

THE COCKBURN HOLDSWORTH VOLKSWAGEN BASED

VILLA NON ROOF

USER'S HANDBOOK

THE VOLKSWAGEN VILLA LOW LINE

Welcome to your Cockburn Holdsworth VOLKSWAGEN VILLA LOW LINE motor caravan which we hope will give you great enjoyment for many years to come. The following notes are to help you become familiar with the use of the excellent motor caravan conversion; they should be read in conjunction with the Volkswagen Instruction Manual provided by the vehicle manufacturers, which provides information on the vehicle itself.

Naturally, you will want both your vehicle and your motor caravan conversion to give the very best service, and we would underline the need to read these instructions with care, and to implement their recommendations wherever necessary. The same applies to the instructions provided by the manufacturers of standard and optional items such as the cooker, refrigerator and caravan heater.

Failure to do so in the case of gas appliances can - for example - result in the occupants being put at some risk, while failure to follow recommendations on other items can result in their premature failure for which the manufacturer may not wish to be held responsible.

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WARNING - before every journey the driver must carry out a number of checks for the safety of the vehicle and its occupants. These include those contained in the Owner's Manual produced by the vehicle manufacturer; AND the driver must check the conversion including:

- * Turn off regulator on gas cylinder and check that cylinder(s) are stored securely. **NEVER** operate any gas appliance - including refrigerator on gas - when in motion or in a petrol station/when filling with petrol.
- * Remove all but the lightest items from cupboards above waist level.
- * Stow securely all heavier items within other cupboards and **MAKE SURE** they will not become loose while the vehicle is in motion.
- * Stow toilet and other pieces of equipment securely.
- * Stow table, table leg and other motor caravan fittings securely.
- * Close all cupboard doors, lower furniture unit lids and locate all sliding seats (if fitted).
- * Check that the elevating roof (if fitted) is lowered and secured properly.
- * Carry only lighter items in roof rack (if fitted) and make sure any such items are secure.
- * Apply rear seat restraints as these can lead to a more comfortable journey and help reduce the risk of injury in the event of a slow speed collision.

IN NO CIRCUMSTANCES SHOULD VEHICLE OCCUPANTS MOVE AROUND THE VEHICLE WHILE IT IS IN MOTION.

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THE DRIVING COMPARTMENT

The Volkswagen Villa motor caravan does not affect the cab of the Volkswagen except that the VW passenger seat is made to swivel, and that both seats are re-trimmed to match the remainder of the seat fabric used in the motor caravan. The carpet used in the rear of the motor caravan is also extended through into the VW cab for coziness and warmth.

Please note: the driver's cab seat can also be fitted with a swivel function at the time of building the conversion, and a cab table installed between the two cab seats and this makes a welcome additional dinette within the Villa for a small additional outlay. The swivel facility for the driver's seat and the cab table can be provided by most good dealers at a later date, (or at the Cockburn Holdsworth factory) but there is often a waiting list for the work to be done, and there may be an additional cost over the motor caravan optional extras price list.

You may also wish to note that the driver's seat does not swivel to the same extent as the passenger seat simply because of the positioning of the steering wheel. In addition, the vehicle needs to be put into gear and the hand brake released to allow the seat to face inwards.

The passenger seat can best be rotated by sitting on the driver's seat or by standing outside the vehicle with the passenger door open. First move the seat forwards by means of the usual VW seat adjustment. Push the floor mounted safety belt stem down out of the way, and open the passenger door to allow the seat to swing. Find the locking lever which is at the rear of the seat. Hold down the lever and rotate the seat to the required position, making sure that the seat belt is not fouled as the seat is rotated.

The locking lever operates when the seat is in the full forward or full backward positions. After rotating the seat, adjust the seat fore and aft as required.



WARNING: Do not drive or use your motor caravan without first reading and implementing the instructions at the beginning of this manual. The instructions are for the SAFETY of YOU, YOUR PASSENGERS AND OTHER ROAD USERS!

SEATING/DINING/SLEEPING arrangements

The Villa layout is conventional, and is similar to several other Volkswagen motor caravans on the market today. The kitchen unit is situated down the off-side of the vehicle and contains the cooker and sink, while the main seat is situated towards the rear and runs two-thirds of the way across the vehicle. However, there are a number of nice little touches which will make the Villa a more versatile and easy to use motor caravan once out on the camp site.

For a start, you will find the patented Cockburn Holdsworth rear bench seat/bed device which is the easiest to use, both for making up a bed and for returning the bed to a bench seat afterwards. To make the bed, purely lift the front of the seat so that it clears the 'stop' built into the seat, then simply pull the seat forwards to make the bed. The back-rest and cushions will drop into place and the only other operation you may need to do is press the cushions into place to make a smooth bed.

Should you need to gain access to the storage box beneath the bed - as one will always want to do from time-to-time, simply lift the front edge of the seat (now formed as a bed) and the storage is immediately accessible, as it is when formed as a seat.

To return the bed to a bench seat, pull on the strap in the centre of the seat back-rest while at the same time pushing the seat backwards. The seat will automatically be formed, but make sure that the seat base rides up over the 2nd 'stop' so that it is firmly held in place when the vehicle is in motion. When the vehicle is stationary, the seat may be fixed on the 1st stop, to obtain a semi-reclining position.



WARNING! Please note that care must be taken not to damage the seat belts when operating the seat/bed.

When making the bed ensure that the seat belts are pushed through into the bed box to avoid trapping the belts within the framework of the crash tested seat. The seat belts must be pulled through on to the seat as it is being returned to the seat position.

For night-time privacy, fully lined curtaining is provided in your Villa. In particular, you will note that the curtains overlap at the centre and there are velcro tabs, or poppers on most curtains to hold them in place. In addition, the cab curtains are provided with small elasticated loops which can be hooked over the window winder handle to keep these curtains firmly against the side of the van.

There are ample lights provided when darkness falls. On the front face of the top cupboard there is a spotlight which can be directed for reading either when in bed or when sitting on the rear bench seat. There are also 8 watt fluorescent lights on either side of the van and also a small courtesy filament light immediately to the front of the vehicle sliding door which operates when the sliding door is opened and a similar light in the vehicle cab which operates from the cab doors. These two lights are installed by the vehicle manufacturer and your local VW dealer will be able to provide replacement bulbs while replacement fluorescent tubes can be obtained at most good motor caravan or caravan accessory shops.

FLYSCREENS

Cassette Flyscreens are fitted to the side windows. To operate press levers together (located either side of the handle) and slide the screen carefully up or down and locate in the nearest slots to the required position. (i.e. partially closed or fully closed). The screens can be used for extra privacy within the vehicle.

TOILET COMPARTMENT

There is a special toilet compartment on your Villa in the centre of the long kitchen unit. The compartment contains a Thetford 335 toilet which is supplied with your Villa from new. The toilet uses a proprietary chemical such as Aqua-chem, which is obtained at most caravan accessory shops. Full instructions for the operation and maintenance of the toilet are contained within the vehicle.

