



OWNER'S HANDBOOK
FRONTIER





Important

Your motorhome makes use of many complex systems and services. Please ensure that you have read all instruction manuals carefully, and fully understand all aspects of your vehicle, before driving it on the open road. If you have any queries on the operation of any part of your motorhome please contact your supplying dealer.

Useful Information

Please complete the details below:

Model: _____

Name: _____ Telephone: _____

Date Purchased:

Notes:

Supplying Dealer: _____

Sales Person: _____

Telephone Number:

--	--	--	--	--	--	--	--	--	--

Tyre Pressure:

Radio Code:

--	--	--	--	--

Exterior Door Key Number:

Water Filter Key Number:

Vehicle Build Number:



Useful Information

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Introduction

Auto-Trail welcomes you to the ranks of Auto-Trail owners.

This handbook has been designed to enable you to derive the maximum benefit and enjoyment from your motorhome; its information will be beneficial to experienced and new motorhomers alike.

Thank you for deciding to buy one of our motorhomes and welcome to the ranks of Auto-Trail owners.

This handbook has been designed to enable you to derive the maximum benefit from your motorhome; it's information will be beneficial to both experienced and new motorhomers alike.

The information contained in this handbook is intended to give you a general guide as to the care, use and maintenance of your vehicle. We would advise you to read all of the individual appliance instructions that will be found in the information wallet supplied with your vehicle prior to using them for the first time.

Your motorhome is designed to give many years of use as a leisure purpose vehicle. Regular maintenance however will not only ensure trouble free service, but will also enhance your vehicles value.

Your supplying dealer is responsible for all aspects of your customer care. We would suggest that you make a note of the dealers name and contact information in the dedicated space in the front of this handbook as this would speed up the process of answering any queries you may have. Should you require assistance, your supplying dealer is fully conversant with the correct procedures that should be followed to get any issues resolved in a timely manner.

For total piece of mind all Auto-Trail vehicles are supplied with a comprehensive warranty. Please ensure that your supplying dealer has fully explained all aspects of the terms and conditions of your vehicle warranty and the necessary servicing requirements.

Your vehicle should be supplied with two vehicle handbooks, the habitation handbook and the base vehicle handbook. Please refer to the base vehicle handbook for matters relating to the motorhome as a road going vehicle (e.g. lubricant levels, service intervals etc...).

Modifications To Your Vehicle

Please check with your supplying dealer before carrying out any modifications to your vehicle.

Any unauthorised modifications carried out by a third party could effect the terms of your warranty agreement.

We would always advise that you consult your dealer before any additional equipment is fitted to your vehicle to ensure the appropriate fixing support is available.

Never allow modifications of electrical or LPG systems and appliances except by qualified persons. Care should be taken to ensure that any additional equipment or appliances are installed with the appliance / equipment manufacturer's instructions.

Appliance Maintenance

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



Preparing for the Road

Loading Your Vehicle

All models manufactured by Auto-Trail are of a well balanced design, the most common causes of poor stability include:

- Poor weight distribution of the weight inside the vehicle.
- Incorrect tyre pressure (always adhere to the tyre pressures stated in the chassis manufacturers handbook. Always inflate to the 'fully laden' condition).

Try to load heavy items down near the floor of the vehicle, between the axles and as evenly as possible side to side.

We would recommend that the table is stored on the floor between the beds if there is no dedicated storage position.

Where a dedicated storage position is available, the table should be retained in this position whilst the vehicle is in motion.

Roof Rack (If Fitted)

Please be advised that the maximum recommended weight that should be carried on the roof rack is 40kg.

Please be aware that in certain conditions the fibreglass roof may become very slippery, please take extreme care should you choose to walk on the vehicle roof.

Bicycle Carrier (If Fitted)

Auto-Trail recommends that if a bicycle carrier is fitted to your vehicle it should be capable of carrying no more than two cycles.

The Frontier model is designed to accept a specific model of cycle carrier details of which are available through your supplying dealer.

Never exceed the maximum authorised weight that should be specified on the carrier.

Tow Bars

Auto-Trail only recommends the fitting of bespoke Witter tow-bars to our vehicles (where applicable). These are the only tow-bars that Auto-Trail have tested and obtained European Type Approval for. Should you choose to fit any other tow-bar it is your responsibility to ensure that you do not contravene any road traffic regulations.



Maximum Loading Of Your Vehicle

The weights of your vehicle are stated in the back of this handbook and on the secondary weight plate located in the engine bay of your vehicle.

The secondary weight plate gives the following information.

The serial number of your vehicle which should be quoted in any correspondence with your supplying dealer.

- The maximum authorised weight of your vehicle which must never be exceeded when the vehicle is loaded and in use.
- The gross train weight of your vehicle. This is the maximum combined weight of the actual Motorhome fully loaded to its maximum authorised weight, plus the allowance for a trailer. The weight of the loaded Motorhome and trailer must never exceed the gross train weight quoted on the weight plate.
- '1' is the maximum authorised weight for the individual front axle.
- '2' is the maximum authorised weight for the individual rear axle.
- '3' is the maximum authorised weight of the individual third axle (only used on twin rear axle models).

Please note that if you add both maximum authorised axle weights together it will normally give you a larger figure than the maximum authorised weight – please be aware that the Maximum Authorised Weight must never be exceeded.

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

Before You Set Off In Your Motorhome

- Ensure all articles are stowed securely. Do not store tins, bottles or heavy items in overhead lockers.
- Close and secure all lockers and cupboard doors.
- Secure all bunks.
- Close and secure all roof lights.
- Store main table in transit position.
- Ensure fridge is on 12V operation and set door lock.
- Close and latch all windows (never drive with windows on night settings).
- Leave all curtains and blinds open to aide visibility.
- Ensure leisure battery is secure.
- Ensure all gas appliances are turned off, that the gas bottles are correctly positioned.
- Ensure that seat swivels (if fitted) are locked in the forward facing position.
- Ensure entrance step is retracted.



External Features

A Exterior door retaining catch when open.

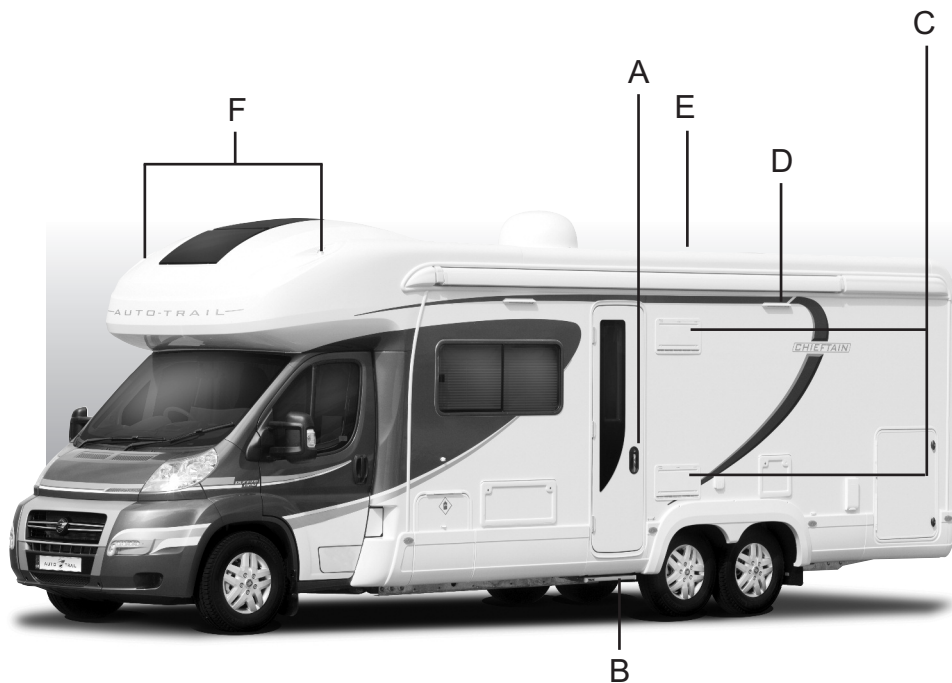
B Folding step.

C Fridge vents.

D Awning light (where fitted).

E Status T.V. aerial
(omni directional, where fitted).

F Front marker lights.



External Features

G Spare wheel (Frontier only).

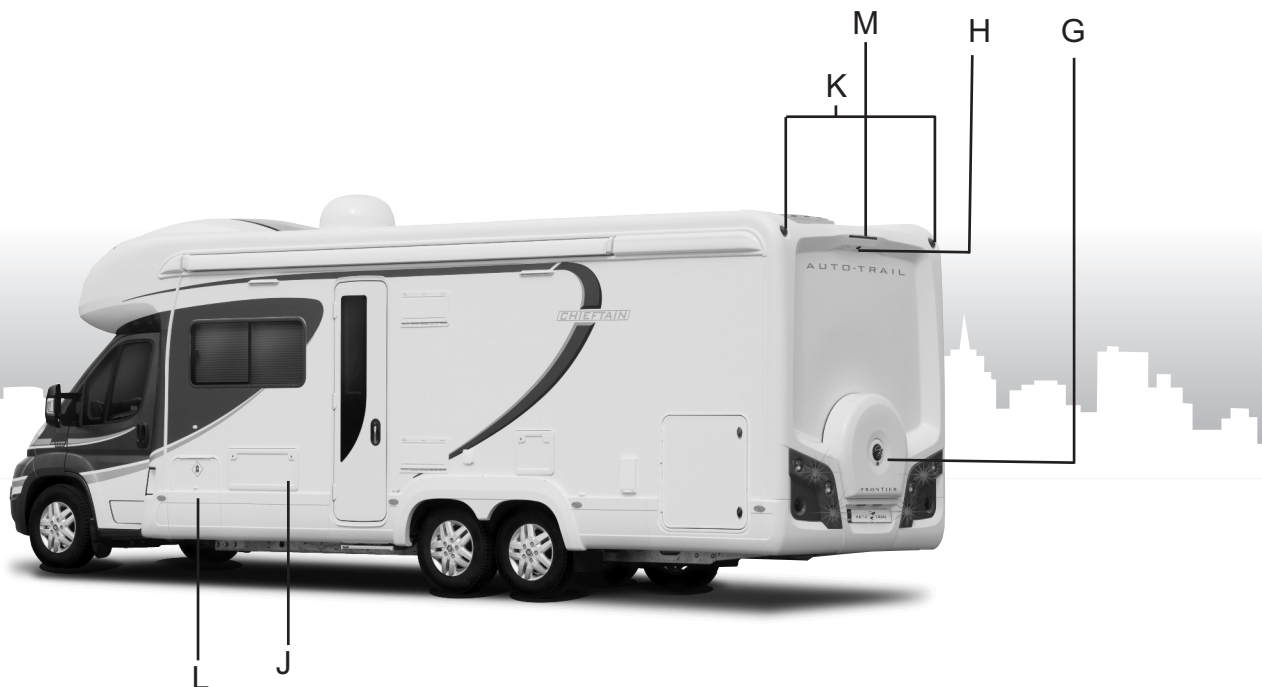
H External ladder.

J Lockable external access door to toilet waste tank.

K Rear marker lights.

L Lockable gas cylinder compartment (operated via an internal remote lever).

M High level brake light (where fitted).





Driving Your Motorhome

Driving Your Motorhome

Pulling Away

When pulling away in your Motorhome always operate the clutch smoothly, change gears smoothly and try not to jerk the clutch.

Motorhome Handling

Please remember that your Motorhome is much larger than a standard motor car when carrying out any manoeuvres.

- Allow longer to speed up when overtaking.
- Do not swing out suddenly.
- Carry out all manoeuvres as smoothly as possible.
- Use the nearside wing mirror to check Motorhome has cleared obstacle when overtaking.
- Do not bump the kerbs with the Motorhome wheels.
- Reduce speed accordingly in strong winds, going downhill or in poor visibility.
- Large high speed vehicles cause air buffeting, extra care must be taken when passing or being passed by a high sided vehicle.

Reversing

Proficiency at reversing can only be achieved with practice and we would recommend that you should first practice in a large open area. As well as this courses are run by many organisations.

Reversing Aid

Your vehicle may be fitted with a visual reversing aid. This aid is designed to assist a drivers attention only during reversing of the vehicle, they are not intended to replace a drivers self judgement. Auto-Trail will not accept any responsibility for any accident caused by a drivers negligence.

Changing A Wheel

- Ensure handbrake is fully applied and use wheel chocks (if necessary) to ensure the vehicle cannot move.
- Remove the wheel trims (if fitted). Use the wheel-brace to slacken off wheel nuts on the wheel to be changed.
- Position the jack under the axle or at the appropriate jacking point.
- Jack up the vehicle until the wheel to be changed is just off the ground.
- Remove the wheel nuts and wheel.
- Fit the spare wheel and reverse the above procedure.
- Tighten all nuts equally.

Alloy Wheels / Tyre Valves

It is vitally important that when you get replacement tyres fitted to your vehicle the valves that are used are capable of withstanding the high pressures associated with Motorhome tyres.

Usually only 'bolt through' steel type valves can withstand the high pressures associated with Motorhome tyres.

Driving Abroad

Please ensure that you are familiar with the relevant laws and regulations that apply in the countries in which you choose to travel.

Different mainland European countries have different laws and regulations and it is your responsibility to ensure that your vehicle complies with this regulations and that you drive within the law.

Vehicles fitted with Comfort - Matic gearbox

If the vehicle is at a standstill and a gear is engaged, keep the brake pedal pressed until you decide to set off. Then release the brake and accelerate gradually.

To safeguard clutch efficiency, do not use the accelerator to keep the vehicle at a standstill (e.g. parking on a hill); the clutch could be damaged by overheating. Use the brake pedal instead and operate the accelerator only when you are ready to set off.

During hill starts, accelerate gradually but fully after releasing the handbrake or brake pedal to allow the engine to increase its rpm to greater extent and

overcome the higher gradients with more torque. For more information on the Comfort – Matic gearbox please refer to the handbook supplied with your base vehicle.

Selecting A Pitch

Do not pitch in a position in which your vehicle will obstruct others coming in.

Try to choose an area that is dry, reasonably level and preferably with a hard base. If you have no alternative but to pitch on a slope, ensure that when you leave you are driving down the slope.

It is always good practice to chock the wheels of the Motorhome when parked on a slope or a slippery surface even when the brakes are applied.

In poor site conditions you are advised to try to keep engine revs as low as possible to try to avoid wheel spin and try to steer as straight as possible.

Levelling The Motorhome

Levelling of the Motorhome on your chosen pitch must be carried out in both directions for the refrigerator and other equipment to function correctly. Levelling the Motorhome should be carried out using proprietary levelling ramps, or boards.

