

**Romahome**

# DUO OUTLOOK



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# OWNER'S HANDBOOK

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## CONTACT DETAILS:

### ROMAHOME LTD

Prospect Road, Cowes, Isle of Wight, PO31 7AD

Contact Numbers

Tel: 01983 292451 Fax: 01983 290266

## WARRANTY

If you have any problems, which need urgent attention please, phone your dealer and follow your phone call by writing with full details of your problem.

**IMPORTANT** NO ACTION WILL BE TAKEN BY US UNLESS YOU QUOTE IN ALL COMMUNICATIONS YOUR UNIT CONSTRUCTION NUMBER (SEE PLATE DRIVERS DOOR). These conditions in no way affect your statutory rights.

The warranty is subject to both the conditions detailed herein and those in our **CONDITIONS OF SALE** a copy of which will be supplied upon request.

Romahome Ltd (the Company) warrants that the owner detailed in this warranty will, subject to the Company's conditions, receive free repair and replacement of any part, except those detailed in sections 5 and 8 below, which as a result of defective workmanship or materials, require repair or replacement within 12 months of the date of first registration with Romahome Ltd. No third party or employee can be considered a legal representative of Romahome Ltd and has no right to assume on the Company's behalf an obligation of any kind, expressed or implied or to bind entirely.

Any statement made by employees of the company must have been confirmed in writing within 10 days, otherwise the Company cannot accept responsibility.

Any customer's letters or instructions should be addressed to the Company and the Company shall not be responsible for any loss, damage or misinterpretation arising from phone calls not confirmed in writing or with correspondence sent to its employees.

The warranty is subject to the following conditions.

1. The product has not been overloaded or used for racing or time trials or used for hire or reward or otherwise misused under conditions not normally considered suitable for products of this type.
2. The product has been maintained in a proper manner.
3. The product or any part of it has not been altered, modified or repaired without the Company's prior consent.
4. The owner immediately notifies the Company in writing in discovering a fault due to defective workmanship or materials.
5. That any claim under this warranty is not covered in respect of parts damaged accidentally.
6. That all repairs are carried out by the Company, or after receiving prior consent from the Company, it's nominated representative
7. The warranty form has been completed and recorded at the Company's registered office.
8. Parts which are not covered by this warranty are the base vehicle and all its parts, Cooker, Refrigerator, Heater and all parts covered normally by the respective manufacturer's own warranty (please send their registration cards where applicable, direct to them). Fitted parts such as fluorescent tubes, light bulbs, glass or similar sundries are not covered. Unless it is shown beyond any doubt that the fault lies within the product as built by Romahome Ltd. no claim for any electrical fault will be accepted where clients or third parties have carried out their own wiring on the base vehicle or made modifications to the unit wiring.
9. The unit is supplied in good working condition and signed for as being as such by the customer or stockist. No liability for damage, blemishes, shortages or missing parts can be considered unless the customer or stockist notifies the company in writing within three days of the date of supply from our factory.
10. The customer will return, at the Company's request, any faulty part, which has been or is to be replaced under warranty.
11. The warranty only applies to goods sold and used within the European Community.

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## SPECIFICATION

The **CITROEN ROMAHOME DUO OUTLOOK** is classified as a micro motor caravan and comes within the Habitation Code of Practice as recommended by the National Caravan Council (**NCC**) and the Society of Motor Manufacturers and Traders (**SMMT**) under the requirements of a small motor caravan conversion. It is based on proven Citroen Berlingo chassis cab.

### FULLY FITTED DUO OUTLOOK

Maximum Authorised Laden Mass:	1950 kg
Actual Vehicle Mass	1575 kg (Driver Included)
Vehicle Operating Mass:	1650 kg (1 passenger included)
Spare Mass Capacity	300 kg

For base vehicle information please read Citroen base vehicle handbook

The **ACTUAL VEHICLE MASS** is the kerb weight of the base vehicle, together with the motorhome conversion "in running order" and including bodywork, coolant, oils, fuel, spare wheel, all possible fitted extras for the motorhome as detailed in our price list, drinking water, gas and 75kg for the driver.

(The **ACTUAL VEHICLE MASS** is quoted to include extras whether you have fitted them or not).

**VEHICLE OPERATING MASS** is the **ACTUAL VEHICLE MASS** plus an allowance of 75kg for each passenger for whom a seat is provided.

The **SPARE MASS CAPACITY** is the extra mass, which you may carry and is calculated by deducting the **VEHICLE OPERATING MASS** from the **MAXIMUM AUTHORISED MASS**.

The following definitions apply:-

The **MAXIMUM AUTHORISED MASS** is the maximum technically permissible laden mass as defined by the vehicle manufacturer.

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**All weights are subject to a plus or minus 4%**

### FULLY FITTED DUO OUTLOOK

#### EXTERNAL SIZES

	Metric	Imperial
OVERALL LENGTH:	4.95m	16ft ½ ins.
OVERALL HEIGHT: (incl. roof-light)	2.3m	7ft 6 ½ ins
OVERALL WIDTH: (mirrors folded)	1.75m	5ft 7ins
OVERALL WIDTH (mirrors extended)	1.96	6ft 5¼ ins

#### INTERNAL SIZES

Internal height in Galley	1.83m	6ft
Internal height in Dinette	1.65m	5ft 5 ins
Single Bunk size	1.855m x 735mm	2ft.5ins x 6ft 1ins
Double bunk size	1.855m x 1.60m	5ft 3ins x 6ft 1ins

**Dimensions do not include aerials .**

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## MAXIMUM PAYLOADS FOR MOTOR CARAVANS

Provision shall be made within the Maximum Authorised Laden Mass of a Motor Caravan to accommodate **ALL** of the following:-

### **A. The mass of the vehicle in running order.**

The mass of the vehicle with bodywork in running order including coolant, oils, fuels, spare wheel, and driver.

N.B. The precise definition of mass is laid down in the EEC Directive on Masses and Dimensions of category M1.

A notional mass of 75kg shall be used to simulate the driver.

### **B. Passengers and their luggage.**

75kg for every passenger seated, as defined by the Motor Caravan Manufacturer.

N.B. In accordance with EEC Directive, Masses and Dimensions of vehicles of Category M1 (68kg plus 7kg luggage).

### **C. General Allowance.**

A general allowance of 75kgs.

### **D. Options and Ancillary Equipment.**

1. The masses of all items of equipment offered as options by the manufacturer as stated in the manufacturer's published documentation whether or not fitted at the time of delivery and selected by the dealer/customer from the range of options available.
2. The mass of any item for which the motor caravan has been specifically designed to accept whether or not fitted at time of delivery.

### EXPLANATORY NOTES

The allowances under "D" shall include such things as batteries, toilets, gas cylinders and contents, bicycles etc, that is to say that if a bicycle holder is either fitted or is offered as an option, the mass of a bicycle shall be allowed for.

If a supplementary battery is fitted its mass should be allowed for

The manufacturer may specify where any gas cylinders should be stored thus the mass of the recommended cylinder must be allowed for.

## **WEIGHT DISTRIBUTION**

It is recommended that heavy items are stored so that their weight is distributed over both axles. You should avoid excessive weights behind the rear axle. This includes the galley.

If you have to site a heavy load in a particular position, you should equalise the situation by having a compensating load elsewhere, so that the weight distribution remains even and you remain below the limits quoted for each axle. The maximum load for each axle is quoted in the vehicle handbook.

