



RETREAT

Alu-Tech Bodyshell



*For people who know
where they are going*

www.bailey-retreats.co.uk



Model _____

Leisure Home V.I.N. Number (On exterior windows & Chassis) _____

Owner's Name _____

Address _____

Tel. No. _____

Habitation Key Number _____

Retailer's Name _____

Retailer's Address _____

Tel. No. _____

Site Name _____

Site Address _____

Tel. No. _____



1.1	INTRODUCTION	1-1	3.5.2	Oven	3-18
1.1.2	Safety	1-2	3.5.3	Temperature Control	3-19
1.1.3	Statement of conformity	1-3	3.5.4	Cooking Guidelines	3-19
1.2	CARAVAN REGISTRATION AND IDENTIFICATION SCHEME (C.R.I.S)	1-4	3.5.5	Maintenance & Servicing	3-20
1.3	WARRANTY	1-5	3.6	Stainless Steel Sink	3-21
1.4	Retreat Leisure Home Warranty Cover	1-5	3.7	Taps	3-22
1.4.1	6 Year Body Shell Integrity Guarantee	1-5	3.7.1	Winterizing	3-22
1.4.2	Warranty Extension	1-5	3.8	REFRIGERATORS	3-23
1.4.3	3 Year Manufacturer's Warranty	1-6	3.9	DOMETIC REFRIGERATOR	
1.4.4	Warranty Extension	1-6		MODEL RM 8500 R/H	3-23
1.4.5	Customer Support	1-6	3.9.1	Cleaning	3-23
1.4.6	Terms and Conditions	1-7	3.9.2	Operating modes and use of the refrigerator	3-23
1.5	BODY CONSTRUCTION, INTERNAL FITTINGS AND SOFT FURNISHINGS.	1-10	3.9.3	Control elements of energy selections (BATTERY IGNITER, MES and AES)	3-23
1.6	Country and Coastal Code	1-11	3.9.4	Electrical operation	3-24
2.1	CONNECTION OF SERVICES	2-1	3.9.5	Gas operation (liquid gas)	3-24
2.1.1	Water System	2-1	3.9.6	Door locking	3-25
2.1.2	Fresh water tank	2-1	3.9.7	Removable freezer compartment	3-26
2.1.3	Operating Instructions Whale Tankfill System	2-1	3.9.8	Positioning the storage racks	3-26
2.1.4	Filling the onboard tank	2-1	3.9.9	Exchange of the igniter's battery	3-27
2.1.5	Using the Whale Smartflo Pressure Pump	2-3	3.9.10	Shutting off the refrigerator	3-27
2.1.6	Cleaning the Universal Filter	2-3	3.9.11	Lighting	3-27
2.1.7	Draining and Winterising the water system	2-4	3.9.12	Storing food and making ice cubes	3-28
2.2	THE GAS SYSTEM	2-5	3.9.13	Storing food in the cooling compartment	3-28
2.2.1	General information	2-5	3.9.14	Storing food in the freezer compartment	3-28
2.2.2	Changing Gas Cylinders	2-6	3.9.15	Making ice cubes	3-28
2.2.3	Gas safety advice	2-6	3.9.16	Defrosting	3-29
2.2.4	Awning Space LPG Appliance Exhaust	2-6	3.9.17	Winter operation	3-29
2.2.5	Gas Leaks	2-6	3.9.18	Troubleshooting	3-30
2.2.6	Ventilation	2-7	3.9.20	Maintenance	3-31
2.2.8	Gas BBQ point	2-7	3.10	Thetford Cassette C262 CWE Toilet	3-32
2.3	THE ELECTRICAL SYSTEM – 230 VOLT	2-8	3.10.1	Introduction	3-32
2.3.1	On arrival at caravan site	2-8	3.10.2	Preparing for use (standard)	3-33
2.3.2	On leaving site	2-9	3.10.3	Using the toilet (standard)	3-34
2.3.3	Generators	2-9	3.10.4	Emptying	3-34
2.3.5	Mains unit	2-9	3.10.5	Emptying with Optional Features	3-35
2.4	THE ELECTRICAL SYSTEM – 12 VOLT	2-11	3.10.6	Cleaning and Maintenance	3-35
2.4.1	12-volt Control Panel	2-11	3.10.7	Waste Holding Tank	3-35
2.4.2	Mains inlet	2-12	3.10.8	Winter operation	3-36
3.1	ALDE WATER HEATING SYSTEM	3-1	3.11	STATUS 530 DIRECTIONAL TELEVISION & FM RADIO ANTENNA	3-37
3.1.1	Boiler Design	3-1	3.11.1	Operating the System	3-37
3.1.2	Description of Functions	3-1	3.11.2	VHF Television Reception (Overseas Only)	3-38
3.1.3	The Domestic Hot Water Heater	3-2	3.11.3	Fault Finding	3-38
3.1.4	The Heating Cartridges	3-2	3.12	Baumatic Microwave	3-39
3.1.5	The Circulation Pump	3-2	3.12.1	General Information	3-39
3.1.6	System Temperature	3-3	3.12.2	Warning and safety instructions	3-40
3.1.7	Air Circulation	3-3	3.12.3	Child Safety	3-40
3.1.8	Maintaining the Heating system	3-3	3.12.4	General Safety	3-40
3.1.9	Filling the System With Glycol Fluid	3-4	3.12.5	Cleaning	3-40
3.1.10	Bleeding the System	3-4	3.12.6	The turntable	3-41
3.1.11	Fault Finding	3-5	3.12.7	LED display	3-41
3.1.12	Control Panel - Functions and Symbols	3-6	3.12.8	Setting the clock	3-42
3.1.13	Electrical operating instructions (230v)	3-14	3.12.9	Before first use	3-42
3.1.14	General Safety Notes:	3-14	3.12.10	Cooking food	3-43
3.2	INTERIOR PRODUCTS	3-15	3.12.11	Quick start	3-43
3.3	The Thetford Cooking Appliances	3-15	3.12.12	Microwave power level chart	3-44
3.4	THE LINEAR HOB	3-15	3.12.13	Time setting chart	3-44
3.4.1	Hotplate Burners	3-15	3.12.14	Interrupting a cooking cycle	3-44
3.5.2	ELECTRIC HOTPLATE	3-16	3.12.15	Cancelling a cooking cycle	3-44
3.5	THE MIDI OVEN & GRILL	3-17	3.12.16	Enquiry mode	3-45
3.5.1	Grill	3-17	3.12.17	Defrost by time	3-45
			3.12.18	Defrost by weight	3-45

3.12.19	Setting multiple cooking phases	3-45	4.9.4	FAULT - Water flows from hot tap but has reduced flow from cold	4-14
3.12.20	Setting a cooking time in advance	3-46	4.9.5	FAULT - Reduced flow from both hot and cold taps	4-14
3.12.21	Auto menu function	3-46	4.9.6	FAULT - Reduced flow from either taps	4-14
3.12.22	Auto menu chart	3-47	4.9.7	FAULT - Water Heater pressure relief valve venting water	4-14
3.12.23	Safety lock	3-47	4.9.8	FAULT - Water heater difficult to drain	4-15
3.12.24	Microwave cooking guidelines	3-48	4.10	USEFUL TELEPHONE NUMBERS' AND E MAIL ADDRESS'S	4-16
3.12.25	Materials you can use in a microwave oven	3-49			
3.12.26	Materials not to be placed in a microwave oven	3-50			
3.12.27	The appliance exterior	3-50			
3.12.28	The appliance interior	3-50			
3.12.29	Turntable and turntable support	3-50			
3.12.30	General cleaning advice	3-51			
3.12.31	Troubleshooting	3-51			
4.1	GENERAL MAINTENANCE	4-1			
4.1.2	Acrylic Windows	4-1			
4.1.3	Window Catches and Stays	4-1			
4.1.4	Interior walls	4-1			
4.1.5	Furniture	4-2			
4.1.6	Mattresses	4-2			
4.1.7	Care of your upholstery	4-2			
4.1.8	Curtains	4-2			
4.1.9	Hinges and Catches	4-3			
4.1.10	Bathroom	4-3			
4.1.10	Shower/Vanity Units	4-3			
4.1.11	Guidance on Cleaning Portable Water Tanks and the Water System and in Leisure Homes	4-3			
4.1.12	For Containers	4-3			
4.1.13	For Systems	4-4			
4.1.14	Leisure Home Keys	4-4			
4.1.15	Window Blinds (Remibase plus)	4-4			
4.1.16	Room Divider	4-4			
4.1.17	Tecnoform Doors and worktops	4-5			
4.1.18	JVC Speakers	4-5			
4.1.19	Carpet	4-5			
4.2	FIRE AND SAFETY PRECAUTIONS	4-6			
4.2.1	Children	4-6			
4.2.2	Fire Extinguishers	4-6			
4.2.3	In Case of Fire	4-6			
4.2.4	Smoke Alarms	4-6			
4.2.5	Ventilation	4-6			
4.2.7	Original Equipment Appliances	4-7			
4.2.8	Portable Appliances	4-7			
4.2.9	Modifications	4-7			
4.3	BED ASSEMBLY	4-8			
4.3.1	Side Dinette bed – Assembling the Double Bed	4-8			
4.3.2	Side Dinette bed – Assembling the Bunk	4-9			
4.3.3	Front Lounge Bed assembly	4-10			
4.4	Winterisation /Storage	4-11			
4.5	Modifications: DIY work	4-11			
4.6	Condensation	4-11			
4.7	Preparing your vehicle for cold conditions	4-12			
4.8	Spares and After-Sales	4-12			
4.9	WATER SYSTEM - FAULT FINDING	4-13			
4.9.1	FAULT - Water not flowing from any tap when operated but pump runs	4-13			
4.9.2	FAULT - Pump does not run	4-13			
4.9.3	FAULT - Water flows from cold tap but has reduced flow from hot	4-13			

1.1 INTRODUCTION

Welcome,

Congratulations on the purchase of your Bailey Leisure Home. We would like to welcome you into the ranks of Bailey Owners. We are confident that this home from home will give you many years of enjoyment.

This handbook has been designed to enable you to derive the maximum benefits and pleasure from your Leisure Home, its information and hints will be beneficial and help to protect your investment whether you are a new or experienced user.

Information leaflets and literature on safe operation of appliances and equipment fitted to your Leisure Home are included in the Bailey Information pack. Please read these carefully prior to use.

Failure to observe recommendations or precautions could result in incorrect operation of equipment which could in turn lead to subsequent risk to occupants.

The information contained within this handbook will answer most of your questions. However, if there are any areas that we have failed to cover please do not hesitate to consult your supplying retailer. Supplementary user guides for certain components featured in this manual can be found in the brochure and handbook section of the company website at www.bailey-caravans.co.uk.

Always consult your supplying retailer before additional equipment is fitted to ensure the location of appropriate structural support.

Retailers are not agents of Bailey and have absolutely no authority to bind Bailey by any express or implied undertaking or representation.

Happy Touring!



- ▲ To enable Bailey and our Retailer partners to deal with your queries efficiently, always quote your Retreats production number which can be found in the gas bottle compartment or on the Bailey Weight Plate as per **Image 01**.

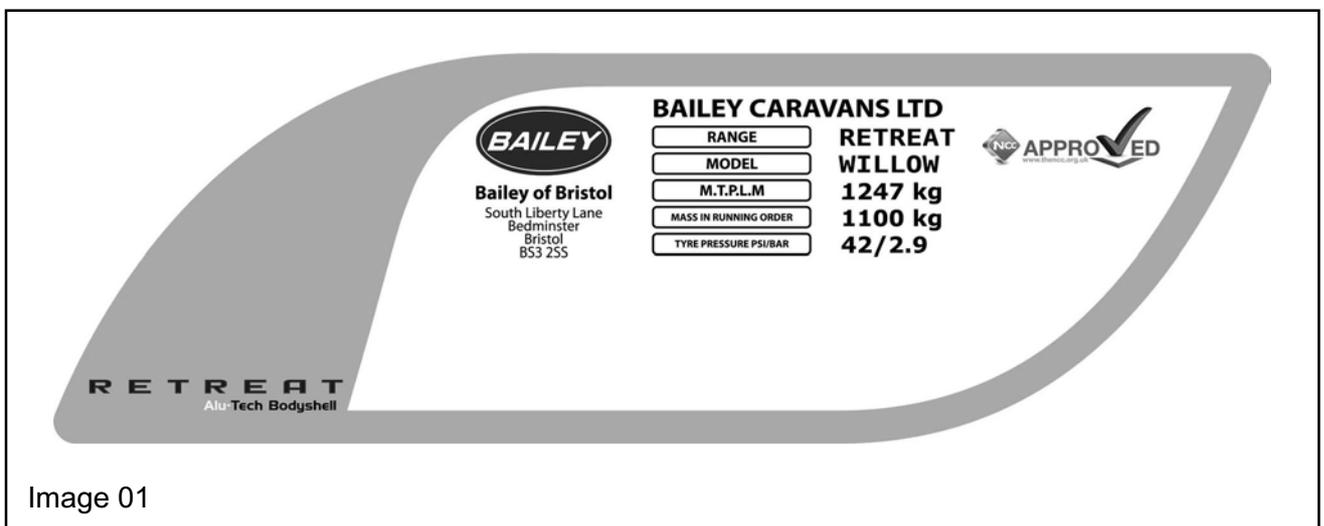


Image 01

It is Bailey policy to constantly improve their vehicles, so whilst all illustrations and descriptive matter in this handbook are intended to give a general idea of the Leisure Home and are correct at the time of going to press, changing market and supply situations may prevent them from maintaining the exact specification details of this handbook. Bailey therefore reserve the right to alter the specification at any time without prior notice.

“Bailey Caravans offer a variety of customer uses and whilst each vehicle is designed to feature the optimum storage, seating, sleeping and fluid capacities, it is the customer’s responsibility to select the correct loads and loading of the vehicle. The Retreat range of Leisure Homes can only be relocated with e DVLA approved vehicle.”

1.1.2 SAFETY

This handbook contains the information that you will require for your safe enjoyment of your Leisure Home. All the information contained herein is important. However, to draw your attention to specific items we have prefixed them with the following symbols to indicate a warning, caution or note respectively.

Warnings  are items that if ignored can cause the user(s) physical harm.

Cautions  are items that if ignored can result in damage to the caravan.

Notes  are reminders that should be heeded.

-  ▲ To ensure all the occupants of your Leisure Home enjoy a safe and relaxed environment please observe the following
- ▲ Ensure all occupants are aware of their escape routes in an emergency
 - ▲ Always keep escape routes and exit points clear from obstruction and debris
 - ▲ Provide one dry powder fire extinguisher of an approved type or complying with ISO 7165 of at least 1Kg capacity by the main door, and a fire blanket within easy reach of the cooker.
 - ▲ Ensure the Leisure Home is serviced and maintained in accordance with this handbook. The recommendation of manufacturers regarding their appliances must also be followed. Also, ensure that any replacement parts for an appliance conform to the appliance manufacturer’s specifications and should be fitted by them or an authorised agent.
 - ▲ Your Leisure Home is a compact living environment and appliances should be treated in the same way as those in the home to prevent accidental burning and scalding. Keep young children away from hot surfaces.
 - ▲ Always insure that your Leisure Home is moved by a qualified and fully insured driver.
 - ▲ Your Leisure Home is supplied with a EN1645 approved step. Always take care when entering or exiting your home, ensure that the step is securely located and safe before use. Do not use a damaged or broken step.
 - ▲ Never attempt to lift the tow hitch with your hands. Always raise or lower the tow hitch by winding the handle on the jockey wheel.

1.1.3 STATEMENT OF CONFORMITY



All Bailey Leisure Homes have been certified by the National Caravan Council for compliance with UK and European Standards and Legislation along with industry Codes of Practice relating to health and safety issues. The approval process covers the testing and inspection of critical areas of the product from fire safety, weights and dimensions, to gas, electrics and ventilation. Every Bailey product carries the “NCC Approved Motor Caravan” badge. The NCC conducts unannounced inspections at their members’ factories to ensure continued compliance.

NCC Approval gives you peace of mind that your Leisure Home is legal and safe.

Your Bailey Leisure Home is European Whole Vehicle Type Approved.

This assures you that your caravan meets all European regulations and has been constructed to conform to these rigorous standards for both manufacturing and product safety. This allows you to register your vehicle in another European country. Your certificate of conformity is in the document pack provided with your vehicle.



- ▲ Model: This handbook covers all of the Retreat models built on an AL-KO chassis.
- ▲ Gas System: This system is for use on vehicles with a 30mb gas system. The gas system pressure is noted on a label inside the gas locker.
- ▲ Build Type: Your Leisure Home is made with insulated laminated panels with a GRP outer skin.
- ▲ Climatic Conditions: Retreat Leisure Homes are designed for use in all temperature climates and is fully winterised to Grade 3 in accordance with EN1645-1:2004.
- ▲ Handbook: Any queries should be addressed to your Bailey Retailer.
- ▲ Appliance Instructions: The appliance instructions have been extracted from those supplied by the appliance manufacturer.

1.2 CARAVAN REGISTRATION AND IDENTIFICATION SCHEME (C.R.I.S)

This Leisure Home has been security marked and recorded under the Caravan Registration and Identification Scheme that is organised by the Caravan Industry.

Shortly after purchasing the Leisure Home you should receive your Touring Caravan Registration Document. It will be sent by post to your home address.

Your Touring Caravan Registration Document will include a 17 character V.I.N (Vehicle Identification Number) shown in the top right hand corner. This 17 character V.I.N will be die stamped into the Leisure Home Drawbar and chemically etched on up to a maximum of 10 eye level windows.

To protect yourself and your Leisure Home, never leave the Registration Document in the Leisure Home. For security reasons keep it in a safe place.

If you sell your Leisure Home please follow the instructions on the Touring Caravan Registration Document.

If you do not receive a Touring Caravan Registration Document, lose it, or any of the details are incorrect, please contact:

CRIS
Dolphin House
New Street
Salisbury
Wiltshire SP1 2TB
Tel: 01722 411430

1.3 WARRANTY

If you have a problem, or enquiry relating to your Leisure Home please follow these steps:

- Check the handbooks.
- Contact your supplying retailer for assistance.
- The following suppliers provide a direct aftersales service please contact them directly:

AL-KO
Al-KO Kober Limited
South Warwickshire Business Park
Kineton Road
Southam
Warwickshire
CV47 0AL
Fax: 01926 818562
Email: mail@al-ko.co.uk

DOMETIC
Dometic UK Ltd
Dometic House
The Brewery
Blandford St Mary
Dorset DT11 9LS
Telephone: 0844 626 0130
Email: technical@dometic.co.uk

It is with the retailer that the purchaser's Contract of Sale exists and consequently Bailey Caravans cannot enter into any discussions with the purchaser.



- ▲ Whilst every effort is made within this handbook to accurately reflect and describe our home market Leisure Homes (those purchased and stored on the mainland) our policy of continued improvements and change in market and supply conditions mean that we reserve the right to alter specification without further notice. Some materials used in the production of our Leisure Homes can result in variations to the figures quoted in respect of measurements and weights.

1.4 RETREAT LEISURE HOME WARRANTY COVER

Total customer satisfaction is top priority at Bailey and the quality ethos extends to the after sales service and market leading manufacturer's warranty package that comes with every new Bailey Retreat Leisure Home. In this way we not only ensure long-term peace of mind but also enhance the re-sale value of your investment.

1.4.1 6 YEAR BODY SHELL INTEGRITY GUARANTEE

The Bailey Alu-Tech Retreat Leisure Home is covered by a six (6) year Bodyshell Integrity Guarantee from the initial date of purchase. This cover extends to any structural degradation to the bodyshell that arises as a result of water ingress through any permanently sealed seams or joints (with the exception of exclusions stated in the terms and conditions.)

1.4.2 WARRANTY EXTENSION

An additional four (4) year extension to the standard Bodyshell Integrity Warranty cover (making 10 years cover in total) is available as a cost option. Please ask your supplying Bailey Retailer for more information.

1.4.3 3 YEAR MANUFACTURER'S WARRANTY

For a period of twenty-four (24) months from the initial date of purchase Bailey of Bristol offer a comprehensive warranty on all parts and components as well as full coverage for any manufacturing faults forming part of the original specification of the vehicle. The manufacturer's warranty then extends to an additional twelve (12) months on the following items

Chassis: all chassis members including corner steadies

Suspension: axle suspension and braking system (excluding any damage to or faults in brake drums and shoes that are caused through misuse of the braking system or from normal wear and tear)

Running Gear: road wheels (excluding tyres)

Towing Mechanism: all mechanical components fitted to vehicle (excluding electrics)

Cooker: the cooker unit including burners, grill, oven, hot plate, flame failure device and igniter

Refrigerator: door seal condenser, gas control valve, gas igniter, flame failure device, 230v heater elements, gas thermostat, thermostat and temperature control switch

Water System: water heater (gas or electric), fresh water tank, water pump, water gauges, taps and shower head

Electrical System: mains hook up input connector, ELCB, and interior lighting units (excluding bulbs and Light emitting diodes)

Cassette Toilet: the cassette toilet is covered (excluding seals, valves and glands)

Heating System: thermostat, motor, switches, control unit, gas heater, flame failure device and igniter (excluding ducting and fittings)

Windows: the functionality of the opening and closing system (stays, handles and catches) and a warranty against the cracking of the acrylic

Upholstery: zips, seams and colour fastness

1.4.4 WARRANTY EXTENSION

An additional three (3) year extension to the standard Manufacturer's Warranty cover for mechanical and electrical components of a leisure vehicle both external and internal (making 6 years cover in total) is available as a cost option. Please ask your supplying Bailey Retailer for more information.

1.4.5 CUSTOMER SUPPORT

In the unusual event of something going wrong your first contact should always be your supplying retailer. Approved Bailey Retailers enjoy industry-leading after sales support service from the manufacturer and they should be able to offer all the help you need to rectify any problems that may exist.

1.4.6 TERMS AND CONDITIONS

The Bailey Warranty Cover set out above is offered subject to the following simple terms and conditions:

Cover

1. During the term of the Warranty Cover, subject to these terms and conditions, Bailey will, through an Authorised Service Centre, at its option repair or replace all parts and components of the Retreat Leisure Home that are included in the Warranty Cover and which suffer a defect in manufacture or workmanship. An Authorised Service Centre means either Bailey itself, a Bailey Approved Retailer or a Bailey Approved Service Centre. Any part which is replaced becomes the property of Bailey. Any replacement parts are covered for the unexpired term of the Warranty Cover.

Term

2. The initial duration of the Bodysell Integrity Guarantee is six (6) years and the duration of the Manufacturer's Warranty is three (3) years in both cases starting from the original purchase date of the vehicle. It is a condition of the warranty that an annual service is performed on the vehicle in accordance with the service plan. Failure to comply with this term will invalidate the warranty.

3. The unexpired term of the Warranty Cover on your vehicle may only be assigned, transferred or novated to subsequent owners with Bailey's consent (not to be unreasonably withheld) and on payment to Bailey of a transfer fee of £35. Transfer can only be made within the first three months (3) of subsequent ownership and full documentary evidence that the vehicle has been serviced annually must be provided at the time of assignment in accordance with the terms and conditions detailed above.

Repairs

4. The Retreat Leisure Home must undergo a full annual service and inspection, including a moisture survey, carried out, subject to paragraph 5 below, by an Authorised Service Centre. The final annual service in the warranty period must be carried out before the end of that warranty period, but all other annual services may be carried out within six (6) weeks either side of each anniversary of the original purchase date. The original VAT invoices must be retained as proof that these annual inspections have been carried out.

5. Any servicing or warranty work to your Bailey Retreat Leisure Home is subject to a call out charge, which can be pre-determined with your supplying retailer.

6. Any servicing or warranty work must be carried out at a registered campsite.

7. During the first three (3) years of the Warranty Cover, all annual inspections and repairs must be carried out either by Bailey itself or an approved Bailey Service Centre or Agent. Thereafter, due to the technical nature of an Alu-Tech constructed caravan, annual inspections and repairs may be carried out by any workshop or repair centre approved by the National Caravan Council that has attended Alu-Tech training courses at the Bailey factory.

8. Where an annual inspection identifies that repairs to the vehicle are necessary, the Retreat Leisure Home must be made available for repair within six (6) weeks of the date of inspection for the purpose of carrying out the repair work.

9. No repairs, including the fitting of any replacement unit, may be undertaken or commenced under the terms of the Warranty Cover unless prior written authorisation is obtained from Bailey via an authorised Bailey Retailer or Service Centre. No liability will exist with regard to any warranty claims not authorised in this way.

10. Bailey reserve the right to examine the vehicle before any repairs commence or any replacement part is fitted.



Registration & Use

11. The Warranty Registration Form must have been sent to Bailey within six (6) weeks of the original purchase date. It is the responsibility of the Bailey Retailer to forward this information to Bailey. This is part of the terms of trading that the Bailey Retailer has with Bailey.

12. The Retreat Leisure Home shall:

(a) only be used for its ordinary and intended purpose and shall not be subjected to any treatment or conditions which could reasonably be foreseen to cause or result in damage to the vehicle or excessive wear and tear;

(b) only be towed by a commercial vehicle weighing over 3500kg and with a tachograph fitted.

(c) not be put out to hire, reward or any other commercial use, nor used in any race, competitions or rallies whether timed, official or otherwise.

(d) Only be sited on a registered campsite.

Exclusions & Liability

13. Bailey's liability under this warranty shall be limited to supplying the reasonable costs of labour and materials required for the repair or replacement of faulty parts or components. Bailey shall be entitled to charge for any repair work which is necessitated by virtue of any loss or damage caused by your negligence or default or incurred as a result of any modifications you have made to the vehicle. This warranty does not cover repair costs other than labour and materials.

14. The Warranty Cover does not include:

(a) repair or replacement of parts, components, seams or panels which are not part of the original construction of the Retreat Leisure Home, or which have been tampered with or undergone unauthorised modifications, or which have been repaired otherwise than by an Authorised Service Centre;

(b) parts or components other than those specifically listed in the Bodysell Integrity Guarantee and Manufacturer's Warranty descriptions set out above;

(c) general maintenance or components failing due to fair wear and tear or normal deterioration;

(d) repairs necessitated by lack of routine or regular maintenance. Particular attention is drawn to the Owner's Manual and Service Handbook supplied with the caravan and any maintenance instructions or notices published from time to time by Bailey relating to the proper care and maintenance of vehicles; or

(e) structural degradation or other damage caused by water ingress through non-permanently sealed seams or joints (such as, without limitation, around windows, hatches, doors and rooflights), beyond the initial 24 months of the Manufacturer's Warranty.

15. No liability will be accepted for:

- (a) damage caused by neglect or abuse, corrosion, intrusion of foreign or deleterious substances, lack of servicing, over-heating, freezing, or the continued use of the vehicle after a fault has become evident;
- (b) any loss or damage caused by parts not covered by this Warranty Cover, including soft furnishings or trim;
- (c) any accidental or fire damage or any losses incurred by accident or fire; or
- (d) transport costs to and from point of repair.
- (e) damage caused through transportation with an incorrect vehicle.

16. Bailey will only be liable for costs which are incurred as a direct consequence of the event, defect or fault leading to the claim being made under this warranty. No liability will be accepted for any other loss or damage (such as loss of income or revenue, or loss of business or profits), costs, expenses or other claims for compensation howsoever arising which was not reasonably foreseeable by both parties when the caravan was originally purchased. Bailey will not be liable for any loss or damage suffered by third parties, nor for bodily injury not caused by our negligence.

17. Nothing in this warranty shall limit in any way our liability: for death or personal injury caused by our negligence; for fraud or fraudulent misrepresentation; or for any matter for which it would be illegal for us to exclude, or attempt to exclude, our liability.

18. The purchaser has statutory rights in addition to this warranty and this warranty does not affect those statutory rights.

19. This warranty shall be governed by and construed in accordance with the laws of England and the parties irrevocably submit to the non-exclusive jurisdiction of the courts of England.

