open.



Never use any mechanical tools or heat sources to remove the ice layers or to loosen objects that are iced up or frozen in place.

- **Turning the refrigerator off**

- Turn the temperature controller to level 0.
- Clean the inside of the refrigerator.
- Close the door so that it clicks into place.

The door remains slightly open to prevent the development of odours.

- **Care**

The refrigerator can be cleaned with a commercial domestic cleaning agent. Avoid scouring agents.

- **Tips on saving energy**

- At an average outside temperature of 25 °C, it is sufficient to set the temperature controller to an intermediate position.
- If possible, only place food in the refrigerator that has already been pre-cooled.
- Protect the refrigerator from direct sunlight.
- Unobstructed air circulation around the refrigerator is essential.



Openings

1 – Windows

▪ Window adjustment devices

The side windows of your vehicle are all equipped with adjustment devices that allow opening in two different positions.

To open the window, unlock the lever by turning it a quarter turn toward the left to the vertical position.



Position 1

Position 2

Push the window to the desired position. A clicking sound indicates each possible position.



To close the window, open the lever to the stop and then lower it.



Before closing the windows, check that the lock is not blocked by any objects.

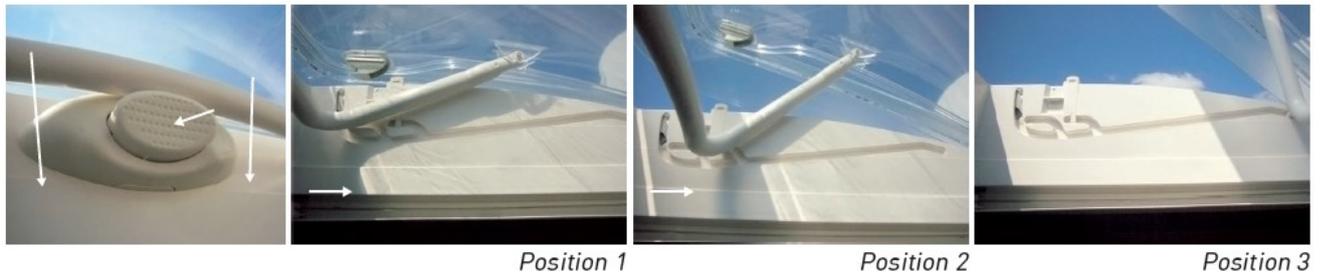


Do not forget to close and lock all windows before setting the vehicle in motion or when leaving the vehicle.

▪ **Skylight in the living room**

The living room of your vehicle is equipped with two skylights above the different living areas.

In order to open the skylight, press the release button to unlock the bracket and pull the bracket down. Then pull the bracket towards you to lock it into one of the three opening positions.



To close the skylight again, lift the bracket out of the recess, push it forward and slide it over the release button.

▪ **Bathroom skylight**

To open the skylight in the bathroom, turn the crank anti-clockwise. To close the skylight, turn the crank clockwise.



Do not forget to close and lock all skylights before setting the vehicle in motion or when leaving the vehicle.

Do not adjust the skylights while driving the vehicle.

3 – Blinds and insect screens

▪ **Blinds and insect screens on the window**

To close the blind, pull it up until it engages in the top lock. The insect screen is rolled and fixed in the reverse direction.



Insect screen

Blinds

No blinds must be closed while driving

The blinds are intended for darkening and not meant as a sun protection! The blinds on the roof hatches may only be closed 2/3 during the daytime! Heat accumulation causes deformation!

- **Blinds and insect screens for skylights**

To close the blind of the skylight, place it in the desired position.

The procedure is the same as for the insect screen.



- **Rear door darkening**

The rear windows of your vehicle can be darkened with an opaque curtain.

In order to darken the rear windows, simply pull the curtain across the entire length of the guide.



The curtain can be fastened with pushbuttons.



- **Curtains**

The rear windows of your vehicle can be darkened with curtains.

4 – Storage space

- **Pushbuttons for opening and closing doors**

To open a door, press the pushbutton until it clicks. The door lock opens when you release the pushbutton.

