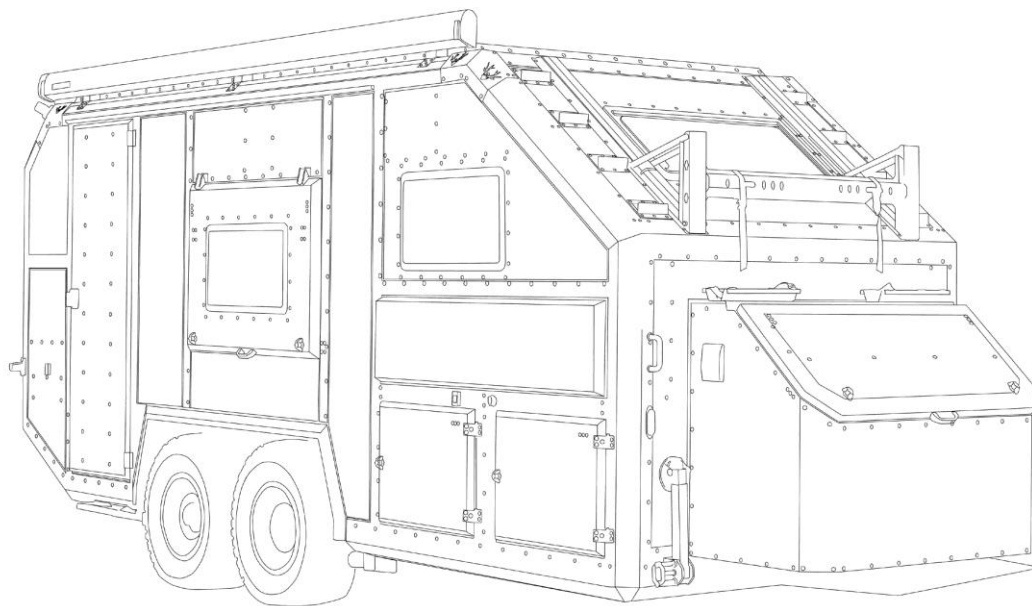


# BATU535



**EN**

**User Guide**

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## Foreword

Use the user guide to access specific information and familiarize yourself with your caravan's functions. In addition to standard equipment, this manual also describes optional equipment or accessories. This user manual helps you to enjoy your **BATU535** as best as possible. It also contains important information that concerns the safety of you and other users.

**Thanks for choosing CRAWLER!**

*\* Certain countries may have legal requirements that affect the level of equipment.*

*\* CRAWLER continues its continuous product development efforts to provide a better experience. Features, designs and illustrations in the user manual are not binding. CRAWLER reserves the right to make changes without prior notice.*

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## Basic Warnings

### Things to check before setting off;

- Be sure to adjust the pilot wheel to the vehicle's drawbar height.
- Make sure the coupling and stabilizer are in the open position.
- Position the coupling to engage the vehicle's drawbar and lower the pilot wheel in this position.
- Raise the pilot wheel again to check the connection, the rise of the vehicle and the BATU535 together indicates that the connection is secure and correct.
- After connecting the caravan to the vehicle, make sure to collect the pilot wheel and the handbrake is released.
- Check the socket connection. Make sure that the signaling system (tail light, signal, etc.) is working in your caravan.
- Make sure the gas valve is closed.
- Make sure doors and cabinets are locked.
- Make sure that the step and fixing feet are in the closed position.
- Make sure the awning is closed and locked.
- Place breakable items in cabinets.
- Make sure the battery is full.
- Make sure windows, doors and cabinets are closed and locked.
- Check your tire pressures.
- Check the charge status of the battery.
- Check the lighting system.
- Load the BATU535 by keeping the weight balance in mind.
- Be sure to use the caravan in road mode while driving.

### Things to consider while traveling;

- For safety reasons, do not exceed 80 km/h, even if the speed limit in some countries is higher.
- When descending long and steep slopes, the brake is loaded more than normal. Shift to a lower gear and adjust your speed.
- While traveling, there should be no living creatures inside the BATU535, (people, pets, etc.)
- Do not keep flammable and explosive materials in BATU535.
- Make sure breakable items are secured inside BATU535.
- Pay attention to the approach angle between the vehicle and the caravan when reversing.
- Caravans equipped with air suspension (C.D.S.) are recommended to be used in road mode and with the compressor on.
- Attention should be paid to the height of the caravan (2.50 m) at the parking garage and garage entrances.

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## Things to consider while camping;

- Before separating BATU535 from your vehicle, make sure that the parking brake is applied.
- Before assembling the pilot wheel, make sure that the fixing feet are in the open position.
- Make sure the cassette toilet is emptied.
- The fullness of the dirty water tank must be checked and emptied to legally appropriate places before it reaches 100% fullness.
- It is recommended not to use the awning in strong wind conditions.
- Make sure the gas valves are closed when the stove is not in use.
- It is recommended to use propane-added tubes in order to prevent the tube from freezing in cold weather and to use the tube-operated devices effectively.
- Make sure the solar panel surface is clean.
- For clean water use make sure the water tank is full.
- Pay attention to the load balance in the caravan living area when the vehicle is on the outriggers in the camping position. All users staying in the same area may destabilize the vehicle.
- Make sure that the gas cylinders are full for boiler use.

## Things to consider while parked;

- Make sure the handbrake is engaged.
- It is recommended to park the BATU535 on level ground.
- Make sure doors, windows, cabinets and awning are closed and locked.
- In case of long-term parking in winter, empty the dirty water tanks and the clean water tank so that there is no water in the booster.
- In case of long-term parking, keep the main switch off.
- It is recommended to take a safety precaution by using a coupling lock.
- Do not leave flammable or explosive materials inside BATU535.
- It is recommended that you do not leave products in the refrigerator when you are not using the BATU535.
- Make sure the gas valve is closed.
- It is recommended to ventilate the inside of BATU535 at regular intervals.
- Provide external cleaning of BATU535 at regular intervals.

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## **Safety**

### **Passenger Transportation**

Since there is no seat belt in the caravan, it should not be traveled in the caravan while driving in order to balance the weight distribution.

### **Pull and Weight Distribution**

Weight distribution is an important factor when loading your camper before travelling. An evenly distributed caravan will result in efficient and trouble-free towing.

In order for the caravan to be able to go out on the road in a healthy way and not to sway, especially on bends, the center of gravity should be spread inside the caravan, not on one side.

### **Swinging Control**

Swinging or fishtail is the sideways movement of the caravan caused by external forces. Excessive rocking of your camper can cause the caravan and towing vehicle to topple over, resulting in serious injury or death.

### **Tire Safety**

Properly maintained tires improve handling and stopping. The wheel nuts must be properly tightened.

### **Tools and Equipment**

Appliances (stove, refrigerator, etc.) and equipment (hot water heater, oven, etc.) typically run on LPG. LPG is flammable and is under high pressure. Misuse may cause fire and/or explosion. Be sure to follow all instructions and warnings in the manual, as well as in the device and equipment specific user manuals.

### **Mold**

Mold and mildew spores are present in indoor and outdoor environments. In order to keep all mold and mildew spores under control, check humidity and ventilate your caravan regularly. A healthy ventilation should be provided to control humidity.

### **Chemical Sensitivity**

Immediately after the caravan is purchased, and sometimes after a long period of inactivity, a strong odor and/or chemical sensitivity may be experienced. It's not a fault of the caravan. As in homes, many different products are used in the construction of caravans, such as carpet, linoleum, plywood, insulation, flooring. In the use of different materials, odor sensitivity is more obvious. Since the caravan has small living spaces, the air exchange inside is significantly less than the house.

These products can outgas different chemicals, including formaldehyde, when new or when exposed to high temperatures and/or humidity. This outgassing, along with minimal air exchange, can cause irritation of the eyes, nose, and throat, and sometimes headaches, nausea, and various asthma-like symptoms. The elderly and young children, as well as anyone with asthma, allergies or lung problems, may be more sensitive to the effects of gassing.

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## Ventilation

It is very important to ventilate the caravan to reduce exposure to chemicals from outgassing. Ventilation should be done frequently after purchase and when temperatures and humidity rise. Note that gas output is accelerated by heat and humidity. Open windows, vents and doors. Use natural ventilation or a fan to expel stale air and bring in fresh air. Reducing airflow by sealing the caravan increases the formaldehyde level in the vehicle's interior air.

## Do not smoke

Smoking inside the caravan will damage the caravan and also release other toxic chemicals such as formaldehyde.

## Medical Advice

Questions about the effects of formaldehyde on your health should be addressed to your doctor or local health department.

## Alarms and Detectors

### LPG/CO Detector

Please read the entire detector manual before operating the unit. The LPG/CO detector is located in the kitchen area. LPG is a mixture of gases produced and sold commercially as fuel for heating and cooking appliances. LPG is highly flammable and as a result can be explosive when ignited under certain conditions. LPG is heavier than air and will accumulate near the floor if confined to a confined space. The LPG/CO detector is designed to alarm when propane gas exceeds 10% of the lower explosive limit for more than 30 seconds or when CO gas reaches unsafe levels. The horn will beep continuously and the red LED will illuminate when propane gas is detected. If CO gas is detected, the horn will sound 4 quick chirps followed by a 4 second pause and the red LED will flash quickly. Your LPG/CO detector is directly connected to your caravan battery and includes a fuse. There is no separate internal battery. In normal standby mode, the LED indicator will be green.

## Low Voltage

The detector's operating voltage is 12 VDC. The voltage supplied to the detector in the caravan may drop below 8 VDC minimum. The detector gives the user a low voltage warning before it reaches this level and gives additional clear warnings and alarms after the 8 VDC level is reached. However, if the current power supplied to the unit is below the operating voltage of 8 VDC, the detector will not detect the gas or protect against dangerous LPG levels.

## Note

If a low voltage warning sounds, the detector will need to be reset by disconnecting the battery before normal operation can occur.

## Warning

Activation of this detector indicates the possible presence of LPG which could cause an explosion and/or fire, resulting in serious injury or death. This normally indicates a leak in the LPG installation or an LPG device. Extinguish all open flames, open your windows and doors, and evacuate the unit immediately. Do not use any electrical switches. Turn off the LPG in your gas tank(s). Do not re-enter your unit until a qualified repair technician has corrected the problem and confirmed that the system is safe.

### **Warning**

It is not recommended to power off the detector during storage. There is a small heater in the sensor of the device that burns the dirt in the air during normal usage periods. During power-off periods, impurities may accumulate on the sensor. When power is restored to the detector, the detector alarm can activate until the impurities are burned. This may take several hours, during which time the alarm will be on continuously.

### **Warning**

After 5 years of use, the detector should be replaced. If it is not changed, it may not alarm. CO poisoning is popularly known as stove poisoning and can cause death.

### **Warning**

The device is for general domestic, domestic and caravan use. It cannot be used in workplaces. It does not meet the required OHS rules. It needs a more sensitive detector especially for groups at risk for CO poisoning (pregnant women, patients, etc.).

### **Warnings**

- Carbon Monoxide is produced as a result of incomplete combustion of fuels such as wood, coal, heating oil, paraffin, gasoline, natural gas, propane, butane.
- Ideally, it is recommended to install a Carbon Monoxide detector in or near every room where fuel-burning appliances such as room heaters, water heaters, stoves, grills are located.
- Ensure that the alarm horn can be heard by everyone it is intended to hear. Seek medical attention if the caravan user is suspected of being affected by Carbon Monoxide poisoning.
- If the alarm goes off, be sure to investigate the problem. Ignoring the alarm could result in illness, injury or death. (CO may be present even if nothing is seen or smelled by the user.)
- When household cleaning materials are used, room spaces should be well ventilated as this may cause false alarms.



