



USER GUIDE

Atlas 2020 model

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1. SAFETY INSTRUCTIONS

The campervan is fitted with a gas cooker, water and air heater. These gas-fired appliances operate with propane or butane or a mixture of these two LPG types gas bottles. The gas locker is designed for holding up to two 11 kgs gas bottles.



DANGER!

- When refuelling the campervan, make sure all gas-fired appliances in the living area of the campervan are turned off. Explosion hazard!
- If you smell gas or suspect a gas leak, immediately take the following measures:) Close the shut-off valve on the gas cylinder!
- Avoid ignition sources and naked flames. Smoking inside the campervan is strictly forbidden!
- When using the gas cooker, you must open either a roof light, a window or the doors!
- The campervan must never be heated with radiant heaters and other appliances that take their combustion air from the interior of the campervan!
- To ensure a continuous flow of air in the caravan, the forced air vents in the roof lights and in the floor plate in the kitchen area must never be covered!
- The gas locker must be hermetically sealed from the interior of the campervan and there must be a ventilation opening of at least 100 cm² on or immediately above the floor which must never be covered!
- Gas bottles must be kept in the gas locker only, where they must be held upright and strapped to prevent them twisting around!
- Do not store electrical devices (e.g. batteries) and/or devices which form a source of ignition in the gas locker!
- Appliances which run on gas must not be used while refuelling or in a garage!
- Operate the gas system only with propane, butane or a mix of the two gas types!
- **When driving, close the gas bottle shut-off valve and disconnect the gas regulator from the gas bottle!**
- Never leave children unattended in the campervan!
- Keep flammable materials such as curtains, wardrobe and front panels made of fabric away from heating and cooking appliances and lamps!
- Never use portable heating or cooking appliances!

2. CONTROL PANEL

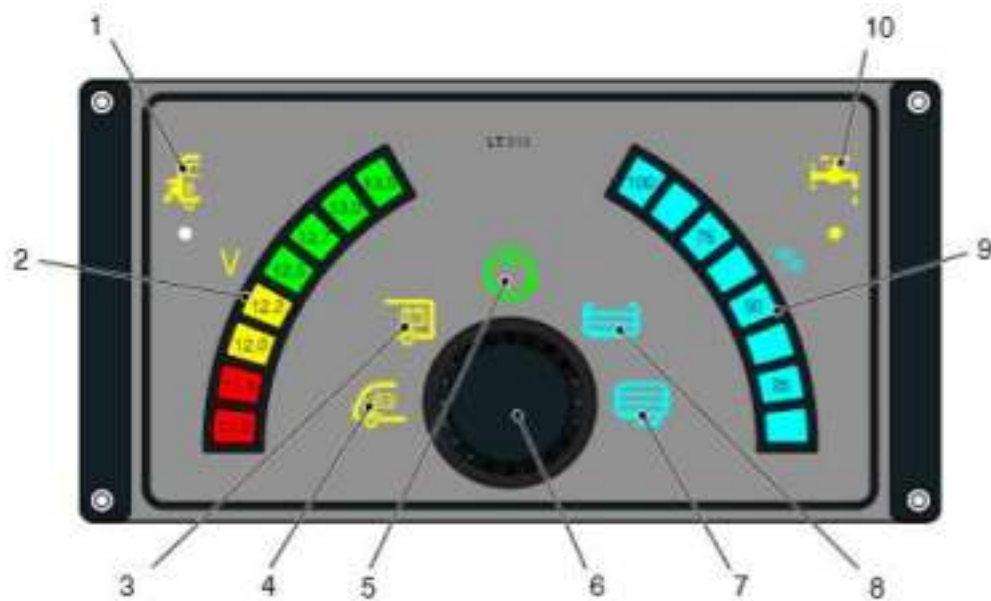


Fig. 1 – LT315 control and switch board

1. Indicator light “230 Volt mains connected” (when outside cable connected in camping)
2. LED display: Monitoring voltage for battery level
3. “Charging status Backup battery” indicator
4. “Charging status Starter battery” indicator
5. Symbol ON/OFF “Appliances main switch”
6. Rotary/press-in button
7. “Waste water tank level” indicator
8. “Fresh water tank level” indicator
9. LED display: Monitoring water level
10. Switch ON/OFF “Water pump”

3. BACKUP BATTERY / CHARGING / 12V

Your campervan is equipped with two batteries, one starter battery and one backup battery, providing a 12-volt power supply by backup battery and charger.