The name and address of the warranty and guarantee provider is:

Bailey Caravans Limited, South Liberty Lane, Bristol, BS3 2SS

1.5 BODY CONSTRUCTION, INTERNAL FITTINGS AND SOFT FURNISHINGS.

Exterior Side Walls:	Gel Coat GRP in Ral 9001
Interior Side Walls:	GRP in Ral 9001
Floor Vinyl:	3mm thick in Chene Woodblock
Furniture:	Walnut
Curtains:	Bailey Sherwood in Karma 9487 Col 502C 3004
Tiebacks:	In Striped Koquette Des 8519 Col. 21301FR
Cushions and Upholstery:	Bailey Sherwood Stratty 15764 Col. 19918-47FR (pattern) Peru 14453 Col. 19926-32/140FR (plain) Festival Leatherette 87046 Toffee FR
Scatters:	Bailey Sherwood - Savoy Col. 20 Striped Koquette Des 8519 Col. 21301FR
Exterior Graphics:	Autumn Gold/ Green and Orange

1.6 COUNTRY AND COASTAL CODE

Upon arrival at your destination you should be aware of the Country Code.

Code of Conduct - Camp sites
Check the site regulations

Arrivals

- Report to reception immediately on arrival

Vehicle Movement

- Keep to roadways unless otherwise directed
- Adhere to speed limits. Note that these are generally 10 mph whilst on site. (Remember that the stopping distance on grass is considerably greater than on tarmac.)
- Only a person in possession of a current driving licence may drive on site.
- Park as advised on your pitch. Where possible leave 6 meters (20ft) of free space around your vehicle.

Use of Site:

- Use the electrical mains hook-up in the correct manner and with caution.
- Ensure that all fresh water taps/ connections are turned off after use.
- Have care and consideration when using all facilities (toilets and showers etc) and leave them clean and tidy. Young children should be escorted.



- ▲ To avoid possible damage to sewage purification works, only approved chemical fluids must be used. Under no circumstances may coal tar, phenol or caustic based fluids be used. Disposable napkins and similar bulky items must not be put into the chemical closet emptying points but should be wrapped in a polythene bag and placed in the container provided. (Put all litter in containers marked for the purpose.)

Noise

- Do not make excessive noise.
- Children should be restrained from making excessive noise.
- Flying kites and model aircraft and the use of items like catapults or air guns as well as ball games should not be permitted among, or close to caravans.
- Musical instruments, music players, radios and televisions should not be used to the inconvenience of other people on site
- Open and close doors quietly
- Power generators must be adequately silenced and used with consideration and according to restricted site times

Dogs and Pets

- All dogs and other pets should be kept under control
- Unless permission has been granted, no animal should be let loose on the site and leads should not exceed 3 meters (10 ft)
- No animal should be allowed in the shower/ toilet block.
- Do not let animals foul the site.



▲ Fire Precautions

Adhere to and make note of all fire precautions including the whereabouts of the fire points.

It is recommended that a 1 Kg (2lb) dry powder fire extinguisher is carried. It should comply with BS 5423 and be marked BSI or FOC approved. It is important to check at regular intervals that the extinguisher is working as is required by types meeting BS 5423. Make sure that the use by date is frequently checked.

Careful thought is necessary for the positioning of a fire extinguisher, which should be near to the door but not too close to the cooking equipment where sudden flames could make it unreachable. In the kitchen area, a fire blanket is a worthwhile precaution.

Unless permission has been granted barbecues should not be used. When permission has been given, consideration should be given to the annoyance that can be caused to other users of the site. Open Fires are not allowed.

Awnings and tents

Awnings and tents should only be used when permission has been granted.

When on grass and staying for more than a few days, the ground sheet and/or side flaps of awnings should be periodically raised in order to avoid damage to the ground.

Departure:

- Leave the pitch clean and tidy
- On leaving check out with reception paying the required dues.

On no account should:

- Litter be disposed other than in the receptacles provided.
- Water be allowed to escape from the vehicle
- Chemical toilets be emptied except into the disposal places agreed with the landowner
- Washing or similar to be hung outside of the vehicle.

Handbook

Before using the Leisure Home, all aspects of the handbooks should be read and adhered to.

Environment

Care and consideration should be taken to protect the environment.

Observe the Country and Coastal Codes shown below.

The Country Code

Enjoy the countryside but respect its life and work.

More people than ever before are exploring the countryside, interested in farming, plant life, bird watching or just observing the general wildlife. Whatever your interest, there is a lot to learn, but please observe the following code.

Guard against all risk of fires. Hay and heath land catch alight easily and once ablaze are very hard to put out. Remember Fire spreads quickly.

- Keep to the public paths across farmland.
- Use gates and stiles to cross fences, hedges and walls.
- Leave livestock, crops and machinery alone. View from a distance.
- Take your litter home; - it is unsightly and harmful to wildlife.
- Help to keep all water clean.
- Take special care of country roads
- Make no unnecessary noise. Most Animals are timid; noises can disturb them unnecessarily. If you want to get the best out of the countryside, travel around as quiet as possible.

The Coastal Code

As our coastlines are increasingly used for recreation and education, the following suggestions are made to enable us to enjoy our inheritance and preserve it for posterity.

- Do not trample about, or move rocks unnecessarily.
- Do not frighten seals or sea birds.
- Do not spear fish
- Do not spill detergents, solvents or fuel from boats as these can kill marine life.
- When using a boat, moderate your speed- the wash from a fast boat can destroy both banks and nests.
- Live molluscs and crustaceans need not be collected as souvenirs - dead shells can usually be found.
- Shellfish can take years to grow and fines can be imposed for not observing national regulations.
- Do not pull up seaweed unnecessarily.
- Make your visit instructive not destructive.
- Look at material, don't remove it. Take notes and photographs, not specimens.
- Observe bye-laws and be considerate to others.
- National Trust property or Country Parks have regulations to protect the wildlife. Follow these.

Safety and Security

Important: your attention is drawn to the notice fixed in your Leisure Home advising on fire protection, ventilation and what to do in case of fire.

Children

Never leave children alone in the Leisure Home and keep potentially dangerous items out of reach as at home e.g. matches drugs etc.



- ▲ When upper bunks are used by children, especially those under the age of six, care should be taken to ensure against the risk of them falling out. These bunks are not suitable for the use of infants without adult supervision.

Fire Extinguishers

It is recommended that a 1 Kg (2.2lb) minimum capacity dry powder fire extinguisher be located near to the main habitation entrance door.

A pan fire 'should' not have a fire extinguisher aimed at it but be smothered with a fire blanket. This should be within easy reach of the hob but away from the source of flames.

In case of a fire

- Get everyone out of the Leisure Home as quickly as possible using whichever exit is nearest including windows. Do not stop to collect any personal items.
- Raise the alarm. Call the fire brigade
- Turn off gas cylinder valve if it is safe to do so.

Ventilation and Condensation



- ▲ The ventilation points on your Leisure Home are fixed points of ventilation which are specified by European Standards. Under no circumstances must these be blocked or obstructed. It is advised that fixed ventilation points and any protective screens are checked and cleaned (if necessary) on a regular basis.
- ▲ Fresh air circulation should be allowed below the Leisure Home 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 under-floor space should be kept clear and unobstructed including by snow. Do not make any additional openings in the floor.

Additional night time ventilation is obtained by releasing the window catches and placing them in the second groove on the frame catch.

2.1 CONNECTION OF SERVICES

Please read and become familiar with the operating instructions for the equipment within your Bailey Retreat Leisure Home.

Connections of services are dealt with under three separate headings, Water, Gas and Electricity.

2.1.1 Water System

The Bailey Retreat Leisure Home is fitted with a fresh water supply system and a waste water system. All water hose used in the system is WRAS approved non toxic food quality hose.

2.1.2 Fresh water tank

Your fresh water tank is positioned under the floor in front of axle. The drain from the waste water is on the offside of the vehicle near to the skirt. To drain the fresh water tank you will need to run all the water through the system. The tank has an inspection cap positioned on the top and accessed through a hatch in the floor of the vehicle.

The fresh water tank has a capacity of 40 litres.

Fill the tank through the exterior filler cap identified with a fresh water transfer.

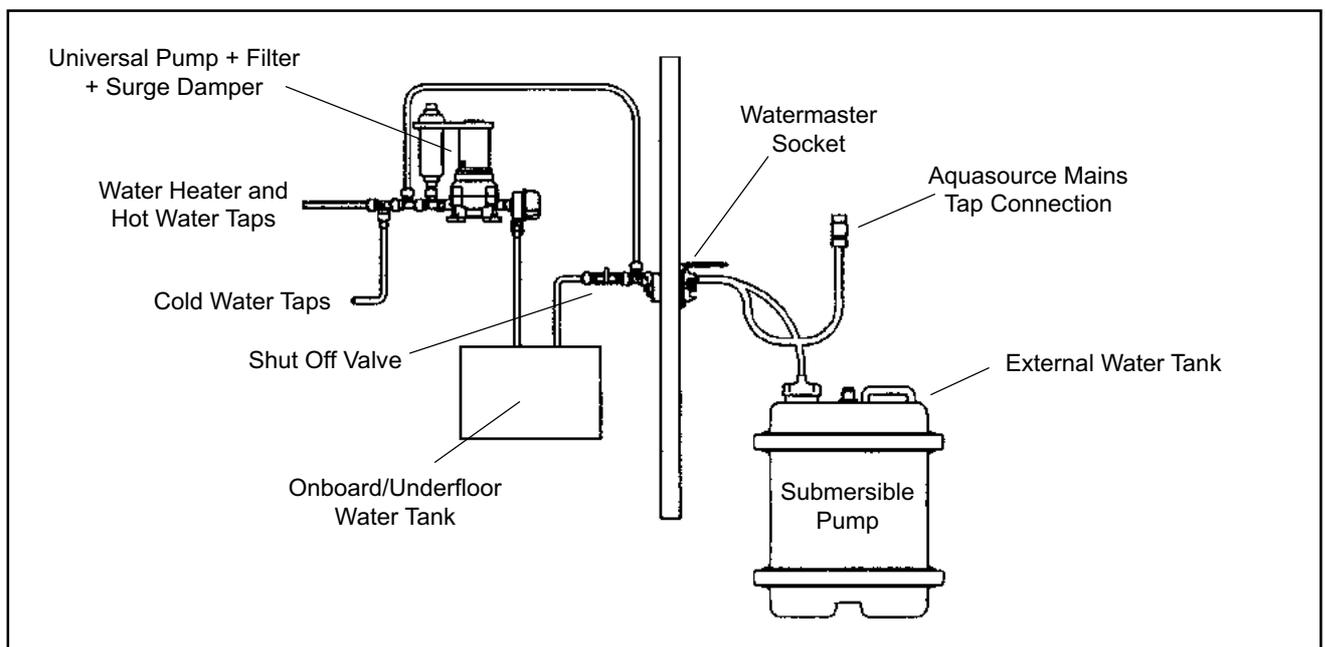
Fresh Water Pump

A Whale Smartflo onboard pump is fitted to your vehicle it will be fitted under the bunk on the offside of the vehicle.

2.1.3 Operating Instructions Whale Tankfill System

The onboard tank can either be filled using a Whale Submersible pump or a Whale Aquasource Mains Hook-up, the Whale Smartflo pump and the Whale Aquasource can be used to supply a pressurised water system to the taps and shower if required.

2.1.4 Filling the onboard tank



The on-board tank is filled in one of two ways either,

1. Using the Aquasource.

When a drinking water tap is available within approximately 7 meters of the vehicle.

Please Note: Please ensure when using Aquasource mains hook up that the Smartflo on board pump is switched off at the caravans main control panel.

- Lift the lid of the external Whale Watermaster socket.
- Insert the Whale Aquasource plug firmly into the socket, and close the lid down [approximately 90°] until it locates and locks the Whale Aquasource plug into place.
- Open the Shut Off Valve located at the rear of the Whale Watermaster socket.
- Connect the other end of the Whale Aquasource to the water tap, and turn it on, making sure there are no kinks in the pipe run.
- Turn off the tap when water flows from the overflow underneath, indicating that the onboard tank is full.

To remove the Whale Aquasource.

- Disconnect the Whale Aquasource from the tap.
- Lift the lid of the Whale Watermaster socket, to the vertical position.
- Depress the two white location buttons on the Whale Watermaster plug, and remove from the socket.
- Close the lid of the Whale Watermaster socket, until it is located into position.
- Stow away the Whale Aquasource in a clean chemical free area.

2. Using the Whale Submersible Pump.(Not Supplied)

When a drinking water tap is not at hand.

- Fill a suitable water container, and place below the Whale Watermaster socket.
- Place the Whale Submersible pump (not supplied Whale Part number EP1312 OR EP1612) into the water container; the pump should reach the bottom of the container.
- Lift the lid of the external Whale Watermaster socket.
- Insert the Whale Submersible pump plug firmly into the socket, and close the lid down [approximately 90°] until it locates and locks the Whale Submersible pump plug into place.
- OPEN the Shut Off Valve located at the rear of the Whale Watermaster socket.
- The pump will then start automatically to fill the onboard tank.
- When the tank is full, the pump will turn off

To remove the Whale submersible pump.

- Lift the lid of the Whale Watermaster socket, to the vertical position.
- Remove the Whale Submersible pump plug from the Whale Watermaster socket.
- Close the lid of the Whale Watermaster socket, until it is located into position.

Stow away the Whale Submersible pump in a clean chemical free area, shaking any loose water from the unit first.



- ▲ It should be noted that as the container volume is likely to be less than that of the onboard tank, it is advisable to remain in attendance, when filling the tank, as the life of the submersible pump will be drastically reduced if allowed to run dry.
- ▲ To continue the filling of the onboard tank should the water container volume be less than that of the onboard tank.
- ▲ Repeat the operations under the heading: **2. Using the Whale Submersible pump**, removing the pump from the Watermaster socket each time.

3. To use either the Whale Aquasource or the Submersible Pump without using the On-Board tank.

- Connect as above, but CLOSE the Shut-Off valve located at the rear of the Whale Watermaster socket

2.1.5 Using the Whale Smartflo Pressure Pump

The water system can be priming as follows, after the onboard water tank has been filled.

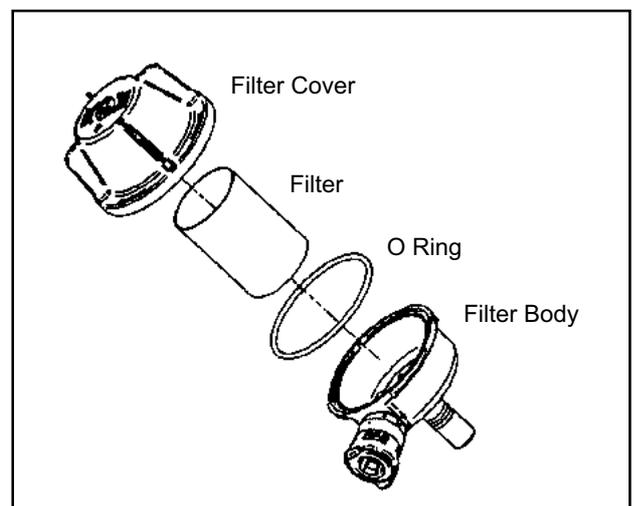
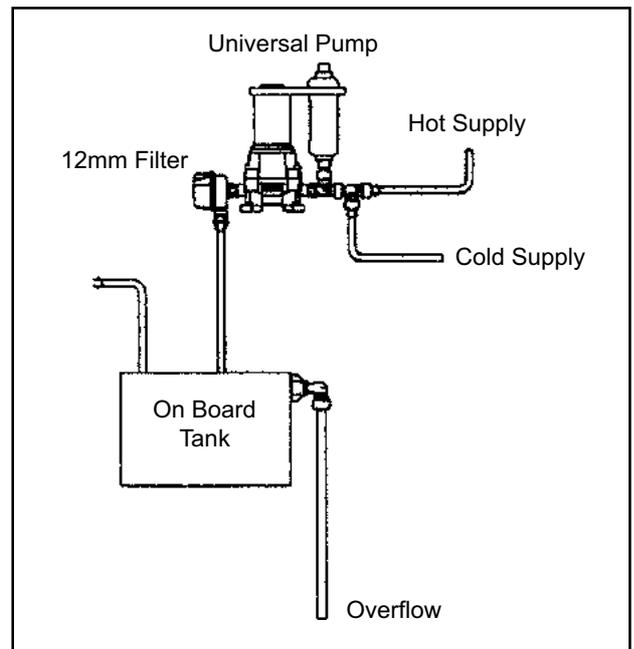
- Switch on the ancillary power supply to the pump at the main panel.
- Open one hot tap e.g. Kitchen sink.
- Water will flow from the open tap after filling the water heater. This could take a few minutes if the water heater was empty.
- When the water is flowing smoothly, close the hot tap and open the cold tap to expel any air left in the plumbing system, close this tap when the water runs smoothly.
- The system is now ready for use.

Hints.

1. Should the caravan be left unattended, or when the water supply has been allowed to empty, switch off the power supply to the pump, at the main panel, to avoid the pump running continuously.
2. Should the water flow from the taps be reduced at any time, check the filter at the side of the pump, and clean as necessary.

2.1.6 Cleaning the Universal Filter

- Switch off the power supply to the pump, and drain the water system.
- Following the arrows marked OPEN on the Filter Cover, unscrew the Filter Cover.



- Remove and clean the filter.
- Replace the filter.
- With the O-Ring in its groove, replace the Filter Cover, following the direction of the Close arrows on the Filter Cover, until fully seated.
- Under no circumstances should the Whale Universal pump be run without a filter on the suction side.

Routine Maintenance

- Ensure the water fill hose 'O' ring and socket are kept free from dirt
- Drain system thoroughly during the winter months
- Service the inlet annually
- Replace the water filter annually.
- The systems is pressure controlled to protect your motorhome from sustaining damage to your water system (plumbing connections should be checked at the beginning and end of every season for frost damage or loose connections)
- When you are using an Aquasource system it is important that you do not sleep or leave the vehicle unattended without turning the water source off at the mains.

2.1.7 Draining and Winterising the water system

The Bailey Retreat Leisure Home maybe in use all the year round, but when they are not in use, even for short periods, this procedure should be followed. One night in freezing temperatures is all that it is required for expensive, permanent damage to water system components.



- ▲ Ensuring that all water is removed from the Leisure Home's pipework, taps and appliances will reduce the risk of frost damage occurring. Frost damage can occur when water left in the system freezes and expands, causing pipework and appliances to split, crack or burst.

- Ideally position the Leisure Home so the drain valves are at the lowest point i.e. tilt the Leisure Home.
- Turn the pump off
- Open all taps/mixers in the mid position, including the external shower (if fitted).
- Remove shower handset (including the external shower, if fitted) and shake water out.
- Open water heater drain valve and leave open.
- Open on board tank drain valve (if present) and leave open).
- Where grey waste tanks are fitted, remove all sink plugs and open the drain tap.
- Open any other drain points (if present).
- External water components - shake water out of pump/AquaSource/Aquasmart filter assembly and store inside the Leisure Home.
- Internal pump - turn on and allow to run to expel additional water for 2 minutes.
- If internal pump is accessible disconnect outlet pipe and turn on pump to purge water into an adequate basin. Only reconnect pump when water system is to be used.

2.2 THE GAS SYSTEM

All gas appliances fitted to your Bailey Leisure Home are suitable for operation on both Butane and Propane without the need for adjustment.

2.2.1 General information

Gas Cylinders: Bottled Liquid Petroleum Gas (LPG) is the most convenient portable source of fuel for your Leisure Home.



- ▲ Never allow modifications of the electrical or Liquid Petroleum Gas systems and appliances except by qualified persons.
- ▲ Never use portable cooking or heating equipment, other than electric heaters that are not direct radiant type, as it is a fire and asphyxiation hazard.

Make sure that heating, cooking appliances and gas cylinders are switched off before the Leisure Home is moved.

All gas appliances in your Leisure Home can have their gas supply individually isolated by turning off the relevant tap. The tap is either located on the centrally positioned gas manifold or directly beside the appliance.

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.

The regulator is a governing device which adapts the bottle pressure to one that suits the equipment in the Leisure Home.

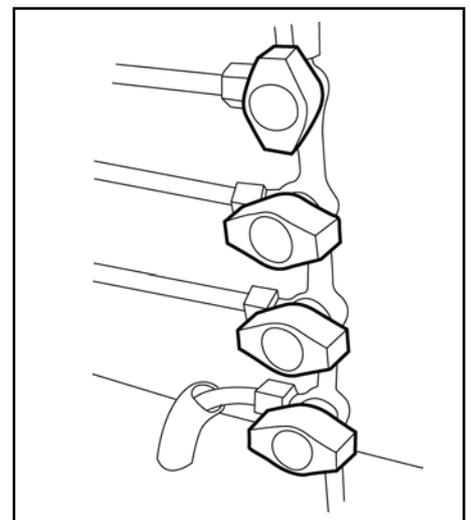


- ▲ Some industrial LPG appliances operate at high pressure and require a 'high pressure' regulator. This often has an adjusting handle on it. Never use such a regulator on a Leisure Home.

Propane and Butane gas regulators are not interchangeable.

- Always ensure that the gas system is inspected/maintained every 12 months.
- In the event of a fire ensure all occupants evacuate the Leisure Home via the nearest escape route.
- If it is safe to do so turn off the yellow isolating valve located in the gas box directly below the regulator.
- If you suspect a gas leak then immediately turn off the supply of gas at the yellow isolation tap located below the regulator in the gas box. Then turn off the gas valve on the gas bottles. When this has been completed the system must be inspected by a competent person.
- Never use gas bottles located outside the Leisure Home gas box. Do not use any gas extension hoses.
- Gas barbecue - always use gas appliances that are suitable for use at 30mbar.

Your Leisure Home is fitted with a regulator as standard equipment. This is located in the Leisure Home gas box mounted on the front bulkhead of the Leisure Home between the gas bottles. The gas regulator has a working pressure of 30mbar and is suitable for



both propane and butane liquefied petroleum gas. There are dedicated hoses available for different types of gas/bottle. They are also available for camping gas and other mainland Europe LPG Suppliers. Please contact your Retailer who will have a stock of these hoses.

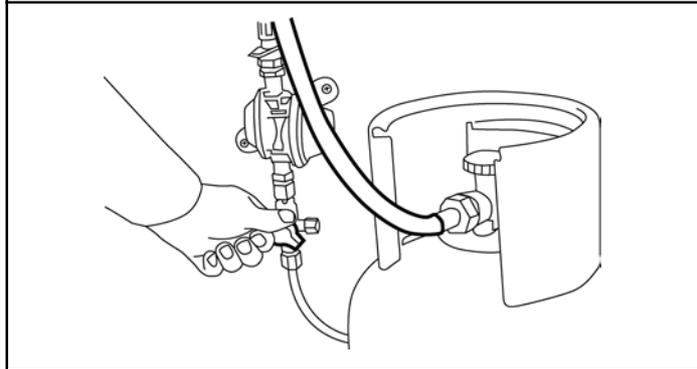
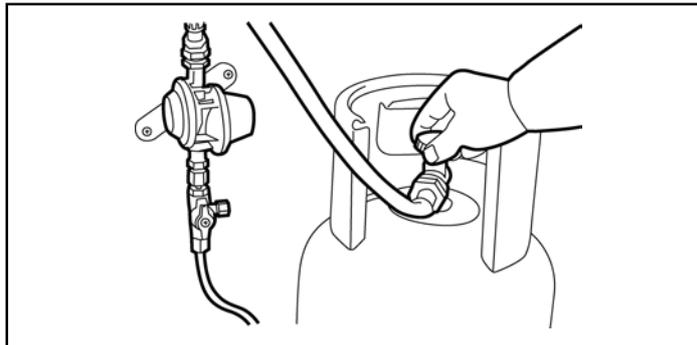
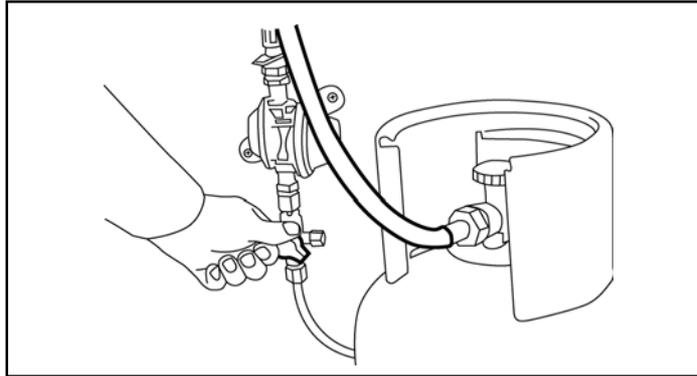
2.2.2 Changing Gas Cylinders

Ensure that the cylinder is empty, then:

- Turn off the tap located by the gas regulator.
- Turn off cylinder valve and all gas appliances
- Remove the gas hose regulator from the cylinder.
- Release retaining strap
- Remove cylinder from gas locker and stand on ground.
- Fit plastic protecting cap to cylinder

With the full cylinder:

- Before placing cylinder in the cradle ensure that the tray is clean and free from any debris. Cleaning should be carried out only with warm soapy water.
- Place cylinder in cradle in gas locker.
- Remove plastic protector from cylinder
- Connect the gas hose.
- Connect retaining strap
- Turn on cylinder valve and then systematically relight appliances as required



2.2.3 Gas safety advice

LPG is not poisonous.

There is a danger if all air and oxygen were excluded. (Ventilation holes must be kept clear at all times and must not be obstructed).

The manufacturers have given LPG a smell in order to identify leaks.

2.2.4 Awning Space LPG Appliance Exhaust

There is no danger of pollution within an enclosed awning space from the exhaust of an LPG burning refrigerator that vents into it.

2.2.5 Gas 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.

Butane/Propane gas is heavier than air, any escaping gas will therefore collect at a low level. The strong unpleasant smell of gas will enable the general area of the leak to be detected. Check that the gas is not escaping from an unlit appliance. Never check for leaks with a naked flame, leak investigation should be carried out using a leak detector spray or soapy solution.

Do not operate any electrical apparatus whatsoever, especially light switches.

If the leak is not obvious, the Leisure Home should be evacuated and a competent service engineer consulted.

Avoid naked lights when connecting or changing a cylinder. Ensure the gas valve is turned off.

Regularly inspect the flexible gas hoses for deterioration and renew as necessary with approved type (all hoses should be replaced before the expiry date marked on the hose or after a maximum of five years).

Remember the gas is heavier than air and therefore sinks to the lowest point.

Keep gas bottle containers outside (and protected against frost). If they must be kept inside make sure they are well away from heat.

2.2.6 Ventilation

All ventilation complies with EN 721 and vents should not be obstructed in any manner as this could lead to insufficient fresh air. In this case the confined atmosphere becomes depleted of oxygen which leads to the formation of the highly poisonous gas 'carbon monoxide'. Carbon Monoxide is odourless, colourless and tasteless and will rapidly cause unconsciousness and death with little or no warning prior to collapse.



- ▲ Under no circumstances should the Leisure Home's ventilation be blocked or obstructed in any way

High level ventilation is via the roof lights. The low level ventilation is via the vents in the floor at the front of the caravan living area directly behind the front bulkhead. With multiberth layouts the rear sleeping compartments have their own low level ventilation. Please consult your caravan retailer for its location.

The mesh screens fitted should be kept free of obstructions by dust, leaves, insects etc. Inspect regularly and use a brush and soapy water as necessary. It may be necessary to remove the weather shield located on the underside of the floor of the caravan to gain access for cleaning.

All roof-mounted flue installations should be inspected once a year throughout their length for corrosion. Flues should be replaced if any sign of perforation is found. Ensure that the replacement is of an approved type. Check that the external roof seal is seating correctly and the locknut is fully tightened.



- ▲ Do not make any additional openings in the floor.
- ▲ Never use portable cooking or heating equipment, other than electric heaters that are not of the direct radiant type in your Leisure Home, as it is a fire and asphyxiation hazard.

Appliances such as cookers with naked flames should never be used for room heating.



- ▲ No appliance shall be used inside when being connected to the external BBQ socket.
- ▲ It is recommended that any elevating roofs be raised when the leisure accommodation vehicle is used for habitation purposes.

2.2.8 Gas BBQ point



- ▲ The external gas BBQ point should be used as a connection outlet only and should not, as a matter of safety be used as a gas inlet.

2.3 THE ELECTRICAL SYSTEM – 230 VOLT

As in the home, care must be exercised when handling mains electricity.

