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# Welcome

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Dear Customer,

Thank you for purchasing a Moto-Trek Motorhome and welcome as a valued customer.

In this handbook you will find many hints and important information on the operation and safe use of your vehicle. While we have endeavoured to cover all major points, you will also need to refer to the individual handbooks for each appliance for more in-depth information. This handbook is for this Motor Home, please check each section to ensure it applies to your vehicles specific layout before trying to operate any of the systems or appliances. The van manufacturers handbook should be consulted for information on the safe use of your vehicle on the road.

Throughout the season changes may be made to vehicle specification and this handbook. Please contact us for any further information you may require.

Thank you.

**Model**.....

**Vehicle VIN No**.....

**Vehicle Registration No**.....

**Base Vehicle**.....

**Engine**.....

**Date of Handover**.....

**Warranty Start date**.....

# Warranty

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## Warranty / troubleshooting

For any warranty or troubleshooting issues please call the below number.

**Moto-Trek: 01142 884411**

# Loading your motorhome

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## Dimensions

Your motorhome is:

6.36m in length

2.26m wide with the mirrors folded

2.64m tall with the TV aerial stowed

## Weights (kg)

Maximum technically permissible laden mass and registration mass – 3500Kg

Mass of vehicle in running order – 3160Kg

Included in this is the mass of essential habitation equipment – 138Kg

This is the mass of the leisure batteries, 90% full gas tank, fresh water tank & hook up cable.

This leaves a Mass of user payload – 340kg

This is split between:

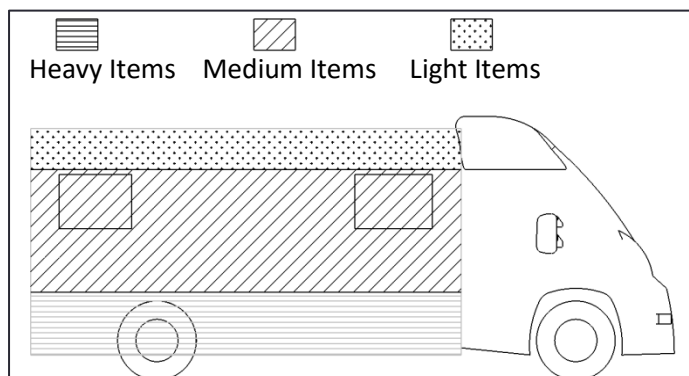
Mass of the conventional load (passengers) – up to 225Kg (75kg per person)

Mass of the optional equipment – 230.4Kg

Mass of personal effects – 103Kg

## Load spread

When loading your vehicle consider balance and positioning. Try to load items as close to the floors as possible, with heavy items at the bottom and lighter items towards the top, as shown in fig1.



Please take care that you have allowed for the masses of **ALL** items you intend to carry in the motor caravan e.g. Passengers, optional equipment, essential habitation equipment and personal effects such as clothing, food, pets, bicycles, sailboards, sports equipment etc.

**Warning! Under No circumstance should the registration mass of this motor caravan be exceeded.**

The mass in running order includes a provision for the masses of fresh water and gas. Part of this provision can also be utilised as additional payload if for example you wish to travel with water tanks empty or no gas.

The masses quoted are subject to tolerance. YOU are responsible for ensuring the vehicle is never used above its registration mass.

# Before your Journey

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Prior to setting off on your journey there are some motorhome specific requirements that you should check, in addition to standard vehicle checks.

- Ensure all gas appliances are turned off
- Switch your fridge to 12v mode and ensure the door catch is engaged
- Shut and secure all external locker doors
- Close all internal cupboards and engage catches
- Shut all windows and roof lights taking care to close top hinged window catches
- Disconnect 230v lead and shut hatch
- Retract external step and fully close awning if fitted
- Check all drain points are closed
- Fully open and secure cab blinds
- Fix both driver and passenger seating in the forward position
- Ensure the TV aerial is in the correct position for travel
- Ensure all items stored within the vehicle are secure paying special attention to heavy items
- **NOTE: "To ensure the leisure battery is fully charged before use, connect the vehicle to the mains electricity via the 240 volt lead provided. Caravan mains hook up 3 pin adapters are widely available from various outlets, including Amazon."**

# Passenger seating

All available travelling seats are fitted with 3 point seatbelts. Depending on the specification of your motorhome this may include additional travelling seats in the rear. These are clearly identified as forward facing with seatbelts.

DO NOT travel with passengers who are unsecured or using habitation only seating. You as the driver may be liable for a fine.

## Child Seats

This information must be read in conjunction with the Peugeot/Fiat vehicle handbook and all instructions given in the seat manufacturer's installation guide. You must consult the vehicle handbook to assess the suitability of cab seats for your child restraint system.

The following table lists the suitability of seating positions within the rear of your motorhome regarding the fitment of child restraint systems:

Mass Group	Seating position (or other site)	
	Rear Outboard	Rear Centre
Group 0 up to 10 kg	X	X
Group 0+ up to 13 kg	X	X
Group I 9 to 18 kg	X	X
Group II 15 to 25 kg	X	X
Group III 22 to 36 kg	X	X

X = Seat position not suitable for children in this mass group

ISOFIX child restraint fittings are not fitted to the rear seating installation. Therefore child restraint systems designed to be mounted on ISOFIX mounting points are not suitable for use on the rear seating.

The following table lists the suitability of seating positions within the rear of your motorhome regarding the fitment of ISOFIX child restraint systems:

Mass group	Size class	Fixture	Vehicle ISOFIX positions	
			Rear Outboard	Rear Centre
Carycot	F	ISO/L1	X	X
	G	ISO/L2	X	X
Group 0 up to 10 kg	E	ISO/R1	X	X
Group 0+ up to 13 kg	E	ISO/R1	X	X
	D	ISO/R2	X	X
	C	ISO/R3	X	X
Group I 9 to 18 kg	D	ISO/R2	X	X
	C	ISO/R3	X	X
	B	ISO/F2	X	X
	B1	ISO/F2X	X	X
	A	ISO/F3	X	X
Group II 15 to 25 kg			X	X
Group III 22 to 36 kg			X	X

X = ISOFIX position not suitable for ISOFIX child restraint systems in this mass group and / or this size class.

There is no vehicle specific ISOFIX child restraint systems recommended for the positions indicated.

# Towing with your motorhome

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Your motorhome may have been fitted with a tow bar. The specification allows you to:

Tow a braked trailer of up to 3000kg GVW.

Tow an unbraked trailer of up to 750kg GVW.

Apply a nose load of 100kg to the tow bar (S value).

The load that the trailer imposes on your vehicles tow bar must be considered when ensuring that you are not exceeding the technically permissible maximum laden mass of your motorhome.

**Warning! Never exceed the capacity of your motorhome or tow bar.**

European Commission Regulation (EU) No 1230/2012 states that where the road traffic legislation allows it, the technically permissible maximum laden mass of the vehicle may be exceeded by not more 100 kg. See Technical Specifications for the technically permissible maximum laden mass.

This allowance shall apply only when towing a trailer provided that the operating speed is restricted to 100 km/h or less.

It is YOUR responsibility to ensure that the vehicle is not overloaded, complies with road traffic legislation and licensing, and insurance restrictions are not exceeded.

You should check your Driving License gives you the entitlement to tow trailers before doing so. Contact your license issuing body to do this.

For information regarding towing your motorhome see the Peugeot/Fiat manufacturer's handbook supplied.



# Safety features

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Prior to using your motorhome please ensure you fully understand the safety features within your motorhome and are aware of their operation.