3.1. Backup Battery

The backup battery is located under the front seat. Rotate the button (Fig. 1, item 6) to show the charging state of the starter battery (Fig. 1, item 4) or backup battery (Fig.1 item 3) on the control panel.

3.2. Charging the batteries

Connect to the 230 Volt mains, using the provided external cable. Indicator light “230 Volt mains connected” (Fig. 1, item 1) lights up when cable is connected and charging the battery.

Switch off all electrical appliances while charging to achieve a rapid and optimum charge. Charging state of the backup battery should be checked on the LED display by rotating the button (Fig. 1, item 6) and checking the battery voltage (Fig. 1, item 2) on the control panel.

After connecting to the 230 Volt mains, activate the button again and observe the LED display for the backup battery. The LED display must now light in the green area towards 13 Volt. The charger is working correctly when this is the case. If the LED display does not change, the charger is not charging properly. Check to find the cause, e.g. charger with button in OFF position or damaged fuses 2 A, 30 A and 50 A in the battery box.

NOTE!

Power is also drained from the backup battery, even when the appliances are switched off. To avoid draining/damage to the backup battery, the charge state should always be checked. When not in use, the complete 12 Volt system can be switched OFF with the main switch (Fig. 1, item 6) on the control panel. The 12 Volt unit is not in operation when the green light (Fig. 1, item 5) is off. The electrical supply to the refrigerator, when in 12 Volt operation and to the heating is however maintained.

3.3. Battery charger / Fuse panel

The charger is installed under the rear seat and has one output for the backup battery. The charger starts as soon as it is connected to the 230 Volt supply.

When the backup battery reaches its full charge, the charger will start to charge the motor battery.

The electrical appliances in the living area connected to the 12 Volt power supply are protected by separate wire fuses in the distribution box.



Fig. 2 – Battery charger / Fuse panel

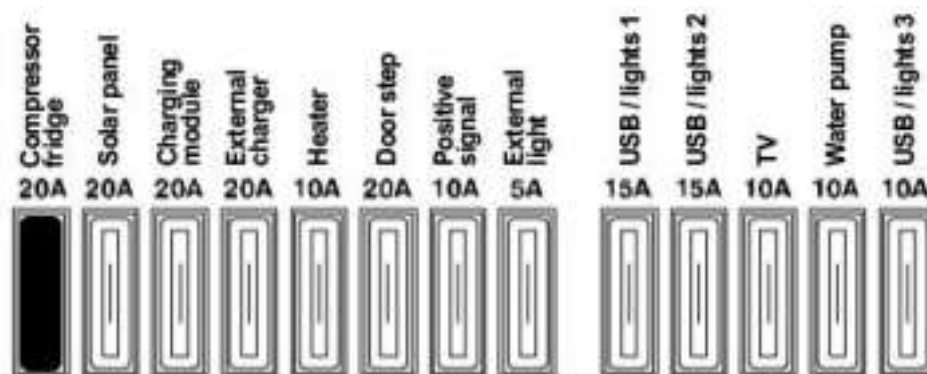


Fig. 3 – Fuse panel

4. GAS SYSTEM

4.1. Exchanging Gas bottle



CAUTION!

When driving, close the gas supply in the bottle shut-off valve and disconnect the gas regulator from the gas bottle.

1. Close the gas bottle valve (Fig.4, item 1)
2. Unscrew the connecting piece with the gas regulator (Fig.4, item 2) from the gas bottle by hand (caution: left-hand thread).
3. Undo fastening strap (Fig.4, item 3) and take the empty gas bottle out of the gas locker.
4. Protect the empty gas bottle with the threaded cap and a protective cap.
5. Store the empty gas bottle in a suitable place. Never leave the gas bottle unsecured.
6. Place the full gas bottle in the mounting in the gas locker and secure it with the fastening strap (Fig. 4, item 3).
7. Screw the connecting piece with the gas regulator (Fig.4, item 2) from the gas bottle by hand (caution: left-hand thread).
8. Open the gas bottle valve (Fig. 4, item 1).