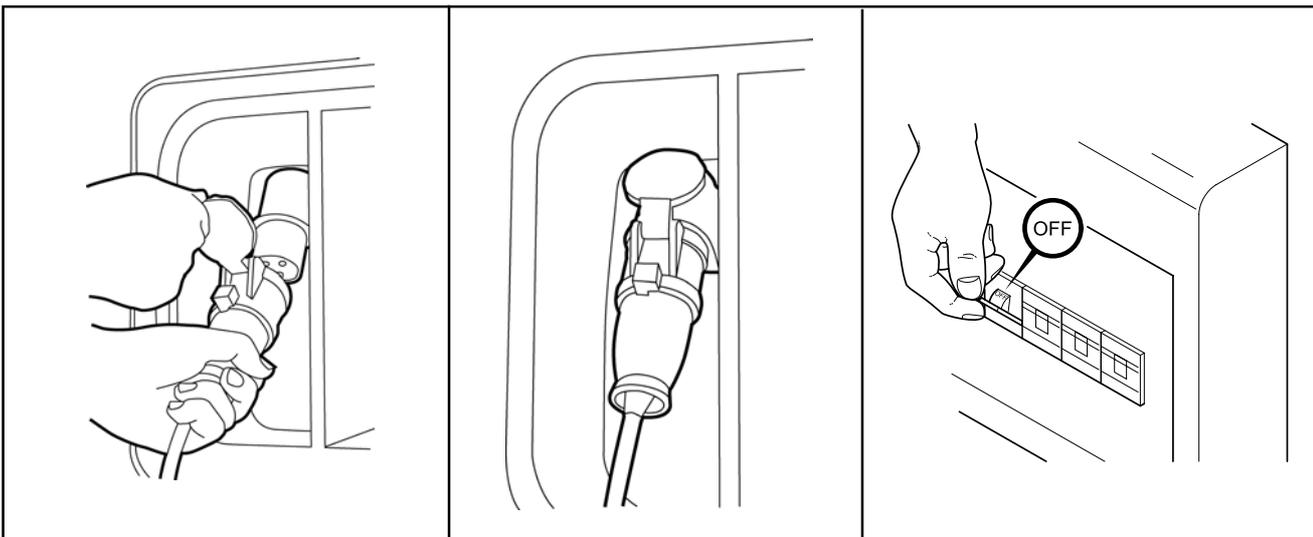
Your attention is drawn to the following notice as laid down by the Institute of Electrical Engineers.

Instructions for electricity supply - low voltage (230 v)

2.3.1 On arrival at caravan site



- ▲ Before connecting the Leisure Home installation to the main supply:
- ▲ Check that the mains supply is suitable for your installation and appliances, i.e. whether it is a.c. or d.c. and whether it is at the correct voltage, frequency and polarity.
- ▲ Check that your installations will be properly earthed. Never accept a supply from a socket outlet or plug having only two pins, or from a lighting outlet.
- ▲ Check that any residual current device (earth leakage circuit breaker) in the mains supply to the caravan has been tested within the last month. After connection to site supply, test again.
- Make sure that the switch at the site supply point is off.
- Make sure that the caravan RCD unit is switched off.
- Remove any cover from the electricity inlet provided on the caravan, and insert the connector of the supply flexible cable.
- Remove any cover from the socket outlet provided at the site supply point, and connect the plug at the other end of the supply flexible cable to this. Switch on the main switch at the site supply point.
- Switch on the Leisure Home RCD unit.

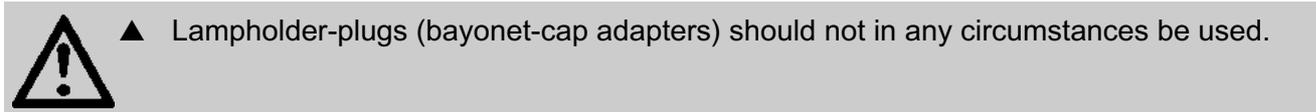


In case of doubt, consult the site owner or his agent.

2.3.2 On leaving site

- first switch off the site supply.
- switch off the Leisure Home RCD unit.
- then disconnect the pitch lead.

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.



- replace the cover of the socket outlet at the site supply point. It is dangerous to leave the supply socket or supply flexible cable live.

Every 12 months, the Leisure Home electrical installation should be inspected and tested and a report on its condition obtained as prescribed in the Regulations for Electrical Installations, published by the Institute of Electrical Engineers.

2.3.3 Generators

- Switch off all appliances, the miniature circuit breakers and the residual current device.
- Start the generator and allow to run for a few minutes to stabilise.
- Connect the Leisure Home to the generator.
- Switch on 16 amp miniature circuit breaker.
- Switch on the residual current device.
- Switch on the fridge (230 volt phase) or plug in a 230v light to one of the 13amp sockets. This is to provide a load on the generator and help remove any "spikes" in the supply which can damage the charger unit.
- Switch on the 5amp miniature circuit breaker and any other appliances you require.



- ▲ It is always advisable to have at least one other mains appliance switched on with the charger unit to minimise the chance of damage to it.



- ▲ Do not connect the 12 volt output of the generator to the battery terminals. The AC ripple must not exceed 10%.

2.3.5 Mains unit

The mains unit replaces the conventional fusebox. Similar, but larger units are often fitted in newer houses.

The unit gives overload and earth leakage protection for the 230v electrical supply in your Leisure Home.

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 M.C.B.'s (miniature circuit breakers).

These take the place of the conventional fuse but are more convenient.

In the event of a fault the M.C.B. 'trips' i.e. automatically moves to the OFF position.

After elimination of the fault the M.C.B. 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 is only re-settable after elimination of the fault.

To re-set, operate the switch as for M.C.B's.

Every time you connect to a site supply 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 reset restoring the supply back to normal.



- ▲ Having too many appliances switched on at the same time will trip the MCB. This is a safety measure.



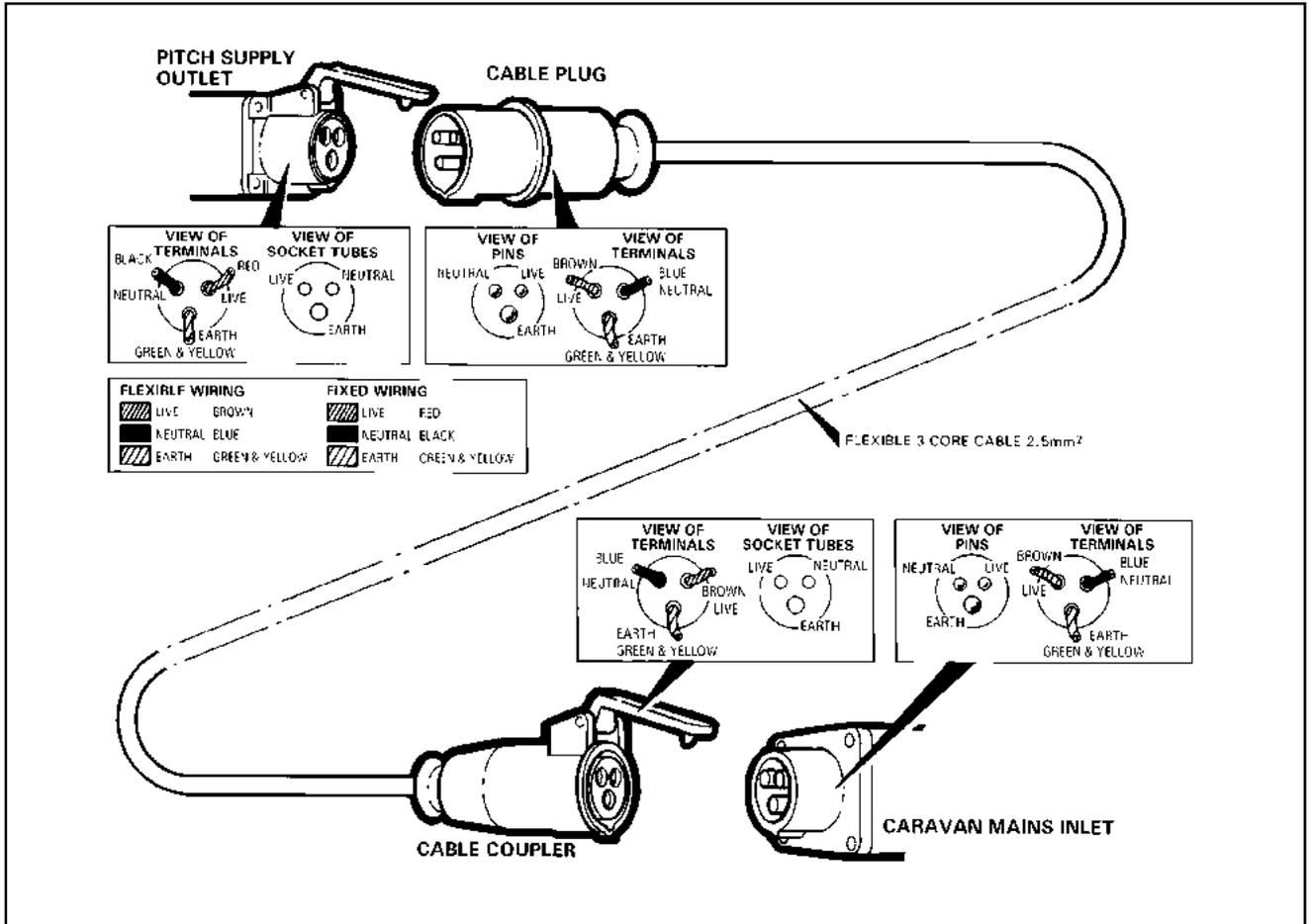
- ▲ It is essential that connections are made exactly as shown. If terminal markings are not in accordance with the diagram they must be ignored. If in doubt consult a qualified electrician.
- ▲ Always disconnect the electrical connector between the towing vehicle and the caravan before connecting a 230v supply to the caravan and before charging the caravan battery by any other means.

It is possible that all of the 230v mains electrical equipment may not be able to be operated simultaneously. A typical UK camp site mains hook up point provides a maximum output of 16 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 parks 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:

Fridge	0.5 amps	Colour TV	2.5 amps
Charger	1.0 amps	Microwave	10 amps
Water heater	5.7 amps	Air conditioning	4 amps
Hydronic heating system	13.4 amps		



2.4 THE ELECTRICAL SYSTEM – 12 VOLT

Your Leisure Home is fitted with a 12 volt charger as standard. This converts the 230 volt AC supply into 12 volt DC. This enables the 12 volt equipment in the caravan to function.

The 12 volt supply to the Leisure Home can be isolated via the 12 volt on/off switch on the control panel.

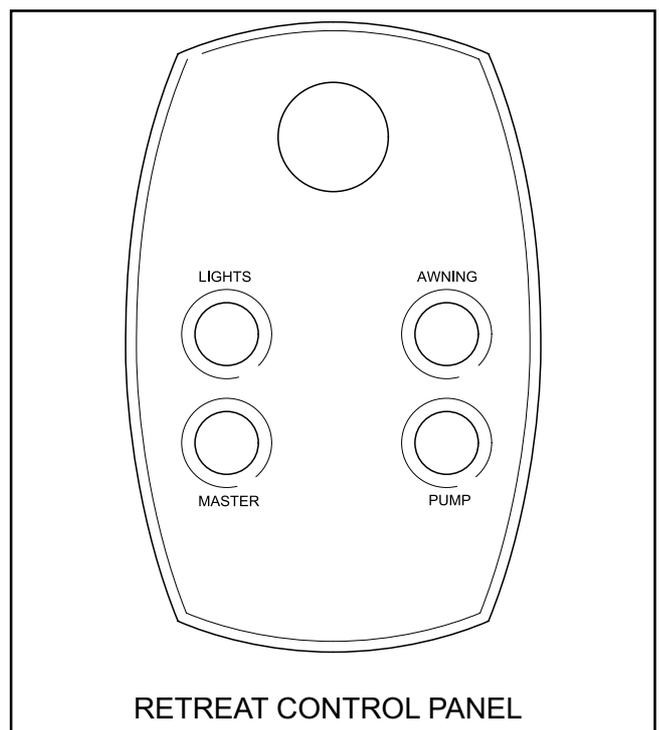
2.4.1 12-volt Control Panel

The system is fitted with an automatic relay to select the power source. When a car is connected via lead the car power will be used. When a car is not connected the power supply will be used to power the Leisure Home.

The control panel is fitted with a master 12-volt switch; this enables you to isolate the 12-volt supply in the Leisure Home.

The control panel controls the operation of various 12V equipment

- Water pumping light, is only activated when the pump is running



- All models have light isolation and awning switches fitted into the control panel.



- ▲ The appearance of the control panel may vary, but the functions are the same.

The 12-volt electrical system fuses are located in the Leisure Home bed box. It has 14 fuses each having identification to their particular use. If a fuse is to be replaced it must be with one of the same rating as that removed.

2.4.2 Mains inlet

The 230V mains inlet is located on the offside mounted in the side of the Leisure Home.

3.1 ALDE WATER HEATING SYSTEM

Operating Instructions

Please read these instructions carefully before using the boiler. These instructions are approved for The Alde Compact 3010 boiler fitted in Leisure Homes, in accordance with CE no. EMC e5 02 0138, 845 BP-0003. Installation and repairs may only be carried out by a professional. National regulations must be adhered to.

3.1.1 Boiler Design

The boiler consists of three eccentrically-fitted cylinders (heat exchanger, water jacket for the heating system and, outermost, water jacket for hot water). The two outer pipes, and their ends and connections, are made of stainless steel, while the heat exchanger is made of aluminium. The heat exchanger is divided into two semi-circles. The burner is located in the upper half, being the combustion chamber, and the combustion gases are expelled through the lower half. The burner unit is fitted on the end of the heat exchanger. It consists of a combustion fan, burner, solenoid valve and intake/exhaust connections. Two heating cartridges are fitted to the water jacket of the heating system. Maximum output is 2 or 3 kW, depending on model.

3.1.2 Description of Functions

Using 230v

The boiler is shown to have 230v power supply by the two pin plug in the upper right corner of the digital control panel. If this symbol is not shown, please check that the remote 230v isolator switch for the Alde system is in the on position. Once the two pin plug symbol is shown, you can select a choice of one, two or three kilowatt power according to the supply available.

Using LPG

When LPG operation is selected on the control panel, the combustion fan starts. When the fan speed is correct, it signals the circuit board that the boiler can be lit. The circuit board sends ignition sparks to the spark plug at the same time as it sends electricity to the solenoid valve, which opens to allow gas in. The burner ignites, and a sensor transmits a signal back to the circuit board that the boiler is lit, and the ignition spark stops. The burner keeps burning until the boiler thermostat or the room thermostat reaches the set temperature reading. Should the boiler go out for any reason, the sensor is activated and a new attempt is made to start the boiler (in about 10 seconds).

Using the heating cartridge

Electrical operation is selected on the control panel, the 12-volt relays on the circuit board trip, allowing the 230 volt supply to reach the electrical elements. The heating cartridge is controlled in the same way as the gas boiler.

Warm water

When only warm water is required, for example during the summer, no settings need to be made, the boiler will look after this function automatically.

The pump will only start when the temperature in the vehicle is lower than the set temperature (see item 4, Control Panel).

If the vehicle temperature is higher, the pump will not start.

Important Information



- ▲ The boiler must not be started if there is no glycol in the system.
- ▲ The LPG boiler and heating cartridge may be operated in parallel.
- ▲ The heating system may be heated up without the warm water heater being filled with fresh water.

- ▲ Always switch off the main isolator for the boiler when the vehicle is not being used.
- ▲ Always drain the warm water heater of fresh water if there is a risk of frost.
- ▲ The LPG boiler must not be operated when refuelling the vehicle.
- ▲ When washing the vehicle, take care not to get water in the roof vent.

3.1.3 The Domestic Hot Water Heater

The boiler is fitted with a built-in warm water heater with a volume of approx. 8.5-litres fresh water. The warm water heater can produce around 12 litres of 40°C water per half-hour (at a cold water temperature of 10°C). If the heating cartridges are used instead of gas for heating the boiler, the capacity is slightly reduced. Always rinse out the heater before it is used, particularly if it has not been in operation for some time.



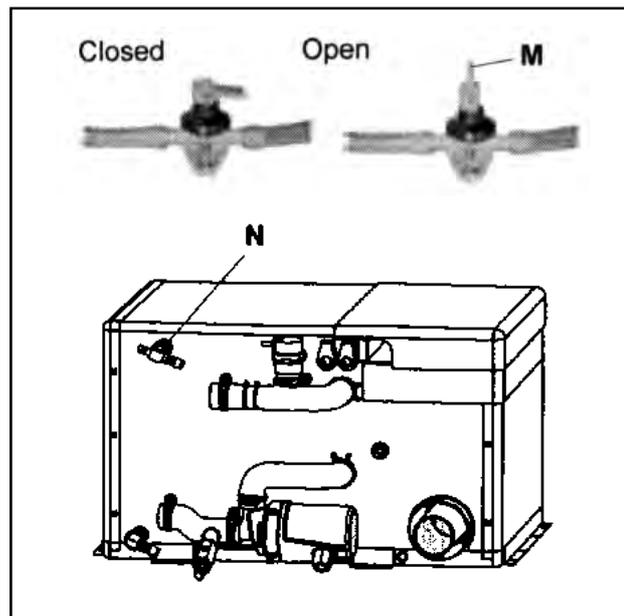
- ▲ The hot water is not intended for drinking or cooking. When the heater is in continuous use, it should be emptied approx. once a month, to ensure that a new air cushion is formed in the heater. The air cushion is essential for absorbing pressure surges in the heater. For emptying specially-adapted boilers, as well as any other freshwater systems in the vehicle, please refer to the manufacturer's instructions.
- ▲ The warm water heater should always be drained of fresh water when there is a risk of frost and when the Leisure Home is not in use. The warranty does not cover frost damage.

Draining the heater using the combined safety/drain valve:

1. Switch off the freshwater pump
2. Open all water taps.
3. Then open the safety/drain valve by raising the yellow lever (M) to a vertical position.
4. The heater will now drain directly below the vehicle through the safety/ drain valve hose. Check that all the water is emptied out (about 7-10 litres). Leave the valve in the open position until the next time the heater is used.



- ▲ Check that the automatic check valve (N) is open and is allowing air to enter the heater when it is being drained, and that the hose (O) is not blocked.



3.1.4 The Heating Cartridges

All Compact 3010s are fitted with two 230 V heating cartridges with a maximum output of either 2100 or 3150 W. Select the heating cartridge output on the control panel. Always check that the input fuse of the vehicle has the correct amperage in relation to the selected output. Note these ratings are for the boiler only. 1050 W requires a 6 amp fuse. 2100 W requires a 10 amp fuse. 3150 W requires a 16 amp fuse.

3.1.5 The Circulation Pump

Your Bailey Leisure Home has an adjustable speed 12 V pump located on the side of the boiler. Care should be taken not to run it at high speeds for prolonged periods as this will shorten the pumps life and increase noise. Speed 2 is adequate for Leisure Homes. Higher settings are used to remove air from

the system. The central heating pump is activated depending on the temperature set on the control panel. Turning on the Hot water boost function will turn off your central heating pump.

3.1.6 System Temperature

The boiler is set to a system temperature of 80°C, i.e. the temperature of the glycol fluid as it circulates in the heating system.

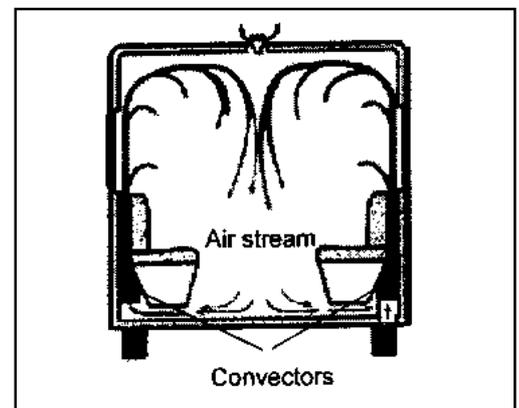
3.1.7 Air Circulation

In order to achieve the best possible result from the principle of connected heat, it is important to allow air to circulate freely under bunks, and behind backrests and wall-mounted cabinets. Ensure that the carpet does not obstruct the air supply to the radiators. It is just as important that cushions or blankets do not interrupt the flow of air behind backrests and wall cabinets.

3.1.8 Maintaining the Heating system

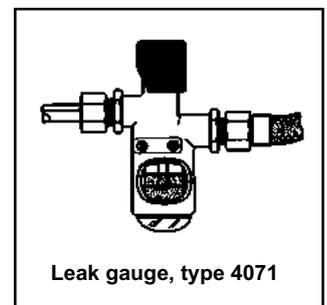
Winter camping

In winter, ensure that the flue is kept clear of snow and ice, since the inlet air to the LPG boiler enters through the flue. Do not start the LPG boiler until the flue is completely free of snow. A flue extension (part no. 3000 320) for fitting on the roof is recommended for winter camping.



The LPG system

The LPG system should be checked regularly by a professional, who will ensure that there are no leaks from connections or hoses. LPG hoses should be changed according to national regulations, maximum of five years. Check the date stamp on the hose. Hose has a propensity to dry out and crack. To increase safety, we recommend fitting an Alde leak gauge, type 4071, as close as possible to the pressure reduction valve.



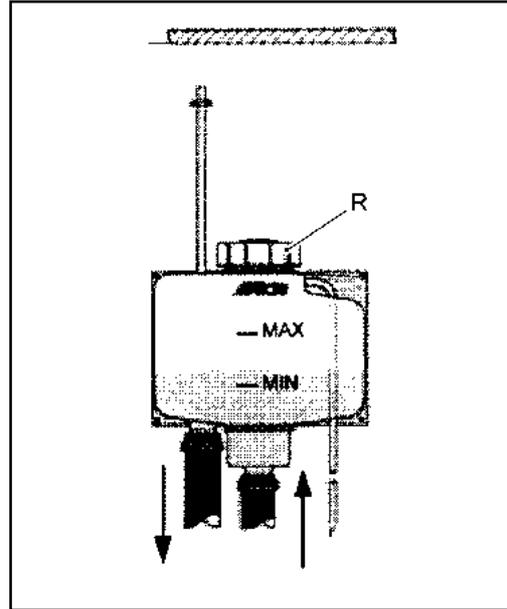
The heating system

Regularly check the heating system's fluid level in the expansion tank. The level should be about 1cm above the minimum indicator in a cold tank. The heating system should be filled with a mixture of water and glycol. For preference, use high quality readymixed glycol (with inhibitor) intended for use in aluminium heating systems. If using concentrated glycol, the mixture should consist of 60% water and 40% glycol. If the heating system will be exposed to temperatures below -25°C, the glycol content must be increased, but not to more than 50%. Any vessels used for the liquid must be spotlessly clean, and the pipes in the heating system must be free of contamination. This will prevent the growth of bacteria in the system. The glycol mixture should be changed every second year, since its ability to protect against corrosion, for example, will deteriorate. The glycol content should be checked before topping up with new liquid. This will ensure that the concentration of glycol in the mixture is not too high. If the fluid level in the expansion tank falls for reasons other than evaporation, please check all joints, drain cocks and bleeder screws to ensure that they are not leaking. If the glycol-water mixture leaks out, rinse with water and wipe up. Never allow the heating system to stand empty of glycol.

3.1.9 Filling the System With Glycol Fluid



- ▲ For manual filling, unfasten the expansion tank nut (R) and slowly pour the glycol mixture into the tank. Bleed the system and top up with more liquid if the level has fallen after bleeding. Bleed a newly-filled system regularly during the first days the heating system is in operation.



3.1.10 Bleeding the System

Depending on how the pipes have been fitted, air pockets may form when the system is filled with glycol fluid. A sign that there is air trapped in the system is that the heat released into the pipes only extends a metre or so from the boiler even though the circulation pump is operating. In newly-filled systems, small air bubbles can form in the expansion tank, creating a murmuring sound. If the circulation pump is stopped for a few seconds, the bubbles will disappear.

Bleeding:

If a bleeder screw is fitted to the outgoing pipe, open this bleeder screw and leave it open until it starts to discharge water. If the boiler is fitted with an automatic bleeder, there is no need to bleed it manually. Start the LPG boiler. The circulation pump should be switched off.

Open the remaining bleeder screws in the system (please refer to the instruction manual of the vehicle for their locations). Leave the bleeder screws open until they start discharging fluid, and then close them. Start the circulation pump and let it run for a while. Check that the pipes and radiators around the vehicle are heating up.

If they still fail to heat up, try the following:

The easiest way to bleed the heating system is to place the vehicle on a sloping surface or to raise one end of the vehicle using a jack. Bleed the system as described above.

3.1.11 Fault Finding

The boiler does not start

1. No LPG? Incorrect type for conditions?
2. Is the main tap fully open?
3. If the boiler has not been operated for some time, or if the gas cylinder has been changed, it may take longer than normal to light the boiler.
4. Check that the boiler is connected to the electricity supply (> 11 V).
5. Check that the fuse (T) for the boiler is intact.
6. Check whether the electric connections on the boiler are securely in position.

If none of the above helps, contact a service workshop.

The heating cartridge is not working

1. Check that there is an electricity supply (230 V) to the heating cartridge.
2. Check that the relays fitted to the boiler come on (a slight click can be heard from the relays when the heating cartridge is switched on at the control panel).

If none of the above helps, contact a service workshop.

3.1.12 Control Panel - Functions and Symbols

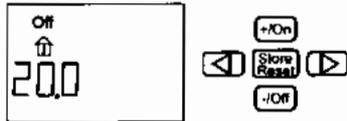
(Applies to control panels with programme version 38 (06-17) or later, see item 17)

0. The standby and on-position of the control panel

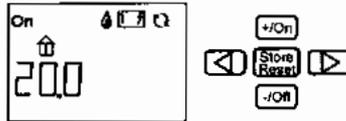
In standby, the functions which are activated in the boiler are shown, and there is no background lighting in the display. The control panel automatically goes to standby from the on position after two minutes if no buttons are pushed or if you step to standby (left of On/Off) with the arrow keys.

Start the on position by pressing any button. The background lighting comes on (blue light) and a function that can be set flashes. Select a function that can be set with the arrow keys. The settings are automatically saved.

1 The control panel is on standby and the heater is switched off.



2 The control panel is on standby and the heater is operating.

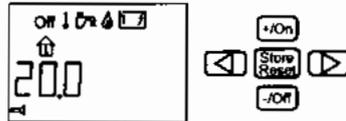


1. Resetting the system

1 Press the Store/Reset button for 10 seconds. The control panel is reset to the factory setting.



2 The main breaker to the control panel is in the "Off" position, Gas is on, Electricity at 1kW and 22°C.



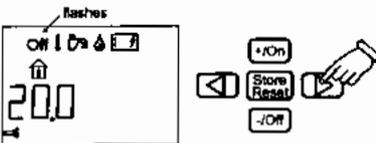
The pump is in automatic position. The lower menu row is not lit up.

2. Start the heater

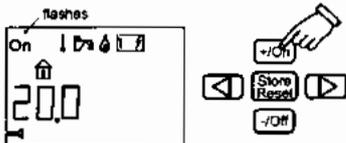
Start the heating in the caravan with the settings last used.

If you break the power to the heater, the settings which were last used will automatically be used when the power comes back on.

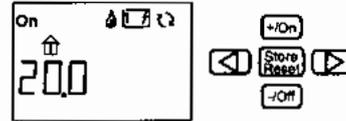
1 Press the button with the arrow until "Off" (main breaker) in the display flashes.



2 Press the +/On button. "On" (main breaker) in the display flashes.

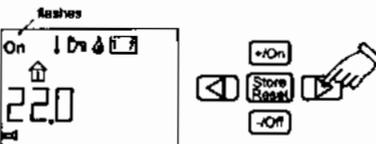


3 The settings are ready. "On" (main breaker) is shown in the display when the panel returns to standby.

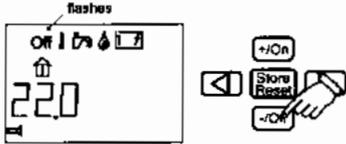


3. Switch off the heater

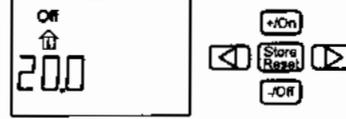
1 Press the button with the arrow until "On" (main breaker) in the display flashes.



2 Press the -/Off button. "Off" (main breaker) in the display flashes.



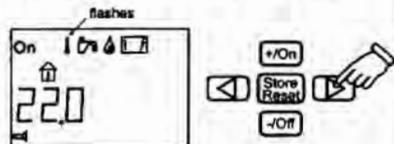
3 The settings are ready. "Off" (main breaker) is shown in the display when the panel returns to standby.