## **IMPORTANT**

**PLEASE TAKE CARE TO ENSURE THAT YOU HAVE ALLOWED FOR THE MASSES OF ALL ITEMS YOU INTEND TO CARRY IN THE MOTOR CARAVAN  
e.g. passengers, optional equipment essential habitation equipment and personal effects such as clothing, food pets bicycles, sailboards, sports equipment etc.**

## **WARNING**

**UNDER NO CIRCUMSTANCES SHOULD THE MAXIMUM TECHNICALLY PERMISSIBLE LADEN MASS OF THIS MOTOR CARAVAN BE EXCEEDED.**

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### **STANDARD EQUIPMENT**

- Blinds / Fly screens / Curtains
- Two gas burner hob & grill
- Sixty litre, three way fridge gas, 240volt, 12volt
- Mains electric installation, transformer / battery charger & earth leakage trip circuit breaker.
- Secondary battery with split charging relay (14kg)
- Stainless Steel sink with cold water tap & chopping board. GRP sink on toilet option.
- Integral 20 litre fresh water tank & 20 litre waste water tank.
- Square fluorescent light ( only in the Duo)
- Free standing table & step
- 5 inch thick cushions in colour co-ordinated upholstery in blue, green, or cream.
- Autumn red curtains & Juniper carpet.
- Smoke Alarm

### **OPTIONAL EQUIPMENT**

- Timed controlled Eberspacher Hot water and Hot air system or hot air system only.
- Awning 90" 5 78" 5 102". (Weight 20Kg)
- Upholstered driver and passenger seats in co-ordinated colours.
- Scatter cushions
- Luggage restraining straps
- Dedicated toilet space with Thetford 165 (Chemical Toilet)
- Car reversing distance sensing system.
- Safe (combination or Key)

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### **Seating**

In the **ACCOMMODATION UNIT** the two large inward facing seats provide ample seating for relaxing or dining and have large storage compartments underneath containing where supplied your chemical toilet, ducted warm air heating and mains electrical supply unit.

When relaxing it may suit you to pull the bottom cushion out a few inches to afford you a wider seat.

You have the choice of using these two seats separately, as single **BUNKS** in their normal mode, or by removing the back cushions, and using as two wider bunks. The three support rails, (which are supplied), may be fitted into the recesses to span the gap between the two side bunks, and by pulling the seat bases (not the backs) towards the middle with the seat backs fitted into the remaining gap along the outside edge and providing a **LARGE DOUBLE BED**. There is a bed extension which fits at the forward end onto the two folding brackets just behind the driver / passenger seats.

The bed extension is stored behind the driver & passenger seats.

The secondary battery is under the passenger's seat.

### **Luggage Restraining straps**

The **ROMAHOME** accommodation unit has been designed for comfortable and convenient use by two people. The side facing seats are not suitable for fitting seat belts or lap restraints for either adults or children,

**The FOLDING DINING TABLE** when not required may be stowed in the Luton area.

The **LUTON** (over cab area), may be used for bulky items such as sleeping bags, duvet etc.

The **GALLEY** is partially separated from the accommodation area by two fold-down **WORKTOPS** giving extra working area to the galley. With the supporting brackets in position they should not be used for heavy items. They are intended to act as "splash guards" for times when both the galley and accommodation area is in use. In their upright position they are held by catches, which you should ensure are securely locked in position when driving. They may be used as **BACK SUPPORTS** for "lounging". The cooker worktop must be down whilst the hob is in use.

Avoid putting **HOT PANS** on fibreglass surfaces.

The offside of the galley is fitted with a two burner **HOB AND GRILL**. The use of this is covered by the separate manufacturer's leaflet.

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## **VENTILATION**

It is recommended that you ventilate your unit as much as you are able. On no account should any of the fitted vents be obstructed, particularly those involving installed equipment or the gas storage compartment. **Your safety may well depend upon this.** The roof vent provides useful ventilation. Ventilation may be further increased by slightly opening the side windows. Top hung **WINDOWS** have variable positions, one with the security locks in the first notch. Wider openings are affected by tightening the locking devices on the window stays at the desired position. (They should be loosened before re-adjusting and not forced). However, you must **ALWAYS** ensure that the side windows are firmly and fully closed and it is recommended that roof vents be closed when the vehicle is moving. Ventilation is particularly important whilst cooking or whilst the unit is in use. Without ventilation in a confined space, condensation can become a real problem. It is recommended that for your well being adequate ventilation is allowed when sleeping.

**VENTILATORS** must be kept clean and clear at all times. The flue vent and air circulation vents for your refrigerator should be cleaned at least once every 12 months. There are low-level air vents beneath the refrigerator and in the bottom of the gas storage locker - make sure they are kept clear of obstruction.

## **SMOKE ALARM**

**A Smoke Alarm has been fitted to the ceiling of your Romahome it is recommended this be tested on a regular basis.**

## **WINDOWS**

The side windows fitted to your Romahome are manufactured from Acrylic plastic, care must be taken when cleaning these surfaces, ensure any grit is washed off prior to cleaning with a soft cloth.

## **LOCKS & KEYS**

To help avoid **FROZEN LOCKS** in the winter, you should insert a small amount of glycerine.

We remind you to take, and keep separate, a note of all key numbers.

In case of difficulty, Romahome Ltd does keep a record of key numbers.

## **HIGH WINDS & MOTORWAYS**

Care should be taken when **DRIVING** your motorhome in high winds or on motorways. As a high-sided vehicle, the performance is different from a car. In **HIGH WINDS**, particularly driving from a protected area into a gust, (e.g. passing large vehicles etc.), a strong side-wind can dangerously interrupt your passage and you should therefore moderate your speed accordingly. On motorways or other high-speed roads, the **PRESSURE WAVES** from fast moving lorries or coaches can give you a real buffeting. Keep clear where possible and adjust your speed accordingly.

## **STABILIZERS**

Your **ROMAHOME** is fitted with rear **CORNER STABILIZERS**. It is recommended that these be lowered whilst the unit is in use. **Before you drive off - make sure you have raised them** - a safety idea is to leave the brace across the vehicle clutch/accelerator until you are ready to drive off. Do not lower them to the extent that the unit is raised off the ground.

**STABILISER BRACE** is stowed in the offside Bunk.

**JACK AND JACK HANDLE** are stowed behind the spare wheel.

**PLASTIC WHEEL CHOCK** use of this wheel chock is recommended when using the jack and wheel changing.

**SPARE WHEEL** situated behind the driver's seat is held in place by a large wing nut and steel wedge.

To remove the spare wheel, slide drivers seat fully forward, adjust seat back to vertical, lift tyre cover partially and undo the retaining wing nut by hand remove the cover fully and roll out the wheel.

Prior to removing any of the vehicle's wheels remove the decorative wheel trim.

## **STEP**

The Route 2000 Poly **Step** supplied with your Romahome should only be used on level ground.

For convenience the step may be stowed in the foot-well.

## **TYRES**

Your Romahome is fitted with approved commercial 6 ply tyres,

Michelin 175 x 65 x R14 C 88/90 are recommended.

Tyre pressures are based on commercial use, displayed on driver's door pillar.

**Front 43psi / 3 Bar Rear 54psi / 3.7 Bar**

**Fitting domestic tyres may invalidate your insurance.**

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## **SMOKE ALARM**

**A Smoke Alarm** has been fitted to the ceiling of your Romahome.

Once the smoke alarm has been installed a small indicator light (LED) positioned under the test button should flash approximately once a minute in normal operation. If smoke is detected the unit will emit a loud pulsating alarm until the air is clear.