Fig. 4 – Gas bottle installation



NOTE!

At altitudes exceeding 1,000 m, malfunctions may occur when igniting gas for reasons of physics. This however does not mean that the appliance is not functioning properly.

For winter camping, gas with as much propane as possible should be used, as butane no longer converts to the gaseous state below 0 °C.

4.2. Appliance Gas individual shut-off valves

Gas is used for the kitchen cooker, water boiler / air heater and fridge. If not in use, make sure to close the appropriate appliance shut-off valve located under the kitchen balcony.

1. Individual shut-off valve for cooker
2. Individual shut-off valve for water boiler / air heater
3. Individual shut-off valve for refrigerator



Fig. 5 – Gas shut-off valves

5. GAS COOKER



DANGER!

- To ensure a continuous flow of air in the caravan, the forced air vents in the roof lights, mushroom vents and in the floor plate in the kitchen area must never be covered!
- When using the cooker, you must also open a window or roof light to ensure an adequate supply of oxygen to the interior of your motorhome!
- The gas cooker should never be used as a heater!
- Risk of explosion! Never allow unburned gas to flow out!
- The user must be able to keep the gas ignition process in full view - this must not be concealed by pots etc.!
- The flame safety cover must be lifted whenever the cooker is in use!

Using the gas cooker:

1. Open the gas bottle valve (Fig.4, item 1) and appliance shut-off valve (Fig.5, item 1) on the valve block.
2. Lift up the cover on the hob.
3. To light the burner, turn the respective control knob and hold down, press the igniter button at the same time to start the flame.

6. HEATING / HOT WATER SYSTEM

The campervan is fitted with a Truma CP warm air heater with an integrated hot water system. The burner is fan-assisted, which ensures that operation is problem-free, even when on the move. In heating and hot water mode the heater can be used to heat the room and heat water up at the same time. If only hot water is required, select hot water mode (Summer and Winter temperature options).



NOTE!

At a temperature of approximately 3 °C at the automatic FrostControl safety/drain valve, the valve will open and drain the boiler.

Make sure the drain valve is in **CLOSED** position, and the blue button is pressed in, to use hot water in the campervan.

The drain valve is located in the water compartment, accessible from the outside, on the drivers side.



Fig. 6 – Boiler drain valve

6.1. Control panel TRUMA heating / hot water

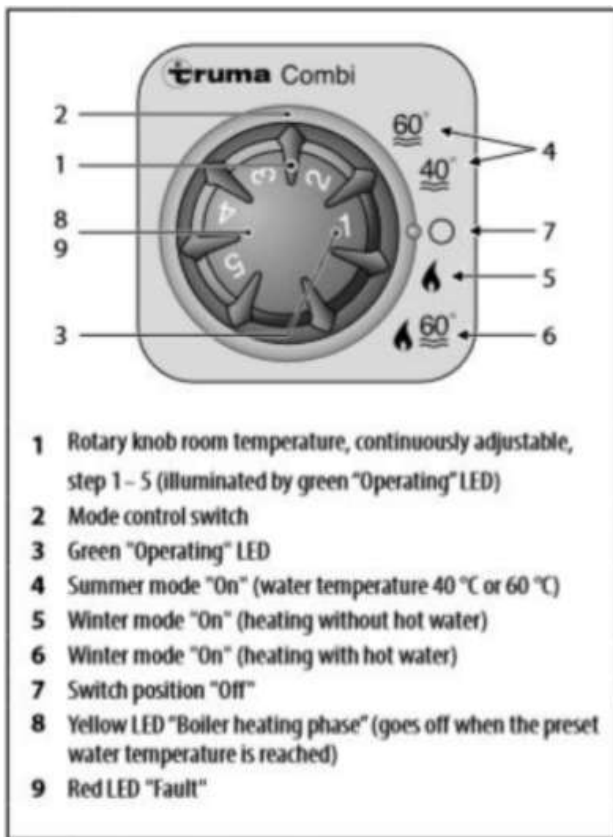


Fig. 7 – TRUMA control panel

6.1.1. Setting heating modes

Set the desired mode on rotary switch (Fig. 7, item 2) of the Trumatic control element as follows:

- Summer operation, position (Fig. 7, item 4) or
- Winter operation, position (Fig. 7, item 5/6)

Once one of the two modes is switched on, green indicator lamp (Fig. 7, item 3) behind the rotary knob goes on.

