# AUTOTRAIL

## OWNER'S HANDBOOK: **EXCEL**

. www.auto-trail.co.uk

## AUTOTRAIL owners' handbook excel



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.

## **Complete the details below:**

Model:	Name:	Telephone:
Date Purchased:		
Supplying Dealer:		
Sales Person:		
Telephone Number:		
Tyre Pressure:		
Radio Code:		
Exterior Door Key Number:		
Water Filter Key Number:		
Vehicle Build Number:		



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Useful information3-4	
Introduction	6-7
Preparing for the road	8-9
External features	10-11
Driving your motorhome	12-13
Selecting a pitch	13
Gas services	14-15
Electrical services	16-18
Leisure battery	19
EC500 power supply unit	20-21
EC325 control panel	22-23
'AVTEX' LCD television & DVD player	24-25

Spinflo S330 hob26
Spinflo Duplex oven & grill27
Dometic RM7271 refrigerator28
Webasto dual top diesel heater29
Flue covers
Water services
Thetford cassette toilet
Windows & skylights33-35
Wind out awning35
Security & ventilation36-38
General care39-41
Winter laying up42-43

Good neighbour guide	43-45
Annual checklist	46-51
Guarantee	51-53
Vehicle specifications	54
Cable colour chart	55
230v circuits	56
Road lighting circuits	57
Power circuits	58
Consumer circuits - roof	59
Consumer circuits - floor	60
Notes	61-64



## 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. This handbook is intended to give a brief overview of your motorhome and its appliances.

You are advised to read all of the individual appliance instructions which will be found in the information wallet supplied with your vehicle.

Please note that every effort is made within this handbook to accurately reflect and describe our motorhomes.

However, our policy of continued improvements, and change in market supply conditions means that we reserve the right to alter specifications without prior notice.

It is important that this handbook accompanies the motorhome so that any future owner has the benefit of the relevant information. Your motorhome is designed to give many years of use. Regular maintenance is however necessary to ensure trouble free service.

Your supplying dealer is responsible for all aspects of customer care.

All vehicles are supplied with a comprehensive warranty, please ensure that the dealer has fully explained all aspects of your motorhomes operational systems and the necessary servicing requirements.

Should you require assistance your supplying dealer is fully conversant with the correct procedures that you should follow to get any issues dealt with in a timely manner.

#### **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 affect 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.

### **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.

## **Base Vehicle**

Please make reference to the base vehicle handbook for matters relating to the motorhome as a road vehicle (e.g. tyre pressures, servicing intervals etc).





## Preparing For The Road

## **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.

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.

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

## **Tow Bars**

Various suppliers manufacture tow bars that can be fitted to your Auto-Trail vehicle. Please check with your tow bar supplier that the tow ball fitted to your vehicle fits your requirements exactly and does 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 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, secured and turned off.
- Ensure that seat swivels (if fitted) are locked in the forward facing position.
- · Ensure entrance step is retracted.





## External features

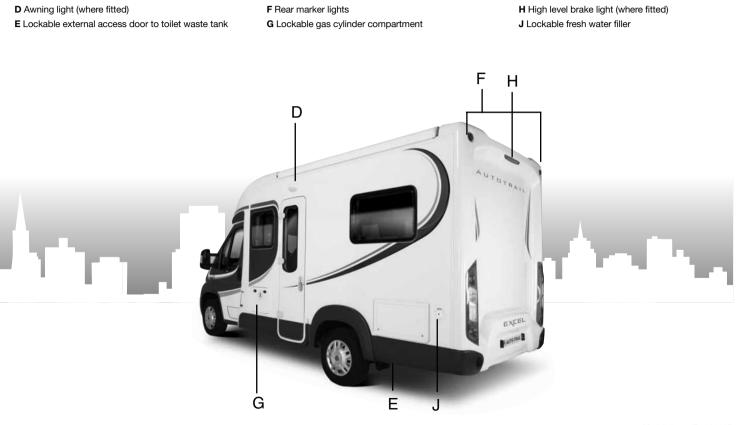
A Fridge vents B Front marker lights C Status T.V. aerial (omni-directional, where fitted)



TAKE YOURS ON AN ADVENTURE

## AUTOTRAIL : OWNERS HANDBOOK

## External features



Model shown Excel 600B



## 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.

## **Changing A Wheel (Where Applicable)**

Most Auto-Trail vehicles are fitted with a 'Fix and Go' kit that comprises of a compressor and puncture repair fluid. Please follow the instructions supplied with the kit that are contained in the carrying case;

- 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 theses regulations and that you drive within the law.