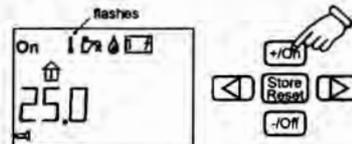
4. Set the temperature you want in the Leisure Home

The temperature of the vehicle can be set from +5°C to +30°C at intervals of 0.5°C.

- 1 Press the button with the arrow until the symbol for selecting temperature flashes. The temperature shown is the temperature which is set at present (in this case 22.0°C).



- 2 Increase the temperature by pressing the +/On button. Lower the temperature by pressing the -/Off button. The diagram shows that we have set the temperature at 25.0°C.



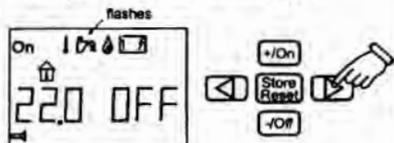
- 3 The settings are complete and the boiler is working at the set temperature.

5. Warm water

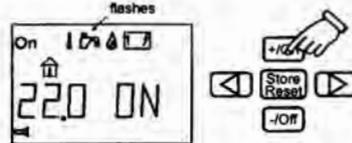
If you need more warm water you can increase the quantity temporarily for 30 minutes by increasing the water temperature from 50°C to 65°C.

When 30 minutes have elapsed, the water temperature returns to 50°C and the symbol goes out. When you have selected more warm water, the circulation pump stops.

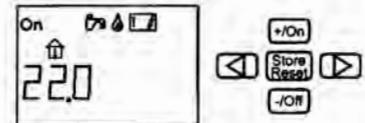
- 1 Press the button with the arrow until the symbol for selecting warm water flashes. The "OFF" text is shown next to the temperature on the display.



- 2 Switch the warm water on by pressing the +/ON button. The "ON" text is shown next to the temperature on the display.

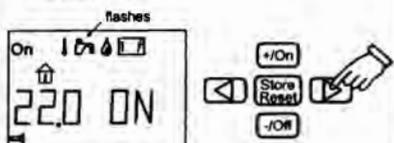


- 3 The warm water symbol is displayed when the panel returns to standby.

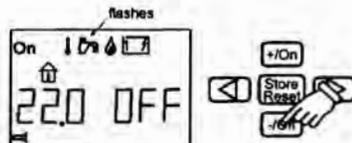


If you want you can switch off more warm water before 30 minutes have elapsed.

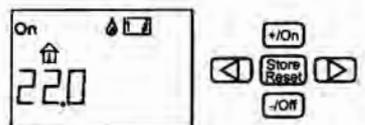
- 1 Press the button with the arrow until the warm water symbol flashes. The "ON" text is shown next to the temperature on the display.



- 2 Switch off the warm water by pressing the -/Off button. The "OFF" text is shown next to the temperature on the display.



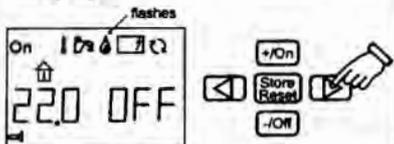
- 3 The warm water symbol goes out when the panel returns to standby.



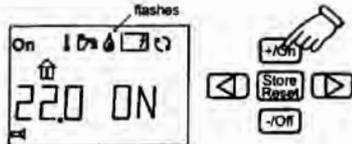
6. Heating with gas

Do as follows to activate heating with gas.

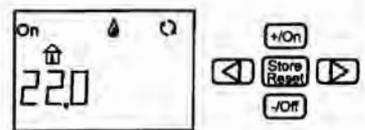
- 1 Press the button with the arrow until the gas heating symbol flashes. The "OFF" text is shown next to the temperature on the display.



- 2 Select gas heating by pressing the +/On button. The "ON" text is shown next to the temperature on the display.

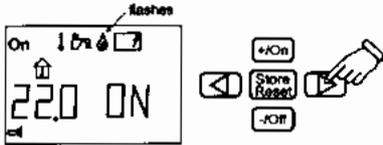


- 3 The gas heating symbol is displayed when the panel returns to standby.

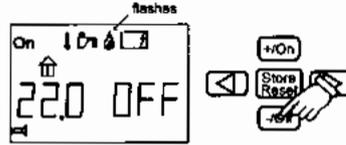


Do as follows to switch off the gas heating.

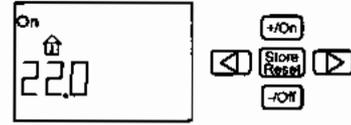
- 1 Press the button with the arrow until the gas heating symbol flashes. The "ON" text is shown next to the temperature on the display.



- 2 Switch off the gas heating by pressing the -/Off button. The "OFF" text is shown next to the temperature on the display.



- 3 The gas heating symbol goes out when the panel returns to standby.

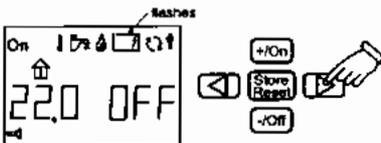


7. Heating with electricity

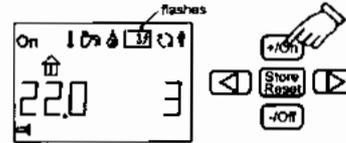
1234

To activate heating with electricity. The greater the power the more rapid the heating will be.

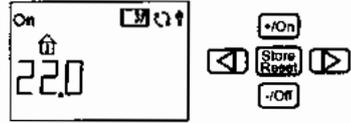
- 1 Press the button with the arrow until the electrical heating symbol flashes. The "OFF" text is shown next to the temperature on the display.



- 2 Select power (1kW, 2kW or 3kW) with the +/On or -/Off buttons. The diagram shows that 3kW power has been selected (some boilers are only equipped with 1-2kW).

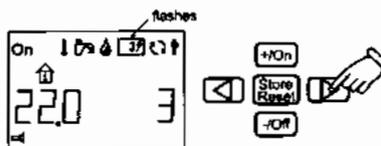


- 3 The electrical heating symbol is shown when the panel returns to standby.

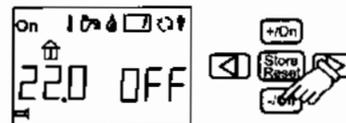


Do as follows to switch off heating with electricity.

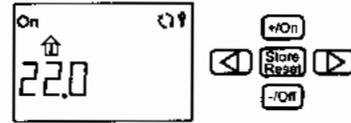
- 1 Press the button with the arrow until the electrical heating symbol flashes.



- 2 Switch off the electrical heating by pressing the -/Off button until all power steps have gone out. The "OFF" text is shown next to the temperature on the display.



- 3 The electrical heating symbol goes out when the panel returns to standby.

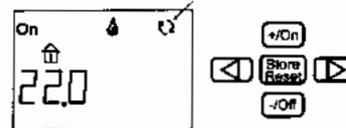


8. Circulation pump



This symbol is displayed when the circulation pump is operating (12V-pump or 230V-pump).

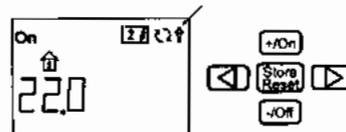
When heating is required in the vehicle, the pump starts automatically. The boiler selects the 230V pump if one is installed in the system. When the 230V is disconnected from the vehicle the 12V pump is automatically selected. The symbol will light up even if the pump is defective.



9. 230V connection



This symbol lights up when 230V is connected to the vehicle.



10. Temperature



This symbol shows the indoor temperature in the caravan in intervals of 0.5°C.



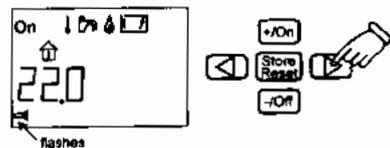
This symbol shows the temperature outside the caravan in intervals of 1°C. To use this function an outdoor temperature sensor must be installed.

11. Working with the lower menu row

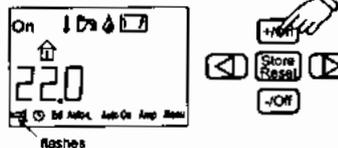


The lower menu row can be used for such things as setting the clock, external start, night temperature, automatic start of the heater. To use the lower menu row you must activate it by doing as follows:

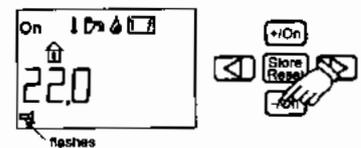
- 1 Press the button with the arrow until the symbol for the lower menu row flashes.



- 2 Light up the menu row by pressing the +/On button. The lower row with symbols lights up.



- 3 To switch off the lower menu row, press the -/Off button when the symbol flashes. Activated functions will be displayed even if the lower menu row is switched off.

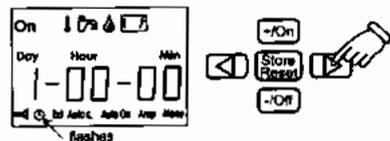


12. Clock

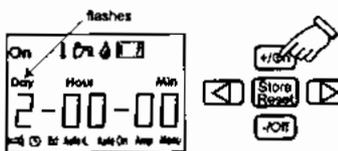


To set the clock, first light up the lower row of functions (see item 11).

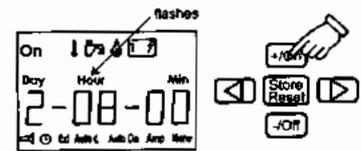
- 1 Press the button with the arrow until the clock symbol flashes.



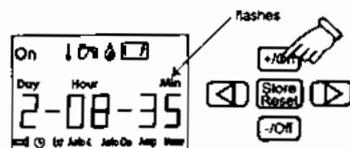
- 2 Press the +/On button. Day flashes. Use +/On or -/Off to set the weekday.



- 3 Step forward with the arrow key until the time is displayed. Hour flashes. Use +/On or -/Off to set the full hour.



- 4 Then step forward with the arrow key until the minutes are displayed. Min flashes. Use +/On and -/Off to set the minutes.



- 5 Press Store and the time you have set is stored. The example shows Tuesday, 08.35.



If the power to the panel is broken and the battery backup is not connected, the clock must be set again.

Weekday: 1-7

1=Monday

7= Sunday

Hours: 0-23

Minutes: 0-59

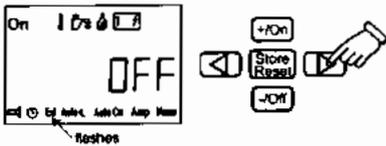
13. External start

Ext

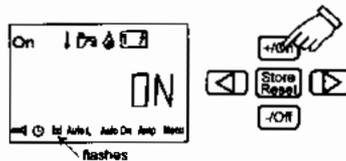
This function is used if you wish to start the heater in the caravan from outside. To use this function it is necessary to have an installation for external start (see

vehicle manual). To activate external start, first light up the lower menu row of functions (see item 11).

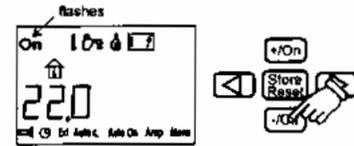
- 1 Press the button with the arrow until the "Ext" symbol flashes. The "OFF" text is shown next to the temperature in the display.



- 2 Press the +/On button. The "ON" text is shown next to the temperature in the display.



- 3 Press the button with the arrow until the On symbol (main breaker) flashes. Press -/Off.



- 4 Off and Ext are shown in the display when the panel returns to standby. External start is activated.



When external start is activated the heater will start with the latest settings and "ON" (main breaker) comes on. If 12V is not connected to the heater, the display will not light up until 12V is connected. The external start function is still activated.

To switch off external start, go to the "Ext" symbol in the on position and press the -/Off button.

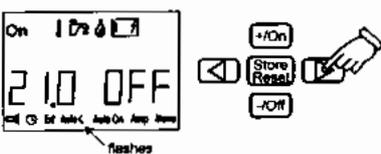
14. Automatic temperature change

Auto ☾

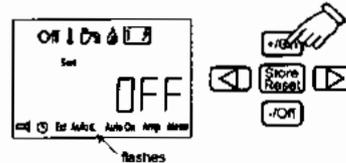
This function is used when you wish to set automatic temperature change, for example, during the night.

In order to activate automatic temperature change, first light up the lower menu row of functions (see item 11).

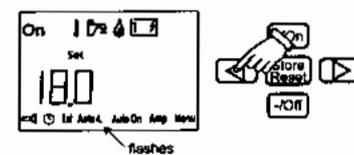
- 1 Press the button with the arrow until the symbol for automatic temperature change flashes. The temperature and the "OFF" text are shown on the display.



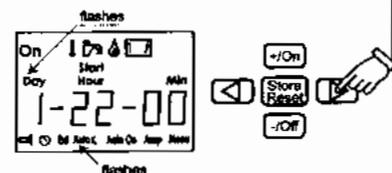
- 2 Press the +/On button. Set flashes and the OFF text is shown in the display. Press +/On to activate the function. "ON" is shown in the display.



- 3 Press the left arrow key. The required temperature is displayed. Then adjust the temperature by pressing the +/On or -/Off button.



- 4 Then press Store and the start time is displayed. Adjust the start time (the same procedure as in 12) and press the "Store" button.



- 5 Now adjust the stop time and press "Store" again. The text field shows the required temperature and ON.



- 6 If you want the temperature change to be repeated daily, select day 0. Auto ☾ is shown in the display when the panel returns to standby.

15. Starting the heater automatically AutoOn

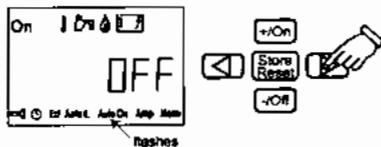
This function is used if you want the heater to start automatically at a later time. The heater works for 24 hours and then stops.

Automatic start is repeated the following week as long as the function is activated.

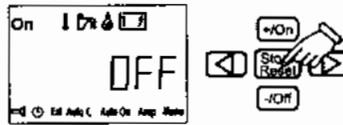
To activate the function you must first light up the lower row of functions (see item 11).

The function controls the panel's main breaker.

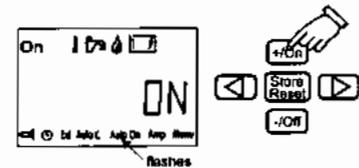
- 1 Press the button with the arrow until the AutoOn symbol flashes. "OFF" is shown in the display. To activate AutoOn, press the +/- On button or the -/Off button to close the function.



- 2 The start time will be displayed. Set the time in accordance with item 12 and press "Store" to store the settings. "OFF" is shown in the display.



- 3 Press the +/-On button. On is shown in the display and AutoOn flashes. Set the panel's main breaker to OFF.



When you get to the vehicle and AutoOn is activated, de-activate AutoOn so that the heater does not stop after 24 hours (the boiler cannot be switched off when AutoOn is activated).

You can then step back with the left-hand button in the settings and press Store in all positions.

16. Load monitor Amp

This function is used if you do not want the 230V fuses to become overloaded. If the vehicle's total current consumption exceeds the set value, the boiler's electrical power will be automatically reduced.

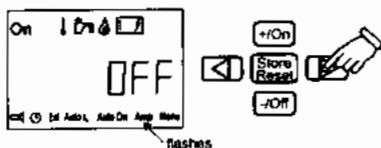
On account of voltage variations and tolerances, one can select various control levels (for example, for 6A fuse, one can choose either 5,6,7 Amp setting).

If the fuse does not hold, select a lower set value.

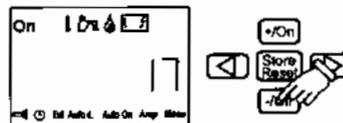
The function is disconnected in the factory setting.

To activate the function, you must first light up the lower row of functions (see item 11).

- 1 Press the button with the arrow until the Amp symbol flashes. "OFF" is shown in the display.



- 2 Press the -/Off button to activate and set the function. The following values can be set with +/-On or -/Off buttons, 5,6,7,9,10,11,15,16,17.



- 3 Amp is shown in the display when the panel returns to standby.

17. Menu Menu

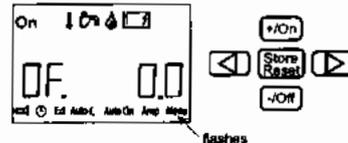
In the "Menu" setting one can activate a number of functions. To activate the function you must first light up the lower row of functions (see item 11).

To step between the various functions, use the arrow keys.

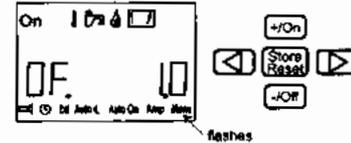
OFFSET (Temperature adjustment)
With this function you can calibrate the temperature on the panel if you notice that the temperature (the stabilised room temperature) does not correspond with the temperature shown on the panel.

- 1 Press the button with the arrow until the Menu symbol flashes. Press +On.

- 2 When OF is displayed, adjust the temperature displacement with +/On or -/Off (+/-5°C in intervals of 0.5°C).



- 3 Press Store to leave the OFFSET function.

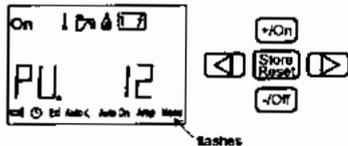


PUMP 12V/PUMP AU.

The 12V pump is used in the PU 12 setting even if 230V is connected. In the PU AU position, the 230V pump works, and when 230V is disconnected, the 12V pump starts. The PU AU function is activated in the factory setting.

- 1 Press the button with the arrow until the Menu symbol flashes. Press +On.

- 2 When OF is displayed, step with the arrow key until PU AU is displayed. Press +/On and PU 12 is displayed.



- 3 Press -/Off and PU AU is displayed. Press Store to leave the pump function.

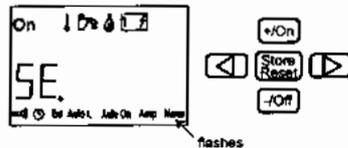


SERVICE

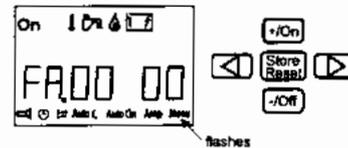
With this function one can see what values* from the heater are displayed. The values are updated once per second.

- 1 Press the button with the arrow until the Menu symbol flashes. Press +On.

- 2 When OF is displayed, step with the arrow key until SE is displayed. Press +/On to see the various values (-/Off can also be used).



- 3 To leave Service, press Store.



* The values shown during service are:

FA (revolutions): The speed of the fan divided by 2.

SH (temp): Warm water temperature.

HE (temp): Operating temperature.

OH: If the overheating protection has been tripped On or alternatively Off.

HS (X): Software version in the heater.

PS (X): Software version on the panel.

I: Amp. Guideline value shown in steps of 0.5 A.

WI: Window breaker on-off.

ES: External start on-off.

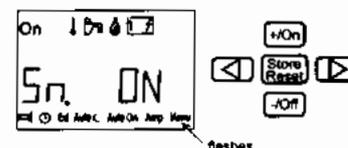
10-RS: Heater information, only for ALDE.

Button sound

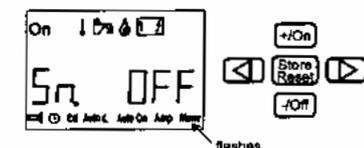
With this function you can connect or disconnect the button sound to the buttons. The button sound is disconnected in the factory setting.

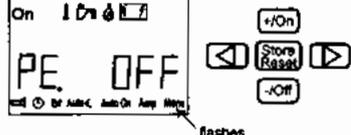
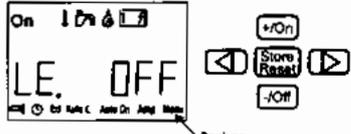
- 1 Press the button with the arrow until the Menu symbol flashes. Press +On.

- 2 When OF is displayed, step with the arrow key until Sn is displayed. Press +/On and the button sound is connected.



- 3 Press -/Off to disconnect the button sound. Then press Store to leave the button sound function.



<p>Constant pump operation With this function, selected pump is in constant operation. The function is disconnected in the factory setting. This function limits the hot water supply, particularly when there is little need of heat.</p> <p>1 Press the button with the arrow until the Menu symbol flashes. Press +On.</p>	<p>2 When OF is displayed, step with the arrow key until PE is displayed. Press +/On and constant pump operation is connected.</p> 	<p>3 Press -/Off to disconnect constant pump operation. Then press Store to leave the pump operation function.</p> 
<p>Automatic temp. increase At 02.00 hours (night time) the boiler starts and works in accordance with Warm water (item 5) if the clock is set. The reason for this is to reduce the risk of legionella. The function is disconnected in the factory setting.</p> <p>1 Press the button with the arrow until the Menu symbol flashes. Press +On.</p>	<p>2 When OF is displayed, step with the arrow key until LE is displayed. Press +/On and legionella is connected.</p> 	<p>3 Press -/Off to disconnect legionella. Then press Store to leave the legionella function.</p> 

18. Fault messages

When a fault occurs in the system the reason is shown in the display.

LOW BAT: If the vehicle has a battery voltage of less than 10.5V, the heater stops. The heater is automatically reset when the voltage comes up to 11V.

FAN: Faulty fan speed. Automatic resetting after 5 minutes.

GAS OUT: Gas finished. Resetting by switching off and restarting the boiler in accordance with item 1.

OHEAT 1: Overheating protection tripped. To re-set, disconnect 12V from the boiler and connect again.

OHEAT 2: Thermostat tripped. To re-set, disconnect 12V from the boiler and connect again.

WINDO: Window open, the boiler stops for gas. Gas operation in the boiler starts when the window is closed. Electrical operation functions. Check the vehicle instructions to see whether this function is installed.

SERIAL: There is a connection fault between boiler and panel. Normally, this is a mechanical fault in the connection between the heater and panel. To re-set, break the main current and then start again.

19. Emergency start

- Disconnect 12V and the cable to the panel on the heater.
- Connect a cable between 2 and 9 in the contact device (on the heater).
- Connect 12V to the heater.

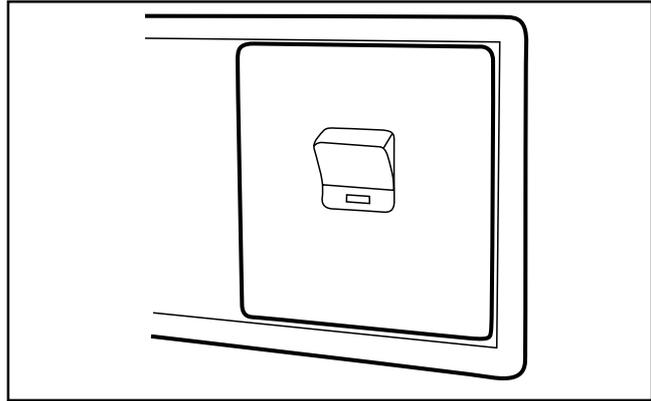
Now the heater starts with gas and 1kW. (Regulation of room temperature does not function, constant pump operation).

3.1.13 Electrical operating instructions (230v)

Ensure that the water heater is full then switch the isolation switch on. (Usually mounted on the bunk face adjacent to the gas control switch.)



- ▲ The water temperature cannot be selected, temperature is automatically limited to 70°C. For a faster heating up the appliance can be simultaneously operated with gas and electrical power.



3.1.14 General Safety Notes:

- ▲ In the event of leaks in the gas systems or if there is a smell of gas:

- Extinguish all naked flames
- Do not smoke
- Switch off the appliance and the gas cylinder
- Open the windows
- Do not operate any electrical switches
- Have the entire system checked by an expert
- Repair jobs are only to be carried out by an expert.
- The following would invalidate the guarantee;
 - a. Any alteration to the appliance (including cowl)
 - b. The use of non-Alde spare parts/accessories
 - c. Non observance of the operating instructions
- The operating pressure for the gas supply is 30mbar (or for 28mbar butane / 37 mbar propane) and must correspond to the operating pressure of the appliance (see name plate).
- Do not operate the water heater when refuelling the vehicle and when in the garage.
- During the initial operation of a brand new appliance (or after it has not been used for some time), a certain amount of fumes and a slight smell may be noticed for a short time. Remedial action here is to immediately run the heater at maximum output and to ensure adequate room ventilation.
- If the burner makes an unusual noise or if the flame lifts off, it is likely that the regulator is faulty and it is essential to have it checked.

3.2 INTERIOR PRODUCTS

As a general rule, avoid abrasive cleaning products or cloths, or any heavy chemical-based cleaning products that have a high concentration of acids or alkaline. The constituents can lead to the degradation of plastic and other surface treatments used in the Bailey Leisure Home.

In instances of heavy soiling product should be cleaned with warm soapy water and again wiped clean with non abrasive cloth

3.3 The Thetford Cooking Appliances

Operating Instructions

Ensure the gas cylinder is turned on.

In the event of a gas smell turn off at the cylinder and contact supplier.

The use of a gas cooking appliance results in the production of heat and moisture in the room in which it is installed. Ensure that the kitchen is well ventilated, keep natural ventilation holes open or install a mechanical ventilation device (mechanical extractor hood).

Prolonged intensive use of the appliance may call for additional ventilation, for example opening a window, or more effective ventilation, for example increasing the level of mechanical ventilation where present.

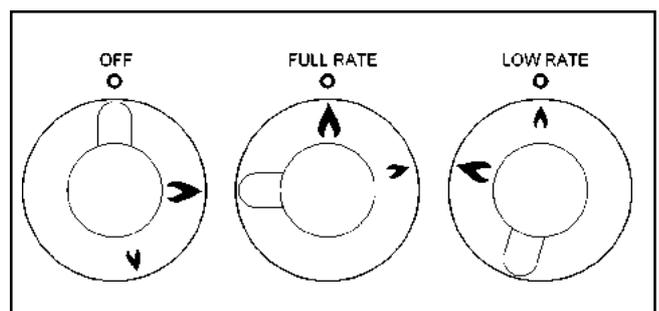
3.4 THE LINEAR HOB

3.4.1 Hotplate Burners



- ▲ Glass lids may shatter when heated. Turn off all burners before shutting the lid.
- ▲ The glass lid has a tendency to snap shut towards the lowered position. Make sure all fingers are removed from appliance when closing lid.

Each burner is controlled individually and is monitored by a flame supervision device. In the event of the burner flames being accidentally extinguished, turn off the burner control and do not attempt to re-ignite the burner for at least one minute. The respective knob positions are shown.



To light the burner, press in and turn the knob anti-clockwise to the full rate position and apply a light to the burner or, if fitted, press the ignition button located on the oven control fascia. It is necessary to hold the knob depressed during ignition and for approximately fifteen seconds after the burner has lit to allow the probe to reach temperature. Should the flame go out when the knob is released, the procedure should be repeated holding the knob depressed for slightly longer.

For simmering, turn the knob further anti-clockwise to the low rate position. To turn the burner off, rotate knob fully clockwise until the line on the knob lines up with the dot on the control panel. The burners on this appliance have fixed aeration and no adjustment is required. Depending on the gas being used, 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 and then slightly increases as the burner heats up.

Care should be taken not to overload the appliance as reduced performance may result.

When using small pans, the flames should not spread beyond the base of the pan as this will reduce the efficiency of the burner.

3.5.2 ELECTRIC HOTPLATE

- (1) Ensure the electricity is switched on.
- (2) The hotplate control is numbered from 1 (Low) to 6 (High). To turn it on, rotate the knob either clockwise or anti-clockwise to the required position.
- (3) To turn the hotplate 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 use the correct size pan with a flat heavy gauge base. The pan size should be the same or slightly larger than the hotplate (up to 1" / 2.5 cm oversize).

Before using your hotplate for the first time, we recommend that you prime and then 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:-

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 appearance.

3.5 THE MIDI OVEN & GRILL

3.5.1 Grill



- ▲ Accessible parts may be hot when the grill is used! Young children should be kept away.
- ▲ The heater deflector below the fascia should be pulled out prior to grill operation.
- ▲ Whilst the grill is operating never adjust the deflector without using hand protection.
- ▲ Only use the grill with the door open and always remove the handle from the pan when in use.

1. Ensure gas cylinder/supply is connected and turned on. In the event of a gas smell turn off at gas cylinder/mains and contact supplier.
2. Remove all accessories and packing that may be in the grill including any plastic coating that may be protecting the grill cavity surfaces. Clean the interior before using it for the first time, use soap water and rinse carefully.
3. To light: Open door, push in the control knob and turn to full rate. Hold a lighted match or taper to the burner and push the control knob in and hold. The burner should ignite and the control knob should be held in for 10 -15 seconds before release. If the burner goes out, repeat procedure holding control knob for slightly longer.
4. For models fitted with Spark Ignition the procedure is similar except that the burner can be ignited by depressing the ignition button which is located on the fascia. Ignition must be carried out with the door open, and if the burner has not lit within 15 seconds the control knob should be released and the grill left for at least 1 minute before a further attempt to ignite the burner.



