



SWIFT

SWIFT GROUP OWNER'S HANDBOOK

MONZA CAMPERVAN



Issued 2025

Part No. 1453854

Dear owner


Thank you for deciding to buy one of our new campervans.


We are sure you will enjoy many happy hours in it and we hope the information and hints in this handbook will heighten your enjoyment.


The information contained in this handbook is provided for your safety and enjoyment whilst using the product. It is recommended that you read this handbook right through before taking to the road and staying in it for the first time.

You will find information, tips and important warnings regarding the use of your caravan.

Whilst all the content is important there are specific items, prefixed with a warning, caution or note, which are drawn to your attention for your safety and comfort.

 **WARNINGS** are instructions that if ignored can cause the user(s) physical harm.

 **CAUTIONS** are instructions that if ignored can result in damage to the campervan.

 **NOTES** are reminders that should be heeded.

The information contained will answer most of your queries, but if there are any aspects which are not covered please consult your appointed dealer. We would suggest you make a note of your dealers name and contact information below.

Important - please quote the base VIN (vehicle identification number) in all correspondence with your dealer or Swift Group Limited (Swift), this can be found on the lower corner of the front windscreen or on the Ford plate positioned on the nearside cab door pillar.

All the illustrations and descriptive matter in this handbook are intended to give a general idea of the campervan. Changing market and supply situations may prevent us from maintaining the exact specification details in this handbook. We therefore reserve the right to alter specifications as materials and conditions demand.

Dealers are not agents of Swift Group Limited and have absolutely no authority to bind Swift Group Limited by any express or implied undertaking or representation.

Online Handbooks

Throughout the season, specifications and equipment details contained within this handbook may change.

Please refer to our online handbooks (www.swiftgroup.co.uk) for the most up-to-date version of your handbook.

The technical data detailing the weights and dimensions of your vehicle can be found at the end of this handbook

Happy camping!

Dealer Name:

.....

Telephone Number:

.....

E-mail:

.....

VIN:

.....

Sales Tel:

.....

Service Centre Tel:

.....

Parts Tel:

.....

First Service Due:

.....

Contents

1. Warranty	5
2. Campervan code	13
3. Preparing for the road	17
4. En-route	27
5. Safety and security	35
6. Arrival at site	39
7. Connecting services	41
8. Electrical Systems	61
9. Fitted equipment	83
10. Campervan Care	101
11. Technical information	109
12. Useful information	119

1. Warranty

1.1 Campervan Conversion Warranty	6
1.2 My Swift Life customer portal	8
1.3 Supplier contacts	9
1.4 Annual service / inspection record	10

1.1 Campervan Conversion Warranty

All the illustrations and descriptive matter in this handbook are intended to give a general idea of the campervan. Changing market and supply situations and our policy of continuous product development may prevent us from maintaining the exact specifications detailed in this handbook. We therefore reserve the right to alter specifications as materials and conditions demand.

Dealers are not agents of Swift Group Limited ("Swift") and have absolutely no authority to bind the manufacturer by any express or implied undertaking or representation.

Note: To register your warranty, please register for My Swift Life, the registration process can be accessed via: www.swiftgroup.co.uk, by doing so you are agreeing that you have had the details of the warranty and the annual service arrangements fully explained. This in no way affects your statutory rights under the Consumer Rights Act.

Your campervan has three warranties:

Base Vehicle Warranty – provided by Ford

Your vehicle is a Campervan conversion campervan which utilises a Ford base vehicle. For a Campervan conversion, Swift takes a Campervan as supplied by Ford and fits out the interior of the van for habitation. Ford provides a manufacturer's warranty for the base vehicle as supplied to Swift by them. For any issues with the base vehicle warranty please contact your local Ford dealer. This Campervan Warranty does not cover any parts of your campervan that are covered by the Ford manufacturer's warranty. Your base vehicle warranty is subject to the terms and conditions contained in the Ford handbook supplied with the base vehicle and the vehicle must be serviced in accordance with Ford requirements.

SuperSure Warranty – provided by Swift

For all parts or fittings of your Campervan conversion other than the Ford base vehicle, Swift will repair (or at its option, replace) any defective parts or fittings for 3 years from the date of purchase (or hire purchase) subject to conditions, terms and exclusions below.

Campervan Conversion Body Shell Warranty – provided by Swift

Swift will repair (or at its option, replace) any defects with the Campervan conversion to the body shell for 3 years from the date of purchase

(or hire purchase), subject to the conditions, terms and exclusions below.

This Warranty does not cover any parts of your campervan that are covered by the Ford manufacturer's warranty.

Conditions for the SuperSure and Body Shell Warranties

1. You must ensure that the habitation part of your campervan has an Annual Service (see clause 2 below) within 90 days before or 60 days after each anniversary of the original date of purchase. In order to preserve your SuperSure and Body Shell Warranties the third Annual Service must, however, be carried out before the expiry of the 36 month period from the original date of purchase. If you have not performed an Annual Service then Swift will not be obliged to perform any work under the applicable warranty. Original VAT invoices must be retained as proof that Annual Service have been carried out.
2. The Annual Service on the body shell and habitation area must be carried out in accordance with the requirements in this handbook. You will be responsible for any charges made for an Annual Service. If the Annual Service is performed by an authorised Swift Group Campervan Dealer then Swift warrants that the Annual Service has been performed correctly. If the Annual Service is performed by an unauthorised repairer or service centre then if the Annual Service has not been performed in accordance with the requirements in this handbook and/or work has been performed on your campervan that is defective or faulty, then Swift will not be obliged to perform any work under this Warranty (in so far as it relates to defective or faulty work or defective Annual Service)
3. All new campervans must be registered with Swift within 6 weeks of purchase as new.
4. The benefit of the SuperSure and Body Shell Warranties may be transferred to a new owner if the campervan is re-sold, provided that the campervan has been serviced in accordance with the requirements of this handbook, and details of the change of ownership have been supplied to Swift using the change of ownership form set out in this handbook as soon as reasonably practicable after the change.

5. If any repairs are identified as being necessary to the body shell or habitation areas during an Annual Service or otherwise, Swift will only pay for Warranty work performed by an authorised Swift Group Campervan Dealer. The campervan must be made available to an authorised Swift Group Campervan Dealer within 6 weeks of the date the repair need was identified for the work to be carried out. The cost of transporting, towing or moving the campervan by any means to or from the place of repair is the responsibility of the owner.
6. The SuperSure and Body Shell Warranties only apply to campervans purchased and used primarily within the UK. Please refer to the Ford handbook for use of the base vehicle outside the UK.

Terms

7. The Body Shell Warranty covers any defect with the joints and seals of the Campervan conversion (excluding elevating roof and roof tent). This includes body leaks, delamination of floors, and water ingress through any permanently sealed seam joints which relate to the conversion of the Campervan. This Campervan Warranty does not cover any parts of your campervan that are covered by the Ford manufacturer's warranty.
8. In the first 12 months the SuperSure Warranty will cover any defect other than those specified in the Exclusions below.
9. In the years 2 and 3 the SuperSure Warranty will only cover any defect with the following components:

- **Electrical System:** Battery charger, Campervan control system and interior lighting units.
- **Water system:** Fresh water tank, water pump, water gauges, taps and shower head.
- **Cooker:** the cooker unit including grill, oven, burners, igniter, and flame failure device (if provided).
- **Refrigerator:** gas igniter, flame failure device, door seal condenser, gas control valve, 12v and 230v heater elements, gas thermostat, 230v thermostat and 230v temperature control switch.
- **Cassette Toilet:** the cassette toilet (excluding seals, valves and glands).
- **Heating system:** thermostat, motor, switches, control unit, gas heater, flame failure device and igniter (excluding ducting and fittings).
- **Upholstery:** zips, seams and colour fastness.

In years 2 and 3, any defect specified in the Exclusions will not be covered.

Exclusions

10. Swift shall not be liable under the SuperSure and Body Shell Warranties for any defect related to or arising from the following:
 1. The failure of a component for reasons of fair wear and tear;
 2. Damage resulting from freezing, fire, over-heating or accidents (whether caused by the user or a third party);
 3. Misuse of any component;
 4. Normal deterioration, corrosion, intrusion of foreign or harmful bodies, lack of servicing or negligence of any person other than Swift which causes stoppage of or impairment to the function of any component of the campervan;
 5. Replacement of parts which have reached the end of their effective working life because of age and/or usage;
 6. Cleaning or adjustment of any assemblies;
 7. Damage caused by any abrasive cleaners
 8. Cosmetic finishes to kitchen sinks, cooker tops, and/or routine maintenance items which are part of the annual service including lubricants, rubber gas hose, the cleaning of the heater and fridge flues, the replacement of gas jets, and the adjustment and lubrication of locks.

9. Should you have an enquiry or require assistance with a problem, we hope that this guide will be of assistance to you.
10. In addition to the exclusions above, in years 2 and 3 of the SuperSure Warranty Period, Swift Group Limited shall not be liable under this Warranty for any defects related to:
 - Factory fitted leisure battery after 12 months of date of purchase
 - Elevating roof and roof tent after 12 months from date of purchase.
11. Swift shall also not be liable under the SuperSure, and Body Shell Warranties if the campervan has been neglected, misused, modified or used for hire or reward or if the identification marks (chassis/VIN numbers) have been removed or defaced. The campervan will be deemed to have been neglected if it has not been serviced and maintained as stated in this handbook or any repairs being identified as necessary at an Annual Service or by a Swift Group Service Centre have not been carried out in a reasonable time.

You have legal rights under UK law governing the sale of consumer goods. This Warranty does not affect your legal rights.

The name and address of the Warranty provider is:

Swift Group Limited, Dunswell Road,
Cottingham, East Yorkshire, HU16 4JX

To make a claim under this Warranty, contact the Swift Group Dealer which supplied your campervan. Alternatively, details of your nearest authorised Swift Group Campervan Dealer can be obtained by contacting the Swift Group Customer Service Department on 01482 875740, or enquiring on the website www.swiftgroup.co.uk

Change of Ownership

You can transfer the remainder of any three year 'Supersure warranty' and the three year 'Body shell' warranty, details of how to do this can be found at the rear of this handbook.

1.2 My Swift Life customer portal

You have access to an online system which is specific to your new panel van. You should automatically receive an invitation to register for the My Swift Life portal, if you did not receive this, please visit www.swiftgroup.co.uk and select register for My Swift Life.

What to do if you Require Assistance

Should you have an enquiry or require assistance with a problem, we hope that this guide will be of assistance to you.

Please follow these steps:

1. Check the Owners Handbook, paying particular attention to the fault finding advice at the back of the book.
2. Contact your supplying dealer for assistance.

If you need to contact Swift Group Limited, please be aware of the following:

1. When contacting Swift Group, please quote your name, postcode and VIN (Vehicle Identification Number). This can be found at the bottom of the front windscreen and on the left hand side front door pillar.
2. In most instances, the Customer Service Team will involve your dealer in resolving the issue you are experiencing.
3. Check our website www.swiftgroup.co.uk and enter the help and advice section which provides answers to frequently asked questions and how to contact us.
4. If you are contacting the company by email, letter or fax, the Customer Service Team will respond to you within five working days from the date of receiving the correspondence.
5. Please be aware that Swift Group Limited cannot send parts direct from the factory. In all cases, without exception, your dealer must place the order for you.

1.3 Supplier contacts

A number of Swift Group suppliers manage their own Technical and Warranty related queries. Where a customer has a question relating to a product manufactured by a company listed below, we would advise that the first contact should be directly with them.



Sargent Electrical Services
Unit 39, Tokenspire Business
Park, Beverley, East
Yorkshire, HU17 0TB
Phone: 01482 678981
Fax: 01482 678987
E-mail: support@sargentltd.
co.uk

<https://sargentltd.co.uk>



Dometic (UK) Ltd
Dometic House, The
Brewery,
Blandford St Mary, Dorset,
DT11 9LS
Phone: 0844 626 0133
Email: technical@dometic.
co.uk

<https://www.dometic.com/en-gb/uk>



Eberspächer (UK) Ltd.
Climate House
Yeoman Road
Ringwood, Hampshire BH24
3FA

<https://www.eberspaecher-climate.com/>



1.4 Annual service / inspection record

In order to comply with the warranty, you must have your campervan inspected and serviced in accordance with the warranty.

We highly recommend that you have your Campervan serviced by a Swift Group Approved Campervan Dealer who have direct access to our online Customer Service system, My Swift Life. This system provides them with the ability to order approved parts and ensure that any product upgrades which may be available for your Campervan can be offered to you and carried out as part of the service. In the unfortunate event that an issue requires attention under warranty then a Swift Group Approved Campervan Dealer are able to submit a warranty claim to the Swift Group for processing, and deal with the issue for you from start to finish. All of our Swift Group Approved Campervan Dealers are provided with up to date technical information and have access to current repair methods giving you peace of mind that any defect has been repaired effectively.

It is important that the owner's handbook is stamped on the appropriate page by the authorised Swift Group Campervan Dealer.

Failure to do this will invalidate the warranty and the transfer of the warranty on the change of ownership.

The inspection should take approximately two hours and will cover the areas dealt with in the annual service check list. Any areas requiring service and/or maintenance will be highlighted by your dealer and we recommend that you authorise any necessary work to be carried out.

Just as the engine/gearbox/roadwheels need regular servicing by your chassis dealer, so there are components in your conversion that need regular maintenance by your campervan dealer.

These include the gas and electrical systems and the seals in the bodywork. Your dealer will complete the record in this handbook to show that the work has been carried out.

1. Damp test.
2. Chassis and chassis to body security.
3. Road lights, wiring and reflectors.
4. Internal lights and 12V DC system.
5. Hob and Grill
6. Refrigerator 230V AC and 12V DC
7. Gas system.
8. Water pump, taps and water system.
9. Mains 230V AC system.
10. Elevating roof.
11. Furniture hinges/stays etc.
12. Exterior locks and hinges.
13. Rear travelling seat / Folding Bed.
14. All internal vents.
15. Seals.
16. Diesel heating system.
17. Smoke alarm and battery.
18. Carbon monoxide detector and battery.

Annual service/inspection record

<p>Campervan model:</p> <p>Registration number</p> <p>Chassis number</p> <p>Registration date</p>	<p>1st service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>
<p>2nd service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>3rd service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>
<p>4th service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>5th service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>
<p>6th service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>7th service</p> <p>Date:</p> <p>Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>

<p>8th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>9th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>
<p>10th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>11th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>
<p>12th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>	<p>13th service Date: Dealer's Stamp</p> <p>We certify that an annual service has been carried out in accordance with the handbook.</p>

2. Campervan code

2.1 Camp Site Code of Conduct	14
2.2 Wild camping	15
2.3 Handbooks (Chassis & Converter)	15
2.4 The Country code	16
2.5 The coastal code	16

2.1 Camp Site Code of Conduct

Arrivals

Report to reception immediately on arrival.

Vehicle Movement

Keep to roadways unless otherwise directed. Adhere to speed limits. Note that these are generally 10 mph (Remember that the stopping distance on grass is considerably greater than on tarmac).

Only a person in possession of a current driving licence may drive on the site.

Park correctly as advised on your pitch. Where possible leave 20 feet of free space around your vehicle.

Use of Site Appliances

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

Waste Disposal

If the vehicle is not fitted with a waste water tank, a suitable receptacle should be placed below all waste water outlet pipes. Do not let these containers overflow. Dispose of all waste water where instructed. Empty effluent from chemical toilets where instructed.

To avoid possible damage to sewage purification works, only approved chemical fluids must be used. Under no circumstances should coal tar, phenol or caustic-based fluids be used.

Disposable nappies and similar bulky items must not be put into chemical closet emptying points but should be wrapped in a polythene bag and placed in the container provided.

Place all litter in containers marked for the purpose.

Noise

Do not make excessive noise. Children should be restrained from making excessive noise.

Flying kites, drones and model aircraft, and the use of items like catapults or air-guns, as well as ball games, should not be permitted among, or close to other vehicles.

Musical instruments, record players, radios and televisions should not be used to the inconvenience of other people on the site.

Open and close doors quietly. Power generators must be adequately silenced and used with consideration.

Dogs and other Pets

All dogs and other pets should be kept under control. Unless permission has been granted, no animal should be allowed loose on the site and leads must not exceed 10ft.

No animals should be allowed in the shower/toilet blocks.

Do not let dogs foul the site.

Fire Precautions

Adhere to and take note of fire precautions noting the whereabouts of the fire points.

⚠️ WARNING: Provide one dry powder fire extinguisher of an approved type or complying with EN3-7 or ISO 7165, of at least 1kg capacity, by the main exterior door and a fire blanket next to the cooker. Familiarise yourself with the operating instructions on your fire extinguisher and the local fire precaution arrangements.

When using a dry powder extinguisher it is suggested that the campervan be evacuated until the powder has settled, to avoid inhalation.

Unless permission has been granted, barbecues should not be used. If permission is given, consideration should be given to the annoyance that can be caused to other users of the site.

Open fires are not allowed.

Awnings and Tents

Awnings and tents should only be used when permission has been obtained. When on grass and staying for more than a few days, the ground sheet and/or side flaps of awnings should be periodically raised in order to avoid damage to the ground.

Departure

Leave the pitch clean and tidy.

On leaving, check out with reception paying the required fees.

2.2 Wild camping

Camping away from licensed sites, without the permission from the land owner or his agents, is not allowed in the United Kingdom.

When permission has been granted, all aspects of this Code should be adhered to.

On no account should:

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

Parking

Campervans should only be parked in approved places.

When using the facilities of a campervan, care and consideration should be given to those around them.

Driving

Before moving off, the elevated roof should be lowered and correctly secured. Likewise all doors and access lockers for gas containers and chemical toilets must be properly secured.

When the vehicle is in motion it is compulsory for all front seat passengers and rear seat passengers to wear seat belts, where fitted.

When using a campervan on either the public highway or private roads the Highway Code should be complied with and full consideration given to other road users.

In the event of a campervan travelling slowly the driver of the campervan should, where possible, pull over in order to let other traffic pass.

⚠ WARNING: When travelling, refuelling or on a ferry ensure the gas system is fully isolated at source.

2.3 Handbooks (Chassis & Converter)

Before using a campervan all aspects of the handbooks, produced by the chassis manufacturer and the converter, must be read and adhered to.

The separate chassis manufacturer handbook refers to your campervan chassis and base vehicle including care and maintenance.

<https://www.ford.co.uk/support/owner-manuals?ref=%0252F>

**Ford Pass**

Unlock Fords smart side for added peace of mind, FordPass provides the ability to remote lock and unlock your vehicle, check its last location, view the health status and more.

<https://www.ford.co.uk/technology/connectivity/fordpass>



Environment

Care and consideration should be taken to protect the environment. Observe the Country and Coastal Codes.

2.4 The Country code

Enjoy the countryside but respect its life and work.

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

1. Guard against all risk of fires. Hay and heathland catch alight easily and once ablaze are very difficult to put out.
- Remember: fire spreads quickly.**
2. Fasten all gates.
 3. Keep your dog under proper control.
 4. Keep to the paths across farm land.
 5. Avoid damaging fences, hedges and walls.
 6. Leave no litter.
 7. Safeguard water supplies.
 8. Protect wildlife, wild plants and trees.
 9. Go carefully on country roads.
 10. Respect the life of the countryside. The Coastal code

2.5 The coastal code

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

Do not trample about, or move rocks unnecessarily.

Do not frighten seals or seabirds.

Do not spill detergents, solvents or fuel from boats as these can kill marine life.

When sailing, moderate your speed - the wash from a fast boat can destroy banks and nests.

Live molluscs and crustaceans need not be collected as souvenirs - dead shells can usually be found.

Shellfish can take years to grow and fines can be imposed for not observing national regulations.

Do not pull up seaweeds unnecessarily. Make your visit instructive - not destructive.

Look at material - don't remove it. Take notes and photographs, not specimens.

Observe by-laws and be considerate to others.

National Trust property and Country Parks have regulations to protect the wildlife. Follow these and the Country and Coastal Codes.

3. Preparing for the road

3.1 Before moving off	18
3.2 Campervan terms	18
3.3 Loading of vehicle	19
3.4 Large storage areas	20
3.5 Tyres	20
3.6 Dedicated travelling passenger seating	20
3.7 Child seats	21
3.8 Airbag	23
3.9 Three point seat belts	23
3.10 Driving licence	24
3.11 Advice on towing	24
3.12 European Touring	25

3.1 Before moving off

Check:

- Road worthiness of your vehicle (oil level, tyre pressure, road lighting)
- Gas cylinders are correctly positioned, secured and turned off.
- All gas operated appliances have been isolated except en route heating where fitted and in use.
- Loose articles are stowed securely. Do not stow tins, bottles or heavy items in overhead lockers.
- All lockers and cupboard doors are closed and secured.
- Tables are stored or locked in their transit position.
- Fridge is on 12V and door lock is set.
- 230V mains input socket and BBQ point flap is securely closed.
- All drain valves are closed.
- Tyre pressures within the recommended limits.
- Exterior roof rack ladder / bike rack is secured (where fitted).
- All windows/doors are closed and secured.
- Exterior step (where fitted) is retracted / folded in.
- The elevating roof is fully down with catches and retainers secure.
- Travelling seat is locked in a transit position.
- The campervan rear and side sliding doors should also be locked.

⚠ WARNING: Large and/or voluminous items should be stored securely before travelling. We recommend that any such items are stowed behind rear bench seat.

3.2 Campervan terms

Mass in Running Order:

The mass of the campervan equipped to the campervan manufacturers standard specification, as stated by the manufacturer.

The MRO comprises the ex-works weight of the campervan, including the driver, 90% fuel capacity, 1 x LPG gas cylinder @10kg and standard fixtures & fittings in compliance with European Regulation No. 1230/2012 (Masses & Dimensions)

ⓘ Note: The mass of the campervan in running order contains provision for the masses of liquids, gas etc. (see Mass in Running Order in the Technical Section). Part of this provision can also be utilised as additional payload, if for example, you wish to travel with no gas cylinders.

ⓘ Note: If you travel with water in the fresh water tank or waste tank, the payload will be reduced accordingly.

ⓘ Note: Quoted MRO is subject to tolerance, due to weight variation of materials used in Campervan construction.

Maximum User Payload:

The maximum allowable weight to be put into the campervan whilst it is being driven. This is made up of 4 sections:

Personal effects, conventional load, optional equipment and essential habitation equipment.

The Maximum User Payload is the difference between the Maximum Technically Permissible Laden Mass and the Mass in Running Order.

Personal Effects:

Those items which a user can choose to carry in a campervan and which are not included as Essential Habitation Equipment or Optional equipment.

Conventional Load:

A mass allowance of 75kg for each designated passenger seat.

Optional Equipment:

Items made available by the manufacturer over and above the standard specification of the campervan.

Essential Habitation:

A mass allowance for liquids in systems not accounted for within the MRO.

Maximum Technically Permissible

Laden Mass:

The maximum weight for which the campervan is designed for normal use when being driven on a road, laden.

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

Gross Train Weight:

The maximum combined weight of the campervan and trailer.

⚠ WARNING: Under no circumstances should the Maximum Technically Permissible Laden Mass of this campervan be exceeded

Nose weight on towed trailers:

The static mass of the trailer towing device on the rear of the towing vehicle.

When measuring the noseweight it is important that the trailer is loaded.

The trailer is intended to be towed slightly nose heavy. The nose weight can be adjusted by distribution of the load. The nose weight should be approximately 7% of the actual laden weight (but not greater than the hitch capacity) and at the same time suit the campervan requirements. See section '3.11 Advice on towing' on page 24

3.3 Loading of vehicle

⚠ WARNING: Loads must not be exceeded. The driver is responsible for arranging the loads so that they comply with the technical weight limits of the specific campervan model.

See Technical handbook.

Correct weight distribution is an important factor in ensuring your vehicle is well balanced and easy to drive. It is therefore necessary to load your campervan carefully making sure all heavy articles are evenly distributed and are preferably placed in the lower lockers or bed boxes.

Although it is essential to ensure that the total weight of your campervan does not exceed the stipulated Maximum Technically Permissible Laden Mass, (MTPLM), it is important to remember that the front and rear axles also have individual maximum weights which must not be exceeded.

To ensure adequate road holding the load on the front axle, under all conditions, must not be less than 40% or more than 70% of the total weight.

Ensure you distribute the payload equally on each side of the vehicle to avoid an imbalance.

These weights, together with the MTPLM, can be found on the statutory plate affixed to the left hand side front door pillar.

⚠ WARNING: Turn off all gas appliances while the vehicle is in motion.

⚠ WARNING: Please take care to ensure you have allowed for the masses of all the items you intend to carry in your campervan e.g. passengers, optional equipment, essential habitation equipment and personal effects such as clothing, food, pets, bicycles, sailboards and sports equipment etc.

⚠ CAUTION: Care must be taken to ensure that exterior doors are closed and that all possessions are properly stored and secured before setting off on any journey.

3.4 Large storage areas

The large storage areas provided in some campervan layouts are designed solely for the purpose of carrying personal possessions, these areas must not be used:

- As a habitation area (eg living, sleeping or cooking).
- To carry passengers, animals or livestock.
- For the installation (or use) of any LPG gas operated appliances (unless supplied fitted by the manufacturer).
- For carrying LPG gas cylinders.
- To carry any flammable liquids, unless properly stored, sealed and secured.
- For the operation of an electrical generator.
- In such a way that the load exceeds the MTPLM, and/or minimum and maximum axle loads.

3.5 Tyres

If a wheel or tyre is changed any replacement must be of the same type of construction and size.

The law requires that the tyres and pressures must be suitable for the use to which they are being put. The minimum tread depth must be 1.6mm throughout a continuous band comprising the centre three-quarters of the breadth of the tread and around the circumference of the tyre.