### **TESTING**

It is recommended that you test your smoke alarm once a week to ensure the detector is working correctly. Push and hold the test button for approximately 3 seconds, A loud pulsating alarm should sound to indicate the correct function. During the alarm condition the light will flash quickly.

### **MAINTAINING**

If the smoke detector emits a short "beep" once a minute the battery is at the end of its life and should be replaced immediately this low voltage warning will be given for at least 7 days. A fresh battery should last for approximately one year. Clean your smoke alarm regularly to prevent dust build up. This can be done using a vacuum cleaner with the brush attachment. Clean gently around the front grilled section and sides.

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## **WATER SYSTEM**

The **FRESH WATER** storage tank is located on the offside against the side of the unit behind the driver's seat with a capacity of 23 litres or 5.1 gals. (see illustration 36)

The waste water tank is under the vehicle (see illustration 46)

The tank is of clear polythene enabling you to judge the amount of water it contains and a breather pipe is fitted. It is important to ensure the **ACCESS HATCH** is water tight by closing it firmly on the rubber seal by turning it clockwise. Ideally the tank should be filled no higher than 40mm from the top.

Water left in the tank for extended periods may become unsuitable for drinking or washing and you should therefore change it as frequently as is practical. The tank is fitted with an **ACCESS HATCH** to enable you to clean it. Please bear in mind that any cleaning fluid you use may taint the water. Baby's bottle sterilising tablets are quite effective and also assist in reducing the polythene taint (which is quite harmless) on new tanks. The tank may be flushed by running water through the filler cap at the same time as turning the tap fully on (taking care not to run dry or overfill!)

The water is fed from the tank via an **ELECTRIC PUMP** which is activated by the tap which contains an on / off electrical switch. When the water system is not required the pump should be switched off.

If the pump is not switched off the system will cycle periodically to maintain the pressure.

You must avoid activating the water pump when the tank is empty as **RUNNING THE PUMP DRY** may cause damage. If the water tank is run dry the pump may require priming.

A hose or showerhead may be attached to the tap if you require it. (standard on the hot water system)

**To DRAIN THE WASTEWATER TANK**, place a suitable container under the outlet to the tank and open the tap. Most of the **HOSE JOINTS** within your system are secured using the Whale quick connect system, or Stainless Steel Jubilee hose clips and you should ensure that these are always securely fastened. Since the waste water tank can build up with solid matter it should be regularly flushed with fresh water to prevent odours working back through the shower and sink outlets flush the waste water tank out with a mild solution of disinfectant.

It is advisable to drain the water tank during periods when your **ROMAHOME** is not in use, particularly during winter periods. The water pump should not be used if water is frozen and there is no free flow as it is liable to damage the pump.

### **DEDICATED TOILET SPACE.**

By using newly designed mouldings, this new and innovative system adds convenience without fuss.

- 1 The basin is used as normal, but when emptying it, tip the basin towards the back of the unit. The water drains into your wastewater tank. It may be necessary to tip water gradually.
- 2 To use the Porta Potty place the basin in the stowed vertical position (see fig. 54)
- 3 Release the catch on the door and with the blinds drawn for privacy you can relax.
- 4 The Porta Potty is secured in place with Velcro, It is important the Porta Potty is accurately located again after removal.

### **Waste Disposal**

Dispose of all waste water where instructed, do not dispose to surface water drains.

To avoid possible damage to sewage purification works, only approved chemical fluids may be used.

Under no circumstances use Coal-tar, Phenol, or caustic based fluids.



## **GAS SYSTEM**

The **GAS STORAGE COMPARTMENT** is sited towards the rear of the near side of your vehicle with external lockable access.

Your **ROMAHOME** may be designed for use with **Butane Camping Gaz** and Gaz valve M16.5 recommended cylinder size 907 (2.72kg - 6lb). or 3.9kg **Propane** but gas connections are very different

**Different adaptor types are not interchangeable.**

Do not attempt to force an adaptor of one type onto a cylinder of another style.

If you have any difficulties whatever they may be, contact your supplier and have the appliance checked.

### **FITTING THE HOSE ONTO THE ADAPTOR BODY**

The M20 nut on the inlet of the hose should be tightened onto the male M20 outlet thread of the adaptor body( thread at 90° from the control knob)

### **FITTING THE ADAPTOR ONTO THE CYLINDER VALVE**

Remove any cap from the valve, Turn the gas knob on the adaptor fully clockwise to the OFF position Place the small thread into the cylinder valve thread and tighten down firmly clockwise using the "Butterfly Wings". Once the adaptor has been fully tightened slowly turn the control knob anticlockwise to the on position. To stop the flow of gas, turn back to the OFF position.

### **CHANGING THE GAS CLINDER**

When the gas cylinder is empty, turn the control knob fully clockwise to OFF. In this position you can then unscrew the adaptor, turning the Butterfly Wings fully anticlockwise. Then follow the procedure outlined above for the new cylinder.

### **IMPORTANT**

After installing the adaptor check the soundness of the installation using a soap solution (Detector for example) The control knob must be fully in the OFF position for connection.

If after turning the knob fully off the appliance remains alight, do not attempt to disconnect the gas adaptor from the cylinder but contact your dealer or gas supplier immediately.

In normal conditions of use, to ensure correct operation of the installation, it is recommended that this adaptor is changed within 10 years of date of manufacture.

Never **CHANGE A GAS CYLINDER** or disconnect a supply hose whilst smoking or near a naked flame or any electrical item likely to cause a spark such as a mobile phone or cigarette lighter.

Leave mobile phones and cigarette lighters in the cab.

The gas cylinder is connected to your vehicle with a **RUBBER HOSE** (check regularly) and then to a fitted copper pipe. The copper pipe must not, as far as is practical, be disturbed or flexed in a manner which could cause damage and create a gas leak.

You must make sure that the **VENTILATION** to this locker is never obstructed.

Check regularly ventilation and flues are clear of spider's web etc.

Gas cylinders in use must only be stored in their **UPRIGHT POSITION** and **NEVER** on their side. SMMT code of practice for construction and use of Motor Caravans also recommend that spare cylinders are stored in an upright position. The main supply cylinder is retained in place with a retaining strap, make sure it is always in place and the cylinder is secure.

The **REGULATOR** should always be screwed firmly into position and never allowed to become loose and never over-tightened.

**WHEN TRAVELLING**, you should always ensure that the **gas supply has been turned off** at both the supply taps inside your **ROMAHOME** and at the gas cylinder itself. If you are involved in an accident, leaking gas can be a major hazard.

You should regularly check, or have checked, your gas system for leaks. It is in a moving vehicle where vibration could cause damage over a period of time. **RUBBER HOSES** may be affected by the corrosive nature of the gas and should be replaced as necessary **WITH THE APROVED TYPE** no later than the expiration date printed on the hose.

In the interests of safety, replacement parts for an appliance should conform to the appliance manufacturer's specification and should be fitted by them or their authorised agent.

You should **NEVER** allow your **GAS OR ELECTRICAL SYSTEMS** to be tampered with or altered other than by a qualified tradesman.

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## **SAFE HANDLING OF LPG GAS**

1. Handled properly, LPG is a safe, convenient and effective energy source.

If handled incorrectly LP Gas can be hazardous. People have been injured in their homes, caravans, tents and boats by accidental fires and explosions involving gas from cylinders used with heaters, cookers, lights and refrigerators. These accidents can be avoided!

Accidents most frequently occur as a result of gas leaking when people are assembling appliances or changing gas cylinders or cartridges.

