O W N E R S M A N U A L

KONCORD - KOMPACT

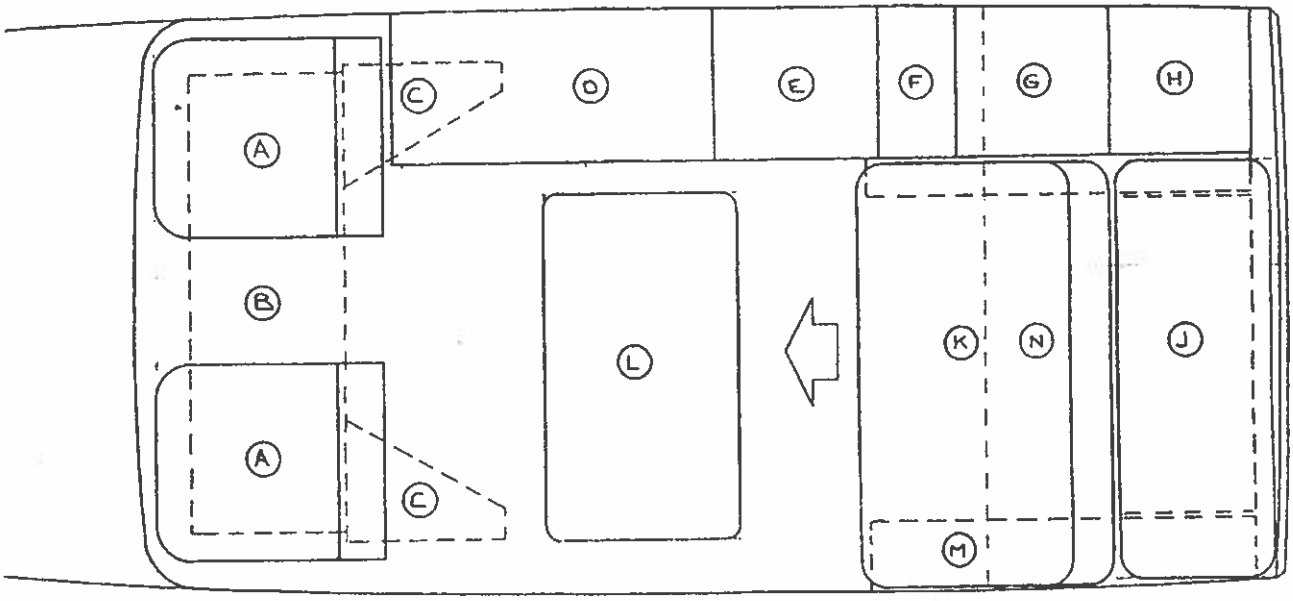
L I S T O F C O N T E N T S

I N T R O D U C T I O N

Congratulations on choosing an Autohomes VW conversion.

This Owner's Manual and Operating Guide gives all the necessary information to ensure that you get the most out of your conversion. Further information can be obtained from any Autohomes (UK) Limited dealer who can also provide information on Autohomes After Sales Service.

Please consult your Volkswagen manual for information on the Volkswagen Transporter Kombi on which the conversions are based.



A). Swivelling cab seat
B). Over cab storage locker
C). Side storage locker
D). Sink & drainer with refrigerator & storage below.
E). Two burner hob & grill with storage below
F). Cutlery drawer
G). Wardrobe
H). Shelf storage with gas bottle compartment
J). Removeable storage/drawer unit
K). Sliding seat with toilet & storage below
L). Table
M). Jack stowage locker
N). High level storage locker (Kompact only)

S P E C I F I C A T I O N S

KONCORD AND KOMPACT

Based on the Volkswagen Kombi.

EXTERNAL DIMENSIONS

Overall length	4775mm	(15'8")
Overall width	1840mm	(6'0.5")
Overall height	2667mm	(8'9") Koncord
Overall height	2500mm	(8' 2.5")Kompact

INTERNAL HEIGHTS

Koncord	1980mm	(6'6")
Kompact	1850mm	(6'0.75)

Over Upper Bed

Koncord only	510mm	(1'8") max.

WEIGHTS

Gross vehicle weight	2515kg	(2.48 tons)
*Unladen weight	1934kg	(1.90 tons) Koncord
	1887kg	(1.86 tons) Kompact
Load capacity	581kg	(0.58 tons) Koncord
	628kg	(0.62 tons) Kompact

*Unladen weight is weight of vehicle with body, fitted with all electrical equipment and auxiliarly equipment necessary for normal operation of the vehicle plus the weight of the following elements, coolant, at least 90% of the capacity of the fuel tank, spare wheel, standard tool kit.

BED SIZES

Lower bed	1830 x 1168 (72" x 46")	
Upper bed	1830 x 1220 (72" x 48")	Koncord only

ELECTRICAL SYSTEM

12 volt system taken from the vehicle battery, 220/240 volt system taken from an external source supplying the refrigerator and one socket outlet.

GAS SYSTEM

Internal storage for 2 camping Gaz 907 gas cylinders. Metric copper pipe with compression fittings and isolating taps for all appliances. Appliances are designed for low pressure gas supply.

Butane	11.2inwg (28mbar)
Propane	14.8inwg (37mbar)

WATER SYSTEM

External 78 litre (17 gallon) fresh water tank with exterior locking filler. Electric water pump with isolating switch.

MATERIALS AND COLOURS

ITEM	DESCRIPTION
Upholstery	Caraline 540 - Colour R631 "Mascara"
Mattress	Tokyo
Curtains	Vienna Jade or Vienna Burgundy (dependant on graphics colour)
Roof lining	Foam back & plain Snow
Wall board	Flax Grey
Furniture board	Sierra Light Oak
Work tops	Resopal 3261Q

OPTIONS AVAILABLE	WEIGHT
1). Control unit with second battery.	19KGS
2). Water heater.	7KGS
3). Blown air heating.	8KGS
4). Retractable 3 point seat belt.	1.5KGS

NOTE: If any of the above options are fitted to your conversion then the weights shown above must be deducted from the load capacity figure in the Specification (Page 2)

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LOADING OF VEHICLE

Correct weight distribution is an important factor in ensuring a balanced and easy to drive vehicle.