- ▲ Note: the grill must only be used with the door open

6. 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 so open any windows and turn on mechanical ventilators to help remove the smoke.
7. Although the grill does heat up quickly, it is recommended that a few minutes preheat be allowed.
8. Flame Failure Device (FFD): the grill burner is fitted with a flame sensing probe which will automatically cut off the gas supply in the event of the flame going out. In the event of the burner flames being accidentally extinguished, turn off the burner control and do not attempt to re-ignite the burner for at least one minute.
9. It is normal for the flames on this burner to develop yellow tips as it heats up, particularly on Butane.
10. Variation in cooking can be achieved by using the control knob to regulate the heat setting. In addition, the grill pan trivet can be reversed or removed to give a greater choice of grilling height. Always use the highest trivet position for fast toasting.
11. To turn off: turn the control knob until the line on the control knob is aligned with the dot on the control panel. Always make sure the control knob is in the off position when you have finished grilling.

3.5.2 Oven

1. Ensure the gas cylinder is connected and turned on. In the event of a gas smell turn off at gas cylinder and contact supplier.
2. Remove all accessories and packing that may be in the oven and clean the interior before using it for the first time. Use warm soapy water and rinse carefully.
3. **To light** : Open door, push in the control knob and turn to gas mark 9. Hold a lighted match or taper to the burner and push the control knob in and hold. The burner should ignite and the control knob should be held in for 10-15 seconds before release. If the burner goes out, repeat procedure holding control knob for slightly longer.
4. For models fitted with Spark Ignition the procedure is similar except that the burner can be ignited by depressing the ignition button which is located on the fascia. Ignition must be carried out with the door open, and if the burner has not lit within 15 seconds the control knob should be released and the oven left for at least 1 minute before a further attempt to ignite the burner.
5. Place the oven shelf in the required position and close the door. Set the control knob to approximately gas mark 5 and heat the oven for about 30 minutes to eliminate any residual factory lubricants that might impart unpleasant smells to the meals being cooked.
6. Although the oven does heat up quickly, it is recommended a 10 minute preheat be allowed. The oven should reach full temperature in about 15-20 minutes.
7. **To turn off** : turn the control knob until the dot on the control knob is aligned with the dot on the control panel.
8. **Flame Failure Device (FFD)** : the oven burner is fitted with a flame sensing probe which will automatically cut off the gas supply in the event of the flame going out.
9. **Oven shelf** : the oven shelf is designed to allow good circulation at the rear of the oven and is fitted with a raised bar to prevent trays or dishes making contact with the back of the oven. Additional shelves are available through our local caravan retailer.

3.5.3 Temperature Control

The temperature control in the oven is controlled by a thermostatic gas tap and is variable over the range 130°C to 240°C. Approximate temperatures for the settings on the control knob are shown in the table below. The temperatures indicated refer to the centre of the oven and at any particular setting the oven will be hotter at the top and cooler towards the base. The variation between top and centre, and centre to bottom is approximately equivalent to one gas mark. Good use can be made of the temperature variation in that 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, adequate spacing being used to allow free circulation for heat.

GAS MARK		TEMPERATURE		
		6000/6100		
1/4-1/2	265-275 °F	130-135 °C	very cool	meringues
1	285	140	cool	stewed fruit
2	300	150	cool	rich fruit cake
3	330	165	warm	baked custards
4	355	180	moderate	victoria sandwich
5	385	195	fairly hot	whisked sponges
6	410	210	hot	shortcrust pastry
7	430	220	hot	bread, scones
8	445	230	very hot	puff pastry
9	465	240	very hot	quick browning

DISH	GAS MARK	SHELF POSITION	COOKING TIME
scones	7	2	8-15 mins
small cakes	5	2	15-25 mins
victoria sandwich	4	2	20-30 mins
puff	8	2	15-30 mins
flaky	7	2	15-30 mins
shortcrust	6	2	15-55 mins
shortbread fingers	3	2	25-30 mins
rice pudding	2	3	100-120 mins
baked custard	3	3	50-60 mins
fruit crumble	5	3	30-40 mins
beef	3	3	25 mins per 500g plus 25 mins
	7	3	15 mins per 500g plus 20 mins
pork	3	3	30 mins per 500g plus 35 mins
	7	3	25 mins per 500g plus 25 mins

3.5.4 Cooking Guidelines



- ▲ The pan supplied with the appliance is multi functional, for use in grill or oven. Always remove the handle when in use.

Best results will be obtained by the shelf positions in this guide. It is not necessary to preheat the oven but advisable for a range of dishes. The oven is capable of full temperature in 15-20 minutes.

Most cookery books give details of the shelf positions and gas mark settings for each recipe. If in doubt about a recipe you intend to use, study the recipe carefully then find a similar dish in our guide and use our shelf position and gas mark setting recommendation. Shelf positions are from the top down. When roasting with aluminium foil care must be taken that the foil does not impair circulation or block the oven flue outlet.

Do's and Don'ts

- Do** read the user instructions carefully before using the appliance for the first time.
- Do** allow the oven 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** check that controls are in the off position when finished.
- Do Not** allow children near the cooker when in use. Turn pan handles away from the front so that they cannot be caught accidentally
- 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 surfaces of the hotplate and oven.
- Do Not** allow the lower door to crash onto the floor. Lower it by hand.
- Do Not** under any circumstances use the oven as a space heater.



- ▲ Ensure that the ceramic ball mixer tap arm is clear from the sink or oven glass lid before raising it. Failure to do so could accidentally switch on the tap when lifting the glass lid.

3.5.5 Maintenance & Servicing

This appliance needs little maintenance other than cleaning. All parts should be cleaned using warm soapy water. Do not use abrasive cleaners, steel wool or cleansing powders. When cleaning the burner ring it is essential to ensure that the holes do not become blocked. The control knobs are a push fit and can be removed for cleaning. They are interchangeable without affecting the sense of operation.



- ▲ All servicing must be carried out by an approved competent person. After every service the appliance must be checked for gas soundness.

3.6 Stainless Steel Sink

Stainless steel sinks need little maintenance other than cleaning immediately after use. Most deposits can be removed by washing with soap or mild detergent and hot water, followed by a clean water rinse and drying with a soft cloth to prevent water spotting.

For more tenacious deposits a non-abrasive multi-purpose cream cleaner such as CIF should be used, followed by a clean water rinse and drying.

Tannin stains can be removed by a solution of washing soda and water applied with a soft cloth/sponge followed by a clean water rinse to remove any residues and drying with a soft cloth.

(When cleaning with anything other than water be careful not to get the solution onto your kitchen worktop.)

Scratching will be most noticeable on highly polished components. These marks are usually only superficial and can be removed with a proprietary stainless steel cleaner/polish. A useful alternative is a car paint restorer, such as 'T-Cut'. If the surface has a directional polished grain always clean along the grain and not across it.

Always avoid bleach and trigger dispense products and never use wire wool or leave wet cloths, pads or containers on the surface as they may form water marks.



- ▲ To preserve the appearance of your appliance we recommend plastic bowls or mats are not stored in the sink. This is particularly the case when travelling because vehicle movement may cause the plastic bowl to vibrate/rub against the surface and leave marks.

3.7 Taps

To clean, wipe with a soft soapy sponge, then rinse and wipe dry. Do not use an abrasive cleaner, scouring pad, powder or wire wool to clean the tap and shower mixer. Do not use any de-scaling agent

If you live in a hard water area, lime scale may build up around the spout of your tap. Clean this off with either lemon juice or vinegar. Do not attempt to remove this with either a knife or any other sharp implement as this will damage the surface.

3.7.1 Winterizing.

Freezing in winter may cause damage to the Whale tap

To avoid this damage, ensure that the system is completely drained.

- Drain the fresh water tank either using the pump or a drain valve
- Turn the pump on and open all taps and the shower mixer (including the drain valve) and allow the pump to purge the water from the system
- Turn off the power isolator switch for the water pump
- Remember to leave all outlets open to avoid any damage.
- Lift the lever up of every tap and leave it in its central position.

3.8 REFRIGERATORS

Winter Operation - Dometic Refrigerators



- ▲ Please check that the ventilation grilles or the flue outlets are not blocked by snow, leaves etc.

3.9 DOMETIC REFRIGERATOR MODEL RM 8500 R/H

3.9.1 Cleaning

Before starting up the refrigerator, it is recommended to 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 deterioration of materials:
 - 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.

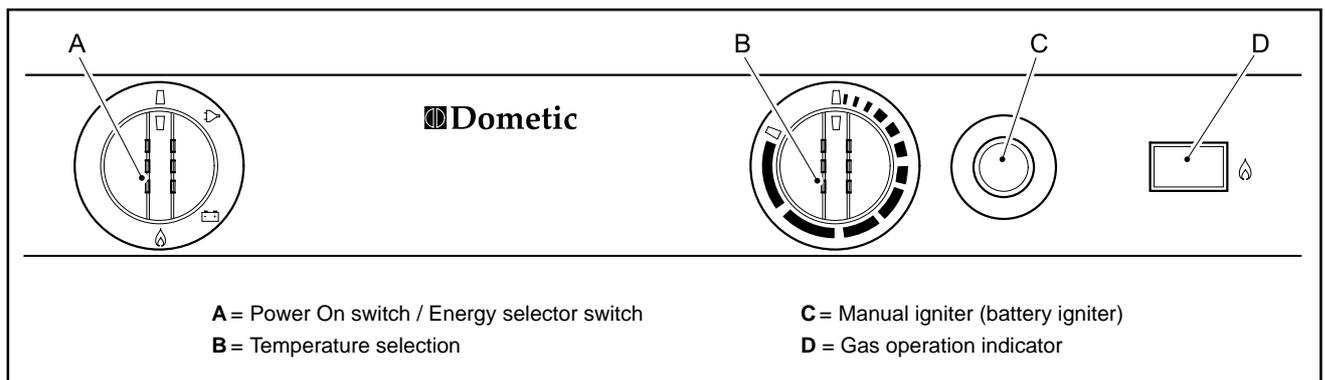
3.9.2 Operating modes and use of the refrigerator



- ▲ This refrigerator is equipped to operate on three power modes: AC mains power (230V), 12V DC or gas (propane/butane liquid gas).
- ▲ Select the desired power mode by the energy selector switch (battery igniter type models) or the MODE button (MES, AES). Appliances with automatic energy selection (AES) are additionally provided with automatic mode function. The AES system automatically selects the best energy source for each particular situation.
- ▲ The cooling unit is silent in operation.
- ▲ The refrigerator works reliably on slopes of up to 6 degrees (5 degrees with models starting from 140 litres capacity).
- ▲ When the appliance is started for the first time, there may be a mild odour which will disappear after a few hours. Air the living space thoroughly.
- ▲ The refrigerator will take several hours to reach its operating temperature in the cooling compartment.

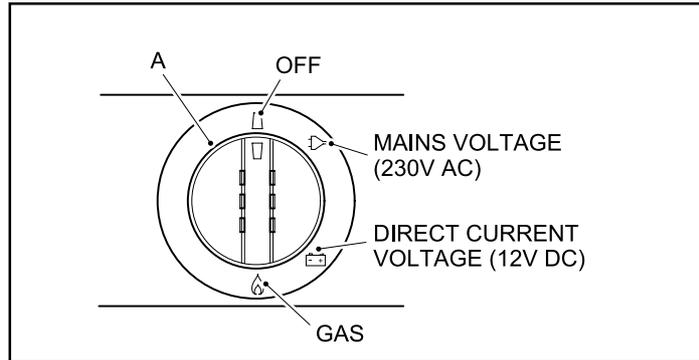
3.9.3 Control elements of energy selections (BATTERY IGNITER, MES and AES)

Manual energy selection/manual ignition (RM 8xx0) battery igniter:



Explanation:

The refrigerator is equipped to operate on mains power, 12V DC or liquid gas. Select the desired power supply by turning the energy selector switch A. The energy selector switch A has four settings: OFF, AC mains voltage, DC (battery), gas (liquid gas).

**3.9.4 Electrical operation****Appliances with battery igniter (manual energy selection)**

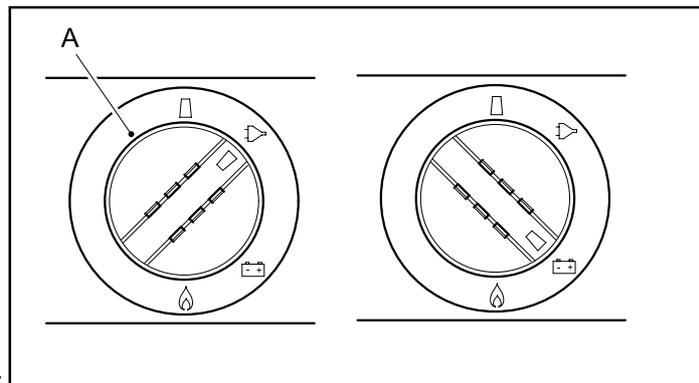
Switch on the appliance by turning the energy selection switch A clockwise to position:

 230V operation,

 12V operation



- ▲ In order to prevent discharge of the on-board battery, 12V operation should only be used while the motor is running.

**3.9.5 Gas operation (liquid gas)**

- ▲ The refrigerator must be operated using liquid gas (propane, butane (no natural gas or town gas). When using LPG gas, please consider that the burner needs cleaning at shorter intervals due to the gas combustion method (semi-annual recommended).
- ▲ In Europe, gas operation is permitted while travelling only on the condition that the gas system of the vehicle is equipped with a hose rupture protection. The national regulations of the respective country must be observed.
- ▲ For physical reasons, ignition faults could occur starting from an altitude above sea level of approx. 1000m/3280 ft. (No malfunction!)
- ▲ On the initial refrigerator start-up or after a cylinder change, air may be trapped in the gas line. To purge the air from the lines, switch on the refrigerator and any other gas appliances (e.g. stove) for a short time. The gas ignites without delay.
- ▲ As a basic rule, gas operation is prohibited in petrol stations).

Prior to starting the refrigerator in gas mode:

- Open the gas cylinder valve.
- Open the shut-off valve for gas supply to the refrigerator.

Appliances with battery igniter:

1. Turn the rotary selector switch **A** to position .
2. Turn the temperature selector **B** clockwise and push. Keep the controller button depressed.
3. Then, press knob **C** of battery igniter down and keep it depressed. The ignition process is activated automatically.
4. Once the flame ignites, the pointer of galvanometer **D** begins moving into the green range. The refrigerator is operational. Keep knob **B** depressed for approx. 15 seconds and finally release it.



▲ Each refrigerator with manual ignition is equipped with an automatic flame safety valve which interrupts the gas supply after approx. 30 seconds when the flame has extinguished.

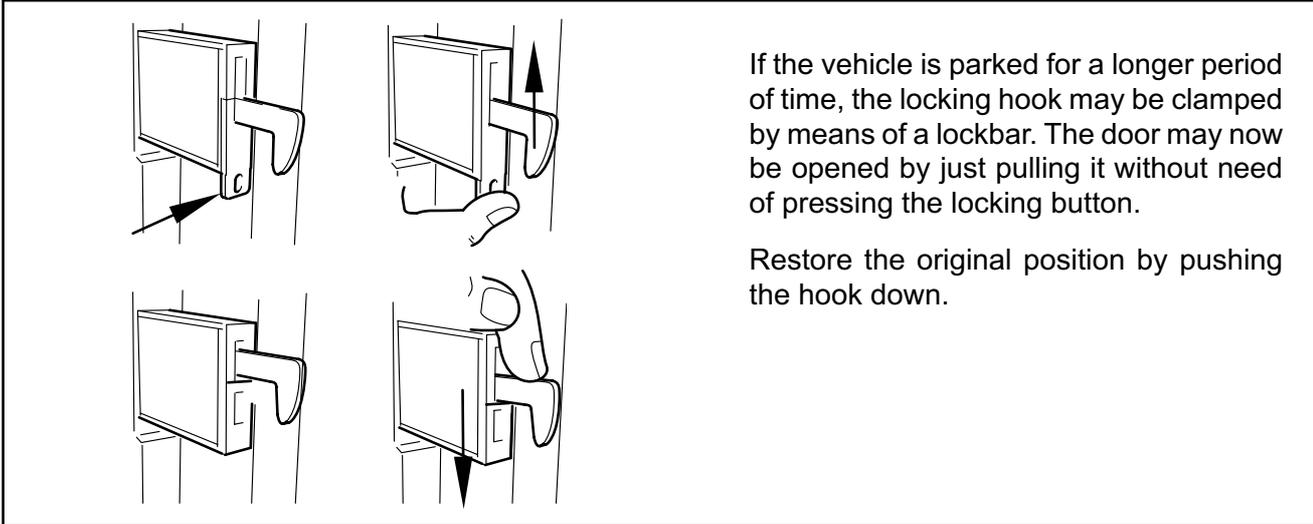
3.9.6 Door locking

Open the door by pressing the locking button and pull open.

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.

Fixing and releasing the door lock hook when parking the vehicle



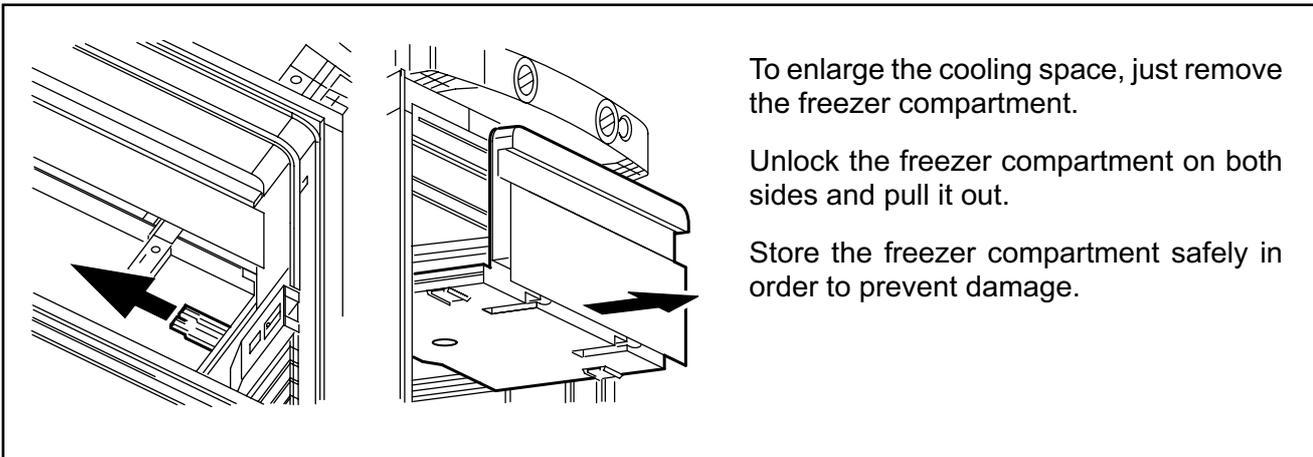
If the vehicle is parked for a longer period of time, the locking hook may be clamped by means of a lockbar. The door may now be opened by just pulling it without need of pressing the locking button.

Restore the original position by pushing the hook down.



▲ As a basic rule, shut and lock the refrigerator door before commencing your journey.

3.9.7 Removable freezer compartment

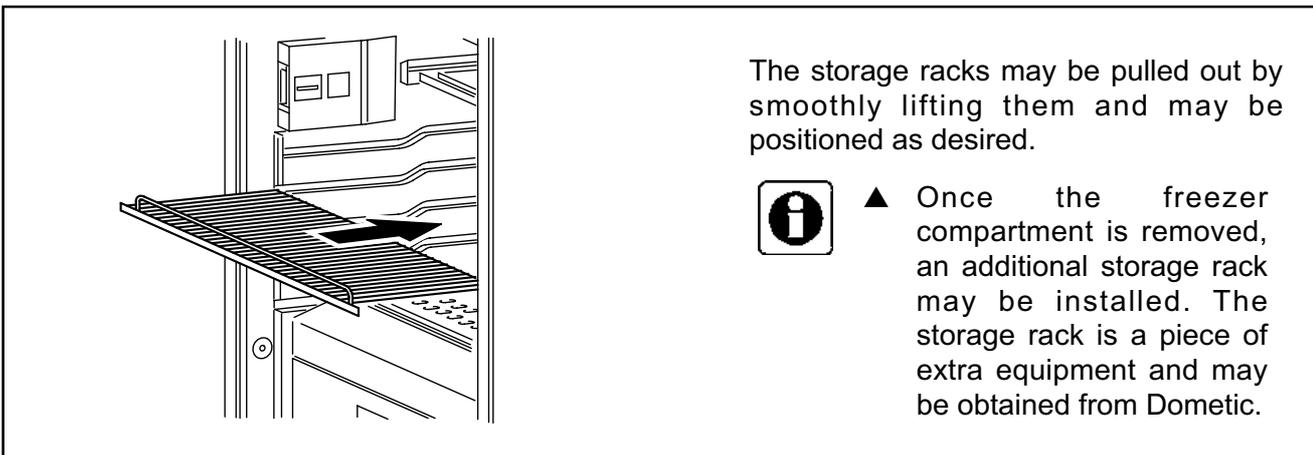


To enlarge the cooling space, just remove the freezer compartment.

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

Store the freezer compartment safely in order to prevent damage.

3.9.8 Positioning the storage racks

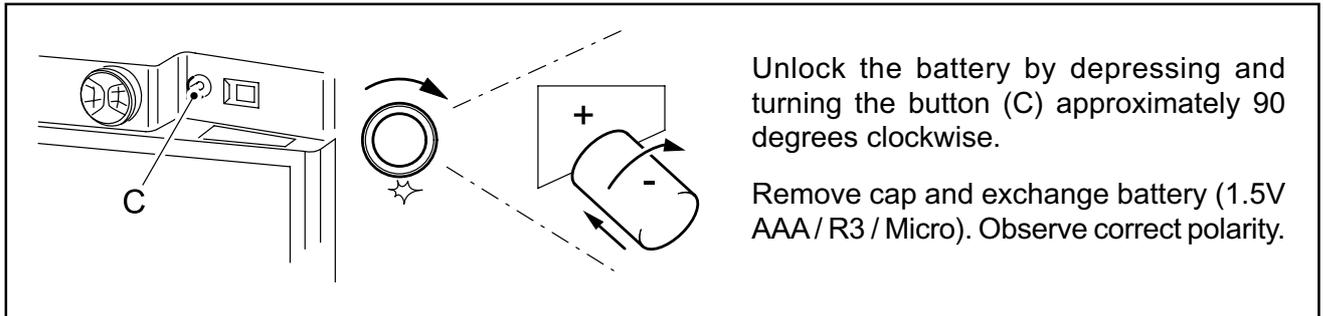


The storage racks may be pulled out by smoothly lifting them and may be positioned as desired.



▲ 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 from Dometic.

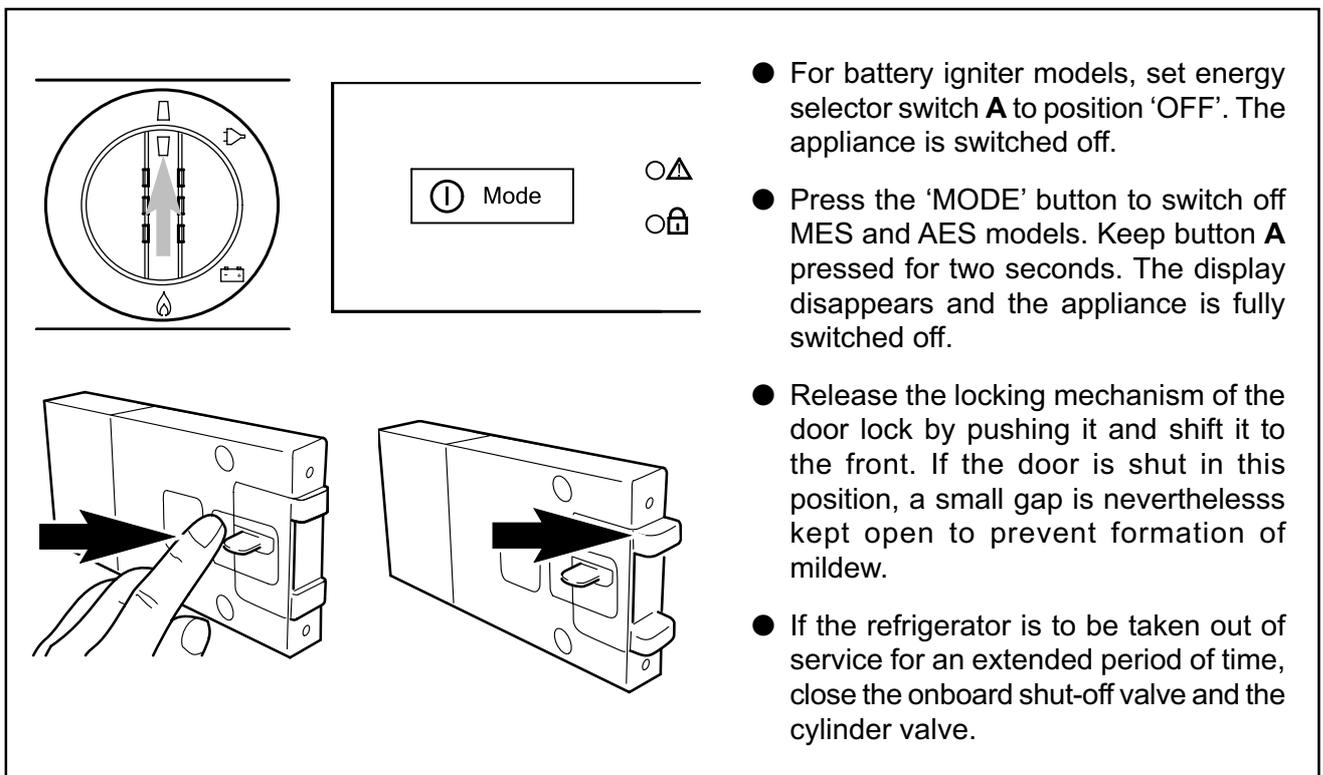
3.9.9 Exchange of the igniter's battery



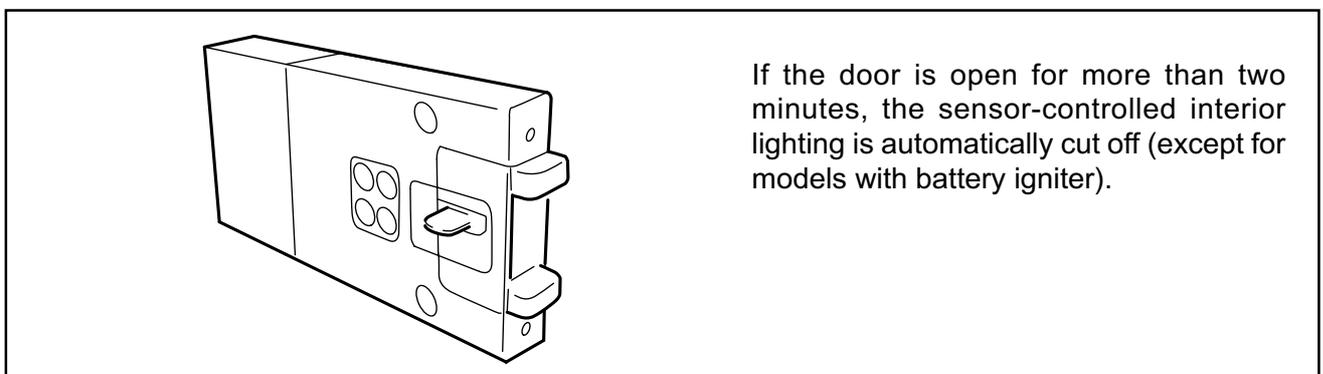
Unlock the battery by depressing and turning the button (C) approximately 90 degrees clockwise.

Remove cap and exchange battery (1.5V AAA/R3/Micro). Observe correct polarity.

3.9.10 Shutting off the refrigerator



3.9.11 Lighting



3.9.12 Storing food and making ice cubes

3.9.13 Storing food in the cooling compartment

- Switch the refrigerator on approx. 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 products.
- Products 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 sun light. 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 grilles free from obstructions.

3.9.14 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 food. It is not suitable as a means of freezing foods.