STORAGE

There is ample storage in your Villa motor caravan firstly in the sliding box beneath the rear seat, next to the wardrobe underneath the worktop, in the area beneath the bed, the long storage unit and the wardrobe.

Note also that the storage space beneath the rear bed cushion is accessed from outside the vehicle when the rear door or tailgate is opened.



WARNING IT IS DANGEROUS TO STORE AEROSOL CANISTERS IN DRAWERS AND CUPBOARDS ABOVE OR NEAR ANY GAS APPLIANCES IN YOUR MOTOR CARAVAN.

TABLE

The main table is located on a single pillar so that it will swivel through 360°. Take the table pillar leg from its position in the wardrobe, and press it firmly into the floor recess. Take the table and mount it on top of the table leg.

NOTE: Single pillar tables cannot be as firm or steady as the conventional four legged table, but maximum firmness can be achieved each time the table is erected by pressing down firmly on the table so that the leg is forced hard into the floor and table cones.

The main table is designed to be used in conjunction with the rear bench seat and is too far away from the swivelling passenger seat to be used in comfort. Additional meal settings can be achieved in the Villa by having the cab driver's seat swivel and having the optional cab table fitted. This would be fitted on a swinging pillar located behind the front passenger seat.

KITCHEN UNIT - WATER & GAS SUPPLY

The fresh water tank is located under the vehicle and holds approximately 63 litres. Some water remains in the tank below the level of the pump draw off. The tank is filled by means of the external fresh water filler cap on the off-side of the vehicle.

The exterior filler is provided with a locking cap which is filled by means of turning the cap in an anti-clockwise direction, and using either a water container and funnel or direct from a tap with the aid of a pipe, (many experienced motor caravanners carry with them a short length of piping specifically for this task).

PLEASE NOTE: When operating the lock on the water filler cap, make sure that the key is fully turned before attempting to remove the cap. When operating key it is advisable to hold the cap with your other hand to prevent it rotating. Hold the cap firmly, press in and turn anti-clockwise. To avoid damaging the lock, never attempt to remove or replace the cap with the key.

The water tank is fitted with breather holes which may allow water to leak onto the ground - this is especially so when the tank is filled to the brim or if the vehicle is parked on an angle. It does NOT necessarily mean that the tank is leaking!

The locking cap is provided with two numbered keys. We would suggest you keep one in a safe place while the other is kept for regular use.

NOTE: Always retain a reference of your key number so that replacements can be provided if they both become lost.

WARNING: Neither ourselves as manufacturers nor your dealers retain the key numbers, and we are unable to provide replacement keys without the appropriate number.

The water tank can be drained by means of a plastic tap situated on the nearside of the tank. The tap turns through 180°. A small white plastic filter unit is fitted in the supply pipe from the water tank and can be removed from underneath the vehicle by unscrewing the jubilee clips joining it to the water pipe.

The water tank itself should be drained periodically and flushed through. Before winter, it is essential to drain the tank and - in fact - the whole water system to prevent it from freezing up. Failure to do so can result in damage to the tank, pipes and water pump for which the manufacturer will not wish to be held responsible.

Water left in the fresh water tank for extended periods may also become unsuitable for drinking or for washing up purposes, and for this reason also the tank must be drained and flushed through if the motor caravan is not to be used for even short periods.

Sometimes, water from plastic tanks can taste a little strange - particularly early on in the life of the motor caravan. Should the water become tainted, the water tank and water system can be treated with a proprietary product called Milton (available from chemists). Puritabs (also available from chemists) will make water safe but many motor caravanners these days prefer to fit in-line filters. There are several good filters on the market, one of the most popular being the Safari available from good motor caravan accessory shops or direct from Associated Chemists Ltd, 61 Wicker, Sheffield, S3 8HT.

PLEASE NOTE: When draining down the water system, it is wise to remove the water tank filler cap to prevent the possibility of air locks in the system. If you are laying the vehicle up before winter (or frosty weather) make sure the water pump as well as the water tank is free of water.

INSIDE THE VEHICLE: The fresh water tank is fitted with a water level gauge, the dial and controls of which are situated on the control panel fitted beside the wardrobe. To set the dial, turn on the motor caravan 12 volt system, depress the button beneath the water level gauge and adjust the calibration knob with the water tank full. Please bear in mind the fact that the water level gauge is not precise in its accuracy and can vary with water from different areas of the country. Consequently, re-calibration may be necessary during your motor caravanning journeys.

The sink and cooker flaps are held up by means of the chrome anti-splash guards.

The electric water pump feeding water to the sink is operated by a foot switch on the floor thus leaving the hands free for other tasks. Treat the foot switch with care; it will give years of trouble free operation if looked after, but is easily broken if kicked or heavy objects are dropped upon it.

The waste water drains into a tank which is situated under the vehicle, a tap is fitted into the system so that the contents can be emptied either directly into a drain for waste disposal or into a separate container for disposal into the appropriate area on the site. See Technical Data for the tank capacity.

GAS SUPPLY & COOKING: The conversion is designed to carry two Calor containers (3.9Kg size) in a sealed compartment in the base of the wardrobe. Gas containers can be obtained from Gaz dealers and from many caravan sites. They must be used with the appropriate regulator and the suppliers recommend that flexible rubber hose from the regulator to the gas piping should be replaced every year. This system is very efficient in use, but all gas fuel is potentially dangerous, and should any leaks be suspected the supply should be turned off immediately and the system checked by an authorised dealer. It is essential that the gas supply should always be turned off at the container when the vehicle is driven because of the risk of fire or explosion in the event of an accident.

NEVER ALLOW MODIFICATION OF GAS SYSTEM OR APPLIANCES EXCEPT BY QUALIFIED PERSONNEL.

Care should be taken not to damage any exposed gas piping when packing or using the vehicle. **DO NOT** obstruct gas ventilation holes in floor of vehicle, they are specifically to allow the escape of gas in the event of a leak.

It is recommended that the flexible gas hoses are regularly checked for deterioration and expiry date and renewed as necessary.

Full manufacturers instructions are supplied with the cooker. The cooker flap top is held up by the fold out chrome splash guard. The cooker should never be used without adequate ventilation in the van as otherwise there will be a build up of fumes.

In draughty situations, especially in windy weather, it may be found that the gas burners may blow out, and although your Villa cooker unit is fitted with a flame failure device (which automatically cuts off the gas supply to the burner in question should its flame be blown out), it is vital to check for this eventuality so that the control knob can be returned to 'off' and the lighting sequence be commenced all over again.

When the gas supply in a gas cylinder is coming towards the end, it will be found that the gas burners appear to burn low with a yellow flickering to the flame, and it will then be necessary to change gas cylinders.

The gas cooker must not be used as a space heater - a specially designed caravan heater can be fitted to your vehicle by most competent motor caravan dealers if required.

CHANGING OF THE GAS BOTTLES: First extinguish any flame or source of ignition before changing gas cylinders and check that all appliances are switched off, next turn off the main gas valve situated between the gas bottle and the regulator. Remove the regulator from the empty gas bottle, check that any sealing washer is not perished or damaged (replace if necessary) and refit to the recharged bottle. After fitting the regulator, ensure that the rubber gas pipe is not twisted or kinked and secure the bottle by the straps. Turn on the main gas valve.