## Equipment List

### Exterior Design

- Windows with Mosquito Nets and Curtains
- Externally Accessible Bathroom
- Was Sliding LED Stops \*
- Was Side Track Lights \*
- Was Side Horn Lamps \*
- License Plate Lighting Lamp
- Outdoor LED Lighting
- External Storage Cabinets
- Exterior Wardrobe Lightings
- Chrome Locked Covers and Doors
- Chrome Cabinet Door Stoppers
- Side Opening Navigation Cover
- Rear Opening Kitchen Service Door
- Height Adjustable Fixing Feet (4 Pieces)

### Interior Design

- Electrostatic Powder Coating (Cabinet and Interior Walls)
- Ceramic Based Internal Heat Insulation
- Carpet Application on PVC Floor Covering
- Chrome Locked Storage Cabinets
- In-Door Storage Areas
- USB Charge Inputs
- 12v Cigarette Lighter Input
- LED Indoor Lighting with Dimmer

## Living and Sleeping Area

- 6 Person Seating Area
- Seat and Back Cushions
- Convertible Sofa to Bunk Bed (2 180x70 cm Beds)
- Bunk Bed Railing
- Movable Dining Table

## Bedroom

- Sliding Door with Mosquito Net and Curtain
- Main Bed (205x165 cm)
- Wardrobe
- Item Drawers
- Storage Cabinets
- LED Lighting
- Valuables Safe
- Bedside Charge Inlets

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## **Kitchen Area**

- Fixed Chrome Kitchen Countertops
- Kitchen Ware Drawers
- Under Counter Cabinets
- Counter Top Cabinets and Shelves
- Triple Stove
- Chrome Sink
- Hot & Cold Adjustable Battery
- Thetford 152 L Refrigerator \*

## **Bathroom/ Toilet**

- Aluminium Exterior Door
- Aluminium Interior Door
- Compact Laminate Flooring
- Bathroom Steam Evacuation Fan
- Thetford Cassette Toilet System \*
- Folding Sink
- Hot & Cold Adjustable Shower Head

## **Electrical/ Electronic/ Control Installation**

- 13 PIN Socket
- Crawler Smart Panel
- Victron Energy 220 Ah Gel Battery\*
- Victron Blue Smart Charger (20 Ampere) \*
- 220v Charge Input
- Charging Cable and Bag

## **Heating / Cooling / Gas Systems**

- Truma Combi 6z (Ambient and Water Heater System) \*
- Hot Air Outlet from 4 Points
- Truma Duo Control Panel \*
- Truma Gas Antifreeze \*
- Truma 2 Gas Valve \*
- Truma Collision Sensor \*
- Gas Filter
- Gas Regulator
- Gas Detector
- Copper Gas Installation
- Ceiling Hex Glass with Internal External Ventilation
- Crawler Smart Panel

## **Water Pipe System**

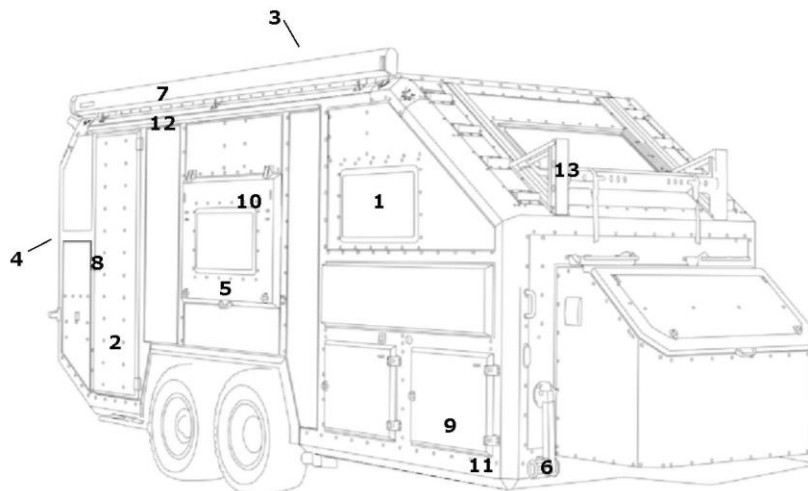
- Water Pump (19 L/Min.)
- Chrome Water Fill Cap
- Chrome White Water Tank (136 L)
- Chrome Gray Water Tank (45 L)
- Black Water Tank (17 L)
- Water Drain Valves

## Optional Features

- Schmid Solar Panel 325w & Regulator \*
- Solara Solar Panel 160w & Solara Regulator\*
- Leveling Dynamic Air Suspension (C.D.S.)
- Awning Front Tent (Summer, Front, Right, Left)
- Awning Front Tent (Winter, Front, Right, Left)
- Truma Mover XT4 \*
- Bicycle holder (15 kg x 1 piece)
- Crawler Chrome Barbecue
- Thule Awning (4 Meters) (Light Gray) \*
- Gas Output (BBQ)
- Fishing rod holder
- Weaponry
- Victron Energy 220 Ah Battery (Extra) \*
- Neta Portable Satellite \*
- Thule Electric Step\*
- Truma Aventa Compact Plus Ceiling Air Conditioner \* (+20 cm added to Ceiling Height)
- Water Freeze Protection Unit
- Come Up Crane or Equivalent (12000Lb) \*

## Schematic Explanation

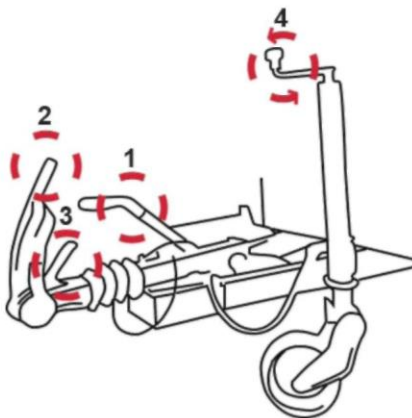
1. Right and Left Windows with Mosquito Nets and Curtains
2. Side Entry Door
3. Side WC Entry Door
4. Back Kitchen Cover
5. Side Opening Navigation Cover
6. Height Adjustable Fixing Feet (4 Pieces)
7. Awning
8. Chrome Plated Locks
9. BBQ Area
10. High Angle Chrome Hinge
11. Side Track Lights
12. Outdoor LED Lighting
13. Bicycle holder



## Use of BATU535

### Separating the Caravan from the Vehicle

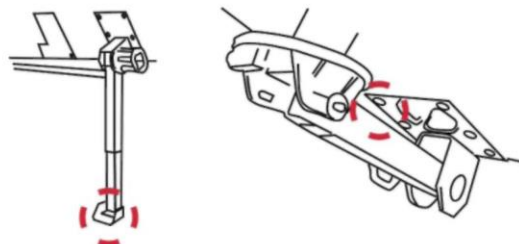
Pull the handbrake. **(1)**  
 Lift the stabilizer up to a vertical position. **(2)** Lift the coupling arm upwards to the vertical position. **(3)** Raise the caravan by turning the pilot wheel lever counter-clockwise and disconnect the coupling from the vehicle's drawbar. **(4)**



## Using the Fixing Feet

There are four fixing feet, two at the front and two at the back. Release the stabilizer foot by pulling the red handle of the stabilizer foot towards you and move it to the position you want to adjust. Then adjust the height of the fixing foot by turning the wheel bolt inside the red handle clockwise with the help of the wheel wrench inside the caravan.

In order to close the fixing feet, first the handle is inserted into the red pin and rotated. Then the red arm is pulled and the foot is lifted up.

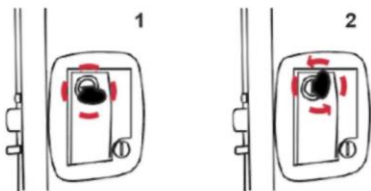


When the rear fixing legs are not opened, there may be an imbalance in the rear of the caravan due to the weight.

## Opening the Entry Door

### Top Lock;

Turn the upper lock entry in the horizontal position (1) counter-clockwise to the vertical position and remove it. (2)



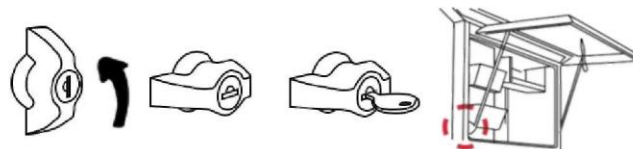
### Bottom Lock;

(3) Turn the vertical lower lock hub clockwise.

(4) After the lock bolt is in, turn the key back to the vertical position and remove it.



## Using Kitchen Back Cover and Cabinet Locks



### Kitchen Back Cover

- The Kitchen Back Cover provides the opportunity to use from inside and outside.
- Thanks to the LED strip on the Kitchen Back Cover, the kitchen section is illuminated.

### Cabinet Locks:

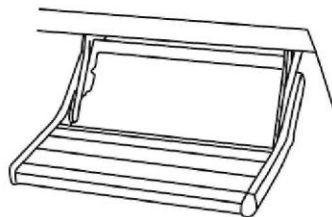
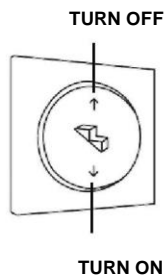
- First, unlock the caravan by turning it counter-clockwise with its own key.
- Then turn the lock lever counter-clockwise to unlock itself.



Before and after use, it should be checked that the pistons are intact. The cabinet door should be opened 30-60 cm behind. Otherwise, it may cause injury.

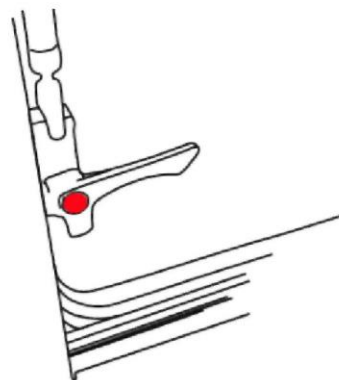
## Using the Electric Step

To turn on the electric step, press and hold the button located at the bottom right of the entrance in the downward direction. Press and hold upwards to turn it off.



## Using Windows

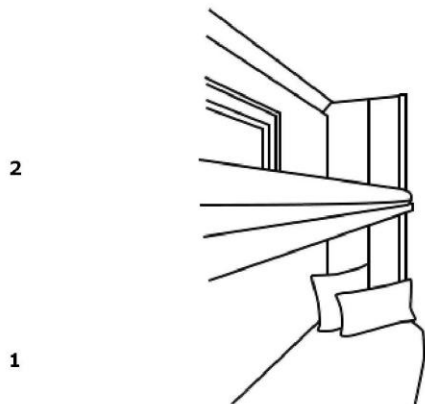
There are three locks on the windows. While unlocking, turn the levers inward while holding down the red pins. After turning the locks, push the window from the inside out.



Pay attention to the piston when opening the windows. Window opens and closes from inside to outside!

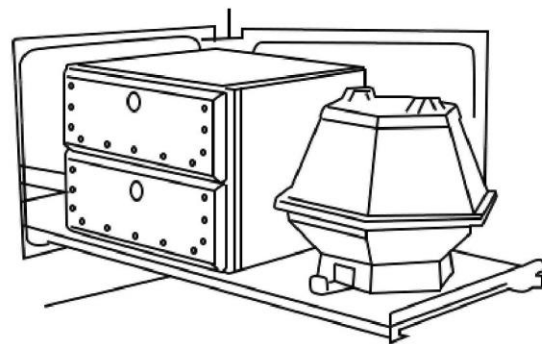
## Using the Bunk Bed (Turning to Bed)

While turning the seat part into a bunk bed, lift the backrest **(1)** towards you so that it is parallel with the seat. Then, fix the railing to the upper bunk section with the help of the locking system **(2)** on the right and left sides of the backrest.