## Carbon Monoxide (CO) detector

**Warning! A loud alarm is a warning that unusually high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm, further exposure can be fatal. Immediately check residents for symptoms of carbon monoxide poisoning, and contact the proper authorities to resolve all CO problems. NEVER IGNORE ANY ALARM!**

### What to do during an Alarm:

- Keep calm and open the doors and windows to ventilate your motorhome
- Stop using all fuel burning appliances and ensure, if possible, that they are turned off
- Evacuate the motorhome leaving the doors and windows open
- Do not re-enter the property until the alarm has stopped. When exposed to fresh air it can take up to 10 minutes for the sensor to clear and the alarm to stop depending on the level of carbon monoxide detected
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected
- Do not use any appliances until they have been checked by a trained expert

### Types of alarm

Your CO detector will operate in the following manner should it detect abnormally high carbon monoxide concentrations in the atmosphere:

- Between 60 and 90 minutes when exposed to 50ppm of CO
- Between 10 and 40 minutes when exposed to 100ppm of CO
- 3 minutes when exposed to 300ppm or more of CO

The detector will flash a green LED when it is operating correctly. To ensure the continued operation of your CO detector it is equipped with a test/reset button. This button will:

- Test the sounder, power pack and circuitry
- Allows you to test the sensor by introducing a source of CO into the detector
- Silence the loud 85dB (at 1 metre (3 feet)) sounder during an alarm (only for alarms due to levels of CO of less than 50ppm)

### Testing the sounder, power pack and circuitry

Test the sounder, power pack and circuitry by pressing and releasing the test/reset button to confirm that the detector is operating properly. The sounder should sound as soon as the button is pressed and the alarm LED will illuminate red indicating that the sounder is working and the power pack is providing power to the unit. This test for the sounder power pack and circuitry should be performed on a weekly basis.

**CAUTION:** Sensor testing should only be performed by a responsible adult. This test should only be performed annually. Excessive testing will cause the life of the power pack to be shortened. Refer to the detector manufacturer’s manual for more information.

**Important:** The selected power pack was chosen to provide power beyond the lifetime of the product, in particular the sensor (under normal operating conditions). The sensor life is seven years. For this reason, the detector should be replaced after seven years from the date of installation.

#### Care of the CO detector

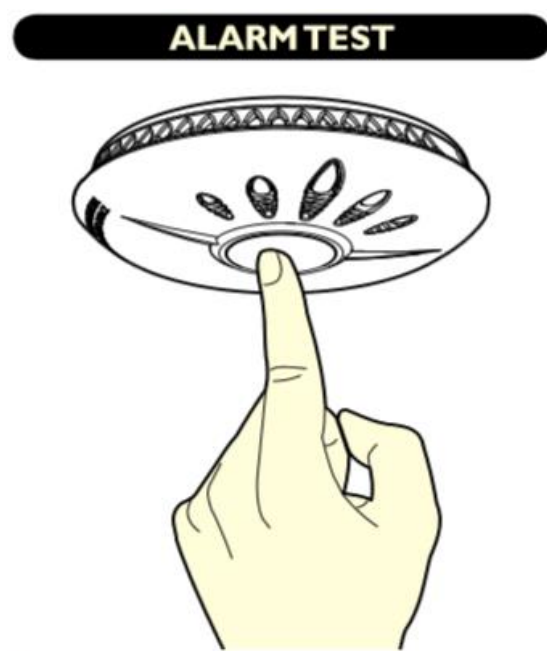
To protect the integrity of the CO detector ensure that it is kept free from dust and clean through its lifetime. Do not use solvents to clean off paint over the unit. Avoid using aerosols in the vicinity of the detector.

#### Smoke alarm

**Warning! If your Fire Angel smoke alarm emits the full alarm signal and you are not testing the unit, the smoke alarm is warning you of a potentially dangerous situation that requires your immediate attention. Only use the alarm silence function after making sure that there is no ongoing fire emergency situation. Do not block the vents on the alarm or disable the smoke alarm in any way, as this will remove your protection.**

#### Testing the alarm

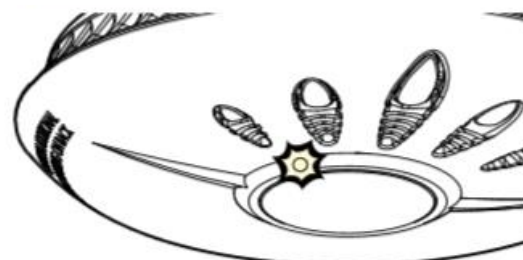
The red LED on the front should flash every 40 seconds to show the alarm is active. You should also perform the following alarm test on a weekly basis to ensure the correct continued operation of the device.



A) Press the test button in the centre and release.



B) The unit will emit a loud (85dB at 3 meters) alarm for around 5 seconds and stop automatically.



C) The red LED on your alarm will flash rapidly during the audible signal.

As the alarm power pack reaches the end of its life, a low power warning chirp will be remitted every 40 seconds. When this occurs you must replace the unit within 7 days.

**Important:** This Fire Angel smoke alarm has a limited life of 10 years and should not be considered as a substitute for life or property insurance. Like all electronic equipment, it can wear out or fail. It should be tested weekly and replaced immediately in the event of failure, and replaced every 10 years regardless.

The smoke alarm is not serviceable and you should never attempt to gain access to the device. When the power pack is drained it should be replaced at the earliest possible opportunity with a new smoke alarm suitable for motorhome use.

#### Care of the smoke alarm

Care should be taken to ensure that the smoke alarm is not exposed to dust and dirt. It can be cleaned using a slightly damp cloth only, do not use solvents which may enter the unit and damage the detectors. Dust can build up in the openings to the detectors so it is important to remove this by vacuuming the unit using a soft brush attachment a minimum of once every 3 months. For more information consult the smoke alarm manufacturer's guidelines.

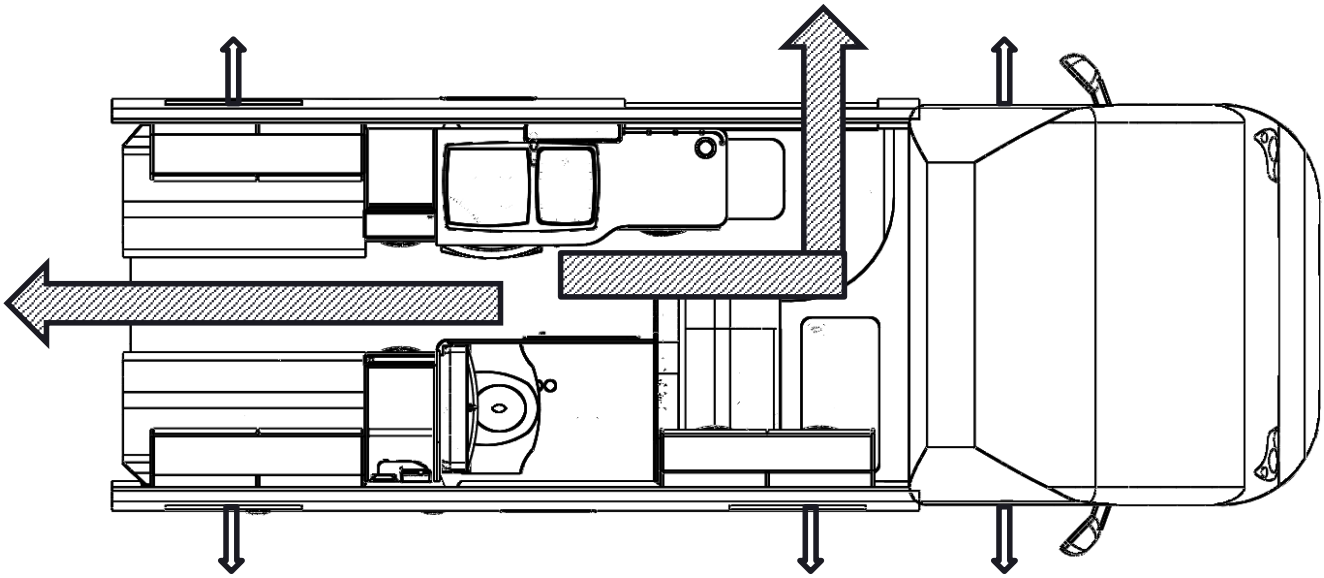
#### Fire blanket and fire extinguisher

Your motorhome has been supplied with a fire blanket and fire extinguisher. Please ensure that you read the instructions for use supplied with these safety devices fully and that you understand the limitations of their use. The fire extinguisher is located just behind the driver's seat, accessible either from the interior of your motorhome or through the driver's door.

It is recommended that you provide one dry powder fire extinguisher of an approved type or complying with EN3-7 of at least 1Kg capacity by the main exit door, and a fire blanket next to the cooker. Familiarise yourself with the instructions on your fire extinguisher and the local fire precaution arrangements.