If the green indicator lamp does not go on, replace the fuse in the electronic control unit and/or the fuse for the battery monitor.

A continuously lit red indicator lamp (Fig. 7, item 9) indicates a closed gas bottle shut-off valve and/or appliance shut-off valve, interrupted air flow, air in the gas line or a faulty fuse. The fault is cleared by turning the appliance off and then back on again.

6.1.2. Heating – Summer operation

Heating: Hot water only

Set the rotary switch (Fig. 7, item 2) to the desired water temperature 40 °C or 60 °C (Fig. 7, item 4). Once the desired temperature has been reached, the burner shuts down and the yellow indicator lamp "Boiler warm-up phase" (Fig. 7, item 8) goes off. This function is only available in summer mode. The burner operates at the lowest burner setting.

6.1.3. Heating – Winter operation

Heating with controlled water temperature

1. Set the rotary switch (Fig. 7, item 2) to position (Fig. 7, item 6).
2. Turn the rotary knob (Fig. 78, item 1) to the desired thermostat setting 1 – 5 for the room temperature. Green indicator lamp "Operating" (Fig. 7, item 3) goes on and shows the room temperature selected. After attaining the room temperature selected, the burner switches to the lowest setting and the heats the water in the boiler to 60 °C.

Yellow indicator lamp "Boiler warm-up phase" (Fig. 7, item **8**) shows the heating phase and goes off when the water temperature has been attained.

Heating without controlled water temperature

1. Set the rotary switch (Fig. 7, item **2**) to position (Fig. 7, item **5**).
2. Turn the rotary knob (Fig. 7, item **1**) to the desired thermostat setting 1 – 5 for the room temperature. Green indicator lamp "Operating" (Fig. 7, item **3**) goes on and shows the room temperature selected. After attaining the room temperature selected, the heating switches off. When the boiler is filled, the water is heated automatically as well.

In this mode, the yellow indicator lamp "Boiler warm-up phase" (Fig. 7, item **8**) is only on for water temperatures below 5 °C.



Heating is basically unrestricted with or without water.

Heating with drained water system

1. Set the rotary switch (Fig. 7, item **2**) to position (Fig. 7, item **5**).
2. Turn the rotary knob (Fig. 7, item **1**) to the desired thermostat setting 1 – 5 for the room temperature. Green indicator lamp "Operating" (Fig. 7, item **3**) goes on and shows the room temperature selected. After attaining the room temperature selected, the heating switches off.

In this mode, the yellow indicator lamp "Boiler warm-up phase" (Fig. 7, item **8**) is only on for water temperatures below 5 °C.

6.1.4. Troubleshooting guide TRUMA heater

Flashing code at analogue control panel – CP Classic

Flash sequence LED:

– On / Off: 0.5 seconds

Pause between flash sequence: 5 seconds

Fault	Cause	Rectification
No LED is on, the unit is switched on and is supplied with operating current	– Automatic restart is blocked, e.g. after a power failure.	– Reset (fault reset) by switching off, waiting 5 seconds and then switching on again
No LED illuminates after switching on.	– No operating voltage – Device fuse or vehicle fuse defective	– Check 12 V battery voltage, charge battery if necessary – Check all electrical plug connections – Check fuse of unit or vehicle and replace if necessary (see fuses)
The green LED comes on when the unit is switched on, but the heating system does not operate	– The temperature setting on the control panel is lower than the room temperature	– Select higher room temperature at the control panel
After switching on the heating system, the green LED illuminates and the yellow LED flashes 1 x (Heating system continues to operate)	– Risk of low voltage – Battery voltage too low < 10.4 V	– Charge battery
yellow LED flashes 2 x (Heating system not operating)	– Low voltage – Battery voltage too low < 10.0 V	– Charge battery. If necessary replace old battery
(Only with Combi E)	– Overvoltage > 16.4 V – No 230 V operating voltage – 230 V fuse defective – Overheating protection has been triggered	– Check battery voltage and voltage sources such as the charger – Restore 230 V operating voltage – Replace 230 V fuse – Reset overheating protection, allow heating system to cool, remove connection cover and press reset button
yellow LED flashes 3 x	– Open window above cowl (window switch)	– Close window