Please refer to the base vehicle manufacturer's handbook for tyre pressure information. This may also be displayed in the driver's or passenger's door aperture.

The campervan tyre pressure noted in the Technical book are the pressures stated by Ford for your vehicle calculated in a fully laden condition. If you are not running fully laden, reduced pressures could be used but please seek clarification from the tyre manufacturer.

3.6 Dedicated travelling passenger seating

Seat belts are fitted to all travelling seats. Travelling seats are designated by the manufacturer and vary according to the layout you have purchased. Each seat is homologated i.e. tested to all relevant safety requirements. NEVER travel in or attempt to install a seatbelt to a non-designated seat.

Seat belts and legislation

Designated driver and passenger seats are fitted with seat belts and MUST be worn when travelling.

All children up to 135cm (4'5") in height, or 12 years of age, whichever is reached first must use a child car seat or booster seat suitable for their age and weight.

Children over 135cm (4'5") in height or aged 12 years and over must wear a seat belt.

Note: It is the legal responsibility of the driver To ensure children aged up to 14 years old are suitably restrained.

For passengers aged 14 and over, it is their responsibility (not the driver) that a seat belt is worn.

Seat belts are fitted for your safety and must be worn unless a 'Certificate of Exemption from Compulsory Seat Belt Wearing' is held. This Certificate must be produced if asked for by the Police – seat belt offences can result in a fine.

⚠ WARNING: Passengers should only be carried in designated passenger seats fitted with approved 3-point seat belts. Children should be seated in correctly fitted child seats when the vehicle is in motion.

3.7 Child seats

Choosing/Buying

Go to a reputable retailer such as Halfords, Smyths, John Lewis etc.. Most reputable retailers will have trained child seat advisers on site and will offer a fitting service. Ask the advisor to fit various seats to the vehicle. Once a correctly fitted seat has been installed, satisfy yourself on it's suitability for your child and the vehicle before buying as it is important to use a correctly fitting seat in your campervan.

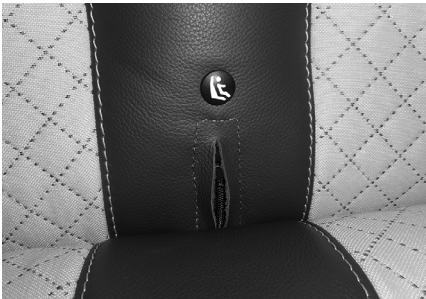
ISOFIX Child Seat Restraint

⚠ WARNING: Use an anti-rotation device when using the ISOFIX system.

⚠ WARNING: Only child restraints certified to ECE-R129 or ECE-R44.03 (or later) have been tested and approved for use in your campervan.

⚠ WARNING: The child seat you use in your car may not be suitable for mounting on a campervan seat.

The two outer seats on the rear travelling bench seat are equipped with ISOFIX anchorage points. Each anchorage point is hidden behind a small zipped area at the bottom of the seat back cushion. Their locations are identified by an ISOFIX lower anchorage label



The top tether anchor points are located on the metal seat frame at the rear of the seat.



General Seat Installation Method:

1. Undo the zips at the base of the seat back to expose the lower anchorages.
2. Place the child seat on the seat cushion and push the child seat back firmly to engage the ISOFIX lower anchor points
3. Route the tether strap over the back of the seat to the anchor point and secure
4. Tighten the tether strap in line with the child seat manufacturer's instructions

⚠ WARNING: Please consult with the child seat manufacturer's instructions for full installation instructions. If in doubt please consult the child seat manufacturers technical support team for further guidance on the installation.

⚠ WARNING: Do not attach the top tether strap to anything other than the correct top tether strap anchor point.

⚠ WARNING: Make sure that the top tether strap is not slack or twisted and is properly located on the anchor point.

⚠ WARNING: Make sure the child restraint rests tightly against the vehicle seat.

⚠ WARNING: Do not modify child restraints in any way.

⚠ WARNING: Do not hold a child on your lap when your vehicle is moving.

⚠ WARNING: If your vehicle has been involved in a crash, have the child restraints checked.

Isofix Child Restraint Position Information

Seating Position		Lateral Facing	Rearward Facing	Rearward Facing	Forward Facing	Rearward Facing
		0 - 10 kg	0 - 10 kg	0 - 13 kg	9 - 18 kg	9 - 18 kg
Front Passenger	Size class ¹	No ISOFIX				
	Fixture ¹					
RH rear Seat	Size class	X	E	C, D, E	A, B, B1	C, D
	Fixture	X	R1	R1, R2, R3	F2, F2X, F3	R2, R3
Centre rear seat	Size class	No ISOFIX				
	Fixture					
LH rear seat	Size class	X	E	C, D, E	A, B, B1	C, D
	Fixture	X	R1	R1, R2, R3	F2, F2X, F3	R2, R3

¹The size class and fixture are defined for both universal and semi-universal child restraint systems. You can see the identification letters on ISOFIX child restraints.

X Seat is not suitable for use with this size class of child restraint system.

⚠ WARNING: Do not put the shoulder section of the seatbelt or allow the child to put the shoulder section of the seatbelt under their arm or behind their back. Failure to follow this instruction could reduce the effectiveness of the seatbelt and increase the risk of injury or death in a crash.

⚠ WARNING: Do not use pillows, books or towels to boost your child's height. Failure to follow this instruction could result in personal injury or death.

⚠ WARNING: Always make sure your child is secured properly in a device that is appropriate for their height, age and weight. Child safety restraints must be bought separately from your vehicle. Failure to follow these instructions and guidelines may result in an increased risk of serious injury or death to your child.

Only EU-approved height-based child car seats can be used in the UK. These have a label showing a capital 'E' in a circle and 'R129'.

Weight-based seats

The seat your child can use (and the way they must be restrained in it) depends on their weight.

Only EU-approved weight-based child car seats can be used in the UK. These have a label showing a capital 'E' in a circle and 'ECE R44'.

You may be able to choose from more than one type of seat in the group for your child's weight.

For more information visit www.gov.uk

Never fit or use a second hand car seat. It could have been damaged and may not meet modern standards. The fitting instructions may also be missing.

Height-based seats

Height-based seats are known as 'i-Size' seats. They must be rear-facing until your child is over 15 months old. Your child can use a forward-facing child car seat when they're over 15 months old.

You must check the seat to make sure it's suitable for the height of your child.

Positioning/Fitting

Dependant upon the child seat type, the most suitable position for the child seat to be fitted may be the front passenger seat of the cab (NOTE airbag advice on following page) The central seat on the rear bench seat is not suitable for an ISOFIX child seat. Advice should always be taken from the retailer on the suitability and security of the seat in the campervan. Read and follow the child seat manufacturer's instructions for fitting the seat.

All Swift campervans are fitted with inertia reel seat belts, however, the child seat must be tight in the adult seat. Push all your weight into the child seat as you tighten the belt.

Keep a copy of the child seat fitting instruction in the campervan for easy reference.

Any doubts, ask an advisor to show you how to correctly install the seat.

3.8 Airbag

Never fit a rear facing child restraint in a seat with an active airbag in front of it.

Forward-facing child restraints should be positioned as far back from the airbag as possible. Check the base vehicle handbook.

⚠ WARNING: Extreme Hazard! Never use a rearward facing child restraint on a seat protected by an active airbag in front of it. Death or serious injury to the child can occur.

⚠ WARNING: You must switch the passenger airbag off when using a rearward facing child restraint on the front seat.

⚠ WARNING: You must switch the passenger airbag on following the removal of the child restraint.

3.9 Three point seat belts

This section refers to the seat belts located in the habitation area of your campervan.

Dedicated Travelling Passenger Seating

Bench Seat

⚠ WARNING: No passengers are allowed to stay inside the vehicle whilst moving unless they are seated in the designated seated positions. (3 rear positions are available).

For the safety of rear seated passengers, the bench seat must be correctly installed in to the guide rails and locked in place in one of the traveling positions while the vehicle is moving to avoid any issues when breaking.

All passengers must be buckled up correctly.

To ensure the correct functioning of the seat belts the bench seat must be securely fastened in to the running rails and the seat be locked into one of the travelling positions.

Moving the bench seat

There are two methods to adjust the position of the seat. By moving the seat with your body (seated on the seat as in a car seat) or by pushing it by hand while stood near to the front of the seat.

Lift the front bar handle and pull or push in the direction required. Let go of the handle and the seat will click into the nearest lockable traveling position. When travelling we would recommend that any luggage is stored behind the bench seat and not between the front and rear seats. To ensure the mechanism runs smoothly it is recommended to clean and remove obstacles from the rails.

To lock the seat in the desired position depress the lever on both sides of the seat.

ⓘ Note: The forward most lockable position for the rear seat, in the floor rails, is not suitable for passengers when travelling.

To re-engage the sliding mechanism pull-out the two side levers and lift the bar handle.



⚠ WARNING: The bench seat **MUST BE LOCKED** when driving! Carriage of passengers is permitted only when the bench is locked in the positions intended for this purpose!

Fastening the seat belt:

Insert tongue into buckle; a positive 'click' indicates correct assembly.

Releasing the seat belt:

Press the red release button, the tongue will be ejected from the buckle.

- The belt is designed for use by one person and must not be put around a child seated on a person's lap.
- The belt is suitable for restraining most child seats and boosters.
- The belt should at all times be adjusted and used in accordance with the instructions. No excessive slackness should be present.
- Once installed the diagonal should pass across the centre of the shoulder and the buckle should lie just on or below the hip.
- Avoid twisting the webbing during use. Webbing must not be allowed to chafe against sharp edges.
- Do not make alterations or additions to the belt.
- Belts that have been cut, frayed, damaged or stressed through impact should be replaced. After impact the campervan anchorage points should also be checked.
- To clean use warm soapy water only.
- Periodic inspection of the installation will ensure reliability of the seat belt.

3.10 Driving licence

Drivers who passed their car driving test (category B) before 1 January 1997 are usually allowed to drive a vehicle and trailer combination up to 8,250kg maximum authorised mass (MAM). You're also allowed to drive a minibus with a trailer over 750kg MAM.

The MAM is the weight of the vehicle or trailer which is listed in the owner's manual and is normally shown on a plate or sticker fitted to the vehicle or trailer.

Drivers who passed their test after 1997 can drive vehicles up to 3,500kg maximum authorised mass (MAM) with up to 8 passenger seats. Drivers can also tow a trailer that weighs up to 3,500kg MAM.

You must check you have the correct driving licence entitlement for the vehicle you drive.

3.11 Advice on towing

The towing capability of each campervan differs depending on the specific chassis and engine types, (see 'Towing Capabilities Table' in your specification section).

This table takes account of the maximum front and rear axle loadings as well as the minimum front axle loading in two conditions, MRO and MTPLM condition.

Towing in these, and any other condition requires sensible loading and distribution of payloads to ensure the requirements of the towing capability table are met.

When towing, the demands on both the vehicle and driver increase. A trailer reduces manoeuvrability, the ability to climb hills, acceleration and braking capacity and makes the vehicle handle and corner differently. It will also increase the fuel consumption of the vehicle.

Always brake in good time. Special care must be taken when descending gradients. Change down before going down a steep hill so the engine can act as a brake. Ensure that the towing vehicle tyre pressures are correct and adjusted for full load conditions and that the trailer tyre pressures are as recommended by the trailer manufacturer. Regularly check the operation of trailer brakes and lights.

For maximum stability, when loading the trailer ensure that the loads are properly secured during transit. Position loads so that most of the weight is placed close to the floor and, where

possible, immediately above or close to the axle(s). Where the load can be divided between trailer and tow vehicle, loading more weight into the vehicle will generally improve the stability of the combination.

After loading the trailer, check that the nose weight and axle loads are in accordance with the manufacturer's recommendations, also check the rear and front axle loads on the campervan. When calculating the laden weight of the trailer, remember to include the weight of the trailer PLUS THE LOAD.

Note: Towing regulations vary from country to country. It is very important to ensure that national regulations governing towing weights and speed limits are observed (refer to the relevant national motoring organisation for information). The stated maximum permissible towing weights refer to the vehicle's design limitations and NOT to any specific territorial restrictions.

Notes:

5. Do not exceed the campervan gross vehicle train weight.
6. Do not exceed the maximum front & rear axle loads on the campervan.
7. Ensure the campervan front axle load is never less than 40% or more than 70% of the total weight.
8. Campervans with an MTPLM up to 3500kg which have European Type approval can only be fitted with a type approved towbar complying to 94/20/EC or UN ECE R55.
9. The limit for towing an un-braked trailer is 750kg (based on VIN plate not actual weight), this applies to a towed car.
10. A car dolly with a car with a GVW over 750kg in place is considered as two trailers, these are legal for use for recovery but under the Road Traffic Regulations Act 1984 the combination is limited to 40 mph on motorways and dual carriageways and 20 mph elsewhere. A car dolly is not legal for transportation (there is a very specific difference between recovery and transportation. Recovery is defined as the removal of a broken down vehicle to a place of safety).
11. The maximum permitted vehicle combination length is 18.75m, however any combination must ensure compliance with the turning circle requirements of Construction and Use regulations 1986 & EU 1230/2012.

Note: Not all campervans are suitable for towing and may not have sufficient payload to permit towing. If in doubt, consult your dealer.

3.12 European Touring

Please note there are a number of requirements placed on a driver when driving on European roads. Carrying a warning triangle, high visibility jacket, first aid kit and spare bulb is now compulsory in many EU states but some EU countries are now introducing further regulations such as carrying a breathalyser kit and not being able to use satellite navigation systems with speed camera warnings.

We would advise customers to check on the many web-sites available to ensure you are carrying the correct equipment when touring in those EU countries.

4. En-route

4.1 RESQ Tyre Repair Kit	28
4.2 Ford Tyre Inflation Kit	30
4.3 Cruise control	34
4.4 Parking sensors	34

4.1 RESQ Tyre Repair Kit

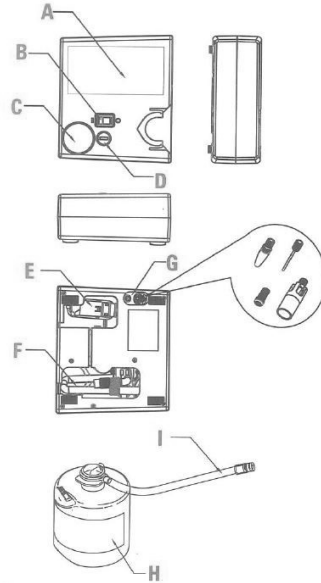
IMPORTANT INFORMATION & WARNINGS:

Emergency roadside tire repair kits only provide temporary mobility.

- With the AirMan you can continue on your journey even after experiencing a flat tire.
- The high performance compressor and sealant effectively repair most tire punctures up to 6mm with AirMan's Valve Through Sealants and up to 10mm with AirMan's Valve Out Sealants.
- For AirMan products adapted for passenger vehicles, you can drive up to 200km or 120 miles at a maximum speed of 80 km/h or 50mph on a sealed tire to get you to the nearest service station.
- If you experience vibrations, unsteady steering behaviour or noises while driving, reduce your speed and drive with caution to a place where it is safe for you to stop the vehicle. Recheck the tire pressure and check for any cracks or visible damage. Do not continue driving with this tire.
- Some punctures or flat tires CANNOT be repaired as damage may be too severe.
- Sidewall punctures or tears CANNOT be repaired.
- You can also use AirMan tire repair kits or systems for all of your everyday inflation needs. With the supplied adaptors, you can inflate easily and quickly your inflatables, sporting goods, bicycle tires, and more!
- Park your vehicle at the side of the road when using AirMan so as not to impede the flow of traffic and so you can use AirMan without being in danger. Keep you vehicles' lights on or use a warning triangle to make others around you aware of your presence.
- Do not remove any foreign objects (nails/ screws/debree) that may have got stuck in the tire.
- Leave the engine running as the compressor may drain the battery. Do not run your vehicles engine INDOORS or CLOSED AREAS.
- Operation temperature to -200C. Never leave AirMan unattended while in use.
- Use ONLY AirMan branded Tire Sealant for replacement.
- Do not use the AirMan Tire Sealant after its expiry date. Replace with a new AirMan Tire

Sealant as soon as possible.

- Keep away from children. The AirMan compressor and sealant are not toys.



PRODUCT DESCRIPTION:

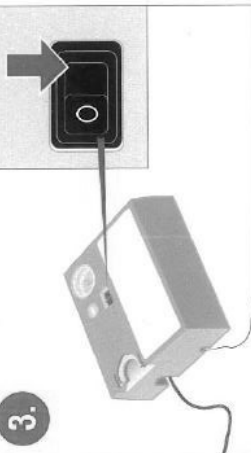
- | | |
|---|--|
| A | Compressor label |
| B | Power switch |
| C | Pressure Gauge |
| D | Deflate Button |
| E | 12V power plug |
| F | Black Hose connector |
| G | Adaptors for bicycle tires, balls, inflatables |
| H | Bottle label |
| I | Red Sealant Hose |

1A. Air Only Function



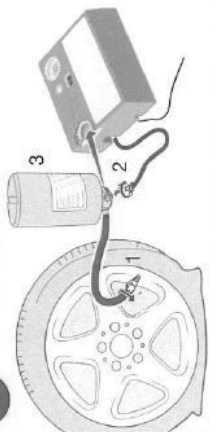
- 1 Connect black compressor hose directly to tire valve.

3.



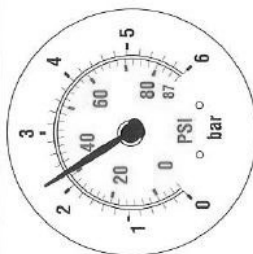
Turn on.

1B. Air & Sealant Function



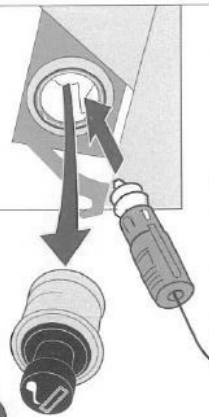
- 1 Connect red sealant hose to tire valve.
- 2 Connect compressor hose to bottle.
- 3 Slide bottle into compressor socket.

4.



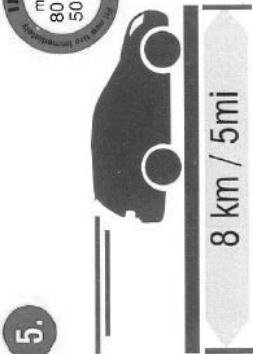
Inflate until you reach desired pressure:
for example: 2-2.5 BAR / 29-36 PSI.

2.



- 1 Turn on vehicle.
- 2 Plug into outlet.

5.



Turn off. Disconnect and store the unit. Drive vehicle approx. 8km/5miles to ensure repair sealant is applied. Maximum speed 80 km/h (50 mph).

4.2 Ford Tyre Inflation Kit

What is the tire sealant and inflator kit

The kit consists of an air compressor to re-inflate the tire and a canister of sealing compound that effectively seals most punctures. This kit provides a temporary tire repair allowing you to drive your vehicle up to 200 km (120 mi) at a maximum speed of 80 km/h (50 mph) to reach a tire service location.

Note: The temporary mobility kit contains enough sealant compound in the canister for one tire repair only. See an authorized dealer for replacement sealant canisters

Tire sealant and inflator Kit precautions

WARNING: Depending on the type and extent of tire damage, some tires can only be partially sealed or not sealed at all. Loss of tire pressure can affect vehicle handling, leading to loss of vehicle control.

WARNING: Do not use the kit on a previously damaged tire, for example when it has been driven under-inflated. This could cause loss of vehicle control, personal injury or death.

Do not attempt to repair punctures larger than 6 mm (0.24 in) or damage to the tire's sidewall.

Only punctures located within the tire tread can be sealed with the kit.

Only use the kit supplied with your vehicle.

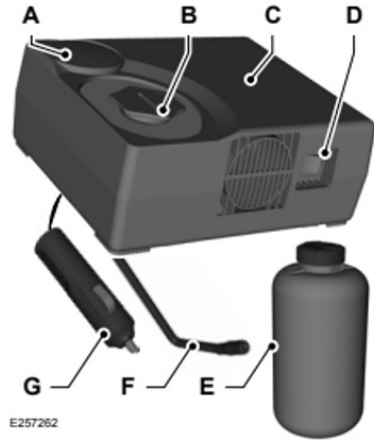
The temporary mobility kit contains enough sealant compound in the canister for one tire repair only.

After using the sealant, an authorized dealer needs to replace the tire pressure monitoring system sensor and valve stem on the wheel.

Locating the tire sealant and inflator kit

The kit is in the left-hand side of the luggage compartment.

Tire sealant and inflator kit components



- E257262
- A Pressure Gauge.
 - B Sealant bottle access cap.
 - C Warning label.
 - D Power switch.
 - E Sealant bottle.

- a. Pressure Gauge.
- b. Sealant bottle access cap.
- c. Warning label.
- d. Power Switch.
- e. Sealant bottle.
- f. Tire inflation pipe.
- g. 12 volt DC power point connector.

Note: Make sure you regularly check the expiry date on the sealant bottle,

Using the tire sealant and inflator kit

⚠️ WARNING: The sealant contains natural rubber latex. Avoid contact with skin and clothing - If this happens, rinse the affected areas immediately with plenty of water and consult a physician.

⚠️ WARNING: Do not leave the kit unattended when it is in use. Failure to follow this instruction could result in personal injury or death

⚠️ WARNING: Check the sidewall of the tire prior to inflation. If there are any cracks, bumps or similar damage, do not attempt to inflate the tire. This could cause personal injury.

⚠ WARNING: If the tire does not inflate to the recommended tire pressure within 15 minutes, stop and call roadside assistance.

⚠ WARNING: Do not stand directly beside the tire while the compressor is operating. This could cause personal injury if the tire bursts.

📌 Note: The recommended tire pressures are the tire label or safety certification label, located on the B-pillar, inside the driver's door.

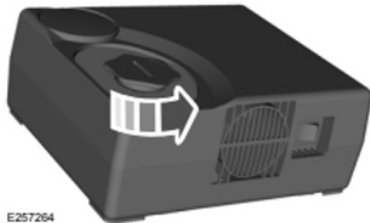
1. Check for a punctured tire.

📌 Note: Do not remove objects, for example nails or screws from a punctured tire.



E257263

2. Release the tire inflation pipe and the 12 V DC power point connector from the underside of the compressor.



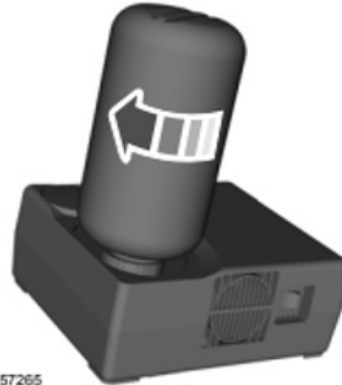
E257264

3. Turn the sealant bottle access cap counterclockwise and remove it.



E256963

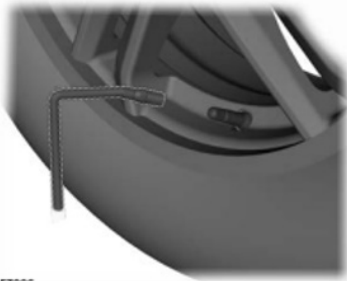
4. Remove the sealant bottle cap. Do not pierce or remove the seal.



E257265

5. Attach the sealant bottle to the compressor. Turn the sealant bottle clockwise until you feel a strong resistance.

📌 Note: Attaching the sealant bottle to the compressor pierces the seal. Do not loosen the bottle as sealant could escape.



E257006

- Remove the tire valve dust cap and attach the tire inflation pipe.



- 12V Plug the 12 V DC power point connector into the 12 V DC socket).



E257266

- Start the engine and switch the compressor on.
- Inflate the tire to the recommended tire pressure shown on the Tire Label on the B pillar. Do not operate the compressor for more than 15 minutes continuously. Switch the compressor and the ignition off and check the current tire pressure with the pressure gauge.

Note: If the recommended tire pressure is not reached within 75 minutes, you may disconnect the compressor, slowly roll the vehicle forward by one car length to distribute the sealant within the tire, then restart the inflation process. If the recommended inflation pressure is still not reached, the tire could be damaged beyond a temporary repair. Stop and call roadside assistance.



- Remove the power plug from the 12 V DC power point connector.
- Unscrew the pipe from the tire valve and put the protective cap back in place. Replace the valve cap on the tire valve.

Note: Some residual sealant fluid may drip or briefly spray out the pipe while you disconnect it. This is normal.

- Do not remove the sealant bottle from the compressor. This avoids leakage of residual sealant.
- Remove the warning label showing the maximum permissible speed 80 km/h (50 mph) from the side of the compressor and place it on top of the instrument panel or the center of the dash in the driver's field of view. Make sure the label does not obscure anything important.
- Store the kit, the bottle lid and cap safely in your vehicle. You need the kit again when you check the tire pressure after driving the vehicle a short distance.



E257942

15. Promptly drive the vehicle cautiously for 6 km (3.7 mi) to distribute the sealant evenly inside the tire. Do not exceed 80 km/h (50 mph)

Note: If you experience any unusual vibration, ride disturbance or noise while driving do not proceed to the second stage of this operation. Reduce speed until you can safely pull off to the side of the road to call for roadside assistance.

16. After 6 km (3.7 mi) stop and check the tire pressure using the kit.
17. Remove the valve cap from the tire valve and firmly screw the air compressor pipe onto the valve stem by turning clockwise.
18. With the compressor off, the gauge of the kit displays the tire inflation pressure.

Note: If the tire pressure has dropped to 2 bar (29.0 PSI) below the recommended tire pressure, the tire could be damaged beyond a temporary repair. Stop and call roadside assistance. Do not drive your vehicle.