## **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 to 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.





## Gas Services

## **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 2 x 7kg gas cylinders.

The compartment is accessed via a door on the outside of the vehicle. This door is secured by two locks.

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 not specified by Auto-Trail that are stored in this compartment are secured correctly and cannot damage any pipe work or fittings, or block the ventilation.

#### TAKE YOURS ON AN ADVENTURE

## **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.

- 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.



#### **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.

## **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)

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.

## **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.





## **Electrical Services**

## **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 and 230v lights (where fitted to a vehicle), 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.

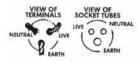
### **Overseas Connections**

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.

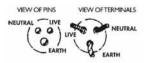
Please note that if too many appliances are in operation at one time, the MCB may trip. This is a safety measure. On some sites, the power is not sufficient to power all items. If in doubt, consult the site manager or warden.

Wiring of connecting cable and motorhome mains inlet:

#### Pitch outlet supply

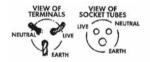


## **Cable plug**



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

#### **Cable coupler**

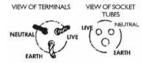






## **Electrical Services**

#### 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**

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.



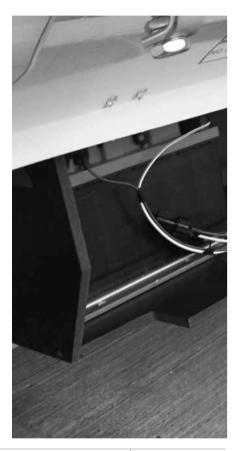
## Connecting and disconnecting the battery

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.





## EC500 Power Supply Unit

## 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 & Miniture 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.

### **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 of 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. The LED control panel (normally located over the entrance door) controls all of the on board 12v systems.





## EC325 Control Panel

## **EC325 Control Panel**

The LCD control panel (normally located over the entrance door) controls all of the on board 12V systems.

## Basic Controls On The Panel Power ON / OFF

Use this switch to turn the main 12V power on and off in the vehicle (press once and LED will illuminate indicating power on, press again, LED will go out indicating power '0FF').

## **Battery Select**

Use this button to select either the leisure battery or the vehicle battery.

Pressing this button once will select the base vehicle battery (LED will illuminate), pressing the button again will select the leisure battery again.

The control unit will automatically select the leisure battery when the control panel is first switched on. When a battery is selected this battery will be used as the power source and will also be charged by the on-board charger.

Please note that the charger will only select an individual battery as a power source or charging, it cannot charge both batteries simultaneously.

## Pump ON / OFF

Use this switch to turn the on board water pump on and off (LED next to switch will illuminate when pump is switched 'ON').

We would always recommend that the pump is switched off when leaving the Motorhome for any period of time.

## Aux. ON / OFF

On all Auto-Trail vehicles the Auxiliary switch is used to turn on and off the exterior awning light.

Pressing the button once switches the light on (LED will illuminate) pressing it again will switch the light off (LED goes out).

## Scroll Buttons

The buttons to the right of the LCD display are used to scroll up or down the menu functions of the control panel. The centre button is used to select the required function.

### Menu Functions

The main menu functions that are available on the control panel areas follows (visible by using the downward scroll button);

### Leisure Battery Condition

This gives the voltage reading and condition of the on-board leisure battery.

As a general rule;

- If the battery shows less than 10.9 volts, the battery indicates 'POOR'.
- If the reading is between 10.9 volts and 11.8 volts, the battery condition is 'FAIR'.
- If the reading is between 11.9 volts and 14.4 volts, the reading will indicate 'GOOD'.

## Vehicle Battery Condition

This is the voltage reading and battery condition of the vehicle battery.

As a general rule;

- If the battery shows less than 10.9 volts, the battery indicates 'POOR'.
- If the reading is between 10.9 volts and 11.8 volts, the battery condition is 'FAIR'.
- If the reading is between 11.9 volts and 14.4 volts, the reading will indicate 'GOOD'.

## Mains Supply ON

This indicates that the vehicle is plugged into the mains supply and that the mains is switched 'ON'.

#### Leisure Battery

This shows the type of battery that is fitted to the vehicle (all Auto-Trail vehicles are fitted with a Lead / Acid battery as standard fitment).

## Fresh Water Level

This is the approximate level in your freshwater tank.