- ▲ 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 melt.

3.9.15 Making ice cubes

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

1. Fill the ice cube tray with drinking water.
2. Place the ice cube tray in the freezer compartment.



- ▲ Only use drinking water!

3.9.16 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 3 mm thick, the refrigerator should be defrosted.

- Switch off the refrigerator, as described in section “Shutting off the refrigerator”.
- Remove all food and the ice cube 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.



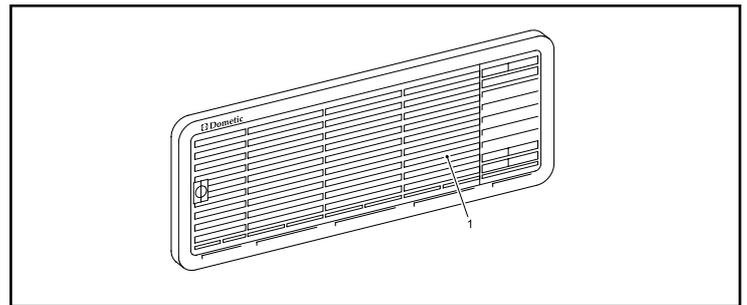
- ▲ Water thawing in the main compartment of the refrigerator runs into an appropriate container at the back of the refrigerator. From there, the water evaporates.



- ▲ The layer of ice must never be removed forcibly, nor may defrosting be accelerated using a heat source!

3.9.17 Winter operation

In winter, check that the ventilation grilles and the exhaust duct system (1) have not been blocked by snow, leaves, etc.



3.9.18 Troubleshooting

Before notifying the authorised Service Centre, please check whether:



- ▲ The instructions in the section “Operating the refrigerator” have been followed.
- ▲ The refrigerator is level.
- ▲ It is possible to operate the refrigerator with any available power source.

Failure: The refrigerator does not cool sufficiently.

Possible cause

- a) Inadequate ventilation to the unit.
- b) Thermostat setting is too low.
- c) The condenser is heavily frosted.
- d) Too much warm food has been stored inside within short period of time.
- e) The appliance has been running for only a short period of time.
- f) Ambient temperatures too high.

Action you can take

- a) Check that the ventilation grilles are not covered.
- b) Set thermostat to a higher level.
- c) Check that the refrigerator door closes properly.
- d) Allow warm food to cool down before storage.
- e) Check whether the cooling compartment works after approximately 4-5 hours.
- f) Regularly remove ventilation grilles.

Failure: The refrigerator does not cool in gas operation mode.

Possible cause

- a) Gas cylinder empty.
- b) Is the supply shut-off device open?
- c) Air in the gas pipe?

Action you can take

- a) Change gas cylinder..
- b) Open the shut-off device.
- c) Switch off the appliance and start again. Repeat this procedure 3-4 times, if necessary.

Failure: The refrigerator does not cool in 12V operation.

Possible cause

- a) On-board fuse defective.
- b) On-board battery discharged.
- c) Engine not running.
- d) Heating element defective (please also refer to failure indication).

Action you can take

- a) Fit new fuse.
- b) Check battery, charge it.
- c) Start engine.
- d) Please inform the Dometic Customer Services.

Failure: The refrigerator does not cool in 230V operation.

Possible cause

- a) On-board fuse defective.
- b) No connection to supply voltage.
- c) AES: gas operation despite connection to the supply voltage?
- d) Heating element defective (please also refer to failure indication).

Action you can take

- a) Fit new fuse.
- b) Establish power connection.
- c) Appliance switches to gas operation due to insufficient supply voltage (automatically switches back to 230V operation).
- d) Please inform Dometic Customer Services.

3.9.20 Maintenance

- Works on gas components and electrical installation may only be carried out by authorised personnel. We recommend to contact your Dometic Service Centre.

- EN 1949 stipulates that the appliance's gas equipment and its associated fume system must be inspected after installation and a certificate issued.

Afterwards a qualified technician must inspect according to EN 1949 every two years and a certificate issued.

It is the user's responsibility to arrange for inspections after purchase.

- It is recommended that the gas burner be inspected and cleaned as necessary at least once a year.

We recommend maintenance following an extended shutdown of the vehicle.

3.10 Thetford Cassette C262 CWE Toilet

3.10.1 Introduction

The Thetford Cassette Toilet is a high quality product. The toilet forms an integral part of your Leisure Home bathroom, thanks to its functional design which combines modern styling and ease of use.

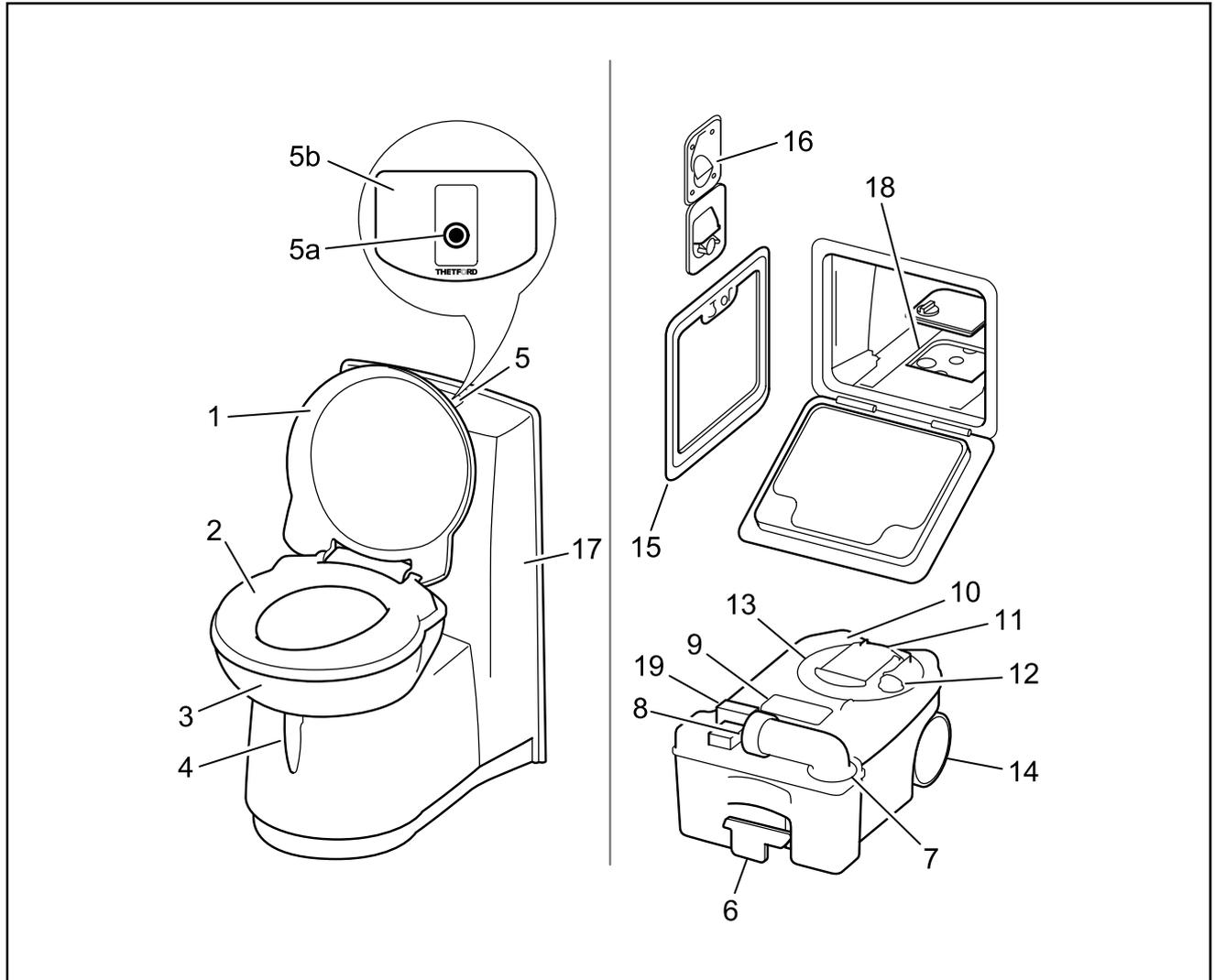
The C-260 Cassette Toilet is manufactured from high quality synthetic materials which makes it a durable, user and maintenance friendly toilet.

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 Leisure Home. The Thetford Cassette Toilet is the solution to the sanitary problem in your Leisure Home.

The operating instructions cover Thetford Cassette Toilet C262 CWE

PARTS

- | | |
|---|-------------------------------------|
| 1. Cover | 10. Vent button |
| 2. Seat | 11. Sliding cover |
| 3. Swivelling toilet bowl | 12. Blade opener |
| 4. Blade handle to open and close blade | 13. Waste holding tank mechanism |
| 5. Control panel | 14. Wheel |
| 5b. Waste holding tank level indicator | 15. Service door |
| 6. Pull handle | 16. Water fill door |
| 7. Pour out spout | 17. Console with flush water tank |
| 8. Cap with measuring cap | 18. Filter for electric ventilator |
| 9. Automatic pressure release vent | 19. Location waste pump- out system |



3.10.2 Preparing for use (standard)

- Open the access door on the outside of your Leisure Home.
- Remove the Waste Holding Tank by pulling the safety catch (which holds the tank in place) upwards.
- Pull the Waste Holding Tank outward to the stop. Tip it slightly and take the tank fully out.
- Place the tank upright and turn the rotating emptying spout upwards. The emptying spout ensures that the tank can be easily and hygienically emptied.
- 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. Screw the cap back onto the emptying spout and turn back to its original position.



- ▲ The Emptying Spout Measuring Cap is supplied inside the toilet.



- ▲ 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. The lip seal is the water tight seal around the top of the tank.

- Slide the Waste Holding Tank back into its original position via the access door. Make sure that it is secured with the safety catch. Close the access door and lock it. Your Thetford toilet is now ready to use.



- ▲ Never use force if you cannot get the tank back into place easily. This may cause serious damage. If blockage occurs, always check that the blade handle is in the correct position.

- 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 watering can or hose. Your toilet is now ready to use.

3.10.3 Using the toilet (standard)

- 8. Turn the bowl to the desired position with the lid closed and using both hands.
- 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.
- 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.



- ▲ 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 motor home.

3.10.4 Emptying

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

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. Pull the handle up and wheel the Waste Holding Tank to an authorised waste disposal point. 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.

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

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.

3.10.5 Emptying with Optional Features

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.



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

3.10.6 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.



- ▲ 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 forming in your toilet bowl, add a correct dosage of Aqua Rinse in your flush water tank.

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

3.10.7 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 the Thetford's Cassette Tank Cleaner, which is 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.

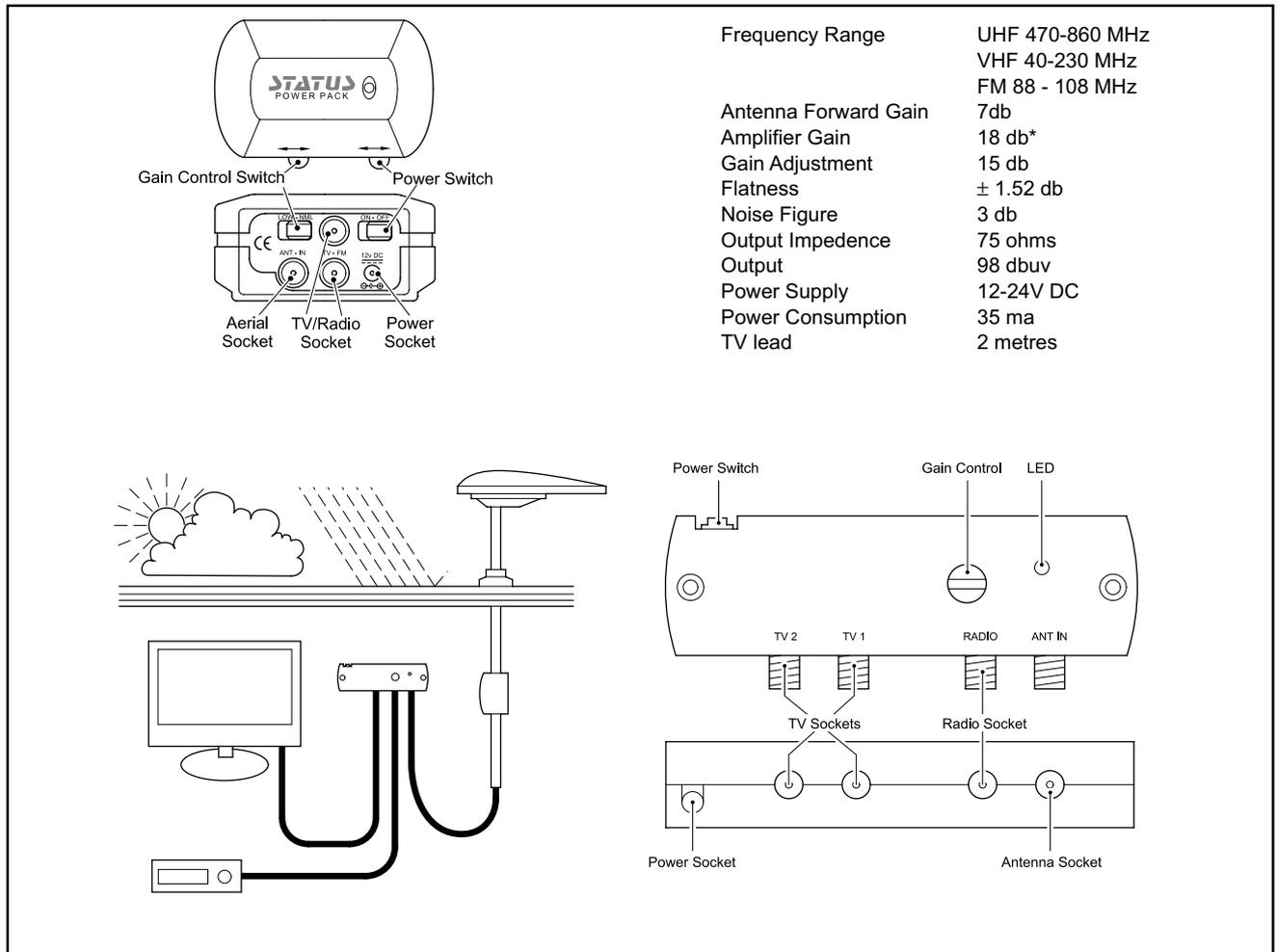


- ▲ Never use Vaseline or any vegetable oil except olive oil. These may cause leakage or malfunction. The lip seal is a part of the toilet that is subject to wear. Depending upon the extent and manner of use, the seals will become less effective and will need replacing periodically.

3.10.8 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.

3.11 STATUS 530 DIRECTIONAL TELEVISION & FM RADIO ANTENNA



3.11.1 Operating the System

Firstly determine the approximate location of the nearest transmitter and whether the signals are horizontally or vertically polarised. For assistance ask your site operator or check other antennas in the vicinity.

1. Loosen the Mast Locking Collar and Wall Bracket and raise the antenna. Turn the mast to direct the antenna towards the TV transmitter. The RED SPOT on the bottom of the mast indicates the front of the Antenna.
2. When receiving vertically polarised signals, rotate the Winder anti-clockwise to cant the antenna through 90°. DO NOT over tighten or use undue force on the winder.



DO NOT cant for vertically polarised signals with the TELESCOPICS EXTENDED.

3. Switch ON the power pack and the red LED will illuminate.
4. Check the gain control switch is set to maximum. For maximum rotate clockwise.
5. Tune your television into the strongest signal. You may need to adjust the direction of the mast to achieve the best picture quality.
6. Secure by tightening the Mast Locking Collar and Wall Bracket.

3.11.2 VHF Television Reception (Overseas Only)

1. Extend the two telescopic antennas.
2. Tune your Television into the strongest signal. You may need to adjust the direction of the Antenna to achieve the best picture quality.
3. For fine tuning of VHF you may also need to adjust the length of the telescopics.



▲ IMPORTANT

VHF TV transmissions are ONLY horizontally polarised.

3.11.3 Fault Finding

The following are some of the key areas we suggest you check which generally solve the most common problems encountered with the operation of the Status antenna.

Coaxial Plugs

It is critical that all coaxial plugs in the system are fitted correctly. Please check each individual plug ensuring it is wired correctly. Secondly please ensure only quality plugs have been used.

Coaxial Cable

Sharp bends, kinks and hot surfaces can easily damage coaxial cable and should be avoided. An inspection of the cable routing is recommended to ensure all is correct. Coaxial cable, if placed in close proximity to electrical cables, transformers or other pieces of electrical equipment, may pick up electrical interference causing picture quality to deteriorate, especially in poor reception areas. Excess cable should be removed and NOT coiled as this may cause picture distortion.

Gain Control

In normal use the button should be rotated clockwise for maximum. In strong signal areas the amplification may need to be reduced. To reduce amplification rotate the button anti-clockwise until the picture quality improves. The button rotates through 270 degrees from MAX to MIN.

Red LED Light

Should the LED on the Amplifier not light firstly check there is power to the unit. Secondly check the polarity is correct. Otherwise contact ourselves for further assistance.

If the LED is still not lit, contact our office for further assistance.

Short Hook up Test

Using your TV Fly Lead and adapter plugs connect your TV direct to the Amplifier, plugging into one of the TV sockets.

Ensure the Antenna Dome is plugged directly into the 'Ant-IN socket of the Amplifier and switch on. Tune in your TV for the strongest signal.

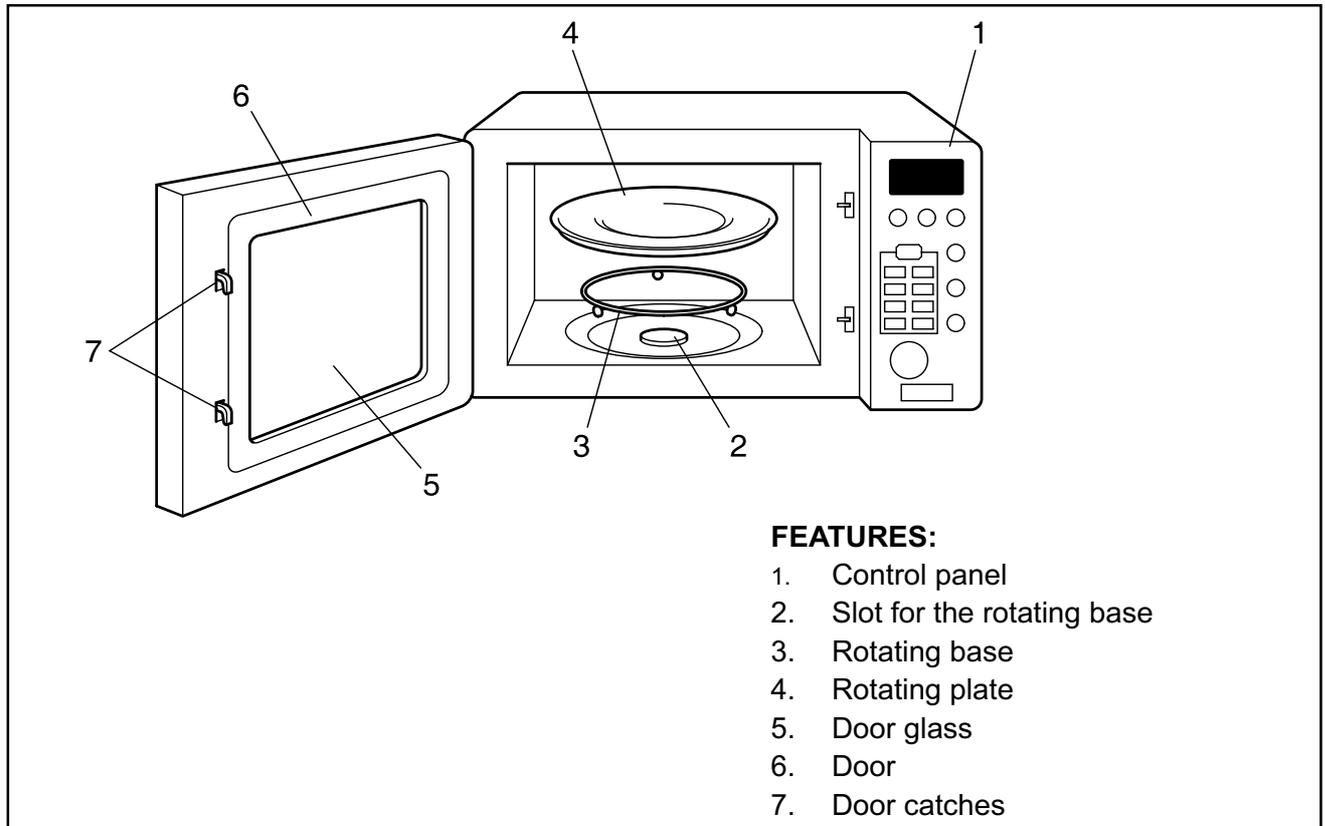
Antenna Dome Coaxial Cable

Check the routing of the coaxial cable from the Antenna Dome to the Power Pack. Check to ensure there are no kinks or trapped cable or if there are loops of surplus cable which could be affecting performance.



- ▲ It is the responsibility of the caravan owner to make sure that the directional aerial is fully retracted before the caravan is moved. Any damage as a result of neglect, i.e. not retracting the aerial, caused by crash damage, vandalism or incorrect operation will NOT be covered by the manufacturers warranty.

3.12 Baumatic Microwave



3.12.1 General Information

- This appliance is designed for domestic household use.
- You should only operate the appliance when the rotating plate and rotating base are in position.
- You should only use ovenware that is suitable for being used in a microwave.
- To prevent corrosion occurring due to moisture/condensation, the cavity and the door of the microwave should be wiped dry after each use of the appliance.
- The appliance must not be left unattended if you are heating or cooking food in containers that are made of paper, plastic or other flammable materials. If left unattended, they could pose a fire hazard.
- If you notice smoke coming from the appliance, you should keep the door of the microwave closed and then disconnect it from your mains supply. DO NOT use your microwave oven, if you think it is not operating correctly.

3.12.2 Warning and safety instructions



- ▲ This appliance complies with all current European safety legislation. Baumatic do wish to emphasise that this compliance does not remove the fact that the appliance surfaces will become hot during use and retain heat after operation.
- ▲ DO NOT place anything between the door and the door frame.
- ▲ DO NOT store anything that is flammable inside of the microwave. When it is switched on, the items could catch fire.
- ▲ DO NOT switch the appliance on if there is no food or liquid inside of the microwave. If you run the microwave whilst it is empty, there is a chance that it will overload.
- ▲ The door seals and the door surfaces should ALWAYS be kept clean and free from debris.

3.12.3 Child Safety

- Baumatic strongly recommend that babies and young children are prevented from being near to the appliance and not allowed to touch the appliance at any time.
- If it is necessary for younger family members to be in the kitchen, please ensure that they are kept under close supervision at all times.



- ▲ **IMPORTANT:** This appliance should only be operated by adults. You SHOULD NOT allow young children to use the microwave without supervision. Older children should only operate the appliance if they have been thoroughly instructed on how to use the microwave and the consequences of improper usage.

3.12.4 General Safety



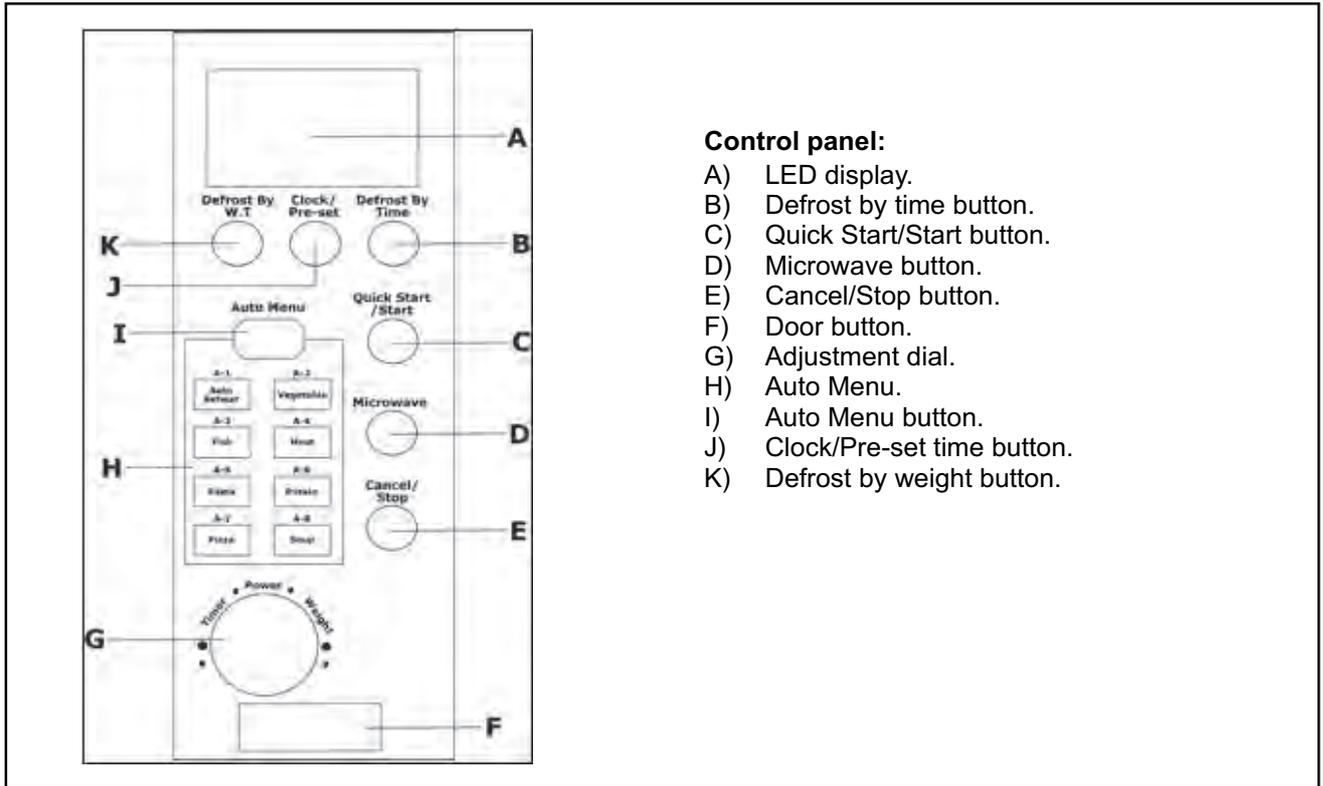
- ▲ Do not allow electrical fittings or cables to come into contact with areas on the appliance that get hot.
- ▲ Do not use the appliance to heat the room it is located in.
- ▲ Do not use the appliance to dry paper, textiles or animals.
- ▲ Do not install the appliance next to curtains or soft furnishings.
- ▲ Do not use the appliance to heat unopened cylinders or cans etc.
- ▲ Do not heat cooking oil or liquid containing alcohol, as there is the chance of spontaneous combustion.
- ▲ Do not boil eggs or similar foods in their shells, otherwise they may burst. It is possible to poach eggs in your microwave, providing you prick the yolks first.
- ▲ Do not attempt to lift or move cooking appliances by using the oven door, as this may cause damage to the appliance or result in injury to the person lifting the appliance.

3.12.5 Cleaning

- Cleaning of the oven should be carried out on a regular basis.
- Great care should be taken whilst using this appliance and when following the cleaning procedure.

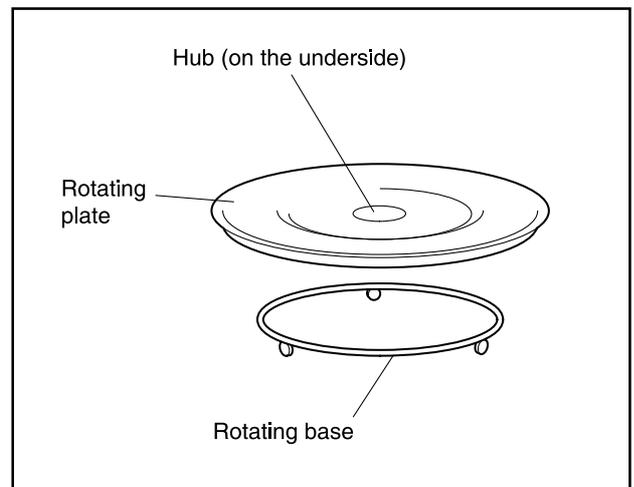


- ▲ **IMPORTANT:** The appliance must be disconnected from the mains before following the cleaning procedure.