Rear Corner Steadies

Your vehicle may be fitted with rear corner steadies which are used for stabilising your Motorhome when stationary. These steadies should never be used to lift the rear wheels off the ground, or as a jack.

Operation

Lower the corner steadies using the special brace supplied until they are in firm contact with the ground. Levelling pads or boards should be used when the ground is soft or uneven.

In extreme cases where it is necessary to raise a wheel off the ground for levelling purposes, further support should be applied so that the corner steadies do not take undue strain.

Please note that under no circumstances should the corner steadies be used to jack up the rear of the vehicle. Use a proprietary bottle jack or scissor jack that is capable of holding the weight of your fully loaded Motorhome.





Gas Services

The gas appliances in your vehicle are fed from a gas cylinder that is housed in a sealed cylinder compartment.

Gas flows from the gas bottles via a bulkhead mounted gas regulator. This regulator provides a working gas pressure of 30 m bar (1.5kg of gas per hour).

All appliances installed by Auto-Trail are designed to work within this pressure range.

Please ensure that any additional appliances, not fitted by Auto-Trail, are capable of working within this pressure.

Cylinder Compartment

Your vehicle is designed to accept either 15kg or 7kg gas cylinders, this is dependent on the model you have chosen.

The compartment is accessed via a door on the outside of the vehicle.

This door is secured by a remote cable release latch located behind the passenger seat inside the vehicle.

The Compartment has low level ventilation to ensure the safe operation of the cylinders and should not be obstructed in any way.

Also please ensure that any additional items stored in this compartment are secure and cannot damage any pipe work or fittings, or block the ventilation.

Connecting / Changing A Gas Cylinder

Before you can connect a gas cylinder to your vehicle you will have to obtain the correct type of high pressure hose for the type of bottle you have chosen (different European countries have different connections). This hose should be fitted to the bulkhead mounted gas regulator fitted inside your gas compartment.

- Extinguish any fire, flame or source of ignition before changing gas cylinders
- Carefully position the gas cylinders into the gas compartment locating the bottle into the retaining devices taking care not to damage any of the pipe work or fittings.
- Tighten the straps that will hold the cylinders firmly into the compartment.
- Connect the high pressure hose to the gas cylinder using a suitable tool. Please ensure that the high pressure hose is connected correctly before opening the cylinder valve.
- Close the empty cylinder valve

Gas Hoses

Your supplying dealer will advise on the correct type of high pressure hose to connect your gas cylinder to the pressure regulator.

This will depend on the type of gas cylinders you have chosen to carry in your vehicle.

Inspect flexible hoses regularly for deterioration and renew, as necessary with an approved type, in any case not later than the expiry date shown on the hose.

Any hose that shows signs of damage or splitting should be replaced immediately irrespective of its age.

Gas Safety Valves

Gas flows from the gas cylinder via a bulkhead mounted regulator to a set of safety shut off valves that supply each individual appliance in the vehicle.

The valves allow isolation of a single appliance without affecting the operation of other equipment.

Each valve has a symbol fixed to it that indicates which appliance it is supplying.

The location of the isolation valves varies from model to model, and depending on the layout some vehicles may have two individual sets of valves.

Please familiarise yourself with the location of these valves before using your vehicle for the first time.

Precautions - If a gas leak is suspected

- Turn off the gas supply at the cylinder using the isolation valve on top of the gas bottle.
- Never search using a match.
- Open all doors and windows to allow any gas to escape.
- LPG has been given a smell by the manufacturers to help with the detection of leaks – check that the gas is not escaping from an unlit appliance.
- Do not operate any electrical apparatus, especially light switches.
- If the leak is not obvious the Motorhome should be evacuated and qualified personnel consulted.
- Remember that gas is heavier than air and therefore sinks to the lowest point.
- Keep bottled gas containers outside and protect against frost. If storage inside is the only option then keep away from heat sources.

Externally Sited Cylinders

You are advised that gas cylinders should not be sited outside the vehicle and that gas hoses should never be extended to accommodate this. Hose lengths should be no more than 400mm (+50mm / -100mm).

If gas bottles are to be removed for a long period of time then care should be taken to ensure that debris cannot enter the gas system via the open pipe work.

En Route LPG heating

Your motorhome may be fitted with a special gas regulator and an 'en route' LPG heating system. When this heater is in use please ensure that all other gas appliances are isolated

Operating Instructions

- Open the cylinder valve
- Firmly press the hose rupture protection (green button) on the high pressure hose.

Warning

Please ensure that the gas system is only modified and maintained by competent persons.



Electrical Services

All Auto-Trail vehicles have both a 12V and 230V electrical system.

The 12V electrical system is supplied by a rechargeable leisure battery that is located in a dedicated battery compartment within the vehicle (locations of leisure batteries varies from model to model so please familiarise yourself with your battery location prior to using the vehicle for the first time).

The leisure battery is charged either by the vehicle alternator when the engine is running, or by the on board battery charger when the vehicle is connected to a suitable mains supply via the hook-up lead supplied with the vehicle.

Connection the mains supply also activates the 230V sockets as well as various mains appliances.

All Auto-Trail vehicles utilise a combined power supply unit (PSU) that contains the battery charger, 12V fuses, mains RCD (residual circuit breaker) and MCB's (miniature circuit breakers).

Please familiarise yourself with the location of the PSU unit prior to using the vehicle for the first time (individual specifications of PSU units will be described in more detail later in this section).

Connecting The Vehicle To A Mains Supply

Your Auto-Trail vehicle is supplied with an orange mains hook-up cable that will connect your Motorhome to a suitable power supply on site via the mains hook-up point on your Motorhome.

Mains hook-up points vary from model to model so please familiarise yourself with your particular location prior to using your vehicle for the first time.

Your Motorhome should only be connected to a supply that meets the requirements of BS7671.

The site warden will hold information regarding the suitability of supply.

- Locate the charger power switch on the PSU unit and switch to the 'OFF' position before connecting the mains supply.
- Connect the supplied hook-up cable (orange cable with blue connectors) to the Motorhome and then connect to the mains supply.
- Check the RCD operation by ensuring that the RCD is switched 'ON' (lever in up position). Press the 'TEST' button and confirm that the RCD is turned off (lever in 'DOWN' position).
- Switch the RCD back into the 'ON' position (lever in 'UP' position). If the button failed to operate the RCD seek professional advice from a qualified electrician.
- Check the polarity of the mains supply by locating the Reverse Polarity indicator and ensure that the indicator is not illuminated. If the indicator is illuminated seek advice from a professional electrician.
- Locate the MCB's within the PSU (adjacent to the RCD) and ensure they are all in the 'ON/UP' position. If any MCB's cannot be reset this could indicate a fault or an overloaded circuit.

- Locate the power switch on the PSU and turn to the 'ON' position. The switch will illuminate when turned on.

It is now safe to check the operation of the 12V and 230V equipment.

Overseas Connections

Connection to mains voltage overseas requires particular attention. Electricity supplies abroad may be of reverse polarity. The significance of this is that when an appliance is switched off, it may not be electrically isolated.

It is useful to check the polarity of the supply so that the connection can be made neutral to neutral and live to live as recommended. Your Auto-Trail, however, is fitted with a double pole circuit breaker. Check that all Motorhome equipment is set to accept the site supply prior to switching it on.

Please note that if too many appliances are in operation at one time, the MCB may trip. This is a safety measure. On some sites, the power is not sufficient to power all appliances. If in doubt, consult the site manager or warden.

PSU Courtesy Light

The cupboard in which the PSU is situated is equipped with a courtesy light that is activated when the cupboard door is opened. This light is supplied by the on board leisure battery of the vehicle when stationary. Should a fault occur on this circuit and the light fail, starting the engine will

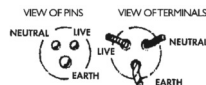
reconnect the light to the vehicle battery circuit to allow fuses and circuit breakers to be checked etc.

Wiring of connecting cable and Motorhome mains inlet:

Pitch outlet supply



Cable plug

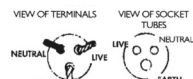


Flexible Wiring		Fixed Wiring
Brown	Live	Red
Blue	Neutral	Black
Green/Yellow	Earth	Green/Yellow

Cable coupler



Motorhome mains inlet



The cable plug is connected to the cable coupler by a 2.5mm flexible 3-core cable.

Warning:

It is essential that connections are made exactly as shown. If the terminal markings are not in accordance with the diagram, they must be ignored. If in doubt, consult a qualified electrician.

Generators

If a generator is fitted, the vehicle must be regularly serviced to achieve the optimum performance. Engine speed is used to govern the output and frequency of the unit in KW and Hz, and if this is allowed to vary beyond a safe level, permanent damage could be caused to certain electronic equipment such as 12V chargers etc.

IMPORTANT

Periodically, preferably not less than once a year, the Motorhome electrical installation should be inspected and tested. A report on the condition should be obtained as described in the Regulations for Electrical Installations, published by the Institute of Electrical Engineers. It is important that the main switch at the site point should be switched off, the supply flexible cable disconnected and any cover replaced on the socket outlet at the site supply point. It is dangerous to leave the supply flexible cable connected.

If a fault should develop with your electrical system that is not described in the 'fault table' and your supplying dealer cannot resolve the problem, Sargent Electrical Systems operate a telephone help line that is available during normal office hours.

Tel: 01482 678981



Leisure Battery / EC500 Power Supply Unit

Leisure Battery

Your vehicle is equipped with a rechargeable leisure battery that is located in a dedicated battery compartment within your vehicle.

Locations of leisure batteries vary from model to model, so please familiarise yourself with your battery location before using your vehicle for the first time. The battery is charged via the on board charging unit when the vehicle is plugged into a mains supply, or via the vehicle alternator whilst your Motorhome is being driven.

Connecting and disconnecting the battery

Please ensure that all cigarettes are extinguished before working in the auxiliary battery compartment.

Switch off all appliances and lamps before disconnecting the leisure battery.

- Release the battery securing bolts or securing straps from the leisure battery.
- Carefully remove the battery from the battery compartment (please take care – the leisure battery is extremely heavy).
- Release the battery terminals using a suitably sized spanner.

To refit the battery, simply reverse the above procedure.

Please ensure the battery is located safely and securely before driving your Motorhome.

Any replacement auxiliary battery shall be of the same type and specification as that originally fitted by the manufacturer.

EC500 PSU (Power Supply Unit)

Overview

The EC500 Power Supply Unit utilises a battery charger that supplies 12 volt DC power to run the leisure equipment and supply the leisure battery. It also houses the 12 volt DC fuses that protect the various 12 volt circuits, and the 230 volt RCD and MCB's that protect the various mains circuits.

Residual Current Device & Miniature Circuit Breakers

The Residual Current Device is provided to protect the user from a potentially lethal electric shock. The RCD will turn off (trip) if a fault occurs on the system. To ensure the RCD is working correctly, the test button should be operated each time the vehicle is connected to the mains supply.

The Miniature circuit breakers (MCB's) operate in a similar way to traditional fuses and are provided to protect the wiring from an overload or short circuit. If an overload occurs the MCB will switch off the supply. If this occurs the cause of the fault should be investigated before switching the MCB back on. Details of the MCB ratings and the circuits they protect are detailed in the back of this handbook.

12 Volt DC Fuses

These fuses are provided to protect the various 12 volt circuits from an overload or short circuit. If a fuse does blow, the cause of the fault should be investigated before a replacement is fitted. When replacing a fuse, always replace a fuse

with the correct value. Never replace with a higher value as this could damage the wiring harness. Details of fuse ratings are in the back of this handbook.

Shutdown Button

The shutdown button is used to turn off the system electronics when they are not required to save battery power. The unit should be turned 'off' (button out) when the vehicle is being put into storage or not being used for long periods of time.

Before using the system please ensure that the system shutdown button is in the 'on' position (button in).

Power Button

The Power button turns on the leisure power. Press the button once to turn on the 12 volt power – the LED will illuminate, press the button again to turn off the 12 volt power - the LED will go out.

The power button must be in the 'on' position for any of the 12 volt systems to operate.

Pump Button

The pump button turns on the 12 volt water pump circuit. Press the button once to turn on the water pump - the LED will illuminate, press the button again to turn off the pump – the LED will go out.

Light Button

The light button turns on the main internal 12 volt lights. Press the button once to turn on the main lights – the LED will illuminate, press the button again to turn the lights off – LED will go out.

Battery Select Button

This button allows you to select which battery is used as the power source for the vehicle, or which battery is being charged by the on board charging system if connected to the mains supply. The control panel will automatically select the leisure battery when the 12 volt system is turned on. The battery select button must be pressed to manually select the vehicle battery, the selected battery will be shown on the EC480 control panel.

Reverse Polarity Indicator

This light is designed to illuminate when the live and neutral mains input supply has been reversed (crossed over). If the light illuminates then there is a problem with either the site supply or the cable connecting the supply to your vehicle.

Please note that if you choose to use your vehicle with a generator this could also illuminate the reverse polarity indicator. This is a normal side effect when using some types generator and does not necessarily indicate a fault. Please refer to your generator handbook for further information.

Charger Button

The charger button turns on the internal battery charger that will charge the batteries and provide 12 volt power to the interior of the vehicle. The switch will illuminate when the switch is pushed in and the vehicle is connected to the mains supply.

Space Heater Switch

The space heater switch will isolate the mains supply to the space heater when the vehicle is plugged into a suitable 230 volt supply. Press the button once to turn the supply on – the button will stay in and the button will illuminate, press the button again to turn the supply off, the light will go out.

Water Heater Switch

The water heater switch will isolate the mains supply to the water heater when the vehicle is plugged into a suitable 230 volt supply. Press the button once to turn the supply on – the button will stay in and the button will illuminate, press the button again to turn the supply off, the light will go out.

Cautionary Note

Apart from the changing of fuses and the testing and resetting of the RCD and MCB's no maintenance is required on the PSU unit. If a problem develops with your unit please contact your supplying dealer or a qualified electrician.

EC480 Control Panel

EC480 Control Panel

The LCD control panel controls all of the on board 12 volt systems. The Panel is normally located over the entrance door.

Basic Controls of the EC480 Control Panel

Power Button

Use the power button to turn the 12 volt power on and off inside the vehicle. Pressing the button once will turn on the 12 volt power; pressing the button again to turn the power off. The adjacent LED will illuminate to indicate the power is turned on and the voltage of the selected battery will be displayed on the screen.

Pump Button

With the 12 volt power turned on, pressing this button will turn the water pump on and off. Pressing the button once will turn the water pump on; pressing it again will turn the pump off. The LED adjacent to the button will illuminate to indicate that the pump is turned on.

Light Button

With the 12 volt power turned on, pressing this button will turn on and off the main lighting inside the vehicle. Pressing the button once will turn the main lighting on; pressing it again will turn the lights off. The LED adjacent to the button will illuminate to indicate that the main lights are on.