The pushbutton pops out and can now be used as a handle for opening the door.

To close the door, press the pushbutton again until you can hear a click, and then release the button.



The upper storage compartments in the living room can be opened with a handle.

To open the storage compartment, press the handle down and pull it out.

Do not overload the drawers!



Before starting your journey, always make sure that all doors (including cabinet doors) are properly closed to avoid opening of doors and the falling out of objects while the vehicle is in motion.



Shut-down for winter

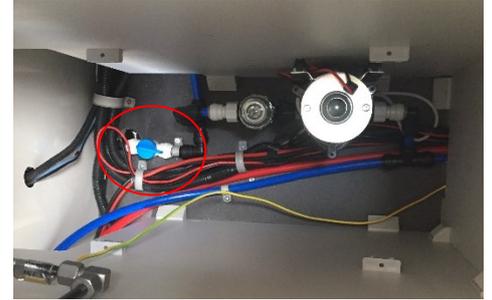
1 – Water



The water system must be drained completely to avoid the risk of mould formation or frost.

▪ **Draining fresh water** 

Turn off the power at the control panel.
 Open the fresh water drain valve located in the box on the rear right-hand side.
 Open all taps to ensure complete drainage.
 To finish the draining process, start the pump and let it run for a short period; keep the taps open during this time.



Drain valve of the fresh water tank

▪ **Draining the waste water** 

Before you start draining, clean the kitchen sink, the washbasin and the shower.

The tank is emptied only by means of a red manual drain valve located in the rear area under the vehicle.



Drain valve of the waste water tank



After you finish draining, store the red handle for the valve securely inside the vehicle.

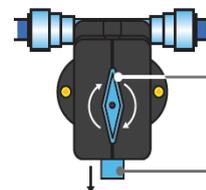


Waste water can only be drained at dedicated locations like roadside service areas, waste disposal stations or public and private sanitary facilities.

▪ **Draining the boiler** 

Turn off the pump on the control panel and open all hot water taps.

Turn the rotary knob of the drain valve (Frost Control) 90° until it clicks into place. The pressure switch is released from the engaged position and the drain valve opens.



Switch in "Off"-Position

Pressure switch pops out

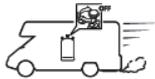
The water from the boiler is now drained to the outside via the drain valve. Place a container under the outlet to ensure that the boiler has been completely emptied (about 10 litres).

2-Gas



Before shut-down for a longer period of time, it is highly recommended to disconnect the gas cylinders and to store them in a well ventilated place.

Close the gas supply on the cylinder, disconnect the main stopcock and undo the fastening of the cylinders, so that you can take them out of their compartment.



3 – Electric power

Before any shut-down for a longer period of time, check that all battery pole heads are clean. If there are signs of oxidation (white powder), clean the pole heads and apply contact grease.

Even after the vehicle has been shut down, it will still consume a residual amount of electric power.

To prevent exhaustive/total discharge, it is necessary to

- either disconnect the batteries, if connection to a 230 V electric power supply is not possible, and store them at room temperature. The batteries must be charged for 24 hours once a month.

- or store them in the vehicle if connection to a 230 V electric power supply is possible. In this case, simply connect the vehicle to the electric power supply for 24 hours once a month to charge the batteries.



However, do not forget under any circumstances to switch off all electric appliances on the control panel before each step.



Never start the engine while the engine battery is disconnected. This would activate the anti-theft system.

In this case, the vehicle can only be started by your authorised dealer.

When disconnecting the battery, always start with the negative pole. This prevents a short-circuit when using a wrench to disconnect the battery.

To disconnect the battery, you must first press the button for the central locking system.

Press the button, then disconnect the ground terminal (negative pole) from the battery.

Take out the battery, then lock the vehicle manually with the key.

4 – Toilet

- **Toilet bowl**

Use mild soap or washing-up liquid to clean the toilet bowl, the seat and the lid as well as the outside of the toilet.



Never use cleaning agents containing chlorine, solvents or other corrosive components.

- **Cassette**

When required, empty the cassette.

Use a hose to thoroughly rinse the cassette's inside and outside.