If the pump is turned on and the water level drops below 25% a warning beep will be heard and the LCD display will flash. To cancel this warning press the central scroll button to the right of the LCD display.

The display indicates;

tank nearly empty
tank more than $^{1}/_{4}$ full
tank more than $^{1}/_{2}$ full
tank more than $^{3}/_{4}$ full
tank full

## **External Temperature**

The external temperature (in degrees centigrade) as measured by the outside temperature gauge.

## **Battery Current**

This display shows the current (in amps) being drawn from or charged into the selected battery.

- + symbol indicates battery being charged
- symbol battery is being discharged

These are only the basic menu controls on the panel that can be used during the basic operation of the vehicle.





## AVTEX LCD Digital TV and DVD Player

## 'AVTEX' LCD Digital Television and DVD Player

Your vehicle may be fitted with an AVTEX combined digital television which has a built-in DVD player (Sport model only).

### **Basic Operation**

The unit can be switched from 'Standby Mode' (red LED indicator on facia panel) to the 'Power On' mode (green LED indicator on facia panel) by pressing the 'standby' button on the remote control or on the top panel of the television.

## **Change Source Operation**

You can change the input source from the source menu, this allows you to select terrestrial television (TV), DVD, AV, digital television (DVB) and FM radio.

Press the 'SOURCE' button on the unit or on the remote control to show this menu on screen.

The current source is highlighted.

Press the up and down arrows on the remote control to select your desired signal source and press the 'OK' button to confirm your choice.

## TV Operation (Terrestrial)

### To tune in the television

- In TV mode press the 'SETUP' button on the remote control to show the 'PICTURE', 'TV SETTING' and 'SYSTEM'. Press the up and down arrows on the remote control to select 'TV SETTING' (illustrated by a television symbol) and press 'OK' to select.
- Use the up and down arrows on the remote control to select 'AUTO SEARCH' and press 'OK' to enter.

The unit will now search for all available terrestrial channels.

## **Channel selection / volume control**

 Channels can be selected by either pressing the number of the desired channel or 'CH+' or 'CH-' on the remote control. The volume can be adjusted by pressing the 'VOL+' or 'VOL-' on the remote control.

## AVTEX LCD Digital TV and DVD Player

## **DVD Operation**

- Switch the unit on using the power button (red LED will turn green to indicate power is on).
- Switch the signal source to DVD.
- Insert the disk into the slot in the side of the unit with the label towards you. The unit will draw the disk in automatically.
- Press the 'PLAY' button to begin to play the disc and adjust the volume using the 'VOL+' or 'VOL-' buttons.
- To stop or eject the disk simply press the 'STOP' or 'EJECT' buttons on the remote control.

## **Digital (DVB) Operation**

- Switch the unit on using the power button (red LED will turn green to indicate power is on).
- Switch the signal source to DVB.

Note; to view digital television you will first have to set up various general items that appear on screen when you select the 'SETUP' button on the remote control. These include the on-screen display language, country and time, etc.

- Pressing the 'SETUP' button three times will bring up the 'DVB-T set up' menu.
- Using the down arrow highlight the 'Channel set-up' menu press 'OK' to select.
- Using the down arrow highlight the 'Auto Scan' menu, press 'OK' to select.
- Continue to select 'OK' to the on-screen prompts and the Auto Scan display will indicate the status on the scan and the channels found.
  When the scan is complete the channels will be automatically stored in the units memory.

### Please note that you will have to retune the digital receiver every time the vehicle moves into a new digital transmission area.

These instructions are intended as a simple user guide to illustrate the basic functions of the unit.

More detailed information can be found in the operating instructions supplied with your vehicle.





## Spinflo S330 Hob

## Spinflo S330 Hob

The Spinflo S330 is a fully recessed electronic ignition 3 burner hob. The three burners are fully adjustable from full flame to simmer.

### Using the hob

Ensure that the gas cylinder valve is open and that the isolation valve supplying the oven is in the 'ON' position.

Important - The hob will support 200mm diameter pans on the outer burners, and 180mm diameter pans on the central burner. Avoid old or misshapen pans as these may cause instability.

The hinged glass lid must be fully opened prior to using the hob.

## To light

 Push the control knob of the desired burner and rotate to the fully 'ON' position. The pushing action will activate the electronic ignition and the burner should light. Keep the control knob pressed for approximately 10-15 seconds, then release.

- 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 ignite the burner is made.
- Adjust the control knob to the desired cooking position.