Awning Light

With the 12 volt power turned on, pressing this button will turn on and off the exterior awning light. Pressing the button once will turn the light on; pressing it again will turn the light off. The LED adjacent to the button will illuminate to show that the awning light is turned on.



Light Dimming Button

With the 12 volt power and main lights turned on, pressing the dimming button will adjust the light level of the lights on the dimming circuit.

Battery Select

When the 12 volt power is turned on the leisure battery is automatically selected as the power source for the vehicle when no mains supply is present. If a mains supply is available then this is the battery that will be charged by the on board battery charger. Pressing the battery select button will change the selected battery from the leisure battery to the vehicle battery. The 'active' battery level is shown on the LCD screen – the letter 'L' indicates leisure battery, the letter 'V' indicates vehicle battery.

Frost protection button

If your vehicle is fitted with optional water tank heaters pressing this button will turn on the water tank heating system. The LED adjacent to the button will illuminate to indicate the tank heating system on.

LCD DISPLAY SCREENS

The LCD display screen is design to provide clear, easy to understand information of the condition of your on board vehicle services.

The Home Screen shows the Auto-Trail logo additional information displayed in the 'header' and 'footer' sections.

The 'header' area of the screen shows the following information:

At the left side the external temperature in degrees centigrade. At the right side the internal temperature in degrees centigrade. The centre shows the current time on 24 hour clock format. In addition the following symbols – when activated – indicate:

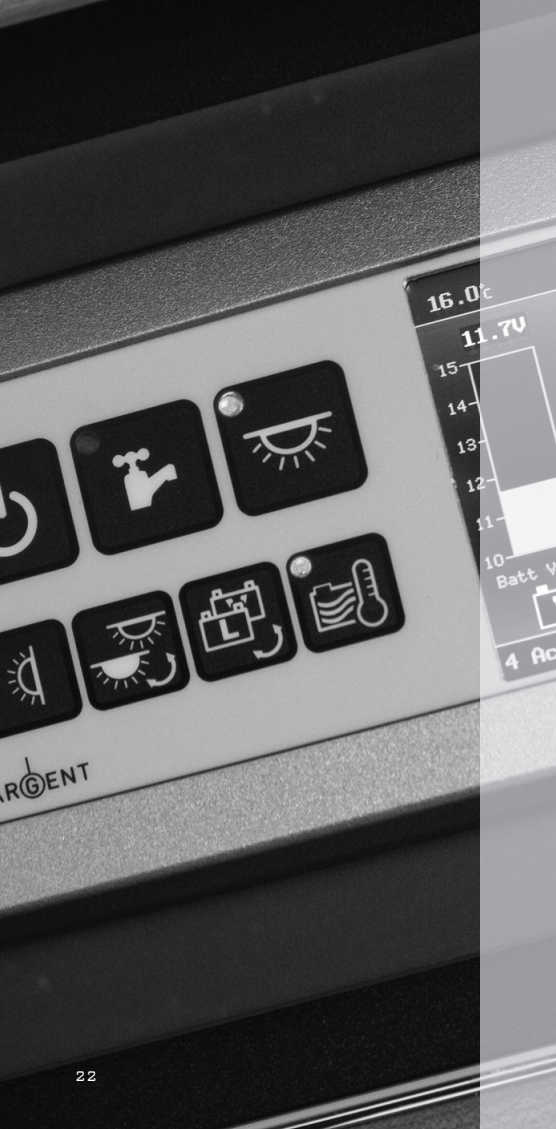
- The mains supply is connected to the vehicle and the charger is switched on.
- The alarm clock is set.
- The event timer is set.

The 'footer' section of the display shows details of the current screen been viewed.

The main information area of the screen can display a variety of system information screens. The selected screens may be changed by using the up and down scroll buttons, or may be changed automatically when certain function buttons are pressed on the control panel.



EC480 Control Panel



The System Levels Screen

This screen shows, from left to right; The vehicle battery voltage in a bar format with the precise reading shown at the top of the bar. The actual bar will change colour according to the battery voltage.

- Less than 10.9 volts will show red, indicating a poor battery condition.
- Between 10.9 volts to 11.8 volts will show yellow, indicating a battery in a fair condition.
- Between 11.9 volts to 14.4 volts will show green, indicating a battery in good condition.

The leisure battery voltage in a bar format with the precise reading shown at the top of the bar. The actual bar will change colour according to the battery voltage.

- Less than 10.9 volts will show red, indicating a poor battery condition.
- Between 10.9 volts to 11.8 volts will show yellow, indicating a battery in a fair condition.
- Between 11.9 volts to 14.4 volts will show green, indicating a battery in good condition.

The fresh water tank level gauge shows the level of the water in the fresh water tank with the precise reading shown at the top of the bar. The actual bar will change colour according to the water level in the tank.

- With the tank 25% full the display will show red.
- With the tank 50% full the display will show yellow.

- If the tank is over 75% full the display will show green.

The waste water tank level gauge shows the level of the water in the fresh water tank with the precise reading shown at the top of the bar. The actual bar will change colour according to the water level in the tank.

- With the tank 25% full the display will show green.
- With the tank 50% full the display will show yellow.
- If the tank is over 75% full the display will show red.

The Active Battery Screen

This screen is automatically selected when the battery select button is operated. The battery symbol on the bottom left of the display will contain the letter 'L' if the leisure battery is selected and a letter 'V' if the vehicle battery is selected.

This screen shows, from left to right;

The active battery voltage of the selected battery in a bar format with the precise reading shown at the top of the bar. The actual bar will change colour according to the battery voltage.

- Less than 10.9 volts will show red, indicating a poor battery condition.
- Between 10.9 volts to 11.8 volts will show yellow, indicating a battery in a fair condition.

- Between 11.9 volts to 14.4 volts will show green, indicating a battery in good condition.

The calculated Leisure Battery capacity as a percentage in 'amp hours' is shown when the leisure battery is selected. This gauge shows the predicted charge capacity of the battery, it will increase as the battery is charged and decrease as the battery is discharged.

The solar panel ammeter shows the current in amps that is being provided by the solar panel if fitted to the vehicle.

The battery ammeter shows the current in amps that is going into, or discharging from the selected or 'active' battery. A positive reading indicates that the battery is being charged and is shown by a green bar. A negative reading indicates that the battery is being discharged and is shown by a yellow bar - indicating a low discharge, or red indicating a high discharge.

System Warnings Screens

The system can display a number of warning screens that will beep and display the appropriate message. Pressing the 'select' button will cancel the warning.

Please note these are only the basic menu controls on the panel. More in depth information can be obtained by reading the full instruction manual supplied in the information wallet supplied with your vehicle.

Entertainment System

Your vehicle is fitted with a dashboard mounted entertainment system that incorporates a radio, CD or DVD player, digital television receiver and a satellite navigation system. It is also possible to link your blue tooth compatible mobile phone to the device to enable to use your telephone whilst driving. It also incorporates a night vision colour reversing camera to aide your reversing of the vehicle.

Images from the DVD player and digital television receiver can be viewed on the fold down 15" monitor.

For detailed instructions on how to use the entertainment system please refer to the separate instruction booklet supplied with your vehicle.

Note:

The reversing camera fitted to this vehicle should be treated as an aide to your reversing. Auto-Trail 'VR' Limited will not be held responsible for any accidents caused by driver carelessness.





Thetford Aspire Oven

Thetford Aspire Oven

The Thetford Aspire is fitted with three gas burners, one 230V hotplate and gas oven.

The gas burners are fully adjustable between simmer and full flame, and the oven ranges from 130°C to 240°C.

The electric hotplate has six temperature settings.

The oven, grill and burners operate off the on board LPG supply, the 230V electric hotplate can only be used when the vehicle is plugged into a 230V electrical supply.

Gas Operation

Before operating the appliance on gas ensure that the valve on the gas cylinder open and that the individual safety valve for the oven is open.

Hinged Glass Lid

Please note that the hinged glass lid must be in the upright 'OPEN' position whilst using the oven.

Please ensure that all burners and hotplates are turned off before closing the lid.



Using The Hotplate Gas Burners To Light

- Push in the control knob and rotate to the highest setting.
- Press the electronic igniter on the oven fascia to light the burner. If the burner has not lit within 15 seconds the control knob should be released and the burner left for at least 1 minute before a further attempt to light the burner is made.

To Turn OFF

- Turn the control knob until the line on the control knob is aligned with the dot on the control panel.
- Always ensure that the control knob is in the 'OFF' position when you have finished using the hotplate burners.

Using The Electric Hotplate

Before using the electric hotplate, ensure that the vehicle is plugged into a 230V electrical supply and that the isolation switch is in the 'ON' position.

Switching ON

- The hotplate control is numbered from 1 to 6.
- To turn it on rotate the knob either clockwise or anti clockwise to the required position.
- Position '1' is the coolest setting, position '6' is the hottest.

Switching OFF

To turn off the hotplate, rotate the knob until the line or pointer on the knob lines up with the zero on the control panel.

Using The Grill

To Light

- Open the grill door.
- Push in the control knob and turn to the highest setting.
- Press the electronic igniter on the oven fascia to light the grill burner. If the burner has not lit within 15 seconds the control knob should be released and the burner left for at least 1 minute before a further attempt to light the burner is made.

To Turn OFF

- Turn the control knob until the line on the control knob is aligned with the dot on the control panel.
- Always ensure that the knob is in the off position when you have finished grilling.

Using The Oven To Light

- Push in the control knob and turn to gas mark '9'.
- Press the igniter on the oven fascia to light the oven.
- If the burner has not lit within 15 seconds the control knob should be released and the burner left for at least 1 minute before a further attempt to light the burner is made.
- Set the control knob to the desired temperature setting.

To Turn OFF

To turn off the oven, rotate the knob until the line on the control knob is aligned with the dot on the control panel.

Note: Please use only the pan sizes that are recommended in the appliance operating instructions.

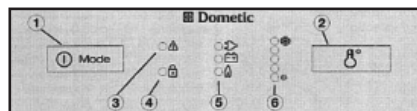
Do not remove pans from a lit burner without first extinguishing the flame.



Domestic RM8501 Refrigerator

Domestic RM8501 Refrigerator

These refrigerators are designed to be used on 230V, 12V (DC) or LPG.



- 1 Power On switch / Energy selector switch (MODE)
- 2 Temperature selection
- 3 Indicator LED failure
- 4 Indicator LED lock (optional)
- 5 Indicator LED / Operating mode display
- 6 Temperature level display

Switching On The Refrigerator

Pressing button '1' for 3 seconds will switch on the refrigerator, the operating mode LED will illuminate with the previously selected mode.

LPG Gas Operation

Before operating the appliance on gas ensure that the valve on the gas cylinder is open and that the individual isolation valve for the fridge is open.

- Press button '1' several times until the LED

adjacent to the 'gas' symbol illuminates.

- When the 'gas' led is illuminated ignition will take place automatically.
- Use the temperature selection button to adjust the refrigerator temperature which is indicated on the LED display.
- If the gas fails to ignite then the LED adjacent to the 'gas' indicator will flash indicating that there is a problem with the supply.

12V DC Operation

- Press button '1' several times until the LED adjacent to 'battery' symbol illuminates.
- Use the temperature selection button to adjust the refrigerator temperature which is indicated on the LED display.
- If the 12V power source is not available then the LED adjacent to the battery symbol will flash indicating that there is a problem with the supply.

230V Mains Operation

- Press button '1' several times until the LED adjacent to mains symbol illuminates.
- Use the temperature selection button to adjust the refrigerator temperature which is indicated on the LED display.
- If the 239V power source is not available then the LED adjacent to the mains symbol will flash to indicate that there is a fault with the supply.

Switching Off The Refrigerator

To switch off the refrigerator press and hold button '1' (MODE), the LEDs will go out and the refrigerator will be fully switched off.

Thetford N3175 Refrigerator

This refrigerator is designed to be used on 230V 12V (DC) or LPG gas.



5a On/off switch

5b Confirmation button

5c Arrow buttons

5d Symbols sources

5e Cooling level indicators

5f Symbol 'anti-condensation' (only for model B)

5g Symbol 'batteries empty' (optional extra)



Switching On The Refrigerator

To switch on the refrigerator, push the on/off switch and hold it for 1 second, as illustrated. A light in the on/off switch will turn green.

After 10 seconds the settings will dim. The green light indicates the refrigerator is still in function.

To check the settings push the on/off switch. The last selected settings will light up.

Selecting a Power Source



After switching on the refrigerator, push the confirmation button and hold it for 2 seconds. The symbols for the sources light up and start to blink.



Choose the desired source by pushing the arrow buttons.



Confirm your choice with the confirmation button

Power Sources



230V

The refrigerator is powered from the mains.



12V

The refrigerator is powered from the battery of your vehicle.



Gas

The refrigerator is powered from the gas connection of a gas bottle.

Selecting a cooling level



After switching on the refrigerator, push the confirmation button and hold it for 2 seconds.



The symbols for the sources start to blink. Push the confirmation button again.



The cooling level indicators start to blink. Use the arrow button to choose the desired cooling level.



Confirm your choice with the confirmation button.

Switching Off the Refrigerator



Before defrosting the refrigerator or storing your vehicle, switch off the refrigerator. Push the on/off switch, as illustrated, and hold it for 2 seconds to switch off the refrigerator. All lights will go out.

Truma S3002 Vehicle Space Heater

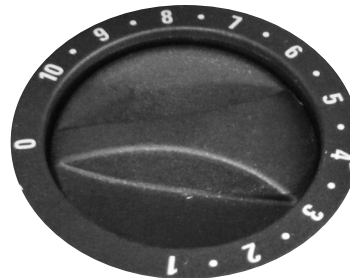
Vehicle Space Heater - Truma S3002

The S3002 heater incorporates a 3kw gas burner and a 2kw mains electric element (known as Ultraheat).

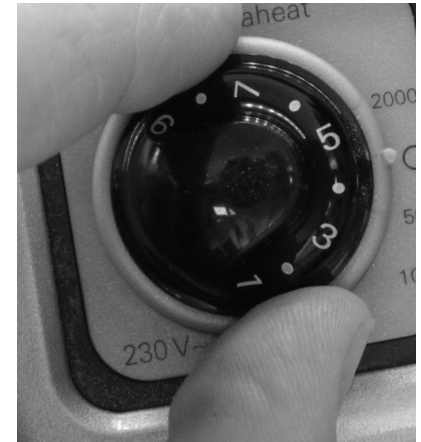
If the two energy sources are used simultaneously this gives a maximum heat output of 5kw. The heater also incorporates a 12V blown air heat distribution system that will deliver warm air through blown air ducts running throughout the vehicle.

Igniting The Heater

Before operating the heater for the first time ensure that the batteries are fitted to the ignition unit, and that the gas cylinder, and isolation valve are turned on.