## Use of the Barbecue Area

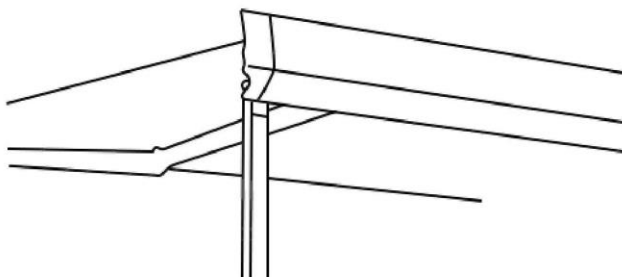
To use the barbecue area, open the lock on the left and pull the barbecue area towards you. Fix the rail system with the help of the lock.



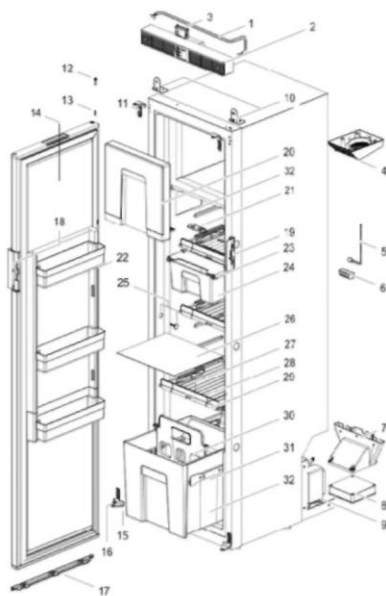


## Using the Awning

To open the awning, turn the awning handle by inserting it into the hole on the left side of the awning. After opening the awning, open the two upper legs (1) and fix them to the fixing points on the body of the BATU535.



## Refrigerator Diagram



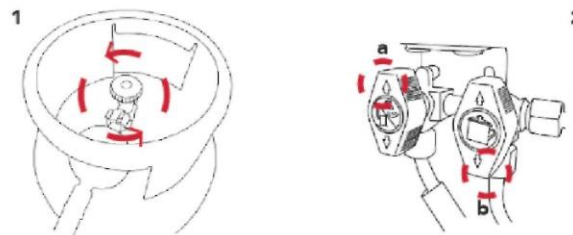
1. Power cord
2. Control housing
3. Control PCB
4. Built-in fan
5. Thermistor
6. Thermistor cover
7. Condenser fan cover

8. Condenser fan
9. Control module
10. Control housing bracket (2x)
11. Hinge plate top
12. Upper hinge pin
13. Hinge spring
14. Cabin door
15. Hinge plate base
16. Lower hinge pin
17. Bottom panel holder
18. Door handle
19. Door lock plate
20. Freezer door
21. Built-in lamp cover
22. Bin (3x)
23. Lid slide box
24. Slide out
25. Diameter (4x) and Screw (4x)
26. Plate
27. Clip shelf
28. Rack
29. Shelf food holder
30. Drawer divider
31. Drawer guide L + R
32. Drawer
33. Identification tag

## Stove Use

Open pit use of BATU535,

1. First of all, the valve of the tube in the front cabinet of the caravan is opened in order to open it for use. **(1)**
2. There are two valves inside the cabinet. **(2)**
3. On the right is the gas valve of the stove. **(A)** The one on the left is the boiler system water heating valve. **(b)**
4. Light the stove with the help of the lighter and adjust the temperature of the gas coming to the stove with the stove top buttons.
5. There is a ventilation system just below the stove.
6. When using the combi system, you can adjust the settings from the Truma Panel.

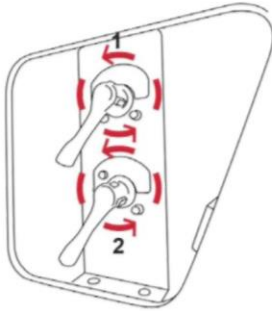


- Thanks to the automatic gas cut-off safety system, the stove turns itself off in case of emergency.

- Compatible with LPG & Natural Gas.



## Use of Dynamic Air Suspension (C.D.S.)



### Setting:

Make sure that all the equipment of the caravan is placed in their standard positions. Suspension works separately as right and left.

The handles on the left front cabinet of the caravan are turned to the left to get the highest mode from road mode. **(Off-road) (1-2)**

When it is turned to the right, it is put into **camping** mode. It is in road mode when the levers are in the middle position. **(On-road)**

Make sure no one is inside the caravan while using the air suspension. Both bellows should be ideal and in the same position.

Tighten the bellows separately with the help of the clamp to prevent the setting from changing later. To level the BATU535 on sloping terrain, you can level it by changing the height of one side.



### Usage Modes:

#### Road Mode (On-road)

The caravan must be used continuously while in road mode. Set levers to middle position for use in road mode. Levers in the highest (off-road) mode are put into road mode before normal travel. The compressor switch must be on while traveling.

#### Off-road Mode

It maximizes the vehicle's traction when driving on difficult terrain and rough roads. Drive mode provides high ground clearance. It is required for use on rough terrains when necessary, except for long-term use. The distance between the rim and the fender is adjusted to 70 cm by moving it up and down thanks to the air valve rod. When the bar is lowered, the caravan also moves down.

#### Camp Mode:

When the caravan leaves the vehicle, it is put into camping mode. Make sure to turn the levers to the right to lower it into camping mode. Air suspension, in camping mode, the vehicle can be adjusted to the desired height, left and right, according to the slope of the terrain.

## Interior Equipment Refrigerator Usage

- You can adjust the temperature of the refrigerator with the level-adjusted cooling feature.

*(For detailed information, see the user manual of your refrigerator brand.)*

### What if the refrigerator does not work?

- Attention is paid to the indicators on the Crawler Smart Panel or Control Panel.
- Paco switch is opened and closed.
- Battery level is checked.
- If there is a problem with the refrigerator, the user manual of your refrigerator brand is checked.

## Battery/ Sink Usage

- To put it into use, first check the clean water level in the tank.
- Turn on the booster before using the battery.
- You can use the battery from inside and outside thanks to its rotating head.
- When the battery is not in use, it can be kept closed thanks to its foldable feature.

### What if the battery does not work?

- Attention is paid to the water level indicator on the Crawler Smart Panel or control panel.
- The booster is checked.
- Battery level is checked.
- If there is a problem with the battery, the user manual of your battery brand is checked.

## Clean Water Inlet

- To fill the clean water tank (136 L) open the clean water inlet by turning it counter-clockwise with the help of a key.
- Empty the clean water tank from the clean water inlet to the clean water tank inside.
- Lock the lid after filling.



## Dirty Water Outlet

There are two dirty water outlets in the kitchen area **(1)** and the bathroom **(2)** separately.

### For the dirty water outlet of the kitchen area;

- The dirty water tank **(45 L)** is emptied with the help of the valve located at the back of the caravan.



### For the dirty water outlet of the bathroom area;

- Bathroom drains accumulate in the dirty water tank. The dirty water tank (45 L) is emptied with the help of the valve located at the back of the caravan.
- When the booster level approaches the critical level, in order to restart the booster, the drain valve of the dirty water tank should be opened and the tank should be emptied in an appropriate place.
- Attention is paid to the water booster warnings on the Crawler Smart Panel or control panel.

## Stove Use

- Open pit use of BATU535,
- First of all, the valve of the tube in the front cabinet of the caravan is opened in order to open it for use. **(1)**
- There are two valves inside the cabinet. **(2)**
- On the right is the gas valve of the stove. (A) The one on the left is the boiler system water heating valve. **(b)**
- Light the stove with the help of the lighter and adjust the temperature of the gas coming to the stove with the stove top buttons.
- There is a ventilation system just below the stove.
- When using the combi system, you can adjust the settings from the Truma Panel.



Thanks to the automatic gas cut-off safety system, the stove turns itself off in case of emergency. Compatible with LPG & Natural Gas.

## Using the Cassette Toilet

### Thetford Cassette Toilet

**Dimensions:** H 534 / W 394 / D 580 mm

**Seating Height:** 492 mm

**Waste Tank Capacity:** 18 Liters

**Weight:** 7.2 Kg

**Energy:** 12 V

1. Open the toilet seat for use.
2. The seat of the toilet has a 90° swivel feature.
3. Liquids called "caravan toilet chemicals" are poured onto the tape to break up waste and prevent odor. Pour the toilet chemical into the tank **(3)** at scale before use.
4. During use, open the drain by turning the latch **(1)** in front of the toilet to the left. Close the drain by turning it to the right after use.
5. In order not to have to carry the waste tank cassette, it can be transported more simply with the wheel system and pull handle **(2)**.
6. When the toilet bowl is full, the indicator next to the toilet will turn from green to red. **(4)** The unloading process is done by sliding and dismounting, thanks to the cover on the rear left cabinet of caravan.
7. Do not forget to turn off the lock after emptying and cleaning.



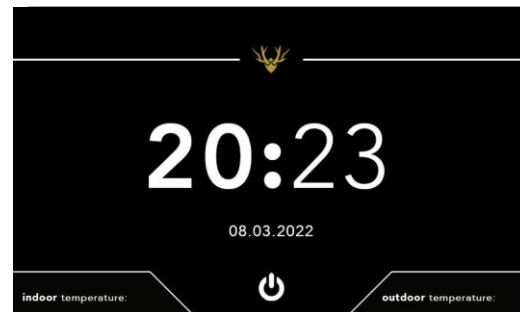
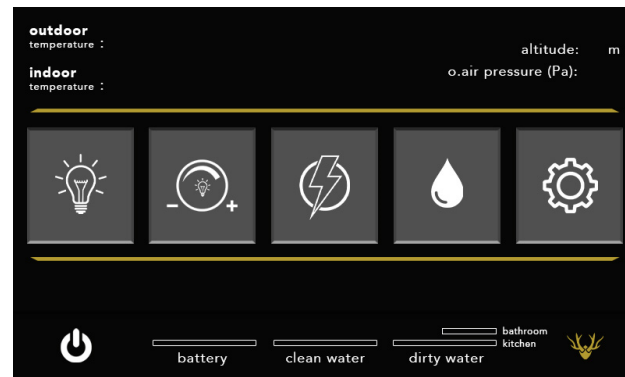
## Crawler Smart Panel

Crawler Smart Panel is opened by pressing the physical unlock button at the bottom of its screen once. Each time the physical button is pressed, the system is restarted. When the screen is opened for the first time, a visual like the illustration below will appear on the screen.



The first button from the left and the **"Light"** symbol on it allows you to control the entire lighting system connected to the panel inside and outside the caravan. The button second from the left and with the **"± Light"** symbol on it provides access to the menu where the light intensity (dimmer) of the lightings in the caravan is adjusted. The third button from the left with the **"Lightning"** symbol provides access to the menu with information about the electric and solar panel of the caravan. The fourth button from the left and the **"Water Drop"** button on it provides access to the menu where the status of clean

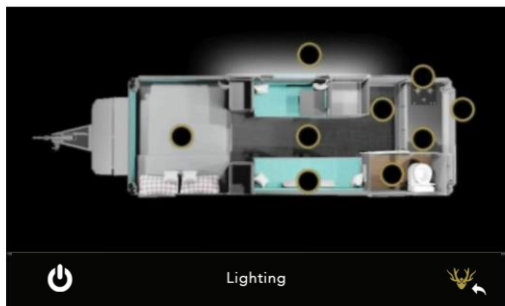
/dirty water tanks of the caravan, booster, frost protection operations are managed and displayed. The button on the far right with the **"Wheel"** symbol provides access to the battery capacity, time and date adjustment menu, and the menu that provides access to the screen brightness controls.