## To turn off

- Rotate the control knob until the line on the knob is aligned with the '0' on the hob facia.
  Always make sure the control knob is in the '0FF' position when you have finished using the burner.
- Close the hinged glass lid.

## Warning

The glass lid has a tendency to 'snap' shut towards the end of its lowering. This is caused by the travel lock action of the hinges as it is activated. Make sure all fingers are removed from the appliance when closing the lid.

## Spinflo Duplex Oven and Grill

The Spinflo Duplex oven is a combined oven with built-in grill. Both the oven and grill are operated from the same control knob on the oven facia.

### **Using the Grill**

Ensure that the gas cylinder valve is open and that the isolation valve supplying the oven appliance is in the 'ON' position.

### Important

The grill must used with the door open.

The heat deflector below the oven facia should be pulled out prior to lighting the grill. Never adjust the heat deflector without using hand protection i.e. oven gloves.

- Open the door, push the control knob and turn clockwise to the maximum position.
- Press the ignition button on the oven facia and the burner should light, keep the control knob pressed for 10-15 seconds before releasing.
- If the burner has not lit within 15 seconds the control knob should be released and the grill left for at least 1 minute before a further attempt to light the burner is made.

- Although the grill does heat up quickly, it is recommended that a few minutes pre-heat be allowed before cooking.
- To turn off, rotate the control knob until the line is aligned with the '0' on the oven facia. Always make sure the control knob is in the 'OFF' position when you have finished grilling.

### Using the Oven

- Open the door, push and rotate the control knob anti-clockwise to gas mark 9.
- Push the ignition button on the oven facia and the burner should light, keep the control knob pressed for 10-15 seconds before release.
- If the burner is not lit within 15 seconds, the control knob should be release and the oven left for at least 1 minute before a further attempt to light the burner is made.
- Set the control knob to the required oven setting.
- Although the oven does heat up quickly, it is recommended that a few minutes pre-heat be allowed before cooking.

 To turn off the oven, rotate the control knob until the line is aligned with the '0' on the oven facia. Always make sure the control knob is in the off position when you have finished using the oven.





## Dometic RM7271 Refrigerator

## **Dometic RM7271 Refrigerator**

The refrigerator is equipped to operate on 230v, 12v or LPG.

The desired power option is selected by means of the energy selector switch which has four settings; 230v, 12v (DC), LPG and OFF.

## 12v (DC) Operation

- Set the energy selector switch to 12v operating display 12v will illuminate green to indicate appliance is operating on 12v.
- Use the rotary control knob to set the temperature in the main refrigerator compartment.
- If the operating display fails to light then the appliance is not operating.

## 230v Mains Operation

- Set the energy selector switch to the 230v setting operating display 230v will illuminate green to indicate the appliance is operating on 230v.
- Use the rotary control knob to set the temperature in the main refrigerator compartment.
- If the operating display fails to light then the appliance is not operating.

## LPG Gas Operation

- Before operating the appliance on gas ensure that the valve on the gas cylinder is open and that the individual safety valve for the fridge is open.
- Set the rotary control knob to the 'MAX' position.
- Set the energy selector switch to 'GAS'.
- The ignition process is activated automatically, accompanied by a ticking sound for approximately 30 seconds.
- If ignition is successful the display 'GAS' will illuminate yellow indicating that the unit is operating on gas.
- In the event of a gas fault (e.g. gas cylinder empty) then the display will flash.
- Use the rotary control knob to set the temperature in the main refrigerator compartment.

## Switching Off The Refrigerator

 Turn the energy selector switch to the 'OFF' position. The refrigerator is now switched off.

Please note, if leaving your vehicle for an extended length of time, (e.g. greater than two weeks) the energy selector switch should be switched to the 'OFF' position.

## Webasto Dual Top Diesel Heater

The webasto Dual top heater provides blown air heating and domestic hot water using diesel fuel from the vehicle's tank.

The heater is controlled by a single control panel that is normally located over the entrance door.

## Summer Setting (providing domestic hot water only)

On this setting you can choose a water temperature of either  $40^{\circ}$  centigrade or  $70^{\circ}$  centigrade depending on your personal preference.

## Heating only (providing warm air heating only)

On this setting the heater can be run without any water in the boiler to provide warm air heating inside your vehicle.

## Heating and hot water (providing warm air heating and domestic hot water)

This setting provides warm air heating inside your vehicle and domestic hot water to  $70^{\circ}$  centigrade.