- Turn on the control knob to the desired thermostat setting (from 1 to 10) and press down as far as the stop.
- Ignition will take place automatically until the flame ignites. Keep the control knob pressed down for a further ten seconds to allow the safety pilot to operate.
- If the flame should go out then automatic ignition will occur immediately during the closing time of the safety pilot (approximately 30 seconds). If there is no flame present the igniter will continue to operate until the control knob is switched to '0'.

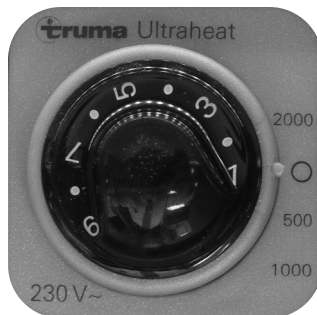


Truma Ultraheat - 230V Mains Operation

Before switching on ensure that the electrical fuse spur protecting the Ultraheat is in the ON position.

The position of this switch varies from model to model so please familiarise yourself with the location of this switch before using your vehicle for the first time.

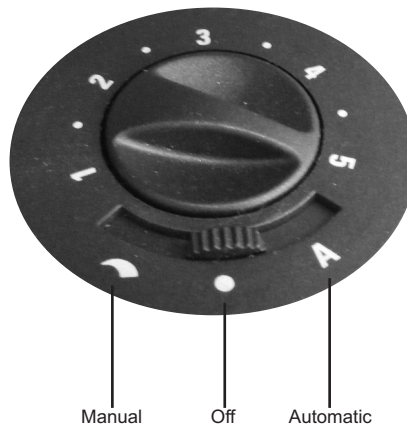
- To switch the unit on turn the rotary outer switch to the desired heat output level - 500W, 1000W or 2000W.
- Set the central thermostat knob to the desired room temperature (1 to 9). The actual setting of the thermostat must be determined individually depending on the heating requirements for each customer.
- To switch the unit off rotate the outer switch to the off ('0') position.



Trumavent Blown Air Heating System

The Trumavent Blown Air System distributes warm air through the blown air ducting throughout the vehicle.

- Set the rotary control on top of the S3002 to either manual or automatic setting.



- On the manual setting the speed of the blown air fan is controlled via the central control knob that gives settings from 1 to 5, (5 being the highest).

- On automatic setting the heat output is steadily adjusted to the respective heat emission from the heater. The maximum setting of the fan can be set by the central control knob and the output will vary between this value and the slow running setting.
- To turn off the blown air system rotate the outer control to the central OFF position.



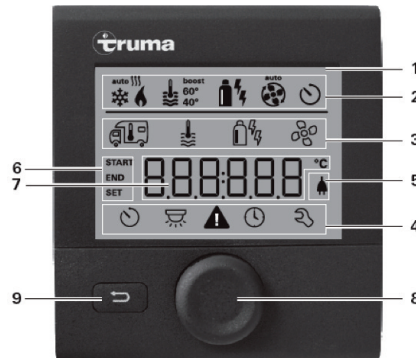
Truma Combi 4E / 6E

Truma Combi 4E / Truma Combi 6E

The Combi E Gas Heater is a warm air heater with an integrated hot water boiler. The unit can operate on liquid gas (LPG) or 230V mains electricity. The heater can be used in 'Winter' mode that will produce warm air heating and hot water, and 'summer' mode that will produce hot water only.

Before operating the heater for the first time ensure that the 12V system is turned 'ON' on the control panel over the doorway, and that the gas cylinder, and isolation valve are turned on. To use the heater on 230V the Motorhome must be plugged into the mains supply, with the isolation switch in the 'ON' position.

TRUMA CP PLUS CONTROL PANEL



1 = Display

2 = Status line

3 = Menu line (above)

4 = Menu line (below)

5 = Display of mains voltage 230 V (shore power)

6 = Display timer

7 = Settings / values

8 = Control knob / push

The control knob / push button (8) is used to select menus in the lines (3 + 4) and configure the settings. These are shown via a display (1) with a lighted background. Pressing the Back button (9) takes the user back out of the menu again.

Control knob / push button

The control knob / push button (8) is used to select and change set values and parameters; these can be saved by clicking the control knob / push button. Selected menu items will flash.



Turn to the right (+)

- Menu is paged from left to right.
- Increase values.

Turn to the left (-)

- Menu is paged from right to left.
- Reduce values.



Clicking

- Accept (save) a selected value.
- Select a menu item, change to the setting level.



Press (3 seconds)

- Main switch function ON/OFF

Back button

Pressing the Back button (9) takes the user back out of the menu again and discards the settings. This means that the previous values are retained.

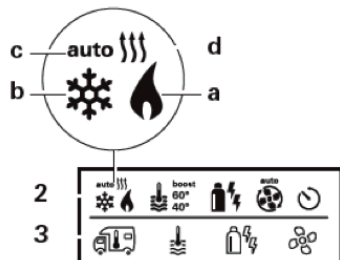
Change the room temperature

- Use the control knob / push button to select the symbol in menu line (3).
- Click to change to the setting level.
- Depending on the connected device, use the control knob / push button to select between the heater or air conditioning unit (please note the air conditioning unit is not a factory fitted option).
- Use the control knob / push button to select the required temperature.
- Click the control knob / push button to confirm the value.



Heater

Settable temperature range 5 - 30 °C (1 °C steps)
a = heater * – Heater is switched on.



Air conditioning unit (please note this is not a factory fitted option)

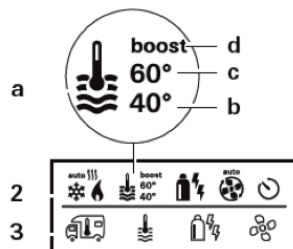
Settable temperature range 16 - 31 °C (1 °C steps)

- b = cool * – Air conditioning unit is switched on.
- c = auto – Air conditioning unit is set to automatic
- d = hot – Air conditioning unit is in heating mode.

* This symbol will flash until the required room temperature is reached.

Change the warm water level

- Use the control knob / push button to select the symbol in menu line (3).
- Click to change to the setting level.
- Use the control knob / push button to select the required level.
- Click the control knob / push button to confirm the value.



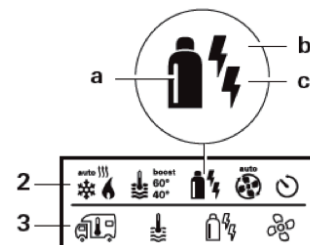
- a = Boiler * – Warm water boiler is switched on.
- b = 40° – Warm water temperature 40 °C
- c = 60° – Warm water temperature 60 °C
- d = boost * – Targeted, fast heating of the content

of the boiler (boiler priority). The water temperature is kept at the higher level (around 62 °C). Once the water temperature is reached, the room is heated again.

* This symbol will flash until the required water temperature is reached.

Select power type

- Use the control knob / push button to select the symbol in menu line (3).
- Click to change to the setting level.
- Use the control knob / push button to select the required power type.
- Click the control knob / push button to confirm the value.



Symbol Operating mode Power type

a	Gas / Diesel	Gas
b	EL 1	Electro
b + c	EL 2	Electro
a + b	Mix 1 *	Gas + Electro
a + b + c	Mix 2 *	Gas + Electro

* Mixed mode

Truma Combi 4E / 6E

Special aspects in the mixed mode

Interruption of the power supply 230 V Combi Gas The heater automatically switches to the gas mode. As soon as the 230 V power supply is reconnected, the heater automatically switches back to the mixed mode.

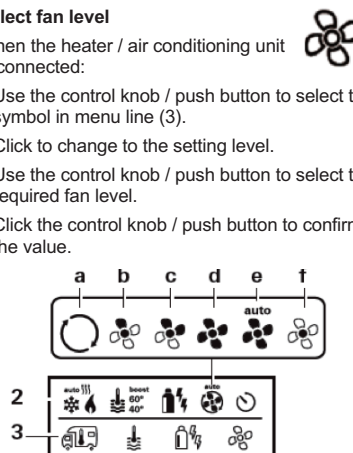
Malfunction in the combustion process (e.g. lack of fuel)

Combi Gas The heater automatically switches to the electro mode. If the heater should operate in the mixed mode again, the cause of the malfunction needs to be rectified. Switch the heater off and on again on the control panel.

Select fan level

When the heater / air conditioning unit is connected:

- Use the control knob / push button to select the symbol in menu line (3).
- Click to change to the setting level.
- Use the control knob / push button to select the required fan level.
- Click the control knob / push button to confirm the value.



Heater Combi

Symbol Operating mode Description

- | | | |
|---|------|---|
| — | Off | Fan is switched off. |
| a | Vent | Circulating air, if no device is in operation. 9 speed levels can be selected. |
| b | Eco | Low fan level. |
| c | Mid | High fan level (only Combi Gas). |
| d | High | Fast heating of the room. Available, if the difference between the selected and current room temperature is >10 °C. |

Set timer

- Use the control knob / push button to select the symbol in menu line (4).



- Click to change to the setting level.

If the timer is activated (ON), the timer in the menu is shown as deactivated (OFF).

Enter start time

Use the control knob / push button to set the hours, then the minutes.



Enter end time point

Use the control knob / push button to set the hours, then the minutes.



If the start / end times are exceeded when entered, the operating parameters are only taken into consideration when the next start / end times are reached. Until then, the operating

parameters set outside the timer remain valid.

Set the room temperature

- Click to change to the setting level.
- Use the control knob / push button to select the required room temperature.
- Click the control knob / push button to confirm the value.



Set the warm water level

- Click to change to the setting level.
- Use the control knob / push button to select the required warm water level.
- Click the control knob / push button to confirm the value.



Select power type

- Click to change to the setting level.
- Use the control knob / push button to select the power type.
- Click the control knob / push button to confirm the value.



Select fan level

- Click to change to the setting level.
- Use the control knob / push button to select the required fan level.
- Click the control knob / push button to confirm the value.



Activate the timer (ON)

- Click to change to the setting level.
- Use the control knob / push button to activate the timer (ON)
- Click the control knob / push button to confirm the value.



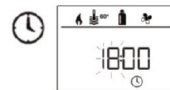
Deactivate the timer (OFF)

- Click to change to the setting level.
- Use the control knob / push button to deactivate the timer (OFF)
- Click the control knob / push button to confirm the value



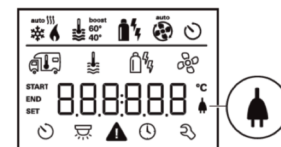
Set time

- The hour display flashes.
- Use the control knob / push button to set the hours (24 h mode).
- After clicking the control knob / push button again, the minute display will flash.
- Use the control knob / push button to set the minutes.
- Click the control knob / push button to confirm the value.



Display mains voltage 230 V

The symbol indicates that 230 V mains voltage (shore power) is available.



Filling The Unit With Water

- Ensure that the cold water drain tap is closed (lever should be in horizontal position – see draining the water system).
- Turn on the hot tap in either the bathroom or kitchen (if your vehicle is fitted with a mixer tap please set this to the 'hot' position).
- Switch on the water pump on the control panel over the doorway.
- Leave the tap open to let air escape from the water system while the tank is filling. The heater is full when water flows out of the tap.

For more detailed information on operating the Combi Boilers please refer to the Truma Appliance Instructions that can be found in your blue information wallet supplied with your vehicle.

Please note that when a space heater is used for the first time, or after a period of prolonged inactivity, it may smell slightly until any residual dust inside the heater has dissipated.



Truma Ultrastore Water Heater

Truma Ultrastore Water Heater

The Truma Ultrastore water heater has a 10 litre capacity that operates on either LPG, or where available, 230V electric.

Filling The Ultrastore With Water

Ensure that the cold water drain tap is closed - lever should be in horizontal position – see draining the water system.

- Turn on the hot tap in either the bathroom or kitchen - if your vehicle is fitted with a mixer tap please set this to the 'HOT' position.
- Switch on the water pump on the control panel over the doorway.
- Leave the tap open to let air escape from the water system while the tank is filling.
- The heater is full when water flows out of the tap.

Turning On The Ultrastore

Gas Operation

- Remove the external flue cover.
- Ensure the valve on the gas cylinder is in the open position and that the safety valve for the water heater is open.
- Select the required water temperature on the control panel (which is normally located over the entrance door) which is variable from 30° to 70° centigrade.

- Switch on the water heater with the external rotary switch – the green operation light will illuminate.

If for whatever reason the boiler does not light the green LED will turn red. If this happens switch off the appliance, wait 5 minutes then switch on again.

230V Operation

To use the water heater on 230V mains simply turn the clearly marked switch into the 'ON' position. The switch is clearly marked with an 'ULTRASTORE' label.

The position of this switch can vary from model to model so please familiarise yourself with the location of this switch before using your vehicle for the first time.

Please note, when the water heater is used on mains the temperature is fixed to approximately 70° centigrade, this is not adjustable.

Exterior BBQ

Your vehicle may be fitted with an external barbecue point that will allow you to use an LPG barbecue from the on board gas bottles.

The barbecue point is located behind a hinged flap, normally on the passenger side of the vehicle.

The exact location of the barbecue point varies from vehicle to vehicle so please familiarise yourself with its' location before using your vehicle for the first time.

The gas supply to the barbecue outlet can be stopped by an isolation valve located inside the vehicle (valve is clearly marked 'BBQ').

This safety valve enables the barbecue point to be isolated from the gas supply from inside the vehicle.

Hose Connection

Your vehicle will have been supplied with an adapter that must be fitted to a suitable length of approved low pressure gas hose. The other end of this hose should be connected to your chosen LPG barbecue.

Please note - the Motorhome works at a regulated gas pressure of 30m bar.

Please note all gas connections should only be undertaken by a competent person.

Connecting The Hose To The Vehicle

- Ensure the barbecue appliance is turned 'OFF' and the gas isolation tap inside the vehicle is turned 'ON'.
- Align the tabs on the barbecue connector to the corresponding slots in the socket in the side of the vehicle.
- Rotate the barbecue connector 90° as indicated on the connector, this will lock the connector into the side and start the gas flow to the barbecue.
- Use your barbecue as per your manufacturers' instructions.

Disconnecting The Barbecue From The Vehicle

- Ensure the barbecue is turned 'OFF'.
- Rotate the connector through 90° as indicated on the connector. This turning action will turn off the gas supply and allow the connector to be removed.





Flue Covers / Water Services

Flue Covers

The Refrigerator and Truma Ultrastore water heater fitted to your vehicle are supplied with flue covers that are designed to keep out water and debris if the vehicle is to be stood unused for any length of time.

The flue covers must be removed before the appliances are used as the covers will stop combustion air entering the appliance and the flue gasses escaping if left in place.