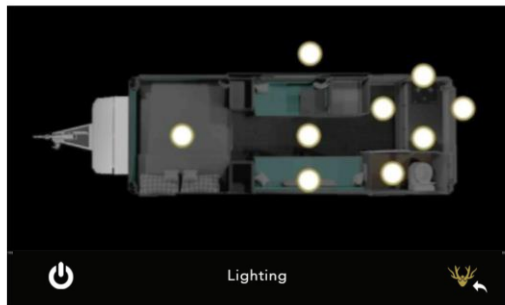


## Lighting Menu

The lighting menu is accessed by pressing the button with the "Light" symbol on the main screen. The following menu will appear on the screen when the screen is first opened.

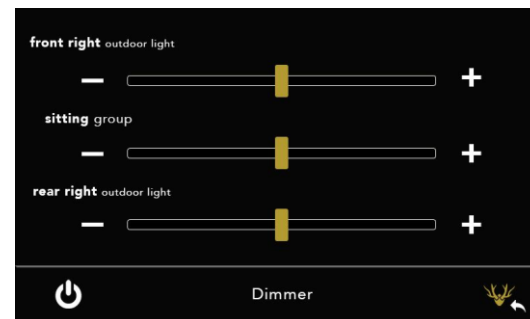


Circular buttons indicate the position of the lights inside the caravan. The white button means "Light Off" and the black button means "Light On".



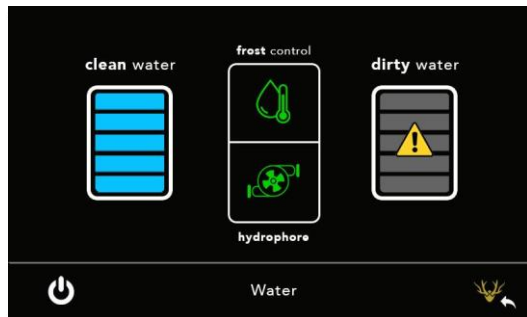
## Dimmer Menu

The dimmer control menu is accessed by pressing the button with the "+/- Light" symbol on the main screen. There are three zones in the dimmer menu. There are two buttons "+" and "-" for each zone. The control of the light intensity of the zones is done from this menu. It is used to decrease and increase the brightness of the lighting system of the relevant area.



## Water Menu

The Water Control menu is accessed by pressing the button with the "Water Drop" symbol on the main screen. When you enter the menu, a page appears as seen in the image below.



As shown in the image, there is information about clean water on the left side of the screen, and information about dirty water on the right.

There are two buttons in the middle of the screen. The button at the top provides **"Frost Protection"** and the button at the bottom provides the **"Booster"** control.

In winter, the frost protection system must be active at temperatures of 4°C and below. Otherwise, if the tank is full, the water in the tank will freeze and increase in volume, and the tank or the plumbing system may be damaged depending on the increased water volume. Being half full of the tank can prevent damage caused by freezing, but if the water freezes, the system will become unusable. In cases of freezing, the booster should be turned off.

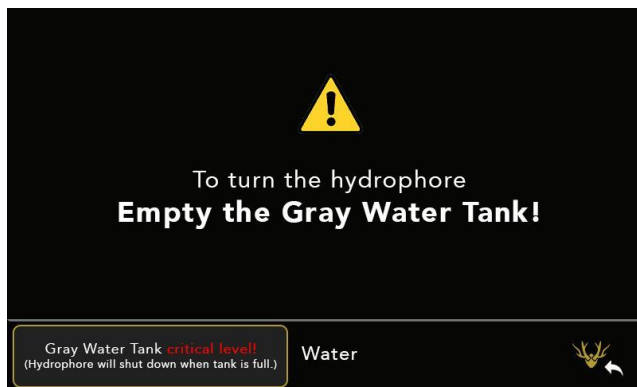
If the caravan is not going to be used, it is recommended that the tanks be completely emptied and parked in winter, otherwise, there may be damage to the tanks due to freezing. CRAWLER company is not responsible for malfunctions and damages that may occur due to freezing.

When the buttons in the Water Menu are active, they will appear in **"green"** color, while inactive, they will appear as **"white"**. The booster is not active when the system is first turned on. In order to be able to use the water system in the caravan, the booster is activated after the system is turned on, if the system is completely turned off and opened or reset, the booster will become passive again, in which case it is necessary to reactivate the booster.

After the booster is activated, even if all the taps are closed, the booster can continue to work for a while, this is due to the balancing of the pressure in the pipe in the water system. If the boiler tank is empty, this will take a little longer. After the booster is activated, when any faucet connected to the caravan is opened, water will automatically start flowing. When the dirty water tank is full, the booster will automatically turn off in order to prevent overflow. In this way, any overflow situation that may arise from the caravan installation is prevented.

When the dirty water tank reaches 75% level, the warning shown in the picture below appears at the top of the water page, informing that the tank is full and the booster will stop when the tank level

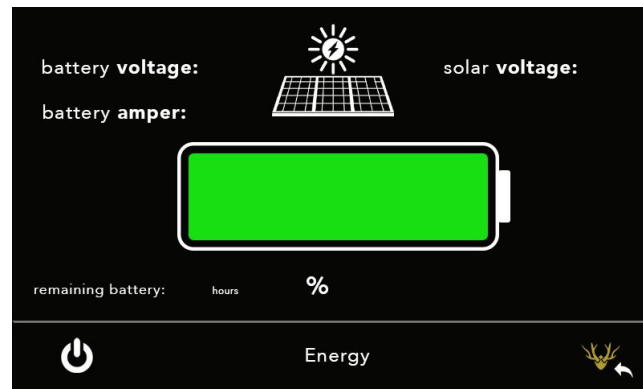
reaches 100%. When the dirty water tank reaches 100% full, the booster will shut down. In this case, in order to restart the booster, the dirty water tank must be properly emptied by opening the discharge valve.



## Electric Menu

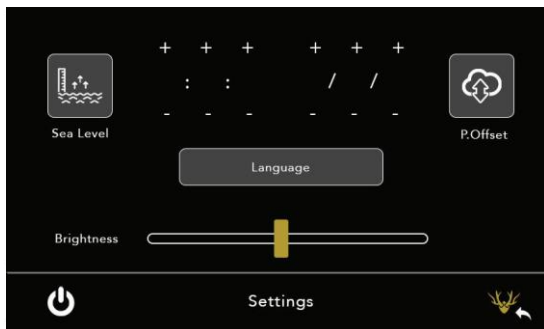
The Electric Control menu is accessed by pressing the button with the "Lightning" symbol on the main screen. The electricity page has a battery icon and a solar panel icon. The battery icon represents the battery on the caravan and shows the battery status as a percentage by coloring the inside of the battery. In addition to the electricity menu, the instantaneous voltage of the battery and the average current drawn per minute are shown. Values are updated on average every minute.

As the amount of current drawn per minute increases, the remaining time decreases, and as the current drawn decreases, the remaining time increases. The electrical page is shown in the image below.



## Settings Menu

The Electric control menu is accessed by pressing the button with the "Wheel" symbol on the main screen. In the settings menu, there are time and date information and a group of buttons to set this information. In order to set the time and date, there are two buttons for each number, plus and minus. It can be brought to the desired value by using the digital plus and minus buttons to be adjusted. The settings page is shown in the image below.

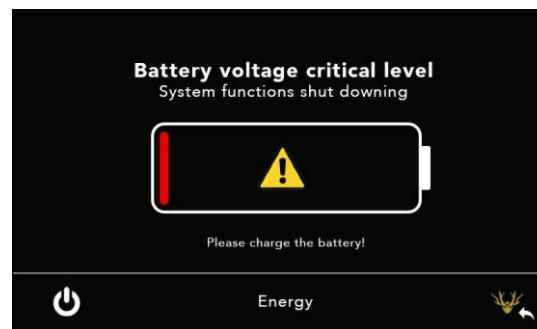


At the bottom of the screen there is a slider where the brightness of the screen can be adjusted. The screen brightness can be brought to the desired value by sliding the slider to the right and left.

The sensor on the Crawler Smart Panel measures the atmospheric pressure instantly. These values can be accessed from the Settings Menu.

### Low Voltage Mode and Warning

Crawler Smart Panel constantly monitors the battery status, performs various measurements and ensures long-lasting and efficient use of the battery. Low voltage protection is activated when the battery voltage drops below 10.5 voltage and the smart panel switches to battery protection mode. In this mode, the power of all systems connected to the smart panel is cut off and the warning in the image below appears on the screen. This warning stays on the screen for 10 seconds and then the smart panel turns itself off.



In this case, the battery should be charged as soon as possible. If the battery charge at the critical energy level drops further, the battery may be damaged completely by chemical degradation or its lifespan may be shortened. Devices connected to the caravan should not be used while there is this warning on the screen. If there is a working device, it should be turned off or the caravan should be connected to the charger using the charging cable. Otherwise, the product is out of warranty.

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## **Diesel Heater**

### **Heating Mode**

The air circulated by the fan motor is heated in the boiler and transmitted to the caravan. Working integrated with the diesel heater control unit, the heat sensors inside the caravan detect the temperature of the intake air. If the temperature of the intake air is below the temperature set in the control unit, the heater continues to operate.

### **Setting Mode**

In the setting mode, the fan motor speed and the fuel delivery capacity of the dosing pump depend on the heating capacity. In the meantime, the spark plug is deactivated.

### **Thermostat Range**

In case of approaching the temperature set on the operating switch, the heating capacity is reduced by the control unit. The speed of the fan motor and the fuel delivery capacity of the dosing pump are reduced in direct proportion. If the temperature set at a minimum heating capacity is reached, the fuel pumping process of the dosing pump is terminated and the combustion process ends with the heater blowing its last.

### **Note**

Throughout the thermostat range, the heater fan motor operates at idle speed, providing indoor air circulation. In addition, a change to be made on the operating switch is evaluated by the control unit and then activated.

## **What to do when smelling gas?**

Avoid sources of ignition, for example, extinguish all open flames, do not use any electrical switches, mobile phones or radios in the vehicle, do not start the engine of the vehicle, operate equipment, do not smoke. Open windows and doors. Evacuate all persons from the vehicle. Shut off gas cylinders or turn off gas supply from outside. The entire gas system must be checked and repaired by qualified personnel! Restart the gas system only after inspection and repair!

### **BATU535 Owner's Obligations**

The owner of the caravan is responsible for using the device in accordance with the rules.

Hoses should be checked regularly and replaced if worn.

When a new appliance is put into operation for the first time, smoke and odor may develop for a short time. When the appliance is put into operation after a particularly long standstill period a slight smoke and odor may occur due to dust or dirt.

It is recommended to run the appliance for a few minutes at the highest power level and to ensure that the room is well ventilated for self-cleaning. The air temperature should always be checked before adjusting the hot air outlets.

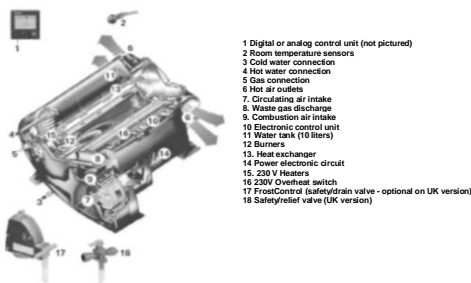
Hot water can be dangerous if misused and can cause burns. Check the water temperature before each shower or bath.