### Anti Freeze mode

This setting is ideal for winter camping. If the temperature is below 6° centigrade the boiler is maintained at 40° centigrade and warm air is circulated around the vehicle to keep off the chill.

### **Temperature control**

This dial is used to control the internal temperature of your vehicle. The dial is not marked with any temperature settings, once you have found your ideal temperature the dial should be left in this position.

As a rough guide leaving the dial at 12 o'clock is approximately 22 ° centigrade which most people feel comfortable with.

### Switching off the heater

Turn the control to the 'off' position to switch off the heater.

Even when the unit is in this condition it is constantly monitoring the water temperature in the boiler.

If this temperature drops to a critical level then the drain valve will open to prevent freezing.

#### **Boiler Drain**

To drain the boiler rotate the dial to this position and hold for a minimum of ten seconds, this will open the drain valve to empty the boiler.

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.





## Flue Covers

## **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  $90^{\circ}$  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.

## **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.

## Please note, use only food or drug quality pipe.

## 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 the 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.

#### TAKE YOURS ON AN ADVENTURE

#### 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.

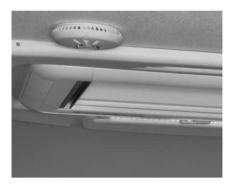
## Do not allow the holding tank to become too full.

- 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.



## Windows & Skylights

Your vehicle is fitted with side windows and sky lights to provide light and ventilation to your vehicle.

The number of windows and skylights fitted to your vehicle will depend on the particular model that you have chosen.

### Windows & Blinds

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.

### **Luton Windows**

The Luton windows are opened by rotating the two catches 90  $^{\circ}$  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.

## **Luton Blinds**

The Luton window is fitted with a combined blind and flyscreen.

Pulling the recessed aluminium extrusion downwards from the top will close the night blinds.

With the night blind closed, pulling the plastic handle downwards from the top will close the flyscreen. Opening the blinds / flyscreens is the reversal of the above procedure.

## Main Habitation Windows Top Hung Windows

The main habitation windows are opened by pressing the release buttons on the opening catches and rotating  $90^{\circ}$ . This will release the catches from the locking plates and the window can be hinged open.

The window stays are of a ratchet type and will hold the window open at any angle up to  $80^{\circ}$ .

To close the window it must be opened to 90° (that will disengage the ratchet mechanism) and lower the window to the closed position. Rotate window catches 90° until they 'click' back into the locking plates and the release buttons will spring out of the catches.

## **Sliding Windows**

To open a sliding window simply release the central catch and slide the window open to the desired amount.



## Windows and Skylights

## Windows & Skylights

## Window Blinds

The habitation widows are fitted with night blinds that pull upwards from the bottom of the window and a flyscreen blind that pulls downwards from the top of the window.

The night blind and flyscreen will clip together and can be positioned at any point within the blind frame.

## 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.

Continue winding the handle clockwise until the ratchet makes a 'clicking' noise (this is the noise of the ratchet clutch slipping).

Line up the handle with the recess in the inner frame and fold the handle away.

## Omnivent

The omnivent is opened by rotating the opening handle in a clockwise direction, the glazed dome will hinge open.

Winding the opening handle anti-clockwise will close the glazed dome.

## **Blinds & Flyscreens**

The omnivent is fitted with a night blind only.

This is closed by squeezing the catch together and drawing the blind across the skylight.

The clear skylights are fitted with night blinds and flyscreens.

The blinds and flyscreens 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 flyscreen can then be fully drawn across the whole aperture. Opening the blinds and flyscreens is a reversal of the procedure. Please note - do not leave pleated night blinds in the 'closed' position if the vehicle is being left in storage for any extended period of time.



## 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 taught 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.

## 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, may have to be released).
- When the awing is retracted to within 1 metre of the vehicle the supporting legs can be folded back into the awning facia.
- 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 awing 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.



## Security and Ventilation

### **Security & Ventilation**

Low level ventilation is provided via the entrance step well. High level ventilation is provided by skylights 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 heat source (e.g. space heater).

#### **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

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 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.

#### 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 condition the LED indicator will flash quickly.

#### Maintaining your smoke alarm

If the smoke detector 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.



## Security and Ventilation

### **Security & Ventilation**

#### **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**

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 thief 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.



### **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.





## General Care

### **General Care**

#### 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.

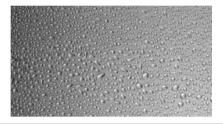
To prevent condensation the heat has to keep the room surfaces reasonably warm.