Refrigerator Flue Covers

The type of refrigerator fitted to your vehicle will determine the type of flue cover fitted.

There are two types of fastener; a 90° turn button that is operated either with a coin or screwdriver (fitted to Dometic appliances), or simply a clip-off cover that has two tabs that need to be released, again using a flat screwdriver (fitted to Thetford appliances).

Replacing the cover is a reversal of the above procedures.

Truma Ultrastore Flue Cover

The Ultrastore water heater flue cover is removed by pulling the bottom of the cover away from the vehicle.

This pulling action will unclip the cover from the bottom and allow it to rotate upwards to be released from the vehicle.

Replacing the cover is a reversal of the above procedure.

Water Services

Fresh Water Tank

Your vehicle has an on board fresh water tank that allows you to carry fresh water with you on your journey. This tank supplies all of the water systems inside your vehicle. The volume of the fresh water tank will vary depending on which model you have chosen.

Water is pumped from the on board tank by a self priming and cancelling automatic pump throughout the vehicle.

The pump is fitted with an in-line filter to ensure trouble free running. This must be cleaned periodically to ensure that there is no reduction in flow.

The pump automatically pressurises the water system to a pre-determined water pressure, when a tap is opened water flows from it and the pump switches on to maintain the pre-determined pressure.

When the tap is switched off the pump will continue running until the correct pressure in the system is reached, it will then shut down.

The pump circuit is controlled by the isolation switch on the control panel. **Always switch off the pump at the control panel when leaving the vehicle.**

Please note that if the pump runs on for more than 5-10 seconds after you have closed all the taps, it is possible that there could be a leak in the system. This should be checked immediately.

Filling The Fresh Water Tank

The tank is filled via a lockable water inlet on the outside of your vehicle.

This inlet is identified by a blue tap symbol adjacent to it, (either a blue label or a blue moulding on the filler itself).

The location of the water inlet will vary from vehicle to vehicle so please familiarise yourself with its location before using your vehicle for the first time.

Before attempting to fill your fresh water tank please ensure that the cold water drain tap inside the vehicle is in the closed position (see 'draining the water system' section).

To Fill

- Remove the cap and insert a suitable length of pipe.
- Connect the other end to a clean water supply.
- Fill the tank until either the water level gauge reads 100%, or until the tank begins to overflow.
- Remove the hose. Replace the cap, lock and remove the key.

Emptying the fresh water tank

Your freshwater tank will have at least one drainage tap located outside your vehicle (depending on the model it could have two drainage taps fitted – see "travel drain" section below).

To completely empty the freshwater tank simply rotate the drainage tap to the open position and the tank will empty.

Please note, use only food or drug quality pipe.

Travel Drain

Your vehicle may be fitted with a "travel drain" system. This secondary drain tap (which is be clearly labelled) allows you to empty the freshwater tank to a predetermined level (nominally 20 litres). Emptying the tank to this level gives you the capacity to carry additional equipment to your destination where that tank can be 'topped up' to its full capacity. If you chose not to use this feature then the tank can be filled to its 'full' capacity but you must adjust your carrying capacity accordingly to ensure the vehicle is not overloaded.

Waste Water Tank

All waste water (excluding the toilet) is piped into an onboard waste water tank located underneath your vehicle. The volume of the waste water tank will vary depending on which model you have chosen.

When the waste tank becomes full (which will be indicated by a visible and audible signal on control panel), the tank should be emptied via the drain valve on the outside of the vehicle over a suitable drainage point.

When the 'tank full' indicator sounds there will still be some capacity in the waste tank, but we would advise that it is emptied as soon as possible.





Thetford Cassette Toilet

Thetford Cassette Toilet

The toilet is made up of two parts: a permanently fixed toilet and a waste holding tank that is accessible from the outside.

The removable waste holding tank is located under the toilet and can be removed via an access door on the outside of the Motorhome.

Preparing For Use

- Remove the waste holding tank by pulling the safety catch upwards.
- Pull the waste holding tank outwards towards the stop. Tip it slightly and take out the tank completely.
- Place the tank upright and turn the emptying spout upwards.
- Remove the cap (which has a measuring cup inside) and pour into the tank the required quantity of Thetford toilet fluid. Add approximately 2 litres of water (enough to cover the bottom of the tank). Screw the measuring cap back onto the emptying spout and turn the spout back to its original position.
- Slide the holding tank back into its original position via the access door.
- Make sure that the waste holding tank is secured with the safety catch. Shut the access door and lock it.

In Use

- Rotate the toilet bowl to the desired position.
- The toilet may be used with the blade valve open or closed. To open the valve pull the valve handle under the bowl towards you. If the toilet is being used with the blade valve closed run some water into the bowl by pressing the 'FLUSH' button once.

The toilet is now ready for use.

- After use, open the blade valve (if it was closed) and press the 'FLUSH' button. Close the blade valve after flushing.

Emptying The Waste Holding Tank

The waste holding tank must be emptied, at the latest, when the warning lamp is lit but it is advisable to empty the tank earlier if possible.

Do not allow the holding tank to become too full.

- Ensure that the valve blade is closed. Open the access door outside the vehicle. Pull the safety catch upwards and remove the waste holding tank.
- Carry the tank by the handles to a normal toilet or to a legal waste disposal site. Place the waste holding tank upright and turn the emptying spout upwards.

- Remove the emptying spout cap. Hold the waste holding tank by the upper handle nearest to the emptying spout. Hold the rear handle with your other hand so that you can operate the vent plunger with your thumb. Keep the vent plunger pressed to ensure that the tank is emptied without splashing.

Please note that the vent plunger should only be pressed when the emptying spout is pointing downwards.

After emptying, flush the tank and clean the blade valve thoroughly with water. Replace the spout cap and slide the waste holding tank back into the toilet and close the door.



Exterior Shower

Your vehicle may be fitted with an exterior shower that uses water from the onboard water tank of your Motorhome.

This shower can be used for washing mud off; shoes, boots etc.

The location of the exterior shower will vary depending on the particular model that you have chosen.

Please familiarise yourself with the location of the connection before using your vehicle for the first time.

Connecting The Shower

The exterior shower hose supplied with your vehicle has the shower connector already fitted, no further connections are required.

- Lift the hinged cover on the outside of the vehicle to reveal the hose connection in the side of the vehicle.
- Align the tabs on the shower hose connector with the slots in the side of the vehicle and rotate in the direction shown on the actual hose connector. This rotating action turns on the water supply and allows the temperature to be adjusted to your exact requirements.
- The actual shower head has a release trigger to start the water flow. This trigger must be squeezed and held to use the shower. Releasing the trigger will stop the water flow from the hose.

Disconnecting The Shower

- Rotate the hose connector fixed into the side of the vehicle to the 'OFF' position. This will turn off the water supply and allow the hose to be removed from the vehicle.
- Close the hinged flap on the side of the vehicle.





Windows & Skylights

Windows & Blinds

Your vehicle is fitted with side windows to provide light and ventilation to your vehicle. The number of windows fitted will depend on the particular model that you have chosen.

All windows fitted to the habitation area of your motorhome are of acrylic construction and open either by means of a top hinge or a slide, depending on the location in the vehicle.

Top hung windows are opened by rotating the two catches 90° to release from the locking plate, the window will then hinge outwards on the top hinge. The window can be held in the open position by means of the locking collar on the telescopic arm. Sliding windows are opened by releasing the retaining catch and sliding the window in its track.

Please ensure all windows are fully closed and locked before driving your vehicle away.

Window Blinds

The habitation windows are fitted with spring loaded night blinds and fly screens. The fly screens pull down from the top of the blind, the night blinds pull up from the bottom.

Always ensure that the blinds are in the fully open position before driving your vehicle.

Skylights

Your vehicle is fitted with skylights in the ceiling to allow light and ventilation into the vehicle.

Opening the skylights

The clear transparent skylights are opened by folding out the winding handle in the inner frame and rotating anti clockwise to release the locking clamps. Continue winding anti clockwise and the glazed dome will hinge upwards to the desired amount.

Closing skylights

Rotate the winding handle clockwise until the glazed dome is fully closed. Line up the handle with the recess in the inner frame and fold the handle away.

Please ensure all skylights are fully closed and locked before driving your vehicle away.

Omnivent

The omnivent can be opened for additional ventilation by rotating the turn mechanism in a clockwise direction; the glazed dome will hinge open. Winding the mechanism anti clockwise will close the glazed dome.

Blinds & Fly screens

The clear skylights are fitted with night blinds and fly screens. The blinds and fly screens work independently of each other by pulling them across from the ends of the inner frame and clipping them together. The desired night blind or fly screen can then be fully drawn across the whole aperture.

Opening the blinds and fly screens is a reversal of the above procedure.

Please note that all pleated night blinds should not be left in the 'fully closed' position if the vehicle is being left in storage for any period of time.



Wind-Out Awning

Wind Out Awning

Your vehicle may be fitted with a wind out awning which, when extended, will provide a shaded area next to your Motorhome.

Operation

Winding Out The Awning

- Locate the winding handle into the socket on the left hand side of the awning.
- Turn the winding handle clockwise – the awning will start to open after approximately two turns.
- Continue winding. When the awning has extended to approximately 1 metre stop winding and lower the supporting legs from the awning and adjust the length of the legs until they come into contact with the ground.
- Continue unrolling the blind until it is fully extended.
- Adjust the height / position of the supporting legs to ensure that the blind fabric is taut and allowing water to run off in the event of rain – remove the winding handle.
- We would recommend that the support legs are pegged into the ground.
- On vehicles fitted with either the 4 metre or 4.5 metre awnings a central support rafter can be inserted between the awning case (fitted to the vehicle) and the awning fascia (the section that winds out) to add extra stability.

Winding In The Awning

- Remove the central support rafter if fitted.
- Insert the winding handle into the socket and turn anti clockwise – the awning will start to retract (the legs, if pegged into the ground, should be released).
- When the awing is retracted to within 1 metre of the vehicle the supporting legs can be folded back into the awning fascia.
- Continue winding anti clockwise until the awning snaps back fully into the awning box – continue winding slowly until the handle stops as this engages the locking mechanism of the awning.
- Remove the winding handle.

Please note that the awning is designed to be a sun shade and not as rain protection. The awning should be closed in the likelihood of high winds, storm, snow or heavy rain.



Awning Space LPG Appliance Exhaust

No danger is caused if the LPG exhaust from the refrigerator vents into an enclosed awning.

If totally enclosed, space heaters may produce enough exhaust fumes to pollute an enclosed awning to levels of discomfort.

In extreme cases carbon monoxide could build up to reach dangerous levels. You are advised to allow some additional ventilation when such appliances are in use.

Ventilation

Low level ventilation is provided via the entrance step well. High level ventilation is provided by sky lights located in the roof of your vehicle.

All ventilation complies with European Standards and vents should not be obstructed in any way as this could lead to insufficient fresh air.

If this occurs then the confined atmosphere can become deficient in oxygen which can lead to a build up of the highly dangerous gas carbon monoxide (Co). Carbon monoxide is colourless, odourless and tasteless and if allowed to build up will rapidly cause unconsciousness, and even death.

There is no danger providing all ventilation is not blocked in any way and all meshes are regularly cleaned using a vacuum cleaner.

Roof Mounted Flue Installations

All flue installations should be inspected for corrosion once a year throughout their length. If any sign of perforation is detected, the flue should be replaced. Ensure the replacement flue is of the correct type and that it is installed by an approved engineer.

Combustible Materials

Care should be taken when storing any combustible materials near any source of heat (e.g. space heater) as these surfaces can become very hot during use and any guards or grills may not give full protection, particularly to the young or elderly.

Portable Heaters

Never use portable cooking or heating appliances other than electric heaters that are not of the direct radiant type, to heat your vehicle as it can be a fire and asphyxiation hazard.

Under no circumstances should a cooking appliance be used for heating the vehicle.

Warning Notice: Portable or open flame heating equipment should not be used. If you have such equipment on board, consider very carefully whether the risks are worth it.

Please note that internal socket outlets should only be used with dedicated appliances.

No appliance should be used outside the Motorhome whilst connected to an internal socket.

Fire And Safety Precautions

In Case Of Fire

Please read all warning notices inside your Motorhome advising you on fire prevention, ventilation and what to do in the event of a fire.

If a fire should develop in your vehicle please observe the following;

- Get everybody out of the Motorhome as quickly as possible.
- Call the fire brigade.
- Turn off the gas bottle isolation valve if safe to do so.
- If possible and safe to do so, remove the gas cylinders and place some distance away from the vehicle.
- If it is an electrical fire, always turn off the supply as quickly as possible.
- Only tackle the fire only if you deem it safe to do so.

Fire Extinguisher

Your vehicle is fitted with a fire extinguisher for use in the event of an emergency.

The location of the fire extinguisher will vary from model to model so it is important that you familiarise yourself with its location before using your vehicle for the first time.

Please refer to the instructions printed on the actual extinguisher for guidance as to the correct use of the unit, and the maintenance schedule that should be adhered to.

Please ensure that you are confident as to the location and operation of the fire extinguisher before using the vehicle for the first time.



Security & Ventilation

Smoke Detectors

Your vehicle is fitted with a battery operated smoke alarm that will emit a loud pulsating tone should smoke be detected in your vehicle.

Operating The Smoke Alarm

Once the battery is connected a small indicator light (LED) positioned near the test button should flash approximately once every minute. This indicates that the alarm is operating normally.

Testing Your Smoke Alarm

It is recommended that you test your smoke alarm once a week to ensure the detector is working correctly.

- Push and hold the 'TEST' button for approximately 3 seconds.
- A loud pulsating alarm should sound to indicate the detector is functioning correctly.
- During the alarm test the LED indicator will flash quickly.

Maintaining Your Smoke Alarm

If the smoke alarm emits a short beep once a minute the battery is at the end of its life and should be replaced immediately, this low voltage warning will sound for approximately 7 days.

We would always recommend that the battery is replaced at least every 12 months to ensure correct operation. If the LED indicator does not flash every minute then the battery should be replaced immediately as this will indicate that the battery is completely flat.

Clean your smoke alarm regularly to prevent dust build up. This can be done using a vacuum cleaner with a brush attachment.

Carbon Monoxide alarm (If Fitted)

If your vehicle is fitted with a battery operated Carbon monoxide detector it will detect carbon monoxide in your motorhome if it should rise to dangerous levels and sound the alarm.

Operating the Carbon Monoxide alarm

Once the batteries are connected small power indicator light will flash green once a minute to indicate that the unit is receiving power from the batteries and is operational.

Testing the sounder, batteries and circuitry

Test the sounder, batteries and circuitry by pressing and holding the test / reset button for 1 second 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 batteries are providing power to the unit. This test for the sounder, and batteries should be performed weekly.