THE SPINFLO THREE BURNER AND GRILL COOKER: Your Villa is fitted with the latest type of stainless steel three burner and grill cooker, which will prepare high quality meals quickly and efficiently. This unit is the Spinflo combination unit, and it is for this unit that these instructions particularly apply.

Lighting the appliance: Turn on the gas supply at the gas regulator and at the appropriate gas tap in the wardrobe.

To operate either of the three burners, depress the appropriate burner knob and turn in an anti-clockwise direction until the indicator of the knob coincides with the large flame symbol. Apply a match to the burner and keep the knob depressed for a further 10-15 seconds until a flame is established. Turn the knob as far as it will go in an anti-clockwise direction. This indicates the bottom of the simmer range.

By turning the knob clockwise, a larger flame can be obtained. To turn off, turn the knob clockwise to the off position when a stop will be reached; then release and the tap will spring out.

Never allow a full flame to burn without a utensil over the burner as this is wasteful and it may also result in heat damage to the underside of the cooker lid or the headlining immediately above the cooker. Care should also be exercised in operating gas taps, because of the restricted space between the chrome windshield and the taps, this area can become extremely hot when the burners are alight.

Please note: Gas may take some time to reach the burners, (or other appliances) if the motor caravan has not been used for some time, or a fresh cylinder is fitted. When lighting the cooker use a taper or match, if it fails to ignite the first time, make one further attempt with a naked flame held against the burner for 20 seconds, but if it fails to light, check the gas supply.

When using the burners we recommend that both lids are in the upright position. Follow the above operation for the other burner and the grill. Under no circumstances should the kitchen unit lid be lowered while the cooker unit is alight, nor should it be lowered until the complete cooker unit has cooled down. Always keep the fold-down door in front of the grill unit in the open position while the grill is being used.

Care should also be taken to avoid scorching the laminate immediately adjacent to the cooker. While this material is a genuine heat resistant plastic laminate, it can be damaged when the burner jet is on full heat and a pan so placed that the flame heat is directed against the surround.



VENTILATION: It is extremely important that all the vents as provided by the Motor Caravan manufacturer do not become restricted or blocked through the placement of contents, in addition it is recommended that all vents are inspected at least once a year to ensure that any protective screens have not become damaged or blocked by dirt. In the event of a screen requiring cleaning, the screen should first be removed from the vent and then left to soak in warm, soapy water for approximately 15 minutes. The screen should then be rinsed and thoroughly dried before refitting.



WARNING! RISK OF FIRE

It is recommended that you provide fire extinguisher(s) that comply with the requirements of BS.5423 and a fire blanket next to the cooker.

There is always the risk of fire in a motor caravan. Use care and common sense; in particular:

DO NOT use gas appliances while vehicle is on the move and DO NOT use gas appliances - including refrigerator on gas - when filling vehicle with petrol.

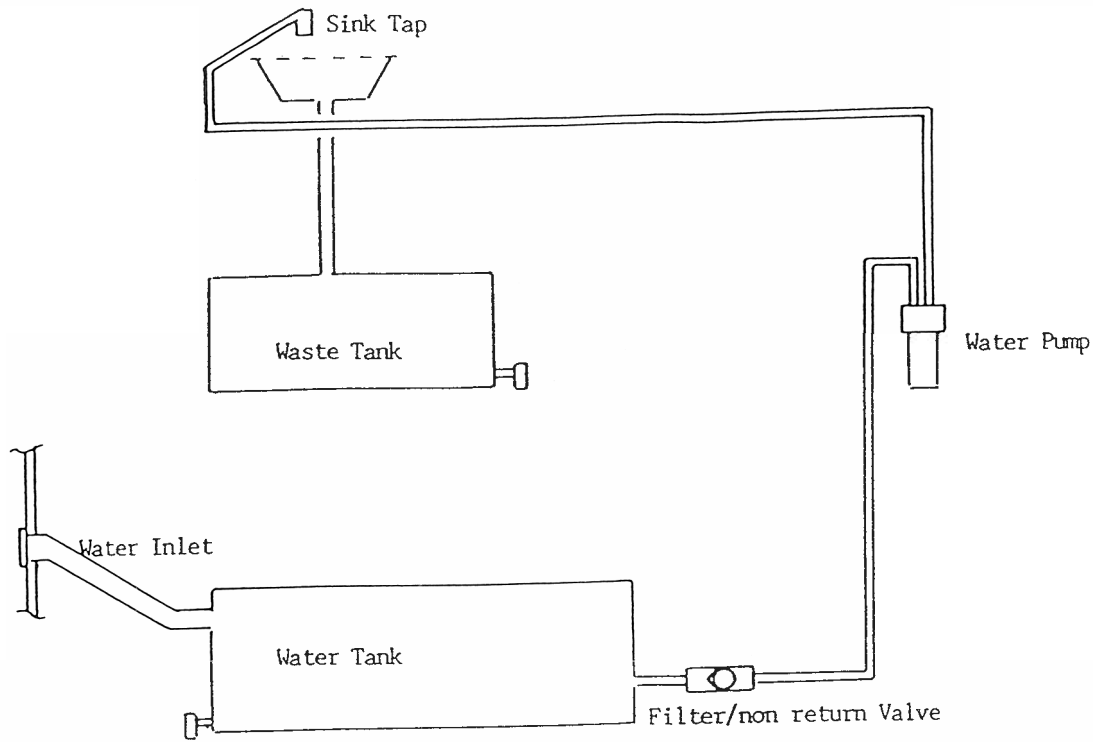
Turn off regulator and secure gas cylinder for road travel.

Keep curtains, seat covers and other inflammable items WELL AWAY from cooker and other gas appliances.

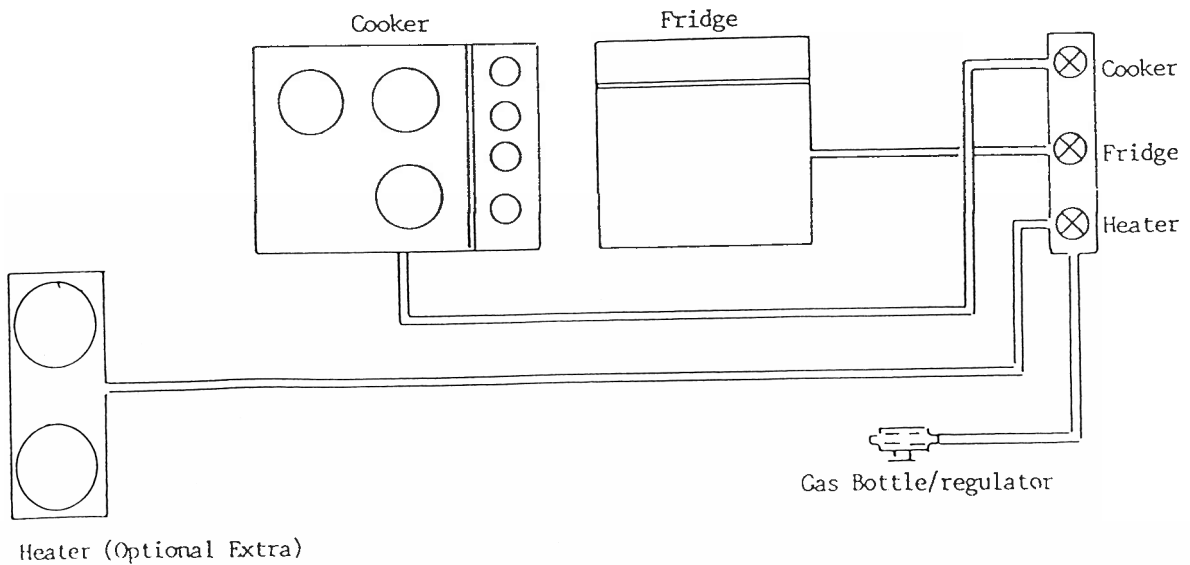
Never use portable heating equipment, other than electric heaters that are not of the direct radiant type.