It is therefore essential to plan the location of stores and personal effects to suit the number and travelling positions of your passengers.

WARNING

Heavy items such as tins of food etc., must not be carried in high level lockers.

It must also be remembered that your motor caravan has a maximum weight limitation. This is given as the gross vehicle weight on the Specification Sheet, and should not be exceeded.

Finally, we would strongly recommend draining the waste water tank (optional) as soon as practicable after leaving a site so as to avoid travelling with unnecessary weight.

Roof Rack & Ladder - Koncord
Roof Locker & Ladder - Kompact

The maximum permitted load is 35kg evenly distributed. All articles carried on the KONCORD rack must be securely attached to the rack and care taken to avoid damage to the roof panel.

Ensure the locker lid is always closed and the toggle catches securely fastened on the KOMPACT.

WARNING

Roof rack load may affect the vehicle handling, particularly cornering and your attention is drawn to the section of "Loading your Vehicle".

BEFORE DRIVING CHECK LIST

WARNING

Store table.

Check all lockers, cupboard doors, drawers and top hinged windows are secure.

Gas cylinder is turned OFF at the regulator.

12 volt operation selected on the refrigerator (if in use).

Sliding seat locked in the travelling position.

Cab seats facing forward and secure.

SEAT BELT AND RESTRAINTS

In addition to the cab seat belts, lap restraint straps are fitted as standard to the rear seat.

WARNING

When restraint straps are available use them at all times while the vehicle is in motion.

Do not strap more than one person with each strap.

For maximum effectiveness the lap strap should be worn low across the pelvic crest.

Straps should not be worn twisted.

Do not wear straps over rigid or breakable objects in or on your clothing, such as eye glasses, pens, keys, etc., as these may cause injury.

Several layers of heavy clothing may interfere with proper positioning of straps.

Straps must not rest against sharp objects.

Keep strap buckles free of any obstruction that may prevent secure locking.

Straps that have been subjected to excessive stretch forces in an accident must be replaced.

If straps show damage to webbing bindings or buckles they should be replaced.

Do not modify or dis-assemble the restraint straps in your vehicle.

Never bleach or dye restraint straps.

WARNING

WHEN LIVING IN YOUR MOTORCARAVAN ALWAYS ENSURE YOU HAVE ADEQUATE VENTILATION, PARTICULARLY WHEN USING UNFLUED COOKING APPLIANCES. TREAT ALL GAS AND ELECTRICAL APPLIANCES WITH THE SAME RESPECT AS YOU WOULD IN YOUR HOME.

ADVICE TO OCCUPIERS

VENTILATION

DO NOT OBSTRUCT THE VENTILATORS WHICH ARE FITTED. YOUR SAFETY DEPENDS ON THEM.

IN CASE OF FIRE

1 GET EVERYONE OUT.
2 TURN OFF OUTSIDE GAS VALVE AND/OR OIL VALVE (IF FITTED)
3 RAISE THE ALARM AND CALL THE FIRE BRIGADE
4 IF CONNECTED TO A MAINS ELECTRICAL SUPPLY, CHECK THAT IT IS DISCONNECTED OR SWITCHED OFF AT THE PITCH SUPPLY POINT
5 TACKLE FIRE IF SAFE TO DO SO

FIRE PRECAUTIONS

CHILDREN SHOULD NOT BE LEFT ALONE

MEANS OF ESCAPE. MAKE SURE YOU KNOW THE LOCATION AND OPERATION OF THE ESCAPE WINDOWS AND DOORS. KEEP ALL ESCAPE ROUTES CLEAR.

COMBUSTIBLE MATERIALS. KEEP THEM CLEAR OF ALL HEATING AND COOKING APPLIANCES.

FIRE FIGHTING. ENSURE THAT THERE IS, AT LEAST, A WATER OR DRY POWDER FIRE EXTINGUISHER (TO BS 5423, RATING 13A) BY THE MAIN EXIT DOOR AND A FIRE BLANKET NEXT TO THE COOKER.

MAKE YOURSELF FAMILIAR WITH THE INSTRUCTIONS ON YOUR FIRE EXTINGUISHER AND THE FIRE PRECAUTION ARRANGEMENTS ON THE SITE.

SWIVELLING CAB SEATS

The seat release lever is located in the seat box with access through an aperture in the outboard side of the seat box.

The lever is lifted to release swivel lock. To swivel the drivers seat it is necessary to release the handbrake to allow the seat to pass over it.

Before releasing the handbrake it is necessary to put the vehicle in gear.

We would not advise the use of the drivers seat swivel unless the vehicle is parked on level ground.

INTERNAL LAYOUT

The internal layout of the KONCORD & KOMPACT combines the cab with its two swivelling seats and the rear sliding seat to form a comfortable lounging area. A free standing table is used for dining.

HIGH LEVEL STORAGE

Storage is provided at both the front and rear of the KOMPACT. Front only on KONCORD. Each side at the front is an additional locker one of which contains a four piece crockery set.

HIGH LEVEL BED (KONCORD ONLY)

When not in use the bed is stored to the rear of the vehicle and retained by a full width flap. To make the bed, simply release the two retainers and fold down the flap and flap extension.

Pull out the three mattresses using the fabric handle provided on the bottom mattress. This mattress has its own built-in support and must be positioned at the front. Arrange the other two mattresses to make the bed. Reverse the procedure to stow, ensuring that the mattress with the built-in support is stowed at the bottom.

KITCHEN UNIT

This unit consists of a two burner hob with grill, a sink bowl and a drainer, all in stainless steel and the whole covered with heat resistant worktops.

To gain access to the sink and hob lift the worktops to their vertical position and retain with clips provided. The lower part of kitchen unit houses the refrigerator and cupboards with shelf storage.

WARDROBE UNIT

This unit consists of two separate storage compartments, the left hand compartment for hanging clothes, the right hand side is shelf storage with access to the gas bottle compartment below.

Additional storage space is provided in front of the wardrobe, access being gained via a flap in the top panel. This space is not available when the optional air heater is fitted.