LP Gas is Butane or Propane and is stored as a liquid under pressure and a small leak can produce a large volume of highly flammable gas. The gas is heavier than air so it collects near the floor or ground and can be ignited at a considerable distance from the source of the leak resulting in a fire and possibly an explosion.

Propane or Butane should be used as recommended by the appliance manufacturer; they are not interchangeable. LP Gas should not be used with appliances approved for other gases, e.g. natural gas.

2. If you smell gas, do not use the appliance. Find the leak and have the appliance checked.

3. Before attaching a new cylinder to the appliance, ensure that the appliance tap is closed (turned fully clockwise).

Make sure the adaptor is screwed fully home into the connection keeping it upright and without using tools. Screw hand tight only.

4. Test for leaks by applying a branded gas leak tester to all joints and connections. Never use a lighted match or any other flame. When appliances are not in use, close the valve on the cylinder.

5. All gas appliances must have air to operate properly. Failure to observe this simple rule could be highly dangerous. Do not obstruct room ventilation or appliance flues. Regularly check they are not blocked or deteriorating.

6 **Butane** is supplied in the UK in Green, Blue, or Aluminium Cylinders.

All these have a left hand thread **Except for Camping Gaz, which has a special female right hand thread. Calor 7kg& 15kg Aluminium cylinders have a special clip on connection.**

7 **Propane is supplied in red cylinders, which have a female left hand threaded connector**

Propane will work in temperatures as low as - 40°C and is therefore suitable for all winter motor caravanning

8 **Propane and Butane gas regulators are not interchangeable.**

Normal storage pressures are; Butane cylinder 1.9 bar or 28psi Propane cylinder 6.9 bar or 100psi

9 Always refer to the manufacturers instructions for individual appliances.

### **Carbon Monoxide (CO)**

It can cause drowsiness, dizziness, headaches, palpitations, chest pains, sickness or stomach pains.

Never use your cooker as a means of heating always ensure there is adequate ventilation when cooking. When LPG does not burn properly Carbon Monoxide may be produced, fumes from partially burnt gas can kill. Carbon monoxide is invisible, odourless, tasteless.

Watch out for yellow or orange flames, soot deposits on cookware, these are all **danger signs that CO is being produced.**

Carbon Monoxide detectors are readily available from retailers you may consider installation.

Ensure the Cooker top is clear prior to ignition. In the event of ignition failure vent un-burnt gas before attempting ignition again. Choose the burner best suited to the pan's size and ensure the pan is centred on the pan support

## **BEFORE MOVING OFF**

- 1 **Turn off gas supply at the LPG cylinder** and all appliances.
- 2 Raise corner stabilisers.
- 3 Lower and secure roof lights, doors windows and vents.
- 4 Secure all loose items.
- 5 If in use switch fridge to 12 volt.
- 6 Disconnect mains hook-up.
- 7 Stow away waste water facility.
- 8 Stow chopping board if travelling over rough terrain.
- 9 Refrigerator door secured by travelling catch

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## **ELECTRICAL SYSTEM**

We use internationally recognised systems and coloured cables. If you wish to know more about wiring systems, you should refer to an approved automotive electrical handbook.

### **FUSES**

An inline fuse protecting the Zig X7 transformer can be found under the passenger's seat (see illustration 20) The fuses protecting the conversion's equipment can be found under the Bonnet (see illustration 19)

You should always carry spare fuses for your Citroen, not only to cover the vehicle requirements but those for the **ROMAHOME** as well.

The **12volt FLUORESCENT LIGHTS** are activated by the switch on the side of the light fitting.

### **EARTHING**

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The terminology of "earth" in the automotive industry for your 12-volt system is actually for the negative return. The returns all run to a number of "earthing points" and then (in accordance with common practice), back through the metal body to the power source. The cooker and sink/drain (if metal) are earthed when you have mains hook up.

Wiring for the internal lights of the Romahome Outlook runs behind the roof panels.

The earthing points are situated at the forward end of the nearside bunk, under both water tanks and also under the passenger seat.

**IMPORTANT** Your **MAINS HOOK-UP** requires earthing in the same way as your domestic supply. On most sites an approved supply, earthing will be through the supply cable from the camp supply to your **ROMAHOME**. For further protection we fit an "**EARTH LEAKAGE TRIP**" which cuts the power in a microsecond if there is a leak to earth. However, **YOU MUST BE AWARE** that on some sites particularly continental, the earth cable may be faulty or even non-existent. If this coincides with "reversed polarity" in the supply your **ELCB** will be rendered ineffective and you have a potential problem. We therefore strongly recommend that you either fit into your mains circuit a **POLARITY SWITCH**, preferably with a buzzer which is activated on reverse or alternatively, use a tester on the camp supply before you connect.

To access to the **EARTHING POINTS**, remove the offside and nearside water tank covers. You should ensure that these points remain free of corrosion and protected with Vaseline. Earthing points are also located on the rear door pillar.

## **RECOMMENDED PRECAUTIONS FOR CONNECTING TO A MAINS SUPPLY**

1. Before connecting the Romahome installation to the mains supply, check that:-
    - a) The supply available at the pitch supply point is suitable for the installation of the Romahome and it's appliances. b) the main switch is in the OFF position.
  2. Remove or raise any cover from the electricity inlet provided on the Romahome 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 Romahome main switch.
  5. Check the operation of circuit breakers, if any fitted in Romahome.
  6. **IN CASE OF DOUBT CONSULT THE ROMAHOME DEALER.**
  7. To disconnect reverse the procedure described in Paragraphs 2 to 4 above.
  8. The Romahome electrical installation should be inspected and tested once a year.
- The following codes have been used in the wiring diagram.

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## ELECTRICAL SYSTEMS - GENERAL GUIDANCE TYPICAL POWER CONSUMPTION REQUIREMENTS

The power available from your vehicle battery will depend upon which model you have. You should refer to the vehicle handbook or the local dealer for this information.

Typical power abilities are: Citroen Duo Outlook Diesel 42 amph  
But these should be verified on your own vehicle.

<b>CONSUMPTION</b>	<b>12 volt supply</b>	<b>220/240 volt supply</b>
Water pump	2.0 amp	-----
2 x 8 W fluorescent	1.33 amp	-----
10 W berth light	0.83 amp	-----
85 W refrigerator	7.1 amp	0.37 amp
2000 W kettle	-----	8.7 amp
1300 W toaster	-----	5.6 amp
1000 W microwave	-----	4.3 amp
100 W T.V.	8.0 amp	0.45amp

(The above is approximate only - please obtain advice if in doubt)

You can estimate how many hours capacity your battery will provide by adding the amperage of the equipment in use and dividing into the battery amperage. Batteries are usually quoted as the available amperage over a 20-hour discharging period. Discharging faster than this will reduce the amperage available.

e.g.

40 AMP/HR BATTERY AT 20 HOUR RATE			50 AMP/HR BATTERY AT 20 HOUR RATE		
DISCHARGE (Amps)	DISCHARGE (Amps)	CAPACITY (Amps/hrs)	DISCHARGE (Amps)	DISCHARGE (Amps)	CAPACITY (Amps)
1	40	40	1	60	60
2	20	40	2.5	20	50
3	12.5	37.5	3	16.5	49.5
4	8.5	34	5	8.7	47.5
8	3.75	30	10	3.8	38.0

e.g. 10 watt berth light at 0.83 amps plus the T.V. at 8amp = 8.83 amps. With a battery of 40 amps the maximum time would be 3.75 hours. However voltage falls as a battery becomes discharged and this will increase the consumption (amperage). You should therefore always err on the side of caution.