VILLA

WATER SYSTEM



GAS SYSTEM



CARAVAN MAINS ELECTRICAL SYSTEM - 220-240 VOLT A.C.

The caravan is equipped with mains electrical equipment for use with a mains supply fed to the vehicle via a connector mounted on the rear corner of the vehicle, behind a white pull-up flap. The supply can be obtained from an ordinary domestic power socket when the vehicle is at home, or from a caravan site 'electrical hook-up' which many sites now make available, usually for a small fee.

This will enable use to be made of any ordinary 240 volt electrical mains equipment such as portable TV's, vacuum cleaners, razors, hair driers etc, always providing that the total current demanded by the equipment does not exceed the available supply current. This equipment is used from the domestic power socket mounted on side of fridge unit.

The mains supply can also be used to re-charge the caravan battery through the Zig charging unit. Full protection is built into the design to ensure that the mains supply is isolated from the 12 volt caravan and vehicle battery circuits. The RCD unit gives protection against faults, this is located in the wardrobe. It is recommended that each time before using mains equipment, you should check the operation of this protection device. This is simply done by switching on the mains supply and the circuit breaker switch and pressing in the black tongue above the switch, when the switch should immediately fly 'off' again. This indicates the circuit breaker is operational and the switch can then be reset to 'on'.

NOTE: For additional protection, these three switches are of the industrial type for which the supply is 'on' when the switch is in the 'up' position - the opposite to most domestic switches.

TO USE FROM THE MAINS SUPPLY AT HOME The motor caravan can be plugged into an ordinary domestic 240 volt supply before you leave for your holiday (you can 'cool down' your refrigerator in this way). Please note that although the vehicle connector and flap provides splash protection, it should not be regarded as completely waterproof and it is not recommended that it is used when the vehicle is being washed.

TO USE THE MAINS SUPPLY FROM A CARAVAN SITE 'HOOK-UP' First ensure that the caravan main switch is in the OFF position. Using the mains cable provided install the connector socket to the appliance inlet found on the exterior of the vehicle, then insert the plug on the other end of the cable to the outlet on the pitch supply point. Switch on at the caravan main switch.

TO DISCONNECT: Switch off at the caravan main switch, carefully remove the plug at the pitch supply point and unplug the socket from the appliance inlet on the vehicle.

Always take great care when connecting/disconnecting the cable as camp sites often provide wet conditions due to rain, mist and dew.

NOTE: THE SUPPLY CABLE MUST BE FULLY UNCOILED TO AVOID DAMAGE BY OVERHEATING.

SWITCHING PROCEDURE: To use the van power socket connect up the supply cable and switch on as follows:

- 1) Switch on at the house or caravan site socket.
- 2) Switch on the Residual Current Device unit (RCD) and test as instructions described in the manual and switch on again.
- 3) Switch on the 10 amp switch (the centre one of the group of three on the RCD unit).
- 4) Switch on the appliance if necessary.

To use the domestic supply to charge the battery, connect up the supply cable and switch as follows:

- 1) Switch on at the house or caravan site socket.
- 2) Switch and test the RCD and switch on again.
- 3) Switch on the 6 amp switch (the right one of the group of three on the RCD unit).
- 4) Operate the switch of the charging unit which will illuminate amber.

The caravan battery should now be charging. An automatic cut-out is fitted if it should overheat, but charging will be interrupted.

The Zig unit does not charge the main vehicle battery.

Provided the supply current is adequate, use of the power socket and battery charging can proceed simultaneously.

After using the mains supply and removing the supply cable, close the white plastic flap cover to the connector on the outside of the vehicle to prevent it swinging and becoming damaged.

ELECTRICAL SYSTEMS & FITTINGS

CARAVAN 12 VOLT ELECTRICAL SYSTEM: Your Villa motor caravan is equipped with a comprehensive electrical system with both 12 volt and 220/240 volt circuits to provide comfortable motor caravanning under a wide variety of conditions. Naturally, the fluorescent lights consume the least electricity and these can be operated for some considerable time, along with the 12 volt water pump, without risking a 'dead' vehicle battery.

The Villa is fitted with a Zig caravan battery charger unit which is connected to the control panel and separate instructions have been provided by the manufacturers. This unit is designed to ensure that the caravan (secondary) battery can be charged by the mains electrical supply if this is available. The unit automatically prevents overcharging and a battery condition warning light on the control panel indicates when the 12 volt system is switched on. The caravan battery is automatically charged from the alternator when the vehicle engine is running via the split charging relay fitted in the engine compartment.

The left hand rocker switch on the distribution panel will dictate whether the caravan 12 volt appliances are operated from the vehicle battery (by pushing the switch at the top) or the auxiliary battery (bottom). The centre position for this switch turns off power to all 12 volt appliances. Once the left hand switch has been set, the appropriate 12 volt appliance can be operated with the use of the three other rocker switches plus - of course - the switches on each individual appliance. The following appliances are controlled by the switches:

PUMP	-	Water pump
LIGHTS	-	All fluorescent lights
AUX 1	-	Fridge ignition
	-	Water Heater ignition
		Water level gauge

The main vehicle accessories (such as vehicle lights, windscreen wiper etc) are protected by fuses contained in a fuse box located behind the panel in the glovebox on the dashboard, (see your vehicle manufacturer's manual for details). The caravan fuses are fitted in the engine compartment to the right of the main battery. There are two fuses - each of 25 amp (1) to protect the refrigerator and (2) the Zig control panel.

Carry spare fuses at all times. However, if fuses continually blow, an electrician - or your Villa supplier should be consulted for the root cause of the problem.

NEVER ALLOW MODIFICATION OF ELECTRICAL SYSTEMS AND APPLIANCES EXCEPT BY QUALIFIED PERSONNEL.

Operation on 12 volt electrics: Operation on 12 volt (vehicle) electrics should only be performed when the vehicle engine is running, to prevent battery drainage.

Set the switch on the refrigerator control panel to 12 volt (switch 'H'), then start the vehicle.