## Escape paths

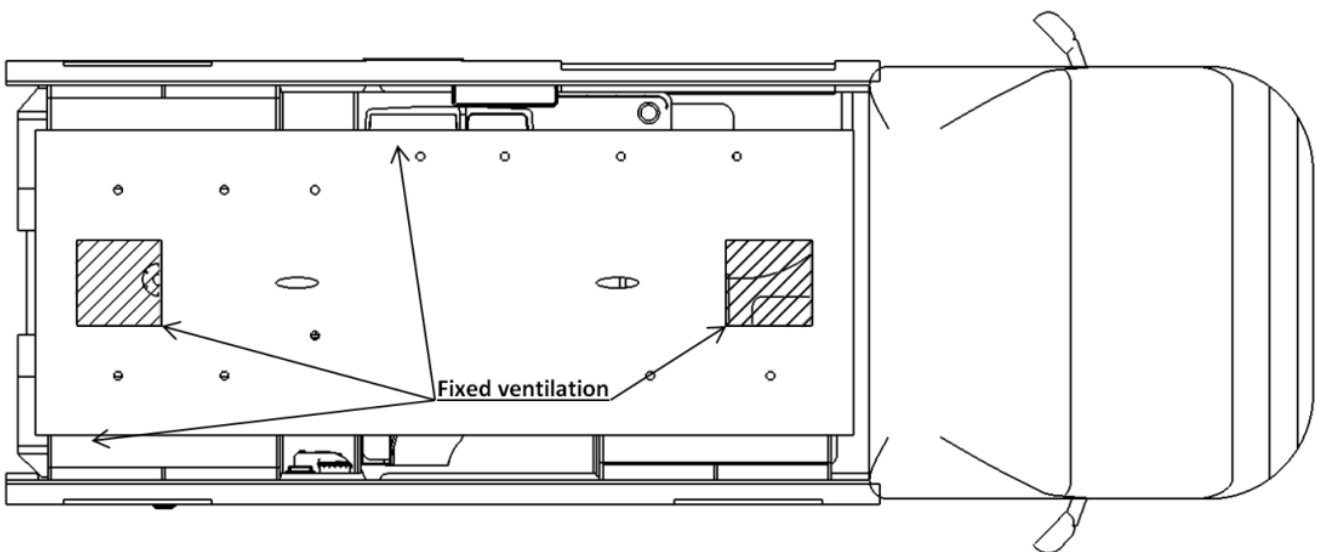
Your motorhome has been designed in line with industry standards relating to escape paths from all parts of your motorhome. The vehicle can be exited from all van doors. Ensure that these remain free from obstruction during your motorhomes use, both inside and outside of the motorhome. Never store items that will obstruct your path from the motorhome within the walkway from the front to the rear.



## Ventilation

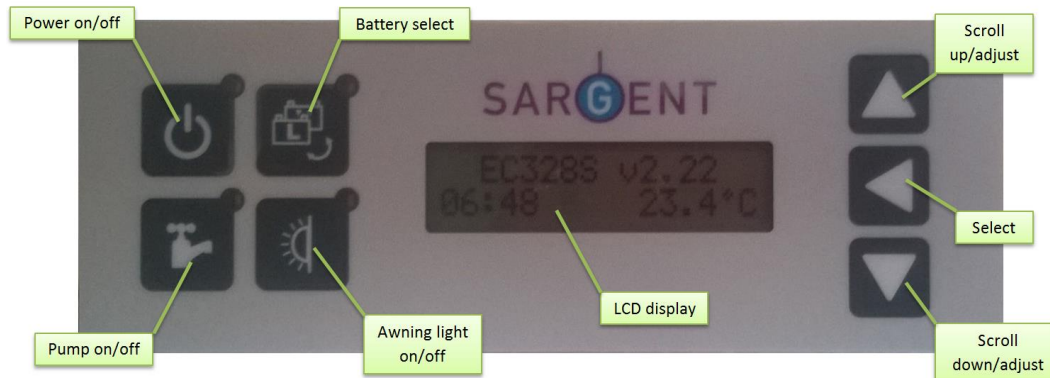
Your motorhome has been designed in compliance with relevant standards relating to ventilation in the motorhome. This includes access paths for fresh air at high and low level. Ensure that all openings are kept completely clear at all times.

Your skylights are fitted with fixed ventilation. There is also fixed ventilation in the floor next to the Truma Combi 4E heater and underneath the fridge. Ensure these vents are never obstructed and kept clean at all times.



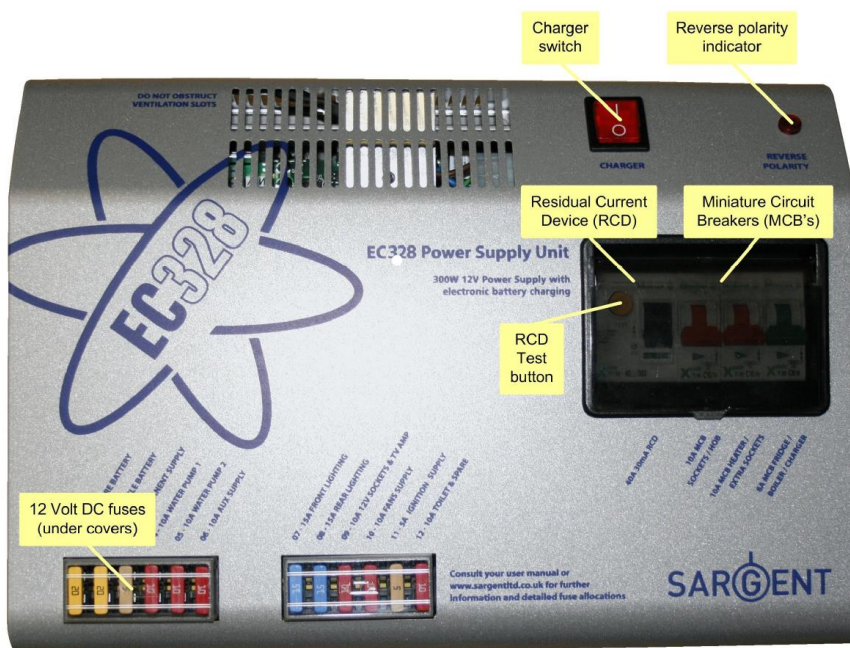
# Control panel

Your motorhome is fitted with a central control panel. This allows the vehicle circuits to be switched on and off and gives you information about your motorhome.



For information regarding the usage of the control panel functions see the relevant section within this hand book or consult the EC328PSU handbook for further information.

It is linked to the Sargent EC328PSU which controls your motorhomes 12v and 230v circuits.



**Warning! Under heavy loads the EC328PSU case may become hot. ALWAYS ensure the ventilation slots have a clear flow of air. Do not place combustible materials against/adjacent to the EC328PSU. The PSU will shut down if overheated and will restart automatically when cool.**

