



Buccaneer Touring Caravan OWNERS HANDBOOK



Issue 1



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WELCOME AND INTRODUCTION

Congratulations on choosing a Buccaneer Touring Caravan.

This Owner's Handbook has been prepared for your guidance to help you derive the greatest amount of pleasure from the use of your caravan and your leisure time. We strongly recommend that you read this guide thoroughly so that you are fully aware of all the caravan's features, equipment and systems.

Additional information and detailed appliance instruction manuals are also contained in your Owner's Information Pack which can be found within the white kit box supplied with your caravan.

Your new Buccaneer caravan has been designed as a recreational vehicle and is intended for recreational use only. It is not intended for business, hire use or for permanent habitation. Buccaneer accepts no liability if the caravan is used for any purpose other than recreational/holiday use. Any other use other than recreational/holiday use will invalidate your warranty.

Your caravan has been designed for towing behind a normal motor car. Additional care should be exercised when towing with a 4x4 because of the 'off-road' nature of the suspension. Owners should not tow their touring caravans with commercial vehicles. When selecting a towing vehicle it is recommended that you consult the Caravan Towing Code, which is available from the NCC.

By following the instructions provided in this handbook and maintaining your caravan in a first class roadworthy condition, you are sure to have many years of carefree use.

To ensure the very best quality and reliability all touring caravan designs and new developments are rigorously tested. Therefore Buccaneer will accept no liability or uphold the warranty if the caravan is altered or modified in such a way that would adversely affect the reliability.

Please note: It is a condition of your warranty that the caravan must have an "annual service" carried out by a Buccaneer approved Retailer / Service Centre or NCC Approved workshop and a record is kept. Pages are provided in the back of this guide, for your assistance.

A Buccaneer Approved Retailer / Service Centre will be able to supply any replacement parts for your caravan, should the need arise, and in most cases any accessories you may require.

Please note: It is not possible to purchase replacement parts direct from Buccaneer.

Changing market and supply situations may prevent us from maintaining the exact specification details in this guide and we therefore reserve the right to alter specifications as materials and conditions demand.

Enjoy your new caravan

Model Year Designation

All Touring caravans manufactured by Buccaneer are designated by their model year. The 2015 model year runs from 1st September 2014 to 31st August 2015.

Buccaneer Technical Approvals

All Buccaneer Caravans have been European Commission Whole Vehicle Type Approved via the Vehicle Certification Agency (VCA).

In order to ensure your new caravan is safe to use, Buccaneer are members of and have been inspected by the following bodies.

NCC who operated a certification scheme to ensure compliance with the European safety standards for caravans.

National Inspection Council for Electrical Installation and Contracting (NICEIC) who carry out an annual inspection of Buccaneer electrical installations within caravans.

Gas Safe Register™ approved installers carry out an annual inspection to ensure that the gas installations carried out by Buccaneer fully comply with all relevant regulations and standards.

Buccaneer has also obtained ISO9001:2008 accreditation and this is audited by SGS UK Limited



GENERAL SAFETY

Please read before using your new caravan.

In order for you to get the most out of your new Buccaneer caravan it is necessary for you to be aware of the following:

- (i) Do not obstruct ventilators and clean them regularly, it is advisable to clean and check all the ventilators annually for blockages and where necessary rectify any blockages found.
- (ii) Inspect the high pressure flexible gas hose (available from your retailer) regularly for deterioration and renew as necessary, with an approved type, in any case no later than the expiry date stated on the hose.
- (iii) Ensure the gas supply and all appliances are turned off before towing your caravan.
- (iv) If your caravan has been fitted with a gas BBQ it must be only used for its intended purpose. **Do not use a gas barbeque within an awning.**
- (v) Never use portable cooking or heating equipment inside your caravan. Do not use your fitted cooking equipment as heating at any time.
- (vi) Never allow modification to your gas or electrical system unless qualified persons carry them out. All modification to the gas system must be carried out by a Gas Safe Register™ approved gas fitter. Any modifications carried out on the electrical system must be carried out by an electrician on the roll of the NICEIC or be a member of the ECA.
- (vii) If you suspect there is a gas leak please open all the windows then vacate the caravan. Then contact your nearest Buccaneer Retailer to arrange for them to check the gas system.
- (viii) In the interest of safety, replacement parts for an appliance should conform to the appliance manufacturer's specifications and should be fitted by them or an authorised agent.
- (ix) It is recommended that you provide a dry powder fire extinguisher complying with ISO 7165 of at least 1KG capacity by the exit door and a fire blanket next to the cooker. Ensure you read the 'advice to occupier label' fitted to your caravan usually found on the inside of the wardrobe door.
- (x) Never exceed your caravans Maximum Technical Permissible Laden Mass. (see Caravan Towing Vehicle Weight Ratio).
- (xi) The laden nose weight for your caravan should not exceed the lower of the following:
 - Towing vehicles maximum nose weight.
 - Tow bar maximum nose weight.
 - The caravan's maximum nose weight
- (xii) Ensure heavy and large items are secured before towing your new caravan to reduce the risk of damage being caused while the caravan is in motion.
- (xiii) Pull out worktop extensions, where fitted, are only designed to take maximum weight of 6kgs.
- (xiv) When your caravan is connected to your towing vehicle it should be level or slightly nose down.
- (xv) When your caravan is loaded to its MTPLM and the weight distributed in accordance with the handbook, your caravan is designed to be towed at a maximum speed of 100kmh/60mph.
- (xvi) **It is illegal to tow your caravan whilst it is occupied.**
- (xvii) Do not leave children under 14 years of age unattended in your caravan.
- (xviii) Do not tow your caravan with any water in the water heater or water tank (if fitted).

IMPORTANT: Your attention is drawn to the notice affixed in the caravan's wardrobe advising on fire prevention, ventilation and what to do in case of fire.



VENTILATION

All caravans manufactured by Buccaneer are ventilated at both high and low level in accordance with BSEN 721 Safety Ventilation.

High-Level Ventilation

This is always provided by fixed ventilation within the fitted roof skylight. All roof skylights fitted by Buccaneer provide fixed free area ventilation. These roof skylights should be cleaned annually by use of a small brush to remove any dust that may have accumulated around the mesh fitted. On some roof skylights the mesh can be easily removed to aid cleaning. On fan-assisted roof skylights it is essential that the fan is switched off prior to cleaning

Low-Level Ventilation

Low-level ventilation is provided under the front chest of drawers. The exact position can be identified via a cover used to prevent the ventilation from being obstructed. In order to clean the ventilator, remove the cover by undoing the two screws and clean using a small brush. It is essential that the cover is replaced once cleaning is complete.

Ventilation in Separate Bedrooms

In caravans with separated sleeping areas, separate ventilation is required and is provided via a roof skylight at high level and a ventilator at low level within a bed box or under the fixed bed.

Gas Dispersal Holes

All appliances and gas taps have a gas dispersal hole nearby. It is essential that these are not blocked or made ineffective.

Petrol/Diesel Fumes

The fitting of a tail pipe to your exhaust will reduce the possibility of fumes entering your caravan through the front fixed ventilation points.

FIRE SAFETY

Fire Extinguishers

It is recommended that a 1 kg (2lb) minimum capacity dry powder fire extinguisher be carried inside your caravan at all times. A pan fire must not have an extinguisher aimed at it, but must be smothered with a fire blanket.

In Case Of Fire

- (i) Get everyone out of the caravan as quickly as possible using whichever exit is quickest including windows. Do not stop to collect any personal items.
- (ii) Raise the alarm. Call the fire brigade.
- (iii) Turn off the gas container valve if safe to do so.

Fire Retardant Foams

All caravans are equipped with either Combustion Modified High Resilient (C.M.H.R.) foam cushions or sprung mattresses and fire retardant fabric. All furnishings and fabrics used by Buccaneer comply with the Furniture and Furnishings (Fire Safety) Regulations. In addition all upholstery is made of fire retardant fabric.

Escape Paths

Your new touring caravan has been provided with escape paths to be used in the event of an emergency. One of which is always the main habitation door and others are the large windows to be used where necessary.



YOUR CARAVAN PAYLOAD EXPLAINED

Definitions

Plated maximum technical permissible laden mass (PMTPLM)

As specified by Buccaneer and in compliance with the European Directive on Masses and dimensions of vehicles.

Actual MTPLM

Maximum mass of the vehicle, which takes into account operating conditions including, factors such as the strength of materials, loading capacity of the tyres etc.

Mass of the caravan in running order (MIRO)

This is the weight of your caravan as it leaves our factory plus the following:

18kgs to allow for the carrying of 2 x 6kgs BP gas light bottles.

Personal effects payload (PEP)

This is calculated by the following formula:

$$10L + 10N + 50$$

L is the body length of the caravan in meters.

N is the number of berths.

50 is for normal equipment carried in the caravan, a sample list is given below.

Kettle	0.5kgs
Bed linen	6kgs
Crockery	5kgs
Saucepans	3kgs
Wastemaster	6kgs
Aquaroll (empty)	5kgs
Waste bin	1kg
Cutlery	2kgs
Toilet fluid etc	2.5kgs
Battery	25kgs

Optional equipment payload (OEP)

This is an amount of weight provided by us for factory fitted options.

Please note: Any options fitted by the retailer will reduce the overall payload available to the customer.

User Payload is the sum of the PEP and OEP.

Note: It is possible to upgrade your Plated MTPLM to the Actual MTPLM up to the caravan being 3 years old, there is an administration fee for this service.

Note: Please ensure you never load your caravan above the plated MTPLM.



PREPARING FOR THE ROAD

Tyre and wheel checks

Before setting off please ensure that the tyres are inflated to the correct pressure and have at least the legal minimum of tread (1.6mm which should be in a continuous band throughout the central three-quarters of the tread width, throughout the whole of the circumference of the tyre) and are in a good condition with no bulges or visible defects.

You should also check that the wheel bolts have been tightened to the correct torque (130Nm for Alloy wheels and 102Nm for steel wheels).

CARAVAN TOWING VEHICLE WEIGHT RATIO

This ratio has a major influence on stability. It is recommended that:

- (i) The laden nose weight for your caravan should not exceed the **lower** of the following:
 - * Towing vehicles maximum nose weight,
 - * Tow bar maximum nose weight
 - * The caravan's maximum nose weight.
- (ii) The actual laden weight of the caravan should always be kept as light as possible. The lighter it is whilst being towed on a road, the safer the outfit combination will be.
- (iii) What you are able to tow is dependent on your driving licence.
- (iv) If you are a B licence holder you can only tow a car/caravan combination of total weight not exceeding 3500kgs and the cars kerb weight must be greater than the caravans plated MTPLM.
Note: It is strongly recommended that the caravan plated MTPLM should not exceed the cars kerb weight.
- (v) If you hold a B + E licence you can tow up to a combination weight of 7000kgs.
- (vi) The greater the actual laden weight of the caravan in relation to the kerb weight of the towing vehicle the more careful and experienced the driver needs to be and the lower the speed at which instability could occur.

WARNING: It is strongly recommended the loaded weight of the caravan does not exceed the kerb weight of the towing vehicle.

LOADING

Always lower and secure the jockey wheel and the four corner steadies (with the brace provided) before entering the caravan. This will ensure that the caravan does not tip up when you are inside.

Please note: Corner steadies should not be used as a jacking or levelling device.

Internal Loading & Checks

When loading your caravan it is advisable to:

- (i) Distribute items evenly over the axle and as low as possible to optimise road holding and achieve the best possible braking effect.
- (ii) Do not overload on one side as this will cause the caravan to lean and affect the road holding and stability.
- (iii) Do not stow tins, bottles or heavy items in overhead lockers when towing.
- (iv) Loose articles should be stowed securely to avoid movement and possible damage.
- (v) Ensure that all lockers, cupboard doors and showers doors are closed and room partitions are secured.
- (vi) Secure all bunks (if appropriate).
- (vii) Store the main dining table in its transit position.
- (viii) Set the refrigerator for 12V operation if any fresh food is stored in it and ensure the door is locked.
- (ix) Fully close and lock all windows and rooflights. Never tow with windows on night setting.
- (x) Leave all curtains and blinds open to prevent damage in transit. If your caravan has a rear window this may aid visibility.
- (xi) Ensure you remove all items from the microwave and cocktail cabinet before towing.

External Loading & Checks

- (i) Gas cylinders should only be stored, correctly positioned, and secured in the gas bottle locker. The gas should be turned off.
- (ii) The leisure battery is stored and secured in the battery locker box, set into the tray provided and secured.
- (iii) Any external connections (battery chargers, connecting cables etc), should be disconnected and stowed.
- (iv) Check that all exterior locker doors are secure and locked.
- (v) Secure and lock the main caravan entrance door.

PRE-TOW CHECKLIST & HITCH-UP

Having loaded the touring caravan and secured the lockers and main entrance door:

- (i) Check touring caravan wheel bolts are torque tightened to the required level (See Index - Changing a Wheel).
- (ii) Check tyre pressures (Refer to the Technical Data Sheet) and tyre condition for roadworthiness.
- (iii) Ensure the jockey wheel is down, in good contact with the ground, clamp tightly secured, and the caravan handbrake is fully on.
- (iv) Wind up the corner steadies.
- (v) Reverse the car close up to the caravan's hitch. It is advisable to seek assistance to guide you so that the car tow ball aligns with the caravan's hitch. (Use of the caravan handbrake is advised. Extreme caution should be taken if manoeuvring the caravan down hill or on wet, slippery surfaces).
- (vi) Make sure the jockey wheel height is sufficient for the hitch head to clear the towing vehicles tow ball.
- (v) Manoeuvre the hitch head over the tow ball and lower the jockey wheel using the winding handle, until the hitch head opening sits comfortably over the tow bar ball.

WINTERHOFF STABILISER - HITCH HEAD OPERATION

Coupling

The opened ball coupling is placed over the tow ball of the towing vehicle. As the coupling load is applied to the tow ball the coupling will automatically close, this is indicated when the security lugs become parallel on the side of the housing. (Fig 3.1)

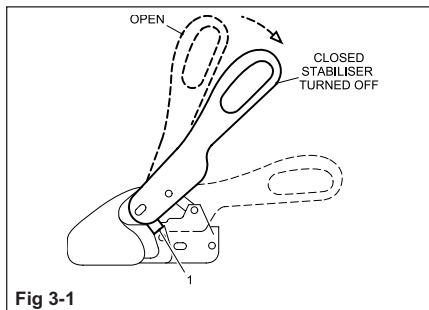


Fig 3-1

Activating the stabiliser

The operating handle will not operate until the automatic closing function has been engaged. The handle can now be fully pushed down. The hitch will remain coupled with the stabiliser deactivated to facilitate easier manoeuvring.

Checking the stabiliser

With the caravan coupled to your towing vehicle and the stabiliser activated, the condition of the friction linings can be checked. The wear indicator (as shown in Fig 3.2) is within the top of the operating handle. The bar graph is marked with (+) and (-) symbols with (+) indicating good condition of the pads and (-) indicating that the pads should be checked.

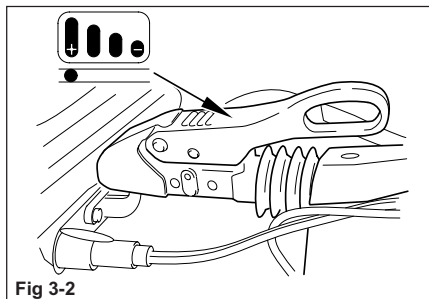


Fig 3-2



Disengaging the stabiliser

Lift up the operating handle with care to release the sprung loaded stabiliser function.

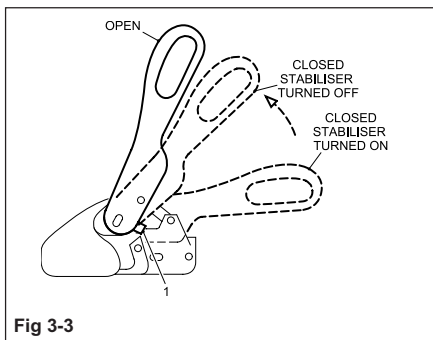


Fig 3-3

Uncoupling

Before uncoupling disconnect the electrical connections and breakaway cable. Also check that it is safe to uncouple your caravan taking into account any gradients. With the stabiliser function disengaged, simultaneously pull back and lift the operating handle, this swings the securing lugs out of the locked position allowing the operating handle to be lifted into the fully open position. Before operating the jockey wheel, which will lift the caravan free of the tow ball, check that both caravan and towing vehicle handbrakes are applied!

If the caravan is not to be used for any lengthy period of time we recommend the ball coupling is kept in the closed position. This can be done easily by pressing the safety ball into the ball space and slowly closing the operating lever.

USE OF YOUR CARAVANS BREAKAWAY CABLE

UK LAW requires that all caravans with brakes (e.g. caravans, horse boxes, car transporters etc), built on or after 1st October 1982, are fitted with a safety device to provide protection in the unlikely event of the separation of the main coupling while in motion. It's also a legal requirement to use the breakaway cable whenever it's provided.

The purpose of the breakaway cable is to apply the caravan's brakes if it becomes

separated from its towing vehicle. The cable assembly is designed to part, allowing the caravan to come to a halt away from the towing vehicle.

Construction - Usually a thin steel cable, possibly plastic coated, and fitted with a means of attachment to connect to the towing vehicle.

Operation - The cable should be able to pull tight to engage the caravan's brakes without any hindrance to its action, if the main coupling of the caravan separates from the towing vehicle. It should never become taut during normal use.

Correct Procedure For Use

- (i) Check cable assembly for damage. If in doubt contact your Retailer or Service Centre.
- (ii) Make sure the cable runs as straight as possible, and goes through a cable guide underneath the caravan coupling.
- (iii) Determine whether or not you have a designated attachment point (a feature of the tow bar which has been identified by the tow bar supplier as being for the attachment of a breakaway cable).

Where a Designated Attachment Point Is Provided On The Tow Bar

- (i) Pass the cable through attachment point and clip it back on itself (Fig 3-4, Step 1);

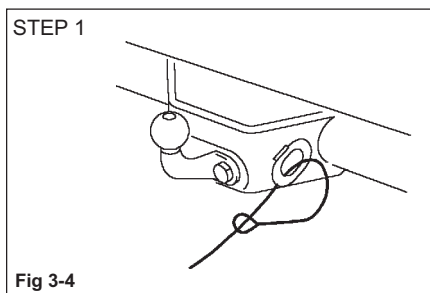
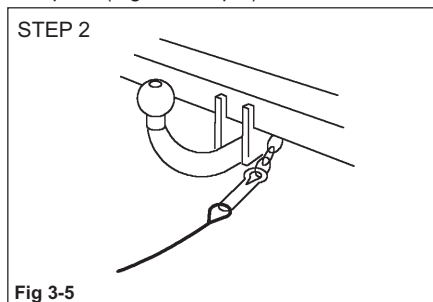


Fig 3-4

or

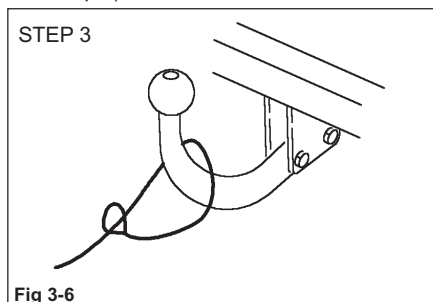
- (ii) Attach the clip directly to the attachment point (Fig 3-5, Step 2).



Note: this must be specifically permitted by the caravan manufacturer's guidance, as the clip may not be sufficiently strong.

Where No Designated Attachment Point Is Provided On The Tow Bar

- (i) **Fixed Ball** - Loop the cable around the neck of the tow ball. If you fit the cable like this use a single loop only (Fig 3-6, Step 3).



- (ii) **Detachable Ball** - You must contact the tow bar supplier for advice.

Other Means of Attachment

Alternatively, it may be possible to attach the cable assembly to a permanent part of the tow bar structure with the approval of the tow bar supplier, or to an accessory sold for the purposes of breakaway cable attachment.

When The Breakaway Cable Is Attached Check To Ensure

- (i) That the cable cannot snag in use on the caravan hitch, jockey wheel or any accessories e.g. a stabiliser, bumper shield, cycle carrier etc.
- (ii) That there must be sufficient slack in the cable to allow the towing vehicle and caravan to fully articulate without the cable ever becoming taut and applying the brakes.
- (iii) That it is not so slack that it can drag on the ground. Leave it too loose, and the cable may scrape along the ground, and be weakened so that it fails before doing its job!

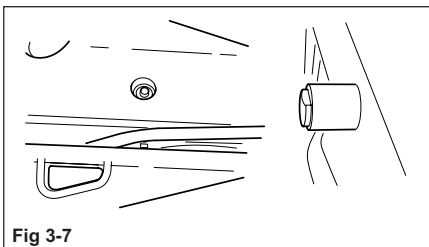
BEFORE SETTING OFF

- (i) Connect the 13 pin plug on the caravan A-frame to the towing vehicle.
- (ii) Check that all tail-lights, brake lights, road lights and indicators work correctly.
- (iii) Ensure that the correct vehicle license / registration plate is attached to the rear of the touring caravan.
- (iv) Using the jockey wheel lift the tow ball slightly to check hitch is locked onto the ball
- (v) Wind up the jockey wheel until the wheel supports locate into the cut out sections at the base of the winding section.
- (vi) Raise and secure the jockey wheel using the clamp. The jockey wheel should be parallel to the direction of travel at all times.
- (vii) Check condition of and secure the breakaway cable to the tow vehicle.



HANDBRAKE

Your caravan is fitted with BPW running gear and handbrake. It is essential that prior to towing you ensure that your handbrake is in the fully off position. This can be confirmed by ensuring that the handbrake arm is resting on the blue stop fitted to the side of the A frame as shown in Fig 3-7 below.



CABLES

For peace of mind, you may wish to check the ability of the cables to be able to cope with towing the vehicle at extreme angles before setting off. To do so position the vehicle at alternate extreme angles and check that the cables do not pull too tight, are liable to stretch or become unplugged. No cables should be allowed to touch the ground as they will wear and become damaged and ineffective.

Please Note: If having followed this advice, you feel you cannot achieve a satisfactory cable arrangement, consult your caravan or tow bar supplier or service agent.



TOWING AND DRIVING

REVERSING

It is advisable to have a second person assisting when reversing the caravan.

Start practising by choosing a left-hand bend for ease. Reverse slowly; turning the wheel, initially the opposite way to the direction you want the caravan to go.

Now the front of the caravan is nudged out and is moving the rear in the intended direction. Take care not to hit the caravan with the car!

Midways through the manoeuvre, when the caravan is correctly angled, reduce speed to a crawl and gradually apply opposite lock. Make the car follow the caravan round then finally straighten up.

Please note: Proficiency at reversing can only be achieved with practice.

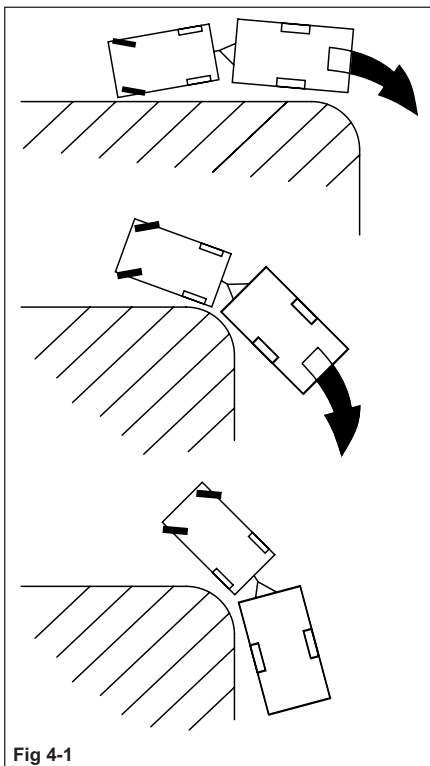


Fig 4-1

SPEED LIMITS

- Always adhere to the speed limits in force.
- When national speed limits apply, when towing on a single carriageway, the speed limit is reduced to 50mph. Dual carriageway and motorways, the speed limit is reduced to 60mph.

SETTING OFF

- (i) Pull away smoothly in the towing vehicle. Allow more engine speed to produce the power to move the additional weight of the caravan.
- (ii) Avoid wear and tear on the clutch and transmission by taking extra care not to 'ride' the clutch.
- (iii) Change gears smoothly. Try not to jerk the clutch.

CARAVAN HANDLING

- (i) Allow for the caravan being wider than the car. Ensure you have a clear view to the rear. This may require the fitting of extended mirrors for towing your caravan.
- (ii) Give yourself more room when cornering to ensure your caravan wheels do not strike the kerb.
- (iii) When passing other vehicles, allow more than the normal clearance for driving solo.
- (iv) Allow longer to obtain a fast enough speed to pass other vehicles.
- (v) Allow for the vehicle being twice its normal length. Do not suddenly swing out.
- (vi) Carry out all manoeuvres as smoothly as possible.
- (vii) Use the wing mirror to check the caravan has clearly passed other road users when overtaking and changing lanes.
- (viii) Adverse weather conditions may affect the steering and braking characteristics of your caravan.



MOTORWAY DRIVING

Important Points:

1. Caravans may not be towed in the outside lane of a three or four lane motorway.
2. Reduce speed:
 - a) In high or cross winds
 - b) Downhill
 - c) In poor visibility
3. High sided vehicles cause air buffeting, so extra care must be taken when passing or being passed. As much space as possible should be given to avoid the drag created by the high sided vehicle.

TOWING COVERS

We do not recommend that you tow with covers on as it can obscure the road light fitted.



ARRIVING ON SITE

CHECK SITE REGULATIONS

On arrival at a site, you should always check the site regulations. This will help avoid any unnecessary conflict with site management and other site users.

WARNING: Care has to be taken to prevent grounding when traversing ramps or other ground obstacles.

SELECTING A PITCH

Carefully select where you wish to place your caravan. The site should be as level as possible, preferably not under or near trees, well drained and away from possible boggy areas. Consider how you will move the caravan when it is time to leave the site. On sloping ground it is better to pitch facing downhill, especially during wet weather.

THE E&P HYDRAULICS LEVELSYSTEM

Operation

The E&P hydraulics levelling system is an electrically/hydraulically driven system.

A hydraulic pump is powered by a 12V direct current motor, which will pump hydraulic oil through a system of hydraulic hoses, two hydraulic axle-supports and four hydraulic corner-supports. This with the aim of stabilising and levelling the caravan. Mounted to this pump are the oil reservoir, the valve block and solenoid (magnetic) valves.

The E&P hydraulics level system is electronically controlled by an operating system or so called main unit, which is mounted on a central location in the caravan.

The level system can be operated either fully automatically or manually by means of a built-in control panel and/or (optional) remote control. In most frequent cases the control panel is mounted in the sidewall at the entrance of the caravan.

The jacks have the bearing and levelling capacity your caravan requires. Each axle supports has a 180 mm stainless steel foot plate on a flexible pivot guaranteeing the greatest firmness possible on any surface.

Using the hydraulic levelsystem

The levelling system is only to be used for creating a stable and horizontal position for the caravan.

With the electronic spirit level, the caravan is adjusted horizontally over its complete width with the aid of the two axle supports and the suspension lifted for corresponding stability. Then the caravan is adjusted horizontally in the longitudinal direction with the aid of the four corner supports. The whole caravan will be stabilised with the help of a pressure button on the control panel or on the (optional) remote control.

Specific characteristics of the hydraulic levelsystem

- Automatically extending the jacks from a retracted position.
- Automatically retracting the jacks from an extended position.
- Automatically or manually levelling the jacks.



Operating instructions

Before taking into service, the following points must be observed:

- The noseweight (A) may not exceed the max. 150 kg.
- Make sure that the ground is sufficiently even and that there are no holes and/ other obstructions present.
- Place the caravan on a firm footing, otherwise the axle supports may sink into the ground.

Note: It is important that when you use the system the caravan is standing facing slightly downhill (B).

- Never use the system when there is anything attached to the caravan, such as an awning or a canopy.
- Never use the levelsystem in automatic mode when the caravan is attached to the vehicle

The following safety precautions must be observed when positioning the caravan.

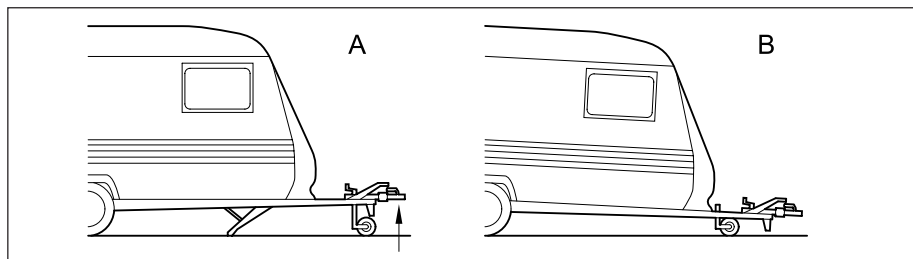
- Apply the caravan handbrake securely.
- Make sure that when the system is being operated, no-one is present in the vicinity of the caravan.
- Do not use any additional supports underneath the axle and corner supports.
- Place no blocks during either manual or automatic levelling.
- Make sure that when levelling is being carried out, on-one is in the caravan.
- An acoustic signal will be sounded during the levelling process.
- The levelling program can be stopped at any time by pressing the ON/OFF button on the control panel or (optional) remote control.