The refrigerator will now be operating from the vehicle electrics while on the move and will keep perishables chilled, but it must be remembered that all caravan type refrigerators are not as efficient on 12 volt electrics and it is asking a great deal of the fridge to, say, form ice cubes.

Operation on mains electrics: Hooking the vehicle up to mains electrics is covered on page 9 of your User Manual and should be followed at all times.

Having established a mains supply, make sure all switches on the RCD in the wardrobe are in the 'on' position (up). Turn the control switch to the 'mains' position and ensure that there is not a gas supply to the fridge. You are now free to control the temperature of the appliance by means of progressively turning the knob to the extreme right of the fridge control panel - knob 'K' on the diagram.



It is essential that the vehicle batteries are disconnected before working on 12 volt fittings. All 12 volt appliances in this vehicle must be turned off before the battery or batteries are disconnected. The mains hook up (if fitted) MUST be disconnected before working on the vehicle or conversion. Adjustment or servicing of 220 volt appliances MUST be left to a competent electrician.

REFRIGERATOR:

The vehicle is fitted with an Electrolux 4217 Tilt Tolerant refrigerator of 60 litre capacity with a freezing compartment, and the manufacturer has supplied instructions regarding its use and these should be referred to. Briefly the refrigerator can be used in three ways:

- a) Via the vehicle battery when in motion by putting the switch on the refrigerator to position marked 'Battery'.
- b) The gas supply when the vehicle is stationary and the ignition switched off, by putting the 4 position switch on the refrigerator to '0' and then following the instruction manual.
- c) By mains, if the 3 position switch on the refrigerator is put to 'Mains Plug' and a caravan hook-up or other mains supply is available.

The 12 volt supply is from the main vehicle battery circuit. There is a 25 amp fuse on the refrigerator circuit which is located in the fuse box in the vehicle engine compartment, next to fridge relay and vehicle battery.

Operation on gas:



WARNING

It is vital that the exterior plastic ventilator cover for the refrigerator is removed when the refrigerator is operating - whether it is on 12 or 220 volts or camping gas. This cover is found on the outside of the vehicle, adjacent to the refrigerator at middle of offside of vehicle.

By removing the cover, air can pass across the rear of the refrigerator and keep it at the correct operating temperature. Replace the cover when the refrigerator is not operating - this prevents unnecessary draughts particularly during colder weather.



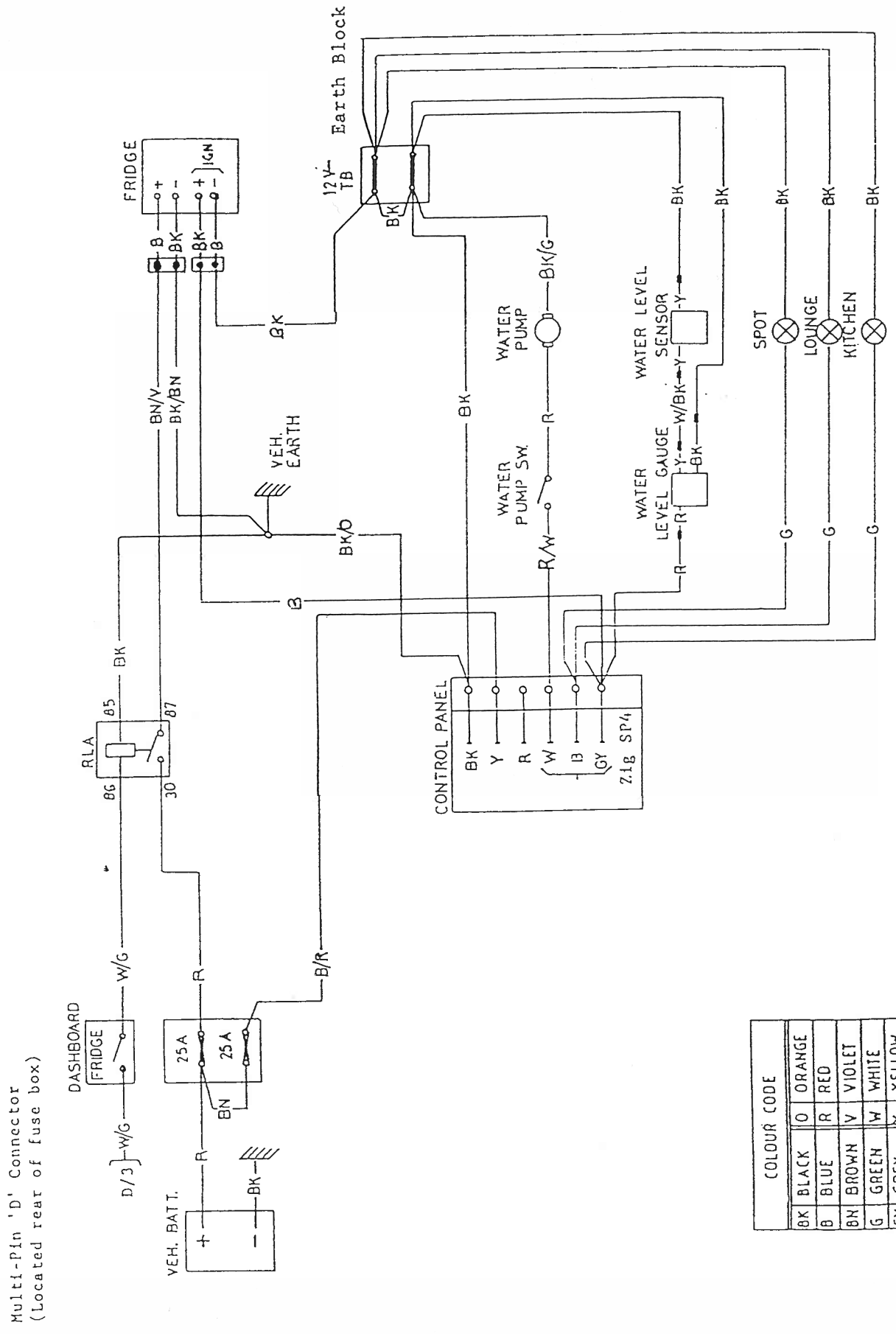
WARNING!! Always turn off the gas supply to the refrigerator at the gas isolating tap when the refrigerator is off or not operating on gas.

To Turn Off/Gas Supply to Fridge: To turn off the fridge the gas tap in the wardrobe must be turned fully off.



WARNING Space heaters using LPG have a high output and are continuous burning and therefore produce a high volume of exhaust. They should not be used if their outlets discharge into an awning space which is fully enclosed and which people are occupying.

There is no danger of exhaust gas pollution in awning spaces from refrigerators and storage water heaters which vent in to them but some fresh air circulation in the space should be provided.