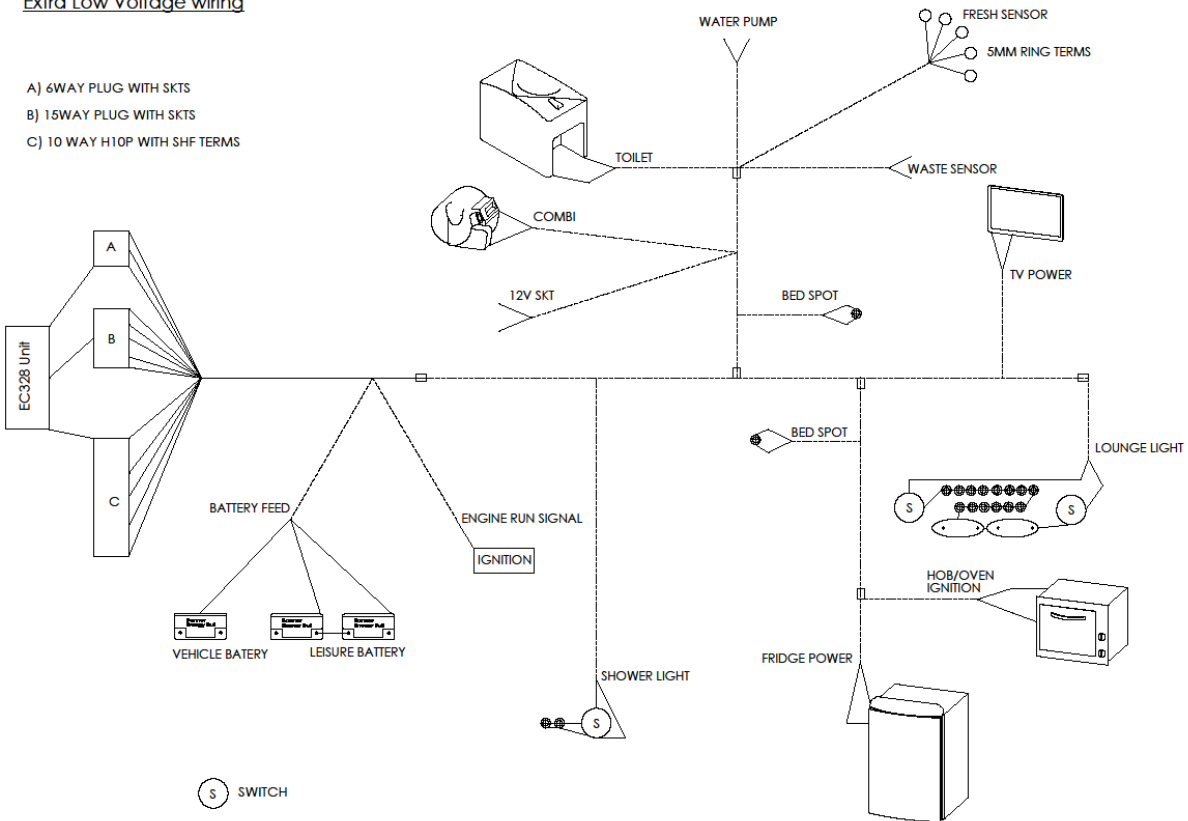
Refer to the EC328PSU handbook for further information regarding safe usage of the unit and a troubleshooting guide.

# Your wiring diagrams

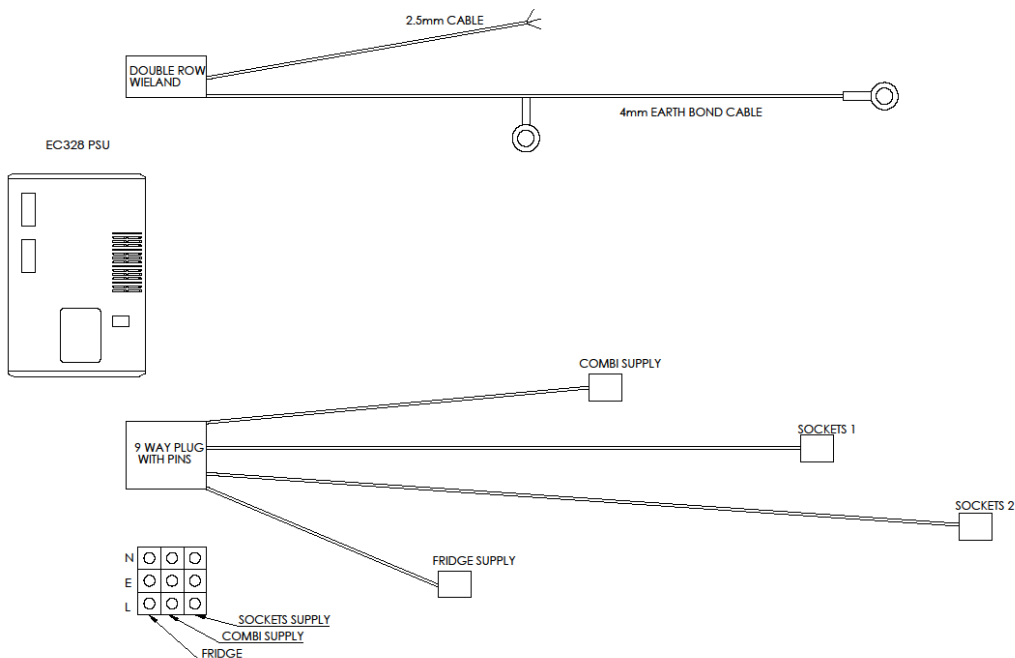
**Warning! These diagrams are for reference only. Modification of any electrical system and/or appliance should only be carried out by competent persons.**

Your circuits are protected by circuit breakers. The 230v circuit is rated to a maximum usage of 10Amps or 2.3Kw. The 12v circuit is rated to a maximum usage of 20Amps or 240w. Do not exceed the maximum usage as this will trip the breaker and may cause damage to the circuit. For example, a hairdryer will typically use 1500 – 2000 watts, where as a phone charger will use 2-5w.

## Extra Low Voltage wiring



## LOW VOLTAGE WIRING



# Mains electrical connection

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For your safety it is ***IMPORTANT*** that you follow these connection instructions each time your motorhome is connected to a mains supply.

- A)** Ensure suitability of the mains supply. Your leisure vehicle should only be connected to an approved supply that meets the requirements of BS7671. In most cases the site warden will hold information regarding suitability of supply. If using a generator you also need to comply with the requirements/instructions supplied with the generator. Please note that some electronic generators may not be compatible with your leisure system.
- B)** Switch the EC328PSU internal Power Converter OFF. Locate the charger power switch on the EC328PSU and ensure the switch is in the OFF (0) position before connection to the mains supply.
- C)** Connect the Hook-up Lead. Firstly connect to the motorhome and then connect to the mains supply.
- D)** Check residual current device operation. Locate the RCD within the EC328PSU and ensure the RCD is switched on (lever in up position). Press the TEST button and confirm that the RCD turns off (lever in down position). Switch the RCD back to the on position (lever in up position).
- E)** Check correct polarity. Locate the 'Reverse polarity' indicator on the EC328PSU and ensure that the indicator is NOT illuminated.
- F)** Check miniature circuit breakers. Locate the MCD's within the EC328PSU (adjacent to the RCD) and ensure they are all in the ON (up) position.
- G)** Turn the EC328PSU ON. Locate the power switch on the EC328PSU and turn to the ON (I) position. The switch will illuminate when turned on.
- H)** Check operation of equipment. It is now safe to check the operation of the 12v and 230v equipment.

**For more information, please refer to the operating manual.**

The control panel will show that the connection has been made by cycling through the functions within it using the scroll buttons.

Your motorhome is fitted with a power tower in the kitchen area. To protect the unit keep it stowed away unless in use. Take care not to allow dirt or liquids to touch the tower when in use.

To operate lift with the handle and draw out to its full extent. Connect the plug of your electrical device and then turn the switch on the tower on. When you have finished using the appliance, switch off and remove the plug.

**Warning! Do not attempt to close the power tower with plugs still attached.**

Press the release button and push the power tower back into the worktop ensuring it is fully shut.

**Warning! Inside outlet sockets shall only be used with dedicated appliances.**

**Warning! No appliance shall be used outside when being connected to the internal socket.**

# 12v circuit & batteries

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Turn the control panel on by pressing the power on switch. The blue LED indicator light will illuminate. Cycle through the control panel function using the scroll buttons. On the LCD screen the leisure and vehicle battery voltages are shown. Your motorhomes habitation circuits will be powered by the on board leisure batteries as standard and will be charged by the EC328PSU if the mains electrical connection is attached.

**Warning! When the voltage provided by the leisure battery reduces some electrical components may not function correctly.**

Should the leisure battery voltage drop to a low level, it is possible to power the habitation circuits using the vehicle battery using the battery select button. We recommend this is only done in emergencies and for short periods to avoid damaging the vehicle battery and stopping your motorhome from starting.

The 12v circuits are protected by fuses within the EC328PSU. Should a 12v circuit not be operating correctly switch the unit off and identify the correct fuse. If the fuse is found to have blown it can be replaced and the unit turned back on.

**Warning: When replacing fuses always replace a fuse with the correct value. NEVER replace with a higher value / rating as this could damage the wiring harness. If a replacement fuse 'blows' do not keep replacing the fuse as you could damage the wiring harness. Please investigate the fault and contact your dealer.**

Your motorhome has been fitted with deep cycle leisure batteries suitable for use in this application. They are fitted with ventilation kits to carry any gases given off by the battery to the outside of the motorhome. However there is still a danger that gases may be present by the batteries. Ensure that no possible spark or source of ignition is near the batteries and do not smoke when the compartment housing them is open.