GAS BOTTLE COMPARTMENT

Access to this compartment can be from the interior through a flap in the bottom right hand side of the wardrobe unit or from the rear. This is done by raising the tailgate and opening the small door at the base of the wardrobe unit. The compartment is vented to the exterior and on no account must this be covered.

Remove the aluminium panel on the rear pillar in this compartment for access to the rear lamps.

REAR STORAGE/DRAWER UNIT

A removable unit consisting of storage compartments with removable lids above two drawers. It provides cushion storage during the day and becomes part of the bed arrangement at night.

JACK STORAGE COMPARTMENT

This unit provides access to the vehicle jacking equipment and the rear lamps through the top flap.

BENCH SEAT

Provides comfortable seating during the day when static and, in conjunction with the two rear cushions converts to the double bed at night. The seat can be used in one of three positions or removed altogether.

VENTILATION

In addition to that provided by the base vehicle (refer to your handbook for operation), roof ventilation is provided by a wind-up rooflight with built-in flyscreen and two upper side windows.

The double glazed upper windows are fitted with conventional type window handles for retaining the window closed, and special stays for holding the window open. To open the window lift handles to the vertical position, pull the stay down over the handle, push open the window and engage the end of the stay into the slot of the handle retainer.

INSULATION

The insulation gives protection from extremes of heat and cold and minimises condensation. Body sides have insulating material fitted where access is available. A double skin construction is used for the roof with insulating material between.

FREE STANDING TABLE

The table may be used both inside and outside the vehicle. When travelling it is stored behind the bench seat back on its own special brackets. The table is positioned with its top against the seat back and is retained by two durable dot fastening straps.

O P E R A T I N G I N S T R U C T I O N S

Appliances in your KONCORD/KOMPACT are supplied by Europes foremost manufacturers. Before using them you should study the information contained in this section and the other accompanying operating instructions.

All warranty certificates should be completed and returned, if required, to the relevant manufacturer.

LOCATION OF UNITS AND APPLIANCES

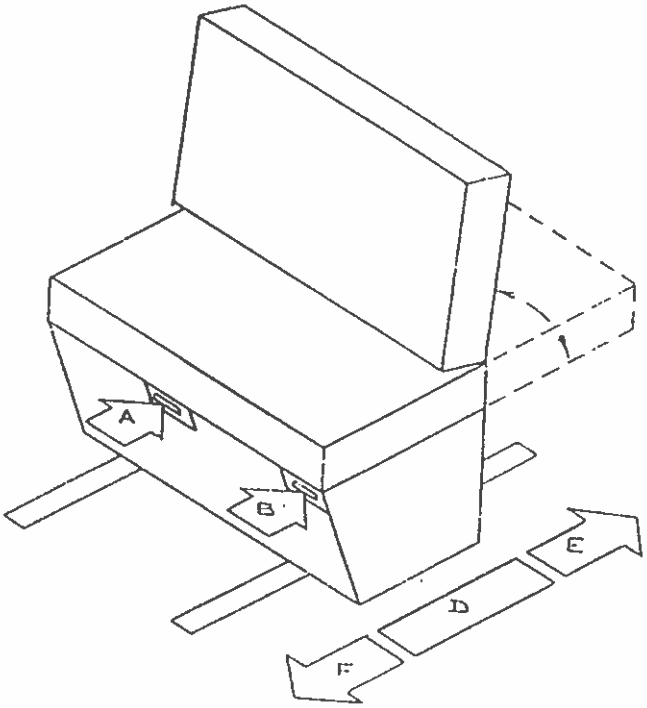
Control unit with charger - 12 volt (Optional)	- Panel above wardrobe.
Contents gauge - Fresh water tank	- Panel above wardrobe.
Drain plug - Fresh water tank	- Bottom of tank - acces underfloor.
Drain tap - Waste water tank (Optional)	- Underfloor.
Earth leakage circuit breaker 240V	- Offside rear cupboard.
Electrical external socket 240V	- Offside.
Electrical internal socket 240V	- Lefthand side wardrobe
Electrical internal socket 12V	- Panel above wardrobe.
Gas isolating taps	- Cupboard below hob.
Refrigerator 240V plug and socket	- Cupboard below sink.
Second battery (Optional)	- Engine compartment.
Warm air blower (Optional)	- Compartment in front o wardrobe.
Warm air blower control box (Optional)	- Panel above wardrobe.
Water pump and pressure switch	- Beneath panel in sink unit cupboard.
Water pump switch	- Panel above wardrobe.
Water tank - Exterior filler	- Nearside rear panel adjacent to sliding door.
Water tank - Fresh water	- Underfloor forward.
Water tank - Waste water	- Underfloor offside.
Water heater (Optional)	- Cupboard below hob.
Water heater control box (Optional)	- Cupboard below sink.

BENCH SEAT

To slide the seat, first locate the pin release handle 'b' at the front of the seat to the right - just beneath the cushion. Pull the handle out to its furthest extent and either push or pull the whole unit towards its new position.

Release the handle as soon as the seat is moving to reset the release pins. When the seat reaches its new position the pins will automatically lock and prevent any further movement.

The seat can be removed by sliding and locking into the full forward position, lifting vertically to disengage the seat from the tracks and removing through the sliding door.



Bench Seat

To convert the seat to the bed configuration first ensure the seat is located in the forward of the two centre position 'D'. Remove the table if stowed and place between cab seats. Pull the handle 'A' in the front of the seat, to the centre, just below the cushions to it's furthest extent. This releases the locking pins retaining the seat back, which will drop down into the bed position.

A drop down flap in the font of the seat provides access to the Porta Potti and a plastic storage container.

SAFETY WARNING

Use of Bench Seat When Travelling

If the bench seat is to be occupied when travelling it must be located and locked in one of the two central positions 'D', no other position is suitable.

If the bench seat is to remain unoccupied when travelling it may be positioned in the central or rear position 'E'. It should never be left in the forward position 'F', (i.e., removal position) or in any intermediate - unlocked position.

ELECTRICAL

240 volt - Low Voltage Appliances

Electricity at 240 volts is available for the operation of the refrigerator, charger unit (optional) and one socket outlet. An external socket allows the elctrical supply at the campsite to be coupled to the vehicle which is used internally to the mains unit.