WARNING: Before driving off, check to make sure that all supports have been withdrawn.

Safety warnings

Not observing the following warnings may lead to damages to the caravan and/or serious physical injuries.

- Using the E&P hydraulics levelling system for other purposes than supporting the caravan is officially forbidden according to the E&P Hydraulics Limited warranty.
- This product is exclusively developed as a levelling system and may not be used for other work under the caravan such as changing the tyres.
- When the system is operating, all persons and animals should keep their distance.
- Body parts (e.g. hands and eyes) should never come into contact with released fluids. Oil leaving the hydraulic levelling system may be under high pressure and could cause serious injuries to the skin. Consult a doctor immediately in case of accidents.
- The caravan should be parked on a solid, level and non-slippery surface. The parking location must be free of holes of waste and surrounding objects.
- If the caravan is parked on very soft soil, you must place a support plate under each jack in order to distribute the weight.
- Check if the installation of the hydraulic levelsystem is performed by a skilled mechanic with sufficient practical experience and technical E&P hydraulics training.



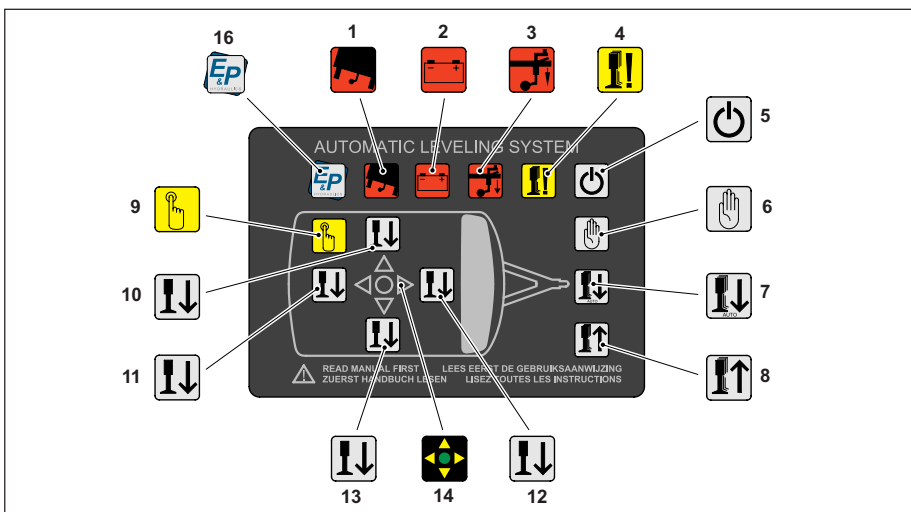


- In case of repairs/malfunctions to the hydraulic levelsystem: know what you are doing. Never try to repair it yourself, but consult your installer or dealer.
- Fully read this user manual, before using the hydraulic levelling system.
- After deploying the hydraulic levelsystem ALWAYS make an inspection tour around the caravan. Just to be sure the caravan stands stable (all hydraulic jacks are on the ground).

Control functions

Functions on the control panel

The diagram below shows the appearance of the control panel. By using the control panel (or remote control) you can operate the hydraulic levelsystem.



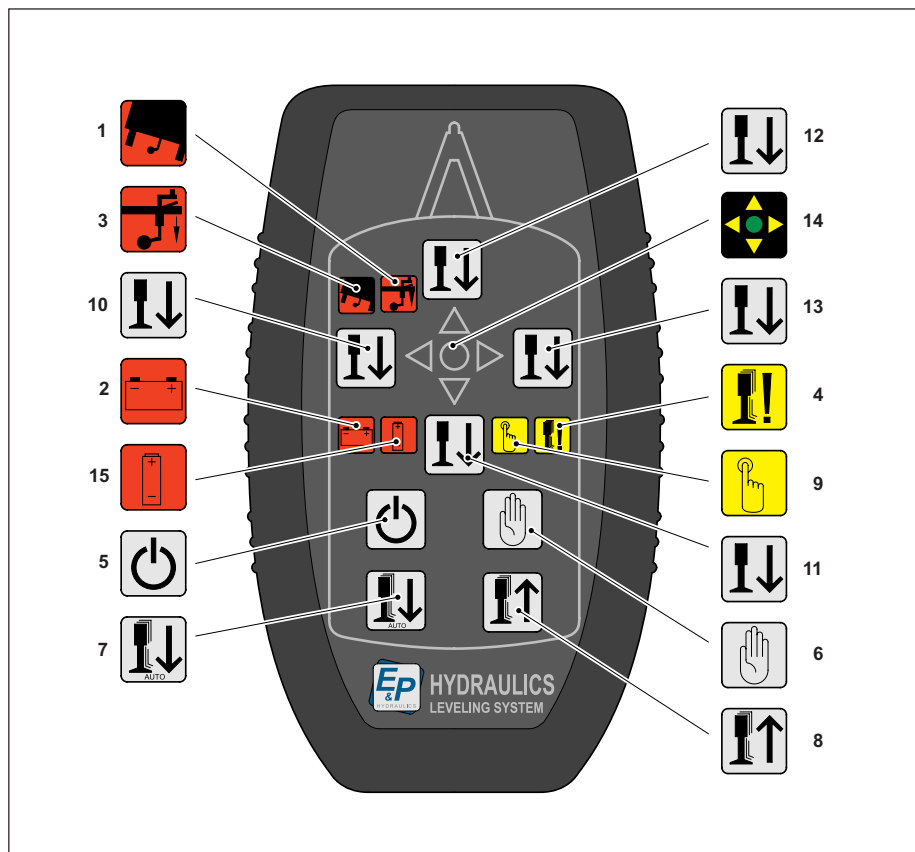
Function declaration:

- | | |
|--------------------------------------|---------------------------|
| (1) LED: Slope too steep | (9) LED: Manual mode |
| (2) LED: Battery low voltage | (10) Button: Left side |
| (3) LED: Withdraw front wheel | (11) Button: Rear side |
| (4) LED: Jacks not (fully) retracted | (12) Button: Front side |
| (5) Button: ON/OFF | (13) Button: Right side |
| (6) Button: Manual mode | (14) LED: Level indicator |
| (7) Button: Automatic mode | (16) LED: E&P logo |
| (8) Button: Retract all Jacks | |



Functions

The diagram below shows the appearance of the remote control. By using the remote control you can operate the hydraulic levelsystem.



Function declaration:

- | | |
|--------------------------------------|---------------------------|
| (1) LED: Slope too steep | (9) LED: Manual mode |
| (2) LED: Battery low voltage | (10) Button: Left side |
| (3) LED: Withdraw front wheel | (11) Button: Rear side |
| (4) LED: Jacks not (fully) retracted | (12) Button: Front side |
| (5) Button: ON/OFF | (13) Button: Right side |
| (6) Button: Manual mode | (14) LED: Level indicator |
| (7) Button: Automatic mode | (15) LED: E&P logo |
| (8) Button: Retract all Jacks | |



Extensive function declaration

- | | | | |
|------|--|------------------------------------|---|
| (1) | | SLOPE TOO STEEP | In this position the caravan cannot be levelled (the surface is not even enough) If necessary switch over to manual mode. |
| (2) | | BATTERY LOW VOLTAGE | The battery is empty of the voltage is too low to be able to work safely. |
| (3) | | WITHDRAW FRONT WHEEL | The caravan is too high at the front, withdrawn the front wheel and the LED will go out. |
| (4) | | JACKS NOT (fully) RETRACTED | One or more jacks are extended or not fully retracted. |
| (9) | | MANUAL MODE | Indicates that the caravan can now be brought to the correct level manually. |
| (14) | | LEVEL (zero point) | Indicates that the caravan can now be brought to the correct level. |
| (15) | | BATTERY 9V VOLTAGE | The battery voltage of the remote control is too low (only present on the remote control) |
| (16) | | E&P LOGO | Indicates that the levelsystem is switched on. (only present on the remote control) |

BUTTONS

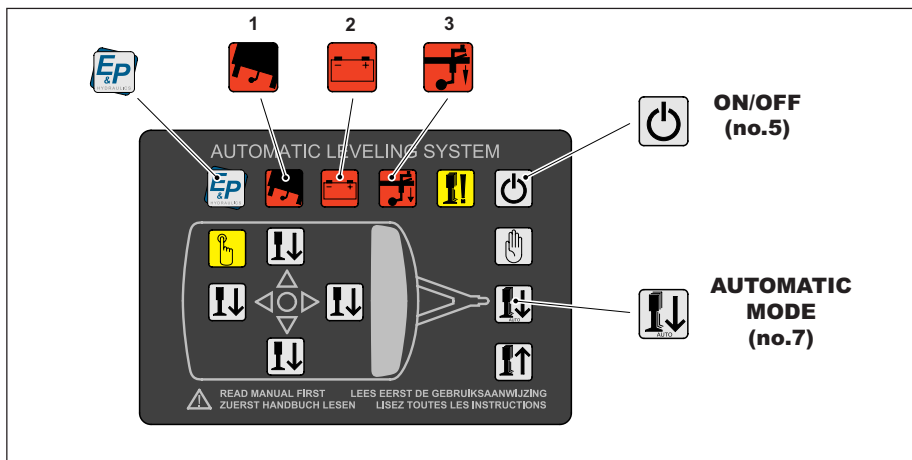
- | | | | |
|------|--|--------------------------|---|
| (5) | | ON/OFF | Switches the levelsystem on or off. |
| (6) | | MANUAL MODE | Switches the levelsystem into manual mode for levelling the caravan. |
| (7) | | AUTOMATIC MODE | Switches the levelsystem into automatic mode for levelling the caravan. |
| (8) | | RETRACT ALL JACKS | Automatically retracts all jacks. |
| (10) | | LEFT SIDE | Controls retracting and extending the left jacks. |
| (11) | | REAR SIDE | Controls retracting and extending the rear jacks. |
| (12) | | FRONT SIDE | Controls retracting and extending the front jacks. |
| (13) | | RIGHT SIDE | Controls retracting and extending the right jacks. |



Operating the levelsystem

Automatic levelling

Procedure for automatic deployment/extension of the axle and corner supports.



Step 1 Press 1x on the button ON/OFF (no.5) to switch the levelsystem ON.



The E&P-logo LED lights up, indicating that the levelsystem is switched on.



When there is insufficient or no battery voltage, the indicator LED "LOW VOLTAGE" (no.2) lights up.



In automatic levelling, the caravan must be tilted a few degrees forwards. The system will indicate whether you have positioned the caravan level enough. If you have not, the indicator LED "FRONT WHEEL" (no.3) lights up and the system cannot be started automatically. The front wheel must be wound down.



When the caravan leans too steeply, the indicator LED "SLOPE TOO STEEP" (no.1) lights up.

REMARK: When the caravan stands too skewed, the caravan cannot be automatically levelled. You now have two options: Stop the levelling procedure and place the caravan on a flatter surface and start again with automatic levelling procedure. Or go further with manual levelling procedure.



Step 2

Press 1x on the button "AUTOMATIC MODE" (no.7) to start the automatic levelling procedure.



When the levelling procedure is complete, the indicator LED "LEVEL" (no.14) lights up GREEN.

REMARK: Depending on the angle of the terrain and type of caravan, the automatic levelling procedure takes about 1 minute.



Step 3

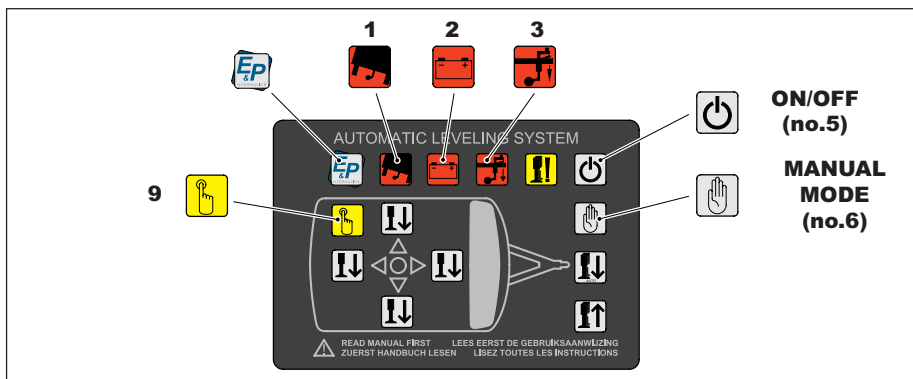
Press 1x on the button "ON/OFF" (no.5) to switch the levelsystem OFF.



Manual levelling

In below the procedure for manual deployment/extension of the axle and corner supports.

The manual levelling function is mainly used when automatic levelling is not possible due to a large tilt of the caravan. With the help of this feature it is also possible to change the position of the caravan; think of your sleeping comfort. Most people prefer to sleep with their head up slightly. Depending on the orientation of the caravan with this feature you can manually adjust the angle where necessary.



Step 1 Press 1x on the button ON/OFF (no.5) to switch the levelsystem ON.



The E&P-logo LED lights up, indicating that the levelsystem is switched on.



When there is insufficient or no battery voltage, the indicator LED "LOW VOLTAGE" (no.2) lights up.



In manual levelling, the caravan must be tilted a few degrees forwards. The system will indicate whether you have positioned the caravan level enough. If you have not, the indicator LED "FRONT WHEEL" (no.3) lights up.



Step 2 Press 1x on the button "MANUAL MODE" (no.6).



The indicator LED "MANUAL MODE" (no.9) lights up, indicating the manual levelling procedure may begin.



When the caravan leans too steeply, the indicator LED "SLOPE TOO STEEP" (no.1) lights up, although this LED lights up, you are able to level. On the side where the caravan is low, fill the space under the axle support (footplate) with some boards to compensate the difference in height. This will avoid the risk it is not possible to level the caravan due to a too large difference in height. In case of too large height difference the hydraulic jacks may come to the end of their stroke.



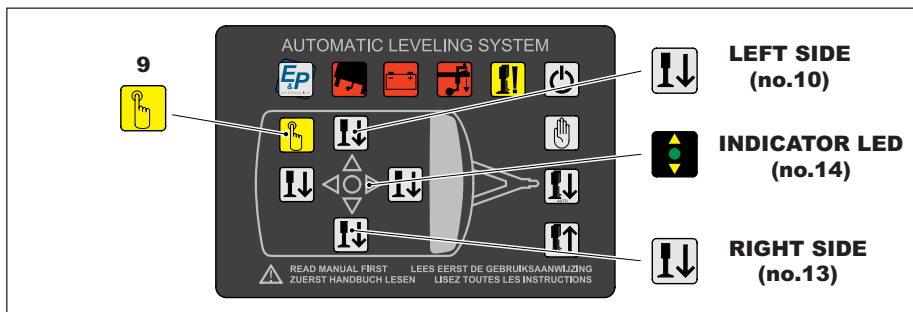
Step 3

In most common cases, there lights up one ORANGE arrow on the control panel (no.14) which indicates on which side the caravan has to be lifted.

Before lifting this side, FIRST lower the other axle-support till it touches the ground.

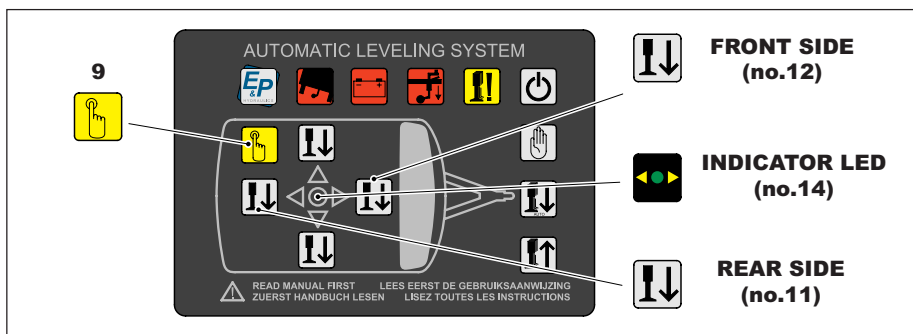


Then the other axle support can be extended by holding button “LEFT SIDE” (no.10) or “RIGHT SIDE” (no.13) pressed down. The levelling procedure automatically stops when the caravan is levelled in the left right direction. The ORANGE arrow level LED (no.14) goes out.



Step 4

Press the button “FRONT SIDE” (no.12) and hold it pressed down till the ORANGE arrow level LED (no.14) goes out, extending of the front corner supports stops by itself when the caravan is levelled in the front to rear direction.



Step 5

Press the button “REAR SIDE” (no.11) until the corner supports at the rear side are touching the ground. **Attention:** The level system does NOT stop automatically.



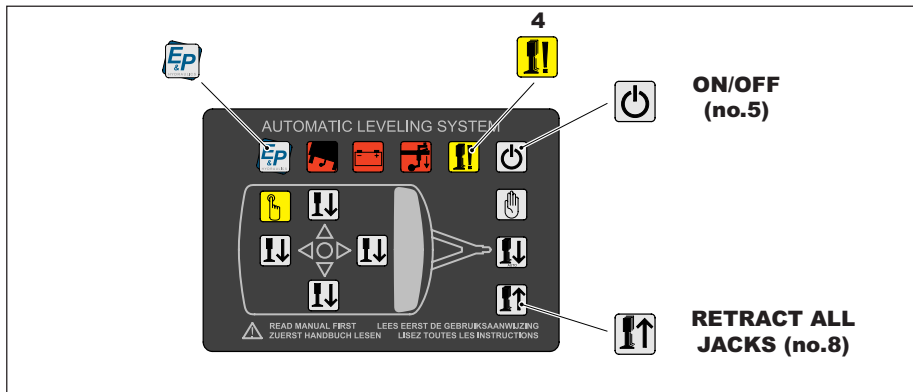
Step 6

Press 1x on the button “ON/OFF” (no.5) to switch the levelsystem OFF.



Retracting the jacks

Follow the procedure below to retract the axle and corner supports.



Step 1

Press 1x on the button "ON/OFF" (no.5) to switch the levelsystem ON.



The "E&P-logo" LED lights up, indicating that the levelsystem is switched on.



Step 2

Press 1x on the button "RETRACT ALL JACKS" (no.8) once.



The indicator LED "JACKS NOT FULLY RETRACTED" (no.4) goes out when all jacks have been fully retracted.



Step 3

Press 1x on the button "ON/OFF" (no.5) to switch the levelsystem OFF.

IMPORTANT: Before departure ensure all supports have been retracted.

Extra functions

Calibration (setting the zero point)

The calibration procedure described below has already been carried out at your dealer/installer.

You don't have to perform this procedure by yourself. E&P Hydraulics has decided to include this chapter as an extra in this manual in case of failure and/or service & repair matters.

Consider setting the zero point** as a condition to make it possible to level the caravan automatically and/or manually. When this operation, for some reason, has not been done or has been carried out incorrectly, it is not possible to level the caravan.

**The zero point is the point (level) at which the hydraulic levelling system (in an automatic cycle) returns.

Start: Manual levelling

Before automatic levelling can be activated, you must set the zero point. For setting the zero point, you must **FIRST** perform the manual levelling procedure.

REMARK: Do this by placing a spirit level in the centre of the caravan.

ATTENTION! Never put the rear brackets first to the ground. This in case creating too much load on the caravan.



Setting the zero point

- Step 1** Press **1x** on the button “ON/OFF” (no.5) to switch OFF the levelsystem after manual levelling.
- Step 2** Press **1x** on the button “ON/OFF” (no.5) to switch the levelsystem ON.
- Step 3** Press **5x** on the button “FRONT SIDE” (no.12)
- Step 4** Press **5x** on the button “REAR SIDE” (no.11)
All LED's on the control panel light up. (the vehicle stands in zero mode)
- Step 5** Press **3x** on the button “RETRACT ALL JACKS” (no.8)
The zero point is programmed.
- Step 6** Press **1x** on the button “ON/OFF” (no.5) to switch the levelsystem OFF.

Remote control (optional)

Preface

The procedure described below has already been carried out at your dealer/installer.

Consider programming (setting) the remote control as a condition to make it possible to level the caravan automatically and/or manually. When this operation, for some reason, has not been done or has been carried out incorrectly, it is not possible to level the caravan with the remote control.

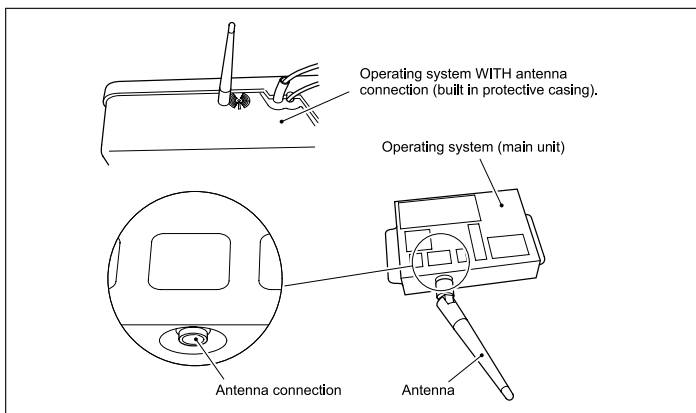
Antenna

Check if there is a antenna connection on the operating system (see below). If this is not the case, the remote control CANNOT communicate with the hydraulic levelling system. In principle, the antenna connector and the antenna are always present when you purchase the levelsystem including a remote control unit.

If you purchased the remote control at a later stage, then you should remember that this antenna connection on the operating system (main unit) could be missing.

The presence of the antenna is dependent on the acquisition period of the levelsystem. After 2013, all operating systems have this antenna connector. In this case, the dealer/installer can directly connect the antenna to the operating system (the antenna is supplied with the remote control)

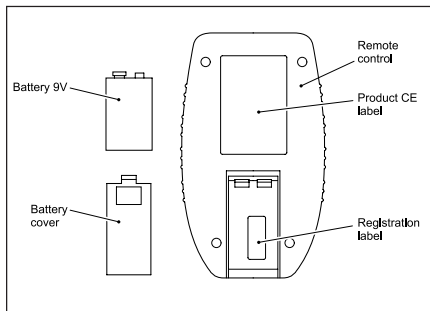
Operating system including the antenna connection





Battery

Remove the battery cover on the rear side of the remote control by firmly pressing the cover and then sliding out. Insert the 9V battery carefully reassemble the battery cover (in most common cases the battery is already fitted).



Programming the remote control

Step 1 In order to pair the remote control to the system, remove the fuse (30 Amp) out of the cable assembly from the hydraulic levelsystem.

Step 2 Press the buttons "AUTOMATIC MODE" (no.7) and "RETRACT ALL JACKS" (no.8) simultaneously.

When done, the Indicator LED (no.14) with the surrounding 4 arrows starts blinking GREEN/ORANGE rapidly. This means the remote control is looking for its receiver, mounted within the operating system.

Step 3 Reconnect the fuse to the system.

- The pairing process should be made within a certain time (approx. 20 sec)
- The remote control turns off automatically.
- When the Indicator LED (no.14) goes off, the pairing process is complete.

Putting the remote control into use

After programming the remote control you now have the possibility to operate the levelsystem with the remote control.

Step 1 Switch the remote control ON by pressing button "ON/OFF" (no.5) for at least 1 second.

Now the GREEN LED will light up by flashing. As long as you see this LED flashing, the remote control is searching for contact with the operating system. When contact is made the flashing stops.

The illumination of one or two ORANGE arrows on the indicator LED (no.14) central on the control panel shows the position of the caravan.

In the unlikely event that the caravan is already level, then the indicator LED (no.14) lights up GREEN.



Which device takes command

The device which is switched on first (remote control or control panel) takes the command to control the system, until that device is switched off. If you would like to switch from one control device to another, you need to switch off the power from the device that was in operation first.

REMARK 1: In the event of switching over from the remote control to the control panel: you have to wait a little time, to give the system enough time to switch off contact between the remote control and the operating system.

REMARK 2: It may be that the operating system is built in such a way that receiving a signal between the remote control and the operating system works poorly or even not at all (caused by caravan construction materials e.g. steel, wood, plastics etc).

In this case there is a possibility to move the antenna away from the operating system by means of an optional extension cable (length max. 2 metres, available from E&P Hydraulics).

Battery Indicator

When the battery level indicator LED (no.15) lights RED, the device does not stop working immediately. After this signal it is possible to use the remote control approx. another 4 times. Make sure there is a spare battery in the caravan.

Emergency pump

Introduction

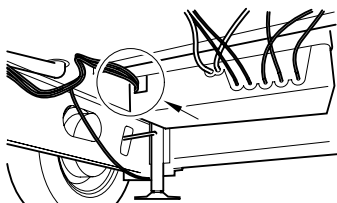
The optional Emergency Hand pump allows the levelsystem to be operated manually, in the (emergency) event the system is defective, or (more likely) because there is not enough battery voltage present.

This possibility is offered by E&P Hydraulic for situations where, for whatever reason, the levelsystem does not withdraw its support jacks and is therefore preventing you from driving, or moving the caravan.

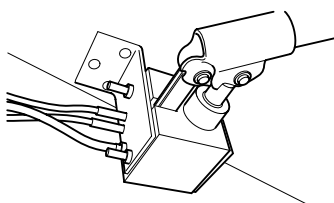
We call it an "emergency situation" because in practice the time of withdrawing the hydraulic jack is, most often, also the time of a (planned) departure. By not automatically withdrawing the support jacks you can no longer move, with adverse consequences.

Therefore, E&P Hydraulics offers you the possibility to integrate an emergency hand pump, for the levelsystem. As the name implies, it is a pump operated by hand that controls (the withdrawal of) all jacks. This means that the time of your departure, transport or movement can be guaranteed.

The emergency hand pump is mounted under the caravan in such a way that it is accessible from the side.P



Protective pump housing with the connections to the emergency pump.



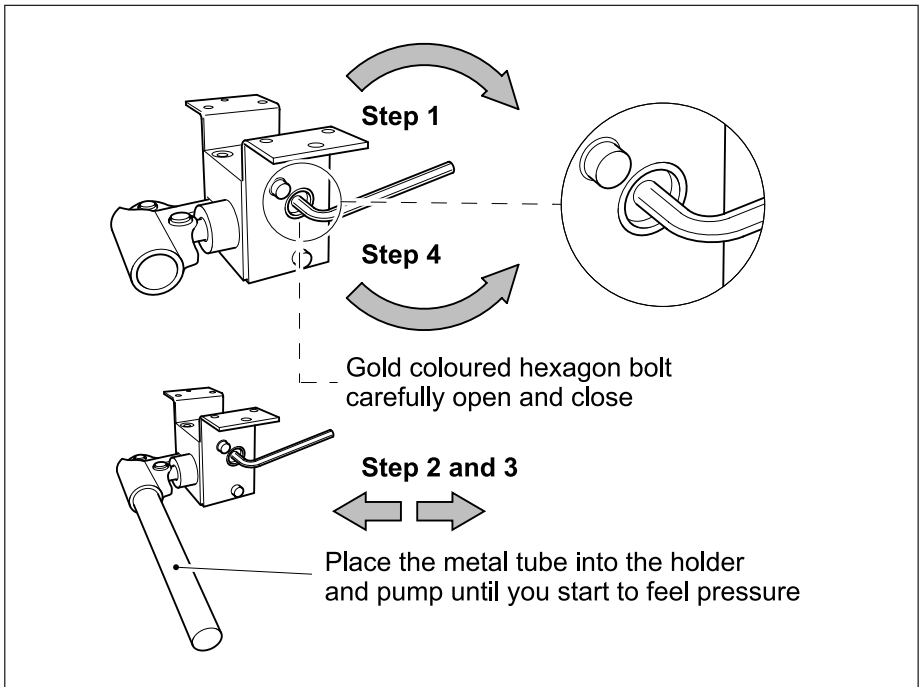
Emergency hand pump

Putting the Emergency pump into use

When actually using the emergency hand pump operation, proceed as follows:

- Step 1** Using the allen key, turn the gold hexagon bolt on the emergency hand pump clockwise to the right (open position).
- Step 2** Place the metal tube (handle) into the black holder on the emergency hand pump assembly.
Pump (back and forth) with the metal tube until all hydraulic jacks are withdrawn. (all jacks will be withdrawn at the same time)
The moment you feel pressure (resistance) building up during this movement is the sign the jacks are fully withdrawn.
- Step 3** Remove the metal tube from the holder.
- Step 4** Using the allen key, turn the gold hexagon bolt on the emergency hand pump assembly carefully to the left until it locks (closed position).