19. If necessary, turn on the compressor and adjust the tire to the recommended tire pressure. Check the tire pressure with the compressor turned off to get an accurate pressure reading.
20. Unscrew the compressor pipe from the valve stem and reinstall the valve cap. Leave the sealant bottle attached to the compressor. Safely store the tire sealant and inflator kit in your vehicle.

After Using the Tire Sealant and Inflator Kit

WARNING: If you experience any unusual vibration, ride disturbance or noise while driving, reduce your speed until you can safely pull off to the side of the road and call for roadside assistance.

Failure to do so could cause you to lose control of your vehicle and increase the risk of personal injury or death.

The kit only provides temporary mobility. Regulations concerning tire repair or replacement after using the kit could differ from country to country. We recommend you consult a tire specialist.

After using the kit:

- Do not drive your vehicle more than 200 km (124.3 mi) before repairing or replacing the punctured tire.
- Inform all other users of your vehicle that a tire was sealed using the kit. Make them aware of the special driving conditions that must be observed.

- Regularly check the tire pressure until the sealed tire is repaired or replaced by a tire specialist. Before the tire is removed from the rim, you must inform the tire specialist that the tire contains sealant.
- Take the kit to an authorized dealer to have the sealant bottle and the tire inflation pipe replaced.

4.3 Cruise control

The driver of the vehicle should always remain seated and in control of the vehicle when cruise control has been engaged. Never leave the driving seat for any reason when the vehicle is underway

4.4 Parking sensors

Parking sensors and camera based systems are fitted to some vehicles. Please use the information provided. Use the sensors as a guide only. It is the responsibility of the driver to ensure it is safe to reverse the vehicle.

5. Safety and security

5.1 Fire	36
5.2 Smoke Alarm Operation	36
5.3 Fire Extinguisher	36
5.4 Escape paths	36
5.5 Children	37
5.6 Ventilation	37
5.7 CO alarm	37
5.8 Security	38

5.1 Fire

Note: Your attention is drawn to the notice affixed inside the wardrobe advising on fire precaution, ventilation and what to do in case of fire.

In case of fire

1. Get everyone out of the campervan as quickly as possible using whichever exit is the quickest, including windows. Do not stop to collect any personal items.
2. Raise the Alarm. Call the Fire Brigade.
3. Turn off the gas supply valve if it is safe to do so.
4. Turn off the electricity supply at supply point.

5.2 Smoke Alarm Operation



Your campervan is fitted with a Fire Angel SB1 smoke alarm. Please read the user instructions for the smoke alarm, which are available at the following location:

<https://www.fireangel.co.uk/products/sb1-t>



If you are unable to view the documents online, please contact the supplier, your dealer or Swift for an electronic or paper copy.

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

⚠ WARNING: Appliances such as cookers must not be used for heating.

5.3 Fire Extinguisher

It is recommended that a dry powder fire extinguisher be carried inside your campervan at all times.

When using a dry powder extinguisher it is suggested that the campervan be evacuated until the powder has settled, to avoid inhalation.

A fat pan fire should not have a fire extinguisher aimed at it. It should be smothered with a fire blanket.

⚠ WARNING: Provide one dry powder fire extinguisher of an approved type or complying with EN3-7 or ISO 7165, of at least 1kg capacity, by the main exterior door and a fire blanket next to the cooker. Familiarise yourself with the instructions on your fire extinguisher and the local fire precaution arrangements.

5.4 Escape paths

In the event of an emergency, both the main entrance sliding door and rear door(s) are emergency exits.

It is important that you do not block escape paths to emergency exits with obstructions or hazards.

As the campervan is fitted with a childproof locking system please ensure it is not activated when the campervan is parked off the public highway. For more information please see base vehicle handbook.

5.5 Children

Do not leave children alone in the campervan in any event. Keep potentially dangerous items out of reach, as at home e.g. matches, medicine etc.

5.6 Ventilation

All campervans comply with BS EN 721. The ventilation points on your campervan are fixed points of ventilation which are required by the European Standards.

All campervans have ventilation at high level and low level which have been calculated to suit the individual needs of your campervan.

High level ventilation is achieved by the mesh within the fabric of the pop up roof. The low level ventilators are positioned in the floor at the rear of the vehicle.

Under no circumstances must these vents be blocked or obstructed in any manner as this could lead to insufficient fresh air. In this case the confined atmosphere becomes depleted of oxygen which could lead to dangerous levels of carbon dioxide (CO₂) build up leading to the risk of asphyxiation.

The risks of carbon monoxide (CO) build up, which is a colourless, odourless and tasteless gas, will also be reduced with ventilation. Carbon monoxide is produced from incomplete combustion and should the CO detector be activated the cause of the incomplete combustion must be investigated prior to reusing the appliance in question.

It is advised that fixed ventilation points are checked and cleaned (if necessary) on a regular basis using a small brush and a domestic vacuum cleaner.

As the ventilation levels are calculated to suit each model requirements no modifications should be made which may result in reduced ventilation levels.

⚠ WARNING: Do not obstruct ventilation.

⚠ WARNING: When you are cooking it is essential to provide additional ventilation, such as opening windows near the grill, cooker and oven. Do not use cooking appliances for space heating.

It is recommended that the elevating roof be raised when the Leisure Accommodation Vehicle is used for habitation purposes.

5.7 CO alarm



Your campervan is fitted with a FireAngel FA3820 Carbon Monoxide Alarm. To activate the alarm, you will need to pull the disabling tab. For further information, please read the instructions for the alarm, which are available at the following location:

bit.ly/3VZ5X0j



If you are unable to view the documents on line, please contact the supplier, your dealer or Swift for an electronic or paper copy.

5.8 Security

Campervan theft:

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

VIN (Vehicle identification Number)

Record your campervan VIN which can be found on the lower edge of the base vehicle front windscreen and on the left hand side front door pillar.

Make a note of this number in the space provided at the front of this handbook and make a separate note of the number to keep safe at home.

Additional security

Consider fitting any device which might deter intrusion by thieves. Customers are advised to identify their campervan with a method for subsequent identification if other forms of identification have been altered or removed.

Free crime prevention advice about securing your campervan, protecting your valuables, property marking either at home or whilst on site, can be obtained from the Crime Prevention Officer through your local Police station.

6. Arrival at site

6.1 Positioning the campervan	40
-------------------------------------	----

6.1 Positioning the campervan

Note: Check and observe site regulations.

Keep to roadways unless otherwise directed. Adhere to speed limits. Note that these are generally 10mph.

Note: Remember that the stopping distance on grass is considerably greater than on tarmac.

Only a person in possession of a current driving licence may drive on the site.

Selecting a pitch

Do not pitch in such a position that your campervan will obstruct others coming in.

Try to choose an area which is dry, reasonably level and preferably with a hard base.

If you have no alternative but to pitch on a slope try to ensure that you are facing down the slope, for when you leave.

Levelling the campervan

Leveling the vehicle may be required for comfort. Stepped leveling boards (fig A) or propriety ramps are ideal for this purpose



Fig. A

Awnings and Tents

Awnings and tents should only be used when permission has been obtained. When on grass and staying for more than a few days the ground sheet and/or side flaps of awnings should be periodically raised in order to avoid damage to the ground.

7. Connecting services

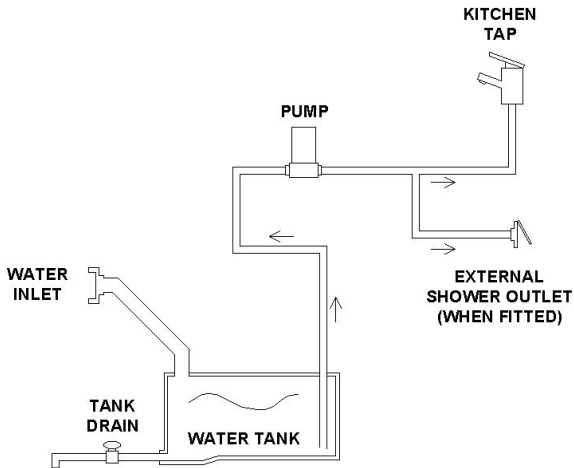
7.1 Water system - Introduction	42
7.2 Priming the Water System	43
7.3 The External Shower Point	43
7.4 Cleaning water system	43
7.5 Fresh water system	45
7.6 Tank heaters	46
7.7 Troubleshooting	47
7.8 Water fault finding	48
7.9 Gas Schematic	50
7.10 Gas	51
7.11 Types of gas	52
7.12 Changing a gas cylinder	52
7.13 External BBQ point	54
7.14 Gas fault finding	55
7.15 The electrical system	56
7.16 Overseas connection	56
7.17 230V mains electrical equipment power consumption	57
7.18 Connecting cable wiring	58
7.19 Typical appliance consumption	59

7.1 Water system - Introduction

All Swift Group campervan water systems have been designed around a pump fitted within the campervan. This pump draws water from an under floor or internal water tank, to provide water pressure within the water system, whenever it is switched on and water is available.

The schematic below shows the basic configuration of the water system:

Water system schematic - Campervan with fitted fresh water tank



When power is supplied to the pump, it will draw water from the water tank, and pump it to the campervan kitchen tap and shower. The pump is fitted with its own pressure switch, and will continue to pump water, until the pressure of water on the output of the pump reaches a pre-set level. For this pressure to be achieved, the taps must be closed.

When the taps are opened, water will leave the tap via the spout, and the pressure in the pipes between the pump and the taps will reduce.

Because of this reduction in pressure, the pressure switch on the pump will switch back on and the pump will again run to pump more water.

Close to the pump, the water under pressure is split into two paths:

1. Through blue water pipes routed directly to the cold connection of the tap.
2. To the shower.

7.2 Priming the Water System

1. Close the water tank drain valve
2. Fill the fresh water tank with water.
3. The lockable filling inlet for the fresh water tank is located in the rear passenger side panel accessible from the rear tailgate.

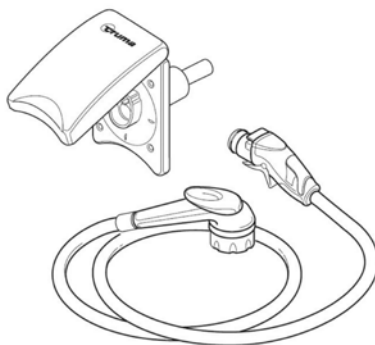


4. Open the kitchen tap.
5. Turn on the pump using the switch on the control panel.
6. Turn the tap off as and when the air is expelled and the water runs smoothly
7. Whilst holding the shower head down away from the vehicle to the ground, open the shower tap and shower head tap until all the air is expelled and the water runs smoothly. Turn the shower taps off.
8. Top up the fresh tank with water.

Please ensure all taps are fully turned off when not in use (except when winterising).

Note: All tanks are fitted with a breather which acts as an overflow. Overfilling a tank will result in water being expelled from the overflow.

7.3 The External Shower Point



The external shower point is positioned on the rear of the kitchen unit. To access open the offside sliding door.

To connect the shower, simply align the plug with the socket and push into position.

To remove, pull the lower trigger and pull the plug from the socket.

7.4 Cleaning water system

Clean the water system at the start and end of the season with sterilising fluid.

Sterilising

When cleaning the water system at the start or the end of the season it is advisable to use a suitable sterilising fluid available from your campervan dealer. The fluid must be suitable for use with stainless steel components

Flush the system thoroughly to remove the effective fluid traces.

When water is first introduced, or the water supply in the internal tank, runs out, air will be present in the pipework. It is important that every tap is run to remove any air in the system.

System care

Allowing water to freeze in the system may result in damage to the pump and plumbing system.

Non-Toxic antifreeze for potable water may be used with Truma pumps. Follow manufacturers recommendations.

Do not use automotive antifreeze to winterize potable water systems.

These solutions are highly toxic and may cause serious injury or death if ingested.

Sanitising

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

For the fresh tank:

1. Drain down the system (open all taps to allow air in, enabling the system to drain quickly). Removing the underside sump bolts is advisable to remove all water.
2. Remove any aftermarket filters fitted, and replace with a short length of hose or empty filter cartridge (this will ensure the filter is not affected by the disinfectant/sterilant solution).
3. Fill the water system with a disinfectant/sterilant solution (check that the solution at full strength appears at all taps/showers). Allow to stand for the recommended period of time.
4. Drain the system completely.
5. Thoroughly clean the outside of all taps/connectors with a cloth soaked in the disinfectant/sterilant.
6. Flush the system through with clean drinking water until no traces of disinfectant/sterilant can be detected at any tap.

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

Sterilising

Do not use products that contain aggressive agents for sterilising the water system. Always use products designed for stainless steel tanks available from your campervan dealer.

Waste water system

1. The waste water holding tank is secured under the rear of the vehicle, and is gravity fed.
2. In order to eliminate unpleasant odours as much as possible, only smooth bore pipes are used.

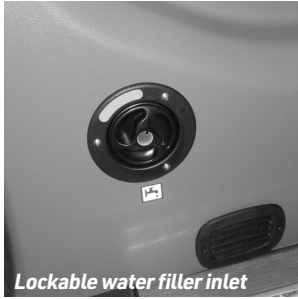
Should the waste water tank be overfilled, it is possible that waste water will backfill the pipes until it eventually appears in the kitchen bowl. In order to prevent this, please monitor the water level.

The waste water tank (the forward most water tank of the two under the rear of the vehicle) is fitted with a grey drain valve. Make sure to close the drain valve of the waste tank after emptying the tank to prevent waste water from draining from the tank accidentally.

7.5 Fresh water system

1. All fittings, including the holding tank, water pipes, taps and connections are of food quality material (to BS6920) and therefore, should not affect the quality of the water used. It is recommended however, that the system is flushed through twice before it is used for the first time, and always cleaned/flushed after it has stood unused for a period of time (eg over the winter period). Care has been taken (using smooth bore pipes etc) to eliminate as many water traps as possible.
2. When filling the fresh water system remember to check that the water source is suitable for use as drinking water and, if you are using a hose pipe or water carrier, that it is also made from nontoxic materials (preferably food quality material).
3. The fresh water tank is fitted with a manual drain valve on the tank, which will drain the contents of the fresh water tank.

⚠ CAUTION: If the fresh water tank is completely empty the pump will be unable to pressurise the system and will operate continuously. In this situation it is essential that, in order to avoid damage to the pump, it is switched off using the pump isolator switch on the control panel until such time as the water tank has been filled.



Lockable water filler inlet

Fresh Water Tank

Your campervan is fitted with a water tank filled via a lockable water filler cap located in the rear passenger side panel accessible from the rear tailgate. When filling, use a hose manufactured from non toxic material, to prevent tainting of the water.

7.6 Tank heaters

Depending on specification, your campervan may be fitted with 12v tank heaters, designed to prevent or reduce instances of freezing water in fitted water tanks.

If tank heaters are fitted, they can be turned on via a switch within the sink unit. Both fresh and waste tank heaters are equipped with internal thermostats, and when power is available via the switch in the sink unit, they will switch ON and OFF according to the temperature of the water in the respective tank. If the water temperature drops below 5deg C, the heater will switch ON. If the water rises to above 10deg C, the tank heater will switch OFF.

The tank heater does not monitor water levels in the fresh and waste tanks - if both tanks are empty, ensure the tank heaters are switched off to conserve power.

It is also possible to use the tank heaters en-route, i.e. while driving.

Please note that the heating elements use a 12V supply. With the engine off, and if used without a mains hook up and charger operating, then leisure battery power consumption will be increased (see consumption table on page 59 for more information).

7.7 Troubleshooting

Pump will not start, when the tap is opened:

- Check fuse(s).
- Check power source(s), and ensure there is sufficient voltage to run the pump.
- Ensure pump switch is ON.
- Using a multi-meter, ensure there is power at the pump. If not, refer to your dealer as there may be damaged cabling or a fault with the fusebox.
- Is the pump hot? If so, allow to cool before retrying.
- Has the vehicle been stored over winter? was it correctly winterised? If no, the pump may have frozen, causing permanent damage.

Pump runs, but will not pressurise system (i.e. no or little water being discharged from taps) - Not Pulsing:

- Ensure that there is water in the fresh water tank.
- Ensure water system has been primed correctly, (see '7.2 Priming the Water System' on page 43), and there are no air-locks present.
- Ensure there are no restrictions in the plumbing.
- Ensure the inlet side of the pump is watertight and not allowing air into the system.
- Using a multimeter check that the voltage is between 10 and 14.5 volts. If not, refer to your dealer.

Pump continues to run (for more than 5 seconds) after taps are closed or pump turns on for no reason:

- Check for leaks on the high pressure side of the pump.
- Ensure water system has been primed correctly, as per the handbook, and there are no air-locks present.
- Ensure the pump is securely mounted.
- Ensure the piping on the high pressure side of the pump is in good condition (not blowing or deforming).

Noisy or rough operation

- Check for leaks on the high pressure and low pressure side of the pump.
- Ensure that all pipes (especially those within 150mm of the pump) are not touching any furniture.
- Ensure the pump is securely mounted

Pump rapidly cycles (switches on or off) or water pulses from taps, including temperature pulsing:

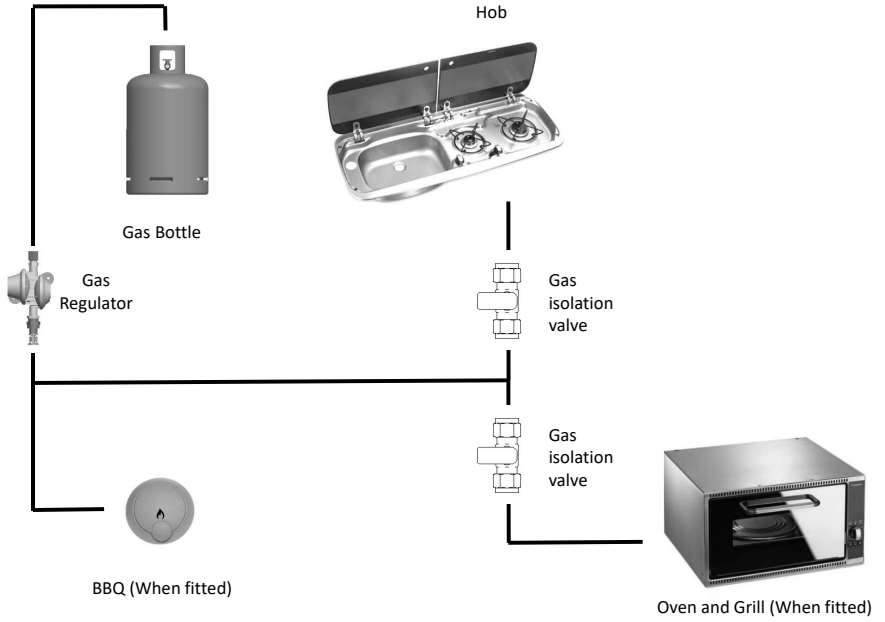
- Check for leaks on the high pressure and low pressure side of the pump.
- Ensure there are no restrictions in the plumbing

7.8 Water fault finding

Fault	Cause	Remedy
Water not flowing from any tap when operated but pump runs	Freshwater tank empty	Check
	Pump wired in reverse	Check wiring, refer to pump manufacturers instructions
	Pipe inlet or outlet pipe disconnected	Check connections
	Pump pipes restricted by kinking	Check pipes run
	Blockage in pump inlet or outlet pipe	Check, starting inside freshwater tank
	Blocked pump filter	Dismantle and clean filter. See pump manufactures instructions.
Pump does not run	Pump incorrectly wired	Refer to pump manufacturers instructions
	Pump fuse blown	Check wiring connection and then replace with fuse of correct rating
	Battery disconnected	Check connections
	Pump seized or overheated	Refer to pump manufacturers servicing instructions
	Pressure pump sensing switch may have failed	Refer to pump manufacturers servicing instructions
	Contacts may be faulty	Check contacts in plug and socket are clean and making contact
	Wiring connections may be faulty	Check wiring connections

Fault	Cause	Remedy
Reduced flow from tap	Battery condition low causing pump to run slowly	Check battery state of charge, refer to electrical supply note
	If new taps have been fitted they may be restricting flow	Disconnect and check that they have at least 1/4" (6.3mm) bore
	Pump needs servicing	Refer to pump servicing instructions
	Partially blocked pump filter or in-line filter, if fitted	Dismantle and clean if necessary
	Pump outlet pipe kinked restricting flow	Check and re-route if necessary
	Water leak	Check all water connections
Reduced flow from tap	Pipe kinking restricting flow	Check and re-route if necessary
	Bore size difference in taps	Use taps of equal bore size
If pump motor runs steadily and will not stop	Battery voltage may be too low (below 10.5 volts)	Check that there is water in the container Adjust switch and/or re-charge battery. Check all connections in pipework

7.9 Gas Schematic



7.10 Gas

General information Gas Cylinders

Bottled Liquefied Petroleum Gas (LPG) is the most convenient portable source of fuel for your vehicle.

The gas cylinder, cooking and heating appliances should be isolated when travelling.

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

The LPG system should be inspected annually by a competent person.

Only use gas cylinders that are located within their dedicated position within the gas bottle housing and never extend the hose - hose lengths must not exceed 400mm.

Your vehicle is supplied with a wall mounted gas regulator plumbed inside the gas bottle compartment. The regulator and all appliances work at a harmonised 30mb pressure, which work with Butane and Propane gas.

Pressure regulation system in this vehicle has a fixed working pressure of 30 mbar with a flow rate of 1.5 kg/H and complies with the requirements of EN 12864 annex D.

We do not recommend the use of an inline LPG BBQ with the 1.5kg/H regulator when other LPG appliances are in use.

Gas Hoses

High-pressure hoses or pigtails as they are called must be used with the new style regulator.

LPG cylinder i.e. Propane, Butane, BP and Camping Gaz cylinders all have unique bottle adaptor connections. It is important to check you have the correct hose and adaptor to suit your gas cylinders.

Push on hoses are no longer permitted under the latest regulations.

The high-pressure hoses have threaded connections and must be securely attached to the regulator and to the gas cylinder.

The hose connection to the pressure regulator relies upon a sealing washer(s) to maintain a gas tight joint, and it is essential to check that the washer is present, sound and correctly positioned prior to making the connection. The gas cylinder connection relies on a metal seating or bull nose connection to obtain a gas tight joint, therefore it is essential that the mating surfaces are clean and undamaged. In no case should a damaged valve or connection be used.

Ensure that there is a constant rise in the flexible gas hose between the gas cylinder outlet and the regulator elbow.

⚠ WARNING: Inspect flexible gas hose(s) regularly for deterioration and renew as necessary with the approved type, in any case no later than 5 years after the date of manufacture marked on the hose.

⚠ WARNING: Ensure that the high pressure hose is not excessively twisted or under stress when connected to the LPG cylinders and regulator.

⚠ WARNING: Always ensure the gas supply is isolated at the LPG cylinder (and not at the regulator) whilst the vehicle is in storage for any period. It is important to ensure that the high pressure gas hose has a continuous rise from the bottle cylinder to the regulator to allow any condensate to fall back into the gas bottle cylinder.

Cylinder compartment

The cylinder compartment has plastic mouldings for each cylinder position fitted to the floor of the compartment that are designed to fit the cylinders. Two straps are provided for retaining the bodies of the cylinders at mid to high level.

7.11 Types of gas

Propane

Propane is supplied in red, or partly red cylinders which have a female left hand threaded connector.

Scandinavian countries use the same connector.

Germany and Austria supply propane with a male connection.

Propane will work at temperatures as low as -40°C and is therefore suitable for all winter motorhoming.

Note: Swift recommend that 6kg Calor propane gas bottles are used.

Butane

Butane is supplied in the U.K. in green or blue cylinders.

All these have a male left hand thread

EXCEPT for Camping Gaz which has a special female right hand thread and Calor 7kg and aluminium bottles which have a special clip-on connection.

Continental cylinders usually have a male left hand thread similar to but not identical with U.K. butane.

Butane is only suitable for use at temperatures down to 2°C but will not work below that.

7.12 Changing a gas cylinder

Please use the correct size spanner for the gas hose connectors as this will prevent damage to the screw fittings and ensure that the fitting is tightened sufficiently.

- Turn off gas appliances
- Close the empty gas cylinder's valve
- Remove the high pressure hose from the gas cylinder.
- Attach the high pressure hose to the full gas cylinder.
- Open the full cylinder's valve.

Check the hose connection to the cylinder valve for leaks.

WARNING: When re-fueling your campervan, switch off the heater and close the cylinder valve.

Note: Modifications, servicing and repairs must only be carried out by a competent service engineer.

Note: The regulator should be replaced no more than ten years after manufacture.

WARNING: It is dangerous and illegal to operate LPG appliances whilst travelling. Service and repairs must only be carried out by a competent service engineer.

WARNING: Never allow modifications or repairs of electrical or LPG systems and appliances except by qualified persons.

Gas safety advice

WARNING: If you smell gas or suspect a leak or in the event of a fire and if it is safe to do so, isolate the gas appliances and turn off the gas bottles at the regulator. Evacuate the campervan and ventilate. Seek professional advice as to the cause of the leak.

Facts about LPG

- LPG is not poisonous.
- Bi-products are harmless.
- There is danger if all air and oxygen were excluded.
- (Ventilation holes must be kept clear at all times).
- LPG has been given a smell by the manufacturers in order to identify leaks.

Awning Spaces LPG Appliance Exhaust

There is no danger of pollution of an enclosed awning space by any LPG exhausts as awning spaces are generally well ventilated.

Space heaters may produce sufficient exhaust to pollute the awning space, if it is totally enclosed, from a general comfort, smell and hygiene point of view. In the extreme case there could be a build up of carbon dioxide to a dangerous level.

Campervan owners are advised to allow some fresh air circulation in the awning space when such appliances are in use.

General Safety Notes

In the event of leaks in the gas system or if there is a smell of gas:

- Extinguish all naked flames.
- Do not smoke.
- Switch off the appliance and gas cylinder.
- Open the windows.
- Do not operate any electrical switches.
- Have the entire system checked by an expert.