The auxiliary battery is recharged whilst either, driving via the alternator, or when using a 230v hook up. It is possible to charge the leisure batteries prior to use using a mains powered 12v battery charger. To do so it is important that you disconnect the batteries from the vehicle to avoid damaging the circuits and circuit protection. To do this all appliances and lamps must be switched off before disconnecting and reconnecting the auxiliary battery. Do this by switching the control panel power off and ensuring the EC328PSU is turned off. Make sure the vehicle ignition is also switched off.

**Warning! Any replacement of an auxiliary battery shall be of the same type and specification as that originally fitted or specified by the manufacturer.**

Instructions for full operation and maintenance of appliances can be found in the appliances user manual.



# Water connection

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Your motorhome has an on board water tank which is used to supply the taps and water heater within the vehicle. When filling the tank ensure that the source is suitable for drinking and the pipe or similar equipment you use to fill it are suitable.

The control panel will show what level of water is present in the tank in 25% steps. You can access this by scrolling through the functions on the control panel using the scroll buttons.

Your motorhome has an on board water pump fitted which is capable of supplying the water circuits. This can be turned on using the pump switch on the control panel. The LED indicator will illuminate when this is in use.

**Warning! Do not run the pump when the water tank is empty as this risks damaging the pump.**

It may be necessary to prime the water circuit when it has been left dry for some time. To do this turn the pump on and open the taps with the mixer tap in the central position to run both the cold and hot pipes. This will purge any air in the water circuit. When all taps have water flowing shut all the taps.

The water circuit includes a pressure switch which will automatically turn the water pump off when the system is at pressure. Opening a tap will cause the pressure to reduce and the pump will turn on again. Note that the pump also supplies the water heater which will take some time to fill.

If the pump continues to run when the taps are shut and the boiler has had time to fill switch it off manually with the control panel and contact your dealer for service. The pressure switch may not be operating correctly.

# Waste water

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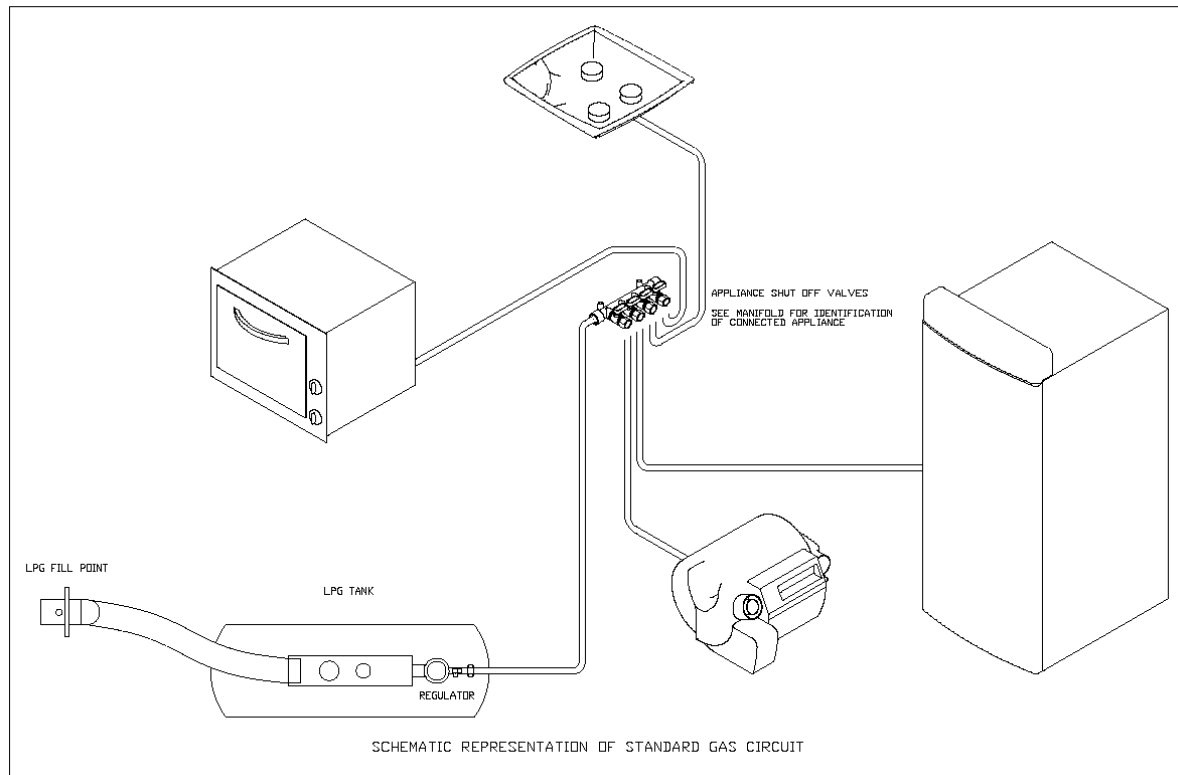
Your motorhome is fitted with a gravity fed waste water tank which is fixed underneath the chassis of your vehicle. The drains from the kitchen and washroom sinks and the shower lead to this tank. The toilet waste holding tank is integral to the toilet unit fitted. Please refer to the relevant section of this handbook for details on this.

The waste water tank is fitted with level indicators at 50% increments which can be viewed on the control panel within your motorhome by scrolling through the information display using the scroll buttons. If the waste water tank is over filled waste water will back up through the drain pipes so ensure that this is checked regularly.

Waste water must be disposed of either into separate suitable containers or directly into a suitable waste water disposal point. To do so open the drain tap, this is located on the driver's right side of your motorhome underneath the vehicle sill and is identified as a grey tap. To prevent the build-up of unpleasant smells it is recommended that you ensure the waste water tank is drained regularly and stored empty.

# Gas connection & use

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Gas circuit information. Design may vary depending on vehicle specification.

**Warning! The gas system shall only be modified by a competent person or qualified Gas Safe engineer.**

Note: Appliance types may vary dependent on spec, **IF IN DOUBT CALL 01142 884411**

It is recommended that you inspect the flexible gas hose(s) regularly for deterioration and renew, as necessary, with the approved type, in any case not later than the expiration date marked on the hose(s).

Your motorhome has been constructed to include either provision for replaceable gas bottle storage a fixed LPG gas cylinder in accordance with UNECE road vehicle regulation similar to those used for LPG propelled vehicles. This is a safe and convenient method of storing gas used within the appliances in your motorhome allowing you to fill up as required.

If a gas cylinder has been fitted a level indicator is fitted in the cab of your motorhome to the right of the steering wheel. This displays the volume of LPG available for use.

Read user and maintenance instructions provided by the appliance manufacturer. If any soot or similar discolouration appears or a smell is produced by the appliance consult a competent person or qualified Gas Safe engineer to have any necessary adjustments made. If an appliance is removed by them ensure that the supply line is appropriately capped and get advice before using any other appliance.

**Warning! The entire gas installation including the tank and filling equipment should be inspected by a competent person or gas safe engineer at least annually. It is necessary to replace hoses after 5 years use.**

#### Filling instructions for LPG fixed gas cylinder

**Warning: Ensure the motorhome is switched off, the control panel is off and all gas appliances are completely shut off before commencing filling.**

Your motorhome is fitted with the UK standard bayonet connection for attaching standard LPG filling hoses available at many filling stations. To access this, remove the protective plastic cap from the LPG filling point. Ensure that you read, understand and follow all instructions provided at the filling station regarding the use of their equipment and are aware of what to do in an emergency.

Check that the nozzle of the filling station assembly is in correct working order and that the outer barrel is free to rotate through 90°. Align the nozzle assembly with the attachment point on your motorhome. Rotate and secure the nozzle to the attachment point in line with the filling station instructions. When you are happy that the locking device is in place, turn on the pump by pressing the switch or lever.

In accordance with regulation the tank is fitted with an 80% limit which will shut the inlet to the tank when it is reached. This is to allow for expansion. Note that the level indicator will read full in this instance. The filling station pump should shut off when this has been achieved. Disconnect following the filling stations instructions. Note that a small escape of gas during this part of the process is normal and not dangerous as the pressure in the supply line is reduced.

For further information consult the tank manufacturer's instructions. No component within the tank system should be adjusted or altered by anyone other than a competent person with experience of LPG gas systems.