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 has been left unoccupied for 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  $10^{\circ}$ c that condensation will occur. Ideally the temperature should be kept at about  $20^{\circ}$ c although this is not always possible.



## General Care

### 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.

#### **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 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

## Winter Laying Up

Whether you use your motorhome all year round or lay it up for the winter, care should always be taken to ensure your investment is receiving the very best attention.

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

It is recommended that the upholstery is removed from the vehicle if at all possible during winter storage to avoid damp. If this is not possible then it should be stood on its end to allow as much air as possible to circulate.

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.



## 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 approve 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.



## Good Neighbour Guide

## Motorhome Owners' Good Neighbour Code

#### At A Camp Site 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 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.





## Motorhome Annual Checklist

## **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.





## Motorhome Annual Checklist

## **Auto-Trail Motorhome Annual Checklist**

#### **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.

### **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.

#### 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.

#### 8. Gas Systems Cvlinders 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.





## Motorhome Annual Checklist

### **Auto-Trail Motorhome Annual Checklist**

#### **Flame Structure**

- 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 gas 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.

### Guarantee

#### **Guarantee for first 12 months**

Your Auto-Trail motorhome is guaranteed for a period of twelve months from the delivery of the motorhome by the Supplying Dealer to the first purchaser. The habitation area of the vehicle must be serviced at 12 monthly intervals from this date as failure to do so could invalidate the terms of your warranty. Auto-Trail VR Limited will through its supplying dealer network, at it's option, repair or exchange free of charge (including labour charges) any part of the second or third stage conversion of the vehicle (with the exception of those parts listed in 2C) which need(s) repair or replacement due to defective parts or workmanship.

#### 1. Guarantee for First 12 Months

Auto-Trail VR Ltd. hereby guarantees, subject to the following limitations and conditions, that for a period of 12 months from the date of delivery of an Auto-Trail VR Ltd. motorhome to the first purchaser, Auto-Trail VR Ltd. will, through its supplying dealer network, at it's option, repair or exchange free of charge (including labour charges) any part of the second or third stage conversion of the vehicle (with exception of those parts listed in paragraph 2C.) which need(s) repair or replacement due to defective parts or workmanship. In addition, the base vehicle of your Auto-Trail VR Ltd. motorhome is covered by the individual manufacturer's warranty terms and conditions, details of which are included with your information folder.

#### **Extended Guarantee**

Auto-Trail have extended their normal 12 month Guarantee, with an extended manufacturer's warranty to include cover for major items giving piece of mind for 36 months.

Full details of this policy are provided in the extended policy booklet that should be supplied with your vehicle.



## Guarantee

### Guarantee

#### 2. Limitations and Conditions

- **A.** This guarantee is limited to the first purchaser and applies only where the vehicle is used for private use by the purchaser and excludes any use for hiring out purposes.
- **B.** This guarantee shall not apply to any parts damaged through accident, fair wear and tear, improper use of the vehicle, if the vehicle has been altered in any way or if repairs have been attempted other than by service staff of Auto-Trail VR Ltd. or its supplying dealers or other agents approved by Auto-Trail VR Ltd. Improper use includes but is not limited to overloading, neglect, use for time trials or use on unsuitable roads or surfaces.
- **C.** This guarantee does not apply to light bulbs, tubes or globes, adjustment to door catches and locks other than routine maintenance and lubrication or paintwork generally. Without prejudice to the terms of this guarantee, complaints concerning paintwork during the first twelve months will be dealt with on their merits if notified to Auto-Trail VR Ltd. immediately.

- D. Subject to paragraph 3 below and except for liability for death or personal injury resulting from negligence, Auto-Trail VR Ltd. will not be liable in any manner whatsoever whether in contract, tort, misrepresentation or otherwise, for any consequential loss, damage or injury in connection with the supply of any motorhome to or execution of work for the purchaser.
- **E.** For work under this guarantee you should return your motorhome to the supplying dealer from which it was purchased.
- **F.** Auto-Trail VR Ltd's agents, representatives or supplying dealers have no authority to vary the terms of this guarantee.
- **G.** Full particulars of the serial number, date of purchase and supplying dealer from whom the vehicle was purchased must accompany any part or parts returned directly to Auto-Trail VR Ltd.

#### 3. Statutory Rights

Nothing in this guarantee shall affect or derogate from the statutory rights of the consumer.