Fault	Cause	Rectification
yellow LED flashes 4 x (After operating for a longer period of time, the heating system switches to failure)	– Summer mode with empty water container – Warm air outlets blocked – Circulated air intake blocked	– Switch unit off and allow to cool, fill boiler with water – Check individual outlet apertures – Remove blockage from circulated air intake
yellow LED flashes 5 x	– Room temperature sensor or cable defective	– Please contact Truma Service
yellow LED flashes 7 x	– Control panel or control panel cable defective	– Please contact Truma Service
yellow LED flashes 8 x	– FrostControl heating element has a short circuit	– Disconnect heating element plug from electronic control unit, replace heating element
yellow LED flashes 9 x (approx. 30 seconds after switching on the heating system)	– Gas cylinder or quick-acting valve in gas supply line closed – Gas cylinder empty	– Check gas supply and open valves – Replacing a gas cylinder
(After operating for a longer period of time, the heating system switches to failure)	– Gas pressure regulation system iced up – Butane content in the gas cylinder too high	– Use regulator heater (EisEx) – Use propane (butane is unsuitable for heating, particularly at temperatures below 10 °C)
Red LED flashes 1 - 8 times	– Heating system fault	– Please contact Truma Service. Determine flashing code (short, long) if necessary: Red LED on heater electronics.
Green LED flashes (with 5 Hz) after the heating system has been switched off	– After-running is active to reduce the temperature of the unit	– No fault. After-run switches itself off after max. 5 minutes.
Room heating does not react to adjustment immediately	– After-running is active to reduce the temperature of the unit	– No fault. After-run switches itself off after max. 5 minutes
After switching on the green and the red LED illuminate	– Faulty electronics	– Please contact Truma Service

Fault	Cause	Rectification
No LED illuminates after switching on.	<ul style="list-style-type: none"> - No operating voltage - Device fuse or vehicle fuse defective 	<ul style="list-style-type: none"> - Check 12 V battery voltage, charge battery if necessary - Check all electrical plug connections - Check fuse of unit or vehicle, replace if necessary (see fuses)
The green LED illuminates when the unit is switched on, but the heating system does not operate	<ul style="list-style-type: none"> - The temperature setting on the control panel is lower than the room temperature 	<ul style="list-style-type: none"> - Select higher room temperature at the control panel
Green LED flashes (with 5 Hz) after the heating system has been switched off	<ul style="list-style-type: none"> - After-running is active to reduce the temperature of the unit 	<ul style="list-style-type: none"> - No fault, after-run switches itself off after max. 5 minutes
Red LED flashes 6 x	<ul style="list-style-type: none"> - Lack of fuel due to insufficient fuel tank filling, tank has run empty and / or vehicle is on a slope 	<ul style="list-style-type: none"> - Fill tank with fuel, then fill fuel line as described in "Initial start-up"
Red LED flashes (except 6 times) or red LED permanently on	<ul style="list-style-type: none"> - Heater malfunction 	<ul style="list-style-type: none"> - Please contact Truma Service
Yellow LED flashes 1 x	<ul style="list-style-type: none"> - Risk of low voltage < 11.5 V 	<ul style="list-style-type: none"> - Use the electrical power from the battery sparingly, e.g. restrict lighting - Charge battery
Yellow LED flashes 2 x	<ul style="list-style-type: none"> - Undervoltage < 10.2 V 	<ul style="list-style-type: none"> - Check battery voltage, charge battery if necessary - Short-term immediate action, switch off major consumers or start up vehicle engine until the heating system starts running (approx. 4 minutes) - Battery capacity inadequate, if necessary exchange old battery