Precautions

- Never look for a leak with a flame. Always use a soap solution or its equivalent when testing connections. Do not operate any electrical apparatus whatsoever, especially light switches. If the leak is not obvious, the campervan should be evacuated and qualified personnel consulted.
- Avoid naked lights when connecting or changing a cylinder.
- Check the flexible hose frequently.
- The gas is heavier than air and therefore sinks to the lowest point.
- Keep bottle gas containers outside (and protected against frost). If they must be kept inside make sure they are well away from heat.

⚠ WARNING: Do not use appliances with a different working pressure to 30mbar.

⚠ WARNING: Maintain adequate spacing of combustible materials from sources of heat.

⚠ WARNING: Do not use independent portable gas appliances inside the vehicle. Cookers shall not be used as heaters

⚠ WARNING: A BBQ point inlet valve, if fitted, must only be used for the connection of portable LPG appliances.

⚠ WARNING: If in doubt, Ask!

Always read individual appliance instructions

Connection

Ensure that the gas regulator hose is correctly connected to the gas cylinder in gas bottle compartment and that the hose connection is tight.

Gas cylinders must be fully located, seated at the base of the bottles and restrained by the straps provided in the dedicated compartment position. Straps are positioned to suit 6kg bottles.

⚠ WARNING: If using cylinders other than those recommended, the user must ensure these are adequately supported, ventilation openings must not be obstructed and the cylinders must not cause damage to other fixtures

Open ended gas hoses must always be protected from dirt and insects.

Before turning on the gas supply at the regulator, ensure that all gas operated equipment in the campervan is turned off.

All gas equipment is supplied through a Gas Manifold System which has individual isolation taps for each appliance (Fig A), as follows:



Fig. A

LPG		GB: GAS TAP	
NL: GASKRAAN • DE: GASHAHN FR: ROBINET GAS			
	YELLOW		WHITE
GB: HOB NL: KOOKPLAAT DE: KOCHER FR: CUBINIER		GB: HEATER NL: VERWARMING DE: HEIZUNG FR: CHAUFFAGE	
	GREEN		RED
GB: OVEN NL: OVEN DE: OFEN FR: FOUR		GB: HOT WATER NL: WARM WATER DE: HEISSES WASSER FR: EAU CHAUDE	
	BLUE		WHITE
GB: FRIDGE NL: KOELKAST DE: KÜHLSCHRANK FR: FRIGO		GB: COMBINATION BOILER NL: COMBIBOILER DE: KOMBINATIONSHHEIZUNG FR: CHAUFFAGE COMBI	
	GB: OPEN NL: OPEN DE: OFFEN FR: OUVERT		GB: CLOSED NL: GESLOTEN DE: ZU FR: FERMEE

ⓘ Note: If the campervan is in storage or not being used for a period of time, we recommend turning off the gas supply at the gas bottles.

Flue Installations

All flue installations should be inspected once a year throughout their length for corrosion. Flues should be replaced if any sign of perforation is found. Ensure that the replacement is of an approved type

⚠ WARNING: Where a flue terminates below the floor it is essential to allow free evacuation of the products of combustion at all times. Ensure it is kept clear and the area around it unobstructed especially by snow.

7.13 External BBQ point

Models equipped with an external barbecue point can be used to power any gas appliance suitable for the gas used in the campervan, at the working pressure shown on the label in the barbecue outlet box. Please note when using the outlet that the fitted regulator will allow a maximum of 1.5kg per hour of gas to be taken from the gas bottle. Therefore the consumption of gas from both the appliances within the campervan and the appliance connected to the barbecue point cannot exceed a total of 1.5kg per hour at any one time. If you are in any doubt please consult your dealer for advice. To use point proceed as follows.

When external gas equipment is being connected, the operating pressure of the gas supply of 30 or 50 mbar must correspond with the operating pressure of the equipment that is being connected (see data plate).

The plug-in connection can only be made if the quick-acting valve is closed. The safety locking mechanism can be released by sliding back the coupling sleeve.

The coupling K-valve is designed such that the quick-acting valve can only be opened if the connection is being made via the plug-in connection.

The connection is made by inserting the plug-in connection into the safety coupling.

This operation can be carried out using one hand. After uncoupling the equipment, seal off the valve opening using the protection cap.

Note: The external gas socket is only suitable for removing gas, not for feeding gas into the gas system.



WARNING: Care should be taken when using the external barbecue point. Never barbecue next to an awning or tent.

WARNING: The barbecue point should only be used as an outlet point for gas, never connect a gas bottle direct to the outlet.

Thermal insulation heating

The classifications are as follows:

Grade 1

A campervan with an average thermal transmittance (u) that does not exceed 1.7w/(m²k).

Grade 2

A campervan with an average thermal transmittance (u) that does not exceed 1.7w/(m²k) and which can achieve an average temperature difference of at least 20°C between inside and outside temperatures when the outside temperature is 0°C.

Grade 3

A campervan with an average thermal transmittance (u) that does not exceed 1.2w/(m²k) and which can achieve an average temperature difference of at least 35°C between inside and outside temperatures when the outside temperature is -15°C.

7.14 Gas fault finding

Fault	Cause	Remedy
Grill does not light	No gas	Check level of gas in cylinder Check gas cylinder valve is on Check gas taps are on
	Air in pipe	Purge system Refer to oven manufacturers instructions
BBQ does not light	No gas	Check level of gas in cylinder Check gas cylinder valve is on Check gas taps are on
	Over gassed Air in pipe	Turn off appliance, wait 2 minutes and try again Purge system

7.15 The electrical system

General Information

It is strongly advised that the mains installation is inspected periodically to ensure safe use. The IET (BS7671) wiring regulations recommend that mains installations in campervans are re-inspected every 3 years or annually if the van is used frequently. The National Caravan Council lists the qualifications necessary to perform this inspection, but an NICEIC approved contractor is probably the first choice.

On arrival at the campsite

- Check the suitability of the supply, is it AC or DC, is the voltage and frequency correct.
- Ensure that there is a proper earth (3 pin socket outlet).
- If in doubt consult site staff.
- Make sure that the supply from the site is switched off.
- Make sure that the charger switch on the Consumer Unit is switched off.
- Lift the cover on the electricity inlet on the campervan, and insert the connector on the flexible supply cable.
- At the site supply point, connect the other end of the supply cable to this using the socket provided.
- Switch on the main switch at the site supply point.

Note: It is good practice to test the RCD (Residual Current Device) in the PSU before switching on. There is a test button on the RCD to test the lever, put the lever in the up position (on) before testing.

Note: As with the RCD it is good practice to check the Miniture Circuit Breaker (MCB) in the PSU. Switch all to the on position (lever up). If any do not stay up then there is a fault.

On departure from the campsite

- Switch off supply from the site, disconnect the cable at both ends.
- Switch off RCD.

WARNING: Never use a mains supply lead whilst coiled. Always uncoil the full length before connecting to the supply and remember to protect the cable from traffic.

WARNING: Current consumption in the campervan must not exceed 16 amps or the pitch permitted maximum if this is less than 16 amps.

7.16 Overseas connection

- Connection to a mains voltage overseas requires particular attention.
- Overseas supplies can be of reverse polarity.
- Reverse polarity results in equipment not necessarily being isolated when turned off, reverse polarity indicator on the Consumer Unit will light in the event of reverse polarity.
- The only sure way to make equipment safe is to unplug it.
- It is useful to have a means of checking polarity when overseas.
- If it can be achieved then connect live to live, and neutral to neutral to achieve full electrical protection.

WARNING: Never allow modifications or repairs of electrical or LPG systems and appliances except by qualified persons.

7.17 230V mains electrical equipment power consumption

Please note:

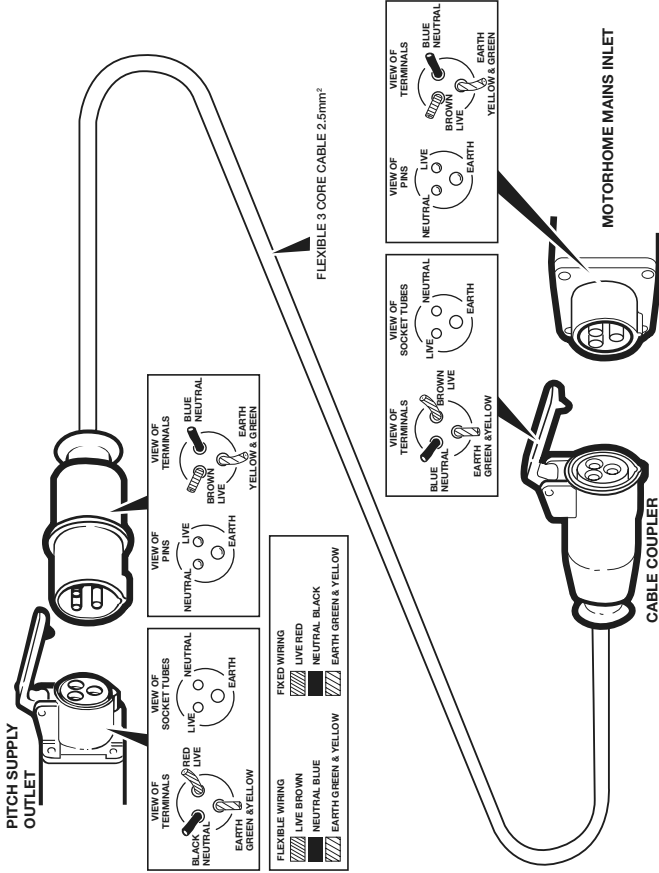
It is possible that the 230V mains electrical equipment may not all operate simultaneously. A typical UK campervan site mains hook up point provides a maximum output of 10 amps and on some continental sites the available output may be as low as 5 amps.

If your loading exceeds the site supply it may trip the site circuit breaker. Please check the available mains output with your site operator.

Similarly loadings on each circuit breaker within the vehicle should be observed.

A label positioned close to the MCB's will identify which appliances within the vehicle are fed from which MCB. Consulting the table (Typical Appliance Consumption Figures) in conjunction with this label, will give an indication of which appliances can, and cannot, (site supply allowing), be operated simultaneously.

Wiring of connecting cable and motorhome mains inlet



The legal length of the mains inlet cable is 25 ± 2 metres. When in use it must be fully uncoiled and protected from traffic.

7.19 Typical appliance consumption

Appliance/ Item	230 Volt		12 Volt		LP Gas grams/hour
	Watts	Amperes	Watts	Amperes	
Eberspacher Heating system	Not applicable		31 W (average)	2.6 amps	Not applicable
Vitrifigo Refrigerator	Not applicable		31 W (nominal)	2.6 amps	Not applicable
Dometic hob burners	Not applicable		Not applicable	Not applicable	Max 204 g/h
Minigrill	Not applicable		Not applicable	Not applicable	95 g/h
Battery Charger	690 W	3.0 amp	Not applicable	Not applicable	Not applicable
12v LED lights (each, depending in size of light)	Not applicable		0.4W - 6.1W	0.05 amp – 0.5 amp	Not applicable
USB socket	Not applicable		Up to 18W	Up to 1.5 amps	Not applicable
Water tank frost element (Winter pack)	Not applicable		30 W	2.5 amp each	Not applicable
Pressure switched water pump	Not Applicable		24W	2.0 amp	Not applicable

Note: These are approximate figures for guidance only, and are subject to changes in specification. The figures show energy consumption when an item or appliance is operating – i.e. a light is illuminated, or a heating system is providing space heating or water heating. Appliances which feature LCD or illuminated control panels can have a low current consumption when in stand by mode, or have a constant low current draw in the background to run their displays and electronic systems – these figures are typically 0.4 amps or less, for each applicable item. These electronic items can in most cases be switched off individually, or, use of the System Shutdown button on the power supply unit isolates all of these items.

8. Electrical Systems

8.1 Campervan battery	62
8.2 Modular Control System	63
8.3 Factory fitted Solar Energy System	82

8.1 Campervan battery

Your Monza campervan is equipped with two batteries installed by Ford.

During driving the Primary/Engine battery in the engine bay, and the Auxiliary (habitation area battery) are maintained by the Ford electrical system

When the engine is switched OFF, the EC940 control panel allows selection of either the Auxiliary battery, or the Primary battery. The default setting is Auxiliary battery.

The Auxiliary battery is specified and installed by Ford, and it is important that if this battery is replaced, it is a Ford replacement that is fitted, to ensure correct operation while engine is running. In addition, replacement of the Auxiliary battery requires removal of the passenger seat, Ford assistance is required to undertake this.

⚠ WARNING: Switch off all appliances and lamps before connecting or disconnecting the battery. Open flames and smoking are prohibited around the battery compartment.

Your campervan has been fitted with an in-line 40A fuse, between the Auxiliary battery and the camper harness / MCU100 control system. This is located in the passenger seat base, along with a further 40A fuse between Primary battery and camper harness / MCU100 control system. Do not use a higher rated fuse as this may cause damage to your campervan.

To preserve the life of your Auxiliary battery, please observe the following:

1. Do not leave all internal lights on simultaneously, as this will drain your Auxiliary battery mode quickly.
2. If all lights are required simultaneously, ensure the mains hook up lead is connected, and that the on-board charger is operating

Please note the auxiliary battery or batteries supplied with your campervan may not be fully charged and should be charged for a minimum of 24 hours before use.

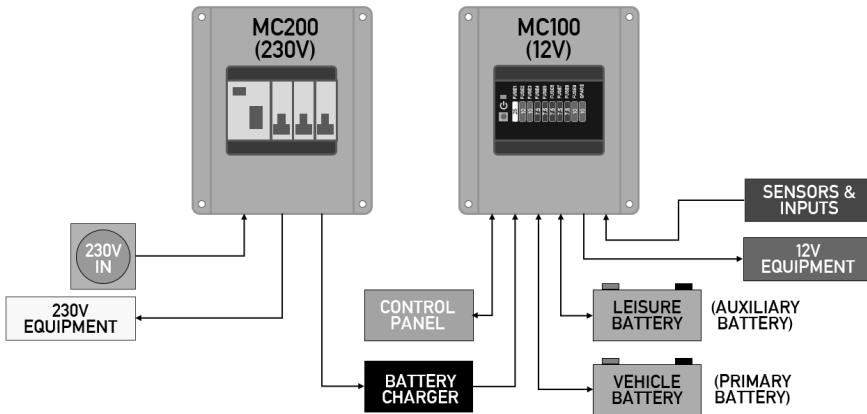
Battery performance may be affected by a number of aspects such as ambient temperature, age, state of charger etc.

⚠ WARNING: It is imperative that the battery is correctly secured as any movement could cause wear to the casing and cause electrolyte to leak.

⚠ WARNING: The passenger seat base contains the battery, and other electrical components. For your own safety do not store anything other than the leisure battery in the battery compartment

8.2 Modular Control System

The following diagram shows the typical configuration of the modular system which provides connectivity to the ancillary components in the vehicle.



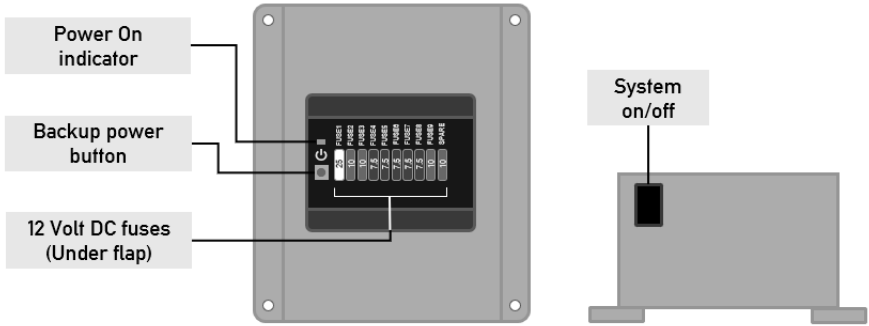
The system has a number of key components that you will need to be familiar with before attempting to use the system, these are:

- The MC100 Modular Control Unit - a 12V controller unit for monitoring, control and supply of power to battery powered equipment
- The MC200 Modular Consumer Unit - a 230V consumer unit for supplying power to mains powered electrical equipment
- The EC940 Control Panel - a remotely located user control panel used to turn circuits on and off and to display battery, water tank and other system information. This panel uses a graphical touchscreen with straightforward controls and reliable data communication to the Modular Control Unit
- The PX300 (300 Watt) Battery charger

Using the System

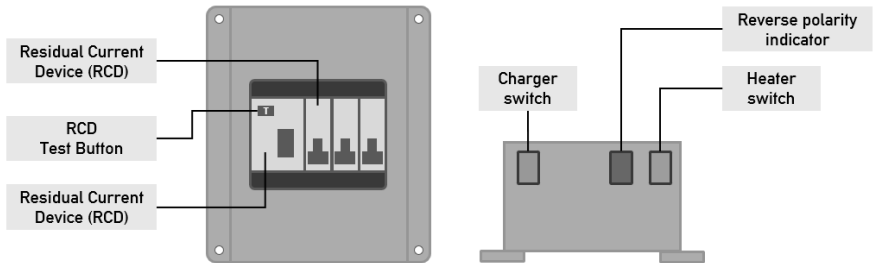
Modular Control Unit (MC100) - Component Layout

The MC100 provides protection, monitoring and control for the 12-volt electrical system in the vehicle. The system on/off switch can be used to isolate all 12-volt circuits (except permanent circuits)



Modular Consumer Unit (MC200) - Component Layout

The MC200 provides protection and switching control for the 230-volt electrical systems in the vehicle. The RCD switch can be used to isolate power all 230-volt circuits.



Activating the System

The system has a shutdown feature that can be used when the vehicle is in storage. This allows the leisure electronics to be turned off when not required to avoid flattening of the leisure and / or vehicle battery. When in the off state only circuits supplied by the permanent 12-volt output are still active, all other supplies are turned off.

Before using the system, please ensure the system shutdown button is in the on position (button in) the system is now active and the Power On indicator will illuminate. The circuits can now be switched on using the control panel.

Connecting to the Mains 230V supply and Safety checks

For your safety it is **IMPORTANT** that you follow these connections instructions each time your Leisure Vehicle is connected to a mains supply. This section assumes that the system is complete and that a Leisure battery has been installed.

a. Ensure suitability of the Mains Supply

Your Leisure Vehicle should only be connected to an approved supply that meets the requirements of BS7671 or relevant harmonised standards. In most cases the site warden will hold information regarding suitability of supply. If using a generator, you also need to comply with the requirements / instructions supplied

with the generator. Please note that some electronic generators may not be compatible with your leisure system.

b. Switch the Battery Charger / Power Converter OFF

Locate the green 'Charger' power switch on the MC200 and ensure the switch is in the off position (button out) before connection to the mains supply.

c. Connect the Hook-up Lead

Firstly, connect the supplied hook-up lead (orange cable with blue connectors) to the Leisure Vehicle and then connect to the mains supply.

d. Check Residual Current Device operation

Locate the RCD within the MC200 and ensure the RCD is switched on (lever in up position). Press the 'Test' button and confirm that the RCD turns off (lever in down position). Switch the RCD back to the on position (lever in up position).

e. Check Miniature Circuit Breakers

Locate the MCB's within the MC200 (adjacent to the RCD) and ensure they are all in the on (up) position.

f. Turn the MC100 ON

Locate the black 'Shutdown' button and ensure it is in the on position (press button in). Locate the green 'Charger' switch on the MC200 and turn to the on position (press button in). The charger switch will illuminate when turned on.

g. Check correct Polarity

Locate the 'Reverse polarity' indicator on the MC200 and ensure that the indicator is NOT illuminated.

h. Check operation of equipment

It is now safe to operate the 12V and 230V equipment.

Operation while driving

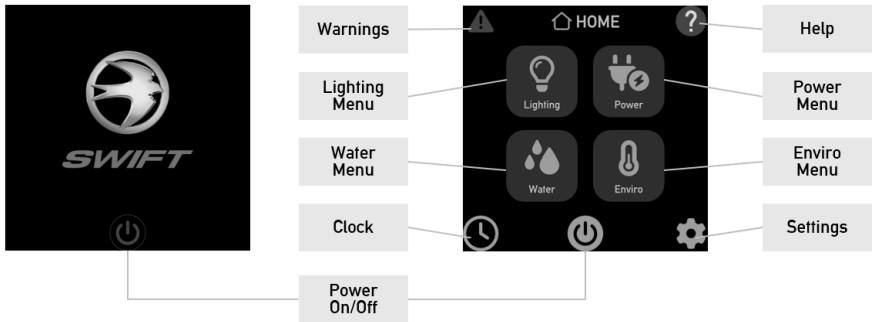
The power control system is designed to shutdown parts of the system while the engine is running. This is to meet Electro Magnetic Compatibility (EMC) regulations and to ensure the safe operation of the campervan. With the engine running the screen will show a warning 'ENGINE RUNNING'.

Please ensure the system shutdown switch on the MC100 is in the on (button in) position before driving. This will ensure the electronic system is active and will therefore be able to control the charging process and monitor other system circuits.









Control Panel - Layout

Your control panel will have an appearance as below, but depending on your type of vehicle (campervan) the control panel features will vary. Not all features are present in all vehicles.

EC940 Control Panel

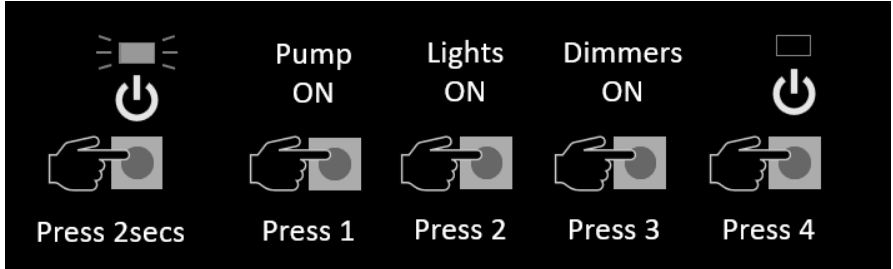


	<p>Power On/Off Button - After activating the MC100 by pressing the System Shutdown Button the display will beep twice and show the start-up logo. To activate power to all circuits, press the power on/off button, the panel will beep once. To turn the power off and enter standby mode, press the power button again. Note: If the display has been inactive for some time, the backlight will be switched off to save power. Simply tap the screen to restore normal brightness.</p>
	<p>Lighting Menu - Press the lighting button to show the lighting control screen. Here you can turn on / off or adjust the dimmable lighting levels.</p>
	<p>Power Menu - Press the power button to show the power information and control screen. Here you can view leisure/vehicle battery condition, and check battery charger and solar charger currents.</p>
	<p>Water Menu - For vehicles fitted with inboard water tanks, press the water button to show the water tank information and control screen. Here you can view tank levels and control related features.</p>
	<p>Pump Button - For vehicles not fitted with inboard water tanks, press the pump button to turn the water pump on. Press the button again to turn the pump off. The button border will illuminate when the pump is on.</p>

 <p>Enviro</p>	<p>Environmental Menu - Press the enviro button to show the internal and external temperature in degrees Celsius. Also shown is the internal relative humidity.</p>
	<p>Warnings Button - The system incorporates a number of warnings, for example if the battery becomes low. When a warning is active a warning box will appear along with an audible beeping sound. Until the warning has been fully cleared, the warning indicator will remain Red. Press the indicator to view any active warnings.</p>
	<p>Help Button - Press the help button to display the context sensitive help screens. These will provide more detail about how to use the currently selected screen.</p>
	<p>Clock Button - Press the clock button to display the current time in 24hr format. This screen also provides status tiles for the leisure battery, fresh water tank, 230V mains and solar panel charging, where fitted.</p>
	<p>Settings Button - Press the settings button to show the general settings screen. Here you can set the date & time, screen brightness and screen on-time, key beeps etc. There are also buttons on this screen to pair or delete Bluetooth devices. Press the home button to return to the main screen.</p>
	<p>Advance button - Pressing this button will advance to the next main section, for example to move between Lighting, Power, Water and Enviro screens</p>
	<p>Next Button - Pressing this button moves to the next screen within a section, for example to move between Leisure and Vehicle battery screens</p>
	<p>Home Button - Pressing this button will go back to the Main Menu screen</p>

Backup Power Button

Should the control panel not power up as expected, the Backup power button can be used to switch on the system and control circuits. Pressing the button for 2 seconds, will enable power and the indicator will illuminate. Then each press of the button will enable switched circuits as shown below. The final button press will switch off the system.



Clock / Status Screen

Clock screen - This screen not only displays the current time and date but also provides status tiles for the main services in the vehicle such as leisure battery and fresh water tank (if fitted)

	<p>Leisure Battery – The charge status is shown GOOD – No charge required FAIR – Charge recommended POOR – Charge immediately CHARGING – Charger is switched on DISCONNECTED – No battery detected</p>
	<p>Fresh Water (if fitted) - The water tank level is shown FULL – 100% GOOD – 50% to 99% LOW – 25% to 49% EMPTY – less than 25%</p>
	<p>Clock Setup – Press this button to access the clock setup screen</p>

Clock setup – Use this screen to set the current time and date

	<p>Set Time – Use the up / down arrows to set the required time</p>
	<p>Confirm settings – Use the tick to confirm the settings or cross to cancel the settings</p>

Note, the clock has a power backup, which can retain the clock settings for a number of weeks. If the vehicle has been stored for longer than this with no 12-volt power, the clock may need to be reset.

Environmental Readings

The system uses two sensors to measure internal temperature/humidity and external temperature. The combined internal temperature and humidity sensor is furniture mounted within the vehicle and plugs into the rear of the control panel, and the external sensor is mounted below the vehicle floor and plugs into the MC100 unit. The figures displayed are for information only, and it is hoped the information will be useful.