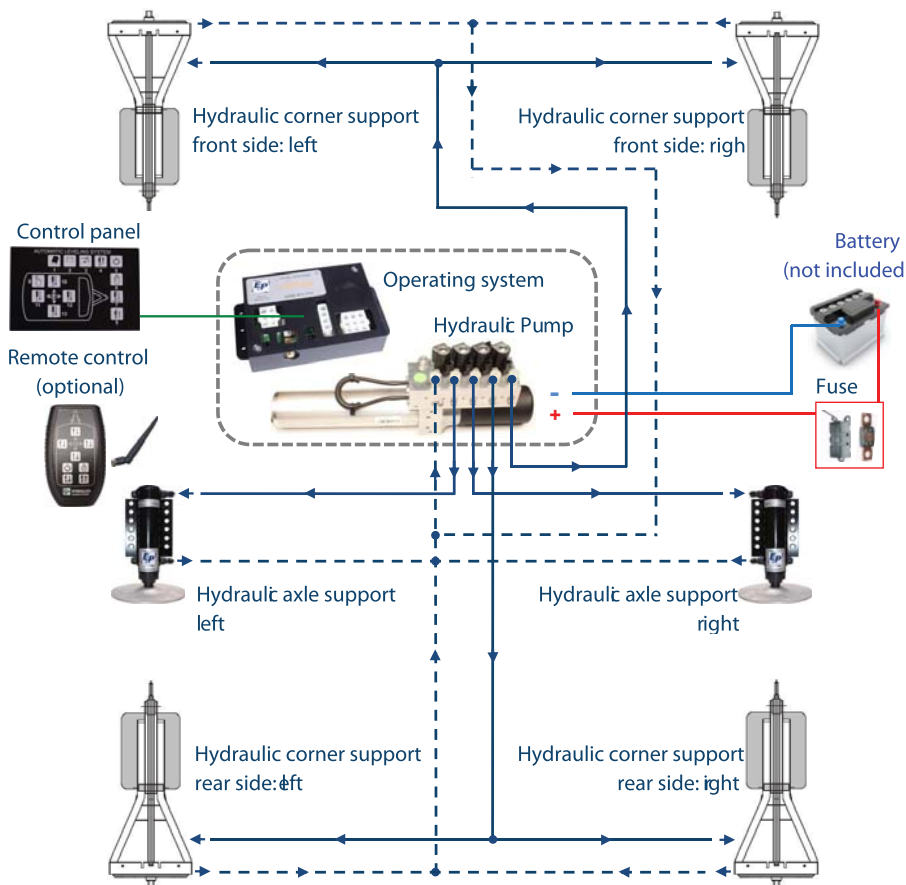
Attention: carefully turn the lock (closed) position.





Schematic diagram of the hydraulic levelsystem

Below the schematic view/diagram of the E&P Hydraulics levelsystem.





Remarks and recommendations

Below is an overview concerning remarks and recommendations (tips) of the hydraulic levelsystem:

- After 4 minutes of no operation, the system will switch off automatically.
- The automatic levelling cycle can only be started after all jacks have been retracted. If the jacks are not retracted when the automatic cycle starts, the system will do this automatically. So it is not possible to make short adjustments to the jacks; the system will always first completely retract its jacks.
- At a low battery voltage, the system will automatically switch off.
- Jacks are extended and you accidentally drive off: the system will immediately give an alarm and the jacks are automatically retracted as soon as the handbrake is disengaged. In case of vehicles with a pneumatic brake installation, this takes place when the engine is started.
- All normal functions of the system are switched off in error mode.
- The jacks always operate 2 at a time at 1 side. The left side, right side, front side and rear side. Only when retracting do they operate all 4 at the same time.
- During winter conditions (e.g. in snow and ice) put something (e.g. a piece of carpet) under the jacks to avoid sliding.
- Manual operation is mainly recommended for uneven surfaces.
- In manual operation, all four jacks should always be extended before levelling starts.
- The system cannot handle all angles, the limit values differ per caravan.
- If the system makes a slope angle that is too big and no longer responds to requests for automatic levelling, we recommend bringing the vehicle as close as possible to the zero point in manual mode.



Troubleshooting

In case of an error message, check the caravan stands are not too high at the front (front wheel must be withdrawn), whether the battery has sufficient voltage, whether the oil level is correct, whether there is any damage to the jacks, and check all the cables.

If this does not lead to a solution for the fault, the fault could be located in the drive units. As the drive unit does not have any repairable parts, you should contact your E&P Hydraulics dealer/installer.

Under normal circumstances, all LED's are off and the unit will only respond by pressing the button "ON/OFF" (no.5) switching the levelsystem on.

Problem	Possible Causes	Solution(s)
The system fails to start	Battery voltage low.	Recharge the battery, Charger is defective or there is no voltage being supplied.
The red battery lamp lights up. When the red battery lamp lights continuously, the installation is switched off for 4 minutes.		
The support jacks do not extend towards the ground when the pump is running.	Oil level too low or no oil in the system.	Check for any oil-leaks
	The pump is not working correctly.	Repair or exchange.
	There is no or bad electronic connection.	Check cables for loss of voltage.
The system does not work automatically, lamp front wheel lights up.	Caravan stands too high on the front side.	Withdrawn the front wheel.
**NOTHING works, even no LED signal.	Possible cause: the battery is fully out of order (<5V).	

IMPORTANT: For all other reports and/or malfunctioning of the system, please contact your dealer/installer.



Maintenance

The E&P Hydraulics levelsystem does not have parts that need to be maintained periodically. When parts have been taken apart, the warranty will become invalid. If necessary, parts could be substituted, repaired and/or exchanged (warranty).

WARNING: In control/service work secure the caravan by placing suitable stands under the caravan. By not doing this you create a real danger of personal injury or serious accident.

Preventative Controls

- Periodically checking the hydraulic oil level. (ONLY by dealer/installer)
 - The hydraulic oil (type: Pentosin CHF 11S) preventative replace after approx.. 36 months.
- Periodically check the electronic cables and connections.
- Periodically check the hydraulic jacks.
 - Remove dirt, sand, mud and other contamination that settles during use, it may obstruct the operation of the hydraulic levelling system.
 - If the jacks remain extended for a longer period of time, the exposed legs must be protected by weekly spraying them with a silicon lubricant. Do this every 2 or 3 days, if the caravan is located in a salty environment.
- In winter (slippery) conditions we advise you to take additional safety and precautionary measures. Especially because your safety during operation of the system. For optimal performance under extreme conditions (-30 degrees) we recommend the use of a special hydraulic oil for low temperatures (consult an authorized dealer).

Furthermore, during the winter period we have to deal with situations in which de-icing salt will tack to the outside of the system. Preventative maintenance should be:

- Good cleaning of the jacks.
- Clean the stainless steel cylinder (piston rod) and spray with a silicone lubricant.
- Remove dirt from the stainless steel foot plate (especially at the bottom, this is the area your caravan stands on)
- Try to put the caravan in a location as clean and flat as possible.
- Place a piece of rubber (e.g. piece of carpet) between the frozen (slippery) surface and the footplate.
- Before leaving make an additional check round the caravan, if necessary remove snow and ice from the jacks, then you are free to withdraw the jacks.

Warranty

Repairs to the caravan must be performed by dealers recognized by E&P Hydraulics. For systems which are not (or cannot be) changed, installed or repaired by a recognized E&P Hydraulics dealer, the warranty cannot be used.

E&P Hydraulics gives guarantees for parts of its hydraulic levelsystem against faults in material and manufacturing for a period of 24 months starting from the date of purchase. If an E&P Hydraulics product was checked by an official E&P Hydraulics dealer and a fault in material or manufacturing was discovered within the aforementioned period, E&P Hydraulics is able to choose the following actions:

- Repairing or replacing the faulty part for free in E&P Hydraulics factory or another location determined by E&P Hydraulics.
- Sending a mechanic to the location where the caravan is at that moment, in order to repair or replace the product/part on site.
- Writing out a credit note for the defective product/part.



All warranty claims require a product test and approval by (a dealer of) E&P Hydraulics. All repairs must be approved by E&P Hydraulics before the work starts. There can be no exceptions to this procedure. Immediately contact E&P Hydraulics directly before trying to perform a repair or change to your E&P Hydraulics product. Claims for alleged damages to products are only allowed if E&P Hydraulics has had the opportunity to check the claim.

The warranty becomes invalid when:

If the buyer modifies the system, or if the buyer makes settings independently. In case of abuse or negligence, overloading, damage through accident, incorrect loading or incorrect weight distribution, damage through improper use or improper maintenance, connection to wrong parts or repair attempts by other persons than the acknowledged E&P Hydraulics dealer/installer.

This warranty does not apply to physical damage, damage as a result of force majeure, in case of commercial use or adaptation of the product or for products that are sold as a special offer and/or 'with defects'.

This warranty will become invalid if the product's identification criteria, which were attached in the factory, are changed or removed.



GETTING STARTED

You have arrived at your destination and now want to start to enjoy your new Buccaneer caravan. The following is a step by step guide to connecting your services and getting everything in your caravan working.

ELECTRICITY

Power Supply Charger

Your caravan is fitted with a power supply/charger. This will charge the caravan battery "not supplied" when fitted and also power the 12V systems in your caravan.

It is recommended that you always carry a leisure battery.

The Charger is fully automatic and will not overcharge the leisure battery.

12v Systems:

Your caravan is fitted with an automatic system for selection of power.

When connected to the 230V site supply the automatic Power Supply/Charger will charge the leisure battery and the 12V systems.

When connected to the car (always disconnect 230V supply), the system automatically switches to the car supply.

When the towing vehicle's engine is running and the caravan's 13 pin plug is connected, the internal 12 volt power supply in the caravan is turned off and all internal lights will go out. The only 12 volt power left operational within the caravan is the fridge and the battery charger.

GENERATOR/CHARGER

When connecting to a generator, always switch off the RCD (residual current device), start the generator and allow running for a few minutes to stabilise. When this has happened, switch the RCD to the ON position.

ELECTRICITY MAINS SUPPLY

Your caravan's main electrical installation is designed to run on 230V at 50 hertz AC supply.

CONNECTING TO MAINS SUPPLY ON ARRIVAL AT SITE

Before connecting the caravan installation to the mains supply, check that:

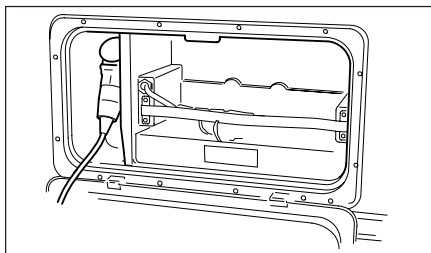
- (i) The mains supply is suitable for your installation and appliances, i.e. whether it is AC or DC and whether it is at the correct voltage and frequency.
- (ii) Your caravan is properly earthed. Never accept a supply from a socket outlet or plug having only two pins, or from a lighting outlet.
- (iii) Any residual current device (earth leakage circuit breaker) in the mains supply to the caravan has been tested within the last month. In case of doubt, consult the site owner or their agent.
- (iv) Make sure that the switch at the site supply point is off and that all electrical equipment in the caravan is switched off by ensuring your caravan mains isolating switch on the MCB (miniature circuit breaker) is in the 'OFF' position.

ELECTRICAL WARNING

Attention: Always disconnect the electrical connector between the towing vehicle and the caravan before connecting a mains electric supply to the caravan and before charging the caravan battery by any other means.

Once the above checks have been made:

- (v) Open the battery box on your caravan and insert the female connector of the mains connection cable supplied with your caravan into the inlet within the battery box as shown below.



- (vi) Locate the site supply and remove any cover from the socket outlet provided at the supply point. Insert the male plug at the other end of the flexible orange supply cable. Switch on the main switch at the site supply point (if appropriate).

WARNING: It is essential that connections are made exactly as shown. If terminal markings are not in accordance with the above diagram they must be ignored.

- (vii) Place any surplus cable under the caravan. Ensure that the surplus cable is not coiled up as it could overheat.
- (viii) Now switch on the mains isolating switch within the caravan, this can be found on the main consumer board, normally located within the nearside front bed box.
- (ix) Check the RCD is working by pressing the test button. Once pressed all electrical lights and appliances should cease to operate. Reset, and then check the electrical system is operational.
- (x) Finally in order to get your 12V system operational, ensure the 12V switch is in the 'ON' position. Refer to index for further details on the control panel fitted.

- (i) Switch 'OFF' at the caravan mains isolating switch.
- (ii) Remove the male plug from the site supply.
- (iii) Disconnect the female plug from the

CHECK all caravan equipment is set-up to accept the site supply before actually switching on.



GAS SAFETY ADVICE

In the event of a suspected gas leak the gas must be turned off using the isolation valve on the gas bottle. A competent gas fitter should then check the system before it is used/reused.

Regularly check flexible gas hose, joints and connections for tightness. Finally, make sure that each gas appliance is working efficiently to the recommendations of the appliance manufacturers.

See Index - Ventilation

FACTS ABOUT LPG

- LPG is not poisonous.
- Bi-products are harmless.
- LPG is dangerous if all air and oxygen is excluded.
- LPG has been given a smell by the manufacturers in order to identify leaks.
- The gas is heavier than air and therefore sinks to the lowest point.

AWNING SPACES, LPG AND APPLIANCE EXHAUST

There is no danger of pollution of an enclosed awning space from the LPG exhaust from a refrigerator venting into it. Space heaters may produce sufficient exhaust to pollute the awning space, if it is totally enclosed, from a general comfort, smell and hygiene point of view. In extreme cases there could be a build up of carbon dioxide to a dangerous level. Caravan owners are advised to allow some fresh air circulation in the awning space when such appliances are in use.

Please note: Ventilation holes must be clear at all times.

LPG GAS SYSTEM

Buccaneer do not recommend the use of any external cylinders. All cylinders in use should be within the gas locker provided. If you wish to utilise a larger cylinder and have this outside the gas locker then the connecting hose must not exceed 750mm.

It is recommended that no flammable material is stored or placed within 300mm of any open flame. You are advised not to use any additional gas appliances outside your caravan.

Please ensure that you have read the operating instructions for each gas appliance contained in your Owners Information Pack. Please ensure that any gas hose left unconnected is protected from dirt or other foreign bodies entering the hose.

WARNINGS

- **Fresh air circulation should be allowed below the caravan when appliances are in use and when flues terminate below the floor to allow free evacuation of the products of combustion. At least three sides of the underfloor space should always be kept open and unobstructed especially by snow. Do not make any additional openings in the floor.**
- **Outlet sockets located within the caravan should only be used with a dedicated appliance and not an independent unit.**
- **No appliance shall be used outside when connected to an internal outlet.**
- **Maintain adequate spacing of combustible materials from sources of heat.**
- **Do not use additional independent gas appliances inside the caravan.**








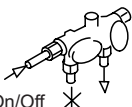
GAS SUPPLY

Your caravan is designed to operate using either propane or butane liquefied petroleum gas at 30M/bar. Gas can be obtained from your caravan dealer. Your caravan is designed to accept a maximum 2 x 6kg BP Light gas bottles.

Connection

Make sure that heating and cooking appliances and gas cylinders are switched off. Each gas appliance is connected to its own gas isolation tap under the cooker. These are identified on the tap via a label. Below is a key to identify each label.

To operate the tap the arrow on the tap shows the direction of flow for the gas. The arrow should be pointing towards the appliance for the appliance to operate. There will be a small label next to the bank of taps under the cooker, which is also reproduced below:

 Water Heater	 Cooking Appliance
 Space Heater	 Hob
 Refrigerator	 Gas On/Off

Changing a Gas Cylinder

Before commencing to change a gas cylinder ensure that the valve on the cylinder is turned fully off. Turn off all gas operated appliances. Remove the gas hose from gas cylinder.

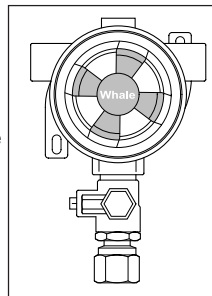
Before refitting a gas cylinder, ensure that all gas operated appliances are turned off - particularly after winterisation. Ensure all connections are secure.

When the cylinder is connected please ensure that the high pressure hose is not placed under any strain.

WARNING: If cylinders other than those recommended are used, ensure that the cylinders are adequately supported, do not block ventilation openings and cannot cause damage to fixtures and fittings located in the compartment.

Auto Changeover Gas Regulator

The Whale Auto Changeover Gas Regulator, Type 924N has been specially designed to supply a caravan or motorhome gas installation in compliance with the requirements of annex D of standard EN 12864. Supply pressure for appliances is standardised at 30 mbar for the whole of Europe.



Note: Not suitable for use in caravans or motorhomes when the vehicle is in transit.

WARNING: This product is designed for use with all liquefied petroleum gases: propane, butane and LPG.

LPG is highly flammable.

Important: In the following cases, shut off the cock on the cylinder IMMEDIATELY and contact your dealer or Whale Support +44 (0)845 217 2933:



- Abnormal combustion at the burner(s) of a gas appliance (flames too high or too low)
- Smell of gas
- Outbreak of fire

A planned maintenance schedule of regular inspection is recommended, replacing components as necessary.

We recommend the gas regulator unit be replaced every 10 years from the date of manufacture.

Instructions for use

The two inlets of the regulator are to be connected by means of two high pressure hoses complying with the specifications of Standard EN1949.

Putting into <<service>> Figure 1.

- After having checked that the indicator remains green in the two positions of the knob, turn the knob so that the arrow is facing to the right or the left. The arrow on the knob will indicate the cylinder in <<service>> use.

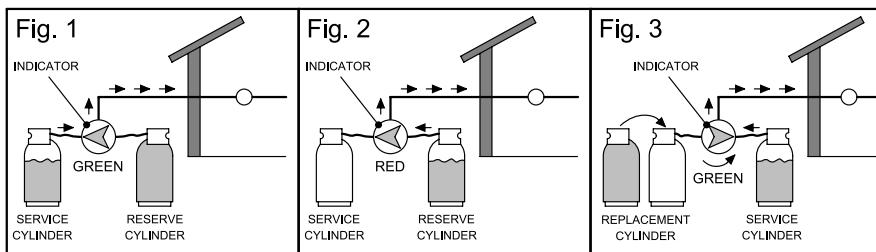
Operation of the <<reserve>> Figure 2.

- The indicator is red which means that the cylinder in <<service>> has run out. It is now empty and the installation is operating on the <<reserve>> cylinder.

Replacing the empty cylinder, Figure 3.

- Turn the knob halfway. The cylinder that was previously in <<reserve>> will become the cylinder in <<service>> the indicator will turn green as usual. If it stays red, this means the system has been operating on the <<reserve>> cylinder for too long and that this one is also empty. It will therefore be necessary to change both cylinders.
- Close the tap on the empty cylinder. Disconnect the cylinder.
- Connect the full cylinder. Check that the connections are properly closed and that there is no leakage by using leak detection fluid. The indicator must stay green.

After carrying out a check, reposition the arrow on the cylinder previously in use in order to empty it. The new cylinder is now the <<reserve>> cylinder for the system.





WATER SYSTEM

High Flow Watermaster Pump with Intelligent Control (IC)

The Watermaster IC unit is a means of control for the Whale Watermaster high flow system, which allows it to operate without the need for pressure switch adjustment. It offers three key features, eliminates rapid water pulsation, ensures that the pump turns off at low battery voltages and in a run-dry situation when the water supply runs out.

Installation

Please note - The manufacturer cannot be held responsible for claims arising from incorrect installation, unauthorised modification or misuse of this product.

Before installing, please check that the submersible pump can reach the bottom of the water container and that there is access to the back of the socket.

To connect the IC Control Unit (back of socket)

- Step 1 - Switch off the 12V d.c. supply at the main panel (isolator switch)
- Step 2 - Unplug the spade connections on the water inlet socket - ensuring that you note the order of wires for reconnection with the Watermaster IC (See Fig 1 and Fig 2).

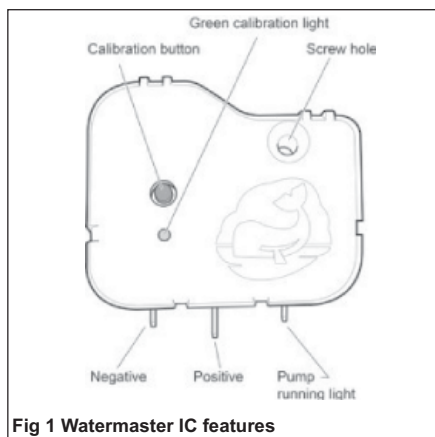


Fig 1 Watermaster IC features

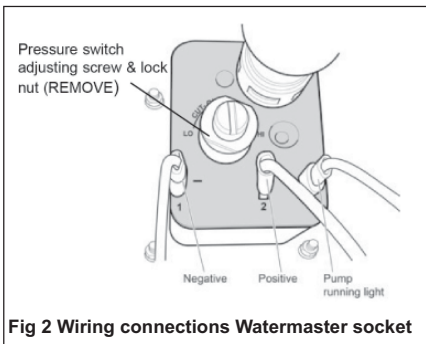


Fig 2 Wiring connections Watermaster socket

- Step 3 - Unscrew and remove the pressure switch adjusting screw and locking nut (see Fig 2)
- Step 4 - Remove securing screw (see Fig 3)

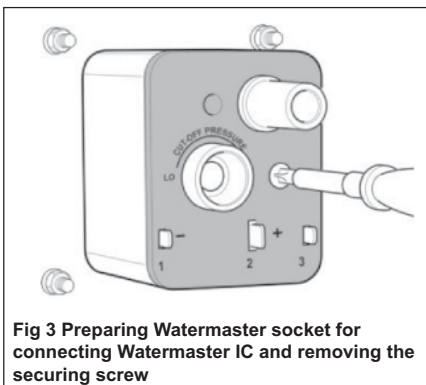


Fig 3 Preparing Watermaster socket for connecting Watermaster IC and removing the securing screw

- Step 5 - Take Watermaster IC and place countersunk screw into screw holes (see Fig 4)

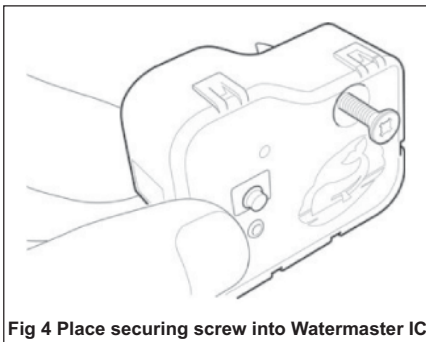
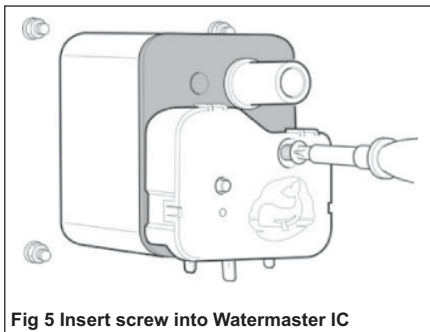


Fig 4 Place securing screw into Watermaster IC



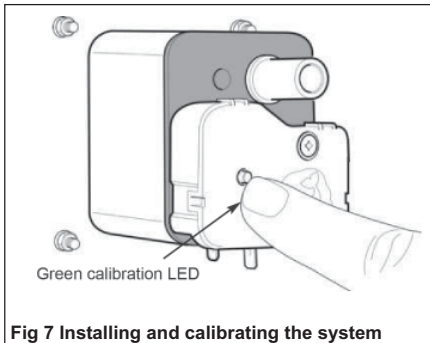
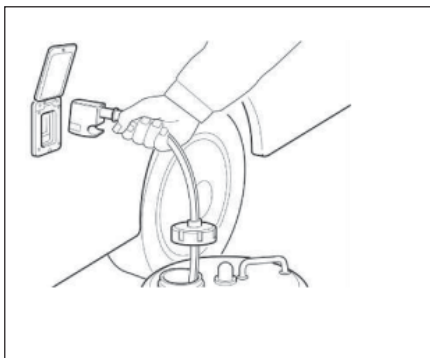
- Step 6 - Plug Watermaster IC onto socket (see Fig 5) and tighten screw (**NB** - Do Not Overtighten)



To connect the plug and pump kit

Priming:

- Step 1 - Place pump into a full water container (Fig 6).



- Step 2 - Insert plug into wall socket and close lid to lock plug in place.
- Step 3 - Adjust dust cover over opening in container (**Note:** dust cover should not be secured to water container as air must be allowed to enter container to replace water being pumped out).
- Step 4 - Switch on 12 volt supply at main panel (Isolator switch) - the pump should start to run.
- Step 5 - Open one cold tap (eg. kitchen sink)
- Step 6 - After trapped air has been expelled, water will flow from the open tap.
- Step 7 - When air has been expelled turn off tap, the pump should turn off after approximately 10 seconds.

To calibrate the System

- Step 1 - Press and hold the calibration button until the green LED starts to flash after 1-3 seconds (Fig. 7)
- Step 2 - Open the tap and the pump should start (there maybe a short delay)
- Step 3 - After approximately 30 seconds, turn off the tap
- Step 4 - After approximately 10 seconds, (the pump should still be running), press the calibration button again
- Step 5 - The LED should turn solid green and the pump will stop after approximately 10 seconds. The green LED should turn off and blink briefly every 5 seconds. The system is now calibrated.

The Watermaster IC is now installed and your water system is ready for use.

Note: In normal operation the pump may continue to run for up to 15 seconds after the tap is closed.



Instructions for Pump Storage when not in use

Pump hose can be inserted into groove on plug to keep pump off ground while refilling water container (Fig. 8). The plug should always be removed before moving the caravan.

When removing plug:

Step 1 - Lift the lid to unlock the plug

Step 2 - Pull out plug from socket using hand grip

Step 3 - Shut lid

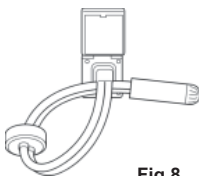


Fig 8

Maintenance

The Watermaster IC control unit (located on the back of the socket) is designed to be service free and does not contain serviceable parts. Please note that the unit is enclosed to protect the electronics, opening the unit will result in damage, and will invalidate warranty.

A planned maintenance schedule of regular inspection is recommended, for the Watermaster pump kit and socket replacing components as necessary. Replacement components are available in service kits from dealers.

For information on replacement parts and service kits, please visit www.whalepumps.com.

Helpful Hints

Note: If at any stage the user experiences less than optimum performance from the Whale Watermaster IC, recalibrate the system as per steps outlined above.

To obtain efficient running and maximum pump life, ensure the following:

- There is sufficient water in the container.
- Maximum pumping period is not more than 15 minutes.
- All hose connections are firm and water tight
- When replenishing the water supply, it is possible to create an air lock in the pump. As a result, the pump will run noisily and give no discharge. To remedy, unplug from the socket while keeping the pump submerged to dislodge the air pocket in the pump. Also shaking the dual hose gently may dislodge the air pocket in the pump, or switch off pump at main panel, open a tap outlet and switch pump on again at the main panel.



Troubleshooting

(a) If the pump will not run:

- Check at least one tap is open
- Turn the pump isolation switch off and on again
- Check the battery condition
- Check the mains isolator switch is on
- Check the pump isolator switch is on
- Check the contacts in the plug and socket are clean and making contact
- Check wiring connections
- Check fuse (see fuse box)

(b) If the pump cycles on/off with all taps and shower closed:

- Check for air or water leaks in taps and piping
- Check that non return valve in socket is free from grit by pushing a suitable blunt object, for example a ballpoint pen into the socket nipple against the non-return valve holding the valve open to dislodge trapped grit.
- Recalibrate the system (see calibration section of the installation section)

(c) If pump motor runs steadily and does not stop after 30-40 seconds:

- Check all connections in pipework
- Recalibrate the system

Diagnostic Codes

To aid with troubleshooting the LED on the back of the Watermaster IC has a number of different flash codes as described in the table below:

LED	State	Description
Green	Constant On	Tap open, pump running
Green	Fast Flash (< 1 sec)	In Calibration Mode
Green	200ms blink every 5 sec	Calibrated and ready for use
Green	200ms blink every 10 sec	Un-calibrated
Green	200ms blink every 15 sec	Suspended due to dry run need to turn pump switch on and off
Green	200ms blink every 20 sec	Suspended due to low battery voltage, turn pump switch on/off, need to charge battery

Winterising

Watermaster IC does not require any additional winterising. For details of how to drain your water system for winterising please see www.whalepumps.com/rv.



ELECTRICAL SYSTEM

12v POWER SUPPLY

Battery Installation

Your caravan will be fitted with a BCA Leisure charging and power distribution unit.

If you wish to install a leisure battery please ensure that it is placed on the battery tray supplied with your caravan. Then place the tray in the battery locker fitted to the side of your caravan. Connect the battery to the clamp fittings connected to the connection leads within the battery box.

The type of leisure battery you should utilise will depend on how you wish to use your new caravan. If you are going to only use your caravan when it is connected to a mains supply and do not have a motor mover fitted, then any good standard leisure battery rated at least 85 ampere-hours at 20 hour discharge rate is sufficient. However, if you are going to use your caravan without a mains connection or have a motor mover fitted, then an AGM type battery rated at least 85 ampere-hours at 20 hour discharge rate is recommended.

Battery Maintenance

Your leisure battery should be maintained in accordance with the manufacturer's instructions. For information on the automatic charging system in your caravan please refer to 'Automatic Charging System' in the index.

Do not charge your leisure battery with any charger other than that supplied. Failure to comply may cause damage to your battery. If you remove your leisure battery, ensure that it is not placed on a cold surface as the battery will deteriorate more rapidly than if stored at a suitable temperature

Generators / Charger

All electrical equipment fitted in your new caravan can be run from either a controlled generator or charger whose output is maintained between 11volts and 14volts.

At least once every 3 years, the caravan electrical installation should be inspected and tested, and a report on its condition obtained, as prescribed in British Standard BS7671.

230v POWER SUPPLY

Mains Unit

The Mains Unit replaces the conventional fuse box. Similar, but larger ones are often fitted in new houses. The unit, normally located in the wardrobe, gives overloads and earth leakage protection for the 230V electrical supply in your caravan.