The flue gas double pipe should be checked regularly, especially after long trips, for damage and for the integrity of the connection, as well as the appliance and chimney connection. In order not to cause any damage due to splashing water while washing the vehicle, water should not be poured directly into the chimney.

## Truma Combi

**Liquid gas heater** The Truma Combi is a hot air heater with an integrated hot water tank (10 liters). The burner works with fan support. In this way, it is ensured that it works flawlessly while cruising. By activating the heating water operation with the heater, both the space can be heated and the water can be heated. If only hot water is needed, hot water operation can be activated. During hot water operation, the water in the tank is heated with the lowest burner stage. The burner turns off when the water temperature is reached. In heating operation, the device automatically selects the required power level depending on the operating mode and the temperature difference between the current room temperature set in the control unit and the current room temperature. When the boiler is full, the water is automatically heated together. The water temperature depends on the selected operating mode and the heating power output.

If the temperature at the FrostControl automatic safety/drain valve is about 3 degrees, the valve opens and the boiler empties.



## 2.1 Safety Warnings

For safe and proper use, carefully read and observe the instructions for use and save them for future use. Relevant applicable laws, directives and norms must be observed. Non-observance of the regulations in the operating and installation instructions can result in serious material damage or seriously injure the health of persons. The user of the device is solely responsible for the resulting damage. Only qualified and trained personnel (qualified personnel) may install, commission or repair the product, following the installation and operating instructions and the current accepted technical rules of the Truma product. Specialized personnel are those who can perform the necessary studies correctly and recognize possible hazards with the knowledge and experience they have about Truma products and related standards due to expert education and training.

## 2.2 What to do when smelling gas?

Avoid sources of ignition, for example, extinguish all open flames, do not use any electrical switches, mobile phones or radios in the vehicle, do not start the engine of the vehicle, operate equipment, do not smoke. Open windows and doors. Evacuate all persons from the vehicle. Shut off gas cylinders or turn off gas supply from outside. The entire gas system must be checked and repaired by qualified personnel! Restart the gas system only after inspection and repair!

## 2.4 Actions in Case of Failure

In case of abnormal noise or odor, turn off the gas supply and switch off the Truma Combi.

There is a risk of fire / explosion when attempting to operate a Combi that is damaged due to the vehicle being involved in an accident (e.g. drinks, flooding leaks). A damaged Truma Combi must be repaired or replaced by qualified personnel.

Have faults rectified immediately by qualified personnel.

After flashing (misfire), have the device and the exhaust gas system checked by a specialist.

## 2.5 Maintenance/Repair/Cleaning

Equipment repair and cleaning should only be done by qualified personnel. Maintenance, repair and cleaning by children is prohibited.

In the following cases, the warranty right and the right to claim liability are eliminated.

Changes made on the device (including accessories), changes made in the flue gas installation and chimney, use of spare parts and accessories other than Truma original parts.

Failure to comply with the assembly and operating instructions.

Rinse a new Truma Combi and all hot/cold water hoses with potable water before use, whether it is new or not used for a long time.

## 2.6 Heating Operation

In heating operation, the device automatically selects the required power level depending on the temperature difference between the current room temperature set in the control unit and the current room temperature. When the boiler is full, the water is automatically heated together. The water temperature depends on the selected operating mode and the heating power output.

It can be used in 3 different types of energy specified in use.

During gas operation, the device automatically selects the required power level.

For electrical operation, 900 W (3.9 A) or 1800 W (7.8 A) can be manually preselected for power, depending on the campsite protection fuse. When the power requirement is higher (e.g. when heating or the outside temperature is very low), gas or mixed operation should be selected to ensure sufficient heating power.

230 V electrical operation is preferred when the power demand is low (e.g. to maintain room temperature) during mixed operation. The gas burner only switches on at high power demand, ie it turns off before heating.

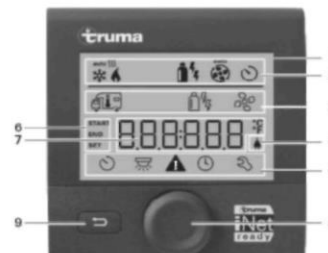
## 2.7 Hot Water Operation (Only when the boiler is full)

Gas operation or electric operation 230 V is used for the hot water pipes. The water temperature is set as ECO for 40 °C and HOT for 60 °C. During gas operation, the water in the chamber is heated with the lowest burner stage. The burner turns off when the water temperature is reached.

For electrical operation, the power can be manually selected as 900 W (3.9 A) or 1800 W (7.8 A) according to the protection fuse in the campsite. Mixed operation is not possible. In this setting, the device automatically selects electrical operation. If the voltage supply to 230 V is limited or interrupted, the heater automatically switches to gas operation.

## 2.8 Operating Instructions

Before commissioning, carefully read the safety warnings and operating instructions and strictly follow the instructions!



### 2.8.1 Display and Control Elements Truma Plus VarioHeat

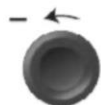
- 1= Indicator
- 2= Status line
- 3= Menu line (top)
- 4= Menu line (bottom)
- 5= 230 V mains voltage display (current used in the country)
- 6= Timer display
- 7= Settings / Values
- 8= Rotary/ push button
- 9= Back key

With the rotary push button indicated with number 8, you can navigate between the menus on lines 3 and 4, make selections and make various settings. The button indicated with the number 9 can be used to return from any menu. Target values and parameters with the rotary push-button indicated by the number 8 can be selected, changed and saved by pressing the button.

The selected menu items flash.

Pressing button 8 for a long time enables the main control function to be turned on and off.





#### Counter-clockwise rotation

- The menu moves from right to left.
- Values are decremented (-).



#### Touching

- A selected value is inherited (saved).
- Selection of menu item, change to setting level.

### Back button

When the back button 9 is pressed, it returns from a menu and the settings made in that menu are cancelled. In other words, previously valid values are preserved.

### First commissioning

A few seconds after the Truma CP plus VarioHeat control unit is connected to the power supply, a start screen appears.



The time information and the set room temperature are displayed alternately on the screen.

### Turning On / Off

Touch button 8 to open. The previously set values/operating parameters are reactivated after the device is switched on.

Press button 8 for more than 4 seconds to turn it off. Shutdown of the Truma CP plus VarioHeat control unit may be delayed by several minutes due to the internal subsequent operation of the heating or air conditioning system ("OFF" is displayed during this time period).

### Activating APP mode

Press button 8 for about 2 seconds until "APP" appears on the screen. Let go of the rotary/push button.

The previously set values are saved.

## Turning off APP mode

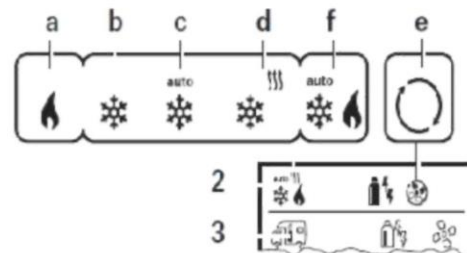
If new values are transferred via the Truma App or the infrared remote control of the air conditioning system, the APP mode is switched off. If the Truma CP plus VarioHeat control unit is activated by pressing the rotary / push button. The previously set values are taken over for the new operation, the APP mode is turned off.

## Changing the room temperature

Select the room temperature setting icon in the menu line number 3 with the button number 8.



Press button 8 to switch to the setting level.  
Select between heating (HEATER), air conditioning system (AC) with the rotary / push button depending on the device connected.  
Click on button 8 to confirm the selection.  
Bring the button number 8 to the desired temperature by turning it to the right and left.  
Click on button 8 to confirm the value.



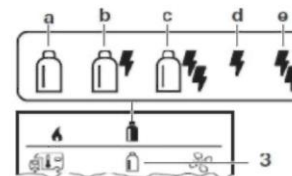
**Heater** Adjustable temperature range 5 - 30 °C (in 1 °C steps) a= Heater on  
- Symbol is on, symbol flashes if the room temperature has not been reached yet. It is essential that the temperature range is selected below 5 °C (OFF) in order to turn off the heater.

## Choosing the energy type

Select the energy setting icon on the 3rd menu line with the 8 numbered button.



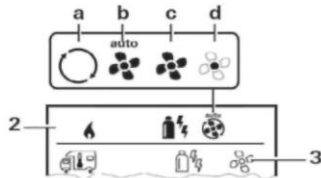
Press button 8 to switch to the setting level.  
Bring the button number 8 to the desired setting level by turning it to the right and left.  
Click on button 8 to confirm the selection.



a = GAS = Truma VarioHeat heats in gas operation.  
b=MIX 1=Truma VarioHeat heats in gas operation. Truma E-Kit heats with 900 W.  
c=MIX 2=Truma VarioHeat heats in gas operation. The Truma E-Kit heats with a maximum of 1800 W.  
d= EL 1= Truma E-Kit heats with 900 W.  
e= EL 2= Truma E-Kit heats with a maximum of 1800 W.

### Selecting the fan stage

Select the fan icon on the 3rd menu line with the 8 numbered button.  
Press button 8 to switch to the setting level.  
Bring the button number 8 to the desired setting level by turning it to the right and left. Click on button 8 to confirm the selection.



- = OFF= Fan Off (Can only be selected if there is no device running.)

a= VENT1= Circulated air, if no device is running. The number of cycles can be selected in 10 steps.

b= AUTO= Automatic adjustment of the fan is adjusted depending on the heating power / optimized to the current heating demand.

c= BOOST2= Fast room heating Can be used if the difference between the selected and current room temperature is greater than 10 °C. Not available in electronic operation (EL1, EL2).

d= NIGHT= Very quiet fan operation. The heater only works at partial load, it may not reach the set room temperature if necessary (depending on vehicle size and outside temperature). Only available in gas operation (GAS).

May cause higher engine wear depending on frequency of use. A quick step change (on the stand-by display) is possible via button 8.

Electric current, noise level and engine wear are higher in the "BOOST" fan stage.

When Truma Combi is switched on, the fan level selected in the previous heating operation is displayed in the 2nd status line of the room temperature setting. The default setting is "AUTO".

## 2.8.2 Setting the timer

### Danger of poisoning by exhaust gases

The activated timer also starts the heater when the vehicle is parked. Exhaust gas from the heater can cause poisoning in closed spaces (e.g. garage, workshop).

### If the vehicle is parked indoors:

Cut off the fuel supply (gas) to the heater.

Switch off the Truma CP plus VarioHeat control unit (see "On / Off") to prevent the heater from being reactivated by the Truma App or the timer. Only use the timer of the Truma CP plus VarioHeat control unit to precisely set the start and end time of the desired range when operating air conditioning systems.

If the timer is ON it is necessary to deactivate the timer first. If the timer is not active (OFF), it is shown in the menu.

Select the timer setting symbol in the 4th menu line with the 8 button.

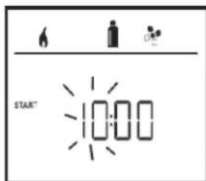
Switch to the setting level by touching it.



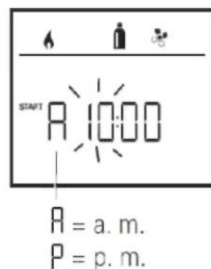
## Entering the start time

Set the hour and then the minute with the number 8 button.

24 hour mode



12 hour mode



The hour is flashing when the screen is first turned on. Swipe left and right using button 8 and set the clock to the desired value.