#### Changing the Gas bottle

**Make sure that all flames, fires, or sources of ignition (including cigarettes, pipes and pilot lights) before changing gas cylinders**

If your motorhome is fitted with a gas bottle you must change this when it is empty. Do this in a well ventilated area. To change the bottle, turn off all gas connections and the regulator found at the bottle. Turn off the gas on the bottle. Carefully unscrew the fitting on the top of the bottle and carefully remove. Prior to replacing the bottle check the condition of the fittings on the hose and on the cylinder valve. Make sure any washer is correctly orientated and free from damage. Make sure that the sealing faces are clean and free from debris. If any sign of damage is present contact the supplier, don't attempt to make the connection.

Replace with a new bottle, screw the fitting back to the top, ensuring this is tight use a spanner if applicable. Ensure that the hose is not subjected to stress. Slowly turn the gas on the bottle back on, if there is any sign of a leak such as the smell of gas, immediately turn the gas off again. Never use a naked flame to check. You can then turn the regulator and gas manifold taps back on. It may take a few minutes for the gas to pressure the system.

The storage locker has been designed for 4.5kg sized bottles. Always ensure that bottles are secured using the fittings provided in the upright position with the valve at the top. Make sure that the permanent ventilation included in the compartment is never obstructed.

Gas bottles should be disposed of at a gas safe site through a registered supplier.

### Gas circuit

The gas tank is equipped with a regulator that controls the supply of the pressurised LPG stored in the tank to the motorhome gas circuit at a value of 30mbar. This is a pressure which is suitable for the LPG consuming appliances within the motorhome. Bottles used to supply the system must be compatible with this. Take advice from the bottle supplier to ensure it is compatible with this system.

**Warning! Do not alter or change the regulator as this may cause the appliances to operate incorrectly and could lead to extremely dangerous malfunction or leaks.**

Gas is piped into the van to the manifold, which supplies all gas consuming appliances individually and includes shut off valves for each appliance. Make sure that you are fully aware of the valves location,



their operation and the identification of the correct valve with each appliance.

Example of gas manifold showing the left valve open and right valve closed.

If they do not operate with the usual ease, consult a competent person or Gas Safe engineer. They are not user serviceable.

### Gas safety

- Refer to all gas appliance instructions before use
- Never use the oven or hob for anything other than cooking. They must not be used as space heaters
- Never use portable gas appliances within your motorhome. They are dangerous and will use up fresh air supply and have not been accounted for in calculating ventilation area
- Never allow mandatory safety ventilation to become blocked or partially blocked (see ventilation in safety features section)
- Never use appliance without adequate ventilation as they consume a lot of fresh air through use
- If you smell gas, switch off all appliances, if possible shut all valves and exit your motorhome. Do not return until the source has been identified by a competent person or gas safe engineer
- Never use a match or naked flame to look for leaks
- Where practicable turn off appliances before bed, ideally at the cylinder valve
- Turn off cylinder valves when gas appliances are not in use

### Gas leaks

LPG is stored under pressure as a liquid. When pressure is released as a valve is opened it boils to form a gas. It is heavier than air and locates at low level in the event of a leak.

If you can smell LPG check that it is not escape from an unlit hob or oven. If you can tell the leak is from a cylinder valve consult a competent person to rectify. If it can't be stopped remove to a safe place in open air away from sources of ignition and any drains or culverts.

If you suspect a gas leak because of an abnormal smell of gas or alarm from detecting equipment turn off all manifolds to appliances; isolate supply control valve on tank; open all doors and windows, call gas safe engineer.

Do not operate any electrical circuits as these may cause a spark, igniting the gas.

### Fire safety

In the event of a fire: Get everyone out; turn off liquid fuel valve; Disconnect the mains electricity supply; Raise the alarm and call the fire brigade; Fight fire if safe to do so observing the limitations of the equipment provide or available. The use of the dry powder extinguisher is only recommended if any gas leak is stopped by closing the cylinder valve and the cylinder can be easily removed. Use water to cool tanks that can not be removed, and remove as soon as possible in accordance with gas leak procedure. DO NOT TAKE UNDUE RISKS. The van can be replaced, you can not.

### Motorhome awnings

The exit for the products of combustion from some gas appliances may be into the space covered by an awning. This is generally no cause for concern as this space is well ventilated. However if full room awnings are used and encompass the flues of gas consuming appliances you are responsible for ensuring that there is sufficient fresh air ventilation within the additional space.

### External BBQ point

Your motorhome may have been fitted with an external BBQ point which allows the on board LPG tank to supply your BBQ. This has a push-fit style connection and a separate isolator valve. Refer to your BBQ manufacturer's instructions to ensure that the component is suitable for use with this style of supply and gas pressure.

**Warning! The external LPG supply, to external supply plug-ins shall not be less than 0.3 bar and not greater than 0.5 bar.**

Never allow modification of electrical or LPG systems and appliances except by qualified persons. Care should be taken that any additional equipment or appliances are installed in accordance with the appliance/equipment manufacturer's instructions (e.g. air conditioning, satellite dish, bicycle rack, fuel cells).

# Fitted appliances & equipment

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In the interest of safety, replacement parts for an appliance shall conform to the appliance manufacturer's specifications and should be fitted by him or his authorized agent.

## Truma Combi heating system

Your motorhome is fitted with a Truma Combi unit to provide warm air heating for the habitation area and hot water on demand in the water circuit. It combines a gas powered heating element and an electrical element powered by the 230v connection. The controls for the Truma unit are fitted at the rear corner of the vehicle next to the rear doors.

The unit is controlled from the energy selection control and thermostat. It is an intelligent system that will switch to electric power only when the habitation area has reached the specified temperature and water stored in the boiler has been heated. This reduces the cost to you as the LPG burner is only used as required.

Warm air is taken from the units outlets to locations around the motorhome and exits through circular ducts with plastic covers. An interior temperature thermostat is fitted to control the output from the unit.

**Important:** Do not allow the outlets or the air intakes in the seat box to be obstructed. This will cause the Truma unit to overheat and the internally fitted safety cut-out will switch the unit off. When temperature has stabilised it should return to operation automatically.

Next to the Truma Combi burner unit is a frost control valve. It is important that this is used when experiencing low temperatures and storing your motorhome.

Inspect the flue at regular intervals throughout its length including the connections at each end, for signs of damage or splits. If any damage is present consult a competent person or Gas Safe engineer who will ensure the replacement conforms to relevant regulation.

For further information regarding the use of the Truma Combi unit, optimising the fuel used and servicing requirements please refer to the manufacturer's instruction manual.

**Warning! Ensure you have followed all the manufacturer's instructions regarding the use and protection of the system.**

The Truma Combi boiler has an ECE Regulation 122 heating systems approval which means it is suitable for use whilst the motorhome is in motion. All other gas equipment must be turned off when the vehicle is in motion. For safety ensure that the supply valves are shut to all other appliances prior to setting off.

For further information on how to operate the control panel, please see Truma You Tube video

[CP Plus Heating Panel - Truma Combi - YouTube](#)

**Warning! Before you enter a filling station turn the heater off and close the gas connection.**

### Combination oven

Your motorhome is fitted with a combination oven. Prior to use you must ensure that you have read and understood the instruction manual supplied and that all safety advice is followed to avoid risks to yourselves and the motorhome.

The oven uses gas as a fuel source supplied by your motorhomes gas circuit. Ensure that you have read the relevant section of this handbook prior to use.

Prior to removing hot items from the oven ensure that you protect the worktop as this may be damaged. Take extreme care when removing items as space is limited when compared to your domestic kitchen.

Make sure the oven door catch is engaged before moving your motorhome as it represents a risk to rear seated passengers (if rear travelling seats are fitted).

### Worktop mounted hob (if fitted)

There may be a three burner hob mounted in the worktop of your motorhome with adjoining sink. Prior to its use you must read the manufacturer's instructions and comply with all safety warnings. The hob uses gas as a fuel source supplied by your motorhomes gas circuit. Ensure that you have read the relevant section of this handbook prior to use.

**Warning! Never use the hob for anything other than heating food stuffs. You should ensure all burners are turned completely off when not in use.**

When turned on and ignited, the hob presents a naked flame. Ensure that there are no combustible materials within reach of the hob unit. You should check that pans used are suitable for use with this type of hob. When removing pans from the heat protect the worktop which may be damaged if pans are placed directly on it. The metal surface of the hob will retain heat after use. Do not touch it or you will risk injury.