	<p>Internal – The internal temperature and humidity is shown along with a bar graph</p>
	<p>External – The external temperature is shown along with a bar graph</p>

Water System Operation

The EC940 control panel pump button operates the internal water pump drawing water from an on-board tank if fitted, or an external container when no tank is fitted.

The system incorporates an automatic tank fill feature. When turned on this will automatically fill the on-board water tank from the external container and will switch off automatically when full. To enable tank fill, press Fill Button on Fresh Water tank screen. To ensure the external pump is not damaged if the external tank runs dry, the pump runs for a maximum of 7 minutes.

The water tanks (fresh & waste) incorporate a level warning feature to warn the user when the fresh water level drops below 25% or when the waste water level reaches 100%. These

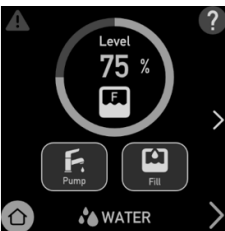
warnings can be enabled / disabled from the User Settings screen.

If the water pump power is turned on and the fresh water level drops to below 25% a warning beep will be heard and a message will be displayed on the control panel. To cancel the warning, press the bell icon.

If the water pump power is turned on and the waste water level rises to full (100%) a warning beep will be heard and a message will be displayed on the control panel. To cancel the warning, press the bell icon.

These warnings will not be repeated unless the water pump power switch is turned off and on again. This is to ensure the warning does not become a nuisance.

Fresh Water Tank screen. Here you can view the on-board fresh water tank level and control water tank related features.



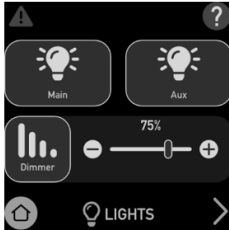
	<p>Fresh Water Level – the water level will be shown on the dial in steps of 25% 0% – Re-fill immediately 25% – Re-fill recommended 50% to 100% – Level OK If the optional ultrasonic sensors have been fitted, the level will increase in 1% steps</p>
	<p>Pump Button - Press the pump button to turn the water pump on. Press the button again to turn the pump off. The button will illuminate when the pump is on.</p>
	<p>Fill Button (if fitted) - Press the tank fill button to turn on / off the filling of the on-board water tank from the external water container. The pump will turn off automatically when the on-board tank is full or after 7 minutes have elapsed.</p>

Lighting & Dimming Operation

The Main button switches the primary lighting circuits in the vehicle on or off. The Aux button is used to switch additional lighting such as the awning light or entry light on or off.

The Dimmer button allows the dimmable lighting circuits (if fitted) to be switched on or off. A slider bar allows the lights to be dimmed to the required level.

Lighting screen. Here you can turn lighting on / off or adjust the dimmable lighting levels.



	<p>Main / Aux Button - Press these buttons to control the main interior lighting and any auxiliary lighting e.g., awning light, entry light etc.</p>
	<p>Dimmer Button (if fitted) - Press this button to turn the dimmable lighting on or off.</p>
	<p>Dimming Level (if fitted) - To change the dimming level, either press the (+) or (-) buttons or drag the slider to the required level. The dimming level is shown as a percentage.</p>

Power Management

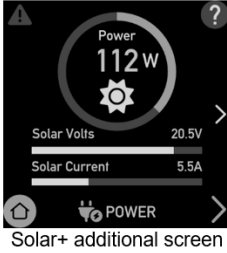
The status of the leisure and vehicle batteries can be viewed on the control panel display by selecting the Power menu. Pressing the 'next screen' button will switch between Leisure battery, Vehicle battery and Solar+ charging information (if fitted).

Battery Power screen (12V). Here you can view leisure and vehicle battery levels.



	<p>Selected Battery - Use the selected battery button to choose which battery you wish to use or charge with the 230V charger.</p>
	<p>Battery Condition – the battery condition will be shown on the dial and also described as below, GOOD – No charge required FAIR – Charge recommended POOR – Charge immediately CHARGING – Charger is switched on DISCONNECTED – No battery detected</p>
	<p>Battery Voltage – The voltage value will be shown together with a bar graph</p>
	<p>Battery Current – The battery current will be shown together with a bar graph</p>
	<p>Current Direction – A symbol with show if current is going into or out of the battery or if the battery is inactive.</p>

Solar+ Power screen (12V). An additional screen is available with more information about the solar panel charging status



	<p>Solar Power – The power currently being generated by the solar panel is shown. The dial indicates the power in Watts up to 300, which is the maximum rating of the solar regulator.</p>
	<p>Voltage & Current – The output voltage and current of the solar panel is shown together with a bar graph.</p>

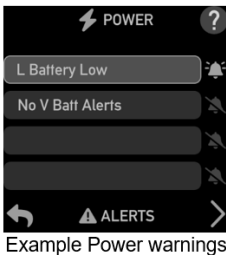
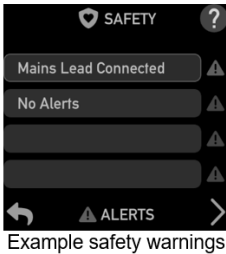
Smart Charging

When configured for campervans only, the MC100 unit incorporates a smart charge feature, which monitors both leisure and vehicle batteries and automatically adjusts and directs the charger power to maintain the leisure and vehicle batteries at an optimal level.





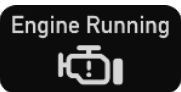

System Warnings

The system incorporates a number of warnings that are active at specific times. These are summarised in the table below and also covered by relevant sections of this manual.

Warning screens - When a warning is active a warning screen will appear on the control panel screen containing a description of the warning along with an audible beeping sound.



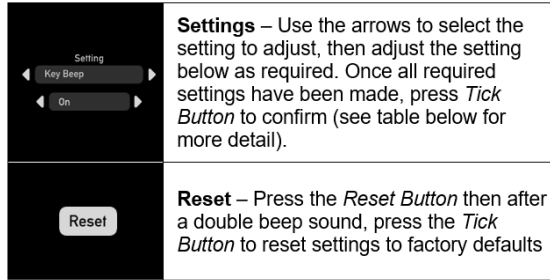
	<p>Active Warning – If a warning becomes active, it will be highlighted (Orange for power/water alerts and Red for safety alerts)</p>
	<p>Muting a warning – To mute the warning sound, press the bell icon next to the alert. The icon will then become Grey and the sounder will stop. Note that safety warnings can only be muted by correcting the cause e.g., removing mains lead whilst engine is running</p>
	<p>Clearing a warning – The warning will remain highlighted until it is fully cleared, for example by re-filling the water tank or re-charging the battery</p>

Warning	When	Type
Fresh water level low 	With pump turned on and fresh water level low (less than 25% full) Only available when an on-board tank is fitted	Message on screen and 60 second audible beep
Leisure battery low 	With control panel power on and leisure battery selected (as active battery) and the charge level falls below:- Lead Acid: 11V AGM: 11V Lithium: 12V	Message on screen and 60 second audible beep.
Leisure battery very low 	With control panel power on and leisure battery selected (as active battery) and the charge level is below:- Lead Acid: 10V AGM: 10V Lithium: 11V	Message on screen and 60 second audible beep. If no action taken after 30 seconds, then the system will switch the power off to prevent severe discharge of the battery
<p>Note: This is an emergency cut off level to protect the battery from severe damage. You should not rely on this cut off level during normal operation, but manage your power consumption to a discharge level of 11.5V or above.</p> <p>This cut off only applies to power drawn from the battery by the leisure equipment that is controlled by the control panel power switch; it will not protect the battery from discharge by permanently connected equipment.</p>		
Leisure battery high 	With control panel power on or off and leisure battery is selected (as active battery) and the voltage level rises above 15.4V	Message on screen and repeated beeps from the control panel. The power is automatically turned off. The beeping will not stop until the fault is cleared.
Vehicle battery warnings	If the vehicle battery is selected instead of the leisure battery, then similar warnings to those described above are applied to the vehicle battery. The vehicle battery low warning level is 10.9V	
Engine running 	When the engine is started the system power will be turned off	Message on screen stating 'engine running'.
Mains lead (hook-up cable) still connected / plugged in 	When the engine is started and the mains cable is still plugged in and the charger is switched on	Message on screen and repeated beeps from the control panel. The beeping will not stop until the hook-up lead is removed.

User Settings

The EC940 control panel has a number of user settings, which can be accessed by pressing the User Settings button.

User Settings screen - Here you can set the key beeps, screen brightness, screen on time etc.



Section	Possible Settings	Description
Key Beep	On / Off	Turn the key beep sound on or off
LCD Brightness	10% to 100%	Adjust screen brightness
Backlight Time	30 seconds to 1 hour + Always On	Adjust time before screen backlight goes off
Water Alarms	On / Off	Turn the water alarms beep sound on or off
Lighting Mode	None / Lights / Lights & Dimmer	Sets lighting behaviour when control panel is switched on, None – Not used Lights – Normal lights come on. Dimmable lights are off. Lights & Dimmer – Normal lights come on. Dimmable lights come on at the last used dim level setting

8.3 System Technical Information

The following section provides further technical information relating to the electrical system. You can also access the supporting technical manual from www.sargentltd.co.uk

Residual Current Device & Miniature Circuit Breakers

The Residual Current Device (RCD) is basically provided to protect the user from lethal electric shock. The RCD will turn off (trip) if the current flowing in the live conductor does not fully return down the neutral conductor, i.e., some current is passing through a person down to earth or through a faulty appliance.

To ensure the RCD is working correctly, the test button should be operated each time the vehicle is connected to the mains supply

The Miniature Circuit Breakers (MCB's) operate in a similar way to traditional fuses and are provided to protect the wiring installation from overload or short circuit. If an overload occurs the MCB will switch off the supply. If this occurs you should investigate the cause of the fault before switching the MCB back on.

MCB	Rating	Output Wire Colour	Description
1	16 Amps	Yellow	Heating System
2	10 Amps	White	230V Sockets
3	10 Amps	Black	Fridge / Charger

Generator Usage

Caution should be used before connecting a generator to your campervan.

⚠ WARNING: Never start or stop the generator while electrical loads are connected and switched on. Start the engine, let it stabilise and then connect the electrical load. When stopping the generator, disconnect the electrical load and let engine stabilise before switching off.

Whilst some generators use electronic inverter technology, others use a more basic principle to generate the 230V supply. Preference should be to choose a generator which produces a consistent sinusoidal wave form with accurate voltage control.

The Reverse Polarity warning light on the MC200 mains unit may illuminate when using a generator. This is a normal side effect when

using some types of generators. Instead of connecting the neutral conductor to earth, some generators centre-tap the earth connection making both neutral and live conductors 110V above earth. This 110V difference causes the neon polarity indicator to illuminate.

In most cases it is safe to use a generator, but please consult the generator handbook for further information.

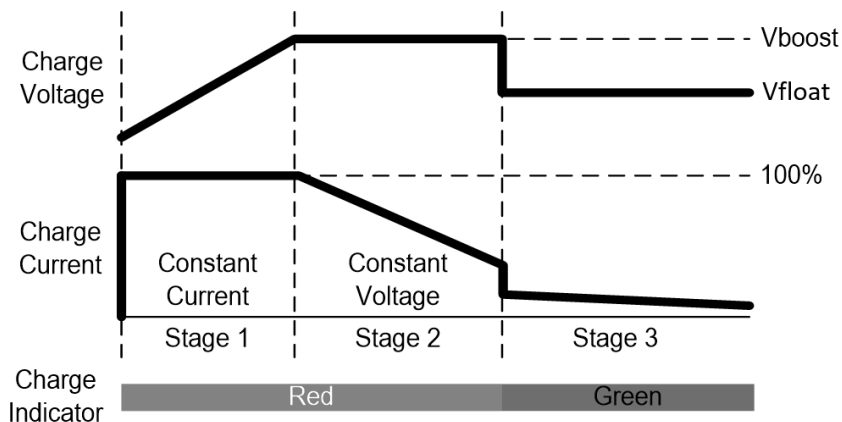
Battery Charger

The system incorporates an input to allow connection of an external battery charger such as the Sargent PX300

PX300 – 300Watt, 3-Stage Battery Charger

During stage 1 the battery voltage is increased gradually while the current is limited to start the charging process and protect the battery. At stage 2 the voltage rises to 14.4V to deliver the bulk charge to the battery. When the battery is charged, the voltage is decreased at stage 3 to 13.6V to deliver a float charge to maintain the battery in the fully charged state. The charger can be left switched on continuously as required.

The battery charger / power converter also provides power to the leisure equipment when the mains supply is connected. This module supplies DC to the leisure equipment up to a maximum of 25 Amps (300 Watts), therefore the available power is distributed between the leisure load and the battery.



⚠ WARNING: Under heavy loads the Battery Charger case may become hot. ALWAYS ensure the ventilation slots have a clear flow of air. Do not place combustible materials against / adjacent to the charger.

Leisure Battery

Type / Selection

For optimum performance and safety, it is essential that only a proprietary brand LEISURE battery is used and it is suggested to select a battery from the NCC Verified Battery Scheme with a typical capacity of 75 to 180 Ah (Ampere / hours). Depending on the prospective use of the vehicle the correct type should be selected (A, B or C). A normal car battery is NOT suitable. This battery should always be connected when the system is in use.

The MC100 is configured to work with standard lead acid leisure batteries, and in most cases is also compatible with the latest range of Absorbed Glass Matt (AGM) batteries. The

system is also suitable for Lithium batteries with built-in Battery Management Systems (BMS) such as the Sargent Lithium+ Series. Before fitting non-standard batteries please check that the charging profile is suitable for the type of battery by referring to the battery documentation or battery manufacturer.

Some vehicle installations can cater for two leisure batteries connected in parallel. In these cases, it is recommended that two identical batteries are used.

The leisure (and vehicle) battery feed should be protected with an inline fuse between the battery and the electrical harness, and this fuse should be located immediately outside the battery compartment or within 500mm of the battery. The recommended fuse rating is 20A per battery.

Installation & Removal

Always disconnect the 230V mains supply and turn the green charger switch on the MC200 to the off position (button out) before removing or installing the battery.

When connecting the battery, ensure that the correct polarity is observed (black is negative [-] and red is positive [+]) and that the terminals are securely fastened. Crocodile clips must not be used.

Note: If a tracking solution is fitted with an active Thatcham subscription, it is advised to inform the tracking call centre before removing the battery, to avoid an unnecessary security call.

Note: If a tracking solution is fitted with an active Thatcham subscription, it is advised to inform the tracking call centre before removing the battery, to avoid an unnecessary security call.

WARNING: Explosive gases may be present at the battery. Take care to prevent flames and sparks in the vicinity of the battery and do not smoke.

Operation / Servicing

This information relates to lead acid batteries, other specific requirements may be relevant if lithium batteries are fitted, therefore please refer to the battery documentation.

Under normal circumstances it should not be necessary to remove the battery other than for routine inspection of the terminals and "topping up" of the battery fluid where applicable. Please see instructions supplied with the battery.

Note: Do not over discharge the battery. One of the most common causes of battery failure is when the battery is discharged below the recommended level of approximately 10V. Discharging a battery below this figure can cause permanent damage to one or more of the cells within the battery.

To prevent over discharge, the MC100 system incorporates a battery protect circuit that warns the users and then disconnects the batteries when they fall below set values.

If a warning is active a beep will be emitted by the control panel and information will be shown on the screen. To mute the warning, press the bell icon. These warnings will not be repeated unless the power switch is turned off and on again. This is to ensure the warning does not become a nuisance.

Battery	Voltage cut off	Action after cut off	Notes
Vehicle	10.9V	Battery selection is changed from Vehicle battery to Leisure battery. If the leisure battery is below 9V then a further warning will occur (see below).	This cut off level is designed to protect the vehicle battery from over discharge. The 10.9V level ensures there is sufficient power in the battery to run the vehicle electronics and start the vehicle. This cut off only applies to power drawn from the battery by the leisure equipment; it will not protect the battery if you leave vehicle circuits switched on, such as the road lights.
Leisure	9V	Power is turned off	This is an emergency cut off level to protect the battery from severe damage. You should not rely on this cut off level during normal operation, but manage your power consumption to a discharge level of about 11.5V. This cut off only applies to power drawn from the battery by the leisure equipment that is controlled by the control panel power switch; it will not protect the battery from discharge by permanently connected equipment.

12 Volt DC Fuses

⚠ WARNING: When replacing fuses always replace a fuse with the correct value. NEVER replace with a higher value / rating as this could damage the wiring harness. If a replacement fuse 'blows' do not keep replacing the fuse as you could damage the wiring harness. Please investigate the fault and contact your dealer.

The following table shows the fuse allocation for the 13 fuses fitted to the PSU. Please note that fuses are dependant on PSU versions, so not all fuses may be present.

Fuse	Rating	Fuse Colour	Description
1	25 Amps	White	Charger
2	10 Amps	Red	12V Sockets / USB Sockets
3	10 Amps	Red	Main Lighting
4	7.5 Amps	Brown	Auxiliary / Awning Lighting
5	7.5 Amps	Brown	Filler Pump
6	7.5 Amps	Brown	Pump
7	7.5 Amps	Brown	Dimmable Lighting
8	7.5 Amps	Brown	Permanent (Unswitched)
9	10 Amps	Red	Compressor Fridge (Permanent Switched)

ⓘ Note: Fuses (2-9) have a Red LED below them which provides indication that the fuse has blown. The following table shows details of the recommended fuse(s) located at each battery.

Fuse	Rating	Fuse Colour	Description
Leisure Battery 1	40 Amps	Orange	Fuse remotely located near battery1
Vehicle Battery	40 Amps	Orange	Fuse remotely located in supply from vehicle battery

8.4 Common Fault Table

Fault	Possible Cause	Proposed Fix
No 230-volt output from MC200	Connecting lead between the site and Leisure Vehicle not connected	Check and connect lead.
	RCD switched off	Reset RCD
	RCD not operating correctly	Check supply polarity; if the RCD continues to fail contact your Dealer as there is probably an equipment or wiring fault.
	MCB switched off	Reset MCB by switching OFF (down position) then back ON (up position), if the MCB continues to fail contact your Dealer as there is probably an equipment or wiring fault.
	No or deficient supply from site	Contact site Warden for assistance.
	Another fault	Contact your Dealer.
Reverse Polarity light is illuminated on MC200	Mains Supply reversed?	The reverse polarity light is designed to illuminate when the Live and Neutral supply has been reversed / crossed over. If the light illuminates there is a problem with the site supply or the cable connecting the supply to your vehicle. The light is designed to work on UK electrical supplies (where the neutral conductor is connected to earth at the substation). If you are using your vehicle outside the UK this light may illuminate when no fault exists. In these cases, consult the site warden for advice
	Generator being used	‘The Reverse Polarity warning light is on when using my Generator’. This is a normal side effect when using some types of generators. Instead of connecting the neutral conductor to earth, some generators centre-tap the earth connection making both neutral and live conductors 110V above earth. This 110V difference causes the neon polarity indicator to illuminate. In most cases it is still safe to use the generator, but please consult the generator handbook for further information.

Fault	Possible Cause	Proposed Fix
Control Panel Problems	Control Panel has no display	<p>Check batteries and fuses, turn system isolate switch and charger switch on and ensure mains supply is connected.</p> <p>Check control panel connecting lead at MC100 and behind Control Panel.</p> <p>Contact your Dealer.</p>
	12V Power turns off	<p>Battery protect feature has operated to protect the Vehicle battery and or the Leisure battery.</p> <p>Over voltage protection has been activated, the control panel will display a warning. A number of things can cause this but the most common is the solar panel, it is worth checking the regulator is connected correctly and operating within the correct parameters.</p> <p>Engine has been started; all equipment has been disconnected to meet EMC requirements.</p>
	Control Panel locked / erratic function	<p>Observe control panel handling instructions.</p> <p>Control panel software may have crashed. Reboot control panel by turning off the MC100 isolate switch. Wait 30 seconds then turn the switch back on. Check with your dealer that your system has the latest software installed, as an update may be available.</p>
No 12-volt output from PSU	No 230V supply	Check all above.
	Charger not switched on	Turn on charger switch (on MC200), switch will illuminate.
	Battery not connected and / or charged	Install charged battery.
	Power button on control panel not switched to on	Turn power on at control panel.
	Battery flat / Battery fuse blown	Recharge battery, check fuses, check charging voltage is present at battery.
	Fuse blown	Check all fuses are intact and the correct value fuse is installed as per fuse table.
	Equipment switched off / unplugged	Check equipment is switched on and connected to the 12V supply.
Another fault	Contact your Dealer.	
Pump not working	Fuse blown	Replace fuse with correct value as per fuse table.
	Pump turned off	Turn pump on by pressing the pump button at the control panel.
Lights not working	Fuse/s blown	Replace fuse with correct value as per fuse table.
	Lights turned off	Turn Lights on by pressing the lights button, use dimmer at the control panel.

Fault	Possible Cause	Proposed Fix
Communications not working	Bluetooth not paired	Using System Settings menu, select Bluetooth Pair option.
	Bluetooth not active on Device	Ensure that the handheld device has Bluetooth switched on and that the device supports the Bluetooth 4 standard (BLE).
	Bluetooth out of range	Ensure the handheld device is within 7M of the middle of the campervan.

Technical Support

If you require technical support on Sargent products then please visit the Support Customer Support site at <https://sargent.zohodesk.eu/portal/en/home> In the Knowledge Base you can view product documentation and search frequently asked questions and in the Ticket section you can raise a ticket to request help from the support team.

Updates

From time to time there may be updates to the system firmware; these updates will be done at service intervals by your dealership.

Technical Data & Approvals

Equipment – MC100, MC200, EC940

Outline Specification		
Outline Specification – MC200		
INPUT 230V	230 Volts / 0 to 16 Amps	+ / - 10%
OUTPUT 230V	RCD protected, 2 x MCB outputs of 10A & 1 x MCB output of 16A Separate switched channels for heating system and charger	
Outline Specification – MC100		
VEHICLE & LEISURE Inputs	2 x 20A battery inputs via 2 x 2-way connectors	
CHARGER Input	1 x Dedicated battery charger input capable of supporting up to 25A charger via a 2-way connector	Check the charger rating plate to ensure the maximum current is $\leq 25A$
OUTPUTS	25A total output via multiple switched channels protected by 8 fused outputs	
INPUTS (Signals)	Engine running, plus multiple vehicle connections	
TMP Input	1 x Temperature sensor	
FRESH & WASTE Inputs	4 x Fresh water level, 4 x Waste water level	Fresh water negative sensed Waste water negative sensed

Outline Specification

SWITCH Inputs	2 x Momentary switch inputs	
DATA In / Out	2 x CANBus Data communication & Power for Control Panel and other CAN accessories	
IP rating	IP31	
Operating temperature	Ambient 0 to 35° Celsius	Automatic shutdown and restart if overheated / overloaded
Dimensions		
MC100 Mains Unit	Overall size (HxWxD) 180 x 166 x 75mm Clearances 75mm above, 50mm left & right	Weight 0.71 Kg
MC200 Control Unit	Overall size (HxWxD) 190 x 166 x 95mm Clearances 75mm above, 50mm left & right	Weight 1.24 Kg
EC940 Control Panel	Overall size (HxWxD) 94 x 94 x 26mm Cut-out size (HxW) 86 x 86mm	Fixing via hidden spring clips Weight 135g
Temp / Humidity Sensor	Overall size (HxWxD) 35 x 20 x 36mm Cut-out size (HxW) 26 x 14mm	

Approvals

Power Supply Unit: Automotive Electro Magnetic Compatibility (EMC) to ECE Reg10.06, Type approval number E11 10 R 06 12228

Control Panel: Automotive Electro Magnetic Compatibility (EMC) to ECE Reg10.06, Type approval number E11 10 R 06 12231

System: BSEN 1648-1, BSEN1648-2 compliant, BS7671: 2018 compliant

Residual Current Device: RCD 40A 30mA trip to BS EN 61008

Miniature Circuit Breakers: MCB's type C 6000A breaking capacity to BSEN 60898

Integrated Charger: BS EN 60335-1/2.29, 2006/95EC, IEC61000-3.2/3:1995, 1.


Low Voltage Directive: 2006/95EC TUV-014900-A1, EN55022, Class B, EN55024/ Level 2

Declaration of Conformity

Equipment: Leisure Power Control System

Model name(s): MC100, MC200, EC940

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced approvals. The unit complies with all essential requirements of the Directives.

Signed	Name	Position	Manufacturer
	I L Sargent	Technical Director	Sargent Electrical Services Ltd Unit 35, <u>Tokenspire Business Park</u> , Woodmansey, Beverley East Yorkshire, United Kingdom
Date: 26/01/24			

Whilst every effort has been made to ensure the accuracy and completeness of this document, no guarantee is given against errors or omissions. This document may be updated / improved over time therefore please check with your dealer / supplier for update information or visit www.sargentltd.co.uk

8.3 Factory fitted Solar Energy System



Your campervan is fitted with a solar panel and regulator. This solar panel and regulator may provide additional 12V power whenever sunlight is available to the Camper, and can provide a daily boost to the leisure battery when camping without a mains 230V supply.

It is also possible to manually direct solar charge to the vehicle battery instead of the leisure battery, using the battery select switch on the camper van control panel (see section described elsewhere in this handbook.)

Battery power

Depending on the state of the charge of the battery it may take a few hours to several days to recover a discharged battery.

For obvious reasons the solar panel and regulator will only work during daylight hours, whereas the demands on the leisure battery (power use) may be twenty four hours per day.

SX150-12



Regulator operation

The MPPT (Maximum Power Point Tracking) regulator fitted to your campervan is fully automatic and has a maximum rating of 150 watts. When the solar regulator is not working (i.e. panel is in darkness) the regulator does not use any 12v power.

Maintenance and cleaning

The solar panel will require cleaning periodically in order to maintain the performance of the panel, a caravan, car shampoo or simple soap can be used; no abrasive cleaners should be used. Take care if working at height to clean the panel.