When the time reaches the desired value, confirm the time by clicking on the 8 button.

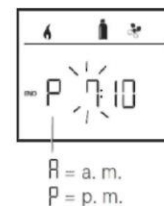
After confirming the time, the minute segment will flash.

Set the minute value to the desired value by using the button number 8.

24 hour mode



12 hour mode



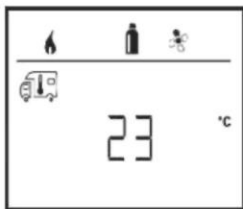
If the start / end time has passed at the time of entry, the operating parameters will only be valid when the next start / end time is reached. Until then, the operating parameters set apart from the timer are valid.

## Setting the room temperature

Depending on the device connected, use button 8 to choose between heating (HEATER), air conditioning system (AC) or automatic air conditioning (AUTO) (see fig. "Changing the room temperature" on page 18). Click on button 8 to confirm the selection.

Select the room temperature you want with the button 8.

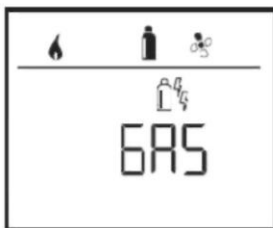
Click on button 8 to confirm the value.



Select energy type (HEATER only)

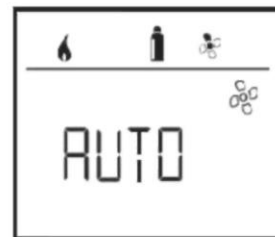
For detailed information, see "Selecting the energy type", page 19, select the energy type you want with the button number 8.

Click on button 8 to confirm the selection.



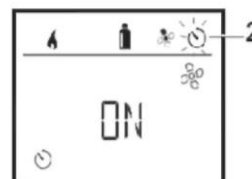
## Selecting the fan stage

Select the desired fan level with the 8 button.  
Click on button 8 to confirm the selection.



## Activating the timer (ON)

Select the desired fan level with the 8 button.  
Click on button 8 to confirm the selection.



The timer remains active (OFF) for days until deactivated.

If the timer is programmed and active, the timer symbol will flash.

### Deactivating the timer (OFF)

Press button 8 to switch to setting level.  
Deactivate the timer with button 8. (OFF)  
Click on button 8 to confirm the selection.



### 2.8.3 Service menu

It is located on the right side of menu number 4.  
The menu is selected by clicking the 8 button.  
You can navigate between the settings shown below in the menu by using the 8 button.  
When the desired setting is reached, it can be selected by clicking the 8 button.  
While in the selected setting, the selected setting is brought to the desired value by sliding it to the right and left with the 8 button.  
- You can go back with the button number 9.

### Calibration of the room temperature sensor of the heater (OFFSET)

The room temperature sensor of the connected heater can be adapted to the installation situation of the sensor. Adjustment can be made in 0.5 °C steps in the range of, 5 °C to -5 °C.

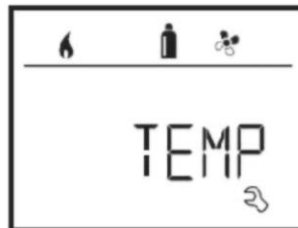
Example:

Set room temperature 23 °C OFFSET= -1 °C

Nominal value for heater = 22 °C



Standard setting: 0 °C (Celsius). °C/°F temperature display  
Selection of °C (Celsius) or °F (Fahrenheit) temperature display.



## Changing the backlight

Changing the backlighting of the Truma CP plus VarioHeat control unit in 10 steps.



## 12/ 24 hour mode

Display of time in 12 hour (a.m., p.m.) / 24 hour modes.



Standard setting: 24 hour mode.

## Changing the language

Selection of the desired language (German, English, French, Italian).



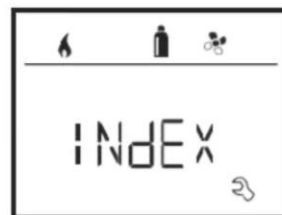
Standard setting: English

## Displaying the version number

Display the version number of the heater, air conditioning system, Truma iNet Box and Truma CP plus VarioHeat control unit.

Example:

H 1.20.01 - H= Device; 1.20.01= Version number





## Device

P=Truma CP plus VarioHeat control unit  
 L=Truma CP plus VarioHeat CI-Bus control unit  
 A= Air conditioning system  
 H= Truma VarioHeat  
 T= Truma iNet Box  
 E= Truma E-Kit

## Standard setting (RESET)

The reset function resets the Truma CP plus VarioHeat control unit to factory settings. All settings are deleted. Newly connected devices are detected and stored in the control unit.

Turn on the voltage supply.

12 V= for Truma CP plus VarioHeat, Truma VarioHeat and Truma E-Kit control unit and for 230 V air conditioning systems and Truma E-Kit.

## Resetting

Select "RESET" with the 8 button.

Click on button number 8.

"PR SET" appears on the screen.

Click on button 8 to confirm.

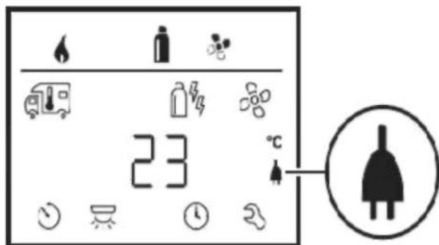


After confirming, the Truma CP plus VarioHeat control unit is started. During this process, "INIT .." is displayed on the screen.

## Special indicators

### Mains voltage 230 V available

The symbol indicates that the connected heating and/or air conditioning system has a mains voltage of 230 V (the current used in the country).



### Infrared (ER) remote control (Air conditioning system)

When a command is received from the infrared remote control of the air conditioning system, "ER" is displayed on the screen.

Truma App with iNet Box

When a command is received from a mobile device with the Truma APP application on it, "APP" is displayed on the screen.

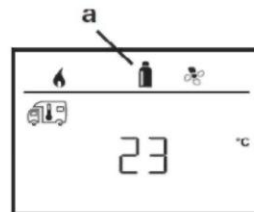
### External control unit (CI-BUS)

When a command is received from an external control unit with CI-BUS, "CI" is displayed on the screen.

The Truma CP plus VarioHeat CI-BUS control unit is only a special model fitted at the factory.

### Energy type indicator

Energy type in heating operation e.g. gas (a) is displayed (see "Selecting the energy type" on page 19)



### 2.8.4 Warning / Fault

#### Warning

If the operating parameter is found outside of my target range, the Truma CP plus VarioHeat control unit immediately switches to the **"Warning/Fault"** menu level and the fault code of the fault is displayed. With the help of troubleshooting instructions, the cause of the warning in question can be determined and eliminated. Error and malfunction codes are shown at the end of the Truma combi document under the topic Truma CP plus VarioHeat Error and malfunction codes.

## Returning to the setting level

Click button number 8 or press backspace. If the screen is in Stand-by mode, tapping activates the backlight and the warning can be confirmed by clicking the screen again.

The device concerned remains in operation, if possible. If the operating parameter is again within the target range, the symbol turns off automatically.



## Reading the warning error code



The error code can be called again after the warning is acknowledged:

- Select the number one symbol seen in the picture with the number 8 button.
- Click on the symbol with the number 8 button.

The error code of the alert will be displayed.

W= Warning 42= Error code H= Device

H= Truma VarioHeat

A= Air conditioning system

E= Truma E-Kit

## Fault

In the event of a fault, the Truma CP plus VarioHeat control unit immediately switches to the **"Warning / Fault"** menu level and the fault code of the fault is displayed: With the help of fault finding instructions, the said fault can be detected and rectified. Error and malfunction codes are shown at the end of the Truma combi document under the topic Truma CP plus VarioHeat Error and malfunction codes.



E= Error 12= Error code H= Device

H= Truma VarioHeat

A= Air conditioning system

E= Truma E-Kit

## Cause fixed / Back to setting level

Click on button number 8. If the screen is in standby mode, tapping activates the backlight and the fault must be confirmed by tapping the screen again. If necessary, the relevant device will be restarted automatically.

This process may take several minutes due to the internal after-work of the connected devices.

If the cause of the fault is not remedied, the fault will reappear and the control unit will switch back to the **"Warning / Fault"** menu level.

## Cause not fixed / Back to setting level

Press the back button.

In this case, the fault in the Truma CP plus VarioHeat control unit is not acknowledged and the warning symbol remains. The device remains in the fault state. Other connected devices can be controlled.

## Reading the fault error code

After the fault has been acknowledged, the fault code can be recalled:

- Select the warning symbol with the 8 button.
- Click on button 8 and the current state of the fault is read.

## Maintenance

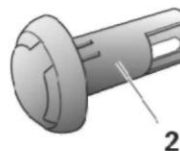
The Truma CP plus VarioHeat control unit is maintenance-free. To clean the front, use a non-scratching cloth dampened with water. If it cannot be cleaned in this way, use a neutral soap solution.

## Disposal of waste

The device must be disposed of in accordance with the administrative regulations applicable in the country of use. National legislation (e.g. Scrap Vehicles Regulation in Germany) must be observed.

## 2.9 Room temperature sensors

To measure the room temperature, the vehicle is equipped with an external room temperature sensor. The location of the sensor is determined by the vehicle manufacturer according to the vehicle type.

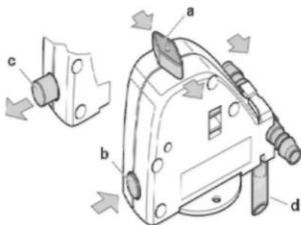


The temperature setting in the control unit depends on the individual heat requirement and the vehicle model and must be made individually.

## 2.10 Safety / relief valve

FrostControl

(Safety / drain valve with integrated anti-freeze / optional in UK version)  
FrostControl is a non-electric safety / drain valve. When there is a danger of freezing, the boiler automatically empties the water in it via a drain port. When high pressure occurs in the system, pressure balancing is performed intermittently via the safety valve.



a= "operating" position of the rotary switch

b= Push button "off" position

c= Push button "dump" position

d= Drain opening (outward from the vehicle floor)

Opening the safety/relief valve

Turn the rotary switch 180° until it engages, the push button pops out (position

c.) The water in the boiler flows out via the discharge opening (d).

To ensure a safe flow of water, dirt accumulation (snowy, mud, ice, brushwood, etc.) must be prevented at the discharge opening (d) of the FrostControl! No warranty can be claimed for damage caused by freezing!

## Closing the safety/drain valve

Make sure that the rotary switch is in the "operation" (position a) position, parallel to the water supply and inside.

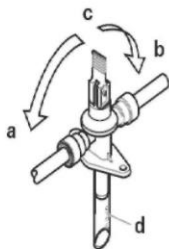
Close the safety/drain valve by pressing the push button. The push button (b) should go in in the "off" position. However, when the temperature at the safety/drain valve is above approx. 7 °C, the safety/drain valve can be closed manually using the push button (position b) and the boiler can be filled. Truma supplies a heating element (item no. 70070- 01) which is fitted inside the FrostControl and fixed with a safety plate as an accessory. This heating element heats the FrostControl to approx. 10 °C when the Truma Combi is on. The boiler can thus be filled after a short time, regardless of the temperature at the installation site.

## Automatically opening the safety/relief valve

The safety/drain valve opens automatically when the temperature at the safety/relief valve is below approx. 3 °C. Push button pops out (position c). The water in the boiler flows out via the discharge opening (d).

### Safety / relief valve

The safety/relief valve automatically compensates for pressure when high pressure builds up in the system. In this case, the water is discharged outwards intermittently via the discharge opening. This safety/drain valve does not protect the water tank from damage by freezing.