Instructions regarding the use of the hob, safe ignition procedures and adjusting the heat provided are found within the manufacturer's manual. If naked flame is used ensure it is lit before turning the gas on.

### Refrigerator

The fridge fixed within your motorhome is capable of using 230v & 12v as available. It is fitted with an automatic energy selection function to use the most appropriate energy source. However the following situations must be observed:

- Pay particular attention to habitation battery condition if not using mains hook up and the vehicle engine is not running.

For information regarding selecting energy sources please refer to the manufacturer's operating manual. There are additional safety notices within this manual which must be observed.



For energy conservation purposes and especially whilst your motorhome is in motion the door catch must be engaged. The fridge is only suitable for the conservation of foodstuffs and must be used as such.

## **Microwave**

Your motorhome has been fitted with a microwave. The microwave is similar to most domestic microwaves, however before using please ensure you have read and understood the user manual supplied and that all safety advice is followed to avoid risks to yourselves and the motorhome.

## **Kitchen sink, bathroom sink and shower**

These three water outlets are connected to your motorhomes water circuit. All feature mixer taps which will automatically adjust the amount of hot water supplied from the boiler and the fresh water direct from the tank.

For the taps to function correctly the water pump must be switched on as described in the relevant section of this manual and fresh water must be available in the on board water tank. It is advisable to check the level of water within the waste water tank before use to ensure that there is adequate capacity. All of this is done using the control panel with instructions in the relevant section of this handbook.

To obtain hot water the Truma Combi boiler must be switched on and have been given time as instructed within the user manual to heat the water stored within it.

Take care to conserve water. There is a limited supply on board your motorhome and limited capacity within the waste water tank. Note that the toilet uses water from the fresh water tank to perform its flush function but this is held in a separate waste tank.

## **Electric flushing toilet**

The toilet fitted in the washroom of your motorhome incorporates an electric flush system utilising water from the fresh water tank and disposing it within the integral waste tank. Prior to use you should read the manufacturer's manual fully and understand the instructions within it. There are instructions for preparing your toilet for use which must be followed to avoid damage to the toilet and your motorhome.

When you have completed these instructions your toilet should be ready for use but it is worth checking the following for optimum operation:

- Check that the waste tank is correctly installed within the unit and that the external access hatch is shut and secured
- Check that the control panel is turned on to supply 12v power to the toilet
- Check that fresh water is available and that the water pump is turned on
- Check that the waste tank is not full observing the control panel on the toilet

Information on these features is within your toilet manufacturer's manual. Refer to the control panel section for instructions on the water pump and fresh water level.

When possible follow the instructions contained within the manufacturer's manual regarding emptying the toilet waste cassette. You must ensure that you are emptying the cassette into a suitable facility.

**Warning! Do not use household cleaning products on the toilet. These will damage the unit and stop it functioning correctly. Specialist cleaners are readily available as recommended by the toilet manufacturer.**

### Manual side step (if fitted)

The manual side step is operated by pulling a small tab on the underside of the step, this releases the lock and the step will pull out. To put away, simply push the step back towards the motorhome. There will be an audible 'click' when the step is locked into place.

### Electric side step (if fitted)

The electric side step is operated by pressing the lever button mounted to the left of your motorhome sliding door. Make sure that your legs are clear of the step prior to operation and that there are no other obstacles in its path. Note the step will not operate with the vehicle ignition turned on. Make sure that the step is fully extended before use.

**Warning! Check that the step is fully retracted prior to starting your motorhome to move away.**

The step is fitted with an electronic failsafe which should retract the step when the vehicle ignition is turned on. However it is your responsibility to ensure that the step is fully retracted prior to moving.

Dirt and frost risk fouling the steps running gear. Should dirt be present clear it out of the steps runners. If there is a risk that frost has got in the step heat before use to reduce the risk of the step jamming.

If the step will not retract through electrical malfunction:

- Remove the front plate of the step
- Remove the connection between the footboard and the arms
- Slide the step into the unit
- Reinstall the front plate

### Television aerial and television (if fitted)

Your motorhome has a roof mounted television aerial capable of receiving digital terrestrial TV signals. A 12v powered TV is fitted as well. At time of writing your TV license for your home address will cover the use of this TV. Check [www.tvlicensing.co.uk](http://www.tvlicensing.co.uk) for up to date information.

To make use of the TV the control panel must be switched on to provide 12v power. It may well be necessary to retune your TV when you have finished your journey as the nearest transmitter location may have changed.

For information regarding how to tune your TV and access its features please refer to the TV manufacturer's usage instructions.

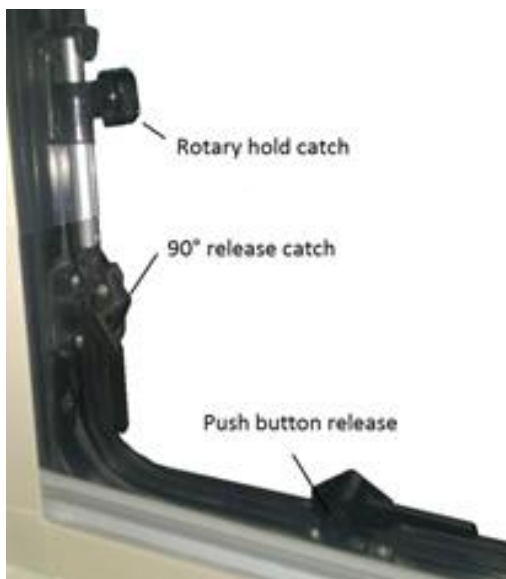
When you have finished watching your TV make sure that it is switched off to avoid additional load on your electrical circuits. Ensure that the TV is secured so that you do not overlook doing so prior to moving your motorhome.

### Windows, roof lights and blinds

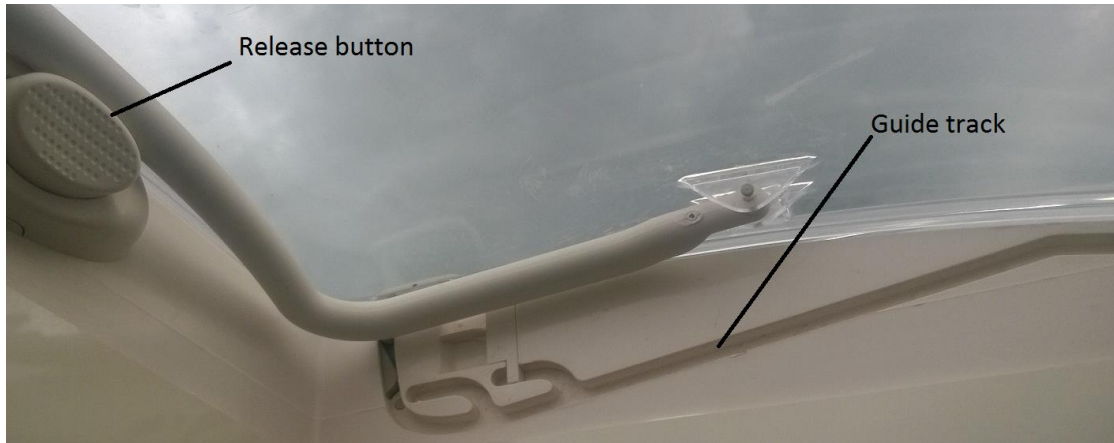
All the glazing fitted to your motorhome is type approved automotive safety glass. It has to meet strict criteria regarding their strength and breaking behaviour in the event of your motorhome being involved in a road traffic accident or being struck by objects.

Single glazed glass windows can be cared for and cleaned in the same manner as normal automotive windows. Care should be taken when cleaning the inside to avoid damaging the tint applied to the window.