For normal operation all switches on the unit need to be in the ON position. The switches on the left of the unit are known as MCB's (miniature circuit breakers). These take the place of the conventional fuse but are more convenient. In the event of a fault the MCB 'trips' i.e. automatically moves to the OFF position. After elimination of the fault the MCB can be re-set by switching to the ON position (against the spring pressure in an upwards direction). If an earth fault develops, or a person was to touch a live piece of equipment, the leakage of current to earth should immediately operate the RCD (residual current device) and 'trip' the main switch, to the OFF position. This switch can only be re-set after elimination of **the fault**.

Please Note: In case of difficulty, consult an approved electrical installation contractor (who may be the local electricity board). It is dangerous to attempt modifications and additions yourself. Lamp holder-plugs (bayonet- cap adaptors) should not be used under any circumstances.

Resetting the RCD

To re-set, operate the switch as for MCB's. Periodically, the RCD should be checked by operating the test button marked 'T'. The unit should immediately switch to the OFF position. If the unit does not switch off then a qualified electrician should be consulted. If the unit does switch off, the test is complete and the switch can be re-set restoring the supply back to normal.

Please note: Simultaneous operation of all of the 230V mains electrical equipment may not be possible. A typical UK caravan site mains hook-up point provides a maximum output of 10 amps and on some continental sites the available output may be as low as 5 amps. If your loading exceeds the site supply



it may trip the site circuit breaker. Please check the available mains output with your site operator. The following items need to be added together if used simultaneously.

230V mains equipment typical consumption figures:

- Refrigerator 0.50 amps
- Charger 0.50 amps
- Water heater 3.9 amps
- Colour TV 3.33 amps
- Microwave 4.00 amps
- Air conditioning 4.00 amps

AUTOMATIC CHARGING SYSTEM

The battery charger will operate automatically when the caravan is connected to the mains outlet on a caravan site. The 12V system, with the exception of the 12V refrigerator and battery charging, will not operate when the caravan is connected to the towing vehicle.

CHECK all caravan equipment is set-up to accept the site supply before actually switching on.

MAXIMUM BULB RATINGS FOR INTERNAL LIGHTS

Type of Light	Maximum Bulb Rating
Front window light	4 watts
Downlighters	1.2 watts
Reading lights	1.2 watts
Floor LED	0.36 watts
Above locker strip lights 500mm	1.2 watts
Above locker strip lights 800mm	2.2 watts
Awning lights	5 watts

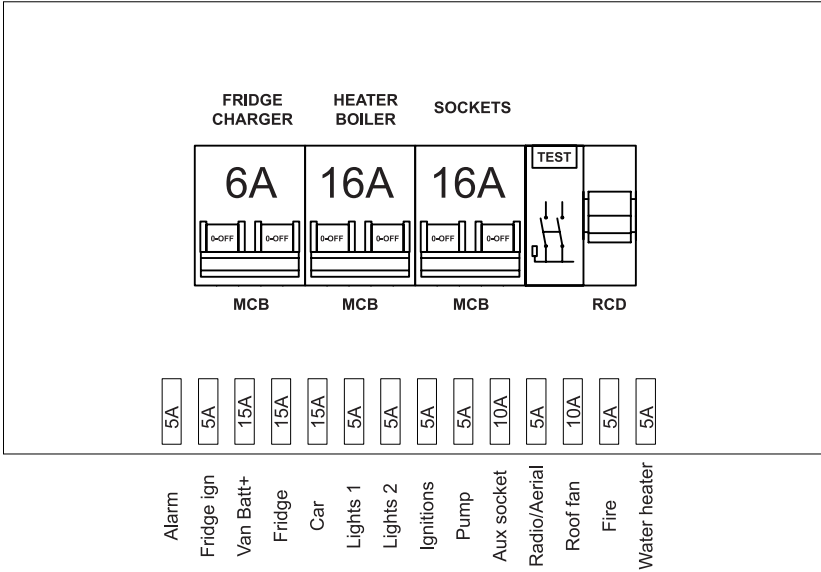
Please note: Ensure that you only replace a blown bulb with one of the same rating. Never replace a bulb with one with a higher rating. You should ensure that when fitted, no bulb is in contact with the surface of the lamp or shade.

Note: All LED lights can only be replaced with a new complete unit and not a replacement bulb.

CAUTION: Do not look directly at LED lights.



MAINS UNIT





HOW TO USE YOUR CARAVAN'S EQUIPMENT

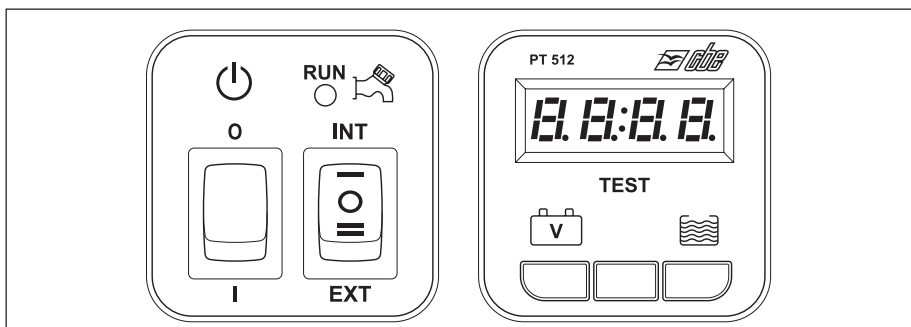
Congratulations on your purchase of a new Buccaneer caravan. Within this section of your caravan's handbook we will give you brief details on how to operate all of the caravan's equipment from the gas cooking equipment to the window blinds. For further details on the major equipment within your caravan please read the individual appliance instructions contained with your user information pack.

Please note: Before attempting to use any gas equipment please ensure that the gas bottle is connected securely to the caravan's regulator via a high pressure gas hose and the bottle valve is in the 'on' position. Also ensure the appliance isolation valves are in the 'on' position as shown in the gas system section.

Please note: Before attempting to use any electrical appliance ensure that you have connected the mains connection cable to a mains hook up and that the mains isolation switch is in the 'on' position.



Control panel



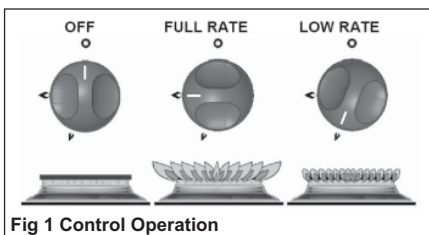
- (i) To operate the 12V systems for your caravan depress the master switch adjacent to the pump control switches.
- (ii) To operate the pump for your water system depress the left hand rocker switch for operation from an external water source. (Aqua roll or Water line).
Note: the right hand switch must be in the centre position.
- (iii) To fill on the onboard water tank the left hand rocker switch must remain in the on position then depress the right hand rocker switch to the EXT position. Once the tank is full the pump will automatically switch off.
- (iv) To use water from the on board water tank the left hand switch must remain in the on position then depress the right hand switch to the INT position.

Digital readout

- (v) When the left hand button is depressed the available battery voltage will be displayed.
- (vi) When the right hand button is depressed the available water in the water tank will be displayed (Note this is to be used as a guide only).



COMBINED COOKER, HOB, OVEN AND GRILL



WARNINGS

- Use only the gas pressures specified.
- This appliance is approved for use with Propane and Butane. We recommend using Propane gas for this appliance.
- Butane gas may be used, although the appliance performance may be compromised when the ambient temperature is below 10°C.
- Butane should not be used when ambient temperature is below 5°C.
- Before using the appliance for the first time, remove all accessories and packing in the grill and oven, including any plastic surface protection film.
- Clean all surfaces with hot soapy water to remove any residual protective covering of oil and rinse carefully.

The burners on this appliance have fixed aeration and no adjustment is required. The burners should flame as follows:

Propane - The flames should burn quietly with a blue/green colour with no sign of yellow tips.

Butane - Normally on initial lighting, a small amount of yellow tipping will occur. This then increases slightly as the burner heats up.

LPG is a mixture of Propane and Butane, therefore the exact flame appearance depends upon the proportions of Propane and Butane in the gas being used. Correct burner operation can only be determined by the use of a calibrated combustion gas analyser by a competent operative, in accordance with relevant European and National Standards.

The burners are controlled individually and each is monitored by a thermocouple probe. In the event the burner flames are accidentally extinguished, turn off the burner control and do not attempt to re-ignite the burner for at least one minute.

Operation

Using the hotplate gas burners

1. Ensure gas supply is connected and turned on.
2. Push in the control knob and turn anti-clockwise to full rate - large flame (see Fig 1).
3. Continue depressing the knob whilst holding a lighted match or taper to the burner. For models fitted with spark ignition the procedure is similar except that the burner is ignited by depressing the ignition button located on the fascia.
4. After the burner is lit, continue depressing the knob for approximately 10-15 seconds.
5. Release knob and turn to required heat setting.
6. If burner has not lit within 15 seconds, release knob and wait at least 1 minute before repeating operations (2) to (5).
7. To turn off, rotate the control knob until the line on the knob is aligned with dot on the control panel. Always make sure the control knob is in the off position when you have finished using the hotplate burners.

Each burner will support pans from Ø10 to Ø22cm. Care should be taken not to overload the appliance as performance may be reduced. The following are the maximum pan sizes that we recommend:

Electric Hotplate: Ø180mm

Auxiliary Burner: Ø200mm

Semi-Rapid 2 x Ø200mm or 1 x

Burners: Ø220mm with 1 x Ø180mm.

When using small pans, the flames should not spread beyond the base of the pan as this will reduce the efficiency of the burner. Avoid using old or misshapen pans as these may be unstable and may also affect efficiency.

The glass lid must be fully opened before using the hotplate burners.



Using the Electric Hotplate

1. Ensure the electricity is switched on.
2. The hotplate control is numbered from 1 (Low) to 6 (High). To turn on, rotate the knob either clockwise or anti-clockwise to the required position.
3. To turn off, rotate the knob until the line or pointer on the knob lines up with the zero on the control panel.

The hotplate is a sealed construction and transfers heat through conduction. For maximum efficiency a correctly sized pan with a flat heavy gauge base should be used. Pan size should be the same or slightly larger (up to 1 1/2.5cm oversize).

Before using your hotplate for the first time, we recommend that you prime and season it.

To prime the hotplate, switch on the hotplate for a short period, without a pan, to harden and burn off the coating. Use a medium to high setting for 3 - 5 minutes. A non toxic smoke may occur during this process. Allow it to cool, then season.

To season the hotplate, first heat the hotplate for 30 seconds on a medium setting, then switch off. Pour a minimal amount of unsalted vegetable oil onto a clean dry cloth or paper towel and apply a thin coat of oil to the hotplate surface. Wipe off any excess oil, then heat the hotplate on a medium setting for 1 minute. Occasional seasoning will help to maintain the hotplate's appearance.

Operation

Depending on specification, your appliance may be fitted with a glass lid shut-off system, which cuts off the power to all hotplate burners (gas and electric) if the lid is closed. Ensure the glass lid is open before turning on the hotplate burners.

Remove all spillage from the surface of the glass lid before opening.

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

Using the Grill

1. Ensure the gas cylinder is connected and turned on.
2. Open door, push in the control knob and turn anti-clockwise to large flame symbol.
3. Continue depressing the knob whilst holding a lighted match to the burner. For models fitted with spark ignition the procedure is similar except that burner is ignited by depressing the ignition button located on the fascia.
4. After the burner is lit continue depressing the knob for approximately 10-15 seconds before releasing the knob.
5. If burner has not lit within 15 seconds, release knob and wait at least 1 minute before repeating operations (2) to (4).
6. To turn off, rotate the control knob until the line on the knob is aligned with dot on the control panel.
7. Always make sure the control knob is in the off position when you have finished grilling.
8. Ignition must always be carried out with the grill door open.
9. Accessible parts may be hot when the grill is in use. Young children should be kept away.

On first use of the grill, it should be heated for about 20 minutes to eliminate any residual factory lubricants that might impart unpleasant smells to the food being cooked. A non-toxic smoke may occur when using for the first time, open any windows and turn on mechanical ventilators to help remove the smoke.

Although the grill heats up quickly, it is recommended that a few minutes preheat be allowed. It is normal for the flames on this burner to develop yellow tips as the grill heats up.

Depending on the food to be cooked the correct grilling height can be achieved by inverting the pan trivet into either the high or low position.

The grill area can get hot when the oven is in use, even if the grill is switched off.



Care should be taken when removing pans from the grill, i.e. use of oven gloves and by making use of the removal grill pan handle.

The grill pan supplied is multi-functional, for use in grill oven. The handle design allows removal or insertion whilst the pan is in use. Always remove the handle when the pan is in use. The grill must only be used with the door open.

Operation

Using the Oven

1. Ensure gas cylinder/supply is connected and turned on.
2. Open door, push in the control knob and turn to full rate (Gas Mark 9, 240°C).
3. Continue depressing the knob whilst holding a lighted match or taper to the burner.
4. After the burner is lit continue depressing the knob for approximately 10-15 seconds.
5. Release the knob and turn to required heat setting.
6. If the burner has not lit within 15 seconds, release knob and wait at least 1 minute before repeating operations (2) to (5).
7. Place the oven shelf in the required position and close the door.
8. Although the oven heats up quickly a 10 minute preheat is recommended. The oven should reach full temperature in about 15-20 mins.
9. To turn off, rotate the control knob until the line on the knob is aligned with dot on the control panel.
10. Always make sure the control knob is in the off position when you have finished.

For models fitted with spark ignition the procedure is similar except that the burner can be ignited by depressing the ignition button located on the fascia. Ignition must be carried out with the door open.

The oven shelf has been designed to allow good circulation at the rear of the oven. A raised bar at the rear of the shelf prevents

trays or dishes making contact with the back of the oven. To remove a shelf, pull forward until it stops, raise at front and remove. Installation of a shelf is the reverse of this procedure.

Operation

Before first use we recommend heating the oven for about 30 minutes at 200°C, to eliminate any residual factory lubricants that might impart unpleasant smells to the meals being cooked. A non-toxic smoke may occur when using for the first time so open any windows and turn on mechanical ventilators to help remove the smoke.

WARNING: The pans and trays supplied with this appliance are the maximum sizes recommended for use. Larger pans and trays may restrict good circulation of heat, increasing cooking times.

Always ensure food is properly cooked prior to serving.

Oven Temperature Control

The temperature in the oven is controlled by a thermostatic gas tap and is variable over the range of 130°C to 240°C. The table on next page giving a guide to the approximate temperatures at each of the shelf positions with respect to the gas mark setting.

Good use can be made of the temperature variation between the shelf positions in several dishes requiring different temperatures may be cooked at the same time. In this way maximum benefit can be obtained from the gas used to heat the oven.

Care should be taken not to overload the oven, allow adequate spacing to ensure free circulation of heat. When roasting with aluminium foil ensure the foil does not impair circulation of heat or block any oven flue outlet.



HOW TO USE YOUR CARAVAN'S EQUIPMENT



Gas Mark					Dish
1/4 - 1/2	90°C	110°C	130°C	Very cool	Meringues
1	110°C	130°C	150°C	Cool	Stewed fruit
2	120°C	140°C	160°C	Cool	Rich fruit cake, rice pudding
3	130°C	150°C	170°C	Warm	Baked custard, shortbread finger
4	140°C	160°C	185°C	Moderate	Victoria sponge
5	155°C	180°C	200°C	Fairly hot	Whisked sponges, ginger nuts
6	170°C	190°C	215°C	Hot	Short crust pastry
7	185°C	210°C	230°C	Hot	Bread, scones, flaky pastry
8	200°C	220°C	245°C	Very hot	Puff pastry
9	215°C	240°C	260°C	Very hot	Quick browning

Do's and Don'ts

- DO Read the user instructions carefully before using the appliances for the first time.
- DO Allow the burners to heat before using for the first time, in order to expel any smells before the introduction of food.
- DO Clean the appliance regularly.
- DO Remove spills as soon as they occur.
- DO Always use oven gloves when removing food shelves and trays from the oven.
- DO Turn pan handles away from the front so that they cannot be caught accidentally.
- DO Check that controls are in the off position when finished.

- DO NOT Allow children near the cooker when in use.
- DO NOT Allow fats or oils to build up in the oven trays or base.
- DO NOT Use abrasive cleaners or powders that will scratch the surface of the appliance.
- DO NOT Under any circumstances use the oven as a space heater.
- DO NOT Put heavy objects onto open grill and oven doors.

Leaks

If a smell of gas becomes apparent, the supply should be turned off at the cylinder IMMEDIATELY.

- Extinguish naked lights including cigarettes and pipes.
- Do not operate electrical switches.
- Open all doors and windows to disperse any gas escape.
- Never check for leaks with a naked flame, use a leak detector spray.
- Check the gas is not escaping from an unlighted appliance.



Refrigerator

Operation

The refrigerator is equipped to operate on three power modes:

- **Mains voltage (230V AC)**
- **Direct-current voltage (12V DC)**
- **Gas (liquid gas propane/butane)**

Select the desired power mode by the **energy selector switch** (battery igniter type models) or the **energy selector button** (MES, AES). Appliances with automatic energy selection (AES) are additionally provided with "automatic mode" function. Then the AES system automatically selects the best energy source for each particular situation.

The cooling unit is silent in operation.

When the appliance is first put into operation, there may be a mild odour which will disappear after a few hours.

The refrigerator will take several hours to reach its operating temperature in the cooling compartment. The freezer compartment should be cold about one hour after switching on the refrigerator.

Cleaning

Before starting up the refrigerator, it is recommended that you clean it inside and repeat this at regular intervals.

Use a soft cloth and lukewarm water with a mild detergent. Then wipe out the appliance with clean water and dry thoroughly.

To avoid material alterations, do not use soap or hard, abrasive or soda-based cleaning agents. Do not allow the door seal to come into contact with oil or grease.

Maintenance

- In compliance with the applicable regulations, please note that the gas unit and the connected ventilation ducts must be checked by authorised technical personnel after first use and after every other year for compliance with the European Standard EN 1949. A test certificate has to be issued. **It is the user's responsibility to arrange this test.**
- The gas burner must be inspected and cleaned as necessary at least once a year. When using liquefied petroleum gas (tank or refill cylinders) the maintenance interval is reduced to half-yearly or quarterly. Keep the evidence of maintenance work carried out on your refrigerator.
- Work on gas and electrical equipment shall be carried out by qualified personnel only. It is recommended that this is carried out by an authorised customer care department.

We recommend maintenance following an extended shutdown of the vehicle. Please contact our customer care.

Electrical operation

12V-voltage (on-board power supply)

CAUTION: The refrigerator should only be used in 12V DC operation while the vehicle's engine is running, otherwise the on-board battery would be discharged within a few hours.

Mains power (230V)

CAUTION: This option should only be selected where the supply voltage of the connection for power supply corresponds to the value specified on the data plate. Any difference in values may result in damage to the appliance.



Manual energy selection/automatic ignition on MES:

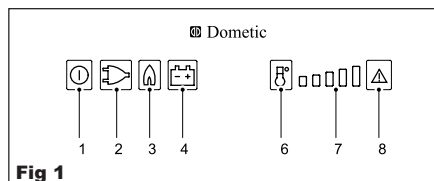


Fig 1

- 1 = Power ON/OFF switch
- 2 = Energy selector button 230V ~
- 3 = Energy selector button GAS
- 4 = Energy selector button 12V =
- 6 = Temperature level selection
- 7 = Temperature level display
- 8 = Indicator LED failure / Reset button GAS FAILURE

Switching ON/OFF

- Switch ON by pressing button (1), 2s
- Switch OFF by pressing button (1), > 2s

230V AC operation

- Select "Mains voltage" by pressing button (2)
- Set temperature step by pressing button (6)

12V DC operation (vehicle's battery)

- Select "Battery voltage" by pressing button (4)
- Set temperature step by pressing button (6)

Gas operation

- Select "Gas" by pressing button (3)
- Set temperature step by pressing button (6)

RMS8551 models

MES appliances (manual energy selection)

Electrical operation

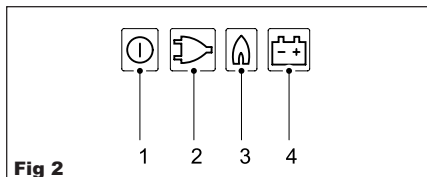


Fig 2

To start the refrigerator, press button (1) for 2 seconds.

The refrigerator starts with the last selected type of energy.

230V operation:

Press button (2):



12V operation:

Press button (4):



Gas operation

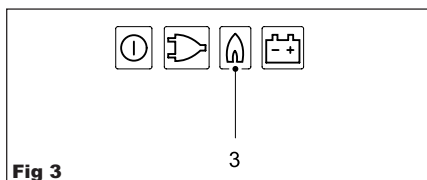


Fig 3

Gas operation:

Press button (3):

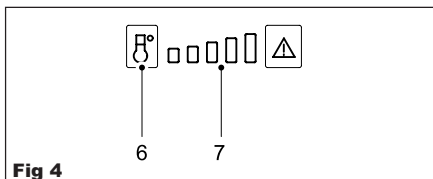


The ignition process is activated automatically by means of an automatic igniter.

The flame extinguishes after reaching the pre-set cooling compartment temperature and ignites again if the cooling compartment temperature increases again. If the flame is not lit after the first ignition attempt, the automatic igniter repeats the ignition twice (duration 30s) at time intervals of 2 minutes. If the flame is not lit afterwards, a fault is indicated.



Setting of cooling compartment temperature



Select the desired cooling compartment temperature by pressing button (6).

The LED display (7) of the selected temperature setting is illuminated.

The scale starts with **MIN position** at the left LED position (small bar = highest temperature) and climbs up to **MAX position** at the right LED position (large bar = lowest temperature).

Note: The temperature levels do not relate to absolute temperature values.

Door locking

CAUTION: As a basic rule, shut and lock the refrigerator before you start your journey!

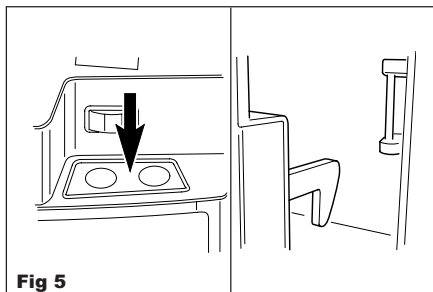


Fig 5

Open the door by pressing the locking button and pull open (Fig 6).

Shut the door again by pushing it to close. The snapping into the lock can be heard.

While the vehicle is parked, the locking hook may be fixed to facilitate opening of the door.

Fastening and releasing the door lock when parking the vehicle

If the vehicle is parked for a longer period of time, the locking hook may be clamped by means of a lockbar. The door may now be opened by just pulling it without need of pressing the locking button.

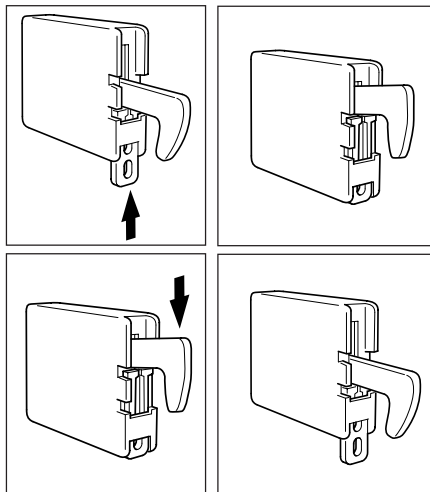


Fig 6



Removable freezer compartment

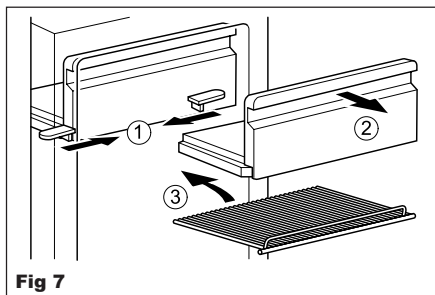


Fig 7

To enlarge the cooling space, just remove the freezer compartment.

Unlock the freezer compartment on both sides and pull it out.

Store the freezer compartment safely in order to prevent damage.

Positioning the storage racks

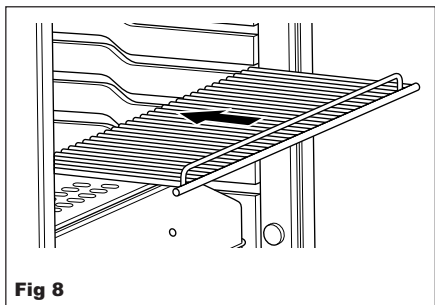


Fig 8

The storage racks may be pulled out by smoothly lifting them and may be positioned as desired.

Note: Once the freezer compartment is removed, an additional storage rack may be installed. The storage rack is a piece of extra equipment and may be obtained by Dometic.

General advice

- Switch the refrigerator on approximately 12 hours before filling it.
- Always store pre-cooled foods in the refrigerator. Make sure that the food is well cooled when it is bought and also when transporting it. Use insulated cooling bags.
- Open the refrigerator door only for a short period of time when removing goods.
- Foods must be packed - best of all in closed containers, wrapped in aluminium foil or similar - and stored separately from each other, in order to prevent drying out or odours.
- Allow foods that have been warmed up to cool down before storing.
- Avoid storing products in the refrigerator that could emit volatile flammable gases.
- Do not expose the refrigerator to direct sunlight. Please bear in mind that the temperature inside a closed vehicle increases sharply if exposed to sunlight and that this can reduce the efficiency of the refrigerator.
- Ensure that air circulation of the cooling unit is not obstructed. Keep the ventilation grills free from obstructions.

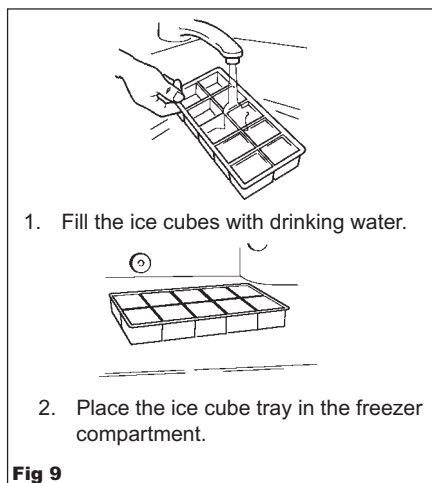
Storing food in the freezer compartment

- Do not keep carbonated drinks in the freezer.
- The freezer compartment is suitable for making ice cubes and for short-term storage of frozen foods. It is not suitable as a means of freezing foods.

WARNING: When ambient temperatures are lower than +10°C and the refrigerator is exposed to these temperatures for extended periods of time, an even regulation of freezer temperature cannot be guaranteed for system-related reasons. This can cause the temperature in the freezer to rise and the stored goods to defrost.



Making ice cubes



Ice cubes are best frozen overnight. At night, the refrigerator has less work to do and the unit has more reserves.

WARNING: Only use drinking water!

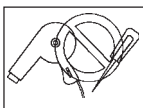
Defrosting

As time goes by, frost builds up on the fins inside the refrigerator. A layer of frost thicker on one side may occur and does not represent a malfunction. When this layer of frost is about 3mm thick, the refrigerator should be defrosted.

- Switch off the refrigerator, as described further on.
- Remove all food and the icecube tray.
- Leave the refrigerator door open to allow air to enter and to prevent formation of mildew.
- After defrosting (freezer compartment and fins free of frost), wipe both cooling compartments dry with a cloth.

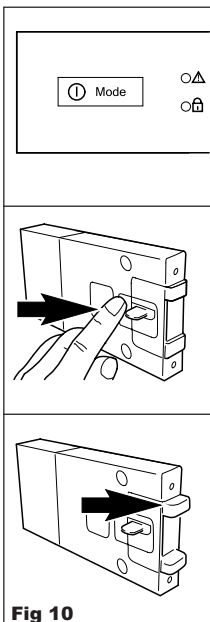
Note: Water thawing in the main compartment of the refrigerator runs into an appropriate container at the back of the refrigerator. From there, the water evaporates.

WARNING: The layer of ice must never be removed forcibly, nor may defrosting be accelerated using a heat source.



Switching off refrigerator

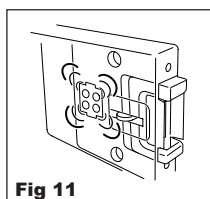
- Press the MODE button to switch off. Keep button (A) pressed for two seconds. The display disappears and the appliance is fully switched off.
- Release the locking mechanism of the door lock by pushing it and shift it to the front. If the door is shut in this position, a small gap is nevertheless kept open to prevent formation of mildew.
- If the refrigerator is to be taken out of service for an extended period of time, close the onboard shut-off valve and the cylinder valve.



Lighting

The interior lighting is controlled using a door contact. Should the door be kept open more than 2 minutes, an acoustic signal is initiated (pulsing whistle tone).

Please contact the authorized Dometic Service if a failure occurs.



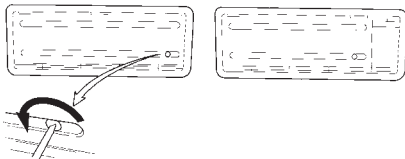


Winter operation

1. Check that the ventilation grills and the extractor have not been blocked by snow, leaves or similar.



2. When the ambient temperature falls below +8°C, the optional winter covers should be fitted. This protects the unit from excessively cold air.



3. Affix the cover and fasten it.

TIP: It is also recommended that the winter cover should be used when the vehicle is taken out of service for an extended period of time.