Fault	Cause	Rectification
Yellow LED flashes 2 x (Only with Combi E)	<ul style="list-style-type: none"> - Overvoltage > 16.4 V - No 230 V operating voltage - 230 V fuse defective - Overheating protection has been triggered 	<ul style="list-style-type: none"> - Check battery voltage and voltage sources such as the charger - Restore 230 V operating voltage - Replace 230 V fuse - Reset overheating protection, allow heating system to cool, remove connection cover and press reset button
Yellow LED flashes 3 x	<ul style="list-style-type: none"> - Open window above cowl (window switch) 	<ul style="list-style-type: none"> - Close window
Yellow LED flashes 4 x	<ul style="list-style-type: none"> - Warm air temperature and / or water temperature exceeded: - Not all warm air ducts are connected - Warm air outlets blocked - Circulated air intake blocked - Summer mode with empty water container 	<ul style="list-style-type: none"> - Check whether the 4 warm air ducts are connected - Check individual outlet apertures - Remove blockage from circulated air intake - Fill boiler with water
Yellow LED flashes 5 x	<ul style="list-style-type: none"> - Room temperature sensor or cable defective 	<ul style="list-style-type: none"> - Please contact Truma Service
Yellow LED flashes 6 x	<ul style="list-style-type: none"> - Water temperature exceeded in summer mode 	<ul style="list-style-type: none"> - Fill boiler with water
Yellow LED flashes 7 x	<ul style="list-style-type: none"> - Control panel or control panel cable defective 	<ul style="list-style-type: none"> - Please contact Truma Service
Yellow LED flashes 8 x	<ul style="list-style-type: none"> - FrostControl heating element has a short circuit 	<ul style="list-style-type: none"> - Disconnect heating element plug from electronic control unit, replace heating element

7. REFRIGERATOR

The refrigerator can operate on three power modes:

- Mains voltage (230V AC / External mains cable)
- Direct-current voltage (12V DC / Backup battery)
- Gas (liquid gas propane/butane)

Select the desired power source by turning the energy selector switch (Fig. 7, item 1) according to the situation. To regulate the cooling temperature, rotate the knob (Fig. 8, item 2). In 12V mode there is no possibility to regulate temperature.

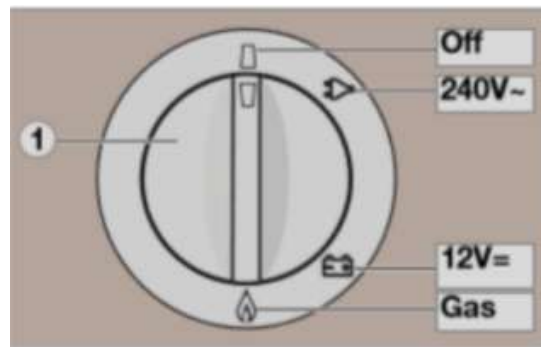


Fig. 7 – Power ON / Energy selector switch



- The refrigerator should only be used in 12V DC-operation (Backup battery) while the vehicle's engine is running or driving, otherwise the backup battery would be discharged within a few hours!
- Even if the main control panel is OFF (Fig. 1, item 5) the refrigerator will be working all the time to control temperature inside. Make sure to turn it OFF, in the refrigerator energy selector switch (Fig.7, item 1), when not in use or when returning the campervan.

7.1. Operating refrigerator in gas mode

To operate the refrigerator when not driving the campervan or connected to an external mains power source, use it in Gas mode:

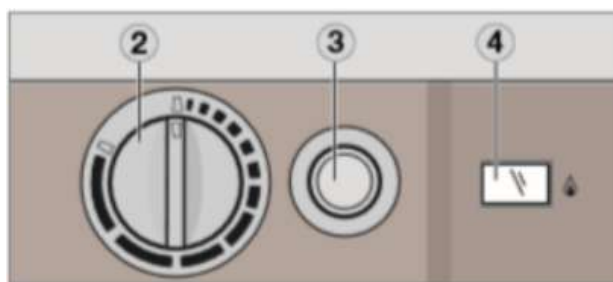


Fig. 8 – Cooling temperature / Gas igniter switch

1. Open the gas bottle valve (Fig.4, item 1) and appliance shut-off valve (Fig.5, item 3) on the valve block.
2. Turn the rotary selector switch (Fig.7, item 1) to Gas mode (flame icon)
3. Turn the temperature selector (Fig.8, item 2) clockwise and push. Keep the controller button depressed.
4. Then, press the button (Fig.8, item 3) of the battery igniter down and keep it depressed. The ignition process is activated automatically.
5. Once the flame ignites, the pointer of the galvanometer (Fig.8, item 4) begins moving into the green range. The refrigerator is operational. Keep knob (Fig.8, item 2) depressed for approx. 15 seconds and finally release it.



CAUTION!

- As a basic rule, gas operation is prohibited in petrol stations and when driving the campervan.
- The refrigerator must be operated using liquid gas (propane, butane), no natural gas or town gas.
- For physical reasons, gas ignition faults could occur starting from an altitude above sea level of approx. 3280 ft. / 1000 m (No malfunction!)
- On the initial refrigerator start-up or after a cylinder change, air may be trapped in the gas line. To purge the air from the lines, switch on the refrigerator and any other gas appliances (e.g. stove) for a short time. The gas ignites without delay.

7.2. Operating refrigerator in 12V / battery mode

To operate the refrigerator when driving the campervan, turn the rotary selector switch (Fig.7, item 1) to 12V mode (battery icon). Make sure that the motor is running when using this mode.

7.3. Operating refrigerator in 230V / mains cable

To operate the refrigerator when parked in a camping site and with mains cable connected, turn the rotary selector switch (Fig.7, item 1) to 230V mode (electrical plug icon).

8. TOILET

1. "Flush" button
2. "Cassette tank removed" display
3. "Fill fresh water tank" display
4. "Cassette tank 3/4 full" display
5. "Cassette tank full" display