Campsites generally offer one of two mains hook-up capacities limited to either 10 amps or 16 amps. You must therefore bear this in mind when considering your total mains power requirement.

If you wish to fit a transformer to run your 12-volt appliances from a higher voltage, you should only use an approved type. The extra low voltage at the terminals of the supply unit should be maintained between +/- 1 volt of 12V with applied loads varying from 0.5 amps to the maximum load of the supply unit. AC ripple should not exceed 10%.

If you have the factory fitted optional mains hook-up, which includes the ZIG X7 transformer you can charge your battery at up to 10 amps/hr (depending on which you have) and this should be taken into account when making your calculations.

### **COOKER AND GRILL OUTPUT.**

The total heat output of both appliances is 4.6kw. Please follow the instructions laid out in the manufacturer guide with regard to operation and maintenance



## **MAINS ELECTRIC HOOK-UP**

In connecting your Outlook to a camping site **MAINS ELECTRIC** hook-up option, either in the UK. or elsewhere, you must make sure the connecting cable you use is to an approved design and standard. As there are a number of different site connections, depending upon which country you are in, you will require not only the main connecting cable (recommended 25 metres) but short approved adapter cables.

The polarity of the mains supply (particularly on the continent) can be opposite to the recognised British Standards. If this is the case, you should either temporarily swap the live and neutral wires over in the site connecting cable or, better still, have a polarity changeover switch fitted inside your unit. Incorrect polarity may damage some of your electrical equipment and will certainly render your **RCD** ineffective.

We strongly recommend that you seek specialist advice on your requirements, thus ensuring your safety.

A **Residual Current Device** (RCD), sometimes called an Earth Leakage Trip, is to protect you from electric shock and earthing faults, immediately cutting off the power supply. After correction of the fault, the RCD (main switch) should be switched on again. If it won't stay on then you still have a fault. The RCD should itself be frequently tested by pushing the test button.

**The Miniature Circuit Breakers** (MCB) 5 amp and 10 amp act in a similar way as a fuse, cutting supply in the event of an **OVERLOAD** situation. After correction of the fault, they may be switched on again.

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Mains electric power is taken from the **MAINS INLET** to the **CEC 225 MAINS INLET**, which incorporates the **RCD** and **MCB**.

Mains electric power is taken from the 10 amp **MCB** to the **13 AMP SWITCHED SOCKET** in the face of the near side bunk, providing mains power for your use.

It also supplies for your possible use a **12-VOLT POWER SOCKET**. With a mains hook-up you can therefore have both 12 volt and 220/240-volt power at the same time. You must ensure that only 12-volt appliances are used with this socket and that any 220/240-volt appliances are restricted to their own supply. In both cases you must remain below the amperage available for the circuit.

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## **BATTERY CARE**

Never expose a battery to a naked flame or spark, there may be hydrogen present.

The Battery contains Sulphuric Acid, which is very corrosive. When handling a battery protect hands and face. In case of contact with the skin rinse immediately with copious amounts of clean water.

**REMOVAL OF BATTERY** Disconnect the battery leads Negative lead (-) first.

**REFITTING THE BATTERY** Connect the positive lead (+) first. Refit the holding clamp.

### **PRECAUTIONS**

Ensure posts and terminals are clean. If they become sulphated, disconnect and clean them.

**NEVER** disconnect the leads when the engine or appliance is running.

**NEVER** recharge the battery without first disconnecting the leads.

If the battery is fitted with removable filler plugs ensure the electrolyte covers the battery plates.

Both types of battery should be topped up with distilled water.

In case of slight over filling protect the terminals with grease.

**When disconnecting the primary battery** ensure the ignition is switched off. If the ignition is not switched off the system may still be energised drawing power from the secondary battery.

If any vehicle's functions ie. lights wipers etc. are malfunctioning this may be overcome by disconnecting the primary battery for at least five minutes. This will reset the **Engine Control Unit (ECU)** The time and date display on the dash will have to be reset. Instructions to do this are in the base vehicle hand book.

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### **CHARGING A BATTERY**

The battery leads must be disconnected from the battery. The voltage must never exceed 15.5 volts and the charging current must never exceed 20% of the rating marked on the battery casing,

(e.g. L1-200 maximum current 40 amps) Duration of charge 24 hours.

Completely discharged batteries may have to be connected for several hours before accepting a charge current. Only battery chargers with a constant regulated voltage output should be used.

After charging a battery, leave it for an hour before reconnecting it, a spark may cause any hydrogen present to explode.

During periods of intensive use or temperatures of 30C° and more ensure that the electrolyte never falls below the top of the battery plates. Top up with distilled water if required.

**If the vehicle is to be taken out of use for periods of more than one month, the battery should be disconnected**

### **Exhaust Extensions**

Romahome Berlingo have a Stainless Steel extension piece added to the length of the exhaust pipe (see illustration 44)

It is important that the joint between the extension and the exhaust pipe are checked for corrosion regularly. If your exhaust system requires changing ensure your exhaust extension is not discarded as it will outlast the rest of your exhaust system and if you require a new extension you may order this part through your dealer or through Romahome Ltd. The contact details are in your vehicle handbook.

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**ZIG X7 TRANSFORMER**

Located Under the passenger seat. When the transformer is connected to the mains supply, (via a Mains hook up lead) it is capable of charging a secondary battery up to 10 amps (depending upon the make you have) continuously and will automatically reduce its charging rate to zero as the battery condition improves. The unit will also provide enough power to enable equipment to be used at the same time as the battery is being charged.

**An X7 Isolation switch** (located beside the X7 under the passenger seat) (see illustration 39) is fitted as an added safety feature. This should be in the OFF position before connecting up the mains power, as a precaution against power surges. Switch on both isolation switch and the fridge 240V switch after the mains power is connected.

12-volt power for the 3-way refrigerator is drawn direct from the vehicle battery through a 20 amp in line fuse and relay.

The ignitor wire for the fridge with electronic ignition is 1mm yellow cable "scotch locked" into the 1mm-green/mauve cable within the passenger dash locker.

For vehicles fitted with an optional 3-way refrigerator, preference should be given to running the appliance with 220/240 voltage whenever this is available.

The ZIG X7 provides 12-volt power to the Romahome circuit enabling you to run the built in water pump etc. It will not, however, supply 12-volt power to your refrigerator, which has a high amperage requirement.

If you do not have a secondary battery, you may ignore that part of these instructions.

When the X7 power pack is connected to the mains supply, it is capable of supplying 13.5A of power to charge a battery and/or supply the 12V accessories. The output voltage is set at 13.8V and remains stable as the loads drawn from the accessories is altered. Therefore battery overcharging is eliminated, as the output voltage cannot increase above this pre-set level.

Because the output is stable, battery charging time is reduced and on-board accessories can be safely powered direct from the unit without a battery in circuit.

The X7 has automatic safety features including over voltage protection (OVP) to prevent the battery being overcharged in the event of a fault, it is fully protected should the battery be accidentally connected incorrectly. It also includes a current limit circuit, protecting against short circuit an/or faulty appliance. All these features are self re-setting when conditions are returned to normal.

Please refer to manufacturers instructions for further information.

Power is drawn from the ZIG X7 panel as follows:-

The water pump and lights through a 5-amp fuse.

Heater (if fitted) through 5 amp in line fuse.

12-volt power socket through 10amp fuse.

**Vehicle Lights**

This vehicle is fitted with one rear fog lamp on the near side and one reversing light on the offside.