ALDE HEATING

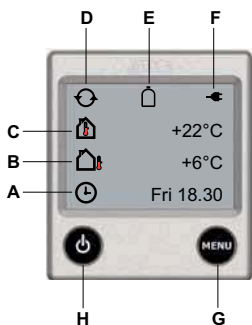
Alde 3020 Control Panel



Starting the boiler

- Press the On/Off button and the start-up display is displayed. The boiler starts with the last selected setting.

The control panel in standby mode



- A. Clock**
The clock shows day and time.
- B. Outdoor temperature**
The outdoor temperature is displayed if a sensor probe is mounted.
- C. Indoor temperature**
The indoor temperature is displayed automatically.
- D. Circulation pump**
This symbol is displayed when the heating pump is requested.
- E. LPG bottle full/empty**
This symbol is displayed when the sensor on the cylinder changeover is connected and activated.

F. 230 volts

This symbol is displayed when 230V is connected to the boiler.

G. MENU button

Button for setting menu.

H. On/Off button

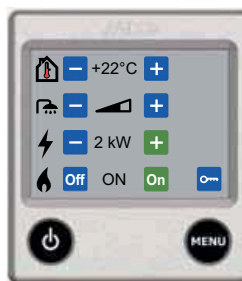
Shut down / turn on the boiler.

From standby mode to setting menu

When on standby, the indoor temperature is displayed and the outdoor temperature is displayed if an outdoor temperature sensor has been connected. The background lights up when you press the screen or the MENU button. Start the setting menu by pressing the MENU button. The background lights up and those functions which can be set are displayed. The settings are automatically saved after 10 seconds. The control panel reverts to standby automatically after 30 seconds if no buttons are pressed (or if the MENU button in the setting menu is pressed).



Control panel in standby

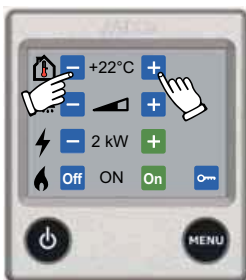


Control panel in setting



Set the required temperature

The temperature can be set from +5°C to +30°C in steps of 0.5°C. Warm water is always available (50°C) when the boiler is on and running on LPG or electricity. During summer, when only warm water is required, adjust the temperature setting to below the surrounding temperature so that the central heating pump does not start.



1. The temperature displayed is the temperature which is set at present (in this case 22.0°C).
2. Raise the temperature by pressing the + button. Lower the temperature by pressing the - button.
3. The settings are ready and the central heating pump will work at the set temperature.

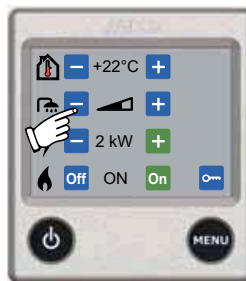
Extra warm water

If you need more warm water, you can raise the water temperature temporarily from 50°C to 65°C. After 30 minutes, the boiler reverts to normal operation. When you have selected more warm water the circulation pump stops.



1. Increase the quantity of warm water by pressing the + button. When activated the plus symbol changes colour to green.
2. The settings are ready.

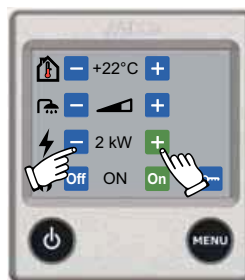
If you wish to revert to the basic warm water settings before 30 minutes have expired.



1. Reset the warm water by pressing the - button.
2. The settings are ready.

Heating with electricity

Do as follows to activate heating with electricity. The greater the power, the better the heating performance. In choosing between electricity and gas, electricity is given priority.



1. Start and step between the various power steps (Off, 1kW, 2kW or 3kW) with the + button or - button. The set value is displayed on the screen. When activated the plus symbol changes colour to green. (Certain boilers are equipped with max. 2kW).
2. The settings are ready and the boiler is working at set temperature.
3. In order to switch off gas operation, press Off.



Heating with gas

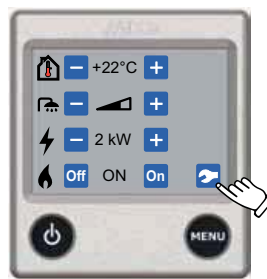
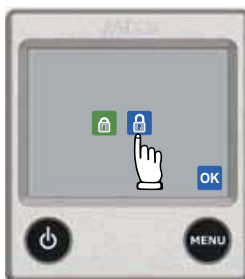
Do as follows to activate heating with gas. If both electricity and gas are selected, electricity is given priority.



Unlocking the tool menu

It is possible to go from the setting menu to the tool menu. Under the tool menu you can access the other functions of the control panel.

1. The control panel in setting menu. Press the unlock symbol.
2. The control panel in unlocking menu. Press on open padlock, then OK or MENU to unlock the tools menu. When activated the symbol changes colour to green.
3. The control panel in setting menu with unlocked tool menu. In order to get to the tool menu, press the symbol.



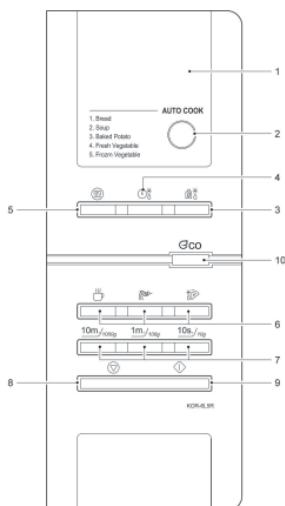
Truma Telemetric link to the Alde heating system

Your Alde heating system is supplied with the Truma Telemetric Link which can operate the Heating system via a mobile phone link. The operational instructions and the sim card for the Link will be provided within the document

wallet supplied with your caravan. Please read these instructions before operating the Link.



Microwave



- 1 **DISPLAY** - Cooking time and power level are displayed.
- 2 **AUTO COOK** - Used to cook or reheat many favourite foods.
- 3 **WEIGHT DEFROST** - Defrost food based on weight.
- 4 **TIME DEFROST** - Defrost food by time.
- 5 **POWER** - Used to set power level.
- 6 **ONE TOUCH COOK** - Used to cook or reheat specific quantities of food.
- 7 **TIME SET BUTTON** - Used to set the cooking time and weight.
- 8 **STOP/CLEAR** - Used to stop the oven operation or delete the cooking data.
- 9 **START/+30 SEC** - Used to start the oven and also used to set a reheat time.
- 10 **Eco** - Used to turn the AC power on the oven.

Operation Procedure

- Plug power supply cord into 230V AC 50Hz power outlet.
- Press eco button until beep sounds and display is turned on.
- After placing the food in a suitable container, open the oven door and put it on the glass tray. The glass tray and roller guide must always be in place during cooking.
- Close the door. Make sure that it is firmly closed.
- The oven door can be opened at any time during operation by pushing the door open button. The oven will automatically shut off. To restart the oven, close the door and then push the START button.
- The oven automatically cooks on full power unless set to a lower power level.
- The display will show ": 0" when the oven is plugged in, press and hold Eco button until display is turned on and beep sounds.
- Display will be returned to the ": 0" when the cooking time ends.
- When the STOP/CLEAR button is pushed during the oven operation, the oven stops cooking and all information retained. To erase all information, push the STOP/CLEAR button once more. If the oven door is opened during the oven operation, all information is retained.
- If the START button is pushed and the oven does not operate, check the area between the door and door seal for obstructions and make sure the door is closed securely. The oven will not start cooking until the door is completely closed or the program has been reset.
- Display turns off after 10 minutes.

Make sure the oven is properly installed and plugged into the electrical outlet.



Wattage Output Chart

The power level is set by pushing the Power button. The chart shows the display, the power level and the percentage of power.

Push the Power button	Power level (Display)	Approximate Percentage of Power
once	P-HI	100%
twice	P-90	90%
3 times	P-80	80%
4 times	P-70	70%
5 times	P-60	60%
6 times	P-50	50%
7 times	P-40	40%
8 times	P-30	30%
9 times	P-20	20%
10 times	P-10	10%
11 times	P-00	0%

Battery Charger

The battery charger for the caravan battery will automatically switch on when the caravan is connected to a mains supply. The battery charger will also provide a 12V supply to the caravan when a battery is not connected.

Please note that the battery charger fitted is designed to keep your battery charged and is not designed for charging up a flat battery.

Smoke Alarm

Operation

The smoke alarm is operating once a fresh battery is installed and testing is complete. When products of combustion are sensed, the unit sounds a loud 85db pulsating alarm until the air is cleared.

Hush Control - The "HUSH" feature has the capability of temporarily desensitising the alarm circuit for approximately 8 minutes. This feature is to be used only when a known alarm condition, such as smoke from cooking activates the alarm. If the smoke is not too dense, the alarm will silence immediately and the Red LED will flash once every 10 seconds for approximately 8 minutes. This indicates that the alarm is in a temporarily desensitised condition. The smoke alarm will

automatically reset after approximately 8 minutes and sound the alarm if particles of combustion are still present. The "HUSH" feature can be used repeatedly until the air has been cleared of the condition causing the alarm.

Note: Dense smoke will override the hush control feature and sound a continuous alarm.

CAUTION: Before using the alarm hush feature, identify the source of the smoke and be certain a safe condition exists.

Flashing LED Light - This smoke alarm is equipped with a flashing red indicator light. The light is located under the test button and will flash every 40 seconds to indicate that the smoke alarm is receiving power.

Testing - Test by pushing the test button on the cover and holding it down for a minimum of 5 seconds. This will sound the alarm if the electronic circuitry, horn and battery are working. If no alarm sounds, the unit has defective batteries or other failure. DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.



TEST THE ALARM WEEKLY TO ENSURE PROPER OPERATION.

Erratic or low sound coming from your alarm may indicate a defective alarm and it should be returned for service.

Note: Weekly testing is required.

Nuisance Alarms

Smoke alarms are designed to minimise nuisance alarms. Cigarette smoke will not normally set off the alarm, unless the smoke is blown directly into the alarm. Combustion particles from cooking may set off the alarm if the alarm is located close to the cooking area. Large quantities of combustible particles are generated from spills or when boiling. Using the fan on a range hood which vents to the outside (non-recirculating type) will also help remove these combustible products from the kitchen. If the alarm does sound, check for fires first. If a fire is discovered, get out and call the fire department.

Maintenance

Battery Replacement

Note: Replacement batteries are available where you purchased your alarm.

The smoke alarm is powered by a 9V battery. A fresh battery should last for one year under normal operating conditions. This alarm has a low battery monitor circuit which will cause the alarm to "chirp" approximately every 30-40 seconds for a minimum of seven days when the battery gets low. Replace the battery when this condition occurs.

Note: Use only the following 9 volt batteries for smoke alarm battery replacement:

Alkaline Type: Energizer 522; Duracell MN1604, MX 1604; Gold Peak 1604A.

Note: Weekly testing is required.

WARNING: Use only the batteries specified. Use of different batteries may have a detrimental effect on the smoke alarm.

Cleaning your alarm

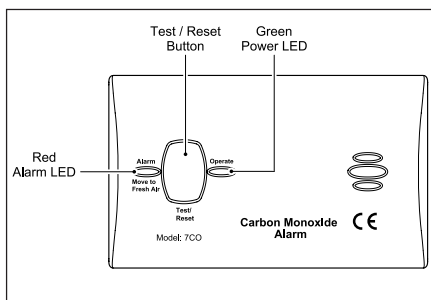
Your alarm should be cleaned at least once a year.

To clean your alarm, remove it from the mounting bracket. You can clean the interior of your alarm (sensing chamber) by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the perimeter of the alarm. The outside of the alarm can be wiped with a damp cloth.

After cleaning, reinstall your alarm and test it by using the test button. If cleaning does not restore the alarm to normal operation the alarm should be replaced.



CARBON MONOXIDE ALARM



Switching on your CO alarm

Note: Your CO alarm must be installed by a competent person using the following guidance:

- Remove the batteries from the pack and insert them into the battery compartment. Make sure that you fit the batteries correctly to the polarity markings (+ or -) shown within the battery compartment. If correctly installed the alarm will give a short beep.
- To test the alarm, press the test button. The alarm will beep once followed by 4 loud pulses, then a brief pause and then 4 more pulses, ending with a single beep.
- Check that the green LED flashes at 30 second intervals to show that the alarm has power. This is easiest to see in a dark area, or with lights switched off.

Recognising alarm signals and warnings

Feature	What this means	Required Action
Green LED flashes every 30 seconds	Normal operation	None
The alarm chirps every 60 seconds and the red LED flashes	Low batteries	Replace batteries as soon as possible
Alarm chirps twice every 30 seconds and the red LED flashes twice	End of life of the alarm	Replace the alarm
Alarm chirps every 30 seconds and red LED flashes every 30 seconds	Fault	Replace the alarm
Red LED on and constant tone	Malfunction	Replace the alarm
Loud continuous alarm with the red LED	Dangerous levels of CO have been detected	Follow emergency procedures.

Using your alarm

Testing

Test your alarm each week by pressing the test button. The alarm will beep once followed by 4 loud pulses, then a brief pause and then 4 more pulses, ending with a single beep. In full alarm the red LED will flash for 10 seconds.

This confirms that the alarm is powered up and working.

Re-setting the alarm

If the alarm sounds, the test/reset button will silence the alarm unless it is still detecting dangerous levels of CO. The green light will then flash every 30 seconds to indicate that the alarm has power.

Replacement of batteries

Under normal operating conditions, the batteries will last a minimum of one year. These batteries can be purchased from your local retailer.



End-of-life - This alarm will chirp every 30 seconds with a red LED flash after at least 10 years operation to let you know it has reached its end of life. A replacement needs to be purchased.

Carbon Monoxide Alarm Procedure

What to do if your alarm sounds

If alarm sounds (4 loud audible pulses followed by a pause for 5 seconds):

- Immediately move to fresh air - outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Do not re-enter the caravan nor move away from the open door/window until the emergency services responders have arrived, the caravan has been aired out and your alarm remains in its normal condition.
- Call Gas Emergency Services: 0800 111 999 or your local Gas Safe Registered Engineer.

Never restart the source of the CO problem until it has been corrected. Never ignore the sound of the alarm! If the alarm is sounding, pressing the test/reset button will terminate the alarm. If the CO condition that caused the alert in the first places continues, the alarm will reactivate. If the unit alarms again within six minutes, it is sensing high levels of CO which can quickly become a dangerous situation.

WARNING: Activation of the alarm indicates the presence of Carbon Monoxide (CO) which can kill you.

Maintenance of your alarm

To keep your alarm in good working order:

- Test every week
- Vacuum regularly to remove dust
- Keep away from solvents or detergents
- Avoid spraying air-freshener, hair-spray near the alarm
- Do not paint the alarm. If decorating or using adhesives close to the alarm, remove it temporarily.

The following substances can affect the sensor and cause false alarms.

Methane, Propane, Iso-butane, Iso-propanol, Ethylene, Benzene, Toluene, Ethyl acetate, Hydrogen Sulphide, Hydrogen, Sulphur Dioxide, alcohol based products, paints, thinners, solvents, adhesives, hair-sprays, aftershaves or perfumes and some cleaning agents.

WARNING: This Carbon Monoxide alarm is not a smoke alarm. It will not sense smoke, fire or any poisonous gas other than carbon monoxide.



THETFORD CASSETTE C260S TOILET

Introduction

The Thetford Cassette Toilet is a high quality product. The toilet forms an integral part of your caravan bathroom, thanks to its functional design which combines modern styling and ease of use. The C-260 Cassette Toilet is manufactured from high quality synthetic materials which makes it a durable, user and maintenance friendly toilet.

The toilet is made up of two parts: a permanently fixed part and a Waste Holding Tank that is accessible from the outside. The removable Waste Holding Tank is located under the toilet bowl and can be removed via a door on the outside of the caravan. The Thetford Cassette Toilet is the solution to the sanitary problem in your caravan!

The operating instructions cover Thetford Cassette Toilet models C-260S, C-260CS (models connected to the vehicle's central water tank) and C-260CWE (model with its own flush-water tank). There are differences in the use of these models. Please ensure that you follow the instructions that apply to your toilet model.

PARTS

- a) Removable Seat and Lid
- b) Swivelling Toilet Bowl
- c) Blade Handle
- d) Flush Button
- e) Waste Holding Tank Level Indicator
- f) Water Filling Door (only if toilet has own flush-water tank)
- g) Rotating Emptying Spout
- h) Automatic Pressure Release Vent
- i) Sliding Cover
- j) Removable Mechanism
- k) Vent Plunger
- l) Pull-out Handle
- m) Wheels
- n) Blade Opener
- o) Access Door to Waste Holding Tank

Optional Features

- p) Electric Blade
- q) Automatic Ventilator
- r) Waste Pump-Out System
- s) Waste Holding Tank Multi-Level Indicator
- t) Flush-Water Tank Level Indicator (only if toilet has its own flush-water tank)

Note: Optional features can be bought from Thetford dealerships.

Preparing for use (standard)

1. Open the access door on the outside of your caravan.
2. Remove the Waste Holding Tank by pulling the safety catch (which holds the tank in place) upwards.
3. Pull the Waste Holding Tank outward to the stop. Tip it slightly and take the tank fully out.
4. Place the tank upright and turn the rotating emptying spout upwards. The emptying spout ensures that the tank can be easily and hygienically emptied.
5. Remove the cap, with the measuring cup inside, from the emptying spout and pour the correct dosage of Thetford toilet fluid (see product label) into the holding tank. This avoids unpleasant smells and keeps the inside of the tank clean. Next add approximately 2 litres of water - enough to ensure that the bottom of the Waste Holding Tank is covered. For more information on Thetford toilet fluids, see last page of this manual. Screw the cap back onto the emptying spout and turn back to its original position.

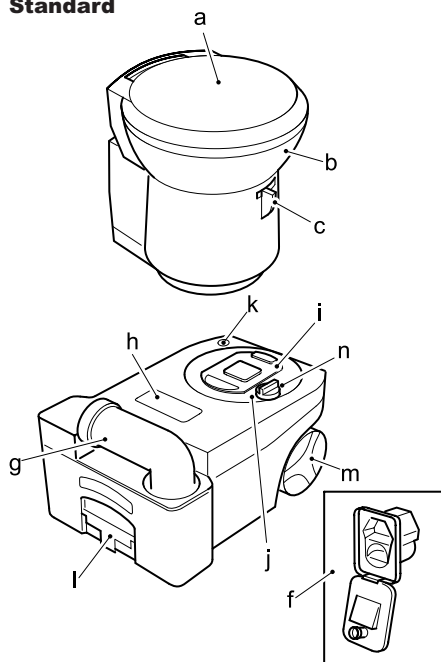
Note: The Emptying Spout Measuring Cap is supplied in the same packaging as this manual.

CAUTION: Never add toilet fluid directly via the blade or the toilet bowl as this could damage the lip seal of the Waste Holding Tank. Always pour the fluids via the emptying spout.

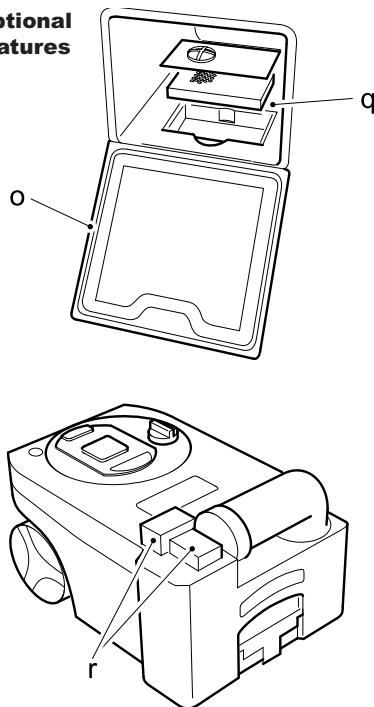
6. Slide the Waste Holding Tank back into its original position via the access door. Make sure that it is secured with the



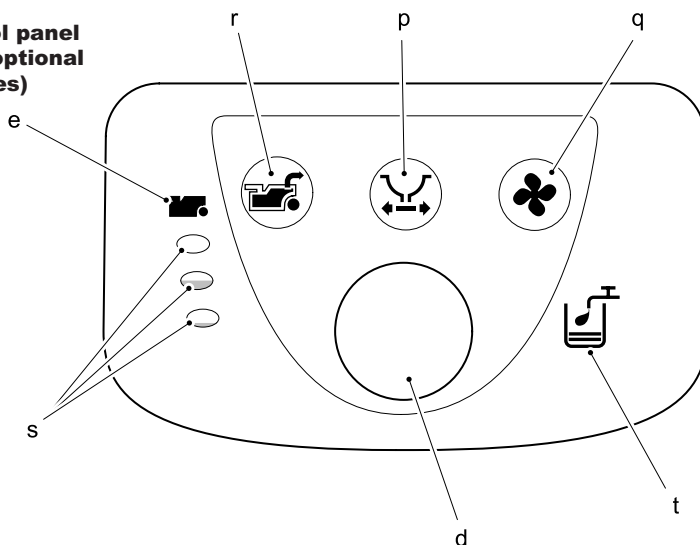
Standard



Optional features



Control panel (with optional features)





safety catch. Close the access door and lock it. Your Thetford toilet is now ready to use.

CAUTION: Never use force if you cannot get the tank back into place easily. This may cause serious damage. If blockage occurs, always check if the blade handle is in the correct (closed) position.

7. For toilets with own Flush-Water Tank: Open the water filling door and fill the flush-water tank with the correct dosage of Aqua Rinse. This Thetford toilet fluid keeps the flush water fresh and improves the flushing. Next, fill up the flush-water tank with clean water (approximately 8 litres) using a ferry can or hose. Your toilet is now ready to use.

Preparing for use with Optional Features

8. Automatic Ventilator: Open the access door on the outside of your caravan and remove the Waste Holding Tank (as described above).
9. Remove the filter housing cover and if no filter is present, place a new filter into the filter housing. Peel off the sticker lids on the filter. Place back the cover of the filter housing.

Using the toilet (standard)

10. Turn the bowl to the desired position with the lid closed and using both hands.
11. To activate the control panel, press the flush-button once. The control panel display will stay activated for approximately 5 minutes. Run some water into the bowl by pressing the flush button again briefly.
12. The toilet may be used with the blade open or closed. To open the blade, slide the blade handle under the toilet bowl sideways. After use, open the blade (if still closed) and flush the toilet by pressing the flush button for several seconds (if necessary re-activate the control panel). Close the blade after use.

CAUTION: If your toilet has its own flush-water tank, please make sure that you do not travel with a flush-water tank that is

too full. Do not travel with water in the toilet bowl. Failure to adhere to this notice may result in water damage to your caravan.

Using the toilet with Optional Features

13. Electric Blade: Push the electric blade button on the control display to electrically open or close the blade. In the case of failure, you can manually open or close the blade by sliding the small handle under the toilet bowl sideways.
14. Automatic Ventilator: The ventilator automatically starts when the control panel is activated (by pressing the flush button) and will automatically shut off after approximately 5 minutes. The Automatic Ventilator Indicator will flash until automatic shut-off occurs. If you want to stop the ventilator, press the Automatic Ventilator button. If you want to re-start the ventilator, press the button again (the LED will start flashing again).
15. Flush Water Tank Level Indicator (only for toilets with own flush-water tank): When the Flush Water Tank Level Indicator lights up, refill the flush-water tank, as only about 1.5 litres of water is left in the tank, which is sufficient for approximately 2 flushes.

Emptying

The Waste Holding Tank has a capacity of 18 litres and requires emptying when the red light (LED) on the toilet control display lights up, when the Waste Holding Tank only has capacity for approximately 2 more litres, which is no more than two to three further uses.

Make sure that the blade is closed. Open the access door located outside the vehicle, pull the safety catch upwards and remove the Waste Holding Tank.

16. Place the Waste Holding Tank in an upright position (Pull-Out Handle at the top, Wheels at the bottom). Slide the handle sideways - to the front of the tank - until it snaps out of its locked position.
17. Pull the handle up and wheel the Waste Holding Tank to an authorised waste disposal point.



18. Push the handle back into its locked position. Turn the emptying spout upwards and remove the cap from the spout. Hold the Waste Holding Tank in such a way that during emptying you can operate the vent plunger with your thumb. To empty the tank without splashing, depress the vent plunger while emptying the tank. After emptying, rinse the tank and blade thoroughly with water.

CAUTION: Do not seriously shake the tank or use high pressure water cleaners. This may cause damage to the tank's interior.

Note: The vent plunger should only be depressed once the emptying spout is pointing downwards. Prepare the toilet for re-use if required. Slide the Waste Holding Tank into the toilet and close the access door.

Emptying with Optional Features

19. Waste Holding Tank Multi-Level Indicator: The lower lamp indicates that the Waste Holding Tank is almost empty; the middle lamp indicates that it is more than half full; when the upper lamp lights up, the tank needs emptying as it can only take 2 - 3 further uses.

Note: The Waste Holding Tank Level Indicator will flash when the holding tank is not present. In this case the toilet will not flush.

20. Waste Pump-Out System: When activating the control panel this feature automatically lights up. When the Waste Holding Tank Level Indicator illuminates, press the Waste Pump-Out button to pump out the waste from the holding tank into the vehicle's waste tank. The button will flash while the waste is being pumped and will stop automatically (after approximately 5 minutes) when all waste has been transferred. If the vehicle's waste tank is full, the Waste Pump-Out light will flash rapidly and no pump-out will be possible until the central tank is emptied. (Check the level of the vehicle's waste tank on the vehicle's central console). After the Waste Holding Tank has been emptied, there will be

approximately 1.5 litres of waste left in the tank. This is normal. Add 2 litres of water and a correct dosage of Thetford toilet fluids to the Waste Holding Tank.

CAUTION: It is vital that the correct amount of toilet fluid is added to ensure the proper breakdown of the waste in the holding tank. Only use the system when the tank is full. Using the system too often on an empty tank can cause damage to the pump, which could cause the system to fail.

Cleaning and Maintenance

The toilet should be cleaned and maintained regularly, depending on the amount of use. To clean Thetford toilets, we advise using water and Thetford Bathroom Cleaner.

CAUTION: Never use bleach, vinegar or other powerful household cleaners that contain these substances. These may cause permanent damage to the seals and other toilet components.

Toilet Bowl

- Squirt Thetford Bathroom Cleaner into the toilet bowl.
- Flush the toilet bowl with water and wipe down the rest of the toilet with a damp cloth.
- Clean seat and lid The seat and lid can easily be removed: Lift the seat and lid assembly and pull the round pins (inside the assembly) outwards from the pin holes. After cleaning, replace the seat and lid by positioning the round pins in front of the pin holes and push the lid and seat downwards.
- To keep your flush water fresh and to prevent deposits from forming in your toilet bowl, add a correct dosage of Aqua Rinse in your flush water tank, if present, on your toilet.

Tip! For a really shining toilet, dry with a soft dry cloth after cleaning.



Waste Holding Tank

To keep your Waste Holding Tank fresh and clean, Thetford has developed a number of different toilet fluids. Thetford toilet fluids suppress smells, reduce formation of gas, promote breakdown of toilet waste and increase the life span of a mobile toilet. We advise a thorough cleaning of the Waste Holding Tank once each season. Next to using Thetford's Cassette Tank Cleaner, the powerful cleaning agent for the periodical cleaning of the Waste Holding Tank of your toilet, we suggest the following:-

- Remove the removable mechanism from the Waste Holding Tank by turning it anti-clockwise and rinse it under a tap.
- Remove the cover plate from the Automatic Pressure Release Vent by prising it up using a small screwdriver. Use one hand to push the Automatic Pressure Release Vent open while holding the float of the Automatic Pressure Release Vent on the inside of the tank with the other hand. Push the float upwards, turn it 180 degrees and remove it from below. Remove the rubber seal underneath the float. Rinse the float and rubber seal under a tap. Replace the rubber seal and float for the Automatic Pressure Release Vent using the same method in reverse.

The rubber seals in the toilet (the lip seal, the mechanism seal, the automatic pressure release vent seal and the cap seal) should be regularly cleaned with water and treated with Thetford High Grade Seal Lubricant. This will ensure that the seals remain flexible and in good condition. If the toilet is not to be used for any length of time, it is important to treat the seals with Thetford High Grade Seal Lubricant after cleaning.

CAUTION: Never use Vaseline or any vegetable oil except olive oil. These may cause leakage or malfunction. The lip seal is a part of the toilet that is subject to wear. Depending upon the extent and manner of use, the seals will become less effective and will need replacing periodically.

Cleaning and Maintenance for Optional Features

- Automatic Ventilation: The filter of the Automatic Ventilation needs to be renewed periodically. After approximately 4 full weeks of use, the filter loses its absorption power.
- Pump-Out Waste System: To ensure optimal functionality of the Pump-Out Waste System, periodical maintenance of the tube and pump is recommended. After emptying the Waste Holding Tank completely, fill it with clean water and empty it again. This will clean the pump and the hose. Do this once every 3 weeks when on holiday. This should ensure proper operation of the system.

Winter operation

You can use your Thetford Cassette Toilet as normal in cold weather as long as the toilet is situated in a heated location. If there is a risk of freezing we advise that the toilet is drained by following the instructions under 'Storage'. For environmental reasons the use of antifreeze, such as that used in car radiators, is not recommended.

Storage

It is important that you follow the instructions below if you do not expect to use your Thetford toilet for a long (winter) period.