Apply a 10 to 15% chlorine water solution or a non-foaming, perfume-free household disinfectant inside.

Lubricate the cassette by moistening it with a lubricant from a spray can (alternatively cooking oil can be used).

During the entire period the vehicle is shut down, remove the dispensing cap from the cassette to allow it to be aerated.

5 – Refrigerator

Empty the refrigerator completely.

Use the wedge to keep the door slightly open, so that no moisture can accumulate in the vehicle.

6 – Openings

Clean the windows and skylights of the living room with a commercially available washing-up liquid and plenty of water.

Use only cleaning and care agents approved by the window manufacturer

Lubricate joints and hinges.



Never use abrasive means (sand paper, scouring pads, etc.) or alcohol-based cleaning agents.

Close the window and the skylights properly (do not close the blinds).

Take up cushions and mattresses and store them in a dry place.

Open all cabinet doors to vent all cabinets.



Throughout the shut-down period, make sure that all doors and windows are opened completely once per month for approx. 10 minutes to vent the interior of the vehicle and to prevent the generation of unpleasant odours and the formation of mould.

Note: If the vehicle is parked in a garage, you may leave one or several windows in a permanent ventilation position to ensure natural ventilation.



Care

1 – Wash room

All sanitary facilities must be cleaned regularly in order to avoid any risk of mould formation.

Use a damp sponge and washing-up liquid or soapy water for the washbasin, the shower cubicle and the toilet bowl.

Use a sponge and a stainless steel detergent for the kitchen sink.



Never use cleaning agents containing chlorine, solvents or other corrosive components.

2 – Electrical appliances

▪ Refrigerator

Use a sponge and commercial domestic cleaning agent. Avoid scouring agents.

▪ Cooking hob

A conventional household cleaner is sufficient to clean the cooking hob. Avoid scouring agents.



Wait until the grilles have cooled down before you start cleaning.



Make sure that all burners are switched off before you fold down the cover.

3 – Openings

▪ Window panes

Clean the windows and skylights with a commercially available washing-up liquid.



Never use abrasive media (sand paper, scouring pads, etc.) or alcohol-based cleaning agents.

- **Seals and gaskets**

Clean seals and gaskets with a moist sponge and conventional washing up liquid. Thoroughly rinse and dry after cleaning. Apply talcum powder or cleaning agents approved by the window manufacturer on rubber gaskets.

4 – Fabrics

- **Mattresses and upholstery**

Remove mattresses and upholstery regularly for airing them out to prevent any accumulation of moisture.

Remove the dust from the upholstery and the mattress outside the vehicle.



Do not use any aggressive petrol or acetone based stain removers but a more suitable product (test first on a less exposed area of the fabric).

Never wash cushions and mattresses with water.



5 – Furnishings

Clean furniture with a dry, soft, antistatic dust cloth.

The hard-fibre table must be cleaned with a moist sponge and conventional detergent.

Dry the hard-fibre table well after cleaning with a damp cloth.



Never use abrasive products (sand paper, knife, etc.). Use a clean sponge to avoid streaks.



6 – Exterior cleaning

Clean the vehicle body regularly with water and conventional washing up liquid; use a special sponge for bodywork and a suitable cloth. Rinse off with plenty of water after cleaning.



Do not wash your vehicle in a car wash station with rotating washing cylinders as this may cause damage to the outside of the vehicle. Minimum distance when using high-pressure jets is 1 metre!



Miscellaneous and accessories

1 – Step

Your vehicle is equipped with an electric step for easy access to the living room.

To extend the step, press the left arrow of the key in the living room's entrance.

To retract the step, press the right arrow. If you forget this, the step will automatically retract when the vehicle's engine is started.

Never stand on the step while retracting it!



2 – Awning (optional)

To extend the awning, operate the hand crank.

Extend the two support legs and adjust the desired height of the awning using the locking mechanism in the respective catch.



Do not use the awning in a strong wind.



Do not forget to retract the awning before moving the vehicle.

Use soapy water to clean the awning. Dry it well after the last use, or before it is not used for a long period. Never roll it up while wet!