9. Fitted equipment

9.1 Eberspacher heater	84
9.2 Refrigerator	87
9.3 Dometic Hob and Bowl	88
9.4 Dometic mini grill	93
9.5 Dometic 972 Toilet	94
9.6 Swivel seats	94
9.7 Care of laminate tops, tables, furniture and doors	94
9.8 Furniture doors	94
9.9 Table storage	94
9.10 Opening the Elevating Roof	95
9.11 Rock and roll rear bed	99
9.12 Reverse Camera System	100

9.1 Eberspacher heater

Heating Controls

Your Camper van has been fitted with an Eberspacher Diesel heating system and a easy-start controller.

The Heater is situated under the vehicle with the louvered outlet mounted on the rear of the passenger seat.

It can be rotated to direct the heat to the area required.

The controls for the heater are mounted on the Control panel at the corner of the Sink top.

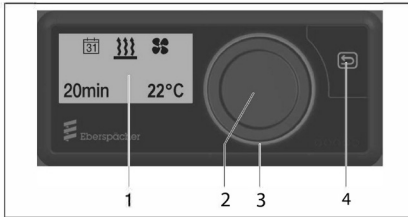
Please refer to the full operating instructions within the document folder. Also use the QR code below to access it electronically.

https://www.butlertechnik.com/downloads/Eberspacher_EasyStart_PRO_-_Operating_Instruction_Guide.pdf



EasyStart Pro has a simple operating structure. All settings, functions and parameters are controlled with a single operating button.

Description of the operating components



Display

The display shows the following parameters:

- Current operating mode
- Current interior temperature
- Operating mode
- Timer positions
- Settings
- Error codes

Operating button

- The operating button is used to operate, select and program all the functions and values in EasyStart Pro. The operating button can be turned and pressed.
 - Turning selects a value/function within a menu.
 - Turning to the right increases a value or selects the next menu item to the right.
 - Turning to the left decreases a value or selects the next menu item to the left.
 - Pressing confirms the flashing menu item or value on the display.
 - If EasyStart Pro is in sleep mode (display OFF), pressing or turning "wakes up" the active mode. If the heater is switched off, the Start mask is displayed. If the operator makes no inputs, an overview mask is displayed before the system goes to sleep mode.
 - When the heater is running, the last mask is displayed.

Note:

- A LONGPRESS (min. 2 sec.) immediately starts all connected heaters. The standard operating time here is set at the factory to 30 minutes.
- During operation, a LONGPRESS (min. 2 sec.) immediately switches off all connected heaters.
- If terminal 58 has voltage, sleep mode will not be activated.

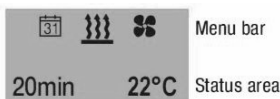
LED ring

- The LED ring with its different colours serves to indicate the operating mode.
 - Red ring: Heating mode
 - Blue ring: Ventilator mode
 - Orange ring: Residual heat mode
 - White ring: System configuration
 - Red flashing ring: Fault in one of the connected heaters or in EasyStart Pro

Button BACK






- The BACK button causes a jump back to the menu or command at the next higher level.
- If EasyStart Pro is in sleep mode (display OFF), pressing “wakes up” the live mode again.
 - If all heaters are switched off, the Start mask will be displayed.
 - If a heater is running, the last mask is displayed.

The menus and their functions





Menu bar

The following menus can be selected from the menu bar (turn the operating button to the right):

Symbol	Menu
	Heat
	Ventilate
	Residual heat
	Settings
	Timer

Note:

The Ventilation  function is only displayed if the heater supports this function.

The timer function  is not available on vehicles in ADR mode.

Status area

When the menu (heat, ventilate, settings, timer or residual heat) is activated, various items of information are display in the status area. These are presented and described in the respective sections of these operating instructions.

Input area




Display

e.g. Heating ON/ Operating time 107 min.

In the input area, the symbol of the selected menu item appears in the middle of the display. The corresponding setting value flashes in the input area and can be altered with the operating button by turning and confirmed by pressing.

Notes on operation and setting

Activating EasyStart Pro

If the display is not lit, EasyStart Pro has to be activated. Pressing the operating button or BACK button displays  the Start mask; you can then continue with operation or setting.

Display

The display is lit

- During operation of EasyStart Pro
- When terminal 58 has voltage, for example when the vehicle lights are switched on (optional).
- When the heater is ON (the display goes out after approx. 30 seconds).

Display goes out

The display goes out after approx. 30 seconds if

- No settings are made.
- No heater is switched on.
- When using terminal 58, when the vehicle lights are switched off.

EasyStart Pro then goes to sleep mode. EasyStart Pro then has to be activated (see above) before a new input can be made.


Activating a function

The symbol of the function to be activated appears in the middle and flashing in the display.

Flashing function / flashing value

- Select the flashing function in the menu bar by pressing the operating button.
- Increase or decrease the flashing value by turning the operating button. Then confirm the selected value by pressing the operating button.

Cancel / exit settings

Every setting can be cancelled or exited by pressing the BACK button .

Note:

Settings and changes must always be confirmed by pressing the operating button, otherwise they will be lost.

Setting the operating time

The operating time can be set individually using the operating button.

- Turning to the right increases the operating time.
- Turning to the left decreases the operating time.
- Setting range for the operating time: min. 10 minutes to max. 120 minutes in one minute steps.
- The operating time can be prolonged to 720 minutes. Above the 120th minute, the input is made in 60-minute steps. To do this, please contact the installation workshop.

Note:

- Continuous heating mode is additionally possible for air heaters.
- The operating times of all connected heaters can be set independently of one another.

Operating modes

Heat

In this operating mode, the heater heats the vehicle engine via the coolant circuit and the vehicle interior via the ventilation louvres, irrespective of the configuration.

Ventilate

In this operating mode, the heater supplies the vehicle interior with fresh outdoor air via the ventilation louvres. This operating mode is only possible if the function is supported by the heater version (see also Technical Description of the Heater).

Temperature sensor

EasyStart Pro has an integrated temperature sensor that measures the vehicle interior temperature. During installation, an additional external temperature sensor can be connected and integrated into the system.

With air heaters, the temperature sensor installed in the heater for control of the heater can also be used to measure the vehicle interior temperature. This will be configured by the installing workshop during initial commissioning.

Further devices

EasyStart Pro allows the simultaneous operation of up to 4 heaters or, for example, also a stationary air conditioner. It is also possible to combine a heater with a fan. The fan is then used to circulate the air inside the vehicle. All connected systems can be operated simultaneously or independently of one another.

Note:

The number of symbols and displays differs depending on the installed heater and feature options.


Factory setting

Timer mode (for all heaters)

- Weekday group: Mon - Fri
- Departure time: 07:00 h

Air heaters

- Operating time: 30 minutes
- Target temperature: 22°C / 72°F

 Note: In the interest of safety, replacement parts for an appliance shall conform to the appliance manufacturer's specifications and should be fitted by them or their authorised agents.

9.2 Refrigerator

Your campervan is fitted with a Vittrifigo C42DW Compressor refrigerator.

Using this model number, please read the user instructions for the refrigerator, which are available from the following location:

<https://penguinfrigo.co.uk/wp-content/themes/genesis-sample/pdf/VFC42DWL-MANUAL.pdf>



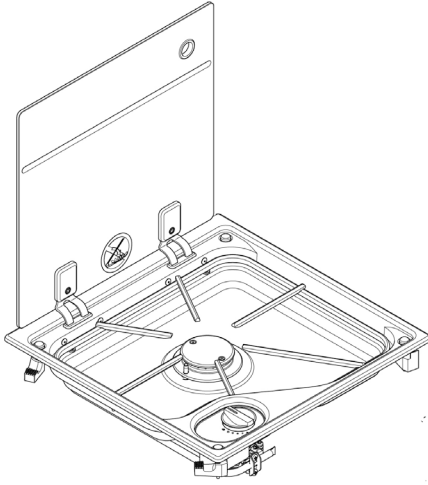
If you are unable to view the documents online, please contact the supplier, your dealer or Swift for an electronic or paper copy.

Isolation switches for Fridge and water tank heaters.

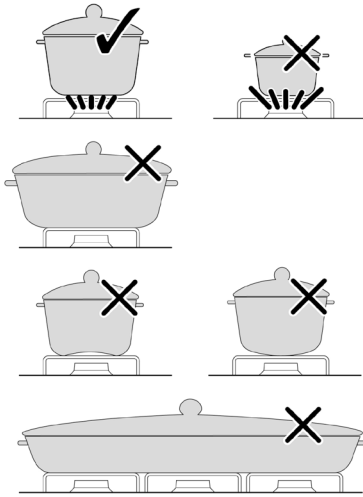
Please be aware that separate isolation switches have been placed in the small Right hand cupboard below the kitchen top,



9.3 Dometic Hob and Bowl



WARNING



1

CVH1350(G)	CVC1525G	
CVH1525(L)(G)	CVC1700(G)	
CVH1700(G)	CVC1875G	

b

1.

2.

3.

4.

5.

6.

7.

8.

A →

B 3 s →

C 12 V →

▲ max. 10 s

c

1.

2.

3.

e

1.

2.

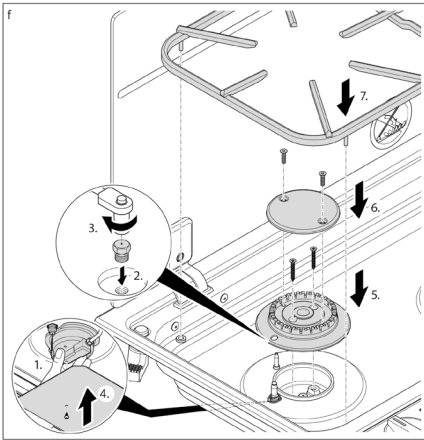
3.

4.

5.

6.

7.



General safety

⚠ WARNING: Failure to obey these warnings could result in death or serious injury.

Explosion hazard

- This device may only be repaired by qualified personnel. Inadequate repairs may cause serious hazards.
- This device must be installed in accordance with any national regulations in force in the country of use.
- This device must only be used in a well ventilated space.
- Read the instructions before installing or using this device.
- Do not modify the device.
- Do not remove or replace any components of this device.
- The gas hose has to be changed if required by the national regulations.

Fire hazard

- Do not leave this device unattended when hot or in use.
- Children must be supervised to ensure that they do not play with the device.
- Keep a suitable fire extinguisher ready.
- Ensure that the fire extinguisher is checked by skilled personnel in regular intervals.

Burn hazard

- Keep hands, face and hair away from burners.
- Do not wear loose clothing or allow long hair to hang freely while lighting or using this device.

- Keep children and pets safely away.
- Carefully monitor all activity around this device to avoid burns or other injuries.

⚠ CAUTION: Failure to obey these cautions could result in minor or moderate injury.

Injury hazard

- If the device has a glass lid, in case of glass lid breakage:
 - Shut off immediately all burners and any electrical heating element and isolate the device from the power supply.
 - Do not touch the device surface.
 - Do not use the device.

⚠ WARNING: Damage hazard

- If the device has a glass lid:
 - Close the glass lid before beginning a journey.
 - Turn off all the burners before closing the glass lid.

Safety precautions when handling liquid gas

⚠ WARNING: Failure to obey these warnings could result in death or serious injury.

Explosion hazard

- After use always disconnect the liquid gas cylinder. Store liquid gas cylinders away from heating or cooking devices and other light or heat sources in a well-ventilated area out of the reach of children.
- Never store liquid gas cylinders in unventilated areas or below ground level (funnel-shaped holes in the ground).
- Never store liquid gas cylinders in buildings such as garages.
- Any indoor storage must comply with national regulations.
- Do not store liquid gas cylinders on their side.
- Keep liquid gas cylinders away from direct sunlight. The temperature should not exceed 50 °C.

Operating the device safely


⚠ WARNING: Failure to obey these instructions will cause death or serious injury.

Hazard of carbon monoxide poisoning

- The process of burning liquid gas produces carbon monoxide which accumulates inside enclosed areas. Only use this device with sufficient ventilation.

Suffocation hazard

- Operating this device in an unventilated area will reduce the amount of oxygen in this area.
- Do not use the device as a space heater.
- The use of a gas cooking appliance results in the production of heat, moisture and products of combustion in the room in which it is installed.
 - Ensure that the kitchen is well ventilated especially when the device is in use.
 - Keep natural ventilation holes open or install a mechanical ventilation device (e.g, a mechanical extractor hood).
- Prolonged intensive use of the device may call for additional ventilation, for example opening of a window, or more effective ventilation, for example increasing the level of mechanical ventilation where present.

 **WARNING:** Failure to obey these warnings could result in death or serious injury.

Explosion hazard

- Do not use this device if it is leaking, damaged or does not operate properly.
- Never use the device in the following situations:
 - At petrol stations
 - On ferry boats
 - While transporting the caravan or mobile home with a transport vehicle or tow truck
- In case of fire shut off the gas supply.
- Do not place chemicals, flammable materials or spray aerosols near this device.
- Never use a naked flame to check for gas leaks.
- If you smell gas:
 - Do not attempt to light this device.
 - Extinguish any naked flames.
 - Turn off the gas supply.
 - Disconnect the device from the gas supply.
 - Have the gas system checked by a specialist.
- Only attach or detach the gas container outdoors away from a naked flame, pilot light or other source of ignition and only when this

device is cool to touch.


- Before using the gas container, check that the seal between this device and the gas container is in place and in good condition.
- If the seal is damaged or worn, do not use this device.
- Turn off the gas supply at the gas container after use.

Fire Hazard

- This device must be kept away from flammable materials during use.
- Do not place any objects other than cookware on or against this device.
- Never place this device near flammable materials (paper, dry leaves, textiles).
- Keep flammable objects away from the burner.
- Position cookware handles as follows:
 - Never allow cookware handles to extend beyond the edge of the device.
 - Turn cookware handles inward, but not extending over other burners.
- Do not excessively heat grease or oil.
- Only use dry pot holders to handle hot cookware.
- Turn off the device before removing the cookware.
- Only operate this device when an adult can attend to it.

Burn hazard

- Accessible parts may be very hot. Keep young children away.

 **CAUTION:** Failure to obey these cautions could result in minor or moderate injury.

Burn hazard

- Use protective gloves when handling hot components.
- Leave this device to cool down properly before you touch it with bare hands.
- If you ignite a burner manually:
 - Use long matches or a suitable lighter.
 - Remove your hand quickly as soon as the burner ignites.
- The use of alcohol or prescription or non-prescription drugs may impair your ability to properly assemble or safely operate this device.

Using the device

CAUTION: Burn hazard

- Do not touch the hot parts of the device during and after use. Leave the device to cool down properly.
- Do not close the lid before the device has cooled down properly.
- For CVC devices only:
 - If the device has glass lids and you leave the glass lid of the sink closed while cooking, keep a minimum distance of 10 mm between the cookware and the glass lid of the sink.
 - Do not use the sink during cooking. Let the device cool down properly before using the sink.
 - Remove any plastic accessories from the sink before cooking.

CAUTION: Do not shut the lid when a burner is alight.

Switching on




⚠ WARNING: Hazard of carbon monoxide poisoning

- Before switching on the device, ensure that the area is sufficiently ventilated.
- During use, there must be opened air vents with a cross-section of at least 150 cm² in the installation room.
- These vents can be closed when the device is not in use.

⚠ WARNING: Explosion hazard/Fire hazard

Only use gas of the allowed gas category (see chapter "Technical data" on page 28). Do not use any other fuels.

1. Choose suitable cookware for the selected burners according to the following table:

Burner (fig. a , page 10)	Cookware diameter	
S	10 – 16 cm	
M	10 – 18 cm	
L	16 – 22 cm	

2. Switch the cooktop on as shown (fig.b)
Depending on the model, the burners are ignited differently:

- Manual ignition: (fig.b)
- Piezo ignition: (fig.b)
- Electrical ignition: (fig.b)

Switching off

- Switch the cooktop off as shown (fig.c).

Replacing the gas container

⚠ WARNING: Explosion hazard

- Only replace the gas container in places with good ventilation.
- Ensure that there is no source of ignition nearby.
- Only change the gas container when the device is not in use and the gas supply to the device is switched off.

1. Switch the device off by turning the knob to the zero setting.
2. Close the valve on the gas container.
3. Replace the gas cylinder according to the instructions from the gas fitting manufacturer.

Cleaning and maintenance

CAUTION: Burn hazard

Leave the device to cool down properly before cleaning, checking or maintaining the device.

Cleaning the device

1. Remove the pan support (fig.c).
2. Clean the device with a soft, damp cloth (fig.c)

Find additional care instructions for stainless steel and glass surfaces online on



<https://documents.dometic.com/>

Annual safety check

The assembly and installation of the gas connection must be performed by a qualified person who has demonstrated skill and knowledge related to the construction, installation and operation of gas appliances and has received safety training to identify and avoid the hazards involved.

- For safety reasons, have the device checked by a qualified person every year for proper function. Any defects must be repaired.

Replacing the nozzles

The assembly and installation of the gas connection must be performed by a qualified person who has demonstrated skill and knowledge related to the construction, installation and operation of gas appliances and has received safety training to identify and avoid the hazards involved.

- Let a qualified person replace the nozzles as shown (fig.e - fig.f)). 9.4 Gas Cylinders/ Bottles

⚠ WARNING: Never operate the appliance with gas and/or at gas pressures different to those indicated by Dometic as this could cause irregular and incorrect operation. Dometic declines all responsibility for damage or injury caused by an incorrect or improper use of the appliance.

The appliance runs off standard gas bottles which can be found in the country of use. The type of gas to use is clearly marked on the packaging and on the specifications label affixed to the rear of the appliance. However always respect the following instructions: gas bottles must always be located and positioned in the compartment provided for this purpose. They must always be vertical and fitted with a valve and pressure regulator. Do not obstruct or impede access to the gas bottle to permit quick and easy access when replacing.

⚠ WARNING: When replacing the gas bottle always take the following precautions:

- close all gas knobs;
- make sure there are no flames or fires in proximity of the gas bottle;
- close the gas valve on the bottle to be replaced;
- unscrew the pressure regulator on the empty bottle and remove the bottle from the purpose compartment. This procedure is inverted for fitting a new bottle. Check for gas leaks utilising a non-corrosive fluid. Do not use a water and soap solution.

NEVER USE A FLAME TO CHECK FOR GAS LEAKS;

- ignite the burners to check they function correctly. If there are problems call in an authorised gas service engineer.

After appliance use always turn off the gas tap on the bottle

⚠ GAS LEAKS:

We recommend the use of an electronic and homologated gas detector for checking ambient air.

If there is a smell of gas;

- immediately open the windows and evacuate the campervan.
- do not turn on or off light switches or other electronic appliances, do not light matches or lighters or anything that could cause the gas to ignite;
- put out any flames
- shut off the valve on the gas bottle or cylinder. Do not re-open this valve unless the gas leak has been identified and eliminated.
- contact an authorised gas service engineer. Cleaning

⚠ WARNING: Before cleaning the appliance always turn it off and disconnect from power supply and wait until it has cooled down.

⚠ CAUTION: Surfaces that are still hot can be damaged if they come into contact with cold water or a damp cloth. Never use abrasive, corrosive or chlorine based cleaning products. Never use steel or plastic scouring pads. Never leave deposits of acid or alkaline substances (vinegar, salt, lemon juice etc.) on the appliance. Stainless steel or enamelled surfaces must be cleaned only with water and soap or a neutral detergent, thoroughly rinse and dry. Use clean sponges or cloths to clean.

Injectors

⚠ WARNING: Cleaning or replacing gas injectors must only be performed by authorised and qualified gas service engineers.

Burner	Injector (mm)	Stanped N.
Auxiliary 47mm	0.50	50
Semi-Rapid	0.67	67
Rapid	0.75	75

9.4 Dometic mini grill

Use the appliance only in a well ventilated space.

The ventilation openings must remain open when the appliances are operating.

Ignition of the appliance

1. Manual ignition: oven - grill

- f. Push in control knob, slightly turn to ignition position, light burner with match or lighter and keep knob pushed for 5 - 10 sec.
- g. Release knob and turn it to required position.

2. Automatic ignition: oven - grill

- a. For igniting oven or grill, open oven door completely
- b. Push In control knob, slightly turn to ignition position keeping it pushed in for 5 - 10sec.
- c. Release knob and turn it to designed position.

Note: Oven and grill burners will not light, if door is not completely open.

3. Ignition of appliances with thermostat

Proceed according to paragraphs 1 and 2, with or without electronic ignition. The ignition position is obtained by turning control knob on a position between 1 and 6 for the oven and grill position (see symbol ▼▼▼▼)



For ovens with thermostat the different positions of the knob correspond to the following temperatures in °C of the oven.

POS	1	2	3	4	5	6
TEMP	130	160	180	200	220	240

⚠ WARNING: If ignition is unsuccessful, repeat operation from beginning; if necessary have the appliance checked if a gas and/or electricity failure in the appliance. If appliance absolutely does not work, close gas inlet tap and contact retailer. Before using oven for the first time, let it run at maximum temperature for the duration of 20 mins without foodstuffs inside:

⚠ WARNING: Use gloves when handling hot elements!

In the event of the burner flames being accidentally extinguished, turn off the burner control and do not attempt re-ignite the burner for at least 1 min.

Operation of the grill

- a. Pull out heat protection plate
- b. Light grill burner.
- c. Keep oven door half-open
- d. Do not use for more then 20 minutes.

Use of the rotisserie

Insert dripping-pan with the rotisserie installed as indicated in (fig 5a). Push in the appropriate button (fig 4a) in order to set going the rotisserie motor.

Use of the Grill

- a. Slide out heat protection plate.
- b. Light grill burner
- c. Keep oven door in half-open position.

Use with Oven:

- a. Light oven burner
- b. Position control knob on desired temperature
- c. Close oven door.

9.5 Dometic 972 Toilet

Your campervan is fitted with a self contained Dometic 972 toilet, featuring a 8 litre flush tank, 9 litre waste tank, and push button flush. Further details can be found at the following location:



<https://www.dometic.com/en-gb/outdoor/uk/products/hygiene-and-sanitation/sanitation/motorhome-toilets/dometic-972-25288#documentation>

9.6 Swivel seats



To turn the swivel, slide the BLACK lever forwards and adjust to the required angle. Before driving off ensure the locking mechanism is fully secure.

9.7 Care of laminate tops, tables, furniture and doors

DO NOT use abrasives, chemically treated cloths or aggressive detergents as these may cause damage.

DO NOT place hot objects on laminated surfaces i.e. tops, tables. Any temperatures 70°C and over will cause permanent damage.

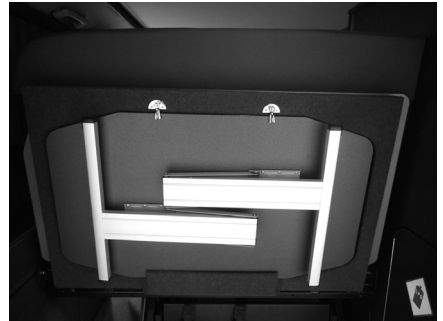
Clean worktop surfaces, furniture and door fascias with a soft, slightly damp cloth, dry off with a soft cloth.

9.8 Furniture doors

During normal travelling, vehicle vibration and flexing may cause some of the furniture doors to become out of alignment. For your convenience many hinges are adjustable.

9.9 Table storage

Forward Dining tables should be left in the fixed position on the back of the rear seat when in transit.



To avoid damage, care must be taken when removing tables from their stored positions.

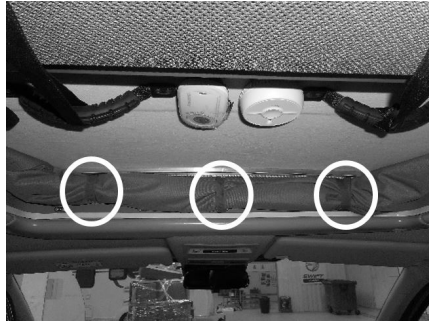
9.10 Opening the Elevating Roof

Note: Please make sure to open at least one door or window so that air can escape when opening the roof.

WARNING: It is essential that the elevated roof be raised when the campervan is used for habitation purposes.



- Open the x5 stud fasteners of the access cover across the front of the hatch opening and pull the flap down.

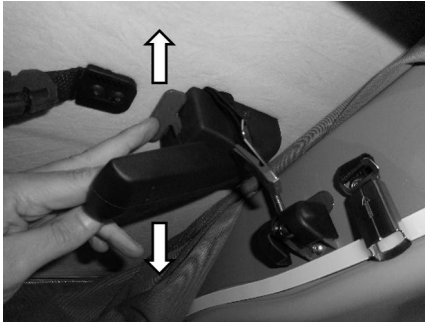


- Open the Velcro fasteners holding the tent fabric (3 fasteners)

Note: Risk of damage to the tent fabric if the fasteners are not opened!



- Open the Click-Lock catches of the roof on both driver's and passenger's side
- Release the locking of the roof according to the following steps:

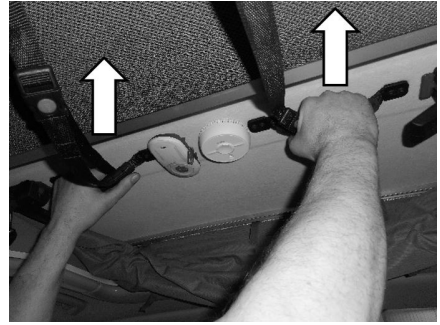


- On the locking mechanism push the red lever up and pull the main handle down to unlock the catch.