- Activate the Control Panel by pressing the flush button. Open the blade and press the flush button until water stops flowing into the bowl. Close the blade. Open the access door on the outside of your caravan and empty the Waste Holding Tank at an authorised waste dump. Follow the instructions for cleaning and maintenance. To allow the Waste Holding Tank to dry, do not place the cap back on the emptying spout of the tank.
21. If the toilet has its own flush-water tank, place a sufficiently large bowl under the drain tube to catch the remaining water from the flush-water tank and remove the drain plug. When no more water exits, put the drain plug on the drain tube, put it back in its original position and close the access door. If the toilet is connected to



the vehicle's water tank, please follow your vehicle's instructions for draining the central water system. If your toilet is optionally featured with a Waste Pump-Out System, take out the Waste Holding Tank and completely clean it (see Cleaning and Maintenance). After cleaning, fill it with water, put it back and empty it via the waste pump-out system. Repeat this twice.

Toilet unit malfunctions

Contact your dealer or a Thetford Service Centre.

We advise draining the fresh water tank prior to travelling. Antifreeze should not be required if the motor home is heated. If you do wish to use antifreeze, brands containing the following properties may be used in the fresh water tank:

- Ethylene glycol
- Mono-Ethylene glycol
- Propane-diol
- Glycerol
- Ethane-diol
- Glycol

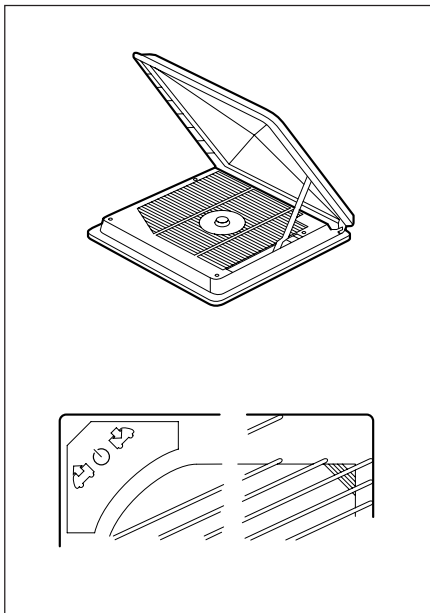
Never use alcohol based antifreeze, i.e. Methanol, Ethanol, and Iso-propanol.



ROOFLIGHTS

Your caravan is fitted with at least one type of the following roof lights:

The Omivent (12v) Rooflight



The Omivent is a double-glazed roof light constructed from a synthetic ultra-violet screened material. Its side-operating mechanism allows a completely free central opening with built-in fixed ventilation when closed. It operates as an extractor fan and air intake fan.

Please note: Do not change the direction of the fan unless it has been switched off 'O' position and the blades have stopped rotating.

Mini Heki Rooflight

The mini Heki S with fixed ventilation has five opening positions and easy to operate handles. It is equipped with blind and flynet and allows adjusted natural lighting and shading as required.

Using the solid handles the rooflight can be easily opened and placed into one of the five opening positions up to a height of approx. 80 mm.

Midi Heki Rooflight

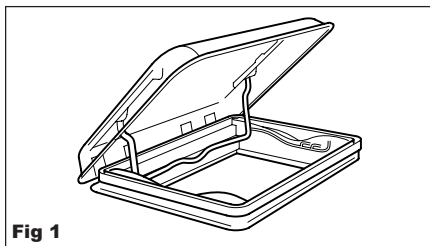


Fig 1

- (i) To open, push the large central button (Fig 2).

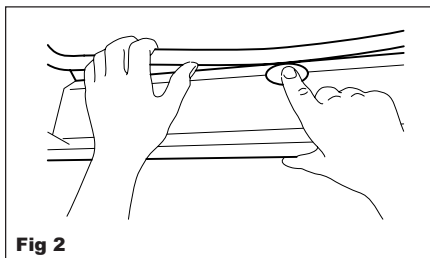


Fig 2

- (ii) Whilst depressed, slide the bar to the desired position and locate into the stops provided (Fig 3).

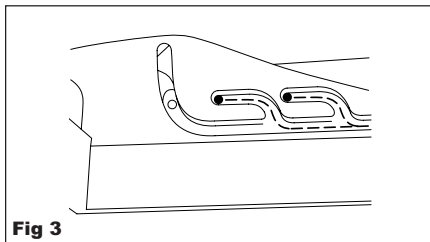


Fig 3



WINDOWS

Your caravan will be fitted with Polyplastic framed windows.

Polyplastic Window Opening

- (i) In order to open the Polyplastic window it is only necessary to move the catch upwards and release the catch from the backing plate.
- (ii) The Polyplastic window should remain in the open position once opened, however if it does not then tighten the friction control on the window stays to increase the holding force.
- (iii) The Polyplastic window is also fitted with a night ventilation position where the catch is set to the centre position on the backing plate; in this position it may be possible for rain to enter the caravan in adverse conditions.

BLINDS & FLYSCREENS

Blinds

- (i) Pull blind down by its centre catch. Do not pull down by one side of the blind. This will inevitably lead to problems.
- (ii) Do not allow blinds to spring back freely. Always control them by hand.

Flyscreens

- (i) To operate the flyscreen, either pull the screen fully down, fully up or across, dependant on type of window fitted, and clip into place on the blind/frame.
- (ii) To release, unclip from the blind/frame. If a cross bar is fitted, gently pull the crossbar downwards towards you and allow the tension of the spring to roll up the flyscreen.
- (iii) Where a crossbar is not fitted, disconnect from the blind catch and release gently.
- (iv) It is recommended that blinds are not in the closed position whilst the caravan is moving.

SHOWER

Using your Caravan Shower

To safely enjoy showering in your new caravan, the following guidelines should be used.

- Advise others that you are planning to have a shower and that they should not use other taps whilst you are showering.
- Ensure there is a sufficient supply of cold water available.
- Divert the shower head or move to the side, turn on the shower, carefully test the temperature with your hand and regulate the temperature as necessary before standing underneath the shower.
- Supervise closely the young, elderly and those with reduced mentally or sensory impairment.

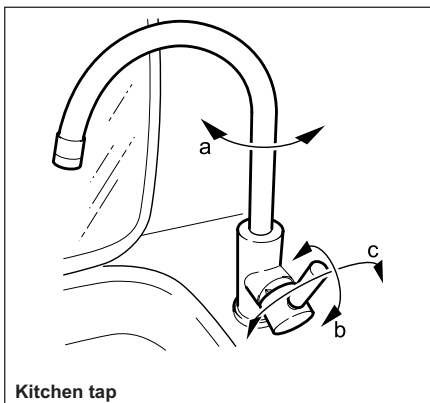
CAUTION: Water may be very hot.



TAPS

Kitchen tap operation

Swivel the tap spout (a) to the desired position over the sink, lift the control lever (b) to activate the pump and allow water to flow simultaneously. To adjust the temperature swivel the lever (c) to the left or right as shown.



Kitchen tap

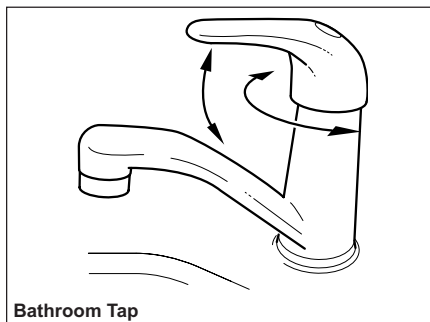
Bathroom and shower tap operation

The bathroom and shower taps are operated by lifting the lever and turning the lever right for cold and left for hot water. In order for the taps to work, the pump switch on the control panel needs to be in the ON position. For caravans with fixed water tanks the taps need to be in the TAPS position.

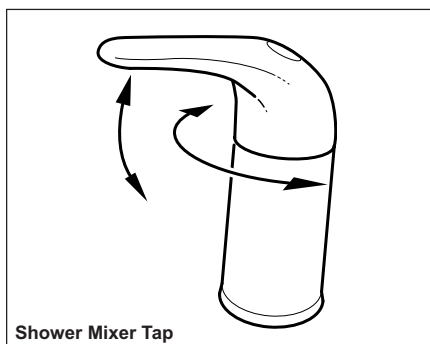
WARNING: The water temperature could be very high so do not lift the lever with the tap turned to the full left position.

Cleaning

It is recommended that a non-abrasive damp cloth is used to clean the taps.



Bathroom Tap



Shower Mixer Tap

GAS LOCKER DOOR

All caravan models are fitted with a gas strut supported door which will remain in the open position without the need for a holding bracket. This door will remain open unless locked by the key.

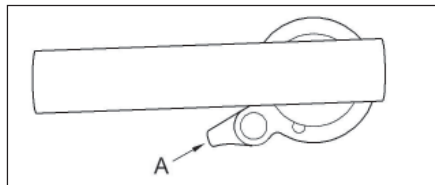
Please note: It is important when raising your gas locker door that you do not push the door past the vertical position as this could damage the hinges. Also care should be taken when leaving the door in the open position to ensure that any wind cannot catch the door and push it open beyond the vertical position.



INTERNAL DOORS

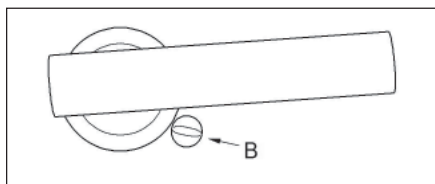
Toilet/Shower Room Doors

Operation from within the shower room



To open the door, push the small lever down (identified in the drawing as A) then to unlock, push this lever back to the original position.

Operation from outside the shower room

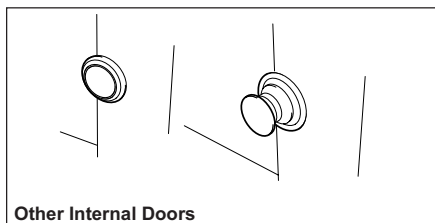


To open and close the door, push the lever down.

If the door is locked and needs to be opened, it can be opened by inserting a coin into the lower slot (identified in the drawing B) and turning the slot.

OTHER INTERNAL DOORS

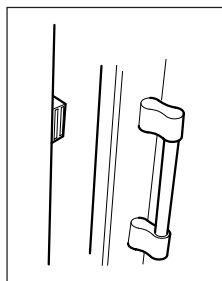
Other internal doors such as the wardrobe and table storage locker are fitted with a 2-position button lock. Push the button to lock the door and the button should remain flush with the door. Push the button again to release and the button should then protrude from the door surface.



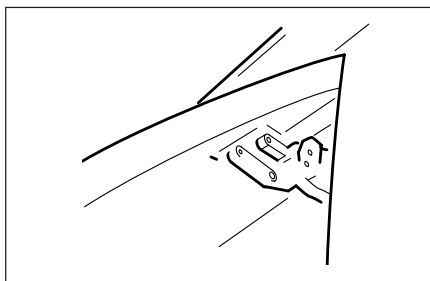
Other Internal Doors

MAGNETIC CATCHES

Magnetic catches work on contact with the metal plate on the rear of the door. Simply close the door until the magnet engages and holds the metal plate. Pulling the door towards you with a moderate force will be sufficient to disengage the magnetic catch and open the door.



SPRUNG HINGES

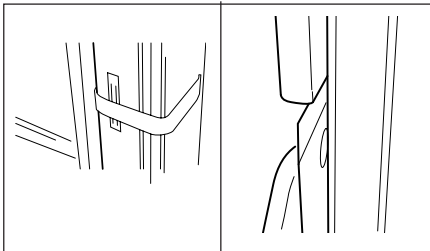


Overhead lockers will use sprung hinges. These are suitably strong enough when closed to securely retain the door and prevent it from opening in transit. Pulling the handle towards you with moderate force is sufficient to open the locker door and hold it in the open position.

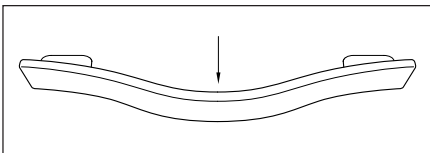


SLIDING DOORS

The room divider should be held in place during transit by the use of the strap with the stud fastening. When stationary, the room divider can be held shut by contact between a metal plate and magnet.



HIGH LEVEL LOCKER

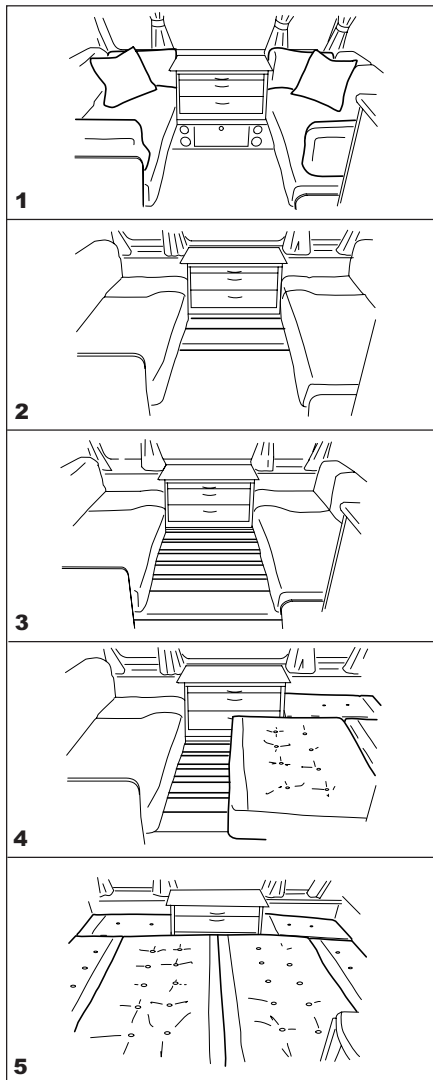


To open the locker, push the handle downwards..



BED MAKE-UP

Parallel Lounge



The two single beds can be easily converted into a double bed by pulling out the bed slats, stored beneath the chest of drawers or stored in the bed slat box at the front/end of the caravan. Arrange seat cushions appropriately.

FRONT WRAP ROUND SEATING (Option)

If you have purchased the wrap round seating option for your new caravan please note that the centre seat can be extended by the use of the locking mechanism which can be found under this seat.

Pull the slats forward then turn the locking plate to be in the direction down the caravan (see fig 1) in order to secure the front seat in place.

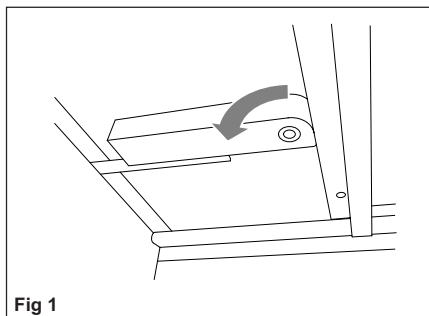


Fig 1

This will prevent the slats from going back into the front seat and increase the seated area.

Please ensure you return the locking plate to its normal position (see fig 2) if you wish to remove the wrap round seating.

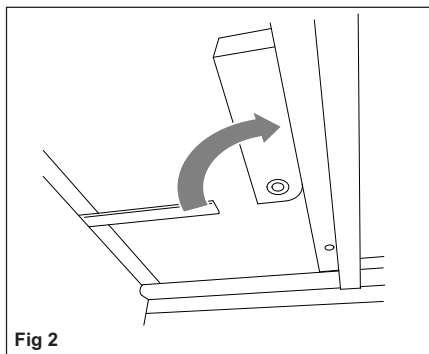


Fig 2

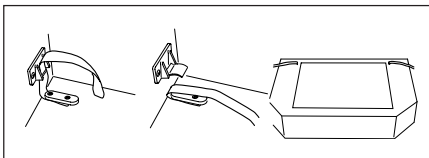
Maximum load for the beds

Fixed bunks	100 kgs (17 stone)
Fixed single beds	125 kgs (19 1/2 stone)
Double fixed bed	250 kgs (39 stone)



REMOVABLE DRAWER LOCKER

To remove from the caravan, first locate the two retaining straps at the bottom rear of the unit, the straps are released by pulling away and down this releases the thumb catches. The locker can now be removed for storage.



To secure the unit into the caravan, first place the locker into position, then feed the straps through the thumb locks, holding the strap taut push the thumb lock so that it closes on the strap.

SATELLITE DISH (OPTIONAL)

Operation

If you ordered your new Buccaneer caravan with the optional self seeking satellite dish then the full users instructions will be provided within the document wallet provided with the caravan.

Note: Always ensure your dish is in the fully retracted position before travelling.

Radio/CD with MP3 Connectivity

Details on how to set up and use the Radio/CD will be contained in your document wallet.

AVTEX AERIAL

A omnidirectional high gain TV aerial is provided and can receive Digital TV signal, AM and FM radio signals and can run up to 3 TV outlet at any one time.

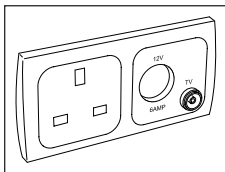


HOW TO USE YOUR TV AERIAL

Digital TV set-up guide

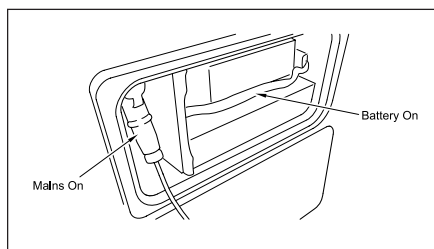
Connect aerial and power

Fix the TV to a bracket or place on a stable, flat surface, then connect the aerial cable and power lead to the TV and sockets.



Check the power is on

The aerial needs power to work correctly; check that the power is switched on (Switch on either the mains and/or battery power to the vehicle) both power sources switch on the aerial (12 Volts).



Tune in TV and choose transmitter

Switch on the TV and tune in the channels. If the vehicle is moved or a different socket is used you might need to re-tune TV. If the first transmitter picked up has poor quality pictures, then re-tune and pick another transmitter.

With Digital TV's there will be a re-tune button on the remote control use this feature and then choose manual re-tune.

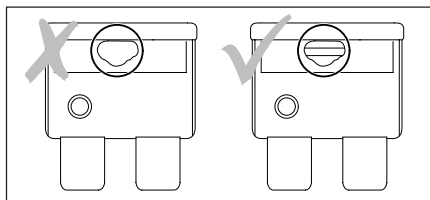
Most digital TV's will also allow you to choose the transmitter which is normally available via the Menu function.

This will vary by TV manufacturer so if you have any problems undertaking this task please refer to your TV manual.

Troubleshooting Guide

Check aerial/radio fuse

If there is no power, check the 5 amp fuse located within the PDU marked radio is in working order.



Check TV monitor

Check the TV is working correctly by ensuring that the channels tune in correctly in your home. If the TV does not pick up the expected number of channels we would recommend you get the TV checked out.

See step 6 shows how to tune your TV

Number of channels picked up from your house connections

DTV : 0 Programme(s)

Radio: 0 Programme(s)

Data : 0 Programme(s)



DTV : 72 Programme(s)

Radio: 24 Programme(s)

Data : 21 Programme(s)



Check the coax lead is of good quality

Check that the TV aerial lead is of good quality (Normally cheap leads from the supermarket give reception problems, they are normally mass produced and made to a wider tolerance).

Ensure the coax lead from the aerial socket to the TV is suitable for digital reception (if in doubt, ask for advice).

Check location for signal strength

Check that the digital tv signal strength where the vehicle is situated is Very Good to Good.

Go to: www.digitaluk.co.uk

Enter the postcode and check signal strength.



Note: Sometimes transmitters are being repaired or upgraded

Go to: http://www.digitaluk.co.uk/help_and_advice/engineering_works

Check if signal is OK that day / week.

Check there are no obstructions

Is the vehicle outside in an open space?

Check that the vehicle has no obstructions:

House lean to/canopy

Trees (also blowing in the wind)

House or other buildings

Hills

Large vehicles

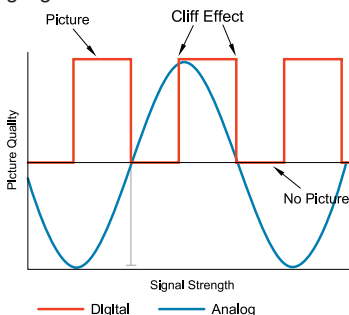
In a valley etc.



Understand digital signals

Digital signals have what the industry calls the Cliff effect.

The Cliff effect is either you have a picture or not within a very small difference of signal strength. This happens with both weak and strong signals.



Troubleshooting guide - Checklist

Action	✓ or X
Check aerial fuse	
Connect aerial and power	
Check the power is on	
Tune in TV and choose transmitter	
Check TV monitor	
Check the coax lead is of good quality	
Check location for signal strength	
Check for obstructions	
Understand digital signals	

If after following this guide you still have problems, contact your local Retailer or Approved Workshop.



PROTECT - AUTOWATCH ALARM SYSTEM

The Protect system is fitted as standard on the Odyssey, Omega, Rallye, Crusader and Buccaneer range. Manufactured by Autowatch, The Protect system is designed to give years of trouble free operation. Made with only the highest quality components and using state of the art technology you can be assured that your caravan has the best electronic protection available.

Each caravan alarm is installed with a Passive Infrared Detector (PIR), a sensor that detects movement in the caravan and transmits a radio signal to the alarm module. If the alarm is on the siren will sound. A leg sensor, fully sealed against dust and water, will detect if the corner stabilising leg is being raised or lowered and transmits a coded radio signal to the alarm.

Additional sensors can be purchased from your retailer to enhance security.

See section below for operation or consult the manufacturers instructions provided in the Owners Information Pack.

Basic Operation Arming the System

- (i) Briefly press (large) arm/disarm button.
- (ii) Single chirp.
- (iii) Awning light illuminates for 30 seconds.
- (iv) Settling time of 15 seconds before responding to triggers.
- (v) Single intermittent flash of status LED (every 2 seconds).
- (vi) All sensors triggered will result in siren sounding for 30 seconds, or until reset by pressing the arm/disarm button.

Disarming the System

- (i) Briefly press the (large) arm/disarm button.
- (ii) Double chirp.
- (iii) Awning light illuminates briefly on and off and then on again for 30 seconds.
- (iv) LED off.

Panic Alarm

- (i) Press and hold the small panic button on the transmitter for two seconds.

- (ii) The siren will sound for thirty seconds, unless reset by pressing any of the transmitter buttons.

Emergency Disarm

Insert the touch-key briefly into the socket. The alarm will turn off.

Silent Arm and Disarm

- (i) Press the small button briefly followed by a press on the arm/disarm button.
- (ii) The alarm will arm/disarm without chirps.

Sensors

Each caravan alarm is installed with a Passive Infrared Detector (PIR) and a leg sensor. Additional sensors can be purchased from your dealer to enhance security.

Passive Infra Red Sensor

The wireless PIR sensor will detect movement in the caravan and transmit a radio signal to the alarm module, if the alarm is on the siren will sound.

Leg Sensor

The leg sensor will detect the corner stabilising leg being raised or lowered and transmit a radio signal to the alarm. The leg sensor is fully sealed against dust and water and has a battery life expectancy of three years. When the battery becomes exhausted, the sensor will need to be replaced.

Enhanced Features Arming The System In "At Home" Mode

In the 'at home' mode, any sensor that is programmed to be isolated, such as the PIR sensor will not trigger the alarm. Other sensors, such as the leg sensor, will trigger the siren. Arm as normal followed by a second press on the arm/disarm button within 2 seconds. Normal "on" tone followed by "at home" tone indicating isolation is active. Settling time of 15 seconds before responding to triggers. Armed in the isolation mode will be indicated by a double flash intermittently of the LED. The "at home" sensors will be isolated; other sensors will trigger the siren for 30 seconds.



Arming the System in Test Or Buzz Mode

In the buzz mode the siren will sound a short tone when a sensor is triggered instead of sounding for 30 seconds. It is advisable to test all the sensors

BPW INTELLIGENT DRIVE CONTROL (IDC) SYSTEM

Your new Buccaneer caravans comes fitted with the BPW iDC system and here are some simple instructions on how it operates.

- (i) The sensors of the iDC system continually measure the lateral accelerations of the caravans axle(s).
- (ii) The iDC system immediately detects any risk of snaking and automatically and gently applies the caravan brakes. The gentle braking pulls the caravan back on track.
- (iii) iDC makes caravan maintenance easier by detecting slack in the braking system.
- (iv) In the event of a power failure the iDC fails safe so that it automatically returns to the starting position and the service brake is released and remains fully functional.

For full operating instructions please read the iDC document supplied within your document wallet.



SECURITY

Theft deterrent, prevention and security of your touring caravan is taken very seriously at Buccaneer. That is why we have provided a combination of standard features and optional extras designed to deter and prevent thieves from stealing your property. And in the unlikely event that they should succeed, aid the identification, speedy recovery of your property and assist in the prosecution of the thief.

Caravan Theft

The theft of a caravan can occur in the most unlikely circumstances; from a motorway service area, even from an owner's driveway. Secure all windows and doors when your caravan is unoccupied, even if only for a short length of time.

Phantom Tracker

Your new Buccaneer caravan is fitted with a Phantom Tracker as standard.

The Phantom ProActive Proiii is the market leading GPS tracking device specifically designed to meet all the requirements for caravans.

You must phone Tracker immediately to complete the activation process on 0161 476 4050

We will ask you for your chassis or vin number as part of this process though you need not be near the caravan when you make the call.

We will then send you an installation certificate along with your device number and emergency contact cards.

This latest generation technology adds a number of innovations including an internet portal to check your system and the ability to remotely control your Alde heating.

Please take the time to read through the information enclosed within the Document wallet supplied with your caravan and don't forget to return a copy of the installation certificate to us.

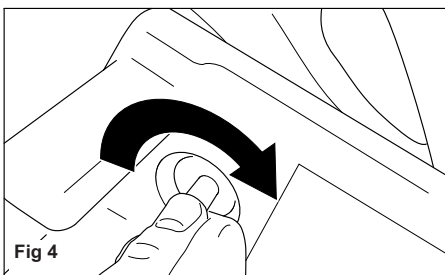
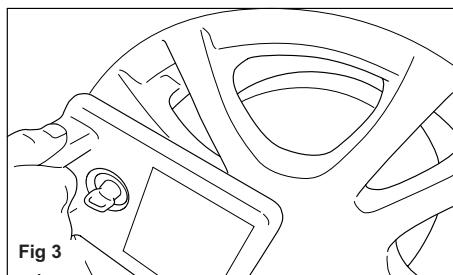
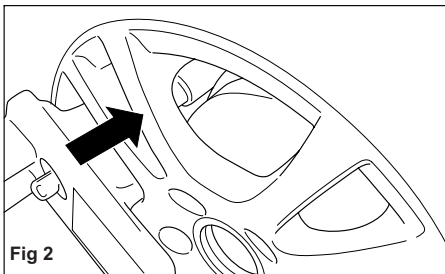
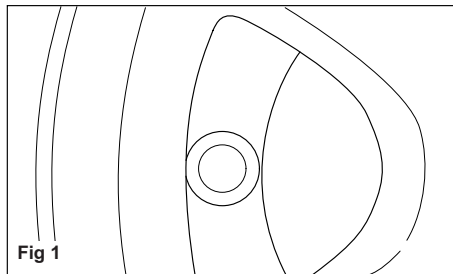
Your first year's subscription is included as part of the package. After this initial period Tracker will write to confirm your renewal options. For the last 10 years our annual cost has been £99. They have no plans to increase this, though there is a monthly Direct Debit option.



DIAMOND STANDARD WHEEL LOCK

How to fit your Diamond Standard Wheel Lock

1. The Diamond Standard Wheel Lock is fitted to the nearside wheels.
2. Move the caravan until the receiver is located between the wheel spokes (Fig 1).
3. Push the Diamond Standard Wheel Lock between the rim spaces so that the bolt fits into the receiver (Fig 2).
4. Push the Diamond Standard Wheel Lock up to the point where the base plate contacts the rim (Fig 3).
5. Lock the Diamond Standard Wheel Lock with the attached key (Fig 4).



Hints for using the Diamond Standard Wheel Lock

To keep the hole of the receiver clean, please use the supplied plug when the Diamond Standard Wheel Lock is not mounted.

Key Card

The number of the lock is only recorded on the key card. Without this card you will be unable to order any replacement keys.

Please keep your key card in a safe place and at all times separate from the wheel lock.

A jack is required to fit the second wheel lock and this is provided with your new caravan and should only be used for this purpose.



CRIS - THE CARAVAN REGISTRATION AND IDENTIFICATION SCHEME

CriS is the Central Registration & Identification Scheme that issues touring caravan registration documents, equivalent to that of the V5 registration document issued by the DVLA for cars. CRiS was established in 1992 by The NCC and provides a method of registering the 'keeper' details of every tourer manufactured by NCC member companies to help prevent and detect caravan related crime.

Why register with CRiS?

- Safety
- Security
- Warranty

Did you know?

- You should not take a tourer abroad without a registration document. If you go abroad your CRiS registration certificate provides the necessary proof, required by the police and other authorities, that you are its registered keeper.
- If you need to make a claim on your insurance, CRiS can help speed up claims by providing details of your tourer and its purchase date to relevant parties.
- CRiS can help your tourer's manufacturer contact you in the event that there is any kind of product recall or fault that could affect the safety of your caravan.