3 – Bicycle carrier (optional)

To extend the bicycle carrier, pull the locking hooks aside.

The bicycle carriers can be securely fastened to the vehicle with various accessories which ensure safety during transportation.



The bicycle carrier is previewed exclusively for the transport of bicycles. Do not use it to carry luggage. Do not exceed the load capacity of the bicycle carrier (approx. 35 kg for two bikes including the bike's own weight).



Do not attach more bicycles than there are support bars on the carrier.

4 – Television (optional)

The TV set can be operated independently with 12 V or 230 V. Please follow the manufacturer's instructions regarding the connection. By an articulated arm which is attached to the side of the wardrobe, the TV set can be set up to watch television from any location in the living room.

5 – USB connection

Your vehicle is equipped with a USB port. It is located above the wardrobe.



USB

6 – Solar panel (optional)

By means of the solar panel you will be able to supply the vehicle with another energy source in addition to the 230 V supply.

12 – Notes on safety

Optional accessories are not included in the empty weight of your vehicle.

Therefore accessories must be taken into account when loading and calculating the total weight of your vehicle.

Basic information:

- Awning: 30kg
- Bicycle carriers (unloaded): 7.5kg

All accessories may only be used for their intended purpose, otherwise there is a risk of an accident to occur.

The maximum loads in the stowage compartments must be strictly observed and loads must be distributed evenly.

Objects with a weight in excess of 20kg must be tied down.



Troubleshooting

The following list of possible faults which may potentially occur on different appliances in your vehicle and their causes is by no means complete.



If everything seems to be normal but the problem still persists, please contact the customer service of your authorised dealership.



For safety reasons and to keep the warranty valid, any changes to the systems – in particular the water, gas and electric systems – must be carried out by your authorised dealer.

1 – Water system

- **No water coming out of the taps.**
 - The fresh water tank is empty.
 - The pump has not been switched on (the control light on the control panel is off).
 - Leave the tap open for a few seconds to allow air to escape, which may have got trapped in the water circuit.
 - The drain valves are open.
 - The boiler is empty.
- **The water does not drain from the kitchen sink, the washbasin or the shower.**
 - The waste water tank is full.
- **The water drains from below the vehicle.**
 - The fresh water tank is too full. Wait one minute until the excess water has drained.
 - The fresh water tank drain valve is open.
 - The waste water tank is full.
 - The waste water tank drain valve is open.
 - The drain valve of the boiler is open.

2 – Gas system

- **One or several gas-operated appliances do not work.**
 - The gas supply of the cylinder is closed or separated.
 - The gas cylinder is empty.
 - Check the pressure gauge.

It is imperative that you check for a leak in the gas system. Gas that has escaped from the system can be recognized by its smell, or by applying soapy water to the connecting points. The formation of bubbles at these connections indicates a gas leak. Never use an open flame to check for a gas leak.

3 – Electrical system

- **One or several electrical appliances do not work.**
 - The appliances are not in the “ON” position.
 - Switch on the electric power supply on the control panel.
 - The circuit breaker has tripped.
 - The fuse for the corresponding appliance must be replaced. Make sure you have switched the electric power supply off before changing a fuse.
 - The contacts of the living room battery B2 are not correctly positioned.
 - The contacts are covered with soot (sulphate present)
 - Check the fuse of the automatic circuit breaker behind the cover to the right of the passenger seat.

4 – Heating system

- **The heater is not working**
 - Replace the fuse.
 - Check to ensure that sufficient fuel is available and/or that the temperature selected at the circuit breaker is not below the room temperature.
 - Check that the intake port for cold air is not blocked.
 - Make sure that the window with activation switch is correctly connected to the window.

5 – Toilet

- **The slider does not work.**
 - The cassette is full.
 - The cassette is not correctly locked.
- **The toilet cannot be flushed.**
 - The fresh water tank is empty.
 - Pump is idling, because air has accumulated in the system.
 - The cassette is not correctly locked.
 - The fuse in the enclosure of the toilet cassette or the fuse in the fuse box must be replaced.

KARMANN



KARMANN



Model year 2020