COLOUR CODE	
BK	BLACK
O	ORANGE
B	BLUE
R	RED
BN	BROWN
V	VIOLET
G	GREEN
W	WHITE
GY	GREY
Y	YELLOW

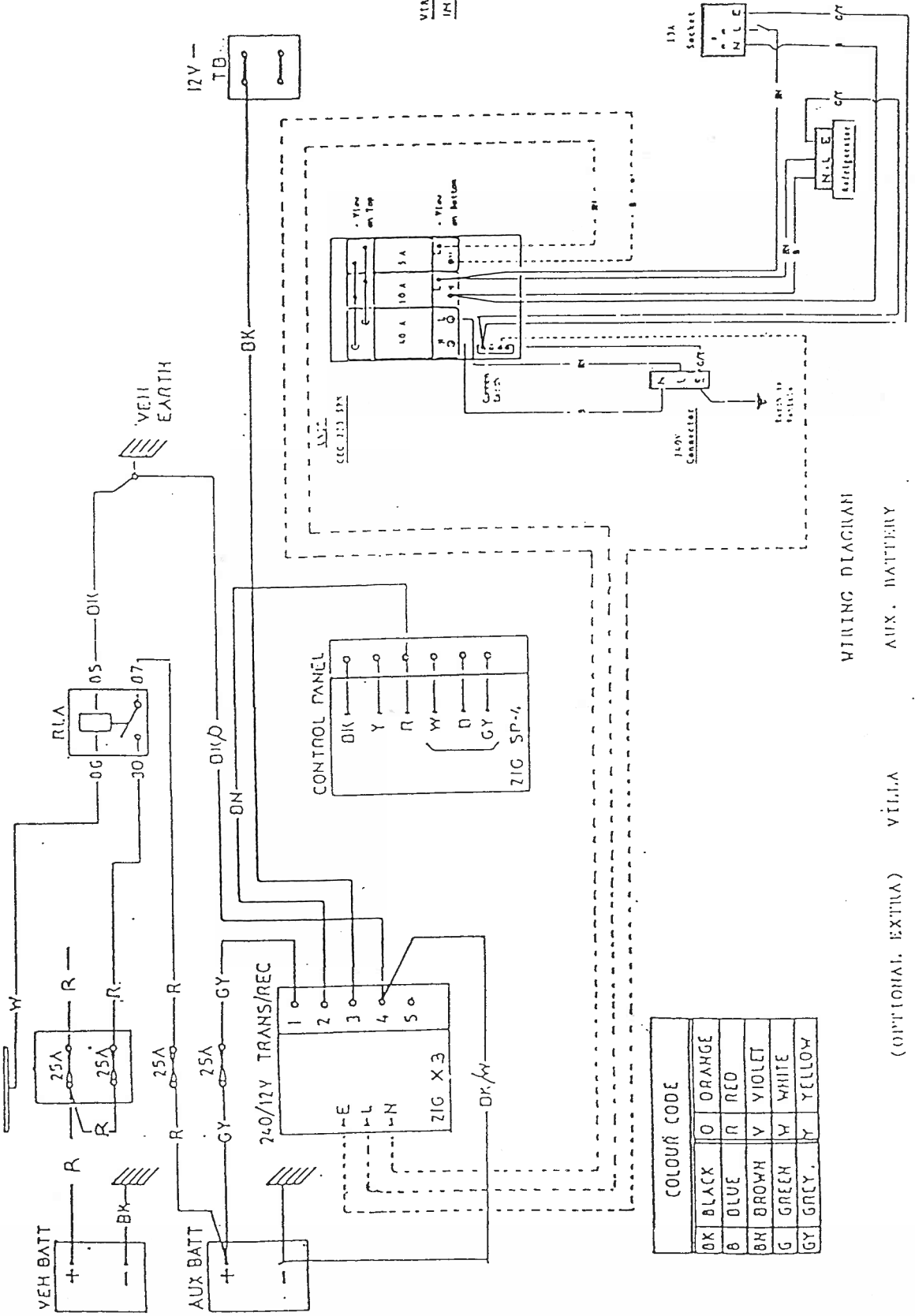
VILLA 12V WIRING DIAGRAM

WIRING DIRECT TO TERMOLOIS (MILITE)
 INSET DRAWING

Colour Code	3M	3	C/T
	Brown	Blue	Green/Yellow

L	Live
N	Neutral
E	Earth

Connect direct to Fuse-box terminal F/3 (Blue wire)