EXTERNAL SOCKET

The mains inlet has a current rating of 16 amps and is protected with a weather proof cover. When coupling the mains lead plug ensure the plugs protective cover locks home ontop the socket to make a firm connection. Remember to unlock the plug cover from the socket before removing. Press the weather proof cover into place after removing the plug.

THE MAINS UNIT

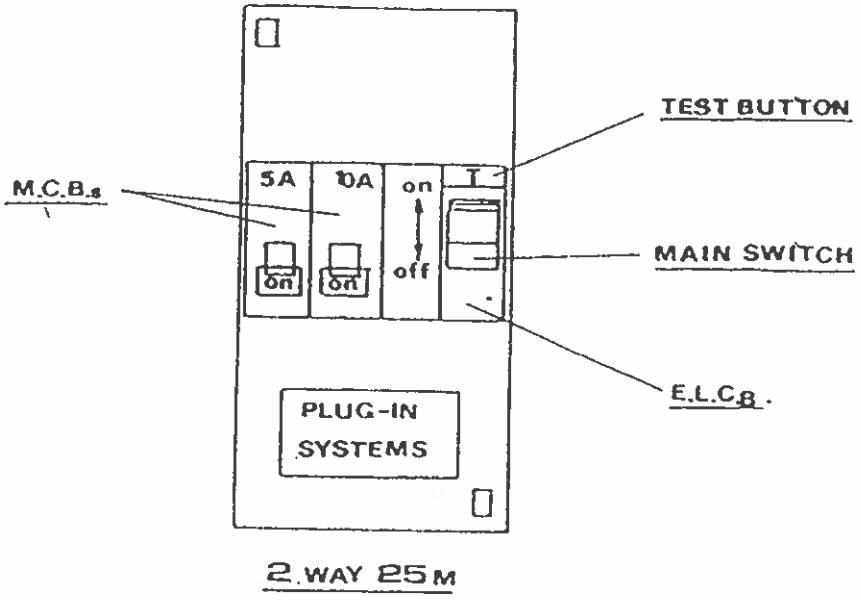
Consists of an earth leakage circuit breaker (ELCB) or (RCCD) which provides protection against earth faults and possible electrical shocks. In the event of an earth fault which would cause a leak of current to earth the unit should immediately trip and switch off the supply. Only after elimination of the fault will it be possible to reset the ELCB to the 'ON' position and so restore the supply again. The 'ON' position is upwards against the spring pressure.

Periodically, it is necessary to test the operation of the ELCB this is achieved by ensuring that it is in the switched 'ON' position with the electricity supply connected. By pressing the test button market 'T' the unit should immediately switch to the 'OFF' position, provided this happens all is correct and the switch should be returned to the 'ON' position to restore the supply. If the ELCB fails to disconnect when the test button is pressed switch 'OFF' supply and consult a qualified electrician.

The ELCB also acts as the main switch for the vehicle, if it is necessary to switch off all circuits in the vehicle this can be achieved by operating the OFF/ON SWITCH on the ELCB.

The miniature circuit breakers (MCB'S) are mechanical fuses, which in the event of an overload situation in the circuit which they protect, will automatically switch to the 'OFF' position. After the elimination of the fault the MCB should be reset by switching back on again, against the spring pressure in a upward direction.

In normal operation these MCB's should be left in the 'ON' position.



2 WAY 25M

REFRIGERATOR

Wired from the 5 amp MCB in the mains unit and via a '13 amp' plug and socket.

The plug is fitted with a 3 amp fuse and allows the refrigerator to be disconnected in the event of the unit having to be removed for servicing.

3 PIN OUTLET SOCKET

Wired from the 10 amp MCB in the mains unit

INSTRUCTIONS FOR ELECTRICITY SUPPLY

To connect

1. Before connecting the caravan installation to the mains supply, check that-

   (a) the supply available at the pitch supply point is suitable for the installation of the caravan and its appliances.

   (b) the caravan main switch is in the OFF position.

2. Remove or raise any cover from the electricity inlet provided on the caravan, and insert the connector of the supply flexible cable.

3. Remove or raise any cover from the socket outlet provided at the pitch supply point and insert the plug at the other end of the supply flexible cable.

4. Switch on at the caravan main switch.

5. Check the operation of circuit breakers, if any, fitted in the caravan.

   IN CASE OF DOUBT CONSULT THE CARAVAN PARK OPERATOR OR HIS AGENT.

To disconnect

6. Reverse the procedure described in Paragraphs 2 to 4 above.

Periodically

7. Preferably not less than once a year, the caravan 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 Institution of Electrical Engineers.

12 VOLT ELECTRICS

STANDARD

The vehicle battery supplies electrical power to the interior lights, water pump, internal socket and optional equipment. The circuit is protected by a 35 amp fuse.

INTERNAL LIGHTING

Lighting is provided by two transistorised fluorescent lights each fitted with two 8 watt tubes. These 12 volt units use 0.75 amp per unit.

To replace a defective tube remove the two retaining screws and separate the plastic cover from the base.

Two spot lights are fitted using a conventional 10 watt bayonet fitting bulb. Additional lighting is also available from the vehicle courtesy lights. For their operation refer to the VW Handbook.

WATER PUMP

The pump supplies water on demand via a pressure switch when the isolating switch is 'ON' and it uses approximately 2 amps when running.

12 VOLT INTERNAL SOCKET

Maximum load should not exceed 3 amps.

REFRIGERATOR

The 12 volt supply is only available when the engine ignition switch is 'ON' and the refrigerator switch is set to 12 volt operation.

WATER SYSTEM AND APPLIANCES

FRESH WATER TANK

A 78 litre (17 gallon) water tank is fitted beneath the vehicle and is filled from an external lockable filler located on the nearside rear panel, adjacent to sliding door.

WATER FILLER

To remove the cap for filling. Fully insert the key and turn anti-clockwise to stop, release key. Push filler cap inwards hold in this position and at the same time turn the cap anti-clockwise to stop, release the cap and it will spring out sufficiently to allow it to be removed from the filler.