Maintaining your detector

- Test the sounder, batteries and circuitry of your detector once per week by pressing and holding the test / reset button for one second.
- Keep the detector free from dust by gently vacuuming with a soft brush
- We would recommend that you change the

batteries in your detector at least every 12 months to ensure correct operation. The unit continually checks the settings of its sensor and circuitry. If any of these settings are found to be incorrect or if the batteries have become low then the detector will emit a single audible chirp once per minute for up to 30 days. Important: This does not mean that the detector has detected carbon monoxide.

Note: The sensor used in the detector has a lifetime of seven years after activation. After this seven year period the entire unit should be replaced with a similar model.

Escape Paths

It is important that you do not block any escape paths or emergency exits with any obstructions that could hinder your escape in an emergency. Please familiarise yourself with the designated emergency exits in your vehicle before using it for the first time.

Children & Pets

Do not leave children or pets in an unattended Motorhome as they could be exposed to hazards that could cause an accident.

Upper Bunks

Use upper bunks for sleeping only, with protection against falling out in position. Care should be taken against the risk of falling out when this bunk is used by children.

We would advise that the upper bunks are not suitable for children under six years of age without supervision.

Security

At Auto-Trail we have tried to go further than any other Motorhome manufacturer to protect your investment. Make it difficult for the thieves by protecting your Motorhome and its contents. Always lock all doors and windows when leaving your vehicle, even if it is left for a short period of time.

Motorhome Theft

The theft of a Motorhome can occur in the most unlikely circumstances; from a motorway service area, or even from an owners' drive.

Make sure all windows and doors are secured even if only leaving the vehicle for a short time and we would advise that you do not leave valuables in easily visible positions inside the vehicle.

Habitation Door

The habitation door in your vehicle utilises a two point locking system that is operated either automatically by the vehicle central locking system, or manually by the door key. It can also be locked from the inside the vehicle by a locking tab.

Manually Locking The Habitation Door From Inside The Vehicle

To lock the habitation door from the inside simply push down the locking button on the inner door handle.

Manually Unlocking The Habitation Door From Inside The Vehicle

To unlock the door from the interior pull the release handle towards you. The locking button will spring out, the door will be unlocked and the door will open.

Manually Locking The Habitation Door From Outside The Vehicle

The habitation door can be locked from outside the vehicle using the habitation key.

Simply turn the key clockwise to engage the lock, return the key to the vertical position then withdraw the key.

Please note that locking the habitation door with the key will not activate the central locking to the vehicle cab doors.

Locking The Door With The Central Locking

Please refer to the Central Locking section.



Central Locking

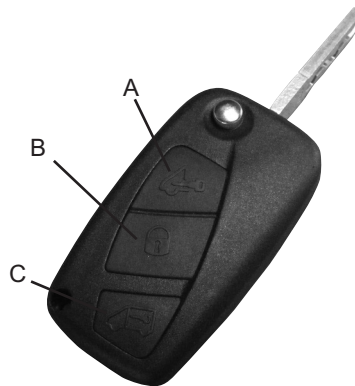
Central Locking

Your vehicle may be fitted with a central locking system that links the locking of the rear habitation door to the base vehicle cab doors.

The central locking can be activated by either the remote key fob, the locking switches on the dashboard (base vehicle dependant) or manually by the key.

Locking / Unlocking With The Remote Key-Fob

The Fiat key has three buttons that lock and unlock the various entrance doors on the vehicle.



- Pressing button 'A' will unlock the base vehicle cab doors only.

Please note that the habitation door lock will give an audible click, but will not unlock.

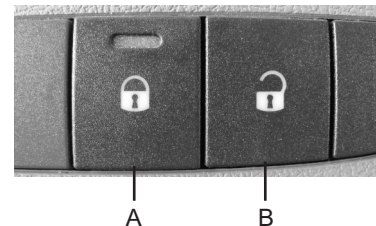
- Pressing button 'B' will lock both the base vehicle cab doors and the rear habitation door.
- Pressing button 'C' will unlock the rear habitation door only.

Please note that the base vehicle cab doors will give an audible click, but will not unlock.

Locking / Unlocking With The Dashboard Switches

When inside the vehicle the entrance doors can be locked or unlocked via the two switches on the Fiat dashboard.

- Pressing button 'A' will lock all entrance doors (and the LED will illuminate).
- Pressing button 'B' will unlock all entrance doors (LED will go out).



Locking / Unlocking With Either The Cab Key Or Habitation Key

Locking or unlocking the drivers' door will only lock or unlock the driver and passenger door, it will not lock or unlock the habitation door. This must be locked or unlocked independently using either the key or key fob.

Locking or unlocking the habitation door with the key will only lock or unlock the habitation door, the cab doors must be unlocked independently with either they key or key fob.

Entrance Step

Your vehicle may be fitted with an electric entrance step that is designed to assist you when entering and exiting your Motorhome.

The step can be operated automatically with the central locking system, or manually via a button located next to the habitation entrance door.

The step will automatically fold away when the engine starts to minimise the risk of injury when the vehicle is in motion.

Operating The Step Manually

The step is operated manually by depressing the step button located next to the habitation entrance door.

Pushing the button once will fold the step out, pressing it again will fold the step in.

Operating The Step With The Central Locking

- Unlocking either the cab doors or the habitation door with the remote key fob will fold the step out.
- Locking the doors with the remote key fob will fold the step in.
- Unlocking the vehicle from the internal dashboard switches will fold the step out.
- Locking the vehicle from the internal dashboard switches will fold the step in.

Please Note

Operating the central locking can also activate the electric entrance step.

Always ensure that the step is folded out fully before using it, and ensure that no person is standing on the step when the vehicle is locked, either by the key fob or when the engine is started.





General Care

Motorhome Exterior

The exterior of Auto-Trail Motorhomes are finished with a highly polished fibreglass skin.

This is a very durable surface and is very easy to clean due to its high gloss finish.

To maintain a showroom finish, wash the Motorhome regularly with a mild detergent, rinse off with cold water and leather off. A good quality car wax may be applied which will make washing even easier in the future.

Abrasive cleaning agents must never be used to clean the exterior of Auto-Trail Motorhomes.

Within the first twelve months cracks and blisters can appear in the surface of moulded GRP components. These are cosmetic only and have no effect on the vehicles structure.

These components can be readily repaired using the correct procedure (please refer this to your supplying dealer).

Mouldings

All mouldings are powder coated aluminium and will retain their colour and finish for a long time if no abrasive materials are used to clean them.

Care Of Windows

The windows in your vehicles are fully double glazed and with care will remain sparkling and scratch free.

Clean your windows as you would your car. Do not use a sponge on dirty windows. When all dirt has been removed, dry with a leather or 'Vyleda' type cloth. The catches and stays do not need lubricating.

Tar can be removed using a proprietary tar remover which is available from most car accessory shops.

Do not use petrol or other chemicals without approval.

It is a popular misconception that acrylic Motorhome windows are vacuum sealed, this is not so. The windows in a Motorhome can, as with domestic glazing, be susceptible to temporary condensation if the temperature difference between inside and outside changes quickly and / or dramatically i.e. if a cold Motorhome is heated quickly using the heater or by the sun.

These drastic changes of temperature and the moisture in the air both contribute towards the temporary condensation that will normally disappear as quickly as it appears.

This whole phenomenon is purely related to ambient temperature changes of the Motorhome compared to the window cavities.

Condensation

Condensation occurs when warm moist air meets a cold surface. The risk of condensation therefore depends upon how moist the air is and how cold the internal surfaces of the vehicle are.

Condensation is normally more noticeable during the winter months as the Motorhome is cold and because skylights, windows and doors are opened less meaning that the moist internal air cannot escape.

How to try to minimise the likelihood of condensation occurring

To try to minimise the risk of condensation occurring it is important to try to maintain some level of ventilation. Your vehicle complies with EN721: 1988 which states the minimum requirements for high and low level ventilation, it is very important that these are not blocked or reduced in any way.

Try to provide reasonable heating.

If possible use the electric element of the space heater when washing, cooking or drying damp clothes, particularly if the windows show signs of misting up.

Try to make sure all areas are at least partially heated, condensation most often occurs in unheated areas. To prevent condensation the heat has to keep the room surfaces reasonably warm.

It can take a long time for a cold Motorhome to warm up so it is better to have a small amount of heat for a long period rather than a lot of heat for a short time. A Motorhome that have been left unoccupied of long periods of time can become very cold. Whenever possible it is best to put the heating on at a low level before setting off on a journey in the winter to pre heat the vehicle.

Even in a well insulated Motorhome with correct ventilation it is likely during cold weather if the temperature is less than 10°C that condensation will occur. Ideally the temperature should be kept at about 20°C although this is not always possible.

Motorhome Interior Side Walls, Roof Lining and Furniture

A simple wash with a damp cloth and a mild detergent is all that is necessary.

Soft Furnishings

Carpets should be vacuumed occasionally to remove grit and sand. This helps maintain good appearance and ensure long life.

The upholstery can be cleaned with a mild reputable upholstery cleaner.

It is recommended that curtains be dry cleaned.

Leather Upholstery

As leather is 100% natural product, some variation in texture and grain may be evident in the seat covers of your vehicle.

Caring for Leather

Avoid exposing leather to direct sunlight for prolonged periods, and keep away from strong heat sources. Avoid your furniture getting damp, and clean any spills immediately. Sharp objects could tear, scratch and score leather.

Cleaning

Once a month, wipe with a damp cloth and dry thoroughly with a towel. Once a year (or as required) apply a leather cream as per the manufacturer's instructions to keep the leather supple.

Please Note

We do not recommend that you sleep on any leather covered upholstery, for this reason these beds have been fixed and will not pull-out.

Cupboard Catches

It is advisable to lightly oil cupboard catches, sliding bolts and hinges from time to time.

Vanity Unit / Shower Cubicle

Your vehicle is fitted with a plastic vanity bowl. Do not pour very hot water into it as it is made from a moulded polymer that may deform, always put cold water in first.

Care Of Plastic Components

The cleaning of any plastic components in the vehicle, e.g shower tray, should only be undertaken with mild soapy water. General household cleaning products should not be used as they may cause the plastic to go brittle and crack.

Auto-Trail will not be held responsible for any replacement if it is suspected that this was the case.

Plated Fittings

These should never be cleaned using abrasive cleaners. Clean with a damp cloth and polish with a dry cloth only.

Natural Wood Worktop Edges

Should your vehicle worktop edges show signs of the lacquer breaking down, they should be re-sealed using a proprietary yacht varnish, (or equivalent).



Winter Laying Up

Care should always be taken to ensure your investment is receiving the best attention, particularly prior to going into winter storage.

The following tips will be helpful for the periods when your Motorhome is not regularly used.

It applies if you store in a compound away from home, or in your own drive.

Tyres

Care should be taken to ensure that your vehicle is not stored with slightly deflated tyres as this could cause damage to the side walls that could lead to an accident when driving at speed.

Ideally you should rotate your wheels every couple of weeks to try to eliminate flat spots developing.

Water System

It is important that the water system is drained off during the winter months to avoid freezing when the Motorhome is not in use or after the last trip of the season. Failure to do this could result in serious damage to components.

To Drain Off

- Open the drain valve on the fresh water tank to ensure it is fully empty.
- Open the drain valve on the waste tank to ensure it is fully empty, (only drain into a suitable container).
- Open all taps inside the vehicle and leave open.
- Open the drain valve inside the vehicle to empty the water heater and empty the pipe work inside the vehicle.
- Allow the vehicle to drain in this way for five minutes, then run the pump to ensure it is free of water.
- Empty cassette toilet, (see manufacturers instructions).



Soft Furnishings / Furniture

Care should always be taken to ensure your investment is receiving the best attention, particularly prior to going into winter storage.

Leave all cupboard doors open to allow the maximum amount of air to circulate around the vehicle.

Window Blinds

Window night blinds should not be left in the 'closed' position for long periods as this may affect their folding back into the 'open' position.

Bringing Your Vehicle Out Of Storage

Before starting to use your Motorhome after a long storage period we would recommend that you have all gas and 230V electrical services checked by a competent person.

We would recommend that the water system is flushed through with a sterilising solution prior to the first use of the Motorhome.





Good Neighbour Guide

Motorhome Owners' Good Neighbour Code

At A Camp Site

On Arrival

Park as close to the reception area as possible and report your arrival.

Do not drive to a pitch and park unless directed by reception staff.

Vehicle Movement Around The Site

Always keep to the site roads unless directed otherwise. Obey the speed limits, these are generally 10 mph.

Please note that stopping distances on grass are greater than on a normal road. You must have a current valid driving license to drive a vehicle on site roads. Park where directed on your pitch. Where possible you should leave approximately 6m of free space around your vehicle.

Using Site Appliances

- Connect all mains hook-ups correctly and carefully.
- Turn off all fresh water taps completely.
- Use facilities such as toilets and showers with care and consideration, leaving them in a tidy condition.
- Young children should be escorted and supervised.

Disposing Of Waste

If your vehicle is not fitted with a waste water tank, place a suitable container under all waste water outlets.

- Do not allow these to overflow.
- Make sure you empty the containers at appropriate waste water points.
- Empty chemical toilets only where directed.
- Avoid damage to sewerage treatment works by using only approved chemicals. Phenols, coal tar or caustic based fluids must never be used under any circumstances.
- Solid bulky items such as disposable nappies etc. must not be put into the chemical closet emptying point or site rubbish bins. Wrap them in a polythene bag and place in designated containers.
- Household rubbish should be put into the private rubbish collection bins.

Noise Pollution

Please show consideration by thinking how the noise you create will affect those around you.

Open and close doors quietly.

Control noise made by your children: do not allow them to play with kites, model aircraft, catapults or airguns close to vehicles.

Do not allow them to play loud, boisterous ballgames.

Keep volume turned down on CD players, personal stereos radios and TVs. Do not play musical instruments so loudly that they will upset your neighbours.

If you have a power generator, make sure it is adequately silenced and use it with consideration, especially after dark.

Pets

Most site operators do not object to well behaved pets but they should be kept well under control.

- No animal should be allowed to run loose on the site.
- Leads must be no longer than 3m.
- Animals are not allowed in the shower or toilet blocks.
- Dogs must not be allowed to foul sites, roads or green areas.
- Carry a small spade and a supply of plastic bags in your Motorhome in order to clean up any mess made by your dog. It is then possible to dispose of it in an appropriate manner.

Fire Precautions

Read all fire precaution notices and make sure that you and your family are familiar with the locations of hoses, extinguishers and assembly points.

A fire blanket is a good idea for the kitchen.

Barbecues should not be used unless permission has been given. If you are allowed to use a barbecue, use it with care and consideration for those around you.

Open fires are not allowed on campsites.

Tents And Awnings

It is polite to ask permission before erecting a tent or awning. Permission will normally be granted if the tent is of a recognised standard make and in good condition.