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## **REFRIGERATOR**

Please follow the instructions laid out in the Electrolux guide with regard to operation and maintenance of the **REFRIGERATOR**.

The 12-volt power supply to the **REFRIGERATOR** is connected through the vehicle ignition and a manual switch is fitted in the dashboard of your vehicle. (See picture No 37)

To operate the refrigerator from the 12-volt power supply, switch on the dedicated switch. When the ignition is turned on and the engine is running the refrigerator will operate without discharging your battery. The refrigerator has no motor and so operation is silent. It must be level to operate and should be run for 3 hours before you use it.

You should try whenever possible, when stationary, to operate the refrigerator:-

1. On mains electric (if you have that option) to conserve gas.
2. Gas
3. Switch to 12v only when driving, as this power is drawn through the vehicles primary battery.  
( if stationary switch to your secondary battery.)

The refrigerator is normally only operated on 12 volts whilst driving.

At least every year you should ensure that all refrigerator ventilators are clear of debris and dust. You may have to remove the refrigerator to accomplish this.

If you need to **REMOVE THE REFRIGERATOR**, the following procedure should be adopted by competent and gas qualified persons.

- Ensure any 240 volt supply is disconnected.
- Isolate or remove gas supply
- Isolate the 240 volt by removing the fuse from the fridge isolator switch.
- Remove both yellow fuses from under the passenger's seat.
- (Outside) remove top fridge vent and the flue tube.
- Remove the heat shield.
- (Inside) remove the glass top from the hob. Unscrew the hob and tilt backwards (and secure)
- Drill out two pop rivets located on the top flange of the grill opening.
- The grill tray can now be removed by taking out 4 screws and a bolt.
- Remove the wooden panel covered in metal tape.
- Now unscrew the gas pipe from its connection.
- Open the fridge door and remove the four white push on caps to access the 4 posidrive screws.
- Now slide and push the fridge out half way take note of the wiring sequence and disconnect the wires.
- Remove the fridge.

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When using the optional 3 way 240 volt / 12 volt or gas refrigerator, you should note that the 240 volt power is drawn from the on board RCD (Residual Current Device) or the MCB (Miniature Circuit Breaker)

Due to the high amperage requirement it is not practical to run on 12 volt other than from the vehicles own battery when the engine is running.

## **CONDENSATION IN ACRYLIC WINDOWS**

Acrylic is an organic material which absorbs water in molecular form.

This means that water can penetrate the pane and raise the humidity in the double glazing area.

If the external temperature drops, the air between the two panes cools down. The superfluous humidity settles on the coldest side, that is on the inner side of the outer pane.

### **Measures**

An effective way to get rid of condensation is to ventilate the interior of the vehicle in order to reduce the humidity. Humidity is influenced by the air circulation. One could also raise the interior temperature. When cold air is heated up, it can thus absorb vapour. Therefore your window is not defective should there be condensation between the two panes.

However it may take a little time until the condensation disappears completely.



## **MAINTENANCE OF YOUR ROMAHOME**

Your **ROMAHOME** has been built from approved high grade Polyester resins and glass fibres able to withstand rigorous use. You are strongly recommended to give it the care and attention, which it deserves, and so prolong its looks and life, giving you the benefits and enjoyment you and others will appreciate.

The **MAIN BODY** should be kept clean by regular washing with warm soapy water and a soft cloth. Removal of bird lime is particularly important. It is recommended washing down with warm soapy water and waxing quarterly using a Romahome approved wax. Structural damage to the body may require specialist repair or consultation with a car body repair shop. Please do not hesitate to contact us for advice. This body and other moulded fibreglass surfaces should be protected with Romahome approved wax polish. **WARNING DO NOT USE A PRESSURE WASHER TO CLEAN YOUR ROMAHOME .**

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The windows of your Romahome are made from double glazed acrylic sheeting. They should be looked after by washing road dirt away using a soft clean cloth.

The luxury-insulated lining may be kept clean by wiping with a damp cloth using a weak detergent solution.

The **INTERIOR FIBREGLASS** mouldings should be treated in the same way as the main body.

**UPHOLSTERY** should be brushed, vacuum cleaned or treated in the same way as household furnishings.

You must remember that all **MOVING METAL PARTS** (hinges, locks, threads etc.) require a frequent application of light lubricating oil or grease, particularly those parts which are exposed to the elements. We particularly draw your attention to the corner stabiliser jacking legs and water filler cap.

Exposed **ELECTRICAL PARTS** including any 12N or 12S system, should be kept clean and protected. We recommend a liberal application of Vaseline. Battery terminals should be kept clean and protected with Vaseline.

### **Gas Safety Checks**

The compact nature of motorhomes emphasises the need for regular maintenance and servicing of gas installations. LPG in motorhomes can put stresses into pipe work and appliances not experienced by their static counterparts, this reinforces the need for complete and regular safety checks.

## **ORDERING SPARE PARTS**

When ordering spare parts have as much information to hand as will be necessary to identify the vehicle type, year of build, units construction number (found on driver's door pillar), and the spare part information. See page 2 for contact details.

## **SECURITY**

Security with your Romahome is paramount.

When leaving your vehicle check;

All windows doors and external lockers are securely locked.

Do not leave any belongings on view.

**AN AUTOMATIC SAFETY CATCH** has been fitted to the Romahome's back door to hold the door open. When closing the door it is important that the sprung handle on the inside of the door is gently pulled to release the safety catch before closing the door.



## HEATING SYSTEM

The NCC/SMMT Code of Practice requires that a motor caravan used in normal temperature conditions (i.e. above 0°C) shall have thermal insulation level or be equipped with heating appliances so that a mean internal temperature in the living area is maintained at not less than 20°C. For a small motor caravan the user shall be informed when normal insulation levels cannot be met!

The Duo and Duo Plus are classified as a small motor caravans and are insulated for use in normal temperature conditions. You are advised however, that unless a heating system is fitted, the unit may not achieve the temperature differential levels stipulated.

Your motor home has been designed for comfortable use in average Spring to early Autumn ambient temperatures. For owners intending to use their motorhome for prolonged periods in ambient temperatures below 10°C, in particular temperatures below 0°C, it is recommended that an approved heating system is fitted. Any heater must be of the room sealed type, maximum output 1.6kw, and installed by a qualified fitter in accordance with the manufacturer's instructions and the requirements of ISO 83772.

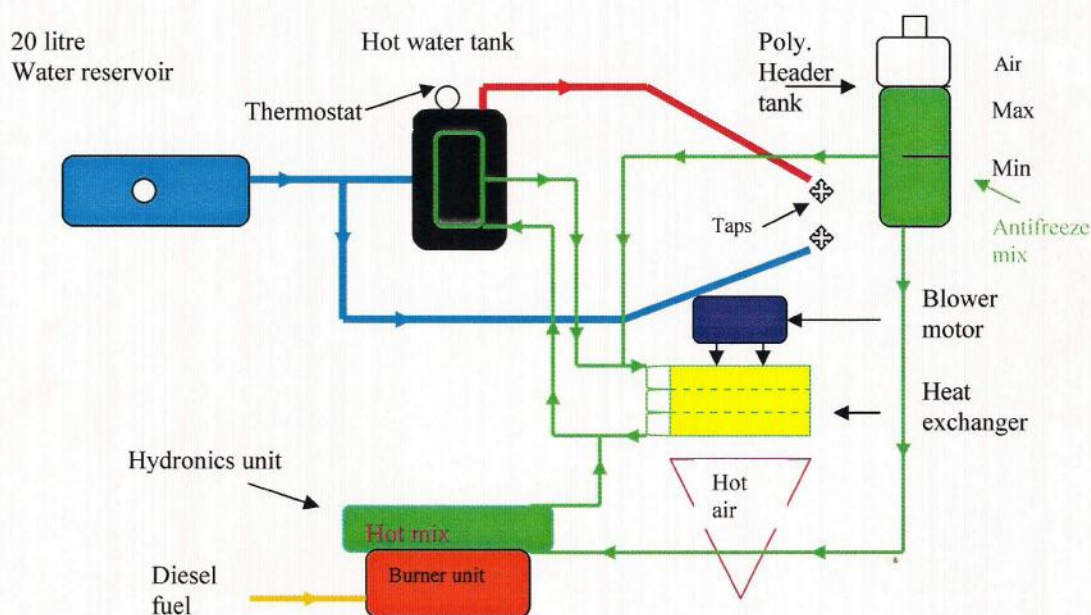
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### EBERSPACHER D4WSC E6079 HEATING AND HOT WATER SYSTEM. ( If fitted)

The Eberspacher heating must never be used whilst driving the vehicle, as this will overload the circuits resulting in blown fuses.