To replace the cap after filling the water tank reverse the above procedures. Push the cap inwards, turn clockwise and release. Turn key clockwise and remove.

PRIMING THE SYSTEM

The water system will have been checked before leaving the factory and again by the dealer before delivery to you, so depending on the time of year there may be water in the system. If not, proceed as follows.

Fill the tank with water, check that the tap is turned off. Switch on the 12 volt electrical supply to the pump. It may or may not run depending on water or air in the system.

Slowly open the cold water tap and leave open until all the air has been expelled. After expelling all the air from the system the pump should only run when the tap is turned on.

WATER CONTENTS GAUGE

This gauge consists of a indicator needle moving across a triangular shape, the narrow end indicates tank empty the wide end tank full.

For the gauge to show the water contents the right hand knob must be pressed, the gauge will illuminate and the needle will move to show the amount of water in the tank.

The second knob, on the left hand side allows the gauge to be adjusted to compensate for the different ph value of water from different areas. After filling the tank turn the knob left or right to align the needle with the wide end of the triangle

WATER PUMP

The Shurflo water pump is a self priming unit connected to a separate pressure switch. When switched on water will always be available when the ON/OFF valve on the front of the sink unit is opened. The pump may be left switched on when not in use but we recommend it be switched off whilst travelling, at night and when the vehicle is left unattended.

GAS SYSTEM AND APPLIANCES

There is provision for the storage of two Camping Gaz 907 bottles in the special compartment at the base of the wardrobe/shelf storage unit. Retaining straps are provided for both bottles and should be used at all times.

Gas containers and regulators are not supplied with the vehicle but we recommend the use of Camping Gas No.907 containers, and a Camping Gaz horizontal regulator tap part number 080794.

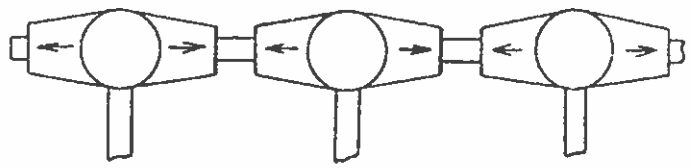
To connect the cylinder to the vehicle gas line, a length of Neoprene hose 5/16" bore and 1/8" wall (British Standard 3212 Part 1) will be required.

GAS BOTTLES SHOULD BE TURNED OFF WHILST THE VEHICLE IS IN MONTION OR UNATTENDED. COOKING APPLIANCES SHOULD ONLY BE USED WHEN ADEQUATE VENTILATION IS PROVIDED AND NEVER FOR HEATING THE VEHICLE.

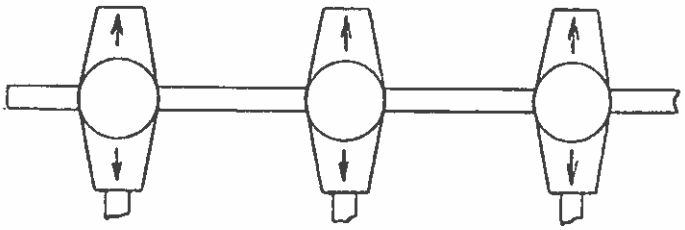
ISOLATING TAPS

Isolating taps are fitted in the gas supply lines to all the appliances.

The isolating taps are in the 'OFF' position when the red bar handles are all in line with each other, as shown.



ALL TAPS OFF



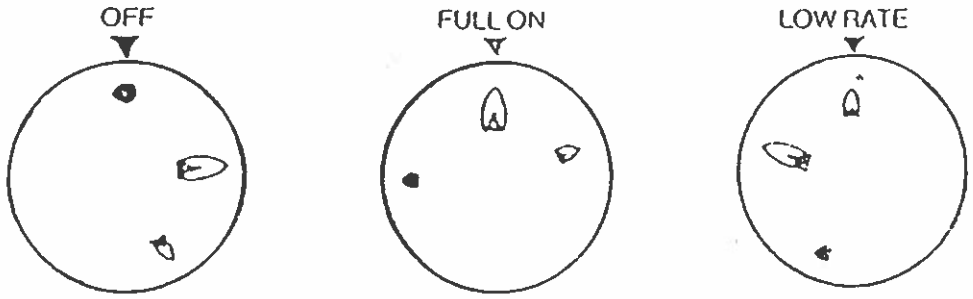
ALL TAPS ON

HOTPLATE

The taps are self locking in the OFF position.

When lighting a burner always make sure you apply a lighted match or taper before turning on the gas. With lighted match in position push in the tap and keeping it depressed, turn it in an anti-clockwise direction to the FULL ON position.

When turning tap from the FULL ON position to LOW RATE, turn anti-clockwise until tap will not turn any further. This indicates the bottom of the simmer range. By turning clockwise a larger flame can be obtained when required. To turn off, turn clockwise to OFF position, when a stop will be reached; then release and the tap will spring out.



GRILL

The operation of turning on the gas is the same as for the Boiling Burners (see previous page).

Whilst the grill is heating up, place the empty grill pan under the lighted burner to protect the lining. When the grill has heated up, remove the grill pan, load the pan and place in cooking position.

When the grill is in use always ensure that the front of the grill compartment is open and the worktop over the grill is in the raised position.

When the appliance is in use it is recommended that a window or rooflight is opened for ventilation purposes.

WARNING

The hob unit must never be used as a space heater. Always ensure there is adequate ventilation when using the hob.

REFRIGERATOR

The refrigerator can be operated by any one of three power sources:-

12 volt electrical. Available only when the ignition is switched on, and is used when driving.

220/240 volt electrical. Used on site when available.

LP bottle gas. Used on site when the vehicle is to be at rest for more than half an hour. It must be levelled in both directions, so that the ice tray shelf inside the frozen food storage compartment is level.

(This can be checked with a small spirit level placed on the ice tray shelf).

If it is not convenient to level the vehicle and it is to stand out of level for more than half an hour, the refrigerator should be temporarily switched off.