- a= Lever in "Operating - off" position
- b= Lever in "Operating - off" position
- c= Lever in "Drain" position
- d= Drain opening (outward from the vehicle floor)

### Opening the safety/relief valve

Move the lever vertically to the (c) position. The water in the boiler flows out via the discharge opening (d). To ensure a safe flow of water, the accumulation of dirt (snowy, mud, ice, brushwood, etc.) must be prevented at the discharge port (d) of the safety / drain valve! No warranty can be claimed for damage caused by freezing!

### Closing the safety/drain valve

Move the lever horizontally to the (a) or (b) position.

## 2.11 Filling the boiler

Make sure that the safety / drain valve is closed (see section "Closing the safety / drain valve"). If the temperature in the FrostControl is below approx. 7 °C, first switch on the heater to warm up the installation space and the FrostControl. After a few minutes, when the temperature in the, FrostControl rises above 7 °C, the safety / drain valve can be closed.

Turn on the power to the water pump (main switch or pump switch).

Turn on the hot water taps in the kitchen and bathroom (set the water regulator or the single lever faucet to the **"hot"** position). Keep the faucets open until the air in the boiler is completely emptied and the water flows uninterruptedly.

Even if only the cold water installation will be operated without a boiler, the boiler will be filled with water. In order to prevent damage due to freezing, the boiler should be emptied via the safety / drain valve even if it is not used. In case of frost, the filling process may not take place because the water is frozen. The boiler can be defrosted by short-term operation (maximum 2 minutes) Frozen pipes can be thawed by heating the interior. When connecting to a central water supply (country or city connection), a pressure reducer must be used to prevent pressure above 2.8 bar in the boiler.

## 2.12 Emptying the boiler

Attention: If the motorhome / caravan will not be used during the frosty period, the boiler must be emptied!

Turn off the power to the water pump (main switch or pump switch).

Turn on the hot water taps in the kitchen and bathroom.

Place a suitable container (10 liters) under the drain port (d) of the safety/drain valve to control the flowing water.

Open the safety / drain valve (see section "Opening the safety / drain valve").

The boiler is emptied directly to the outside via the safety/drain valve. Check whether the water in the boiler (10 liters) is completely drained into the container via the safety / drain valve.

**No warranty can be claimed for damage caused by freezing!**

## 2.13 Commissioning

### Combi E (to be written Combi D)

(in conjunction with the CP plus control unit) The interior can be heated with or without water in gas, electric and mixed operation, depending on the operating position.

Check whether the protection fuse of the electricity supply in the campsite is sufficient for the 900 W (3.9 A) or 1800 W (7.8 A) power set via the energy selection switch. The cable reel must be fully opened to prevent the power supply cable from overheating.

Check if the chimney is unblocked. Be sure to remove everything that will cover it, such as a lid.  
Open the gas cylinder and the quick shut-off valve on the gas supply pipe.  
If necessary, fill the boiler with water (**see section "Filling the boiler"**).  
Turn on the device with the control unit.

## 2.14 Turning off

Turn off the heater with the control unit.

The shutdown process may be delayed by several minutes due to the internal after-runs of the heater.

If the device will not be used for a long time, close the quick shut-off valve on the gas supply pipe and the gas cylinder.

In cases where there is a risk of freezing, always drain the water!

## 2.15 Maintenance

Maintenance, repair and cleaning by children is prohibited. Work to be done by specialists. Have the device checked by specialist for contamination and have it cleaned if necessary.

## Efforts to be done by the user

Clean the installation site at least once a year.

The safety/drain valve must be operated regularly (at least 2 times a year) to remove limescale deposits and ensure that it is not blocked.

## Warnings for cleaning, build-up dirt and maintenance

We recommend that you use the appropriate maintenance products available in the market for boiler cleaning, cleaning the dirt accumulated in the boiler and maintenance of the boiler. Chlorinated products should not be used.

The chemical method for combating microorganisms in the device can be supported by regularly heating the water in the boiler to 70 °C.

Only in conjunction with the Combi E, CP Plus control unit - select the "gas operation" operating mode on the CP plus control unit.

Set the water temperature to 60 °C.

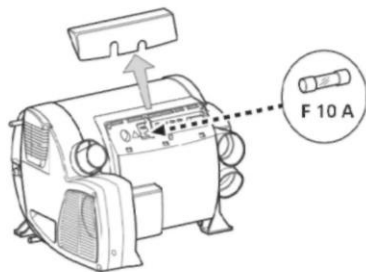
Turn on the device.



The burner switches off when the water in the boiler reaches 60 °C. The device must remain in operation for at least 30 minutes and hot water should not be used. The residual heat in the heat exchanger heats the water up to 70 °C.

## 2.16 Fuses

Electrostatic charge can cause damage to the electronic system. Equalize the potential before touching the electronic system!



### Fuse 230 V (Combi E)

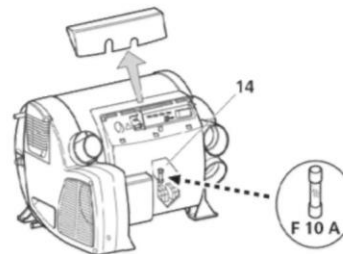
**CAUTION: Danger to life due to electric shock when replacing the fuse or power supply lines.**

Fuse and mains connection lines must only be replaced by a qualified person!

Before opening the electronic circuit cover, the device must be disconnected from the mains.

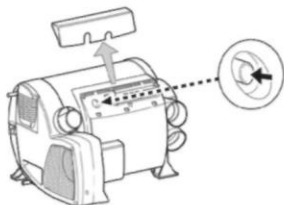
The fuse is located in the power electronic circuit (14) under the electronic circuit cover.

This sensitive fuse should only be replaced with a fuse of the same construction: 10A, fast, breaking capacity "H".



### Overheat protection 230 V (Combi E)

The 230 V heating operation has a mechanical overheating switch. For example, if the 12 V voltage supply is interrupted during operation or during the following operation, temperatures in the device may cause the overheating protection to trip.



Resetting the overheating protection Wait for the heater to cool down, remove the connector cover and press the Reset button.

## 2.17 Troubleshooting instruction (Water supply)

Error	Cause / Solution method
Extremely Long Warm-up time	The water tank is chalky. / Descale the water system. (See the Maintenance section.)
Water is flowing. Boiler cannot be filled.	The safety/drain valve is open. / Close the safety / drain valve.
The boiler cannot be drained even though the safety/drain valve is open.	The discharge port of the safety / relief valve is closed. / Check the hole for dirt (snowy, mud, ice, brushwood, etc.) and clean if necessary.

Water is flowing / dripping from the discharge port of the safety / drain valve.	The water pressure is too high. / Check the pump pressure (maximum 2.8 bar). When connecting to a central water supply (country or city connection), a pressure reducer must be used to prevent pressure above 2.8 bar in the boiler.
FrostControl is turned on after the heater is turned off.	At temperatures below approx. 3 °C, FrostControl switches on automatically / Turn on the heating / If the heating operation is not activated, FrostControl can only be switched off at temperatures above approx. 7 °C / Use the heating element for FrostControl.
Unable to close FrostControl.	With FrostControl the temperature is below approx. 7 °C / Turn on the heating / If the heating mode is not activated, FrostControl can only be switched off at temperatures above approx. 7 °C. The rotary switch is not in the "Operation" position. / Turn the FrostControl rotary switch to "Operation" and then press the rocker switch until it engages.

---

## 2.18 Cases out of warranty

Warranty claims cannot be claimed in the following cases:

Using the device incorrectly, improperly, incorrectly, carelessly or contrary to its intended use.

Improper installation, assembly or commissioning contrary to the information described in the operating and assembly instructions.

Incorrect operation or use of the device contrary to the information described in the operating and assembly instructions, especially non-compliance with the maintenance and cleaning instructions and ignoring the warnings.

Installation, repair or necessary interventions are not performed by authorized business partners.

Consumables, wear parts and natural wear.

Equipping the device with spare and complementary parts or accessories that are not original parts manufactured by the manufacturer or not approved by the manufacturer. This is especially true in the device with a control system operating in the network if the control units and software are not approved by Truma or the Truma control unit (e.g. Truma CP plus, Truma iNet Box) is not used only for Truma devices or for Truma approved devices.

Foreign substances (e.g. oil, softeners in gas), damage caused by chemical or electrochemical effects in water, or contact with unsuitable substances (e.g. chemical products, flammable substances, unsuitable cleaning agents).

Damages caused by abnormal environment or operating conditions unfamiliar to the subject.

Damages caused by force majeure or natural disasters and other effects for which Truma cannot be held responsible.

Damages caused by incorrect transportation.

Changes made by the end customer or third parties to the device, especially to the waste gas installation and chimney, including spare and complementary parts or accessories and their installation.

## 2.19 Truma CP plus VarioHeat Error and fault codes Warnings

The crane is a very powerful machine. Be very careful and heed all warnings.

## Crane

The crane is rated at the first layer of wire/synthetic rope on the drum for intermittent periodic duty.

A minimum of (5) steel wire rope wraps and ten (10) synthetic rope wraps around the drum are required to support the rated load.

Keep away from crane, rope, hook and dovetail during operation.

Wire/synthetic rope can break without warning. Always keep a safe distance from the crane and rope when under load. Failure to adequately align, support, or attach the crane to a suitable mounting base may result in a loss of performance efficiency or damage to the crane, wire synthetic rope, and mounting conduit.

## Things to do before using the crane

Connect the remote control.  
Disengage the clutch function.  
Pull the wire/synthetic rope to the attachment point.  
Activate the clutch function.

## Things to do before uninstalling:

Check the wire / synthetic rope.  
Lay a rescue damper on the rope near the hook end.  
Set the anchor point.  
Tune the vehicle engine.  
Install the clamp and hook.  
Begin lifting with crane.  
Make sure the connection is secure.  
Disconnect the remote control.

## General rules

Check safety and environmental conditions before and during use.

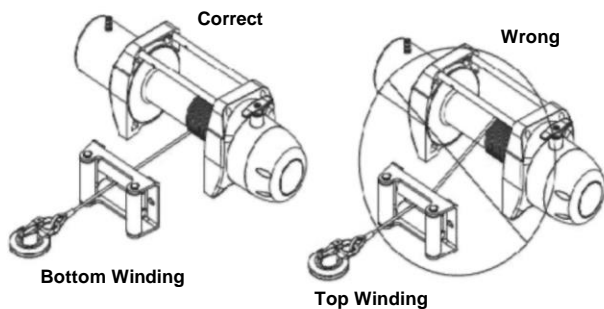
Use only the correct grade of wire/synthetic rope in construction and strength.  
Check for damage and/or defects before use.

Do not use an unsuitable hook and clasp block for the rope.

Do not use the crane as a hoist or a crane for lifting and transporting people.

Always wear leather gloves when handling wire/synthetic rope.

The rope must be wound according to the drum rotation label or refer to the instruction manual.



## **Mover**

### **Safety Instructions**

It can only be installed by competent and trained persons (experts).

This appliance can be used by children over 8 years old. It can be used by disabled or inexperienced persons only if supervised or by persons who do not take the risks and the safe use of the device. Children should not be allowed to play with the appliance.

Before using the Mover XT / XT2 outdoors for the first time, demo the remote control and the Mover XT /XT2 to become familiar with the functions of the following.

Before each use of the Mover XT / XT2, inspect the tires and remove any sharp stones and similar objects between the drive rollers and the wheel.