For help, support and advice contact CRiS:

NCC CRiS Ltd

PO Box 445

Aldershot

GU11 9SF

Tel: 0203 282 1000

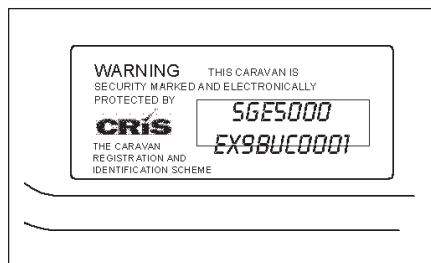
www.cris.co.uk

Opening Hours: Monday - Friday 8am to 8pm

Saturday 9am to 5pm

Sunday 10am to 5pm

WINDOW ETCHING & CHASSIS MARKING



The VIN number is stamped onto the chassis of the touring caravan and etched onto all of the windows acting as a further deterrent. Your Touring Caravan Registration Document will include a 17 character VIN (Vehicle Identification Number), shown in the top right -hand corner. This 17 character VIN will be die- stamped into the caravan drawbar and chemically etched on up to a maximum of 10 eye level windows. To protect yourself and your touring caravan, never leave the Registration Document in the caravan. For security reasons keep it in a safe place.

If you sell the caravan please follow the instructions on the Touring Caravan Registration Document.

Please note: If you do not receive a Touring Caravan Registration Document, lose it, or any of the details recorded are incorrect, please contact: CRIS - PO Box 445, Aldershot GU11 9FS. Telephone: 0203 2821000.

Spare windows stencils can be found in your owners information pack for use if you ever need to order a replacement window.

ELECTRONIC TAGGING

In conjunction with the CriS registration scheme, all Buccaneer touring caravans are electronically tagged during manufacture for added security and ease vehicle identification. The security tag containing the individual identity of your caravan is concealed within the caravan body and can only be read by using a special decoder.

Please Note: Your Local Police Can Obtain The Use Of A Decoder By Contacting C.R.I.S. on Telephone No. 0203 2821000.



ADDITIONAL SECURITY

Consider fitting any device which might deter or prevent intrusion by thieves. For example:
A wheel lock will prevent towing of the caravan and removal of the wheel.

FREE CRIME PREVENTION advice about securing your caravan, protecting your valuables, property marking, either at home or whilst on site, can be obtained from the Crime Prevention Officer through your local Police Station.



CARE OF YOUR CARAVAN

This section of the guide is devoted to the care, cleaning and general preservation of your caravan in order to retain its showroom condition.

EXTERIOR CLEANING

Under no circumstances should an abrasive or harsh cleaner be used. It is strongly recommended that you do not use a pressure wash. Exterior body parts of the caravan are extremely durable and easy to clean. It is recommended you first wash off any heavy dirt and mud with cold water then use a high quality car wash and wax then rinse with plenty of cold water.

CAUTION: The use of a pressure wash on your caravan is not recommended as it can lead to water entering the caravan via any of the external vents and could damage graphics.

ACRYLIC WINDOWS

Your caravan is fitted with shatter resistant acrylic windows. To preserve their clarity and unblemished transparency it is essential that the following cleaning instructions are strictly adhered to: Road grit, dust, sand, flies, lime tree secretions, bird droppings etc., should be washed off using plenty of cold water do not use a sponge to clean off heavy dirt deposits. Any remaining dirt should be washed off using a soft cloth and warm water.

Please note: Under NO circumstances should any abrasive cleaning agents, household detergents or proprietary cleaning fluids be used. Wash the window again using only cold water and dry off with chamois leather.

Please note: Should scratches appear on the acrylic windows these can often be removed with an acrylic polish, i.e. ICI Perspex polish. Gentle polishing with a liquid metal polish, i.e. Brasso may also have the desired effect - consult your retailer BEFORE attempting to remove any but the slightest scratch.

CARE INSTRUCTIONS FOR SEITZ WINDOWS

Use soap suds and plenty of water or Seitz special cleaning agents to wash the acrylic window. Use talcum powder to care for the rubber seals. Only use water and mild soap suds to clean the blinds.

Please note: Do not keep the blinds closed for long periods of time, as this can result in material fatigue.

CARE INSTRUCTIONS FOR SEITZ ROOFLIGHTS

Clean the acrylic rooflight with soap suds and plenty of water, or use the Seitz special cleaner. Use talcum to care for the rubber seals.

Only use water and mild soap suds to clean the blinds.

Please note: The 12-month guarantee becomes null and void if these instructions are not followed.

WINDOW BLINDS & FLYSCREENS

To clean the blinds and flyscreens, moisten a soft cloth or sponge with a small amount of water and mild soap suds and gently wipe dirt off. Allow to dry before retracting, failure to do this could result in mildew forming.

Pleated blinds where fitted should be cleaned using a soft brush and if necessary hoovered using a soft brush attachment on the device.

Winterisation/Storage

Please note: The blind/flyscreen should not be left in the down position when the caravan is not in use or throughout the winter as the memory of the mechanism may be lost.

INTERIOR WALLS

Your caravan interior walls will only require a wipe over with a damp cloth, using a mild detergent, to keep them in a 'showroom' condition.

FURNITURE

Treat your caravan furniture as you would the furniture in your home. Polish wood surfaces sparingly with a good quality wax or spray polish. Use a damp cloth to clean melamine laminated surfaces.



COOKING EQUIPMENT

Caustic pastes, abrasive cleaning powders, coarse wire wool and hard implements will damage the surface.

SOFT FURNISHINGS

Carpet

When cleaning the interior of your caravan please remove the carpet from the vehicle.

Vacuum the carpets to take the dirt out of the pile.

For general cleaning use a dry shampoo, following the products directions.

For stains, use a mixture of 1/3 bleach to 2/3 warm water. Immerse a soft cloth in the solution until wet, then wring and squeeze the cloth until damp. Rub the affected area until the stain has gone.

NEVER USE DRIPPING WATER

The proportion of water to bleach must be accurate.

Never put the carpet in a washing machine or a tumbler dryer.

Upholstery

Remove dust on a regular basis with your vacuum's upholstery or drape attachment. Try to avoid brushing fabric covers because that can damage the pile.

If you spill something on your upholstery, blot up the excess immediately. Avoid detergents which may damage the fabric's protection. Use a sponge or a clean white cloth but do not wash or rub the fabric. Leave to dry in normal conditions. These actions will not affect the Fire Retardant treatment of the fabric.

Heavy soiling will require professional cleaning. All fabrics will fade to some degree if exposed to direct sunlight.

Try not to leave newspapers lying on your cushions; ink can stain the covers. It isn't always easy to avoid that from happening, however, proper ventilation can help. Try to keep pets off the upholstery and be careful of sharp objects such as belt buckles, toys and watch straps snagging the fabric. If snags do occur, carefully cut off the loose ends with scissors or tuck back in - do not pull them under any circumstances.

WINTERISATION AND STORAGE

Mattresses are made from fire retardant fabric and are a C.M.H.R foam encapsulated sprung unit. It is recommended that mattresses be stored on edge during winter.

Try to keep your cushions away from direct sunlight.

Curtains

It is recommended that the curtains in your caravan are washed on a delicate cycle at 30°C. This will not damage the clip glides.

Shrinkage may be caused should you decide to dry clean your curtains.

Curtains should not be left closed during daytime otherwise some fading will be experienced.

SHOWER TRAYS, SHOWER ROOM AND WASH BASIN FITTINGS

Only clean your shower tray using soap and water. **Do not use** chemical based cleaning agents as this will attack the material.

CLEANING OF ALL TAPS

It is recommended that a non-abrasive damp cloth be used for cleaning the taps and showers.

WATER CONTAINERS

- (i) All water remaining in any water container should be disposed of so that the container is empty.
- (ii) The outside of external water containers should be thoroughly cleansed and washed down to remove any dirt, dust or other contaminant. Water at a suitably hot temperature containing an appropriate detergent is recommended for this purpose. Water should then be put into the container, swirled round, then emptied out.
- (iii) All containers should then be totally filled with water containing an appropriate disinfectant / sterilising solution and allowed to stand for the recommended contact time (e.g. Milton for 15 minutes).
- (iv) The solution should be emptied from the container.
- (v) The opening of any container should be



cleaned thoroughly with an appropriate pre-prepared wipe impregnated with a disinfectant / sterilising solution.

- (vi) External containers should be inverted whilst stored overnight (if possible).
- (vii) Containers must be filled with mains water only and mains water only should be used for the above cleaning procedure.
- (viii) On no account should garden hoses be used to fill water tanks.

WARNING: Under no circumstances should alcohol, spirit or solvent-based liquids be used on GRP or ABS plastic panels as these substances may react with the material and cause visible damage.

WATER SYSTEMS - STERILISATION

Clean the water system at the start and end of the season with sterilising fluid. When cleaning it is advisable to use a sterilising fluid e.g. Chempro SDP or similar.

Please note: It is recommended that for this operation the filter is removed as the fluid reduces the effectiveness of a new filter.

- (i) Drain down the system. (Open all taps to allow air in, enabling the system to drain quickly.) See Index - Water System, Draining.
- (ii) Remove any water filters fitted, and replace with a short length of hose or empty filter cartridge (this will ensure the filter is not affected by the disinfectant / sterilising solution).
- (iii) Fill the system by using the pump with a disinfectant / sterilising solution. (Check that the solution at full strength appears at all taps/showers). Allow to stand for the recommended period of time.
- (iv) Drain the system down completely.
- (v) Thoroughly clean the outside of all taps/ connectors with a cloth soaked in the disinfectant / sterilising solution.
- (vi) Flush the system through with clean drinking water until no traces of disinfectant / sterilising solution can be detected at any tap.

- (vii) After sterilising the system at the start of the season it is recommended that a new Ultraflow filter cartridge should be fitted.

Please note: Suitable sterilising chemicals are available from your Buccaneer Retailer, accessory shop, chemists, or home-brew shops. It is not, however, recommended to use bleach or sodium met bisulphide.

THETFORD TOILET

WARNINGS

- **Cold Weather Use - to prevent freezing during cold weather use, add antifreeze to the toilet system fresh water tank. Use a non-toxic (propylene glycol) type of antifreeze. Refer to chart on container to obtain level of protection.**
- **Warmer weather or longer intervals between emptying the waste tank may require additional toilet fluid. Use only Thetford toilet fluid to achieve the best results.**

CAUTIONS

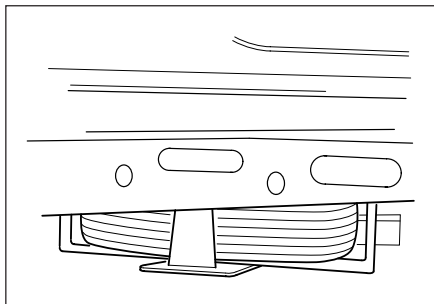
- Never add toilet fluid directly into toilet bowl.
- Do not use strong household detergents or cleaners that contain chlorine, solvents or acid contents.
- High Altitude and Hot Weather Use - with large temperature differences and changing heights during towing, over pressure can start to build up in the waste holding tank, causing contents to splash upward upon opening the valve blade if opened too fast.



CHASSIS MOUNTED SPARE WHEEL CARRIER

To gain access to your spare wheel lift the spare wheel carrier up and lift up the locking mechanism. Then move the mechanism to the horizontal position and the spare wheel carrier will be free to move over the mechanism and allow the spare wheel to drop to the floor to be removed.

To replace the spare wheel simply reverse the operation making sure that the quick release mechanism has been fully pushed down to create a positive lock. The carrier is of extra strong, lightweight construction and zinc plated for all weather protection. It is easy to fit and accepts all conventional wheel sizes.



TYRES

Please refer to your Technical Data sheet provided with your customer information pack for information regarding tyre pressures and axle loads.

Pressures

It is customary for manufacturers to mark tyres with load and inflation data. This information relates to the use of the tyre on cars. It is dangerous to drive with under inflated tyres. The pressures (cold) recommended by the manufacturers should be regarded as a minimum. Pressure checks, including those on the spare tyre, should be made with the tyres cold and using an accurate pressure gauge. The checks should be carried out before each journey and at regular intervals during storage.

Tyre Wear and Damage

The legal requirements for tread depth on motor vehicle tyres apply also to caravans. Similarly, it is not permitted to mix cross-ply and radial tyres on the same axle. A redundant tyre must be replaced by one of the same size and construction. Wheels should be changed round occasionally to equal wear and prolong the life of the tyres. A tyre should be renewed if a blister, rupture or cut exposing the casing is detected. If the tyre has suffered a violent impact e.g. against a kerb, it should be examined by a specialist as soon as possible.

CHANGING A WHEEL

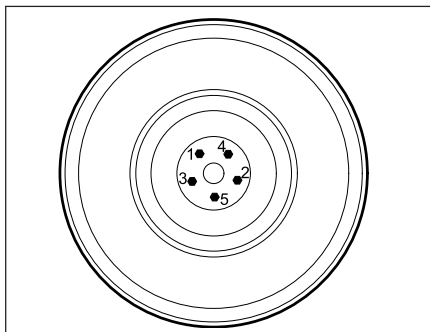
Whenever road wheels are removed and re-fitted, they must be tightened using a calibrated Torque Wrench set to 102Nm for steel wheels and 130Nm for alloy wheels.

Only use the wheel bolts supplied with your caravan. If you need to replace these bolts you should obtain bolts from an approved Buccaneer Retailer.

The bolt fixings should be tightened in the sequence shown in the diagram below. Do NOT simply tighten clockwise or anti clockwise. Remember to over tighten is just as dangerous as to under-tighten, as this can distort the wheel rims. Avoid the use of power wrenches. Wheel bolts should NEVER be lubricated.

Alloy wheel bolts can be used to fit the steel wheel until the alloy wheel is ready for refitting.

Never use steel wheel bolts to fit an Alloy wheel.



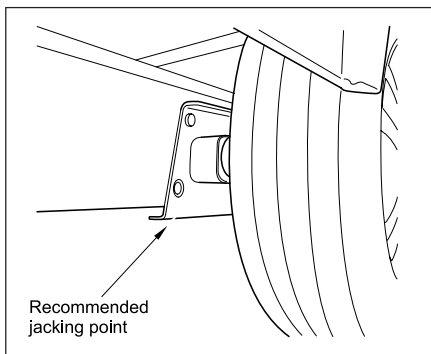


The corner steadies must not be used to jack up the caravan. They can be lowered to touch the ground only as a safety measure to stabilise the caravan.

- (i) Apply the handbrake fully as for parking. Do not forget to give the caravan a slight rearwards push to stop the reversing lever collapsing.
- (ii) Slacken off the wheel bolts on the wheel to be changed.
- (iii) Ensure all corner steadies are in the up position before commencing jacking of the caravan.
- (iv) With a suitable jack, jack up the caravan under either the axle tube or the axle mounting plate.

Please note: Do Not Use The Chassis As A Jacking Point. If there is lack of ground clearance because of a flat tyre, gently move the caravan onto some ramping boards.

- (v) Support the weight of the caravan with the jack and for added safety lower the front and rear corner steadies on the side of the flat tyre. Then remove the ramping boards.
- (vi) Remove the wheel bolts and remove the wheel.
- (vii) Before fitting the wheel, examine it for distortion or other damage. Ensure that all mating surfaces are clean and dry, including bolt/nut seats.



Please note: Always Use the Correct Bolts to Secure the Wheel - Check with the dealer if unsure.

Please note: A corner steady brace is not to be used for the next step.

- (viii) Insert the wheels bolts.
- (ix) After the bolts have been screwed in as far as possible by hand, each bolt should be tightened gradually in sequence. Do not over tighten at this point as the final tightening should be done with a calibrated torque wrench. The wheels of the caravan will not rotate during tightening as they are held rigid by the wheel hub brake unit.
- (x) Raise the corner steadies.
- (xi) Lower the caravan to the ground.
- (xii) The wheel bolts should be tightened ensuring that the torque is applied evenly around the wheel. Using a suitable torque wrench, sequentially tighten the steel bolts to a torque of 102Nm for steel wheels and 130Nm for alloy wheels following the sequence stated above.

IMPORTANT

- **The torque settings should be re-checked after 50 km (30 miles).**
- **Do not loosen the wheel bolts to carry out this operation whilst the road wheel is supporting the weight of the caravan.**
- **Wheel bolts should NEVER be lubricated.**
- **NB: If you upgrade from steel to alloy wheels you must ensure you use the correct bolts for the new wheel.**



Jacking up your Buccaneer Caravan

Under no circumstances should the corner steadies be used to jack up the caravan.

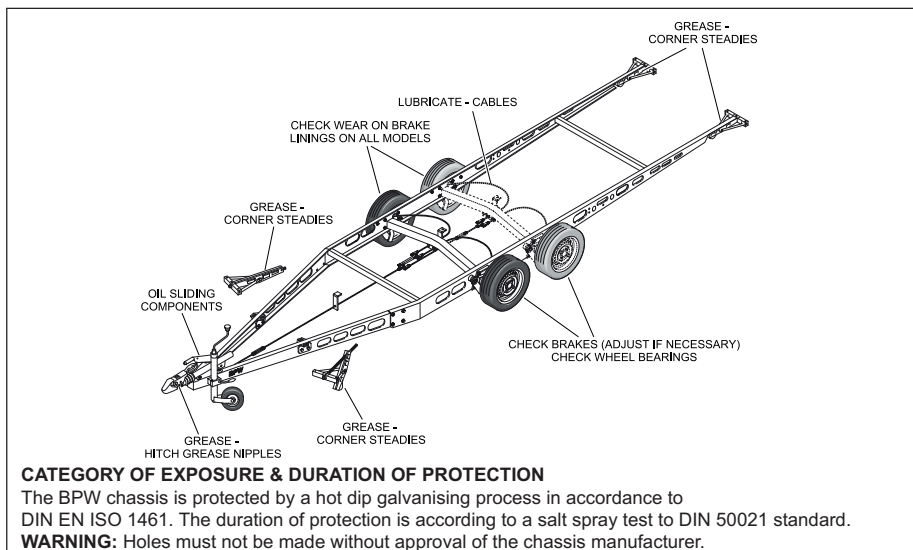
This is achieved by using the self levelling system fitted to your caravan. Full details of how to operate the system are contained within the E&P handbook contained in your caravans document wallet.

LUBRICATION

- Lubricate the Jockey Wheel
- Lightly oil the wheel axle and screw thread.
- Lubricate the Brake Linkage
- Lightly oil all moving parts.
- Lubricate the Corner Steadies
- Lightly oil the screw and pivot pins.



MAINTENANCE OF YOUR BPW CHASSIS



The following maintenance instructions relate to the BPW chassis fitted to your Buccaneer caravan. They are a constituent part of the warranty conditions. Adhere to the relevant operating instructions of the vehicle manufacturer or of the other vehicle component manufacturers.

Completion of the maintenance work in accordance with the prescribed intervals is essential in order to maintain the operating safety and roadworthiness of the vehicle.

The correction of any defects found or the replacement of any worn parts should be carried out by a BPW after sales service workshop, unless the vehicle user has at his disposal appropriately skilled in company workers and the necessary technical facilities.

Please note: When installing spare parts, it is strongly recommended that only original BPW components are used. Parts approved by BPW for caravan axles and suspensions regularly undergo special test procedures and as a result BPW is able to guarantee their quality. However, BPW cannot assess for every single third party product whether it can be used for BPW caravan axles and suspensions without any risk to safety. This applies even if an accredited test authority has already tested such products.

Our warranty becomes null and void if spare parts other than original BPW parts are used.

Procurement of Spare Parts

The code and type numbers of the axle and chassis components enable us to quickly determine your exact spares requirements when ordering from our BPW agencies and service stations. It is therefore recommended that you enter the data showing the type plate located on the centre of the axle.

Please note: For full maintenance details of the BPW chassis, undergear and Winterhoff coupling please refer to the individual manufacturer's handbook supplied within your user information pack.

CARAVAN MOTOR MOVERS

Any motor mover fitted shall comply with the design, fitment and safety requirements of NCC Code of Practice 305. The installation of a motor mover shall be in accordance with the motor mover manufacturer's installation instructions. You should ensure you receive a signed installation certificate of compliance from the installer.

Failure to do so may invalidate your warranty.



STORAGE

LONG TERM & WINTER STORAGE

If the caravan is to be stored for any length of time, especially over the winter period, the following operations are recommended:

- (i) Ensure all windows, roof lights, habitation and exterior locker doors are closed firmly and locked.
- (ii) Remove all soft furnishings which could be affected by damp conditions.
- (iii) Clean the caravan inside and out as detailed in the previous section.
- (iv) Drain the water system (see Water system).
- (v) For winter storage and to prevent frost damage all taps must be left in open position. For those caravans with lift up taps please ensure the taps are left in the central position.
- (vi) All blinds and flyscreens should be left in the retracted position. Check all fixed ventilation apertures are not obstructed.
- (vii) Ensure that the refrigerator/freezer compartment doors are secured in the vent position using the door catch.
- (viii) Check that the site you have chosen to store the caravan is open, fairly high and dry and if possible not exposed to gales etc. If this proves impossible it is recommended that the caravan chassis is anchored to the ground.
- (ix) Jack up the caravan (use bottle or screw jack, do NOT use the corner steadies) so that the wheels are clear of the ground.
- (x) Support the caravan axle with wooden blocks, axle stands or similar so that when the jacks are removed the wheels remain clear of the ground. Lower the corner steadies to 'just' site the caravan. Cover the tyres to prevent deterioration. Release the handbrake.
- (xi) Security: Lowering and locking the corner steadies and removing the wheels will reduce the risk of caravan theft.

CARAVAN COVERS

Caravan covers may be used to protect your new Buccaneer caravan provided that the cover used is of a breathable type.

Unscrew the TV antenna and ensure the cover is well tied down to avoid the cover being punctured.

Your caravan must be ventilated every 4 to 6 weeks if it is to be stored with a cover in place.

POWER DRAIN

To reduce the power drain while your caravan is in storage, ensure that your refrigerator is switched off.

Please note: Do not work under the caravan unless the corner steadies are down and the axle is supported.

Should the caravan be stored for a prolonged period of time it is strongly recommended that the caravan is fully serviced before the commencement of use. Your retailer will ensure that your caravan is safe, secure and ready for your enjoyment.

Please note: Caravans stored for any length of time should not have the handbrake or brakes applied. The wheels should be chocked or wedged and the handbrake released. The hitch head should be checked to see that it is fully extended and that there is no load on the braking system. It is recommended that you place a bowl of salt within your caravan to absorb any moisture during the winter months.



CARAVAN WARRANTY COVER

Introduction

At Buccaneer we are confident that our new caravans are engineered using the latest manufacturing techniques and advanced materials technology ensuring that, when buying one of our products, you are buying the very best. We extend this philosophy to our customers by offering long term peace of mind and reassurance through our extensive warranty cover.

Your warranty cover commences on the day your new caravan is purchased and comprises two key elements:

1. Three year manufacturer's warranty
2. Ten year body integrity warranty

Scope

This applies to all new Buccaneer products manufactured from 2012 model year onwards.

Three year manufacturer's warranty

Year 1 warranty - Covers all original components, including permanently fitted equipment forming part of the original product specification.

Year 2 and 3 warranty – Covers all original components, including permanently fitted equipment forming part of the original product specification, with the exception of the following items:

- Microwave
- TV
- Tyres
- Batteries
- Windows and glass
- Deterioration of exterior paint work
- Soft furnishings, carpets and floor coverings
- Entertainment equipment
- Fluorescent tubes, bulbs, LEDs and fuses
- Plastic and GRP exterior panels
- Plastic products including A-frame covers, wheel spats and shower trays
- Minor adjustment of blinds, hinges, catches, stays and doors
- Exterior decals

Ten year body integrity warranty

Buccaneer products are covered against water ingress damage for 10 years from the original date of purchase of a new product. (6 years for subsequent owners from the 1st owners original date of purchase). This applies to water ingress through any permanently sealed seam joints.

In order to comply with the terms of the above cover the following conditions must be met:

Reporting a fault

In the unlikely event that you experience a problem with your caravan please contact your retailer.

It is with the retailer that your contract of sale exists and consequently they have the responsibility to ensure any complaints and warranty issues are addressed. Any approved Buccaneer Retailer or Service Centre may carry out work at their convenience or discretion, but are not obliged to do so.

All Buccaneer products are classed as portable and therefore all work under warranty requires the caravan to be delivered and collected from the selling retailer.

The cost of transporting the caravan by any means to and from the place of repair is the responsibility of the owner.

Conditions attached to the warranty cover

If you have your caravan serviced at an NCC approved workshop and then warranty work is required, this work will have to be undertaken at an Elddis Approved Retailer or Service Centre and an additional charge may be required to cover the second inspection.

- You must retain the original sale invoice for the caravan.
- All new caravans must be registered with Buccaneer within 6 weeks of purchase as new. Your retailer can forward this information to us. Please keep us informed of any name or address changes by using the Notification of Change to Name and Address form.



- The caravan must have an annual service and damp check carried out by an Approved Buccaneer Retailer or Service Centre. Original invoices and damp reports must be retained as proof that the annual services have been carried out in accordance with our warranty terms.
 - Service intervals:
 - a) In years 1, 2, and 4 through to 9 the service must be completed no more than 60 days either side of the anniversary of the date of purchase.
 - b) In Years 3 and 10 the service must be completed no more than 60 days before the anniversary of the date of purchase.
 - c) For second owners the service in years 3 and 6 must be completed no more than 60 days on or before the anniversary of the original date of purchase.
 - d) No service interval should exceed 14 months.
 - e) **Failure to service the vehicle within the specified time limits will invalidate your warranty.**
 - Where an annual service identifies that repairs are necessary the caravan must be made available for repair within six weeks of the date of inspection for the purpose of carrying out the repair work. Buccaneer reserves the right to inspect the vehicle before work commences.
 - Work may only be undertaken by an Approved Buccaneer Retailer or Service Centre and only after approval by Buccaneer (depending upon individual circumstances).
 - Buccaneer will pay the costs of remedial work to the repairer, only after approved work has been carried out. The cost of transporting, towing or moving the caravan by any means to or from the place of repair is the responsibility of the owner.
 - The Policy is not retrospective and is applicable to 2012 model year caravans onwards.
 - No liability will be accepted for any consequential loss, damage, costs, expenses or other claims for compensation arising which were not reasonably foreseeable by both parties when the caravan was originally purchased.
 - No liability will be accepted for damage caused by fair wear and tear, rodent damage, willful damage, negligence or abnormal working conditions.
 - No alteration may be made to the original construction.
 - In the case of a dispute Buccaneer will appoint an independent arbitrator. Buccaneer will pay for the costs of arbitration, subject to the owner paying a £250 deposit.
 - If the arbitrator finds in favour of the customer, then the deposit will be returned. If the arbitrator finds in favour of Buccaneer, the customer will lose their deposit.
 - Where the arbitrator awards a sum of money less than an offer made by Buccaneer, which has already been rejected by the customer, then their deposit is forfeited.
 - In all cases the arbitrator's decision is final and both parties must agree to abide by the decision.
- Elddis reserve the right to inspect the caravan at any time.
- ### Exclusions
- Warranty cover is not given for caravans if they have been used under any of the following circumstances:
- Used for hire.
 - Used as a permanent residence
 - Towed behind a commercial vehicle
 - Used for racing or time trials
 - Damage resulting from freezing, accident or fire damage
- ### Mains electrics
- It is recommended that you have your mains electrics system inspected by a NICEIC approved contractor every 3 years.



Transfer of ownership

If you purchase this vehicle as a used vehicle it may be possible to transfer the unexpired term of the warranty cover (up to a maximum of six years commencing at the original date of purchase from new). The warranty cover for a used vehicle commences from the original date of purchase from new and is as follows:

1. Three year manufacturer's warranty
2. A maximum of six years' body integrity warranty

The warranty is subject to the usual terms and conditions' set out in the handbook and is only transferable on payment of a £50 administration fee. Full documentary evidence that the caravan has been serviced annually should be provided at the time of transfer, in accordance with the terms and conditions of the warranty stated in the handbook. Transfer of ownership must be completed within three months of change of legal ownership. Please complete the Notification of Change of Ownership form in your handbook.

This warranty does not affect the purchaser's statutory rights. The warranty shall be governed and construed in accordance with the laws of England and the parties irrevocably submit to the exclusive jurisdiction of the courts of England.

For second owners the service in years 3 and 6 must be completed no more than 60 days on or before the anniversary of the original date of purchase.

NON WARRANTY REPAIRS

Should you require any replacement parts for your caravan it is necessary that you contact the Retailer from whom you purchased the caravan or any Buccaneer approved Retailer and give the following information, which will help in identifying the required component:

- (i) Model and make of caravan
- (ii) VIN number
- (iii) Description of required part
- (iv) Photograph, size or diagram of required part

Please note: All parts must be ordered and supplied through an approved retailer.

REMEDIAL WORK

Buccaneer, together with its suppliers is continually undertaking extensive research into testing, remedial work procedures and materials such as sealants, adhesives, gaskets and tapes. Therefore, if for any reason your new caravan is damaged or requires remedial work then only an approved Buccaneer Retailer or Service Centre should undertake such work.

All such work should be undertaken using only approved Buccaneer genuine parts, recommended sealant and following Buccaneer procedures. Buccaneer will also undertake to supply certain specialist repairers with the necessary spare parts. In this case, your selected repairer must contact the PARTS DEPARTMENT with all enquiries.