- Unhook the locking bar out of the side retaining bracket to release the catch (if it is tight pull down on the roof handle to help release)

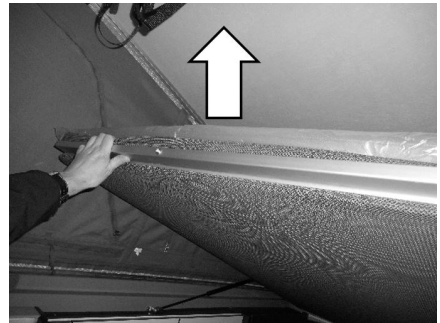
These steps must always be executed at the driver's side as well as the passenger's side.



- The elevating roof can then be pushed upwards by means of the two handles on the roof. This should be done evenly from both sides to avoid twisting the roof and causing damage to the hinges.



- The access panel cover can be stored away under the mattress of the upper bed when not in use



- Push the upper bed up to the elevating roof

Note: The upper bed must be folded up in order to provide for comfortable headroom in the vehicle



- To access the upper bunk use the folding bunk ladder supplied with the vehicle. The ladder hooks on to the brackets on the front section of the roof hatch.
- Fall-Out protection is provided when using the upper bunk. The net is stored under the mattress and is secured to the handles on the roof using the adjustable straps on the upper rail.

WARNING: Always ensure the upper bed is located in the down position before entering the bunk

WARNING: Use upper bunks for sleeping only, with the provided protection against fall out in position.

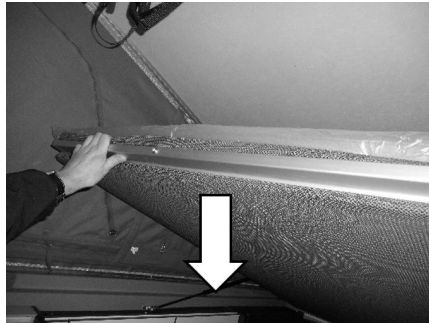
WARNING: Care shall be taken against the risk of fall out when the bunk is being used by children, especially under 6 years of age. These bunks are not suitable for use by infants without supervision.

Closing the Elevating Roof

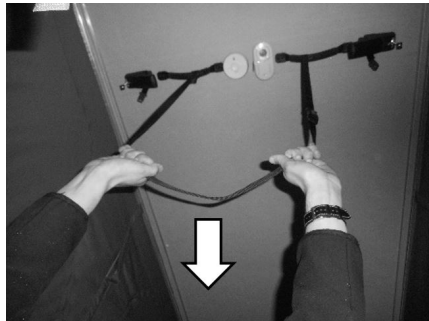
Note: Please make sure to open at least one door or window so that air can escape when closing the roof.

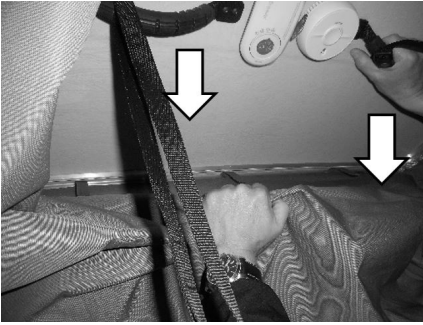


- Ensure all the panels on the tent are zipped closed and the fall out protection is stored away under the mattress.



- Pull the upper bed down and remove the access hatch cover from under the mattress if stored away.

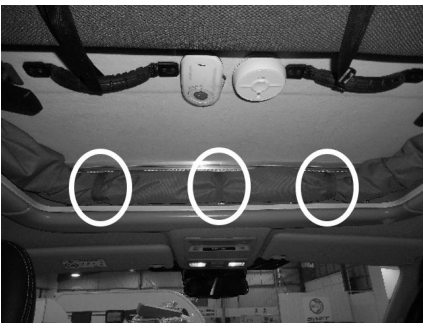




- Pull the roof down carefully using the central strap or the roof handles at each side together, ensuring the tent fabric will not be jammed in this process.

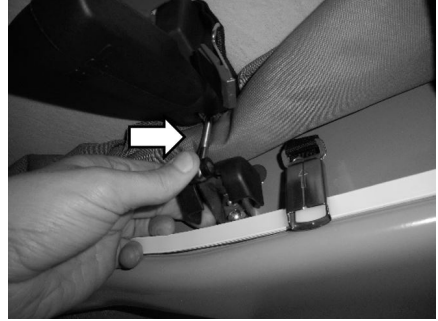
Note: Make sure that the tent fabric will not be jammed in this process.

Note: The roof should be pulled down evenly and not twisted as this may cause damaged to the hinges.



- Fold up the remaining tent fabric thoroughly in the front area and fix using the three Velcro fasteners.

- After that, the roof should be locked according to the following steps:



- Fold the tent fabric up thoroughly in the area of the locking mechanism. Hook the locking bar in to the side retaining bracket to secure the catch (if it is tight pull down on the roof handle to help)



- On the locking mechanism push the main handle up to lock the catch and secure the roof.

These steps must always be executed at the driver's side as well as the passenger's side.

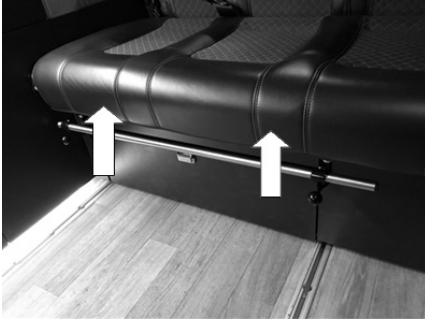
Note: Make sure that the tent fabric is not jammed in this process.

- Close the Click-Lock of the roof (driver's side as well as passenger's side) to ensure the locking mechanism cannot pull free.
- Close the access hatch cover and fasten using the x5 stud fasteners across the front of the hatch opening. Any parts that are projecting from the opening can be accommodated in the cavity between the elevating roof and the access cover.

9.11 Rock and roll rear bed

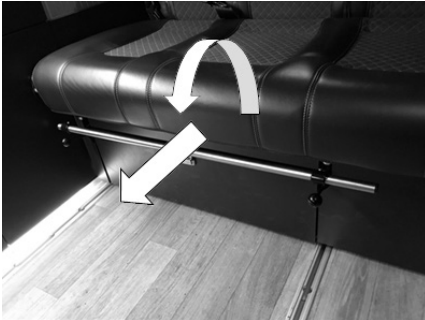
Setting up the Folding rear seat into a bed

Before folding the bed out, slide the bench seat into the correct position which is just rear of the C-pillar (rear of the sliding door) Lift the front bar handle and pull or push in the direction required. Let go of the handle and the seat will click into the lockable traveling position.



Folding the bench seat

Standing facing the seat. Pull the seat base up and forward.



Rotate the front seat base forward revealing the release handle to the right hand side inside the frame.

The Back rest then folds forward. To lower the back rest release the handle on the right and the back rest can be gently lowered down.

Kneeling on the folded seat lower the rear of the bed with the loose mattress.

When returning the bed into the traveling seats ensure the seat belt sockets are lifted high before the seat base is folded into position.

9.12 Reverse Camera System

Your campervan is equipped with a Ford fitted reverse camera system which is powered when the vehicle engine is running. With the engine running and reverse gear selected the dashboard screen will automatically display the image from the camera.

For further details please refer to the Ford handbook.

Use of cameras

The rear view camera image may be distracting or disorientating to some drivers and as such extra care and awareness must be observed at all times when using the camera. When reversing a responsible adult should assist in guiding the driver into confined spaces particularly where obstacles or pedestrians may be present or when visibility or lighting levels are reduced.

The mandatory required rear view door mirrors must be maintained and used as the primary rear visibility aid.

The image quality available from the cameras can be affected by dirt, road spray, rain droplets, snow and ice and as such the camera lens will require regular inspection and cleaning. Image quality will be reduced at night-time or by bright lights shone in low level lighting conditions.

10. Campervan Care

10.1 Winterisation	102
10.2 General care	104
10.3 Condensation	104
10.4 Changing Exterior Bulbs	105
10.5 Interior	106
10.6 Care instructions for the roof and tent	106
10.7 Vehicle care - exterior	107
10.8 Changing interior light fittings	107
10.9 Caring for the environment	107

10.1 Winterisation

The Swift Group recommends the following winterisation points for customers:

Servicing

- Arrange (in advance) the yearly service and habitation check, if the campervan's next service is due while the vehicle is stored.

Plumbing

- Water expands as it is frozen, and so trapped water, when it expands, can damage the tap/ valve /pump or pipe it is trapped within. For this reason, (in addition to reasons of hygiene), the water system should be fully drained when not in use, particularly in colder weather.
- Open both the fresh tank and water waste tank drain valves, which are located on the tanks below the skirt of the campervan. Ensure that waste water drains into a designated waste water collection area, either directly or by collecting the water in a container for later disposal.
- Fully open the kitchen tap. Run the pump (using the switch on the control panel) for a short time to expel as much water as possible from the pipework, if an external shower is fitted also connect this briefly to help expel any water trapped in the shower point connection.
- Have a cloth or towel ready, locate the pump in the lower cupboard of the kitchen area and place the cloth/towel around it. Using the quick release connections on the input and output sides of the pump, release the pipes from the pump – a small amount of water may escape from the pipe running up to the kitchen tap. Again run the pump briefly, to expel the final small amounts of water from the pump.

Electrical

If vehicle is being stored while connected to 230v mains hook-up:

- Ensure that 40A Primary and Auxiliary fuses are intact and in place (passenger seat base)
- Ensure the Shutdown button on the MC100 fusebox is IN/ON
- Vehicles can be left in this condition for extended periods, with the charger operating to maintain both of the batteries. However, periodic maintenance and inspection is recommended.

If vehicle is being stored without connection to 230v mains hook up:

- Place the campervan on mains hook up for at least 24 hours before storage, to ensure batteries are fully charged.
- Ensure the Shutdown button on the MC100 fusebox is in the OUT/OFF position.
- Check the Ford handbook for the latest advice on battery maintenance during periods of inactivity, and follow those steps. Take into account that the fitted solar panel will assist with maintaining the state of charge in both batteries, though this is dependent on the amount of energy that can be harvested by the solar panel and may not be sufficient, especially over longer periods. Periodic maintenance and inspection is recommended.

Gas system

- Ensure the gas supply is isolated at the gas bottle, and ensure that the gas manifold taps are off.
- Check the age and condition of the high pressure gas hose and regulator, and replace if required.

Appliances

- Check the battery expiry date on the smoke alarm and CO detector and replace or remove as required.
- Ensure the fridge is turned off.
- Clean the inside of the fridge.
- Prop the fridge door open, and if possible, the internal freezer compartment door for ventilation.
- Ensure all hob / grill surfaces are clean.
- Clean the toilet and empty the cassette. See the Dometic toilet users manual for the most up to date advice.

Exterior (Body / Chassis)

- Ensure that all windows, skylights and access doors are closed and secured.
- Ensure all fixed ventilation points (high and low) are clear from debris and obstructions.
- Ensure the vehicle is not parked where falling debris (i.e. leaves, tree sap) could cause damage.
- Avoid leaving the vehicle parked in soft ground, long grass or a potential area where standing water may form.

Wheels and Tyres

- Do not store in one position with partially deflated tyres. The tyre walls will suffer and do present a real danger of blow outs, especially when travelling at faster speeds than are allowed in the UK. The wheels should be turned every couple of weeks. If you are removing the wheels, follow the jacking procedure for changing a wheel. Check your tyres regularly for signs of age and deterioration, particularly wear, cracking and blistering. If in doubt consult a reputable tyre fitter.
- A purpose made cover maybe used, but please ensure the cover is a good fit, breathable and securely fitted.

⚠ CAUTION: A poorly fitted cover can rub and damage the bodywork. Non-breathable covers will encourage mould to grow.

Interior (Furniture / furnishings)

- Open all lockers and internal doors, to ensure good circulation.
- Remove cushions and store them in a dry location or ensure all cushions are placed in a well ventilated area.
- Close all blinds and curtains. Customers are reminded to check the tension on blinds after storage if left closed for long periods.
- Thoroughly ventilate the campervan by opening doors or windows periodically.
- Placing water absorbent crystals in the van during the winter months, will help reduce moisture levels and mould growth.
- We do not recommend leaving portable heaters in the van unattended.

Recomissioning the Water System

It is advisable, after a period of non-use, to flush the water system with a sterilising fluid such as Milton 2. Fill the fresh water tank with water and sterilising fluid (Refer to sterilising fluid instructions for the amount to use).

Check that the quick release plumbing connections are re-made on the pump, turn the pump on and open all the taps, ensuring that the water drains away safely to the waste tank.

When the waste tank is full empty the fluid into a designated waste water area. Re-fill the tank with fresh water and flush through the system as described above; repeat this until all traces of the sterilising fluid have been flushed out.

Prepare the toilet system by following the steps laid out in the Dometic toilet instructions.

Appliances

Before starting using the campervan after storage, check all gas appliances and electrical points.

🕒 Note: Preferably not less than once a year, the electrical installation should be inspected and tested by a qualified electrician.

After storage it is advisable to air the Campervan and clean throughout, especially cooking appliances and the refrigerator.

Replace the bedding if they were removed for storage.

⚠ CAUTION: Always follow the manufacturers recommended procedures after use of fitted equipment in the Campervan, before storing for any length of time.

10.2 General care

For care of the vehicle battery please refer to the Ford handbook in section 'Trouble Shooting'.

All moving parts should be checked for free operation.

Clean all cooking appliances and refrigerator. Lubrication should be carried out at the points illustrated in the general notes on chassis maintenance.

Charge up the on-board battery every 2 months.

Leave the refrigerator door open. Leave furniture doors and lockers open to allow air to circulate fully.

Modifications - DIY work

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

⚠ CAUTION: WD40 is not recommended for external or internal use

WD40 attacks paintwork and sealants

If a lubricant is required for Interior hinges, Sliding door tracks, Bottle box hinges, Exterior door hinges, Plastic tracking etc. We recommend "Ambersil 40+" this is readily available from most DIY/Automotive retailers including Halford's.

Before carrying out any DIY work within the warranty period, please check with your nearest dealer or contact Supercare customer services on 01482 875740 for advice.

Paintwork

Proper care involves washing the campervan regularly with a mild detergent rinsing with cold water and leathering off. A good quality, similar coloured car wax may also be applied which will make washing even easier.

⚠ CAUTION: Do not use abrasive-cleaning agents, on the exterior of your campervan. Stubborn stains may be removed using a soft cloth and mild detergent.

⚠ CAUTION: Overzealous use of detergents may loosen the decals and / or badges.

Cleaning Windows

Wash down as you would your car. Do not use a sponge on dirty windows. When all the dirt has been removed, dry with a leather or similar type of cloth. The catches and stays do not require lubricating.

Removing Tar

Use a proprietary tar remover on your double glazed windows; (available from most leading car accessory or do-it-yourself shops). Do not use petrol or other chemicals.

⚠ CAUTION: The use of a pressure washer on the exterior of your campervan is not recommended as this may damage decals fitted to the vehicle.

10.3 Condensation

What is condensation

Condensation is the process of change of water from its gaseous form (water vapour) into liquid water when it comes into contact with a surface that is cold. Condensation generally occurs when warm air cools quickly and loses its capacity to hold water vapour, and as a result water vapour condenses to form droplets.

Why condensation occurs

Condensation occurs when warm moist air meets a cold surface. The level of condensation will depend upon humidity levels, how moist the air is and how cold the surfaces are they come into contact with.

If the temperature falls below the dew point temperature, it is quite normal for condensation to occur on any material within the campervan that is cold, for example the external walls, plastic windows etc.

When condensation occurs

Condensation occurs usually in winter months, because ambient temperatures are colder (leading to cold surfaces) and windows and roof vents are opened less so the moist air cannot escape.

Where condensation occurs

Condensation will occur where warm moist air is put into the atmosphere in areas such as in bathrooms (during showering) and in kitchen areas (during cooking).

In the enclosed space of a campervan, the moist air from the kitchen will inevitably transfer to the rest of the vehicle, which in turn condenses on cold surfaces leading to visible water droplets.

This issue is compounded by warm moist air being generated from normal breathing. Condensation will also form in cold areas where air movement and ventilation is restricted (e.g. cupboards, wardrobes, under beds, etc.)

What is important

It is important to provide ventilation and air flow, so that warm moist air can escape, or be externally cooled, and to use the heating reasonably by not making the campervan too warm such that people perspire, as this will only serve to generate more moist air and therefore more condensation.

However, in particularly cold periods, where the external ambient temperatures are low, condensation may still form on external walls as the insulation levels may well not be thermally able to cope with the difference between the internal and external temperatures.

How can you prevent condensation

Provide ventilation so that moist air can escape.

- a. Good ventilation of the vehicle when cooking or when drying clothes, footwear or pets is essential. Observe when windows begin to show signs of misting and increase ventilation by opening a window slightly by 1 cm or opening a roof vent, as these will help, but keep the habitation door closed as much as possible to retain heat.
- b. If drying damp clothes or towels, open a window to ventilate the area and allow the moist air to escape.
- c. Try to make sure that the campervan is partially heated. It can take a long time for a cold campervan to warm up, so it is better to have a small amount of heat for a long period than a lot of heat for a short time.
- d. Fixed ventilation is provided in the vehicle, specifically through high level vents within the skylights and low level vents through the floor, it is important not to block these.
- e. Electrical heating is dryer than gas heating, and introduces less moisture into the atmosphere. Do not use additional portable paraffin or flue-less gas heaters at all.
- f. If left unoccupied and unheated for long periods of time the temperatures can soak down thermally into the entire product and become very cold. Whenever possible, put the heating on at a low level before use by pre heating in cold weather.

- g. Even with reasonable ventilation it is likely if the temperature is less than 5oC and the humidity is high that condensation will occur. Ideally the temperature should be kept about 20oC when occupied.

Mould Growth

Any sign of mould growth is an indication of the presence of moisture and if caused by condensation gives warning that heating or ventilation may require improving.

New vehicles

New products take a long time before they are fully 'dried out' because of the moisture in the materials used during manufacture. While this is happening extra heat and ventilation will be required.

10.4 Changing Exterior Bulbs

ALWAYS REPLACE LIKE FOR LIKE

For individual replacement bulb specification, refer to your base vehicle Handbook.

<https://www.ford.co.uk/support/owner-manuals?ref=%2F>



Rear Road Light Clusters

Bulb access is from the rear of the cluster. Please see the Ford handbook for specific details of the clusters and individual lights contained within them.

10.5 Interior

Follow these guidelines to ensure your investment is receiving the very best attention.

Floor

A simple wipe over with a damp cloth and a very mild detergent is all that is needed.

Soft Furnishings

Should be vacuumed occasionally to remove grit and sand and help to keep its smart appearance and ensure long life. The upholstery can be cleaned with a mild, reputable upholstery cleaner. It is recommended that the curtains and pelmets are specialist cleaned only. The foam used in cushions are manufactured to meet fire regulations. It requires time to return to its normal position after prolonged use.

Clean and dust the upholstery and if possible remove before placing the Campervan into winter storage. Alternatively, stand the cushions on their edges to allow circulation of air. This will reduce the possibility of dampness from condensation. Keep curtains or blinds closed, to minimise fading of furniture.

Leather care

- Leather furniture, if fitted in your vehicle, requires little maintenance. Regular care of leather does ensure its lasting quality and some general rules for regular cleaning and maintenance are:
- Clean the leather with a soft damp cloth taking care not to soak the leather
- For a more thorough clean, use the Bridge of Weir Leather cleaning and protection kit available directly from the distribution centre
- Do not use saddle soap, wax polishes or spray polishes
- Do not use any product or any method of cleaning not recommended by the manufacturer
- Avoid letting buckles, studs and zips come into any direct contact with the furniture
- Avoid drying out the leather by taking extra care where there is heating or blown air outlets

Work Surfaces

You should not stand very hot items on any of the work surfaces.

Cupboard Catches

It is advisable to lightly oil all cupboard catches, sliding bolts and hinges from time to time.

Furniture

A simple wipe over with a damp cloth should be all that is required. Polishing with a proprietary brand of wax polish enhances and maintains furniture in showroom condition.

It must be remembered that because the frames of some doors are made of ash, which is a natural product, they can be affected by temperature and humidity and may bow under certain conditions. As conditions change they should revert to their original positions.

Kitchen Drainer and Cutting Board

You should not stand hot items on to these items. To wash use only warm soapy water, do not use chemicals and bleach.

10.6 Care instructions for the roof and tent

Interior Paneling

The interior paneling can be cleaned with warm water and a little neutral detergent or soap, - DO NOT use cleaning agents containing alcohol or benzene for cleaning paneling inside the vehicle. The plastic paneling could be discoloured and become brittle.

For pop-top roof version

In order to prevent the formation of condensate and mould stains the pop-top roof must be vented regularly. It should only be closed when it is completely dry.

If you cannot avoid closing the roof while it is still wet you should erect it as soon as possible after that until the canvas has completely dried.

If you do not use the pop-top roof for an extended period of time, e.g. during winter, remove the bed cushions or raise the roof once in a while.

Joints, hinges and locking mechanism, of the pop-top roof should be oiled very lightly or sprayed with a non-greasing lubricant in regular intervals. Wipe off any excess lubricant immediately to avoid stains on the bed.

Due to the nature of the materials used and the manufacturing process for the tent assembly there may be some light transmission around the stitching details on the tent seams.

This is principally due to the tolerances associated with both the stitching needle and yarns used in manufacture, which causes some of the stitched seam holes to appear larger than others. The light transmission should reduce slightly after repeated use, as the yarn swells and dust and dirt particles settle in the seam holes. Unless the seam holes allow water to enter the vehicle then the visual aspects of light transmission are within the tolerances which can be achieved.

10.7 Vehicle care - exterior

Diesel Space heater

The housing of the underfloor heater is treated with surface protection at the factory. However, since it cannot be excluded that the protective layer is damaged when driving you should inspect the housing at regular intervals and have it repaired, if necessary.

The housing can be retouched with common corrosion inhibitors used for the vehicle's underbody.

Switch on the space heating for about 10 minutes once a month outside the heating system.

Canvas

(only for the pop-top roof) Clean the canvas with a damp piece of microfiber cloth.

It must not be cleaned with detergent.

Detergents would wash out the impregnation of the cotton material and would render the canvas permeable.

Decorative strips and lettering

The decorative strips and lettering on the outside of the vehicle must not be cleaned with high-pressure cleaners as they could detach or damage these decorations.

10.8 Changing interior light fittings

The light fittings in your campervan are LED, with no user serviceable parts. In the unlikely event of failure of one of these lamps, the entire lamp will need to be replaced - several types of LED lights are intended for semi-permanent installations using self adhesive mounts etc., and dealer assistance may be required should damage or other need for replacement occur.

10.9 Caring for the environment

After many years of service you may decide that your campervan has become beyond economic repair and should be disposed of. Please ensure that you comply with the end of life vehicle legislation and take it to an authorised treatment facility where it will be properly dealt with to minimise any negative environmental impact. The transaction will be logged at the DVLA, identifying that you are no longer the owner of the vehicle.

11. Technical information

11.1 Specification	110
11.2 Water Tank Capacities	112
11.3 LPG Tank Capacity	112
11.4 Campervan Towing Capabilities	113
11.5 Jacking Points	113
11.6 Consumer circuits floor with heater	114
11.7 Power circuits	115
11.8 Consumer circuits roof	116
11.9 230V circuits	117
11.10 Cable colour chart	118

11.1 Specification

Model	Monza S
Roof Profile	Campervan
Engine Power	150 PS MANUAL
Engine Capacity	2.0L
Chassis	Ford Tourneo Custom
Wheel base	3.10m / 10' 2"
Designated Passenger Seats excluding Driver	4
Berths (sleeping positions)	4
Overall Length (no ladder)	5.05m / 16' 7"
Overall Width	2.04m / 6' 8"
Overall Width (mirrors folded)	2.15m / 7' 1"
Overall Width (mirrors extended)	2.28m / 7' 6"
Overall Height (Pop up roof down)	2.07m / 6' 9"
Maximum Technical Permissible Laden Mass (A)	3115kg
Mass in Running Order (B)	2669kg
Maximum User Payload (A-B)	446kg
Unladen Weight	2541kg
Essential Habitation Equipment	0kg
Bed Sizes	
Rock & Roll Bed	1.98m x 1.11m / 6'6" x 3'8"
Roof Bed	1.95m x 1.18m / 6'5" x 3'10"

Notes:

1. The Maximum User Payload includes:
 Conventional load (this is the allowance for passengers)
 Essential habitation equipment (items and fluids required for safe and proper functioning of habitation equipment)
 Optional equipment (items available from the manufacturer over and above the standard specification)
 Personal effects (those items not covered by the above)

2. The Mass in Running Order is the mass of the unladen vehicle including a 75kg allowance for the driver plus engine coolants, 90% of the fuel tank and 11kg allowance for LPG.
 3. The Mass in Running Order is calculated with the fresh water tank empty. If you travel with water in the fresh water tank then the payload will reduce accordingly.

Monza S
Campervan
170 PS AUTO
2.0L
Ford Tourneo Custom
3.10m / 10' 2"
4
4
5.05m / 16' 7"
2.04m / 6' 8"
2.15m / 7' 1"
2.28m / 7' 6"
2.07m / 6' 9"
3175kg
2722kg
453kg
2594kg
0kg
1.98m x 1.11m / 6' 6" x 3' 8"
1.95m x 1.18m / 6' 5" x 3' 10"

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

4. **⚠ WARNING:** - UNDER NO CIRCUMSTANCES SHOULD THE MAXIMUM TECHNICAL PERMISSIBLE LADEN MASS OF THIS CAMPERVAN BE EXCEEDED.

Notes for options:

The payload that can be carried will reduce by the mass of the options selected.

11.2 Water Tank Capacities

Fresh Water Tank	Waste Water Tank
40 litre	29 litre

11.3 LPG Tank Capacity

Capacity
1 x 6kg

Note: For technical data on the base vehicle please refer to the manufacturer's handbook.