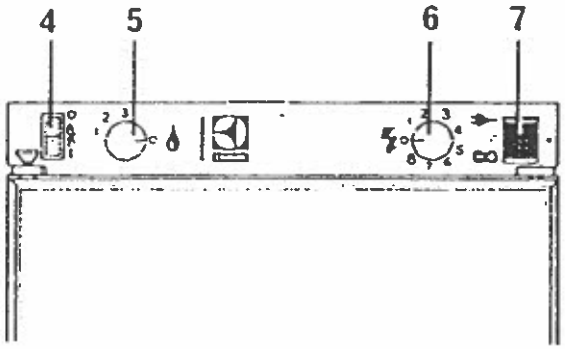
THE ELECTRONIC IGNITION

When the switch is switched on the electronic circuit is activated producing a series of sparks between the electrodes and the burner head. The neon light in the switch will flash on and off as sparking takes place. As soon as the burner lights, the flame is detected by an electrode, sparking ceases and the neon light will go out.

After the burner has lit, the switch should be left in the 'ON' position so that in the event of the burner going out (due to a gust of wind for instance), the ignitor will automatically start sparking again and relight the burner, provided of course that gas is present.

If the burner does not re-ignite within 30-60 seconds the flame failure valve will close and automatically shut off the flow of gas to the burner. If this happens sparking will continue to take place and the neon light will flash continuously to alert the user that something is wrong, or that the gas bottle is empty and needs replacing.

LIGHTING THE BURNER (LPG OPERATION)



4. Switch for electronic igniter. 'O' = off, '1' = on.
5. Combined gas control and flame failure device.
6. Electric thermostat (220 or 240V operation).
7. Voltage selector switch. (The meanings of the symbols are given below).

= 220/240V

O = off

= 12V

See that the voltage selector switch (7) is set at 'O', i.e., is at its central (OFF) position.

Turn on the valve of the gas bottle and open the tap in the gas supply to the refrigerator.

Turn the knob (5) of the gas control valve so that the indicator mark is opposite setting number 3.

Switch on the ignition switch (4) by pushing in the bottom of the switch against the symbol "1". The neon light in the switch should start flashing.

Push in fully the knob (5) of the gas control valve and keep it held in. When the burner lights the neon flashing light will go out. When this happens keep the knob (5) held in for a further 15 seconds or so for the thermocouple over the burner to heat up, then release the knob. If the neon starts flashing again it indicates that the flame has gone out in which case repeat operation number 5.

After lighting the burner leave the switch (4) in the 'ON position.

ELECTRICAL OPERATION

The dual voltage electric equipment is for operation from the 12 volt battery in the vehicle or from mains electricity with a 220/240 volt supply, when satisfactory earthing is available on a site. Before using the refrigerator on electricity, make sure that the voltage supply is suitable for that of the refrigerator.

It is important to undertstand that 12 volt operation is only intended to be used while the engine is running and charging the battery. The current drain at 12 volt is 8 amps.

Before connecting to a mains voltage supply, it is most important to make certain that the circuit to the vehicle is properly earthed. When operating on mains voltage, the temperature in the refrigerator is thermostatically controlled and can be adjusted by means of the knob of the thermostat.

The 12 volt circuit is not thermostatically controlled and the cooling unit will operate all the time the refrigerator is connected to 12 volt and switched on.

(As 12 volt operation is for use only when driving the vehicle, it is unlikely to result in over-freezing because of the comparatively short period of travel. The refrigerator can be manually switched off and on periodically as experience proves necessary).

TEMPERATURE REGULATION

After starting up the refrigerator, it will take about an hour before there are signs of cooling. when operating on mains voltage electricity the refrigerator is thermostatically controlled and the thermostat knob should be set to No.3 or 4.

This will maintain a suitable temperature in the refrigerator and frozen food storage compartment for general use, but in hot weather, or if more cooling is required, the knob should be turned on to a higher number. If less cooling is required, the knob should be turned to a lower number.

For operation on gas the refrigerator should be started off with the gas control set at MAX. This will provide suitable temperatures in the refrigerator in warm weather, but if the fresh food compartment becomes too cold, especially in cooler weather, turn the gas control knob on MID or MIN. Remember to return it to a higher setting when necessary - if the weather becomes warm again for instance.

DEFROSTING

Frost will gradually form on and in the frozen food storage compartment and on the fins at the side of the compartment. It is a mistake to assume that an accumulation of frost gives a colder cabinet therefore, the refrigerator should be defrosted regularly - about once a week or ten days depending on the conditions of use.

To defrost, turn the gas control knob OFF, or the voltage selector to '0' depending on which operation is being used.

Remove the ice tray, food etc., wrap frozen food in several layers of clean newspaper and place the packing in a cool place.

To defrost as quickly as possible a small dish of hot (not boiling water) may be placed on the ice-tray shelf and a bowl of hot water on the cabinet shelf, changing the hot water as necessary until all the frost has melted.

Do not place dish of hot water on the bottom of the frozen food storage compartment, and do not attempt to defrost more quickly with an electric fire or other form of heat as this may damage the plastic surfaces.

Defrosted water will run via a tube at the back into a drip collector fixed to the rear of the refrigerator, where it will evaporate into the circulating air.

When all frost has melted, wipe dry the frozen food storage compartment and cabinet interior, then restart the refrigerator setting the gas control knob or voltage selector switch and thermostat knob to their respective positions.

Replace the fresh and frozen food but wait till the cabinet has cooled down again before making ice.

Remember that if the temperature of frozen food is allowed to rise unduly during the defrosting, its storage life may be shortened.

WHEN NOT IN USE

Whenever your refrigerator is to be out of use for a period, turn off any power supply to the unit. Empty the cabinet and defrost as described earlier. Clean and thoroughly dry the interior and accessories.

WARNING

Only suitably qualified persons should be allowed to work on the systems and appliances in this vehicle.

O P T I O N S

CONTROL UNIT WITH CHARGER AND SECOND BATTERY

The control unit charger provides, central control of 12 volt systems and the ability to charge the secondary battery from an outside 220/240 volt supply.

With the exception of the refrigerator all other 12 volt units are fed via the control panel.

Whilst travelling, the control unit charging switch should be in the touring position. Both batteries will then be charging by the vehicle alternator.