Guarantee

Please note if your vehicle is offered with extended warranty, ensure your dealer registers it at the time of collection and supplies you with a copy of the warranty policy.

Please note Auto-Trail VR Ltd. will not be liable for any costs incurred by the customer as a result of taking the vehicle back to the selling dealer or manufacturer for warranty work.

Please note, in certain circumstances it may be necessary to remove furniture or fitted carpets to facilitate repairs to Auto-Trail vehicles.

#### **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 571059

Or visit our website:

http://www.auto-trail.co.uk/





## Vehicle Specifications

MODEL	OVERALL LENGTH	OVERALL WIDTH (Mirrors Folded)	overall Height	WHEELBASE	Max. Gross Weight	MASS IN RUNNING ORDER	Max. Towable Weight	gross Train Weight	PASSENGER SEATS (Std. Vehicles)
Excel 590	5.88m	2.23m	2.79m	3000	3300kg	2760kg	1240kg	4540kg	1
Excel 600	5.99m	2.23m	2.79m	3450	3300kg	2790kg	1240kg	4540kg	1
Excel 640	6.40m	2.23m	2.79m	3450	3300kg	2880kg	1240kg	4540kg	1
Excel 670	6.72m	2.23m	2.79m	3800	3300kg	2925kg	1240kg	4540kg	1

		TYRE PRESSURES – COLD (BARS)			
MODEL	TYRE SIZE COLD (BARS)	FRONT AXLE	REAR AXLE		
EXCEL 590 EK	215/70R15CP	5.0	5.5		
EXCEL 600B	215/70R15CP	5.0	5.5		
EXCEL 640G	215/70R15CP	5.0	5.5		
EXCEL 670B	215/70R15CP	5.0	5.5		

Please Note: The Mass in Running Order includes a 75kg allowance for the driver and 90% full fuel tank, gas bottles and water tank. Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorcaravan. e.g: Passengers, optional equipment and personal effects such as clothing, food, pets, bicycles etc.

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: Excel 640: 150kg

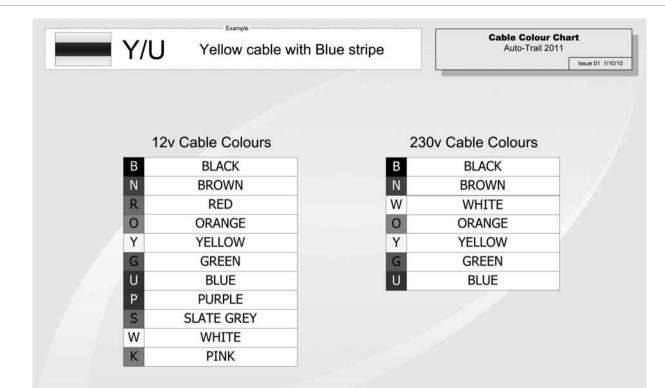
#### HEATING GRADE

All Auto-Trail vehicles have a minimum heating classification of grade 2. This means that your vehicle can maintain an average temperature of at least 20 degrees centigrade when the outside temperature is zero.

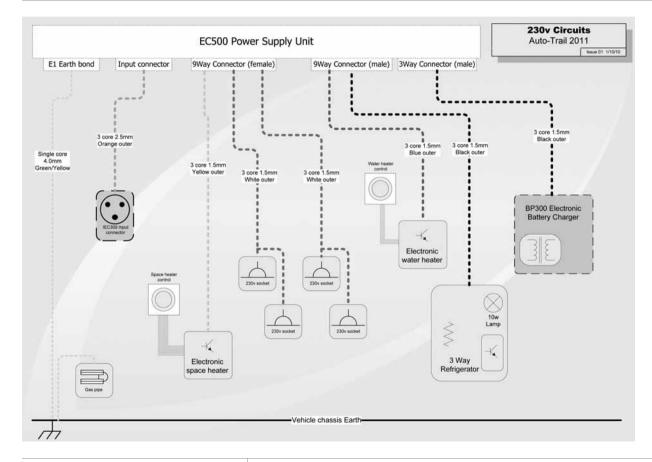
GAS INPUT OF APPLIANCES Fire = 3.9kw. Water Heater = 1.7kw. Cooker (3 gas burners) = 8.3kw. Fridge = 0.19kw.