CARAVAN CONSTRUCTION - MAIN COMPONENTS

The following is a brief description of the main components used in your caravan. More comprehensive descriptions can be found in the equipment manufacturers literature held in the Owner's Information Pack.

BPW CHASSIS

BPW are one of the largest producers of caravan chassis in Europe. The chassis is galvanised special steel fitted with neidhart axles and suspension system. Buccaneer utilises the new BPW V-TEC Chassis System.

Please note: Holes must not be drilled into the chassis. When purchasing a stabiliser, consult your retailer who will advise on the correct type to fit.

BRAKING SYSTEM

The Braking System comprises a rod operated overrunning device with expander mechanism and adjuster box. An automatic reversing system with a spring loaded reverse lever is attached to the adjuster box. The system also incorporates a link device, which gives added safety to the handbrake operation when parking on a reverse slope or steep hill. Brake adjustment instructions are given in the maintenance section of this guide.

SOLID CONSTRUCTION BODY SHELL

Buccaneer Caravan Bodies are constructed from the highest quality materials. The fully insulated floor is a constructed timber frame with plywood internal floor and a GRP underskin for added water resistance and insulation laminated together for strength. The walls comprise an insulated foam sandwich having one piece GRP sides for ultimate resistance to minor damage and vinyl coated plywood internal finish. Wooded framing is positioned within the sandwich to add strength. The latest technology is used to produce the extremely well insulated and robust, yet lightweight sections.

WINDOWS

Windows are all of a double glazed acrylic construction and the door frames are extruded aluminium.

INSULATION

Buccaneer caravans are built to comply with grade 3 thermals insulation in accordance with the European Standard BSEN 1645 part 1. This states that an average temperature difference of at least 20°C between the inside and outside temperatures should be achieved when the outside temperature is 0°C.

FRONT PANEL AND GAS BOTTLE LOCKER DOOR

The front panel is constructed from glass reinforced plastic whereas the gas locker door is constructed from moulded acrylic for strength and lightness.

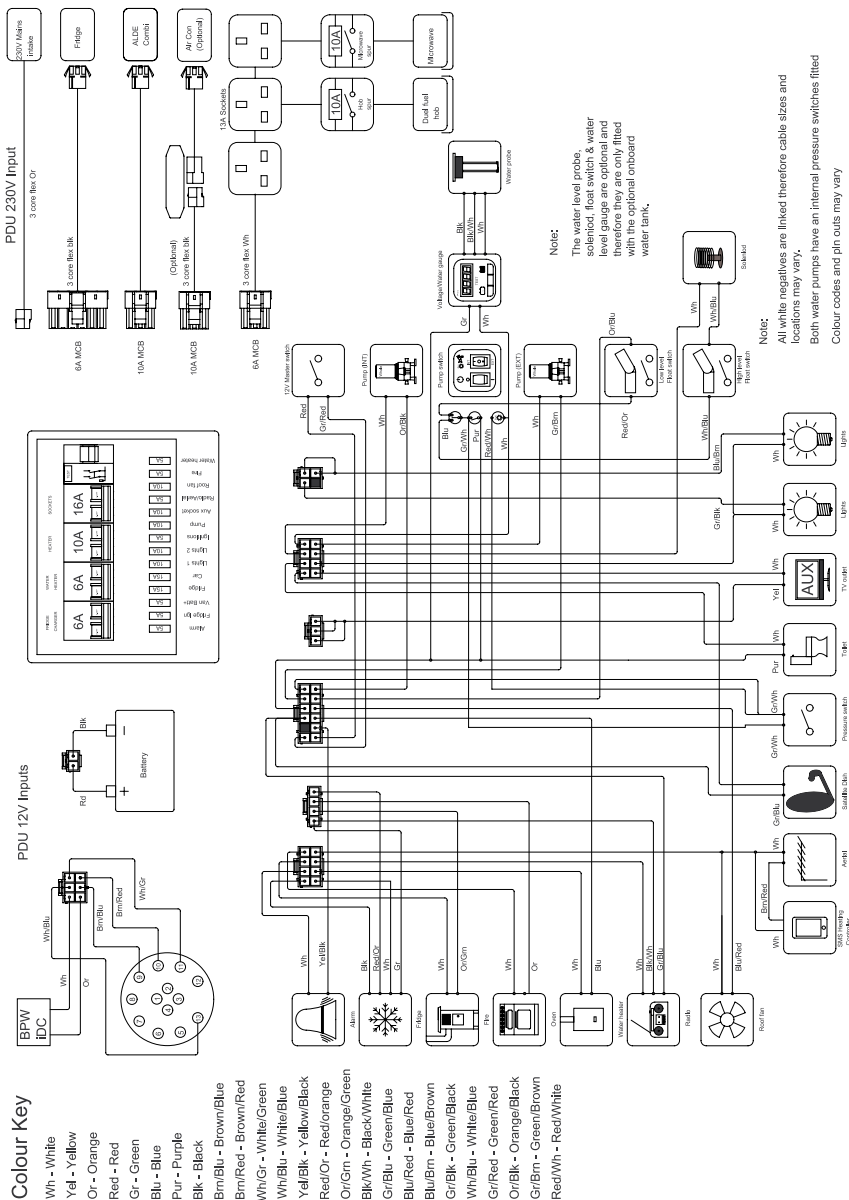
AWNING CHANNEL

Each caravan is fitted, as standard, with an awning channel as an integral part of the near- and/or off-side aluminium roof and body side moulding. If it is found necessary to fit additional attachments, care must be taken to ensure that any holes which are drilled in the outside of the body are correctly sealed.

**EQUIPMENT LIST****BUCCANEER**

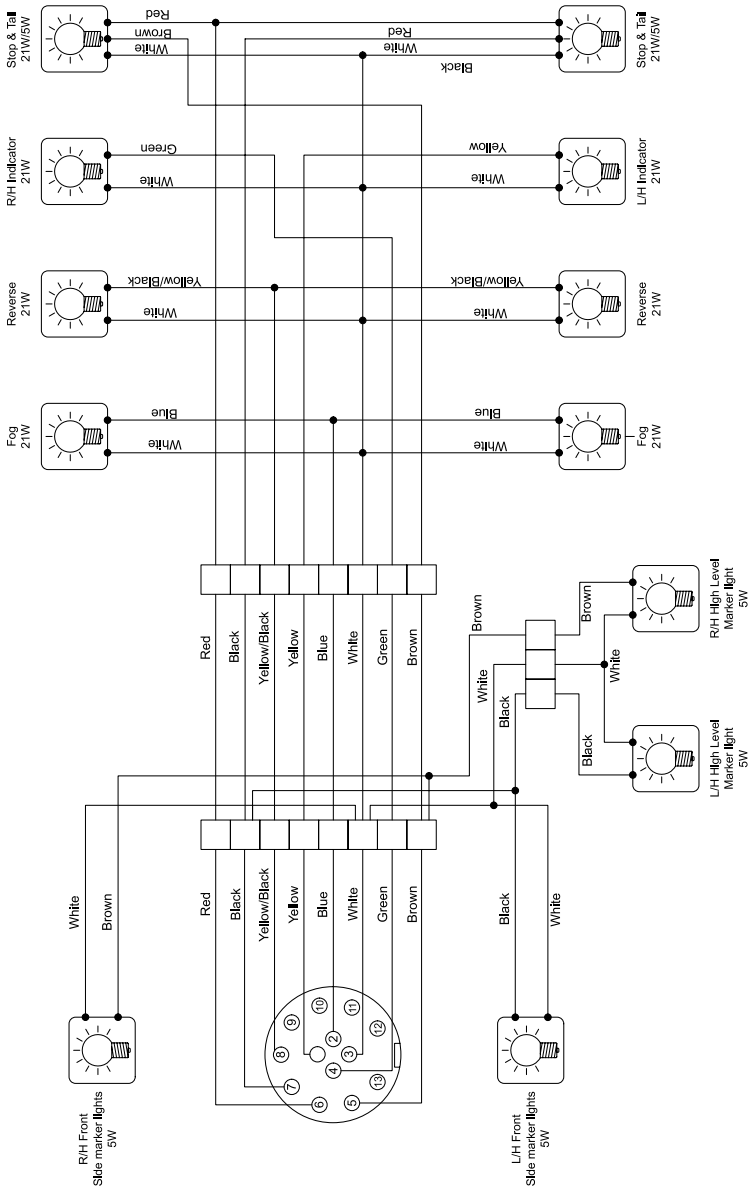
CHASSIS	BPW
SPACE HEATER	ALDE COMBI 3020
WATER HEATER	ALDE COMBI 3020
HOB	THETFORD ASPIRE 2
GRILL	THETFORD ASPIRE 2
COOKER	THETFORD ASPIRE 2
REFRIGERATOR	DOMETIC RMS8551 (SINGLE) RMSL8501 (TWIN)
MICROWAVE	DAEWOO
TAPS	CARAFAX MIXER TAP L240/L120
TOILET	THETFORD C260S
ELECTRICAL CONTROL PANEL	CBE
WATER FILTER / PUMP	WHALE IC SYSTEM WITH HIGH FLOW PUMP
12V READING DOWN LIGHTS	BCA EYEBALL LED
LIGHTS RECESSED LED	BCA LED RECESSED

WIRING DIAGRAM - BUCCANEER





ROAD LIGHTS - BUCCANEER





GENERAL QUESTIONS

Q: Where Can I Obtain Your Latest Brochure?

A: Our latest brochures are available from Approved Retailers or can be viewed and printed from the *download* section on our website www.buccaneer.co.uk. A request form can also be completed should you wish to receive a printed copy of our latest brochures.

Q: Why Is the Handbook Not Specific To My Model?

A: Many of the components used in the manufacture of our caravans are identical throughout our model ranges, so we produce a generic handbook, which covers all models manufactured for that season. If the literature supplied with your caravan does not answer your question then please contact your Retailer for further assistance.

Q. I Require Technical Or Other Information, Who Can Help Me?

A. The majority of information you require is available through your Buccaneer Retailer.

Q - Can You Tell Me The Second Hand Price Of My Caravan?

A - As a manufacturer we are not involved in the second hand market. You should contact a Retailer, The Camping and Caravanning Club and/or The Caravan Club. They should be able to give some indication of market value.

Q: How Can I Avoid Excessive Caravan Snaking When I Tow And What Should I Do If It Starts?

A: Buccaneer has extensively tested our caravans and we are confident of their stability. However, many other factors can influence your towing unit. When loading your caravan put heavy items low down and mainly over the axle(s). You should not stow tins, bottles or heavy items in overhead lockers, during towing. Everything else should be distributed evenly around your caravan, front and back, and each side of the centre line. Should snaking start, if at all possible don't brake and don't compensate by steering into the swings. Just ease up on the accelerator and allow your speed to gradually decrease until the snaking subsides.

Q: What Is The Correct Awning Size For My Caravan?

A: Ground to ground awning measurements for Buccaneer caravans can be found by looking in the latest model section, the Product Archive section on our website, or by referring to the relevant Technical Data Sheet. However, we advise you verify this information by threading a piece of string through the awning channel from ground to ground, and then by measuring the string. Your awning manufacturer will then advise on the nearest size of awning appropriate for your measurement.

Q: Can I Fit A Bicycle Rack/Top Box/Air Conditioning To My Caravan?

A: It may be possible to fit accessories to your caravan but this will depend upon the internal construction of the roof/walls and whether they can support the weight of the accessory. If it is possible your Retailer will be able to advise you, (or alternatively they will obtain confirmation and a drawing where necessary, from Buccaneer). Please note that weight of any accessories will reduce your User Payload allowance.

Q: My Interior Lights Are Not Working, What Do I Do?

A: It is possible that all of the 230V mains electrical equipment may not be operated simultaneously. Check fuses, battery connections and power supply (master light switch). Refer to your Retailer for further assistance. PLEASE NOTE: The internal lights in your caravan will not operate whilst the caravan's electrical hitch cables are connected to a towing vehicle with the engine running.

**Q: Where Can I Get Spare Parts For My Caravan?**

A: Retailers will be able to source most parts you require. For details of your nearest Buccaneer Retailer please refer to our Find A Retailer section on our website, or call 0371 964 2113 for assistance.

Q. How Many Years Will Spare Parts Be Available For My Caravan?

A. Buccaneer will endeavour to supply spare parts for a caravan, for at least 8 years from new.

Q. What If The Parts Are No Longer Available?

A. Where an original part is no longer available, whenever possible we will suggest a suitable alternative if it is available.

Q. Who Can Carry Out Warranty Work On My Caravan?

A: Your supplying Retailer is obliged to undertake your warranty work. However, any approved Buccaneer Group Retailer or Service Centre can undertake the work, but this is at their discretion. We will also accept services completed by a NCC approved service centre, but they will not be able to undertake warranty work if they are not approved by Buccaneer.

Q. Why Don't You Stock Parts At Buccaneer?

A. Due to the volume of models we produce it is not possible for us to maintain stock levels of every individual component used in our manufacturing process. We do stock commonly requested items, but some items must be made to order.

Q. I Am Having Trouble Booking My Caravan For Its Service, In Line With The Requirements. What Timescale Is Acceptable?

A. Please refer to the warranty section for the terms and conditions of servicing. We would recommend that you plan your services in advance in order to meet the requirements.

Q. I Have A Problem With My Caravan, Who Can Help Me?

A. We would always recommend that you contact your supplying Retailer. Your local Buccaneer Retailer or Buccaneer Approved Service Centre may be able to assist. An inspection can then take place and the necessary course of action agreed.

Q. I Am Unhappy With The Service I Have Received From My Retailer/Service Centre, Where Do I Go From Here?

A. We would recommend that you write to your Retailer/Service Centre, detailing your problems and requirements, requesting a response explaining how they will resolve your complaint. A copy of your letter can also be forwarded to Buccaneer Customer Care Department, quoting the serial number of your caravan and the name of the Retailer/Service Centre. Please be assured that we will assist your Retailer/Service Centre in resolving any problems.



GLOSSARY

13 pin plug

The plug used to connect the caravans electrical system to your towing vehicle to enable the road lights, refrigerator and battery charger to operate during towing.

A Frame

This is the triangular part at the front of the caravan's chassis which is between the main body and the hitch it is also called the drawbar.

ABS

This is an acronym for anti-lock braking system.

Actual Laden Weight

This is the total weight of the caravan when loaded ready for use by the end user.

Aquaroll

Brand name used generically for a water container that rolls so you don't need to lift it.

Awning

This is a tent-like structure of fabric over a supporting framework, which can be attached to the side of caravan.

Battery Charger

This is required to keep a leisure battery charged. Most caravans include a charging facility which operates via the mains hook-up, and also has the ability to recharge from the tow car's alternator while travelling.

Berth(s)

Sleeping place - Refers to the number of people a caravan can accommodate for sleeping.

Blown Air Heating

A method of heating the living quarters of a caravan by use of a fan pushing air out through a number of outlets.

Breakaway Cable

A thin steel cable linking the caravan handbrake to the vehicles tow bar - In the event of the caravan becoming detached

from the car, the cable will pull the caravan handbrake on before snapping.

Bunk Bed

This is a sleeping place, usually higher up than a conventional bed. Often (but not always) this can be folded or removed to provide additional living space.

Butane

Is a form of Liquefied Petroleum Gas (LPG) which normally comes in blue cylinders. This type of gas is most commonly used in the UK, although a switch to propane is advised in severely cold weather conditions.

Calor

This is the main supplier of propane (red) gas cylinders and significant seller of butane (blue) gas.

Campingaz

This is the trade name of Butane gas.

Cassette Blind

This is a roller blind which is fitted as part of the window assembly, often along with a flyscreen, thus giving a neat installation.

Cassette Toilet

A form of chemical toilet found in modern caravans, where the waste holding tank can be accessed and emptied from, outside.

Chemical Toilet

Most modern caravans have them, with more up market models having a fully plumbed-in flushing version.

Control Panel

Used as the description for the panel of electrical switches and gauges governing 12V and mains electricity systems.

Corner Steadies

The winding device built into each corner of a caravan chassis that is used to stabilise the body once set up on a pitch.



Coupling Head - See hitch.

CRIS

This is the Caravan Registration and Identification Scheme. It is a voluntary scheme which registers caravans in a similar manner to how motor vehicles are registered. Allows you to check the legitimate right to ownership of the seller of a secondhand caravan, and helps in the recovery of stolen caravans.

Dinette

This is a popular style of seating arrangement where two seats or settees face each other across a table.

Earth Leakage Circuit Breaker

ELCB Earth leakage circuit breaker - see residual current device (RCD)

End Kitchen

A common term used to describe floor plans which put the kitchen across the rear, usually adjacent to a caravan door on one side and washroom on the other.

Essential Habitation Equipment

Those items and fluids required for the safe and proper functioning of the equipment for habitation as defined by the manufacturer of the caravan.

Flyscreens

Mesh fittings for windows doors and roof vents, to keep out insects etc.

Free-Standing Table

This is a table which, because of its leg design, can be used inside or outside.

Full Service Pitch

This is a pitch which has individual provision for fresh water supply and waste water disposal, in addition to mains electricity and in some cases TV aerial connection.

Gas Cylinder

This is a portable, pressurised container for the storage of LPG.

Gas Cylinder Locker

Is the compartment on the caravan for the storage of gas cylinders.

Gas Drop out Holes

These are not part of the ventilation. LPG is heavier than air, so holes through the floor below gas-powered appliances allow any leakage of gas to exit the habitation area.

Grey Water

This is the waste water from sink/shower.

Gross Train Weight

This is also known as Combined Weight. The maximum permitted weight of an outfit as specified by the tow car manufacturer.

Gross Vehicle Weight (GVW)

This is the weight of the vehicle laden to its maximum, as defined by the manufacturer. See also MTPLM.

GRP

Is Glass-reinforced plastic, but more commonly known as glass fibre (not fibre glass, which is a trade name).

Handbook

This is a owners manual, a guide to the workings of your caravan.

Hardstanding

This is a pitch which has a hard surface made of gravel, asphalt, concrete etc, instead of grass.

Hitch

This is the mechanism which allows a caravan to be attached to a tow ball.

Hitch Lock

A security device that prevents the caravan hitch being used.

Hook-Up

This is a facility on a pitch for connection to mains electricity.

**Ingress**

The entry of water into the caravan structure.

Jack

This is a device for raising the vehicle so that a wheel can be changed, for instance. Not to be confused with corner steadies which although they are sometimes referred to as 'corner jacks' are steadying, not lifting devices.

Jockey Wheel

The small front wheel attached to the caravan A-frame used to support the forward end of the caravan, when detached from the towing vehicle.

Kerb Weight

This is the empty weight of a motor vehicle as defined by the manufacturer.

Layout

This is the interior design and details where furniture units are placed in relation to each other.

Leisure Battery

This supplies the power for the caravan electrical systems and is sometimes called an auxiliary battery.

Levelling

The process of ensuring that a caravan is level when sited on a pitch. It is important for comfort and also to ensure the correct functioning of the fridge and water systems.

LPG

Liquid Petroleum Gas, i.e. butane or propane.

L-Shaped

This is a term where the seating area of a caravan is indeed L-shaped.

Mains Hook-Up

This is a campsite facility where you can plug into a mains electricity supply.

Maximum Hitch Height

The maximum height at which the hitch should be connected to a towing vehicle.

Maximum Permissible Towing Weight

This is the maximum weight that the towing vehicle is allowed to tow.

Maximum User Payload

This is the maximum payload available for the user.

MIRO - Mass In Running Order

Weight of the caravan equipped to the manufacturer's standard specification including essential habitation equipment..

MTPLM - Maximum Technically Permissible Laden Mass

The technical maximum permissible laden weight of the caravan, this must not be exceeded.

NCC (National Caravan Council)

The only trade association representing manufacturers, retailers and suppliers within the caravan industry.

Nose weight

The weight exerted on the tow bar. Special scales are available from accessory shops for measuring this weight.

Number Plate

Caravans must display a legal number plate showing the same registration mark as their towing vehicle.

Optional Equipment Payload

The payload required for equipment to enable the caravan to be used for habitation purposes.

Outfit

The caravan and its towing vehicle considered as a unit.

Owners' Club

This is a group of people who usually own the same brand of caravan and enjoy meeting up for rallies.



Payload

The amount you can put into a caravan. Specifically the difference between the Maximum Technical Permissible Laden Mass (MTPLM) and the Mass In Running Order (MIRO).

PDI

This is an inspection undertaken by the Retailer prior to handover to the customer.

Pitch

A designated area of a caravan site allocated for the use of one outfit. Most sites will be arranged with defined pitches.

Propane

Gas used in colder conditions and is usually supplied in red cylinders.

RCD

This is a residual current device and is part of the electrical system which will 'trip' if there is an electrical fault.

Gas Regulator

Safety device fitted between the gas cylinder and the gas system of a caravan, which controls the pressure of gas being released from the cylinder.

Road Lights

The external lights used while the vehicle is travelling.

Roof Lights - See Roof Vent.

Roof Vent

Is an opening unit in the ceiling which lets in ventilation and light, these vary in size, but the best ones will have integral blinds and flyscreens and are also called rooflights.

Semi-Rigid Pipe work

Is water pipes made of a semi rigid plastic and are infinitely preferable to cheaper convoluted piping which can act as a trap for germs and smells.

Single Axle

This is a caravan with a single pair of wheels on one axle. See also twin axle.

Slats

Sometimes used for beds and can improve ventilation to mattress cushions.

Space Heater

This is a type of heating equipment for the living quarters. Modern units fitted offer gas and mains-operation.

Speed Rating

This is the maximum speed at which a tyre may be used, as marked on its sidewall.

Stabiliser

A safety device which helps to prevent instability, this is done by increasing the friction between the caravan hitch and the tow ball.

Steady Winder

A handle for operating the corner steadies.

Torque Wrench

A form of spanner used to set nuts and bolts to a specified degree of tightness. It is recommended for adjustment of wheel fixings on caravans.

Towing Limit

See manufacturer's braked towing limit and manufacturer's unbraked towing limit.

Towing Mirrors

Additional rear vision mirrors added to a towing vehicle to provide a greater width of view to see past a caravan.

Train Weight

The maximum permissible combined weight of tow car and touring caravan.

Twin Axle

Is a caravan with two pairs of wheels, on two axles which are located close together. These are usually the larger, heavier caravans, where the second axle helps carry the greater weight more easily, and also makes a longer caravan more stable to tow. See also single axle.

**User Payload**

The weight of all items carried in the caravan.

U-Shaped Settee

Usually a reference to seating that literally is 'U' shaped.

Vehicle Kerb weight

The weight of the tow car often indicated in the manufacturers specifications..

VIN - Vehicle Identification Number

This is a unique serial identification number for a vehicle. All Cars and motor caravans should carry a VIN. Caravans are not obliged to, but most of those sold in recent years in the UK do as a result of the CRiS voluntary registration scheme.

Warranty

Is the terms and conditions that spell out your rights with regard to servicing, repair or replacement of parts as provided by the manufacturer.

Wild Camping

Term used for staying overnight away from a campsite. Illegal in many countries, but permission may be granted by individual landowners.



SERVICE DOCUMENTS

TOURING CARAVANS - ANNUAL SERVICE RECORD

In order to take full use of your warranty offered by Buccaneer it is essential that your caravan is serviced within the time scale laid down in the warranty terms and conditions. See Index - Warranty Terms & Conditions. Whether you use your caravan for short journeys or for touring at home or abroad, regular servicing will help to ensure that you can enjoy it to the full. The Annual Service offered by your retailer will include the following work and it is our recommendation you have your caravan serviced to this standard annually, in accordance with the NCC recommendations.

The retailer will complete the record in this guide to show the work has been carried out.

SECTION (A) CHASSIS

1. Brakes
2. Suspension
3. Axles and Hubs
4. Tyres and pressures
5. Wheeled nuts
6. Towing hitch and reverse
7. Jockey wheel
8. Breakaway chain
9. Corner steadies
10. Adjusted and lubricated
11. Fully operational

SECTION (B) EXTERIOR

1. Exterior panels
2. Windows
3. Rooflights
4. Entrance door/Door locks
5. Wheel boxes
6. Mouldings
7. Gas bottle and fairing
8. Ventilators
9. Paintwork
10. All seals, mouldings etc.
11. Damp test
12. Striping etc.

SECTION (C) INTERIOR

1. Wall panels
2. Furniture
3. Curtains/Blinds/Flyscreens
4. Mattresses

5. Carpet
6. Doors and drawers
7. All hinges and catches
8. Ventilators
9. Water pumps
10. Hoses and sink plugs
11. Hot water system
12. Cold water system
13. Window hinges and stays
14. Cassette toilet
15. Shower
16. Shower tray
17. Central heating
18. Damp test

SECTION (D) ELECTRICAL

1. Reflectors
2. All interior lights/Road lights
3. Water pump and switches
4. Refrigerator
5. Distribution unit
6. Charging unit
7. Junction box/Strip
8. Wiring and supports
9. Trailer connecting plug sockets
10. Overall tests etc.
11. Awning lights
12. Electronic ignition (hob)
13. 230V system where applicable

(Continued)



SECTION (E) GAS INSTALLATION

1. Hotplate
2. Refrigerator
3. Heater
4. Leak tested
5. Water heated
6. Fully operational

SECTION (F) FINAL

Road test

CARE WARRANTY

It is a condition of this warranty that a service and safety check is carried out by your caravan retailer at least once a year (12 months from the date of purchase) in accordance with the NCC recommendations.

ANNUAL SERVICE RECORD

MODEL

VEHICLE IDENTIFICATION NUMBER YEAR

1st SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

2nd SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

3rd SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

4th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.



5th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

6th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

7th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

8th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

9th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

10th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

11th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

12th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.



13th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

14th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

15th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

16th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

17th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

18th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

19th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.

20th SERVICE

DATE:

RETAILERS STAMP:

I/We certify that an annual service has been carried out in accordance with the manufacturers' and NCC recommendations.



NOTIFICATION OF CHANGE OF OWNERSHIP

If you purchase this vehicle as a used vehicle it may be possible to transfer the unexpired term of the warranty cover (up to a maximum of six years commencing at the original date of purchase from new). Please refer to the warranty section of the handbook for terms and conditions.

Please complete the attached form and post it to us along with the following information:

- A copy of the new CRIS registration form
- A copy of the service handbook displaying complete and up to date service history*
- A cheque for £50 made payable to Buccaneer

Transfer of ownership must be made within the first three months of any change of legal ownership in order for the warranty cover to remain valid.

Buccaneer Customer Care

Delves lane

Consett

County Durham

DH8 7PE

www.elddis.co.uk

This form is also available for you to print from our web site.

.....<

NOTIFICATION OF CHANGE OF OWNERSHIP

Previous owner details (if known):

Name:

Address:

.....

..... Post code:

Email:

New owner details:

Name:

Address:

.....

..... Post code:

Daytime telephone number: Date of purchase:

Email:

Details of Caravan:

Range: Model:

Vehicle identification number (17 digits):

* In order for you warranty to remain valid, your caravan must have been serviced annually by an Approved Buccaneer Retailer or Service Centre.

If you do not want to receive information about products and services from Buccaneer, please tick. ☐



NOTIFICATION OF CHANGE TO NAME AND ADDRESS

In order that we can provide you with the very best level of service we ask that you keep us informed of any changes to your contact details.

Should your details change please complete the online form on our website, in our 'Customers' section. Alternatively, please complete the attached form and post to us:

Buccaneer Customer Care
Delves Lane
Consett
County Durham
DH8 7PE
www.elddis.co.uk

.....✂.....

NOTIFICATION OF CHANGE TO NAME AND ADDRESS

Previous details:

Name:

Address:

.....

..... Post code:

Email:

New details:

Name:

Address:

.....

..... Post code:

Daytime telephone number: Date of purchase:

Email:

Details of your Caravan:

Range: Model:

Vehicle identification number (17 digits):

If you do not want to receive information about products and services from Buccaneer, please tick. ☐



USEFUL ADDRESSES

AL-KO (Chassis Supplier)

South Warwickshire Business Park
Kineton Road, Southam
Warwickshire, CV47 0AL
Fax: 01926 818562
email: mail@al-ko.co.uk

Thetford Ltd

(Hobs, Grill, Oven and Toilet supplier)
Unit 19, Oakham Drive
Parkwood Industrial Estate
Rutland Road, Sheffield, S3 9QX
Tel: 0114 273 8157
Fax: 0114 5753094
email: infogb@thetford.eu

Alde International (UK) Ltd

(Wet central heating supplier)
Huxley Close, Park Farm South
Wellingborough, Northants, NN8 6AB
Tel: 01933 677765
Fax: 01933 674975
email: info@alde.co.uk

Dometic (UK) Ltd

(Fridge Supplier)
Dometic House, The Brewery
Blandford St Mary, Dorset, DT11 9LS
Tel: 0844 626 0133
email: technical@dometic.co.uk

Whale Ltd

Munster Simms Engineering Ltd
2 & 2A Enterprise Road, Bangor
BT19 7TA
Northern Ireland
Tel: 02891 270531

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All the illustrations and descriptive matter in this guide are intended to give a general idea of the caravan. Changing market and supply situations may prevent the manufacturer from maintaining the exact specifications and details in this handbook and we therefore reserve the right to alter specifications and materials as conditions demand.

Retailers are independent of the manufacturer and have absolutely no authority to bind the manufacturer by any express or implied undertaking or representation.

Model Year 2015