The refrigerator will be supplied with 12 volts via the ignition switch. It is therefore necessary for the refrigerator control to be set to 12 volt.

At all times when stopped and when it is intended to use the 12 volt electrics in the body of the vehicle, change the charging switch to "ON SITE". This ensures that any 12 volt current will only be drawn from the secondary battery.

If for any reason the secondary battery will not operate the 12 volt equipment, then it is possible to run the equipment from the vehicle battery by switching the charging unit to "TOURING".

Use of the vehicle battery in this condition should be restricted to avoid flattening the battery below the level for starting the engine.

If the vehicle is connected to a 220/240 volt supply via the control unit the switches should be positioned as follows:-

Mains switch "ON", charging switch to "ON SITE". In this condition the secondary battery will automatically be charged as required.

It is not necessary to charge the vehicle battery through the control panel.

Do not forget to change the refrigerator over from 12 volt to either mains electricity or LPG.

TO USE THE 12 VOLT EQUIPMENT

Turn on the 12 volt switch on the control panel. The battery condition indicator will light either red or green depending on the state of the battery and the 12 volt equipment will be operating.

The battery condition monitor gives warning that the caravan battery is becoming discharged. The red light will glow when the battery voltage is below 11 volts, above this voltage the green light will glow.

No harm will come to the system or the battery if the accessories are used when the red light first appears. A true reading will only be given when all the 12 volt equipment is switched off and when neither charging system is in operation.

The red light may come on when the appliance is switched on, this is normal - current surges cause momentary voltage drop. It is important to remember that the battery monitor is not a charging indicator.

The fact that the green light is on does not mean that the battery is fully charged. Even with a flat battery the green light will glow if either charging system is operating, due to the high terminal voltage present at the battery.

NB: When using current from the vehicle when the charging switch is in the "TOURING" position, the red light may glow. This is due to voltage drop between the batteries.

There are four fuses fitted to the control unit. The main fuse is fitted in the smaller of the fuse holders on the front panel and is rated at 1 amp; it is a standard 20mm x 5mm glass quick blow fuse.

This fuse holder can only be removed with a screwdriver (this is to comply with the electrical safety regulations).

The three amp fuses mounted on the right of the panel protect the various accessories connected to the control unit and are standard 1 1/4" glass quick blow fuses. Access to the fuses is by turning the holder a quarter of a turn in the direction of the arrow.

All fuses are available world wide from electrical and radio dealers. Under no circumstances should a fuse of a different type of value be fitted.

The three 10 amp fuses protect the following items:-

Lighting, water gauge, water pump, cassette toilet and extractor fan - To determine which fuse protects each item, switch everything on and then remove each fuse in turn.

In addition to the fuses fitted as standard a further 35 amp fuse is fitted adjacent to the second battery to protect against incorrect polarity.

WARNING

In the event of a fuse blowing there exists a fault in the circuit protected by that fuse, and the cause should be ascertained before replacing the fuse.

It is important to remember that a fuse is fitted for the protection of the circuit and is a safeguard against fire and injury.

Never remove the front panel with mains or batteries connected. There are no user serviceable parts inside.

THE SECOND BATTERY

All the habitation 12 volt electrical requirements except the refrigerator are taken from the second battery.

HOT WATER SYSTEM

The hot water system consists of a storage hot water heater operated by either gas or mains electrics, a mixer tap and on/off control.

The hot water supply is controlled by a mixing valve located adjacent on the front of the sink unit.

The mixer valve is used to adjust the water temperature by mixing the hot and cold water, and the on/off tap controls the flow of the mixed water from the outlet spout.

CASCADE 2.GE WATER HEATER

The Cascade 2.GE is a storage water heater of 7 litres (1.6 gallons) capacity with an external balanced flue operating on either L.P.G. or mains (240 volts) electricity.

OPERATION ON L.P.G.

The water heater is controlled via its own wall switch panel. Ensure the gas supply is turned on at both the gas cylinder and the water heater isolating taps, and 12 volt supply is available by switching on at the switch control panel. Switch on the water heater at the wall switch, the green light will illuminate indicating that the heater is switched on and that power is reaching the heater and the starting cycle has been initiated.

Providing no other lights come on all should be satisfactory and the water heater will be operational. Should the green and yellow light come on together, this shows that the voltage at the heater is too low and that the heater has automatically been switched off. The yellow light will go out and the heater will switch itself on again when the voltage is restored.

The green and red lights together show that the heater has failed to light during its 10 second ignition period, and has shut itself down. This is usually due to failure of the gas supply or, air in the gas pipe.

Switch off and on again, which resets the controller and initiates a new ignition sequence. To clear air from the gas lines several repetitions may be required.

TEMPERATURE AND ADJUSTMENT

The heater as fitted, has the thermostat set at maximum (approx. 68.C). If the water at the taps is hotter than required, the temperature may be adjusted as follows:-

a). Switch off heater at the controller and allow to cool for at least 10 minutes.

b). Remove cowl from outside of vehicle (4 cross headed screws).

c). Lift the flap and turn the toothed wheel inside it. Each tooth is about 1.5 degrees centigrade.

d). Replace the cowl, making sure it locates firmly on the square aluminium flue nose. Switch on and check temperature after about half an hour.

OPERATING ON MAINS ELECTRICITY

With the vehicle connected to site mains, electrical power may be used instead of gas to maintain a supply of hot water. When switched on the immersion heater will maintain the tank at about 70 degrees centigrade under thermostat control. The mains immersion heater thermostat is not adjustable.

The immersion heater takes approximately 3 amps when heating and this load must be taken into account if the site supply current is limited.

NOTE: For quick warm-up both gas and electrical supplies may be used. Use only one supply to maintain working temperature.

WINTER STORAGE

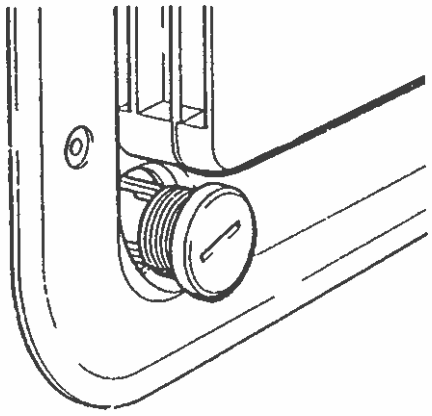
If the vehicle is to remain unused during freezing weather then it is advisable to drain the system down. Position the vehicle so that water from the supply tank can be drained without it causing a problem, remove drain plug and drain the tank.