If the stay is longer than a day or two the groundsheet and/or side flaps of the awning should be lifted to avoid unsightly patches or damage to the grass.

Leaving The Site

Always tidy your pitch and make sure you do not leave bags of rubbish lying about. Check out at reception, pay your site fees and thank them for an enjoyable stay.

Wild Camping

Camping on a non-licensed site without the permission of the landowner is illegal in the UK.

If you do have permission to camp on an unlicensed site, always follow the advice in the code.

Pay particular attention to the following points:

- Dispose of litter only in receptacles provided for the purpose. If there are none, put litter in plastic bags and take it away with you to dispose of in an appropriate manner.
- Control the water waste from your Motorhome, do not let it run onto the ground.
- Chemical toilets must only be emptied in an appropriate waste point.
- Do not hang washing or similar items outside your vehicle.

- Do not allow children to climb on fences or walls. Damage to these may allow farm animals to stray into the wrong field.

Parking

You should only park your vehicle in an approved place and during the permitted times. Do not use any of your facilities such as cooking or washing in a way that may cause annoyance or inconvenience to those around you.

User Manuals

Before using your Motorhome for the first time, and at the beginning of each season, read and follow the advice given by the manufacturer and appliance manufacturers in their user handbooks.

Protecting The Environment

Always behave and, encourage children to behave, in a manner that protects the environment and other people's property.

Please read and follow the advice contained in the country code and the coastal code.

After many years of use you may decide that your vehicle has reached the end of its useful life and should be disposed of.

Please ensure that you comply with the end of life vehicle legislation and take it to an authorised treatment facility who will deal with it properly to minimise any environmental impact.



Annual Check List

Auto-Trail Motorhome Annual Checklist

Introduction

It makes good sense to check over your Motorhome at least every year.

If you tend not to use it much during the winter months, check it over before storing it. Any defect, repairs or adjustments can then be made without rushing. At the start of the new season, check and clean the Motorhome inside and out, lubricate and top up any systems that may have been missed in the autumn and get ready to enjoy another year of fantastic holidays and weekends away.

1. Body Mounting

Body to Chassis

Examine all fixings holding the body to the chassis. These may be direct connections or via sub frame. Check that all fixings are present and tight.

Body to Cab

Examine the joint between the body and the cab for any signs of movement. Check that the sealing media are sound.

Body Retention (de-mountables)

Check that the body retaining gear is serviceable

and tight. Check that the body support struts are serviceable and tight.

2. Windows

Window Fitments and Operation

Check that the window glazing rubber or seal is in good condition and that there is no sign of deterioration or cracking. Check that the windows open and close easily and smoothly. On top hung windows ensure that the fixing of the top hinge rail is satisfactory. Check that there is a good weather seal when the window is closed and latched. Ensure all catches and stays operate satisfactorily. Repair or replace any defective parts.

3. External Doors

Security

Check hinges and catches for satisfactory operation and ensure that the doors are held securely shut when latched. Check that keys and internal latches lock the doors properly. Check that any device designed to hold the door in an open position is fitted correctly and operates positively.

Seals

Ensure that the door seals are in good general condition and are free from cracking and other signs of deterioration. Check that when the door is closed it provides a weather tight seal.

4. Internal Doors

Security

Check that the hinges and catches are in good condition and operate properly. Ensure that the doors are securely shut when latched.

Safety

Check that any device to hold door closed can be operated from both sides of the door to enable it to be opened in an emergency.

5. Chassis or Under-Body Attachments

Corner Steadies

Check that the attachments to the chassis are reliable. Make sure that the steadies work smoothly and do not wobble when in extended position. Lubricate the screws.

Folding Step

Check the step pivots for satisfactory operation or signs of wear. Check that the retaining mechanisms holds the step securely when closed. If a warning light is fitted, check that the switch is working.

Under-Floor Water Tank Mountings

Check that the mounting frames are fixed securely to the body. Check that any tank release fastenings are free from rust and corrosion and they operate smoothly. If necessary, remove rust with a wire

brush, treat with a rust inhibiting solution and lubricate joints.

Spare Wheel

Remove spare wheel and check for damage. Check tyre pressure. Check that the mounting is securely attached to the body. Check for satisfactory spare wheel retention.

Wheelboxes

Check for damage, corrosion, water seepage, or signs of tyre rubbing.

6. Attachments to Body Exterior

Skylights

Check the general condition, security and that the sealing has not deteriorated.

Roof Racks and Ladders

Check general condition and that they are securely attached to the body. Check roof for signs of damage around the rack.

Mouldings and Trims

Check the security of fixings. Check the seals have not deteriorated.

Flue Terminals and Air Vents

Make sure that these are not blocked. Check the security of the fixings. Check the seals have not deteriorated.

7. Internal

Body Seepage

Examine for signs of moisture staining in areas under windows, sides of roof and in corners which might indicate water seepage. Use a moisture meter if unsure.

Furniture

Check that all furniture is securely fixed. Make sure that the door hinges, catches and stays operate smoothly.

Dinette Seat and Beds

Check seat bases for signs of damage and ensure fixings are secure. Make up the beds according to the manufacturer's instructions and check for rigidity and safety.

Curtains, Blinds and Nets

Check that the tracks are secure and without movement. Check that the curtains draw freely without snagging. Check the operation of the blinds and/or nets. Check the fly screens in the skylights and air vents.



Annual Check List

Cab Seats

Where cab seats form part of the living area and/or bed layout, check that they are attached securely. Make sure that the seat slides, swivels and seat backs operate smoothly and easily.

Fire Extinguisher

Check the condition and the expiry date. If the date has expired or the extinguisher is partly exhausted, replace.

8. Gas Systems

Cylinders and Regulators

Check the compatibility of cylinders and regulators.

Ensure that your regulator controls the gas to the correct pressure for the type of cylinder in use. Check that the air vents and gas drain hole in the floor of the cylinder compartment are free from obstruction. Check that the seals on all the internal doors are in good condition and fit properly.

Hosing and Piping

Check flexible hoses for cracking and condition. Check the date stamped on them has not passed. If the expiry date is close or passed, have the hoses replaced. Check all rigid piping for adequate support and any damage.

Appliances

As a guide checking the gas appliances can be summarised as follows:

- **Cleaning:** Where appropriate, remove cover(s) to gain access to exchanger. Remove any build up of fluff or other foreign matter. Re-assemble and test operation. Clean flame-viewing window.
- **Operation of controls:** Check all knobs etc are secure on their spindles and that they work smoothly. Check that the appliance works properly by using normal controls without forcing. If the gas taps are stiff to operate, ease them open with an approved LPG grease.

Flame Structure

- **Pilot flames** should burn quietly and cleanly.
- **Refrigerator:** When the fridge gas control is turned to maximum the flame colour should be predominantly blue.
- **Water heater:** The main burner should burn blue and of even height.
- **Ovens:** Flames should be of even height and burn quietly. The colour should be mainly blue/green but there will be yellow tips to the flames as the burner heats up.
- **Grill burners:** Flames may develop yellow tips as they heat up, especially when using butane.

- General comments: A flame lifting away from the burner indicates that the pressure is too high. A yellow flame causes sooting and indicates the pressure is too low. If these faults occur, recheck the regulator, cylinders and pipes, adjust as necessary.
- Flues: Check security of fixings, attachments to appliances and flue terminals. Check for damage and corrosion. Check for gas leakage into the vehicle.
- Flame failure device (FFD): Check for satisfactory operation by the following method: after the appliance has been checked, allow time for the thermocouple to cool. Try to relight the appliance by turning it on without pushing the gas control knob in. If the appliance does not light the FFD is working.
- Security: Check that all appliances are securely fixed to the vehicle/ furniture and that no 'play' is present. Where applicable check that the water pipes are properly attached and there are no signs of leaks.

9. Water System

Before operating the water system, check the following items visually for signs of leakage.

Fresh Water Tank/Container

Check condition. Fill tank and check for leaks. Check external filler and filler pipe to tank. Check venting. Check presence and condition of filler cap.

Waste Water Tank

Check that the drain tap is clear and working properly. Make sure that the drain hose is present and in good condition.

Pump Filter

When applicable, remove filter, clean and replace. Check the in-line pump for security of fixing and condition. Check that the pump inlets and outlets are clear and not obstructed. Check security of fixing and condition of delivery hose and electric cable.

System Check

Operate the pump and check all piping for leaks. Operate all taps and shower. If a hot water system is fitted, it can be checked for leaks using cold water.

Please note aerated water from a tap could be caused by a leak on the suction side of the pump.

Waste Water System

Allow water to run through drain pipes: check for leaks and satisfactory draining from sinks etc.

- Couplings and fluids: Avoid confusion by making sure proper markings are used: Blue for fresh water and red for waste water. Check that the filler positions are correctly designated: 'Petrol', 'Diesel' and 'Water' as appropriate.

10. Electrical System

Extra Low Voltage 12V (Excluding vehicle electrics).

- Batteries: Check the condition of any battery including connections, wire, fuses and relays connected with domestic electric's.
- Wiring: Examine all visible wiring for damage or wear. Check that all connections are safe.
- Fuses and Holders: Check that all fuses and fuse holders protecting the domestic electric's are satisfactory. Check that fuse ratings are compatible with the appliances being protected.
- Appliances: Inspect all appliances for signs of damage, overheating or wear. Check the security of the fixings. Test the operation of each appliance.
- Mains System 230V: Inspection and certification of the 230V system should only be carried out by a suitably qualified electrician.



Warranty

Habitation Compartment Warranty

Your Auto-Trail Motorhome is offered with a two year manufacturer backed warranty for its' habitation compartment, with the third year warranty (excluding water ingress and delamination) provided by MB & G Insurance (please note certain exclusions apply). It is possible to extend this insurance backed warranty to years four and five. Terms and conditions apply.

Chassis Warranty

Fiat provides a manufacturer's warranty for the base vehicle (as supplied to Auto-Trail) for a period of two years, with the third year warranty being covered by MB & G Insurance. For any issues with the base vehicle in the first two years please contact your local Fiat dealer, for any issues on base vehicle in the third year please refer to either your supplying dealer or MB & G Insurance.

Your base vehicle warranty is subject to the terms and conditions contained in the respective chassis manufacturers' service literature and MB & G handbooks supplied with your vehicle. Your vehicle must be serviced in accordance with the chassis manufacturer's requirements.

Body Construction Integrity Warranty

Your Auto-Trail Motor home is offered with a 10 year manufacturer's warranty against the breakdown of the body seals (terms and conditions apply) with a graduating customer excess being applicable to years 6 - 10. The excesses payable on any claim are detailed below;

Body Construction Integrity Warranty	
Year 1 - 5	Full cover by Auto-Trail
Year 6	80% of cost covered by Auto-Trail 20% of cost covered by customer
Year 7	70% of cost covered by Auto-Trail 30% of cost covered by customer
Year 8	60% of cost covered by Auto-Trail 40% of cost covered by customer
Year 9	50% of cost covered by Auto-Trail 50% of cost covered by customer
Year 10	40% of cost covered by Auto-Trail 60% of cost covered by customer

For full details of your vehicle warranty and servicing requirements and full terms and conditions, please refer to the separate warranty booklets supplied with your vehicle.



Fiat Camper Assistance

Fiat Camper Assist

The Fiat Ducato of your new Auto-Trail Motorhome is covered by Fiat Camper Assistance for a period of 24 months.

A new call centre reserved for Motorhome drivers is now available. All you have to do is call **0800 3428 1111** and a knowledgeable operator speaking your language will give you the comprehensive information on the products and services offered, and will transfer your call to a specialist technician, or to Fiat Camper Assistance, the on the road assistance team for the service of Motorhome customers.

You can call from any European country, 24 hours a day, 7 days a week to get immediate help.

The best specialists will assist you in the event of an accident, a breakdown, lack of fuel, loss of keys, partial theft, etc.

Auto-Trail Aftercare Centre

Auto-Trail can now provide insurance approved accident and repair work in our Aftercare Centre.

For further information please contact us on:

Tel. 01472 571000

Or visit our website: www.auto-trail.co.uk





Tyre Pressure

MODEL	TYRE SIZE COLD (BARS)	TYRE PRESSURES – COLD (BARS)	
		FRONT AXLE	REAR AXLE
NAVAJO	215/70R15CP	5.0	5.5
MOHAWK	225/75R16CP	5.5	5.5
SAVANNAH	225/75R16CP	5.5	5.5
SCOUT	225/75R16CP	5.5	5.5
DELAWARE	225/75R16CP	5.5	5.5
DAKOTA	225/75R16CP	5.5	5.5
ARAPAHO	225/75R16CP	5.5	3.8
CHIEFTAIN	225/75R16CP	5.5	3.8
COMANCHE	225/75R16CP	5.5	3.8

MODEL	OVERALL LENGTH	OVERALL WIDTH (Mirrors Folded)	OVERALL HEIGHT		MAX. GROSS WEIGHT	MASS IN RUNNING ORDER	MAXIMUM TOWABLE WEIGHT	PASSENGER SEATS (Std. Vehicles)
			LO-LINE	HI-LINE				
NAVAJO	6.81 m	2.35 m	3.03 m	3.07 m	3500 kg	3220 kg**	1250kg	1
MOHAWK	7.50 m	2.35 m	3.03 m	3.07 m	4250 kg	3430 kg**	1250kg	1
SAVANNAH	7.60 m	2.35 m	3.03 m	3.07 m	4250 kg	3450 kg**	1250kg	1
DAKOTA	7.60 m	2.35 m	3.03 m	3.07 m	4250 kg	3525 kg**	1250kg	1
SCOUT	7.90 m	2.35 m	3.03 m	3.07 m	4250 kg	3600 kg**	1250kg	3
DELAWARE	7.90 m	2.35 m	3.03 m	3.07 m	4250 kg	3660 kg**	1250kg	1
ARAPAHO	8.73 m	2.35 m	3.03 m	3.07 m	5000 kg	4040 kg	1000kg*	3
CHIEFTAIN	8.73 m	2.35 m	3.03 m	3.07 m	5000 kg	4000 kg	1000kg*	1
COMANCHE	8.73 m	2.35 m	3.03 m	3.07 m	5000 kg	4075 kg	1000kg*	1

Please Note:

**The Mass in Running Order includes a 75kg allowance for the driver and 90% full fuel tank, gas bottles and fresh water tank emptied to it's 20 litre travelling capacity.

* If the Maximum Authorised Weight is not fully utilised then the towable weight can be increased accordingly. The Gross Train Weight figure quoted on the chassis plate however must never be exceeded.

Weights quoted are for standard vehicles only. Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorcaravan. EG Passengers, optional equipment, essential habitation and personal effects

WARNING

Under no circumstances should the maximum gross weight of the vehicle be exceeded.