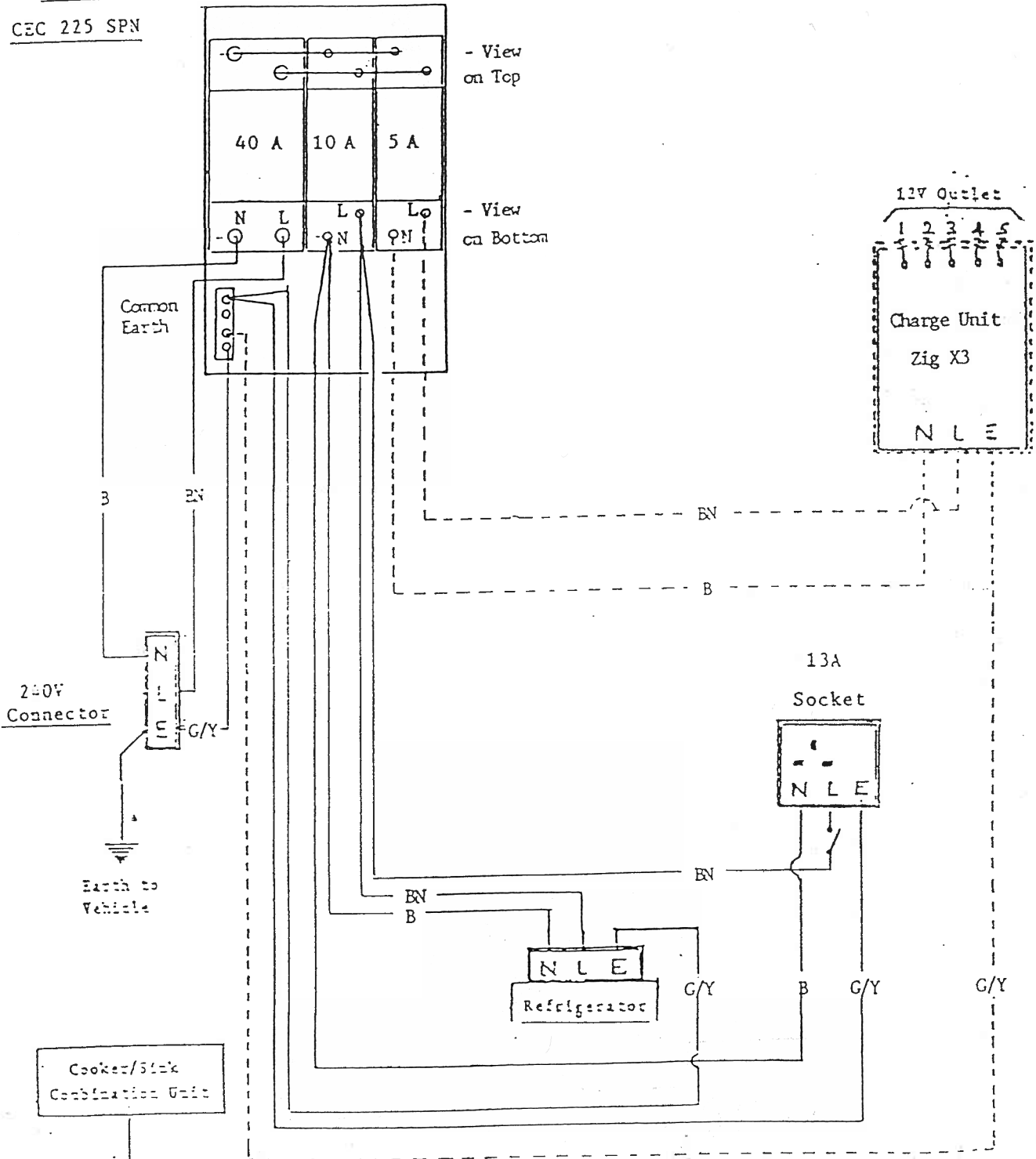
COLOUR CODE

BK	BLACK	O	ORANGE
B	BLUE	R	RED
BK	BROWN	V	VIOLET
G	GREEN	W	WHITE
GY	GRY.	Y	YELLOW

WIRING DIAGRAM
 AUX. BATTERY
 VILLA
 (OPTIONAL EXTRA)

WIRING DIAGRAM 240VOLTS (MAINS)

UNIT
 CEC 225 SPN



Colour Code			
BN	Brown	L	Live
B	Blue	N	Neutral
G/Y	Green/Yellow	E	Earth

THE ELEVATING ROOF

The elevating roof fitted to your motor caravan is manufactured in Germany and meets all the required VAG standards.

To raise the roof simply undo the buckles at the front (inside) and push up. Two handles are fitted to aid this operation.

When lowering the roof ensure that the windows are zipped up, the canvas is inside the top plinth and the buckles are secure before driving away.



WARNING:

UNDER NO CIRCUMSTANCES SHOULD THE VEHICLE BE DRIVEN WITH THE ROOF UP!!



WARNING

Gas appliances must only be used when the elevating roof is up. This is in order to avoid the build up of dangerous fumes.

CARE & MAINTENANCE OF YOUR MOTORCARAVAN

We recommend that the outside of your vehicle is kept clean in the usual way. We also recommend that the vehicle is regularly serviced by a reputable garage.

THE INTERIOR: We recommend that the interior of the vehicle is cared for in the usual manner. Specifically the following can be referred to:

- CARPETS: Vacuum as usual. A dry (powder) cleaner can be used if necessary.
- CURTAINS: Curtains are washable on a 40°C wash cycle.
- WOODWORK: Use of a normal household polish is recommended, particularly to remove scuff marks.
- WINDOWS: These can be cleaned using a normal household window cleaner. However, extreme care should be exercised when cleaning the heated rear window, and this should only be cleaned using a damp wash leather.
- FLYSCREENS: Care must be taken when operating flyscreens to prevent damage.
- WALL/HEADLINING: The interior head lining should be kept clean by regular vacuuming.
- WORK SURFACES: A damp cloth or household polish can be used.
- UPHOLSTERY: This should be kept clean by regular vacuuming. Any stains should be removed as quickly as possible by soaking up any excess fluid, and at the vicinity of the hob. then using a well wrung cloth. There are also proprietary cleaners on the market that are specifically designed for modern fabrics, including carpets, curtains, and the fabrics used for the headlining and on the side panels of your vehicle. In particular, we would suggest the use of 'Vanish' soaps and aerosol cleaners to remove stains and marks on all soft furnishings in the conversion; these cleaners are available at most stores, but if you experience difficulties - write to the manufacturer - Benckiser Ltd., Electra House, Farnsby Street, Swindon. SN1 6AH (Tel:0793 612422) Please note that the labels should be read with care first.

COOKER:

Cleaning is best carried out when the hob is still warm but not hot. Never start cleaning the hob before all taps and isolation switch have been switched off. Do not keep aerosols or inflammable products in the cupboards and drawers in the immediate vicinity of the hob.

It is important that all burner ports are kept clean and free from blockage. Wash in soapy water only. To unblock the flame ports use a brush with hard bristles. Dry carefully before reassembly and ensure they are resealed in venturi correctly.

Do not use abrasive cleaner. Polish with a dry cloth or chamois leather. Clean up spillages of acidic liquids immediately, i.e. lemon juice, vinegar etc.

LEAKAGE OF GAS - If a leak is suspected, turn off all appliances. Turn off gas at cylinder, do not operate electrical equipment or use naked lights, open all doors to thoroughly ventilate vehicle (if doors are connected to courtesy lights, do not open them). When these precautions have been taken contact a qualified caravan dealer who is Corgi registered.

IMPORTANT: Do not use penetrating oil on gas taps. If in doubt, contact the manufacturers.

ELEVATING ROOF:

See instructions on page 17.

EXTERIOR STRIPES:

When cleaning the exterior of your motor caravan care should be exercised so that the vehicle stripes and Cockburn Holdsworth names and logos are not damaged. In particular, care should be shown when cleaning around the area of the stripes and logos to prevent them from 'lifting'. The manufacturer will not wish to be held responsible for damage caused in this way.

IN GENERAL:

Every new Cockburn Holdsworth motor caravan is supplied with a copy of the S.M.M.T. booklet giving advice on annual service and checks for your motor caravan conversion and we thoroughly recommend that the advice contained therein is followed in detail. Further copies of this booklet can be obtained from most motor caravan dealers or from Cockburn Holdsworth Ltd, at £1.20 each plus 50p handling charge.

OPTIONAL EXTRA

PROPEX HEATER

Your Cockburn Holdsworth motor caravan may be fitted with the optional Propex heater which is a useful feature for motor caravanning in colder conditions or in winter.

The heater should be ordered so that it can be fitted as original equipment at the time of building the motor caravan conversion in the Cockburn Holdsworth factory. The heater can be installed at a later date by the companies recommended by the heater manufacturers. If in doubt, contact the heater manufacturers:-

Propex Marketing Ltd
Unit 5
Blackmore Road
Ebblake Industrial Estate
Verwood Dorset
BH21 6BB Telephone: 0202-823538/9

It is pointed out that the cost of fitting the heater at a later date may well be greater than when fitted as original equipment due to the additional work involved.

OPERATION:

The heater is operated by two controls - the thermostat dial and the function switch.

The thermostat dial selects the temperature and has a wide function range. The function is selected by the 3-way switch. If heat is to be selected, press the switch on the side of the small flame and if cool air is to be blown, press the switch on the side of the propeller. When heat is selected, the red power light will glow and if the thermostat dial is set high enough, the green light will come on and the heater will automatically ignite. If the cool air vent facility is selected, the red power light will turn green and the heater fan will run without the burner being lit.



WARNING:

The heater is a particularly safe unit in that the combustion area is completely sealed from the inside of the vehicle. In other words, the air to be warmed is drawn into the unit through the fixed vent, passed over the combustion chamber and returned into the vehicle via the multi-directional vent. The combustion chamber is fed from air drawn in beneath the vehicle and exhausted through another pipe also beneath the vehicle.