3.12.6 The turntable

- Never place the rotating plate upside down.
- The rotating plate and rotating base MUST always be used during cooking.
- All food and food containers must ALWAYS be placed on the rotating plate during cooking.
- If the rotating plate or rotating base cracks or breaks, it must be replaced immediately. Genuine Baumatic parts can be obtained from the Baumatic Spares Department. Numbers for Baumatic can be found in the back of this handbook.



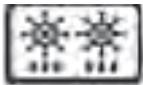
3.12.7 LED display

- The LED display will show the time of day, or if the microwave is in use, it will show the cooking time.





Indicates that microwave cooking is taking place.



Indicates that defrosting is taking place.



Indicates that a high power level is selected.



Indicates that a low power level is selected.



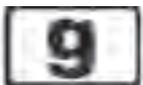
Indicates that the time of day is shown on the display.



Indicates that the safety lock is engaged.



Indicates that the auto menu function has been selected.



Indicates that grams are shown on the LED display.



Indicates that millimetres are shown on the LED display.

3.12.8 Setting the clock

- When your appliance is connected to the power supply for the first time, the LED display (A) will show 0.00 and an audible signal will sound once.
- Press the Clock/Pre-set time button (J), the hour digits will flash.
- Use the adjustment dial (G) to adjust the hour time.
- Press the Clock/Pre-set time button (J) to confirm the hour time. The minute digits will flash.
- Use the adjustment dial (G) to adjust the minute time.
- Press the Clock/Pre-set time button (J) to confirm the minute time. The “:” symbol will flash and the time of day will light on the LED display (A).

3.12.9 Before first use

- To remove any residue from the oven that may have been left from the manufacturing process, you should place a cup that is half filled with water in the microwave.
- Set the microwave on its highest power level for 2 minutes.
- The oven cavity and outside of the appliance should be cleaned with warm soapy water, using either a sponge or soft cloth. No abrasive cleaners should be used. The appliance should be thoroughly dried afterwards.

3.12.10 Cooking food

- Once the clock has been set, your microwave is then ready to use.
- Use the door button **(F)** to open the door of the microwave.
- Check that the rotating base and rotating plate are correctly assembled in the slot for the rotating base.
- Place whatever you are cooking in the centre of the microwave cavity and then close the microwave door.



▲ **IMPORTANT:** You should make sure that the door of the microwave is shut securely.

- Press the microwave button **(D)** and the LED display **(A)** will show “P100”, indicating that the appliance will cook at its highest power level.
- To adjust the power level, turn the adjustment dial **(G)**.
- Once the power level that you require appears on the LED display **(A)**, press the microwave button **(D)** again.
- Turn the adjustment dial **(G)** to set the cooking time that you require. The maximum cooking time that you can set is 95 minutes.
- Press the Quick Start/Start button **(C)** and your microwave will start to heat.
- If you have set the incorrect power level or time, press the Cancel/Stop button **(E)** and the LED display **(A)** will return to showing the time of day.
- At the end of the cooking time, your microwave will give an audible signal and the LED display **(A)** will return to showing the time of day.
- Use the door button **(F)** to open the door of the microwave.



▲ **IMPORTANT:** The inside of the microwave and the food that you have been cooking maybe extremely hot and care should be taken when removing items from the microwave. We would recommend that you use an oven glove.

- After the food has been removed from the microwave, you should make sure that the door is closed.

3.12.11 Quick start

- If you want to cook on the highest power level setting for a period of time, then you can use the Quick Start/Start button **(C)**.
- Press the Quick Start/Start button **(C)** once and your microwave will operate on full power for 1 minute.
- Each time you press the Quick Start/Start button **(C)** the cooking time will increase by 1 minute.

3.12.12 Microwave power level chart

Power	High	Medium high	Medium	Medium low	Low
Display shows	P100	P80	P50	P30	P10

3.12.13 Time setting chart

When you are setting a cooking time, the clock will count in the following time intervals.

Time period being set	Time intervals
0 - 1 minute	5 seconds
1 - 5 minutes	10 seconds
5 - 10 minutes	30 seconds
10 - 30 minutes	1 minute
30 - 95 minutes	5 minutes

3.12.14 Interrupting a cooking cycle

- If you wish to temporarily interrupt a cooking cycle when it is in progress (for example to stir what you are heating), you should press the door button **(F)**.
- The door of the microwave will open and it will stop heating immediately.
- To restart the cooking cycle, close the microwave door and then press the Quick Start/Start button **(C)**.

3.12.15 Cancelling a cooking cycle

- If you wish to cancel a cooking cycle when it is in progress, you should press the Cancel/Stop button **(E)**.
- The microwave will stop heating immediately, give an audible signal and the LED display (A) will return to showing the time of day.
- Use the door button (F) to open the door of the microwave.



▲ **IMPORTANT:** The inside of the microwave and the food that you have been cooking may be extremely hot. So care should be taken when removing items from the microwave.

- After the food has been removed from the microwave, you should make sure that the door is closed.

3.12.16 Enquiry mode

- Whilst the microwave is in use, the LED display **(A)** will countdown the cooking time that you have set.
- To check the power level that the microwave is cooking at, press the microwave button **(D)** and the power level will appear on the LED display **(A)** for a few seconds.
- To check the time of day, press the Clock/Pre-set button **(J)** and the time of day will flash on the LED display **(A)** for a few seconds.

3.12.17 Defrost by time

- Press the defrost by time button **(B)** and the LED display **(A)** will show “dEF2”.
- Turn the adjustment dial **(G)** to set the defrost time that you require.
- Press the Quick Start/Start button **(C)** and your microwave will start to defrost the food.

3.12.18 Defrost by weight

- Press the defrost by weight button **(K)** and the LED display **(A)** will show “dEF1”.
- Turn the adjustment dial **(G)** to select the weight of the food that you want to defrost. The letter “g” will appear on the LED display **(A)** to indicate grams.
- The microwave will automatically calculate the defrost time, based on the weight that you have selected.
- Press the Quick Start/Start button **(C)** and your microwave will start to defrost the food.

3.12.19 Setting multiple cooking phases

- It is possible to set the microwave to cook at different power levels within a single cooking time. A maximum number of 3 cooking phases can be set at once.
- Press the microwave button **(D)** and set the power level for the first cooking phase, using the adjustment dial **(G)**.
- Once the power level that you require for the first phase appears on the LED display **(A)**, press the microwave button **(D)** again.
- Turn the adjustment dial **(G)** to set the cooking time for the first cooking phase.
- Press the microwave button **(D)** and then follow the same procedure for the second cooking phase and third cooking phase (if required).
- Press the Quick Start/Start button **(C)** and the microwave will proceed with the cooking phases that you have set.
- If you have set the incorrect power level or time, press the Cancel/Stop button **(E)** and the LED display **(A)** will return to showing the time of day.
- At the end of the cooking time, your microwave will give an audible signal and the LED display **(A)** will return to showing the time of day.

3.12.20 Setting a cooking time in advance

- This function will allow you to set a time in the future that the microwave will switch on at.



- ▲ **IMPORTANT:** You must make sure that the clock is set to the correct time before using this feature.

- Press the microwave button **(D)** and then use the adjustment dial **(G)** to set the power level that you require.
- Press the microwave button **(D)** again and then use the adjustment dial **(G)** to set the cooking time that you require.



- ▲ **IMPORTANT:** Do not press the Quick Start/Start button **(C)** at this point, otherwise the microwave will start to heat straight away.

- Press the Clock/Pre-set time button **(J)**, the hour digits will flash.
- Use the adjustment dial **(G)** to set the hour time that you want the microwave to switch on at.
- Press the Clock/Pre-set time button **(J)** to confirm the hour time. The minute digits will flash.
- Use the adjustment dial **(G)** to set the minute time that you want the microwave to switch on at.
- Press the Quick Start/Start button **(C)** to confirm all settings.
- When the time of day that you have programmed is reached, the microwave will bleep twice and then the microwave will start cooking automatically.



- ▲ **IMPORTANT:** If the microwave door is not shut when the time of day that you have programmed is reached, then cooking will not commence.

- ▲ **IMPORTANT:** Although your microwave has a set in advance time feature, we do not recommend that the microwave is EVER programmed to switch on when it is unattended.

3.12.21 Auto menu function

- Your microwave has menus pre-programmed into it, where it will cook particular types of food on pre-set power levels and for pre-set periods of time.
- Press the auto menu button **(I)** to access the auto menu function, the LED display **(A)** will show "A-1".
- Turn the adjustment dial **(G)** to select the food type that you want to cook.
- Press the auto menu button **(I)** to confirm the food type.
- Turn the adjustment dial **(G)** to select the weight of the food that you want to cook. The letter "g" will appear on the LED display **(A)** to indicate grams.
- Press the Quick Start/Start button **(C)** and your microwave will start to heat. The gram symbol will go out and the cooking time will start counting down on the LED display **(A)**.

3.12.22 Auto menu chart

Auto menu	Weight	Display
A-1 Auto reheat	200 g	200
	400 g	400
	600 g	600
A-2 Vegetable	200 g	200
	300 g	300
	400 g	400
A-3 Fish	250 g	250
	350 g	350
	450 g	450
A-4 Meat	250 g	250
	350 g	350
	450 g	450

Auto menu	Weight	Display
A-5 Pasta	50 g (with cold water 450 g)	50
	100 g (with cold water 800 g)	100
A-6 Potato	200 g	200
	400 g	400
	600 g	600
A-7 Pizza	200 g	200
	400 g	400
A-8 Soup	200 ml	200
	400 ml	400

3.12.23 Safety lock

- When the microwave is not heating, it is possible to switch on the safety lock.
- Press and hold down the Cancel/Stop button (E) for 3 seconds.
- The microwave will emit a long audible signal and the LED display (A) will display a padlock symbol.
- Until the safety lock is switched off, all buttons on the microwave will be disabled.
- To switch off the safety lock, press and hold down the Cancel/Stop button (E) for 3 seconds. The microwave will emit a long audible signal and the padlock symbol will disappear from the LED display (A).

3.12.24 Microwave cooking guidelines

- If the food you are cooking has a skin or peel (e.g. sausages, tomatoes, potatoes etc), then you should pierce the skin or peel with a fork. This will ensure that if steam is created during the heating process, it can escape and the food will not burst.
- When heating baby food, the cylinder or jar containing the food should NEVER have a top or lid on. After cooking, to ensure that the food has been heated uniformly, you should stir or shake the food.



▲ IMPORTANT: You must check the temperature of the food before feeding it to a child.

- When heating food in a microwave, it will transmit the heat to the container that the food is in or on. You should ALWAYS use oven gloves when removing items from the microwave.
- You should make sure that you do not cook food for too long or at too high a power level. This could cause certain areas of the food to dry out or even ignite.
- You should not use ceramic or porcelain crockery, or porous earthenware inside your microwave. These dishes could absorb moisture from the food whilst it is cooking, which could cause pressure to build up and shatter the dish.
- If you are heating certain foods and any liquid, moisture will evaporate and condensation may occur. This does not indicate that the appliance is faulty and it can be particularly noticeable if the ambient temperature of the room is high.



▲ IMPORTANT: Any condensation should be wiped up with a soft cloth as soon as you have finished using the microwave.

- After the cooking time has completed, you should let the food stand for a few minutes. This is called “standing time” and will allow the heat generated by the microwave to spread evenly throughout the food.

3.12.25 Materials you can use in a microwave oven

Material	Remarks
Aluminium foil	To be used for shielding only. Small smooth pieces can be used to cover thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to the cavity walls. The foil should be at least 2.5 cm away from the cavity walls.
Browning dish	Follow the manufacturer's instructions. The bottom of the browning dish must be at least 5 mm thick above the turntable. Incorrect usage may cause the turntable to break.
Dinnerware	Microwave-safe only. Follow the manufacturer's instructions. Do not use cracked or chipped dishes.
Glass jars	Always remove the lid. Use only to heat food until just warm. Most glass jars are not heat resistant and may break.
Glassware	Heat-resistant oven glassware only. Make sure there is no metallic trim. Do not use cracked or chipped dishes.
Oven cooking bags	Follow the manufacturer's instructions. Do not close with a metal tie. Make slits in the bag to allow steam to escape.
Paper plates and cups	Use for short-term cooking/warming only. Do not leave the oven unattended whilst cooking.
Paper towels	Use to cover food for reheating and absorbing fat. Use under supervision and for short-term cooking only.
Parchment paper	Use as a cover to prevent splattering or as a wrap for steaming
Plastic	Microwave-safe only. Follow the manufacturer's instructions. It should be labelled as "microwave safe". Some plastic containers soften as the food inside gets hot. "Boiling bags" and tightly closed plastic bags should be slit, pierced or vented, as described by the package.
Plastic wrap	Microwave-safe only. Use to cover food during cooking to retain moisture. Do not allow the plastic wrap to touch the food.
Thermometers	Microwave-safe only. Meat and candy thermometers.
Wax paper	Use as a cover to prevent splattering and to retain moisture.

3.12.26 Materials not to be placed in a microwave oven

Material	Remarks
Aluminium tray	May cause arcing. Transfer food into a microwave-safe dish.
Food carton with metal handle	May cause arcing. Transfer food into a microwave-safe dish.
Metal or metal-trimmed utensils	Metal shields the food from microwave energy. The metal trim may cause arcing.
Metal twist ties	May cause arcing and could cause a fire in the oven.
Paper bags	May cause a fire in the oven.
Plastic foam	Plastic foam may melt or contaminate the liquid inside when exposed to a high temperature.
Wood	Wood will dry out when used in the microwave oven and may split or crack.



- ▲ Cleaning operations must only be carried out when the oven is cool.
- ▲ The appliance should be disconnected from your mains supply before commencing any cleaning process.

3.12.27 The appliance exterior

- You should wipe over the front of the appliance with a soft cloth and warm water mixed with a little washing-up liquid.



- ▲ DO NOT use abrasive cleaners or sharp objects to clean the front surface of the microwave.

3.12.28 The appliance interior

- You should wipe over the inside of the appliance with a soft cloth and warm water mixed with a little washing-up liquid.
- You should pay particular attention to the door seal and the surrounding area.



- ▲ DO NOT use abrasive cleaners or sharp objects to clean the inside of the microwave.

3.12.29 Turntable and turntable support

- The rotating base and rotating plate should be removed from the microwave for cleaning purposes after each use.
- Clean the rotating base and rotating plate in warm water mixed with a little washing up liquid.

3.12.30 General cleaning advice

- ▲ **IMPORTANT:** Any condensation should be wiped up with a soft cloth as soon as you have finished using the microwave.
- To remove odours from inside of the microwave, you should boil one cup of water mixed with several tablespoons of lemon juice inside of the cavity.
- The microwave should be thoroughly cleaned before it is operated for the first time and after each use. This will avoid residual food stuffs becoming baked on the oven cavity. After residues have been baked on several times, they are far more difficult to remove.
 - ▲ Never clean the oven surfaces by steam cleaning.
- If you use any form of oven cleaner on your appliance, then you must check with the manufacturer of the cleaner that it is suitable for use on your appliance.
- Any damage that is caused to the appliance by a cleaning product will not be fixed by Baumatic free of charge, even if the appliance is within the guarantee period.

3.12.31 Troubleshooting

- The microwave will not switch on.
 - Check that the appliance has been connected to the mains supply correctly.
 - Check that the fuse in the moulded plug has not blown.
 - Check that the fuses in your fuse box have not blown.
 - If fuses blow on a regular basis, then we would recommend that you consult with a qualified electrician.
 - Check that there has not been a power cut.
- The microwave will not start cooking.
 - Check that the door is properly shut.
 - Check that the door seal and surrounding areas are clean.
- The turntable is not turning.
 - Check that the rotating base is connected to the drive motor correctly.
 - Check that the ovenware is not larger than the rotating plate.
 - Check that the food you are cooking does not extend beyond the rotating plate.
 - Check that there is nothing underneath the rotating base that is preventing it from turning.
- The microwave does not switch off.
 - Isolate the microwave from your mains supply and then contact the Baumatic Customer Care Department.
- The interior light bulb is not working.
 - Call the Baumatic Customer Care Department. The interior light bulb can only be replaced by a trained service technician.

- My food is not cooking properly.
 - Check that the power level and cooking time that you have set, is appropriate for the food that you are cooking.
 - If you are cooking a double amount of food, then you will normally need to almost double the cooking time.
 - If the food that you have placed in the cavity is colder than normal, then the power level and cooking time may need to be increased.
- I am getting condensation in my oven.
 - Steam and condensation are a natural by product of cooking in a microwave.
 - Do not leave food in the oven to cool after it has been cooked and the oven has been switched off.
 - Use a covered container, where practical, when cooking to reduce the amount of condensation that forms.
 - You should wipe over any condensation that has formed, as soon as the food has stopped cooking.



▲ **WARNING!** If your appliance appears not to be operating correctly, then you should disconnect it from your mains supply and then contact Baumatic Customer Care on telephone number (0118) 933 6911.

DO NOT ATTEMPT TO REPAIR THE APPLIANCE YOURSELF.

4.1 GENERAL MAINTENANCE

4.1.2 Acrylic Windows

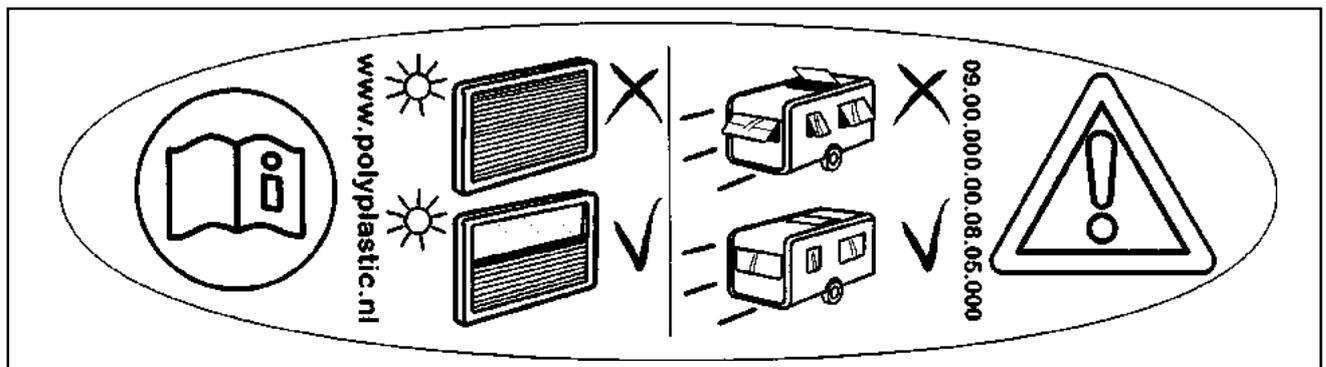
The windows fitted to your Bailey Leisure Home are manufactured from high quality acrylic using the latest plastic processing methods.

For cleaning, use only generous amounts of water to wash away dust and road grit etc. Then use a soft cloth and warm soapy water and gently remove the remaining dirt. Avoid abrasive cleaning materials and detergents.

As with all plastic materials, acrylic should not be allowed to come into contact with chemicals such as paint remover, fly spray, acetone, dish washer detergent and car cleaning detergent.



- ▲ Never polish with a dry cloth.
- ▲ During high sun do not close the window blinds completely and open the windows into the ventilation position.
- ▲ While the caravan is in motion please ensure that the windows are fully closed (this information is also detailed on the stickers in the windows).



- ▲ Dependant on the temperature inside the caravan to that outside, condensation may be experienced between the window panes. This is a perfectly normal occurrence as the windows are not sealed units. To disperse condensation remove the small bungs, using a pair of blunt end tweezers, in the corners of the window unit (preferably on a warm day) until the condensation disperses and then replace the bungs.

4.1.3 Window Catches and Stays

Turn catch arm to the vertical position to open. A night vent position is available by depressing the locking knob and locating the catch into the outer catchplate slot.

The windows are held open by an adjuster knob, tightening off the knob in a clockwise direction will hold the window open in the desired position.

Always ensure knob is unscrewed before closing the window. Failure to do so may cause damage to the window stay arm.



- ▲ Always ensure that windows are fully closed during wet weather and not on night vent setting.

4.1.4 Interior walls

The interior walls have a GRP/PVC lining which should not require cleaning too often. A wipe over with a damp cloth and a very mild detergent is all that is needed to keep it immaculate.

4.1.5 Furniture

Moisture in air can cause damage to furniture as the wood expands or contracts with an increase or decrease in the relative humidity. A relative humidity of between 40% - 60% is tolerable. If values are maintained outside this range for a sustained period damage to the furniture may occur.



- ▲ To prevent damage, assure the relative humidity of air is not too high for a long period by either ventilating the Leisure Home, or by using either a dehumidifiers or water absorbent crystals.

To ventilate your Leisure Home, on dry days open as many windows and roof lights as possible to allow air to move through the vehicle. Try to do this as often as possible (at least once a week), but keep windows and roof lights closed on wet days as damp air may increase indoor humidity.

Humidity levels can also be controlled by reducing the level of activity that generates moisture in the air, e.g. taking showers, cooking and washing dishes.



- ▲ It is recommended that you use protective covers to prevent damage to the furniture surfaces from high temperatures.
- ▲ The use of some detergents or chemical cleaners on your furniture may damage the finish.
- ▲ Do not leave furniture surfaces wet with beads of standing water

4.1.6 Mattresses

Mattresses are made from fire retardant fabric and are C.M.H.R. foam filled.

Cotton print cushion covers are removable for dry cleaning only. (Zips along back edge.)

It is recommended that mattresses be stored on edge during winter.

4.1.7 Care of your upholstery

In the manufacturing of the fabrics used on the soft furnishings of your Leisure Home a silicone coating is applied to help resist dirt and liquids.

However if a liquid is spilt the following actions are required:

- Remove as much excess as possible with a dry clean cloth.
- Sponge the affected area with warm soapy water taking care not to soak the material.
- Leave to dry in normal conditions.

These actions will not affect the FR treatment of the fabric.

Heavy soiling will require professional cleaning.

4.1.8 Curtains

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

4.1.9 Hinges and Catches

Lightly oil occasionally.

4.1.10 Bathroom

Do not expose the bathroom plastic fittings to cleaning products or abrasive material containing concentrated perfumes, body oil, linseed oil, gritty or abrasive substances, solvents (white spirits, anti freeze etc.) These may cause permanent damage to the material. Always clean the bathroom straight away after use with warm soapy water and a soft cloth, stubborn stains may be removed with a solution of lemon juice and water, at a solution of 1 part water to 1 part lemon juice.

4.1.10 Shower/Vanity Units

Care instructions

Exposure of this product to cleaning products or material containing concentrated perfumes, body oils, linseed oil, gritty or abrasive substances, solvents (white spirit, antifreeze etc) may result in permanent damage to the material.

Cleaning should be carried out immediately after use using warm soapy water and a soft cloth. Stubborn stains may be removed using diluted lemon juice.

Theftford bathroom cleaner is suitable for cleaning the shower and vanity unit plastic items (sinks, shower trays, theftford toilets etc).



- ▲ Domestic cleaning products are not to be used to clean the shower/vanity unit plastic items.
- ▲ Some mouth washes can cause plastic items to crack and for this reason should not be used.

4.1.11 Guidance on Cleaning Portable Water Tanks and the Water System and in Leisure Homes

The water systems, and in particular storage tanks, in leisure homes are susceptible to contamination by bacteria if care is not taken with their use and cleaning. The symptoms caused by bacterial contamination are not purely limited to gastro-intestinal diseases, but may also manifest themselves as ear, nose, throat, eye or skin infections. It is therefore important that you carry out the following procedure prior to using the leisure home each time, even if you boil or filter all water you use for drinking.

4.1.12 For Containers

1. All water remaining in the container should be disposed of so that the container is empty. (If the container is an onboard tank, it should be removed if possible.)
2. The outside of the container 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.
3. Water should be put in the container, swirled around by hand and then emptied out.
4. The container should then be totally filled with water containing an appropriate disinfectant/sterilant solution and allowed to stand for the recommended contact time (e.g. Milton for 15 minutes).
5. The solution should be emptied from the container.
6. The opening of the container should be cleaned thoroughly with an appropriate pre-prepared wipe impregnated with a disinfectant/sterilant.

8. The container must be filled with mains water only and mains water only should be used for the above cleaning procedure.
9. On no account should garden hoses be used to fill water tanks.

4.1.13 For Systems

1. Drain down the system. Open all taps and valves to allow air in enabling the system to drain quickly.
2. 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/sterilant solution).
3. Fill the system by using the pump with a disinfectant/sterilant solution. (Check that the solution at full strength appears at all taps/showers.) Allow to stand for the recommended period of time.
4. Drain the system down completely.
5. Thoroughly clean the outside of all taps/connections with a cloth soaked in the disinfectant/sterilant.
6. Flush the system through with clean drinking water until no traces of disinfectant/sterilant can be detected at any tap.
7. Replace the filter

Suitable sterilising chemicals are available from your caravan dealer, accessory shop, chemists or home-brew shops. It is not, however, recommended to use bleach or sodium metabisulphite.

This guidance has been prepared with the kind co-operation and assistance of The Environmental Health Department of The Borough Council of King's Lynn and West Norfolk.

4.1.14 Leisure Home Keys

Each Retreat model is supplied with two standard keys which are for use on all exterior access doors.

4.1.15 Window Blinds (Remibase plus)

The blind system fitted is designed to be maintenance free. However if the blinds need tensioning the cassette must be unscrewed from the wall (one screw at each corner). The cord that operates the tension is secured by a screw. This can be loosened and the tension adjusted.

The blinds should not be kept in the closed position for extended periods (over wintering for example) and should not be closed when the caravan is being towed.

The sunscreen is pulled from the bottom and the fly screen from the top. They will meet at any point desired to give visual privacy and insect protection if the window is open. Alternatively either blind can be closed to the full height of the window

Only non abrasive, solvent free mild detergents should be used with a damp soft cloth if cleaning is required.

4.1.16 Room Divider.

Maintenance should not be required.

To close the divider pull the blind across the doorway and secure the magnet to the metal striking plate.

Only non abrasive, solvent free mild detergents should be used with a damp soft cloth if cleaning is required.

4.1.17 Tecnoform Doors and worktops

Wipe the doors with a soft, slightly damp cloth (not wet) and then dry them with a dry cloth.

Worktops can be wiped with a wet cloth and are more resistant to water than the locker doors.



- ▲ Gasoline, benzene, thinners, any abrasive products, chemically treated dust cloths and detergents may damage the doors and should not be used.

4.1.18 JVC Speakers

The speakers supplied within the habitation compartment of your caravan are JVC Stereo speakers and should be cleaned with a soft cloth and the outer surface wiped gently.



- ▲ DO NOT APPLY ANY SOLVENT TO THE SPEAKERS.

4.1.19 Carpet

Cleaning and Caring for Carpet Sets

- When cleaning the interior of your leisure home 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 product's 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 tumble dryer.

4.2 FIRE AND SAFETY PRECAUTIONS



- ▲ Your attention is drawn to the notice affixed in the Leisure Home advising on fire prevention, ventilation and what to do in case of fire. Ensure that the occupants are familiar with escape routes, in case of a fire.

4.2.1 Children



- ▲ Do not leave children alone in the Leisure Home in any circumstances. When in the caravan ensure that children are supervised at all times. Keep potentially dangerous items out of reach as at home, e.g. matches, medicines etc.

4.2.2 Fire Extinguishers

Provide one dry powder fire extinguisher of an approved type or complying with ISO 7165 of at least 1 kg capacity by the main exit door, and a fire blanket next to the cooker. Familiarise yourself with the instructions on your fire extinguisher and the local fire precaution arrangements.

A fat pan fire should not have an extinguisher aimed at it but be smothered with a fire blanket. It is advisable not to cook with a fat pan or deep fryer in the enclosed space of a caravan.

Extinguishers containing vaporising liquids should not be used by a person inside the caravan or from outside whilst other persons are in the Leisure Home. Dry powder extinguishers will deal with fat or electrical fires and water type extinguishers should not be used for this type of fire.

4.2.3 In Case of Fire

- Get everyone out of the Leisure Home as quickly as possible using whichever exit is quickest including windows. Do not stop to collect any personal items.
- Raise the alarm - Call the Fire Brigade (in the UK dial 999).
- Turn off gas container valve if safe to do so.