MAX. GARAGE DIMENSIONS: Length: 2170mm, Width: 1265mm, Height: 1185mm.

GARAGE DOOR APERTURE: Width: 745mm, Height: 1094mm

MAX. ALLOWABLE WEIGHTS IN GARAGE: Chieftain Garage: 250kg. Mohawk: 150kg

HEATING GRADE All Auto-Trail vehicles have a minimum heating classification of grade 3. This means that your vehicle can maintain an average temperature of at least 20 degrees centigrade when the outside temperature is minus 15 degrees centigrade.

GAS INPUT OF APPLIANCES

Fire = 3.9kw. **Water Heater** = 1.7kw. **Cooker (3 gas burners)** = 8.3kw. **Fridge** = 0.19kw.

Cable Colour Chart



Y/U

Example
Yellow cable with Blue stripe

Cable Colour Chart

Auto-Trail 2011

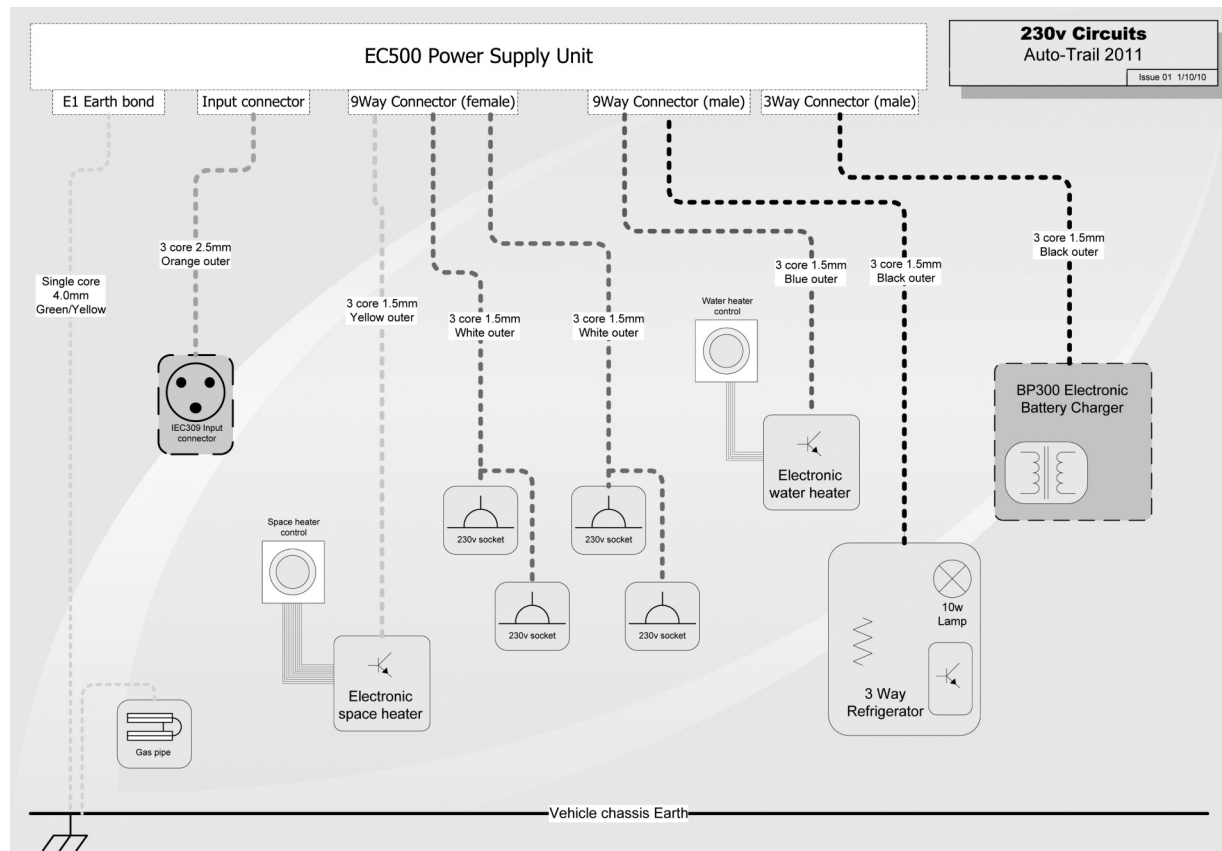
Issue 01 1/10/10

12v Cable Colours

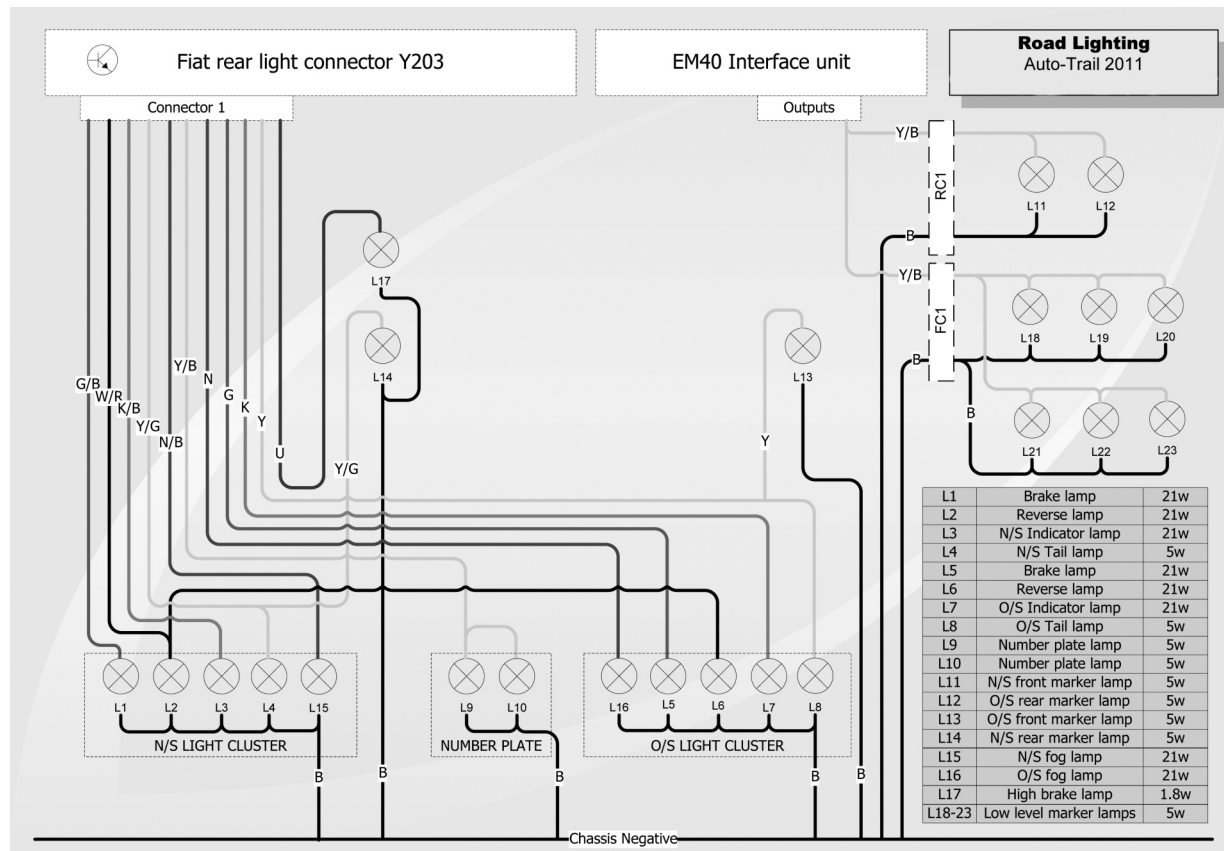
B	BLACK
N	BROWN
R	RED
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE
P	PURPLE
S	SLATE GREY
W	WHITE
K	PINK

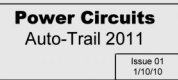
230v Cable Colours

B	BLACK
N	BROWN
W	WHITE
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE

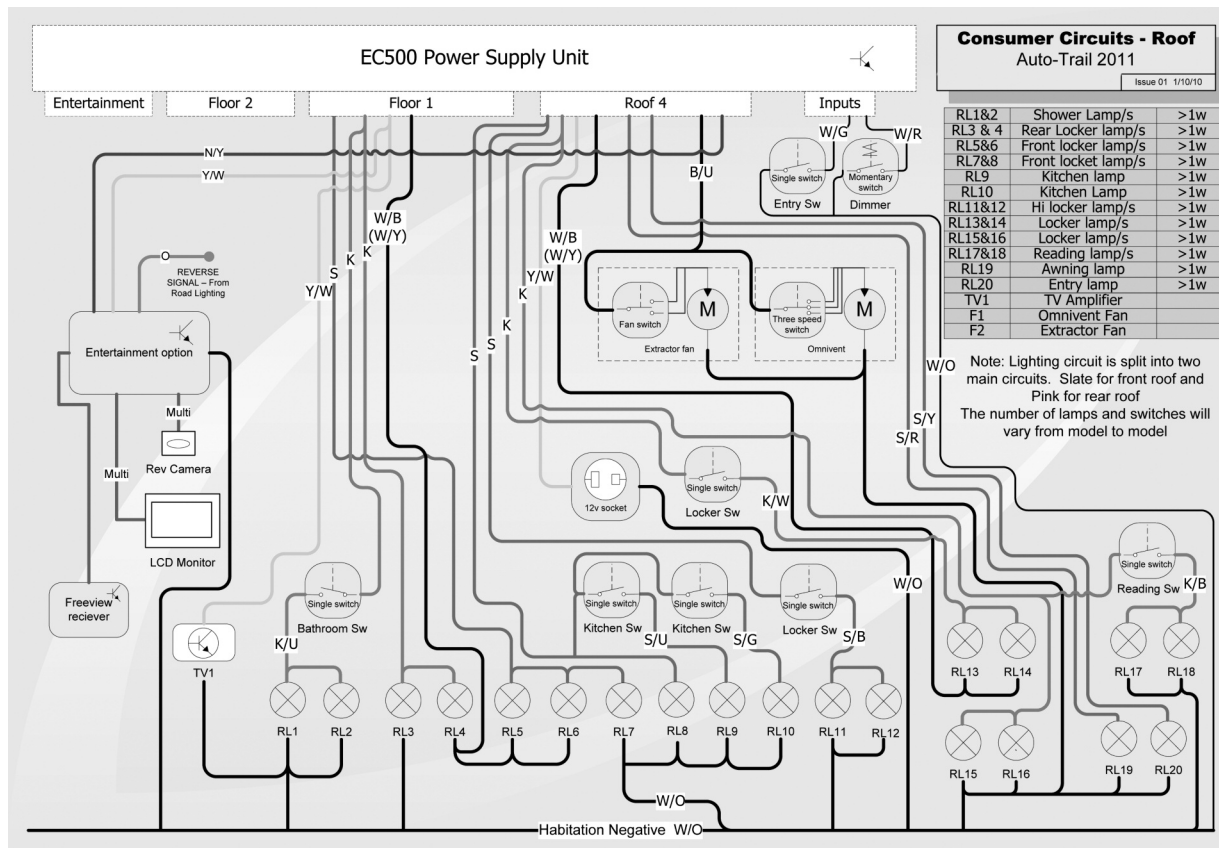


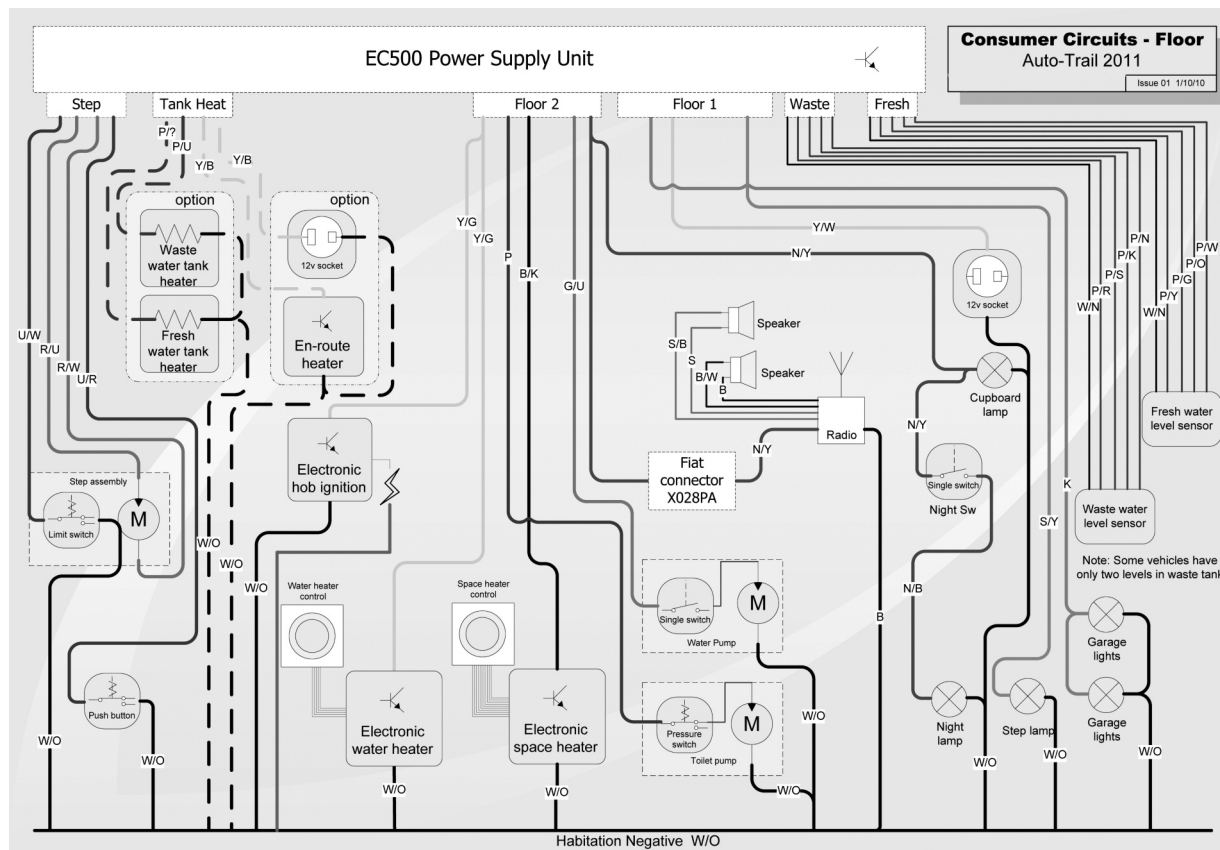
Road Lighting Circuits





Consumer Circuits - Roof







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TOGETHER WE'RE GOING PLACES