The side slide switch (ON/OFF) on the remote control also functions as an "Emergency Stop Switch". In any emergency, immediately turn the side slide switch to the "OFF" position, (abnormalities, uncontrolled behavior of the manoeuvre)

Nobody should be in the caravan during the operation.

No one (especially children) should be inside the turning and range of motion (manoeuvring range).

When commissioning, decommissioning and operating the Mover XT / XT2, care must be taken to ensure that no hair, clothing or moving parts of the body are between rotating parts.

During maneuvering, the distance between the radio remote control and the middle of the caravan should not exceed 10 m.

Engage the parking brake in the event of a malfunction.

To avoid tipping the caravan, the drawbar should point down (downhill) when maneuvering on slopes.

After manoeuvring, always apply the parking brake first. Separate the drive rollers from the tires and block the wheels (especially on slopes!). The Mover XT/ XT2 is not suitable for use as a parking brake for a parked caravan.

Always protect the remote control from unauthorized access (especially from children).

Never tow the caravan with the drive rollers installed as this can damage the tires, towing vehicle and drive assemblies.

All wheels and tire on the caravan must be the same size and type.

When using a jack, the Mover XT /XT2 should not be used as a jacking point as it may damage the drive assembly.

Turn off the mover button after maneuvering, otherwise the battery will be discharged.

Inspect the system for damage prior to use. If the system is damaged, it should not be used.

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## Victron Energy Battery

- Gel battery is a system that stores energy and is used when required.
- The gel battery has a very wide discharge feature. It does not cause deterioration after charging. It is shock resistant.
- The charger to be used for charging the gel battery is very important. The temperature and humidity of the environment are very important while the charger allows the battery to be charged.
- The charger must be suitable for the gel battery. A bad or unsuitable charger can cause the battery to fail.
- Victron Energy Battery is suitable for high current discharge and charging operations due to its very low internal resistance.
- Battery Gel offers the best deep cycle durability and provides a longer service life. The use of completely pure materials and lead calcium grids reduces the tendency of the GEL to self-discharge, delaying their discharge even when not charged for a long time.

## Truma Aventa Compact Plus Ceiling Air Conditioner

- The Aventa Compact Plus roof-mounted air conditioning system impresses with maximum power in minimum space. Although the housing is compact, it has 2,200 watts of cooling power.

- The Aventa Compact Plus is suitable for larger caravans if you want to powerfully cool several areas at the same time. As it cools, it also absorbs moisture from the air, which contributes to a pleasant room climate.

- Compressor noise has been minimized, making the Aventa Compact and one of the quietest and lightest rooftop air conditioning systems on the market.

- The individual adjustment options of the Small Air diffuser ensure that the cold air is distributed exactly where you want it.

- The Small Air diffuser is designed to be so flat that the passage height is hardly affected.

- Use the supplied remote control or the CP plus digital control unit to operate the air conditioning system. Aventa Compact Plus can also be integrated into the INet system and controlled via an app.

- 2200 W compact cooling power.
- Fits on car roof even with limited space.
- It works very quietly thanks to the reduced compressor noise.

## Technical Specifications

- Power source: 220 V
- Cooling (BTU): 7500
- Starting Current: 28 A (150ms)
- Cooling Power: 2200 W
- Maximum Slope During Operation: 8%
- Current Consumption: 4.4 A
- Application Range: +16° C to +40° C
- Air Flow Max.: 400 m<sup>3</sup>/s
- Weight: 29.5 kg (without mounting material)
- Lower Unit Dimensions: 496\*46\*556mm (air diffuser small)
- External Dimensions: 560 \* 265 \* 785mm
- Dimensions of Roof Cutting: (H\*W) 380 \* 350mm / 400 \* 400mm



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## Schmid Solar Panel 325w & Regulator

- The electricity produced by the solar panel installed on the roof of the caravan is stored in the batteries via the energy charge control unit.
- Then, the energy in the batteries is converted to 220 volts by means of an inverter, so that the devices you want to use in the caravan work.
- The power output of the solar panel is within positive (+) tolerance.
- It is automatically classified according to the power output values.
- The Solar Panel is resistant to salt water and ammonia. It can be used in corrosive environments in harsh natural conditions.
- As it is an environmentally friendly system, high efficiency is ensured.

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## Thule Electric Step

- In order to use the electric step, press and hold the button on the bottom left of the entrance to the down direction.
- Press and hold upwards to turn it off.
- It makes it easy to use at night thanks to the rounded corners that glow in the dark.
- The steps are made of corrugated anodized aluminium.
- Inside the caravan there is a switch for the connection of a warning lamp. As standard, the step makes it impossible to get out.
- For maximum visibility to be clearly visible in all conditions, each motorized slide step can be equipped with the optional Thule LED Kit for additional lighting.

## Technical Specifications

**Body:** Aluminium

**Suspension:** Independent Swing System Suspension, 4 Shock Absorbers

**Insulation:** Ceramic Based Internal Heat Insulation

**Wheel Dimensions:** 285/75/R16, Rim: 6x139.7

Chassis: Galvanized Coating

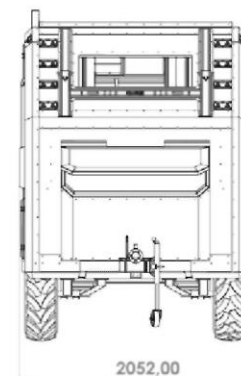
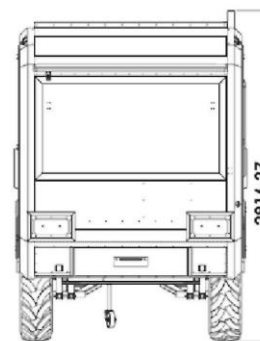
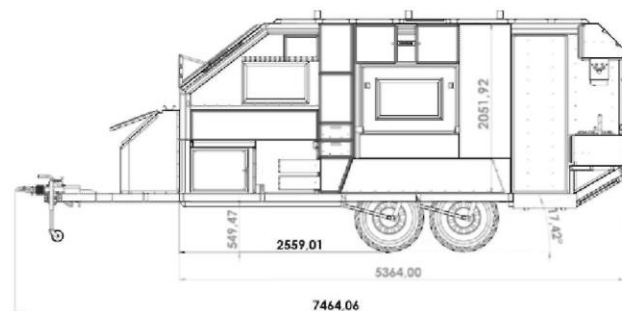
**Coupling:** With Brake and Reverse Maneuver

**Length:** 7,350 mm

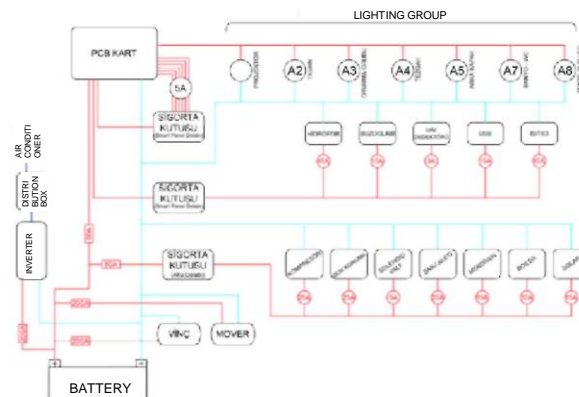
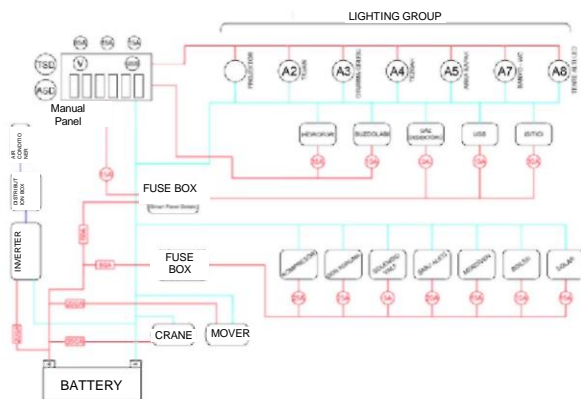
**Width:** 2,050 mm

**Height:** 2,910 mm

**Weight:** 1,730 kg (with Standard Equipment)



## Electric scheme



## Care Instructions

### Cleaning

The caravan should be washed as soon as it gets dirty, especially in winter months when salt and moisture on the roads can easily start to rust.

The caravan should be washed as follows.

Wash the entire caravan with plenty of water until the dirt is softened.

Do not spray the water directly on the locks.

Wash the vehicle with a sponge using plenty of water with or without detergent.

If the vehicle is very dirty, you can wash the vehicle first with a cold degreasing agent. (However, you should only perform this operation in a place with a waste water separation feature. Take care not to expose cold oil directly to the sun and the paint to not get hot from the sun or the engine is still not hot. Sunlight and heat can cause permanent damage. Consult CRAWLER about this.)

### Suitable detergent

Clean bird droppings from the paint as soon as possible. Chemical substances in bird droppings can affect and fade the paint in a very short time. It is not possible to restore the faded paint by polishing.

### Automatic Washing

The simplest and quickest way to wash your caravan is to take it to an automated washing facility. However, keep in mind that washing in an automatic washing facility cannot replace a thorough hand washing.

The brushes of the automatic washing plant may not reach all parts of the caravan effectively. We recommend hand washing the caravan in the first months.



After washing the caravan: Always check the brakes so that moisture and corrosion do not affect or damage the brake pads!

Cleaning the floor

Removing stains on fabric upholstery

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For soiled fabric upholstery, it is recommended to use a special cleaning agent, available from your CRAWLER dealer. Other chemicals may damage the fire resistance of the flooring.

Never try to remove the stain by scraping or rubbing.

Never use strong stain remover.

Wash with mild soap and warm water.

## **Repairing paint damage**

### **Paint**

The electrostatic paint on the caravan is a scratch resistant paint. In order to repair the scratches that will occur over time on the caravan, a retouching process is applied with paint with the same color code.

Below are the most common types of paint damage you can repair:

Minor stone, branch nicks and scratches, damages around outer shell

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## Warranty Text

1. The warranty period starts from the caravan delivery date.

The outer body warranty is five (5) years and the component warranty is two (2) years.

Accessories and other options are under the manufacturer's warranty.

2. The entire caravan, including all its parts, is under our company's warranty.

3. Failures caused by the use of the caravan contrary to the terms in the user manual are not covered by the warranty.

4. You can apply to CRAWLER for any problems that may arise regarding the Warranty Certificate.

5. If the caravan fails within the warranty period, the time spent in repair is added to the warranty period. The caravan's repair time is maximum 20 working days. This period starts on the delivery date of the vehicle to the service station or, in the absence of a service station, to one of the authorized dealer, dealer, agency, representative, importer or manufacturer of the vehicle.

6. Equipment and options used in the caravan are covered by the manufacturer's or distributor's warranty.

7. In case of intervention to or modification of the vehicle and the equipment inside the vehicle other than the CRAWLER service, the related and affected equipment will not be covered by the warranty.

## CRAWLER

### WARRANTY FORM

Company: Crawler CARAVANS  
HQ Address: Holzheimer Str. 12, 73037 Göppingen, Germany  
Phone: **+49 71613047623**  
E-mail: info@crawlercaravans.com

### VENDOR'S;

**Title:**  
**Address:**  
**Phone:**  
**Invoice Date and No:**  
**Sign (Seal):**

### VEHICLE'S;

**Model:** BATU 535  
**Banderole and Serial No:**  
**Delivery Date and Place:**  
**Warranty Period:**  
**Maximum Repair Time:**  
20 Work Days

### VEHICLE OWNER'S;

**Name:**  
**Address:**  
**Phone:**  
**E-mail:**  
**Sign:**