With the waste tank tap open and the water heater shut down, open the hot and cold taps and allow the pump to empty the pipe work as far as is possible.

In conjunction with the above the Cascade 26E water heater must be drained to prevent frost damage.

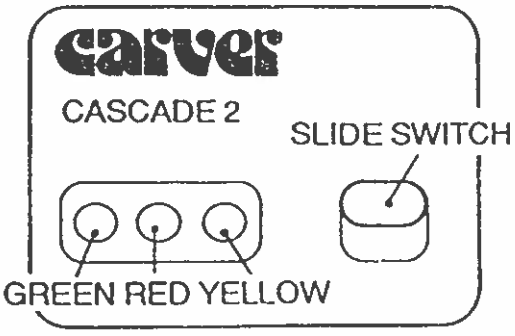
The drain plug which is on the outside of the flue cowl should be unscrewed to permit draining. When the end of the drain plug thread is reached the plug can be pulled out a small distance, yet still be retained in the thread and permit draining to occur.

To allow the system and tank to drain effectively, leave all taps open for at least 30 minutes to ensure complete drainage.



The gas side of the Cascade 26E water heater is operated by this remote controller.

Before switching on the gas burner or the mains immersion heater, make sure that water flows from the hot tap, this indicates that the water heater is full.



WARNING

Water heaters (as with other gas appliances) should be switched off and gas cylinder valve(s) closed whilst caravan is in motion.

WARNING

Only a suitably qualified person should be allowed to work on the water system or appliances in this vehicle.

WASTE WATER TANK

The waste water tank incorporates a drainage tap and large access screw cap for internal cleaning.

It is located under the floor on the offside.

The tank should always be drained before driving away from a site or as soon as practicable, to avoid carrying unnecessary weight.

After emptying the tank pour a small quantity of disinfectant down the sink waste, this will help to stop any tank odours. The tank capacity is 28 litres (6 gallons).

BLOWN AIR HEATER

The heater is fitted in a compartment to the front of the wardrobe, with warm air ducts to the interior adjacent to the sink unit. The air for both heating and combustion is taken from the exterior with the combustion exhaust discharging through a special flexible pipe to the exterior at the rear.

Fresh air ventilation is only necessary for personal comfort and to reduce condensation.

To start the heater turn on the gas supply, and put the electrical switch to 'ON', the indicator light will come on. The starting cycle is then completely automatic.

IMPORTANT: THIS HEATER MUST NEVER BE OPERATED WHEN THE VEHICLE IS IN MOTION.

RETRACTABLE THREE POINT SEAT BELT

See VW handbook.

PORTA POTTI

Located in the bottom of the bench seat unit.

For correct operation see the makers instruction leaflet.

M A I N T E N A N C E

GENERAL

The working surfaces of the furniture should be cleaned with a damp cloth. The woodgrain surface should be cared for in the same way as household furniture and treated with furniture polish.

Curtains should be dry cleaned rather than washed to minimise shrinkage.

Periodically, check all hinges, catches and slide bolts for slack screws, tightening as required. A drop of oil on hinges and metal catches will help to keep your vehicle rattle free and in good working condition.

The external GRP roof dome should be protected with normal quality car polish. Ensure all dust is removed by adequate washing followed by leathering before polish is applied.

If the vehicle is stored unused in a hot climate the curtains or blinds should be drawn to protect interior from excessive heat.

We strongly advise owners to study the chassis manufacturers handbook and to carry out service and maintenance procedures.

REMOVAL OF APPLIANCES FOR MAINTENANCE

This section outlines the correct method of gaining access to, and removing the appliances for servicing and/or maintenance.

GENERAL

Points applicable to all appliances:-

Turn off the appropriate gas tap before attempting any removal.

Snap cap covered screw heads. Caps can be removed by sliding a thin blade under the edge and lifting. Caps are reusable.

All screws have the star slotted head.

When refitting gas appliances it is essential to check for gas leaks at reconnected gas connections before refitting panel etc.

In all cases refitting is the reverse of removal.

WARNING

DO NOT USE A FLAME TO CHECK FOR LEAKS

Connections should be checked for leaks by applying soap/water solution and watching for bubbles.

W A R R A N T Y

AUTOHOMES (UK) LIMITED

You are now the owner of an Autohomes (UK) Limited motorcaravan and can join thousands of other proud owners who are enjoying the benefits of their Autohome. We hope that you will have many years of trouble free motorcarvanning but if you require any assistance, the following is for your information.

WARRANTY

The total vehicle, i.e., conversion and chassis cab will have different warranties.

The conversion has a 12 month warranty from the first date of purchase from Autohomes (UK) Limited.

The base vehicle will have a warranty (usually 12 months or more) from the base vehicle manufacturers.

WARRANTY REPAIRS

Generally the base vehicle warranty repairs can be undertaken by the respective motor vehicle dealer, i.e., VAG, Vauxhall.

Any repairs required to the conversion should be notified to your original selling dealer, who will make arrangements for the repairs to be carried out at his premises, your nearest qualified repairer, or at our Specialist Repair Workshop in Poole.

Please discuss your needs with your original selling dealer who is there to assist. The blue warranty registration card will give you further information regarding the warranty procedure.

AUTOHOMES SERVICE DEPARTMENT

At Autohomes we prefer to see your motorcaravan being used and therefore offer the following service:-

Replacement parts can be obtained from your Dealer or by contacting this office direct.

Repairs and refurbishment are always being undertaken in our separate workshop area on all makes of vehicles.

Accessories and a wide range of options can be fitted in our specialist workshop.

If you require any assistance either contact your Autohomes dealer or ourselves at:-

Autohomes (UK) Limited
59 Old Wareham Road
Poole
Dorset
BH17 7NJ
Tel: (0202) - 715000

01202 691000