### AUTOTRAIL : OWNERS HANDBOOK

## Cable Colour Chart

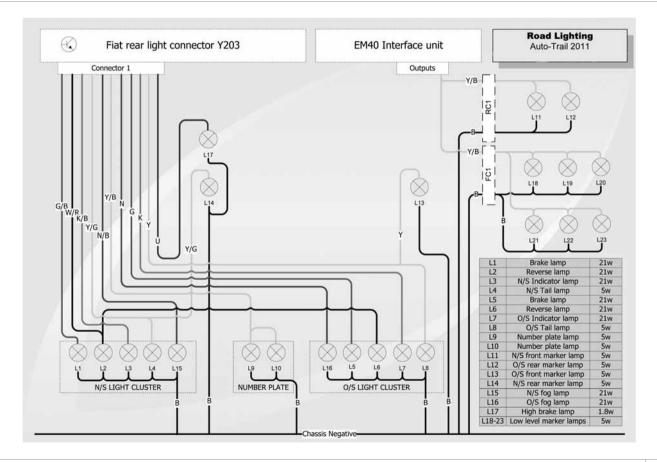


## 230v Circuits



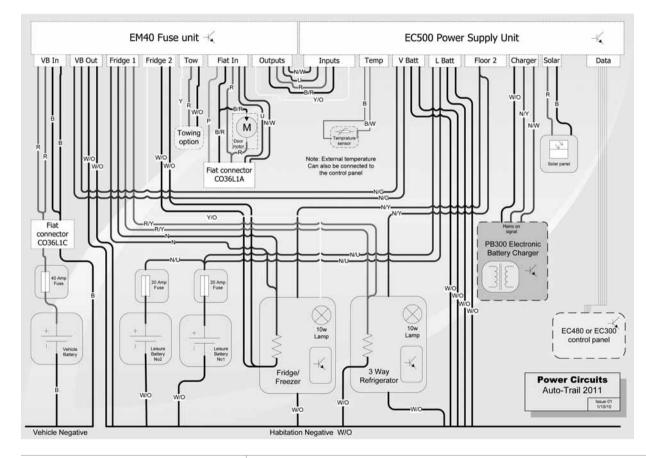
## AUTOTRAIL : OWNERS HANDBOOK

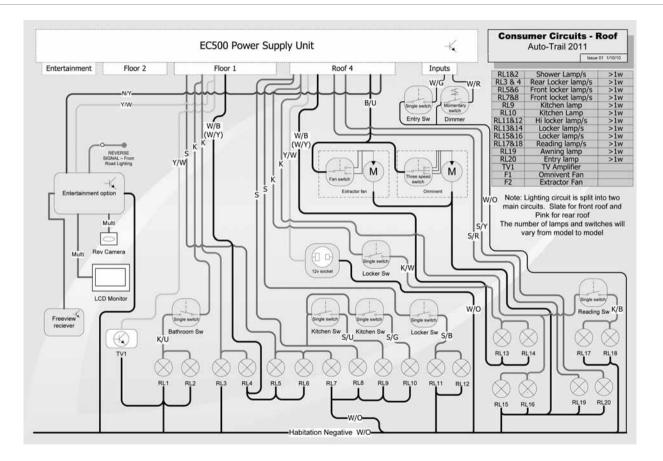
## Road Lighting Circuits



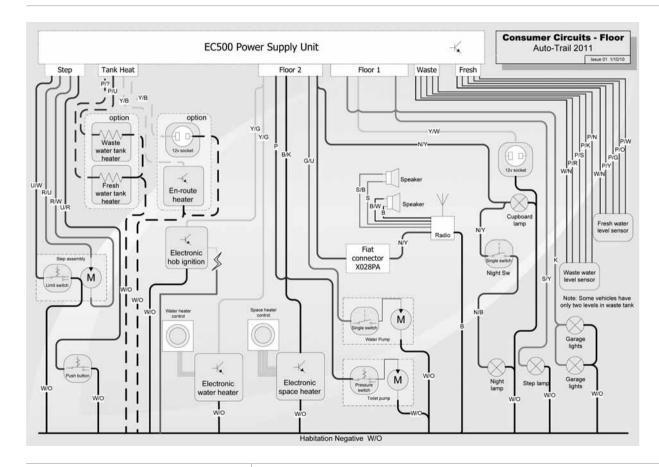


## **Power Circuits**









TAKE YOURS ON AN ADVENTURE




TAKE YOURS ON AN ADVENTURE




TAKE YOURS ON AN ADVENTURE

## AUTOTRAIL

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