Please follow the instruction laid out in the manufacturer's guide with regard to the operation and maintenance and appended to this manual.

**IMPOTRANT: Before pulling into a filling station switch the heater off.**



The Hydronic burner unit is fitted under the vehicle and is fuelled from the vehicles Diesel system. A mixture of water and antifreeze passes through the system and transmits its heat to the water tank and hot air system.

It is important to keep the cold water system topped up and regular checks made on the Hydronics header tank's anti freeze mix, normally 6 litres of water to 1litre of antifreeze. The antifreeze allows temperatures higher than water's boiling point so allow the system to cool completely prior to risking any contact. Level for the Hydronics header tank can be viewed through the top warm air vent. Water temperatures are controlled from the thermostat on top of the hot water tank.

Air temperature is controlled from the internal thermostat with a hot water only option.



**AWNING (advice on erecting)**

90" X 78" X 102" high or 2m28.5cm x 1m 98cm x 2m 59cm

The canvas and poles are packed separately, so that the first operation is to take out all the metal poles and sort them. There are four legs, two eaves, and one which, when assembled forms the ridge.

- **STEP ONE**

Slot together the ridge poles, which are all, joined together with either an elastic band or spring.

When joined, the shape formed will resemble a roof.

- **STEP TWO**

Take the two eaves poles and join together, then fit to either side of the ridge structure.

- **STEP THREE**

Slot a leg into each of the four corners, but leave the leg poles at half-length so that the whole structure is only at waist height.

- **STEP FOUR**

Unpack the canvas and draw it over the frame, then go inside and lift the whole structure to its full height, joining the legs, (it's easier if two people complete this operation).

- **STEP FIVE**

The whole awning can be moved to its final position at this stage. Once sited, the plastic flaps at the bottom should be turned in, and the legs positioned on top of the mud flaps at the corners.

The Awning was designed to fit most Romahomes, however in the case of the tunnel connection covering the windows its general practice to roll the tunnel cover back to the required size.

- **STEP SIX**

Peg the guy ropes at each corner to the ground. Before pegging around the sides, ensure that both door flaps are zipped together. Start by pegging each corner, so that the canvas is nice and taut.

- **STEP SEVEN**

To join the Romahome to the awning the vehicle should be positioned with the rear door as close as possible to the narrow zip up opening in the back of the awning.

Around this opening is a plastic sleeve with an elasticated drawstring. The sleeve should be pulled over the back of the Romahome and pegged down each side.

You must ensure that the awning does not obstruct the refrigerator ventilators.

For added comfort, the awning comes with an extra length of mud flap, which has suction cups fitted, this should be placed along the bottom edge, under the rear door of the Romahome to stop any draught entering in from under the vehicle.

**Ensure awnings are not at risk from exhaust fumes from gas or diesel appliances.**

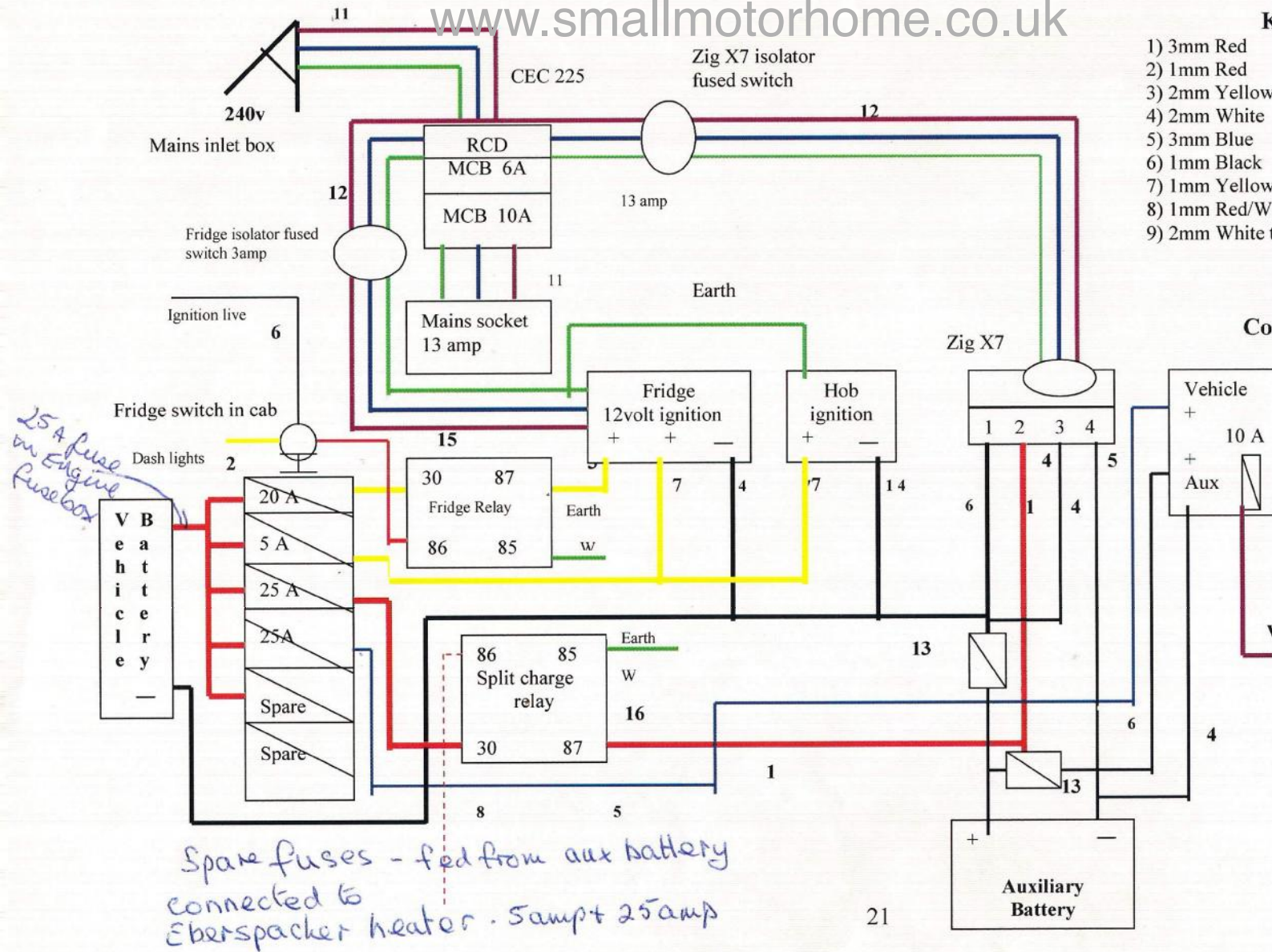
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# ROMAHOME WIRING DIAGRAM

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**IMPORTANT ADVICE****IN CASE OF FIRE****GET EVERYONE OUT, then:**

- 1 Switch off the engine.
- 2 Switch off Fuel/ Gas/ Electricity.
- 3 Raise alarm and call the Fire Brigade.
- 4 Tackle the fire if it is safe to do so.