4.2.4 Smoke Alarms



- ▲ Your caravan is fitted with a smoke alarm. The operation of the alarm should be tested after the vehicle has been in storage, before each trip and at least once per week during use.

4.2.5 Ventilation

All ventilation complies with EN 721 and vents should not be obstructed in any manner as this could lead to insufficient fresh air. In this case the confined atmosphere becomes depleted of oxygen which leads to the formation of the highly poisonous gas 'carbon monoxide'. Carbon Monoxide is odourless, colourless and tasteless and will rapidly cause unconsciousness and death with little or no warning prior to collapse. There is no danger when adequate ventilation is provided.

High level ventilation is via the roof lights. The mesh screens fitted should be kept free of obstructions by dust, leaves, insects, etc. Inspect regularly and use a brush and soapy water as necessary.



- ▲ Under no circumstances should the Leisure Home ventilation be covered, blocked or tampered with in any way.

4.2.7 Original Equipment Appliances

See sections devoted to individual appliances.



- ▲ Replacement parts for any appliance shall conform to the appliance manufacturer's specification; and should be fitted by them or an authorised agent.

4.2.8 Portable Appliances



- ▲ Never use portable cooking or heating equipment, other than electric heaters that are not of the direct radiant type, as it is a fire and asphyxiation hazard.

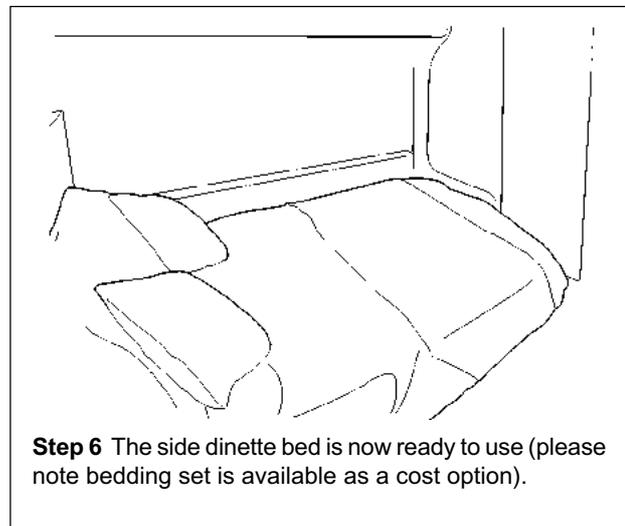
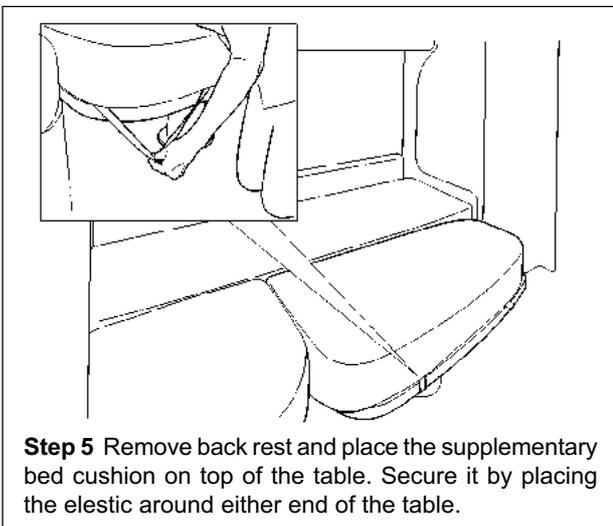
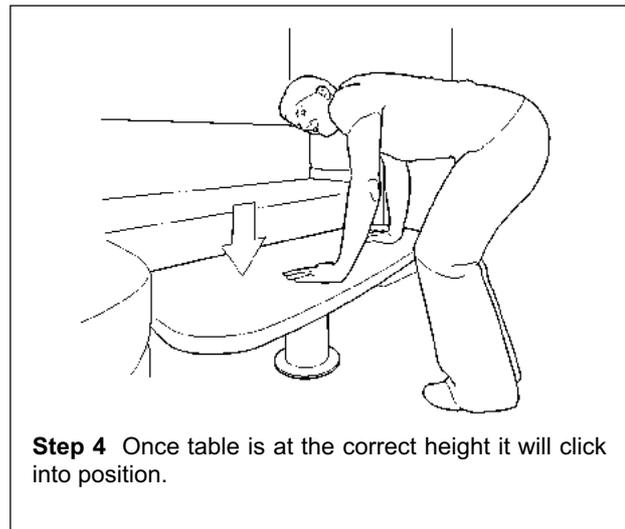
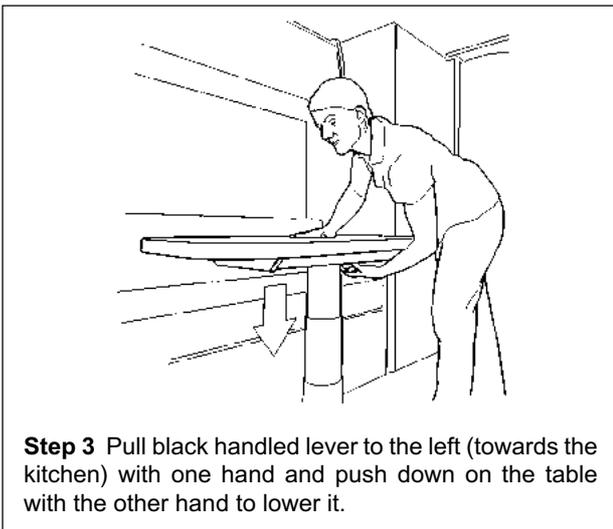
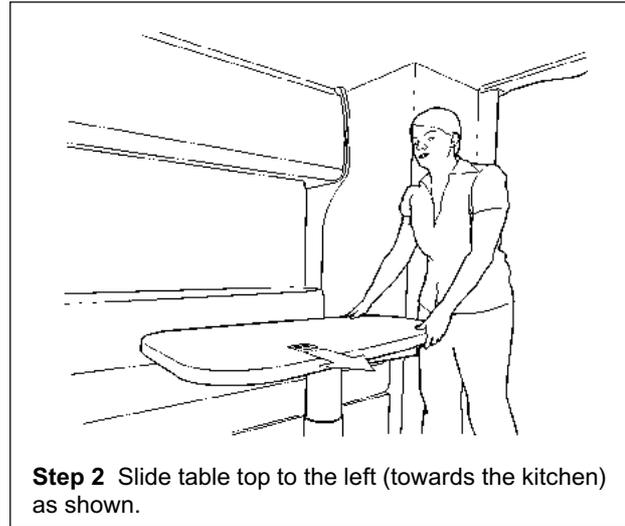
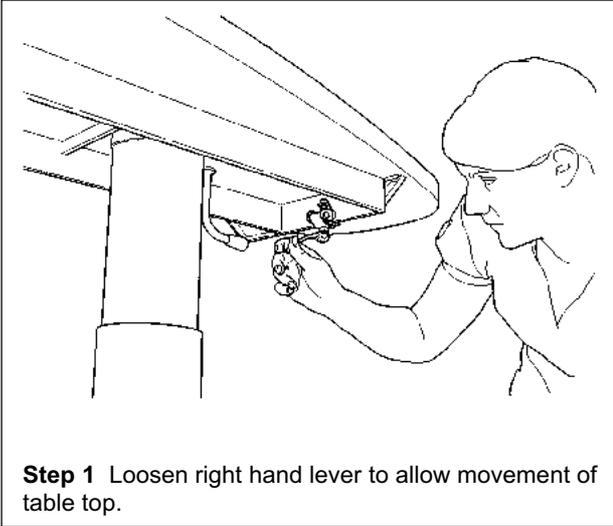
4.2.9 Modifications



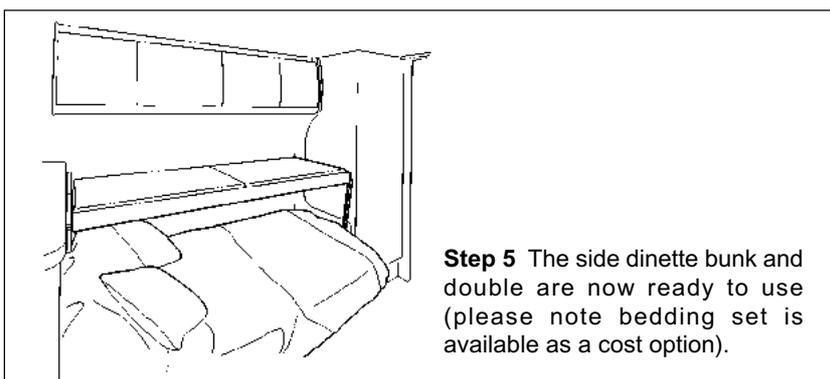
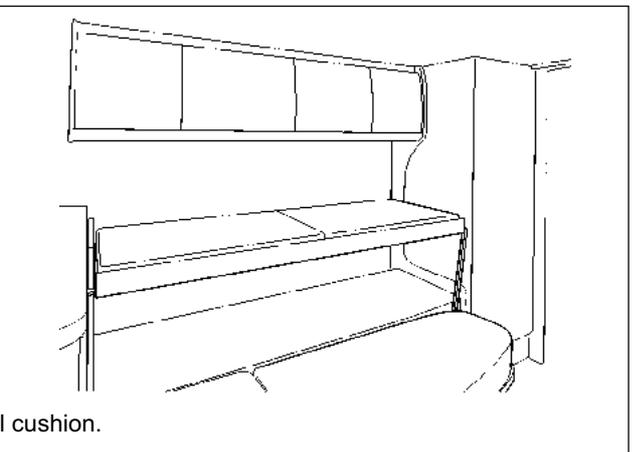
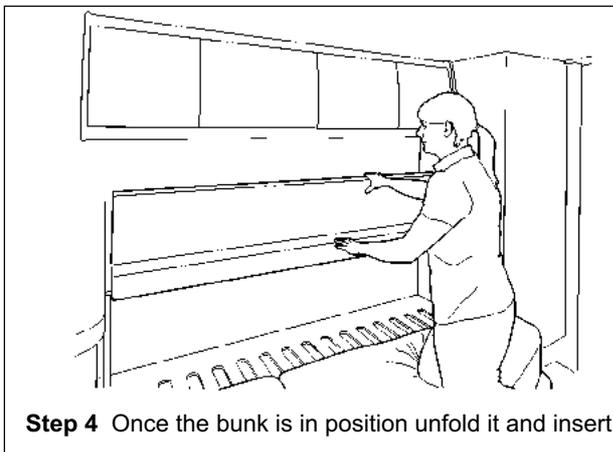
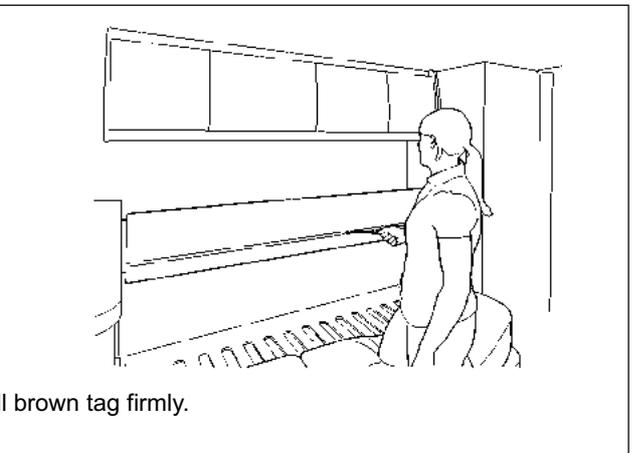
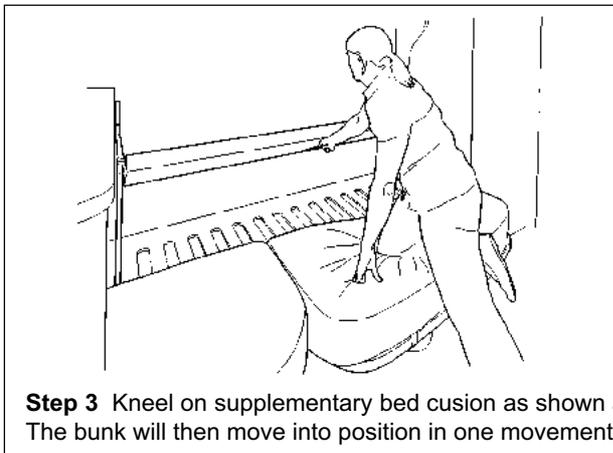
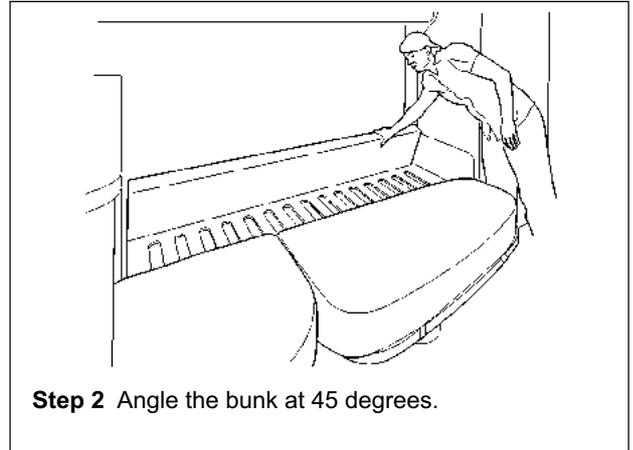
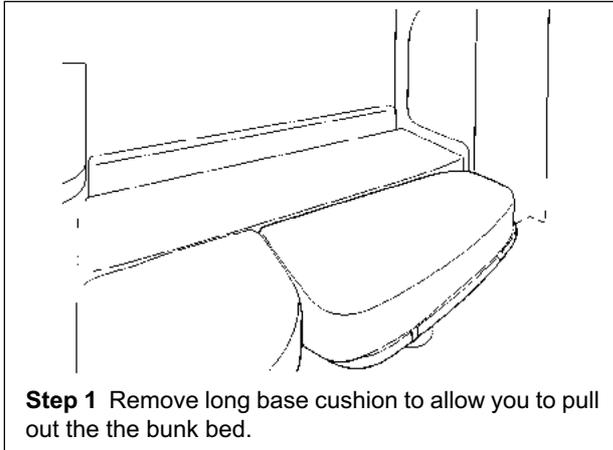
- ▲ Never allow modification of electrical or LPG systems and appliances except by qualified persons.

4.3 BED ASSEMBLY

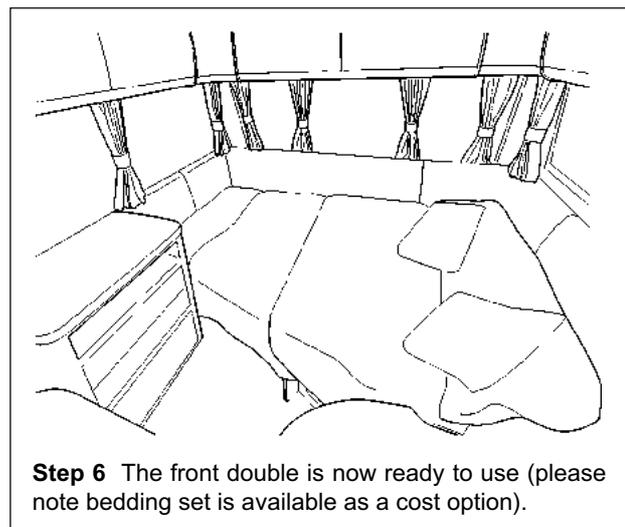
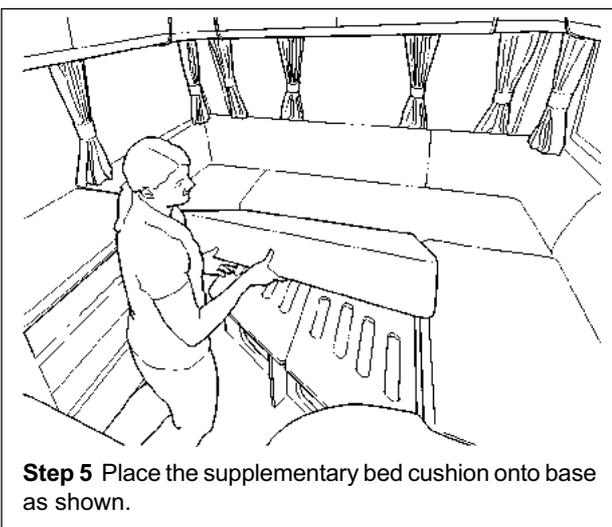
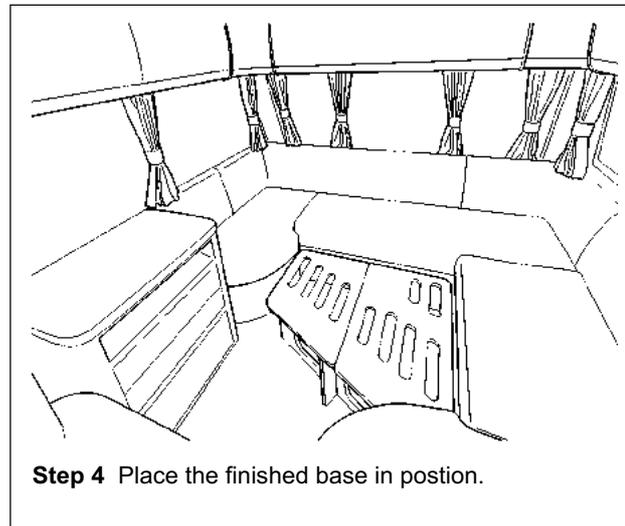
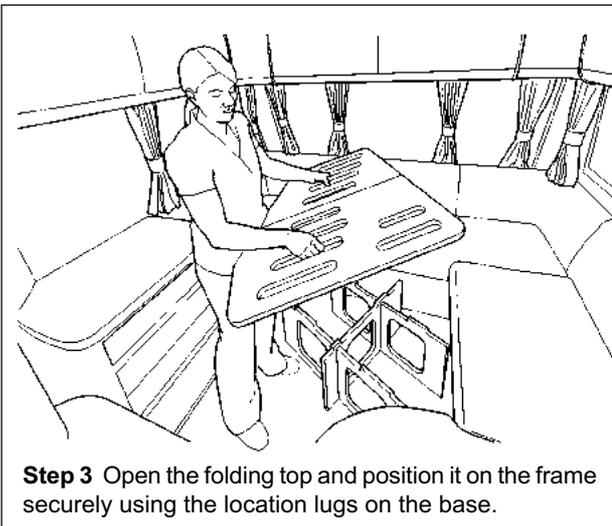
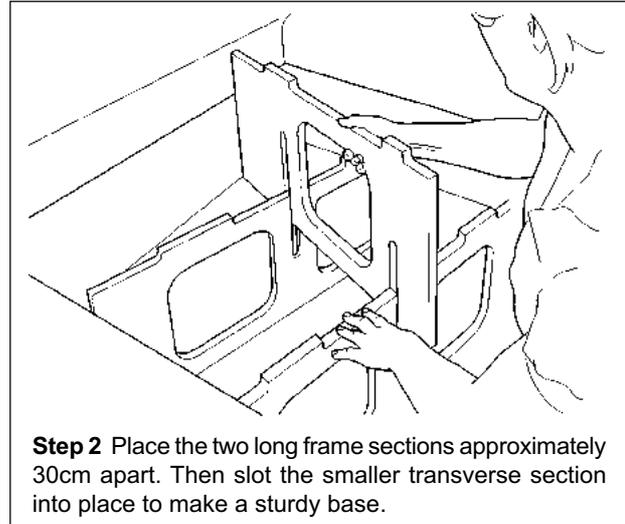
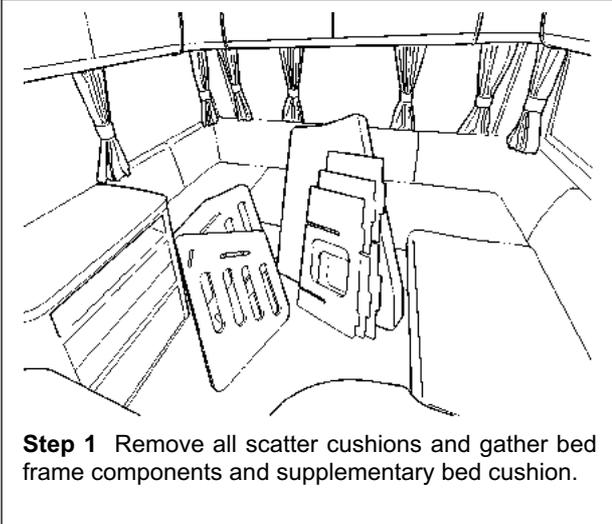
4.3.1 Side Dinette bed – Assembling the Double Bed



4.3.2 Side Dinette bed – Assembling the Bunk



4.3.3 Front Lounge Bed assembly



4.4 Winterisation /Storage

The following applies whenever your Leisure Home is stored particularly during winter months.

- If you will not be using your vehicle for a while it is probably a good time to arrange for your Leisure Home to have its annual service at your appointed dealer.
- Do not leave your vehicle near trees or latch type gates due to possible wind damage.
- Keep any grass around the floor or the Leisure Home short to maintain airflow and stop any possible damp getting into it.
- It is advised that the Leisure Home is ventilated regularly throughout the winterisation/ storage period, opening windows, doors and rooflights where possible.
- All moving parts should be checked for free operation.
- Clean all cooking appliances and the refrigerator before parking up the vehicle.
- Charge up the on board battery every 2 months
- Leave the refrigerator door open. Leave the furniture and locker doors open to allow air to circulate fully.
- Ensure that the entire water system is thoroughly drained.

4.5 Modifications: DIY work

Owners need to be aware that carrying out DIY modifications to your Leisure Home or Leisure Home may in certain circumstances, invalidate the warranty cover and could also affect the safety and structure of the vehicle.

4.6 Condensation

What is Condensation?

Condensation is the change of water from its gaseous form (water droplets) into its liquid form.

Condensation generally occurs in the atmosphere when warm air rises, cools and loses its capacity to hold water vapour. As a result, excess water vapour condenses to form droplets.

Condensation normally occurs in the winter when the Leisure Home is cold and skylights windows and doors are opened less often this means that moist air cannot escape

It is important to try and provide ventilation so that moist air can escape and to use the heating responsibly.

How you can prevent condensation

Provide ventilation so that warm air can escape

- Good ventilation of kitchens when washing, cooking or drying damp cloths is essential, use the electrical element of the heating system, particularly if the windows show signs of misting up.
- If it is not possible to use the space heater open the skylights or windows slightly but keep the main door closed as much as possible.
- After showering, keep the bathroom door closed and the window or the skylight open long enough for the room to dry

4.7 Preparing your vehicle for cold conditions

Your Leisure Home is fully winterised to BS EN 1645-1:2004+A1:2008 standard Grade Three standard.

- Make sure that all plumbing pipes, drains, and water supply appliances within the Leisure Home are properly drained.
- Try to cover as much as possible of the underside of the Leisure Home to prevent snow from collecting and packing up underneath. This will help to prevent damage to the tyres due to weather conditions.
- Apply a lubricant to any of the locks to avoid them from freezing up. This will allow you access to your Leisure Home if it is needed.

4.8 Spares and After-Sales

There are numerous parts and accessories available for your Leisure Home either from your Bailey retailer or through the Bailey Parts website. You are more than welcome to contact the parts website for anything you may require. However if it is a safety or warranty critical item you will need to obtain it from your Bailey Retailer who will fit the component for you.

4.9 WATER SYSTEM - FAULT FINDING

4.9.1 FAULT - *Water not flowing from any tap when operated but pump runs*

Cause	Cure
Water source empty	Check water level and re-fill if necessary
Pump wired in reverse	Check wiring, refer to pump manufacturers' instructions
Pump not primed	Refer to pump manufacturers' instructions
Pipe inlet or outlet pipe disconnected	Check connections
Pump pipes restricted by kinking	Check pipe runs
Blockage in pump inlet or outlet pipe	Check, starting inside freshwater tank
Blocked in-line filter or pump filter	Replace filter
Air leak in suction line to pump	Check for bubbles & secure with a clip

4.9.2 FAULT - *Pump does not run*

Cause	Cure
Pump or tap incorrectly wired	Refer to pump/tap manufacturers' instructions
Pump fuse blown	Check wiring connections and then replace with fuse of correct rating
Battery disconnected	Check connections
Pump seized or overheated	Refer to pump manufacturers' servicing instructions
If a pressure pump is being used, pressure sensing switch may have failed	Refer to tap manufacturers' servicing instructions
If a switched tap is being used, the switch have failed	Refer to pump manufacturers' servicing may instructions

4.9.3 FAULT - *Water flows from cold tap but has reduced flow from hot*

Cause	Cure
Feed pipe to water heater incorrectly connected to the heater outlet	Refer to installation instructions
Blockage in hot pipeline	Disconnect pipes and inspect
Heater inlet or outlet pipes kinked preventing flow	Check and re-route if necessary. Ensure that hose is Carver recommended type
Hot tap not connected	Refer to installation instructions
Hot tap failed or blocked	Disconnect and inspect
Heater non-return valve jammed	Seek service attention

4.9.4 **FAULT - *Water flows from hot tap but has reduced flow from cold***

Cause	Cure
Cold water pipe kinked preventing flow	Check and re-route if necessary
Blockage in cold pipe line	Disconnect pipes after 1st Y connector and check up to tap
Cold tap not connected	Refer to installation instructions
Cold tap failed or blocked	Disconnect and inspect
If a Carver Crystal water service unit is fitted the cartridge is exhausted	Replace cartridge

4.9.5 **FAULT - *Reduced flow from both hot and cold taps***

Cause	Cure
Battery condition low causing pump to run slowly	Check battery state of charge refer to electrical supply note
If new taps have been fitted they may be restricting flow	Disconnect and check that they have at least Ø (6.3mm) bore
Pump needs servicing	Refer to pump servicing instructions
Partially blocked pump filter or in-line filter, if fitted	Replace filter
Pump outlet pipe kinked restricting flow	Check and re-route if necessary
Water leak	Check all water connections

4.9.6 **FAULT - *Reduced flow from either taps***

Cause	Cure
'Y' connector(s) fitted incorrectly	Refer to installation instructions
Pipe kinking restricting flow	Check and re-route if necessary
Bore size difference in taps	Use taps of equal bore size

4.9.7 **FAULT - *Water Heater pressure relief valve venting water***

Cause	Cure
Pressurised water system pump switching pressure too high	Refer to water supply note
Switched tap water system pump flow rate is greater than tap flow rate capacity	Refer to water supply note

4.9.8 FAULT - *Water heater difficult to drain*

Cause

Hot taps not open preventing air entering hot system to let water out.

Air bleed pipe kinked or blocked.

Cure

Open taps

Unkink or unblock pipe.

4.10 USEFUL TELEPHONE NUMBERS' AND E MAIL ADDRESS'S

Bailey Help line	helpline@bailey-caravans.co.uk
Bailey Spares Telephone Number	parts@bailey-caravans.co.uk
AL-KO	01926 818500 mail@al-ko.co.uk
Baumatic Customer Care Telephone	(0118) 933 6911 technical@baumatic.co.uk
FIRE ANGEL TECHNICAL SUPPORT LINE	(0800) 1412561 technical support@fireangel.co.uk
Dometic	(0844) 6260130 Technical@dometic.co.uk
The Caravan Club	01342 326944 www.caravanclub.co.uk
The Camping and Caravanning Club	0845 1307631 www.campingandcaravanningclub.co.uk
The National Caravan Council	01252 318251 www.nationalcaravan.co.uk
DVLA	0300 790 6809 www.direct.gov.uk/motoring.

A

Antenna
Status 530 3-37

C

Cooking Appliances
Guidelines 3-19
Linear Hob 3-15
Midi Oven & Grill 3-17

E

Electrical System 12 volt 2-11
Electrical System 230 volt 2-8

F

Fault Finding
Water System 4-13
Fire & Safety 4-6
Extinguishers 4-6
Ventilation 4-6

G

Gas System 2-5
Gas Leaks 2-6
Ventilation 2-7

M

Maintenance, general 4-1
Microwave
Baumatic 3-39

R

Refrigerators 3-23
Dometic RM 8500 R/H 3-23

T

Toilet
Thetford Cassette C262 CWE 3-32

V

Ventilation 2-7
Ventilation Maintenance 4-6

W

Warranty 1-5
Water Heater 3-1



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