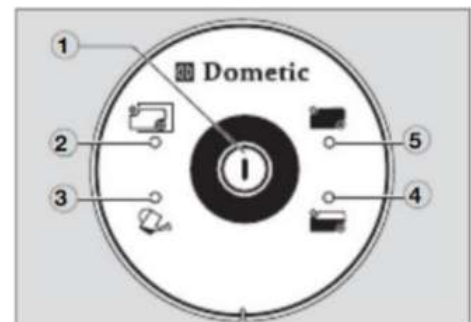
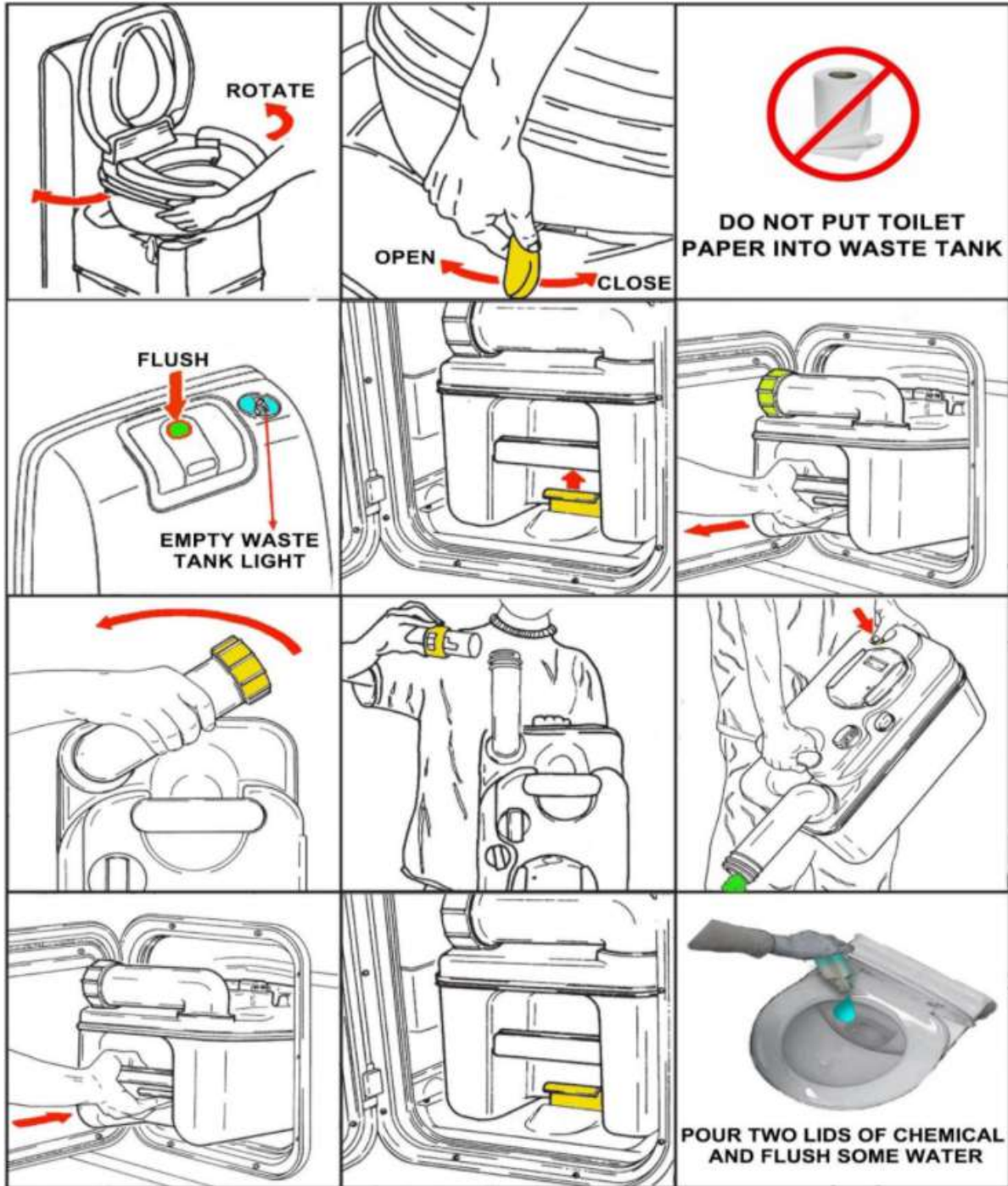


Fig. 9 – Toilet control panel



CAUTION!

- Only empty the cassette on camp sites with suitable sewage systems or specially designated disposal facilities!
- Empty the cassette completely if there is a risk of frost and the motorhome is not heated!
- In winter, the toilet flush should not be used until the WC cubicle has warmed up thoroughly otherwise the water pump of the toilet may be damaged!
- An environmentally friendly and fully biodegradable chemical WC additive should be used for the WC.
- If environmental concerns exist, the WC can also be used without chemical additives, but the cassette will require more frequent emptying as a result.



NOTE!

1. Before using the toilet, turn the water pump ON (Fig. 1, item 10) and push down the flush button briefly to allow a small amount of water into the bowl or open the valve blade under the toilet bowl. The toilet is now ready for use.
2. After use, open the valve blade if still closed by pulling the valve blade grip forwards and flush the toilet by pressing the flush button.
3. Do not put toilet paper into the waste cassette.
4. Close the valve blade again after flushing.
5. Always empty and clean waste toilet cassette and waste water tank before delivering the campervan, otherwise a **Cleaning Fee** will apply.

9. COCKPIT BLINDS

Your campervan is equipped with front blinds in doors and windscreen windows that need to be handled with care. Please follow these steps:



1. Search for the magnetic ends and match them with their corresponding connecting spots.



2. Hold the blind in place, tight to the window frame, taking care not to damage nor crease them.

10. SPARE TIRE

The Atlas 2020 model has a spare tire to be found underneath the vehicle.



To release the spare tire, tools are needed to loosen the steel cable holding the spare tire. These tools can be found inside the toolbox, which is underneath the passenger seat.



The insertion point for the tools can be found underneath the vehicle, below the gas compartment door, right behind the rear right hand side wheel.