**FIRE PRECAUTIONS**

- 1 Children should not be left alone.
- 2 Make sure you know the location and operation of escape doors and windows and keep them clear of obstructions.
- 3 Keep all combustible materials clear of all heating and cooking appliances.
- 4 Provide a 2kg dry powder fire extinguisher. It should comply with BS 5423 secured near the main exit door and a fire blanket next to the cooker. Know how to use them.

**VENTILATORS**

Especially those for the gas locker and fridge vents must not be obstructed your safety depends on it.

**BEFORE MOVING OFF**

- 1 Turn off the gas supply and all appliances.
- 2 Raise corner steadies/ legs.
- 3 Lower roof lights/ vents.
- 4 Secure all loose items.
- 5 If in use switch the fridge. to 12 Volt.
- 6 Disconnect mains hook up.
- 7 Stow away any wastewater facility.
- 8 Ensure all doors and windows are properly closed.
- 9 Ensure cab seats are locked in the proper position.
- 10 Make reference to the base vehicle handbook for matters relevant to the motor caravan as a road vehicle.

**DRINKING WATER**

Water left in a fresh water tank for extended periods may become unsuitable for drinking or washing purposes.

**GAS HOSES**

Must be inspected regularly for deterioration and renew, as necessary, with the approved type, in any case no later than any expiration date marked on the hose.

**GAS CYLINDERS**

Should be stored in an upright position. Use only Butane Gas at 28MB or Propane Gas at 37MB. (see appliance Instructions)

**IMPORTANT**

**SWITCH OFF** all appliances and lamps before disconnecting the battery. Never allow modification of ELECTRICAL or LPG. Systems and appliances except by qualified tradesmen.

**INTERIOR LUGGAGE**

**RESTRAINING BELTS.** These items are only fitted at the customer's request, they are not intended for use as occupant seat belts.

**TOW BARS**

If fitting a Tow Bar please seek professional guidance for safe working loads. Romahome Ltd cannot be held responsible for items not fitted at their factory or not approved by them. Romahome Ltd can take no responsibility whatsoever for injuries that may be incurred in the event of an accident.

**HEIGHT RESTRICTIONS**

Many car parks have height restrictive bars across the entrance your Romahome may not pass under some of these bars see page 4 for specifications.

**U.K. SPEED LIMIT  
GUIDANCE**

- 50 mph. on single carriageway roads.
- 60 mph. on dual carriageway roads.
- 70 mph. on motorways where there isn't a lower limit in force.



## **WINTERISING OR LAYING UP YOUR VEHICLE FOR EXTENDED PERIODS**

If you intend to lay your vehicle up for the Winter;

- Choose a secure, level and sheltered place.
- Check windows, roof lights and vents are closed.
- Drain fresh water tank.
- Drain waste water tank Flush out with a small amount of disinfectant
- Drain all water pipes, and run water pump until the last traces of water drain out.
- Leave the all the taps open to let the system breath and dry out
- Empty toilette cassette and any flushing systems
- Disconnect gas cylinders (store upright in a secure well ventilated area)
- Purge LPG. from gas pipes.(vent to air)
- Place fridge winterising covers over vents.
- Wedge fridge door slightly open to prevent mould forming inside.
- Remove/disconnect Secondary and Primary Batteries. (unless alarm systems are fitted) (Consider a battery management System.)  
Remove the smoke detector battery and leave it open to remind you about replacement.
- Wax the exterior of the vehicle. Spray a film of protective oil over any exposed metal parts. Bag windscreen wipers.
- Consider the effects of bird lime on exterior surfaces.
- To prevent the sun fading fabrics it is recommended that curtains and blinds are drawn.
- It is advisable that any detachable upholstery is taken indoors for a prolonged lay up.
- There is enough fixed ventilation in your Romahome to allow the air to circulate without leaving windows or roof lights ajar.
- Jack and block the vehicle up to take the weight off the wheels.  
This will also reduce the risk of flat areas on the tyres.  
Tyres deteriorate rapidly in ultraviolet light it can cause premature aging and cracking of the side walls, cover them with a light proof material as a preventative measure.
- If you intend to use your vehicle through the Winter you can reduce the risk of damage to the water systems by draining down when temperatures are expected to drop below freezing.
- For the base vehicle winterising follow the advice of the manufacturer.
- From experience we recommend the hand brake is left released as it can seize whilst in the "on" position during prolonged storage.

### **Warranty and Instructions for Equipment (where fitted)**

**Chemical Toilet**

**CEC225 Mains Electric Unit.**

**Eberspacher / Warm Air and Water Heater**

**Electrolux Refrigerator**

**Sure flow Water Pump**

**Smev Cooker**

**Zig X7 Transformer/Charging Unit**

**Roma Club Details**



FAULT FINDING CHART		
Operating Incidents	Possible Causes	Remedial Action
No 230v electrical power	Mains unit has tripped or not switched on.	Find reason for overload or earth leakage
No 12 volt power	Not switched on. Fuse blown	Check battery connectors / check electrolyte level
Diesel heater not working	Secondary battery flat.	Switch to primary battery
Gas heater failed to ignite	No power, No fuel, check power trip.	Check in line fuses
	Gas turned off, cylinder empty, incorrect gas pressure	Consult Propex Heater operating instructions for
	Is the thermostat on its lowest setting	information on integral electronic diagnostics system
Fridge not working on 12v	Check switches, ? Dash & Fridge, then fuse	Check battery connectors. Check electrolyte.
Fridge not working on 230v		Check fuse in ancillary fuse box under passenger's seat
Fridge not working on gas	Gas not on / cylinder empty	Check hook up lead, Has mains unit tripped
Water pump not working	Thermal breaker in operation	Wait till pump cools
	Control panel fuse blown	Replace fuse (in the Zig control panel)
	Water frozen / no water	Check water tank
Water leaks	Old or worn Pipes, Loose fittings	Tighten fittings
Vibrations in Motorhome	Soft tyres	Check Pressures displayed on driver's door pillar
	Worn Tyres, Unbalanced wheels,	Check for tyre wear, Balance wheels
	Insecure furniture, blinds, cutlery etc.	
	loose fittings.	
Smell of gas	Check gas taps	Check hose & connections with soap solution
Cooker won't light	Worn or perished gas pipe, Lose fittings	Isolate gas cylinder, vent space immediately
Appliance lights but goes out	Gas not turned on at cylinder / empty cylinder	Check electronic ignition fuse (5amp)
Yellow flame	Thermocouple probe not functioning	Consult competent Gas Fitter
Orange flame	Lack of primary air, yellow tipping to the flame normal.	Consult competent Gas Fitter
Floating flame	Dust or dirt in the mixing tube carried through the burner ports	
Floating flame	Lack of secondary air	check all air vents/ air inlets are clear
Floating flame	Blocked retention ports	Check retention ports are clear
	If in the oven	Check the flue is clear
Information on fuses is given in illustration 20 and 44		

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