OPTIONAL EQUIPMENT CONTINUED....

Care should be taken at all times the unit is running, that neither of the vents inside the vehicle are blocked, as this could lead to the unit running poorly and becoming over-heated.

In the same way, periodic checks should be made to make sure the inlet and exhaust pipes beneath the vehicle have not become blocked and if the motor caravan is used in snow IT IS ESSENTIAL THAT THE PIPES BENEATH THE VEHICLE BE KEPT FREE FROM SNOW AT ALL TIMES; failure to do this could cause inefficient operation of the heater or - at worst - a complete shutdown.



THERMAL INSULATION: Cockburn Holdsworth vehicles are designed to achieve a high level of insulation. However, it is not advisable to use the vehicle for habitation purposes when it is likely to be subjected to severe or freezing conditions for long periods.

TECHNICAL DATA

Panel Van Conversion on SWB 1.0 Kombi - 4 Cylinder Petrol/Diesel

WEIGHT:

MODELS	G.V.W.	KERB WEIGHT	MAX PAYLOAD
Elevating Roof Low Line Villa	2515kg	2038 kg	477 kg

KERB WEIGHT consists of fully converted van, full tank of fuel, and drinking water, spare wheel, tool kit, and driver.

KERB WEIGHT does not include, passengers, personal effects, camping equipment nor food stuffs.

DIMENSIONS:

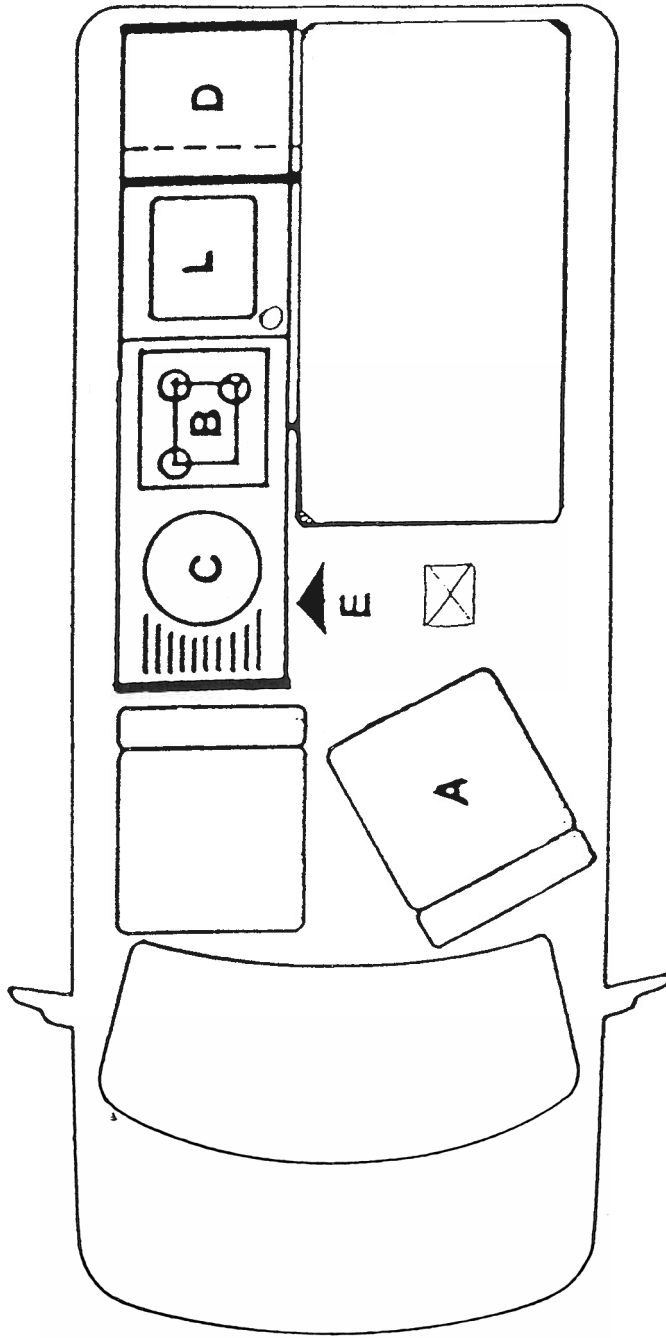
Overall Length/Shipping Length	4.655m
Overall Width:	1.84m
Overall Height (closed)	1.981m

CAPACITIES:

Fresh Water Tank:	63 litres
Waste Water Tank:	36 litres
Gaz cylinder:	3.92kg Butane (x2)

VEHICLE WEIGHT DATA



MAKE: VOLKSWAGEN	WEIGHT KG
MODEL: VILLA ELEVATING ROOF LOW LINE	
G.V.W.	2515 KG
KERBSIDE WEIGHT: Note: Kerbside weight includes driver, oils, coolants, spare wheel, full fuel tank.	2038 KG
MAXIMUM PAYLOAD:	477 KG
OPTIONAL EXTRAS:	
Oven	N/A
2nd Battery & Charger	10 KG
Fire Trace	2 KG
Overcab Bed	N/A
Hot Box	5 KG
Single Beds	N/A
Double Bed	N/A
Roof Bed	25 KG
Swivel/Seat - Driver	10 KG
Swivel/Seat - Passenger	N/A
Roof Rack	10 KG
Spring Assistors	N/A
Diesel Engine	NO EXTRA
Arm Rest	6 KG
OTHER ALLOWANCES:	
General Allowance	75 KG
Passengers (3)	75 KG
Gas Bottles	5.5 KG
Toilet/Waste Tank	STANDARD
Water Tank (full)	63 KG
NET PAYLOAD	190.5 KG



- A Swivel cab seat
- B Cooker
- C Sink/Drainer
- D Wardrobe
- E Fridge
- F Bed
- G Toilet
- L Storage

VILLA

VENT LOCATIONS

- HIGH LEVEL 
- LOW LEVEL 

CAPRICE FIFTH SEAT

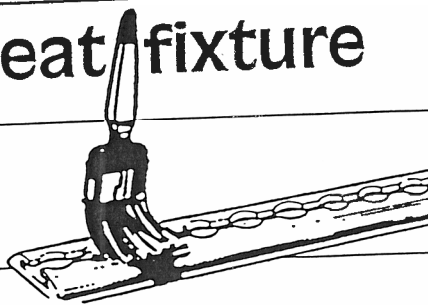
Located to the nearside of the saloon area, the swivel seat is fitted into two lengths of low profile rail.

Instructions to fit and remove the seat are as follows:

IMPORTANT NOTICE

Lockable seat fixture

Brush Tracks Clean
before re-positioning
seats in vehicle



FOR USE WITH LOW PROFILE RAIL

Slide seat 10mm Forward or Back
to allow Plunger to Engage Turn Bar
to Lock

When safely locked the Plunger must
be completely Inset and the bar
parallel with the rails

To Release Lock - Turn Bar through 30°
and lift plunger turn another 30° to clear.
Slide seat 10mm and lift free of rails.