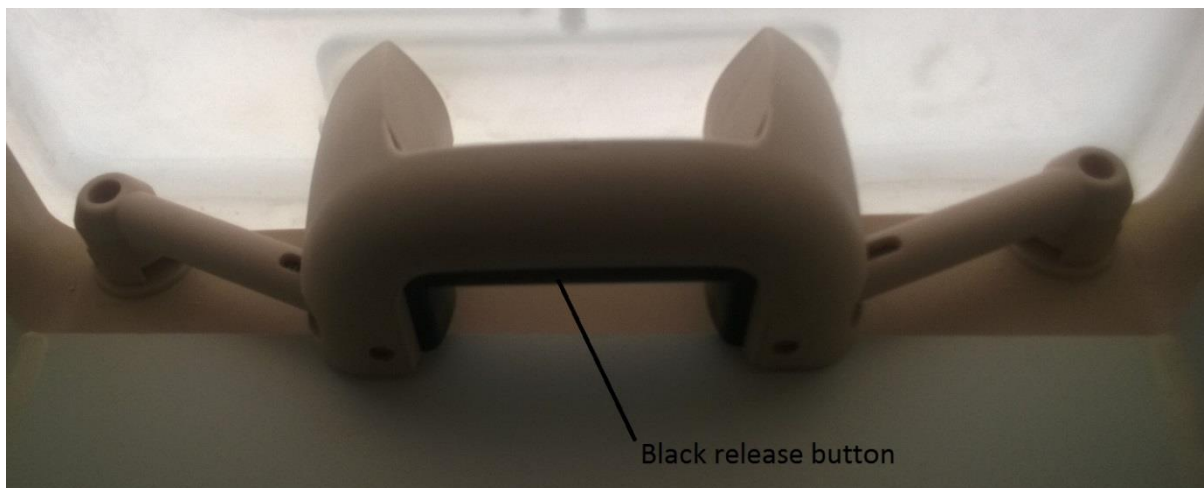
Double glazed windows are made from acrylic. Extra care must be taken when cleaning these as the material is more susceptible to scratches than glass. It is possible to open these windows by pushing the release catches and rotating the catches through 90°. Ensure all are opened fully prior to opening the window. The window should open easily when the catches are released, do not force them as this may damage the equipment. When open use the rotating catch to secure the window at the desired angle.



Roof vents open in different ways depending on their size. The square living area roof vent has a release button and handle to hinge the vent open. Locate the handle in the desired location on the guide track. To shut push the handle up until the release button clicks (as shown).



The washroom area roof vent is opened by squeezing the black handle inwards and lifting the cream handle. There is a matching handle on each side. The handle is spring loaded so that the roof vent is held shut or open, there is no adjustment.



If specified the rectangular roof vent is opened using the handle fitted within the surround. Use a finger to release the handle out of the surround to the position as shown. Rotate to lift open or close the roof vent. Replace the handle back in position within the surround to avoid a risk of injury or damage when you have finished adjusting the position of the roof vent.



**Warning! Ensure all windows and roof vents are closed with catches engaged prior to moving your motorhome.**

All roof lights have permanent ventilation built into them. This must not be obstructed as it forms the high level ventilation your motorhome requires to be used safely.

Windows fitted with cassette blinds have black out blinds and fly screens within them. These are adjusted by drawing the metallic strip across the window. They have friction stays; there is no catch to release.

The roof lights have similar black out blinds and fly screens built in. These can be drawn across to the desired position. The washroom roof vent has a fly screen fitted which can be opened by pulling on the handle hinged from the other side. It is replaced by pushing the retaining clips back into the vent surround.

Your motorhome may be fitted with cab blinds which consist of a pair of blinds which are drawn across the front windscreen and a blind in the drivers and passenger side window drawn from the rear. To operate, the blind must be released by pressing the two release catches. The pleated blind can then be carefully drawn across the window on the guide runners. A magnet within the leading edge of the blind is used to secure the blind.



Release catches by squeezing as shown

To close the blinds pull apart from the magnet and carefully push back into the frame. You must ensure that the release catch is fully engaged in the surround.

**Warning! Ensure cab blinds are safely secure before moving the motorhome so there is no risk of them obstructing the drivers view.**

### Captain seats

Your motorhome is fitted with Captain seats in the drivers and front passengers positions which can be rotated to face the rear of the vehicle when you arrive at site. This is done by pulling upwards on the catch beneath the seats and pushing the seat around. It is easiest to do this whilst seated in the seat. Before rotating the seat check that there is nothing obstructing the path of the seat or yourself.

It may be necessary to adjust the position of the seat and rake of the seat to enable the seat to pass the rear cab pillar and cab structure above the wind screen. Make sure you do this to avoid damaging the upholstery of the seat and trim within the cab.

Before starting your motorhome make sure both seats are properly located in the forward position. This can be felt as a significant click as the seat locks into position. Both seats must remain in the forward position at all times for your safety and security. The seat and seat belt will not offer effective protection if they are not locked in the forward position.

## Table

There are several locations for the table which will depend upon the layout your motorhome has been specified with.

The front table position for layouts incorporating additional travelling seats is attached using the rail mounted on the side of the van and the folding leg. To attach the table to the rail on the side of the van, slot the opposing rail on the end of the table into it and ensure the catches are engaged. The folding leg has a push button release which must be engaged. To remove the table lift and release the catches holding it to the rail.



The rear table position locates the table between the bench seats. The table is located here by placing the chrome tube into the socket mounted within your vehicle floor and then placing the table on top of the chrome tube within the socket mounted to the base of the table. From this position the table can be rotated to obtain access to each side of the bench seating.

In some layouts there is an additional table support rail mounted to the back of the kitchen unit exposed when the motorhome sliding door is opened. This can be used to mount the table on in the same method as the front table position. The folding leg can then be placed against the ground to give you an outside table. With this table position ensure that the table isn't exposed to wet weather as this risks damaging the component.

## Bed, Bunk Bed Assembly and safety nets

### **NOTE: MAX WEIGHT ON UPPER BUNK 100KG !**

Depending on the layout your motorhome has been specified with, you may have to adjust the rear bench seating to convert it into a suitable bed. To do this remove the upholstery from the bench seat on the drivers right side of the vehicle. This can be done by simply lifting the cushions aside, the attachment is Velcro so there is no catch to release.

Now visible should be the slatted bed frame. Pull this across the vehicle by lifting the front edge slightly so the feet clear the carpet. Ensure that the frame is pulled right across to the seat box on the other side of the van.

The mattress is made by turning the base cushions upside down and placing so the front edges meet in the middle. The back rests are then turned so the cushions fill the full width of the van. The bed can now be made as normal.

To assemble the bunk bed first remove the poles from their bag situated behind the passenger seat.



Inset poles into carriers either side of windows ensuring the white fixing are facing upwards and the pole with ladder clips are toward the inside of the vehicle.



White bunk pole fixings

Bunk boards must be fitted in correct order starting with RH OUTER FIRST, followed by RH INNER, LH INNER, LH OUTER. Boards must sit into the white fixings on the bunk poles.



When boards are in place insert mattress on top.



Attach ladder, ensure ladder clips into ladder brackets situated on the bunk poles see below. Use locking clip below right to ensure ladder is fixed in position.





To ensure safety of young children please attached bunk safety nets either side using the clips situated above both ends of the bunk poles. Children must be supervised at all times when using the upper bunks.



Safety Net Clips



## Bike rack

A bicycle rack can be fitted to your motorhome as an optional extra. You must ensure that you have read and understood all the instructions supplied with this to ensure safe usage of the rack and to minimise the risk to the van.

The weight of equipment carried by the rack must be accounted for when you are considering loading your motorhome, including the weight of the rack. This is given in the bicycle rack manufacturer's manual.

## Awning

A roof mounted colour matched awning is available as an optional extra for your motorhome. Before using this device you must ensure that you have read and understood the manufacturer's instructions relating to it. Make sure that the sliding door is shut prior to opening or closing the awning to reduce the risk of the awning catching the door.

**Warning! Ensure that the awning is completely retracted into its case prior to moving the motorhome.**

There is a position within your motorhome for storing the handle used to operate the awning. Make sure that this is clipped properly when not in use to avoid the risk of it falling and injuring you or damaging the interior of your motorhome.

If a safari room option is to be used with the awning make sure that adequate ventilation still remains when an LPG consuming fridge has been fitted. For more information read the gas connections section of this handbook. A gas powered space heater is not suitable for use in a safari room unless supplied with its own combustion air.

## Ladder Stowage

Ladders for the bunk can be found under the dual passenger seat, (see image below).



## Mattress Stowage

The mattress is stored above the driver and passenger. Ensure the mattress is fully inserted making sure none of the mattress is hanging out of the overhead compartment.



## Awning Handle

The awning handle can be found under the passenger side rear seat.