11.4 Campervan Towing Capabilities

Model	MTPLM	Permissible Front Axle Load	Permissible Rear Axle Load	Recommended Maximum Trailer Weight	Gross Train Weight
MONZAS Manual Gear Box	3115kg	1650kg	1675kg	2500kg	5615kg
MONZAS Auto Gear Box	3175kg	1650kg	1700kg	2500kg	5675kg

Please note that the additional weight of the tow bar and trailer nose weight increases the rear axle loading of the motor home so care should be taken that the rear axle load is not exceeded when towing.

To ensure adequate road holding, the load on the front axle, under all conditions, must not be less than 40% or more than 70% of the total weight.

Care must be taken when distributing loads. The loadings and weights above are maximums and must not be exceeded under any circumstances.

⚠ CAUTION: When fitting a towbar, it must meet certain minimum requirements as specified by Type Approval Regulations. The bar will have marked on it the approval standard (94/20/EC or 55R ECE) and the maximum download, or noseweight, that it can accept. It must fit the manufacturer's approved mounting points and must not obscure the towing vehicle's number plate.

To ensure adequate road holding, the load on the front axle, under all conditions must be not less than 40% or more than 70% of the total weight.

Care must be taken when distributing loads. The loadings above are maximum loadings and must not be exceeded under any circumstances.

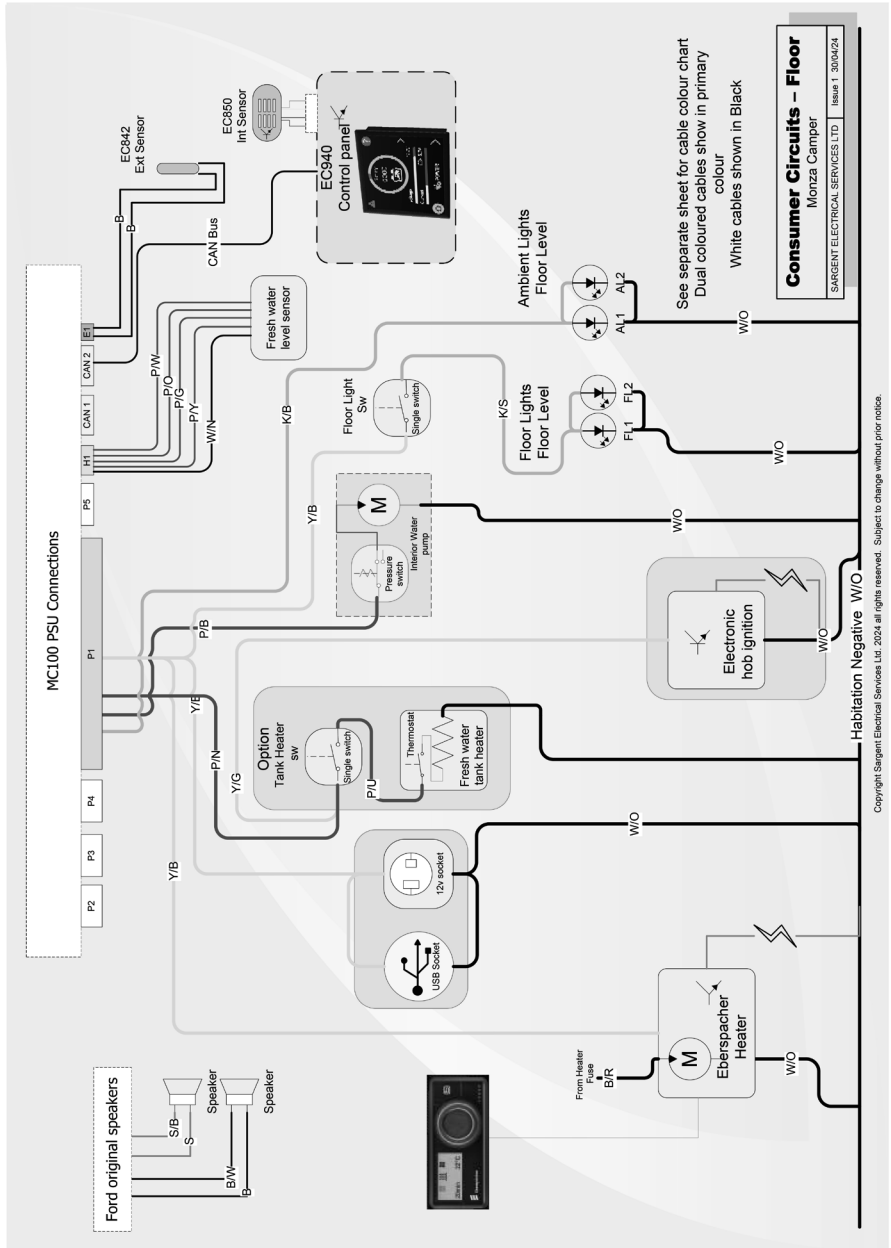
11.5 Jacking Points

For Jacking points refer to Ford handbook.

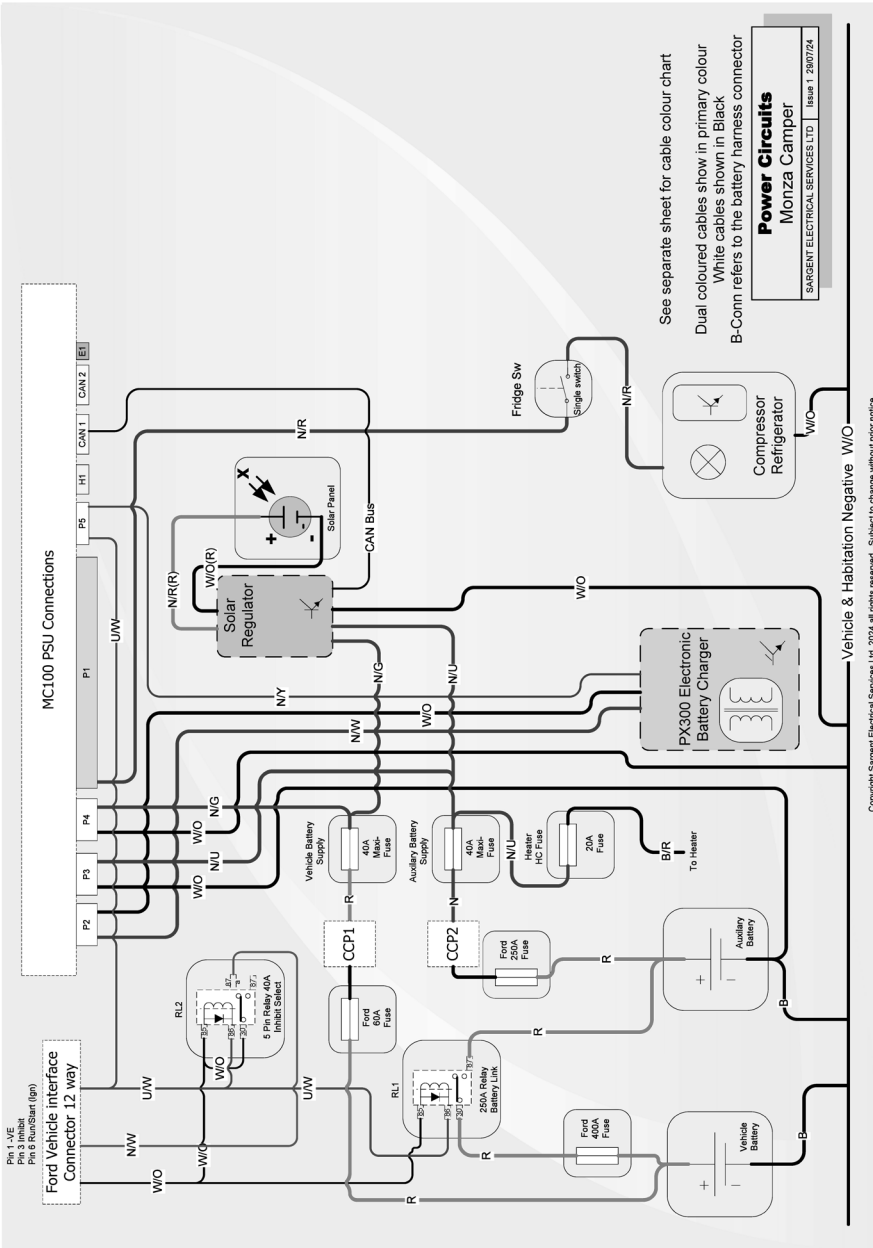
<https://www.ford.co.uk/support/owner-manuals?ref=%2F>



11.6 Consumer circuits floor with heater



11.7 Power circuits

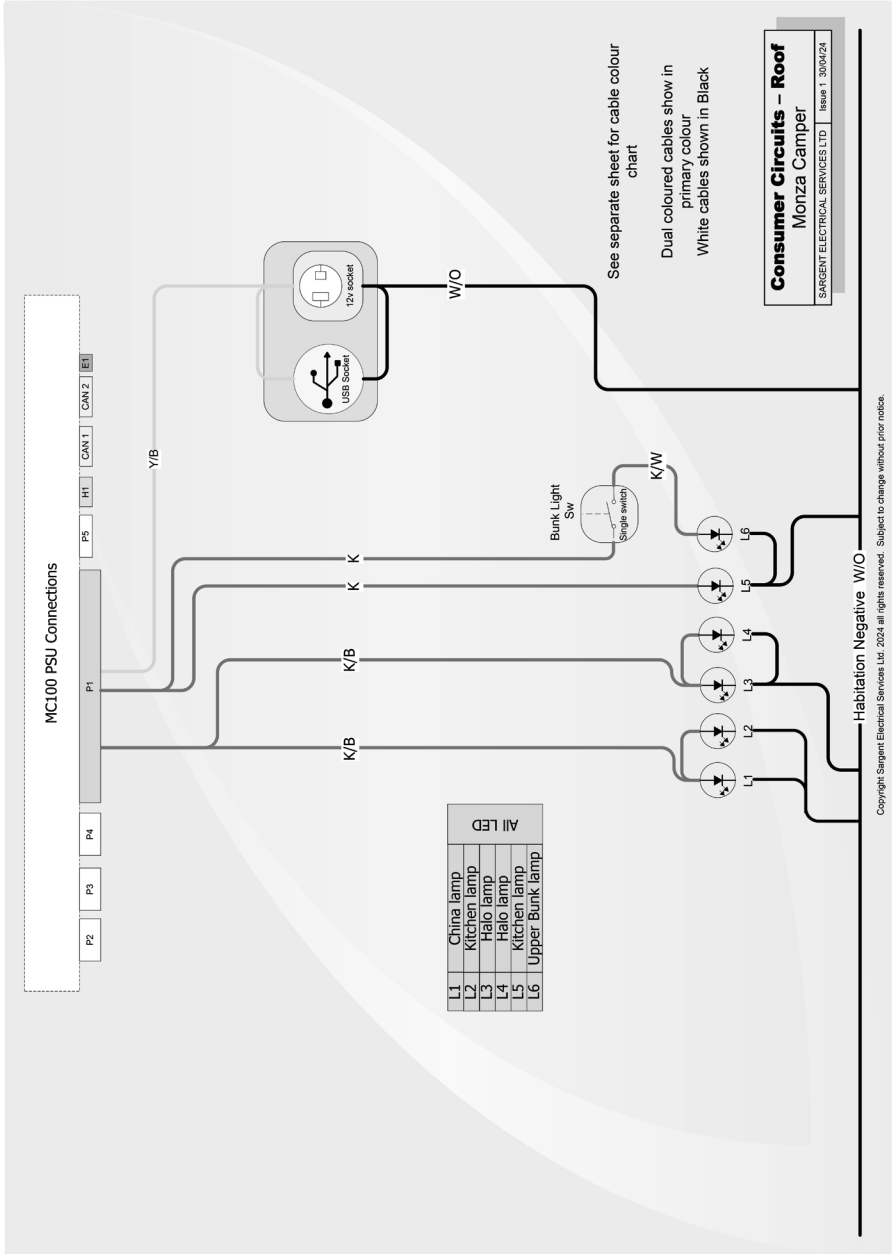


See separate sheet for cable colour chart
 Dual coloured cables show in primary colour
 White cables shown in Black
 B-Conn refers to the battery harness connector

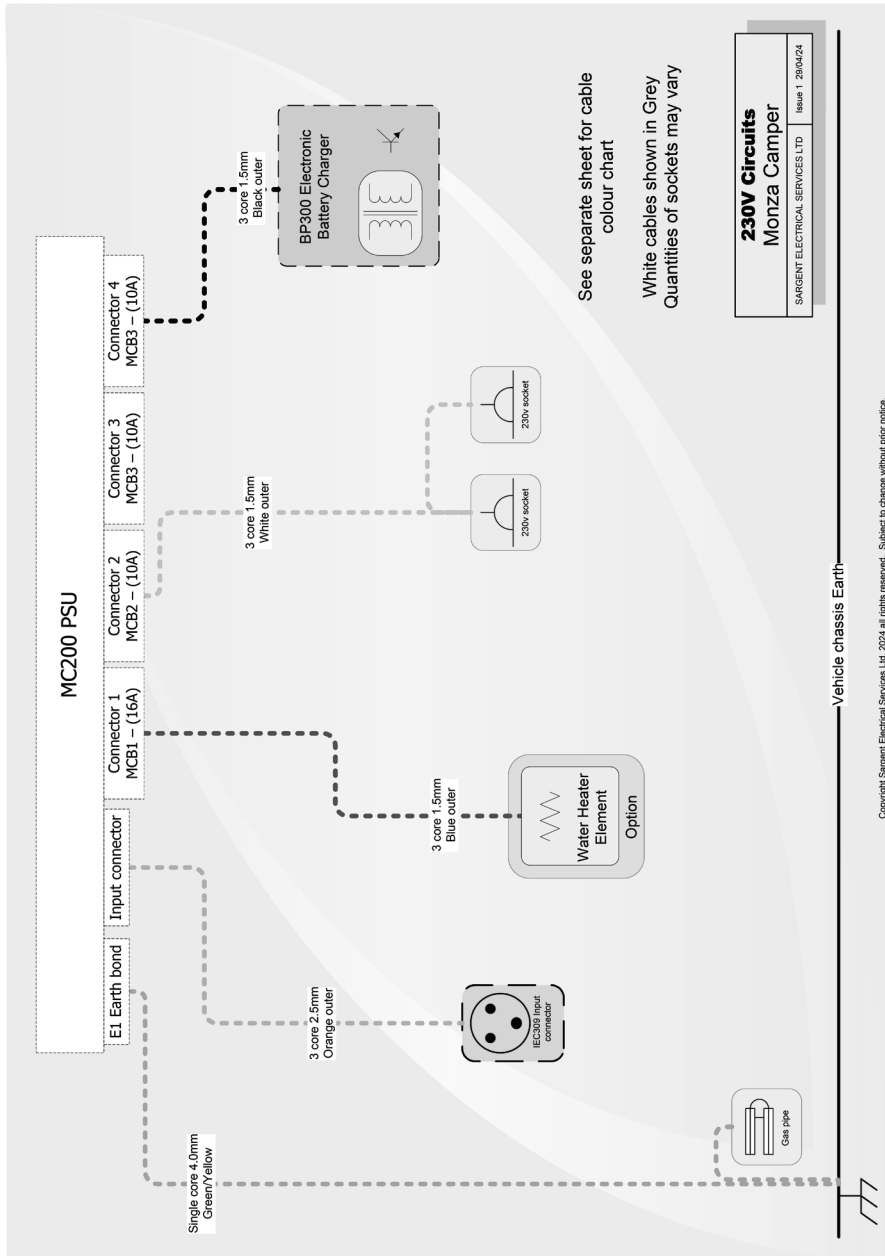
Power Circuits
 Monza Camper
 SARCENT ELECTRICAL SERVICES LTD | Issue 1, 29/07/24

Copyright Sargent Electrical Services Ltd, 2024 all rights reserved. Subject to change without prior notice.

11.8 Consumer circuits roof



11.9 230V circuits



See separate sheet for cable colour chart

White cables shown in Grey
Quantities of sockets may vary

230V Circuits	
Monza Camper	
SARGENT ELECTRICAL SERVICES LTD	Issue 1 28/04/24

Copyright Sargent Electrical Services Ltd. 2024 all rights reserved. Subject to change without prior notice.

11.10 Cable colour chart

Cable Colour Chart
 Swift Group
 SARGENT ELECTRICAL SERVICES LTD Issue 1 29/04/24

Example

Y/U Yellow cable with Blue stripe

12V Cable Colours

B	BLACK
N	BROWN
R	RED
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE
P	PURPLE
S	SLATE GREY
W	WHITE
K	PINK

230V Cable Colours

B	BLACK
N	BROWN
W	WHITE
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE

12. Useful information

12.1 Owners club	120
12.2 Spares and after sales customer service	120
12.3 Repair facilities	120
12.4 Caravan Clubs	121
12.5 Motoring Associations	121
12.6 Trade Association	121
12.7 Index	122
12.8 Change of ownership	126

12.1 Owners club

The Owners Club is a completely independent organisation run for the benefit of the campervan owners. They have numerous rallies during the year in various parts of the country. Apart from the friendliness and companionship the Club generates it is also actively engaged in charity work for those less fortunate than ourselves. The address of the Secretary of the Owners Club can be obtained from the Swift Group website.

12.2 Spares and after sales customer service

A catalogue of spare parts are available through our Swift Group Dealer Network, from door catches through to sinks. Please note, all parts enquiries must be directed through any Swift approved dealership, as the Swift Group does not operate a direct retail service.

We endeavour to supply parts for vehicles up to 8 years old. If the original part is no longer available your dealer should be able to source a suitable alternative.

Note: Customers/dealers use the MH number to raise enquires. Please remember to quote chassis VIN (Vehicle Identification Number) when ordering any items from your dealer. This can be found at the bottom of the front windscreen or on the Ford and Swift plates on the left hand side front door pillar.

12.3 Repair facilities

Should you be unfortunate to encounter damage to your vehicle, we have a number of approved workshops and dealerships with workshop facilities to undertake such repairs.

Details of which can be found via our website: www.swiftgroup.co.uk/find-a-dealer

The enjoyment of motorhoming can be greatly enhanced by membership of one or more of the various campervan/caravanning, motoring and holiday clubs. Here are some useful addresses:

12.4 Caravan Clubs

The Caravan Club,

East Grinstead House, East Grinstead
West Sussex, RH19 IUA
Tel: 01342 326944
www.caravanclub.co.uk

The Camping and Caravanning Club,

Greenfields House,
Westwood Way,
Coventry,
West Midlands.
Tel: 0845 130 7631 or 024 7647 5448
www.campingandcaravanningclub.co.uk

12.5 Motoring Associations

Automobile Association (AA)

Fanum House,
Basingstoke,
Hants. RG1 2EA
Tel: 08705 448866
www.theaa.co.uk
e-mail: customer.services@theaa.com

RAC Motoring Services

RAC Motoring Services
8 Surrey St
Norwich Norfolk NR1 3NG
Tel: 01922 437000
www.rac.co.uk

The Society of Motor Manufacturers and Traders Limited (SMMT)

Forbes House,
Halkin Street,
London SW1X 7DS
Tel: 020 7235 7000
www.smmt.co.uk
Green Flag
Tel: 0845 246 1557
www.greenflag.com

RBS Insurance

Churchill Court
Westmoreland Road
Bromley
Kent BR1 1DP
Tel: 0800 158 2493

12.6 Trade Association

NCC

Catherine House,
Victoria Road,
Aldershot,
Hampshire, GU11 1SS
Tel: 01252 318251
www.thencc.org.uk
www.campervaninfo.co.uk e-mail: info@thencc.org.uk

12.7 Index

230V circuits	117
230V mains electrical equipment power consumption	57

A

Advice on towing	24
Airbag	23
Annual service / inspection record	10
Arrival at site	39
Arrivals	14
Automatic ignition: oven - grill	93
Awnings and Tents	14, 40

B

Base Vehicle Warranty	6
Battery power	82
Before moving off	18
Bench Seat	23
Butane	52

C

Cable colour chart	118
Campervan battery	62
Campervan Care	101
Campervan code	13
Campervan Conversion Body Shell Warranty	6
Campervan Conversion Warranty	6
Campervan terms	18
Campervan Towing Capabilities	113
Camp Site Code of Conduct	14
Canvas	107
Caravan Clubs	121
Care instructions for the roof and tent	106
Care of laminate tops, tables, furniture and doors	94
Caring for the environment	107
Change of Ownership	8
Changing a gas cylinder	52
Changing interior light fittings	107
Children	37
Child seats	21
Cleaning water system	43

Cleaning Windows	104
CO alarm	37
Coastal code	16
Connecting cable wiring	58
Connecting services	41
Consumer circuits floor with heater	114
Consumer circuits roof	116
Conventional Load	18
Country code	16
Cruise control	34
Cupboard Catches	106
Cylinder compartment	51

D

Decorative strips and lettering	107
Dedicated travelling passenger seating	20
Departure	15
Diesel Space heater	107
Dogs and other Pets	14
Dometic 972 Toilet	94
Dometic Hob and Bowl	88
Driving	15
Driving licence	24

E

Electrical Systems	61
En-route	27
Environment	16
Escape paths	36
Essential Habitation	19
European Touring	25
External BBQ point	54

F

Factory fitted Solar Energy System	82
Fire Extinguisher	36
Fire Precautions	14
Fitted equipment	83
Floor	106
Ford Tyre Inflation Kit	30
Fresh water system	45
Furniture	106
Furniture doors	94

G			
Gas	51	Mould Growth	105
Gas Cylinders/Bottles	92	N	
Gas fault finding	55	Noise	14
Gas Hoses	51	Nose weight on towed trailers	19
Gas safety advice	52	O	
Gas Schematic	50	Opening the sleeping roof	95
General care	104	Operation of the grill	93
Getting to know EasyStart Pro	84	Optional Equipment	19
Gross Train Weight	19	Overseas connection	56
H		Owners club	120
Handbooks (Chassis & Converter)	15	P	
Height-based seats	22	Paintwork	104
I		Parking	15
Ignition of appliances with thermostat	93	Parking sensors	34
In case of fire	36	Personal Effects	18
Interior	106	Positioning the campervan	40
Interior Paneling	106	Power circuits	115
ISOFIX CHILD RESTRAINT POSITION INFORMATION	22	Preparing for the road	17
ISOFIX Child Seat Restraint	21	Priming the Water System	43
J		Propane	52
Jacking Points	113	R	
K		Rear Road Light Clusters	105
Kitchen Drainer and Cutting Board	106	Recomissioning the Water System	103
L		Refrigerator	87
Large storage areas	20	Regulator operation	82
Leather care	106	Removing Tar	104
Levelling the campervan	40	Repair facilities	120
Loading of vehicle	19	Rock and roll rear bed	99
LPG Tank Capacity	112	S	
M		Safety and security	35
Manual ignition: oven - grill	93	Security	38
Mass in Running Order	18	Selecting a pitch	40
Maximum Technically Permissible Laden Mass	19	Smoke Alarm Operation	36
Maximum User Payload	18	Soft Furnishings	106
Modifications - DIY work	104	Spares and after sales customer service	120
Motoring Associations	121	Specification	110
		SuperSure Warranty	6
		Supplier contacts	9
		Swift Connect Direct	8

Swivel seats	94
T	
Table storage	94
Tank heaters	46
Technical information	109
The electrical system	56
The External Shower Point	43
Thermal insulation heating	55
Three point seat belts	23
Types of gas	52
Typical appliance consumption	59
Tyres	20
U	
Useful information	119
Use of cameras	100
Use of Site Appliances	14
V	
Vehicle care - exterior	107
Vehicle Movement	14
Ventilation	37
VIN (Vehicle identification Number)	38
W	
Warranty	5
Waste Disposal	14
Water fault finding	48
Water system	42
Water system schematic	42
Water Tank Capacities	112
WD40 attacks paintwork and sealants ...	104
Weight-based seats	22
Wild camping	15
Winterisation	102
Work Surfaces	106



All Swift Group models have been certified by the NCC for compliance with stringent European Standards, British Legislation and industry SET Codes of Practice specifically relating to health and safety issues.

The approval process covers the testing and inspection of critical areas of the product from fire safety, weights and dimensions, to gas, electrics and ventilation. Every campervan carries the "NCC Approved Campervan" badge.

The NCC also conduct unannounced inspections at the Swift factory to ensure continued compliance. NCC Approval gives you peace of mind that your campervan is legal and safe.

All Swift Group campervans are UK and European Whole Vehicle Type Approved.

This is your assurance that these campervans meet all European regulations, and have been constructed and conform to approved safety, environmental and manufacturing control standards.

12.8 Change of ownership

Notification of change of ownership

As the new second hand owner, please notify the Swift Group of the change of ownership by completing the following page and sending it to:

Customer Services

Swift Group Limited,

Dunswell Road,

Cottingham,

East Yorkshire HU16 4JX.

Note: Warranties are only transferable providing the terms and conditions of the warranty have been met by the previous owner(s). Please see warranty information at the beginning of this handbook for full details. The 'Extended Body shell warranty' is a non-transferable warranty

Details of campervan:	Model:	
	Chassis No:	
New owner:	Name:	
	Address:	
	Email:	
	Telephone:	
	Mobile:	
	Date of purchase:	
Previous Name: owner:	Name:	
	Address:	
	Email:	
	Telephone:	
	Mobile:	
	Date of purchase:	



SWIFT

SWIFT GROUP

Dunswell Road

Cottingham

East Yorkshire

HU16 4JX

Tel: 01482 875740

Fax: 01482 840082

Customer Experience Team

enquiries@swiftleisure.co.uk

FIND OUT MORE AT **SWIFTGROUP.CO.UK**