

EXPEDITION



ZONE^{RV}

OWNERS MANUAL



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COUPLINGS

CRUISEMASTER D035

COUPLING:

1. The caravan should only be coupled on level ground.
2. Make sure towing pin and universal is free of sand, dirt and foreign objects, and is lightly lubricated.
3. Raise height of trailer coupling above vehicle towing pin by adjusting the RV jack.
4. Push and hold lock button down, push the locking plate back to fully open position until the lock button springs back.
5. Align coupling over towing pin by moving either vehicle or trailer, and lower.
6. Ensure that the hitch is seated properly on the pin.
7. Push the lock button to release the plate into the locked position.
8. Assemble the dust cover by snapping in the back edge of the seal first and then pushing on the front.
9. Dust cover will emit an audible snap when assembled correctly.
10. Release handbrake.

UN-COUPLING:

1. Trailer should only be uncoupled on level ground.
2. If uneven surface, leave the chains on until finished unhitching the caravan.
3. Engage handbrake and chock wheels if required.
4. Remove dust cover, tow plug, camera lead, brake-safe lanyard and safety chains.
5. Push and hold lock button down, push the lock plate to fully open position until the lock button springs back.
6. Lower jack leg to raise the height of trailer above vehicle towing pin.

HANDBRAKE ADJUSTMENT:

The cable should be adjusted in such a way that when the handbrake is disengaged there is some slack in the cable to ensure the brakes will not be dragging during normal operation. It is recommended to adjust this so that at the highest engaged position of the handbrake, the attachment lever is vertical. A further check should be made with the suspension at both ends of its travel to ensure the brakes do not operate in the bump and rebound conditions.

Refer to the Cruisemaster website for additional information.



**CRUISE
MASTER™**

**CRUISEMASTER™
D035 U3^{PLUS}**
3.5 TONNE ALL-TERRAIN COUPLING






TRAILER PLUG CONFIGURATION


7 PIN FLAT PLUG

PIN No.	CIRCUIT	CABLE	COLOUR
1	Left-hand turn	ECA3 1.13	Yellow
2	Reversing signal		Black
3	Earth return	ECA5 3.25	White
4	Right-hand turn	ECA3 1.13	Green
5	Service brakes	ECA5 3.25	Blue
6	Stop lamps	ECA3 1.13	Red
7	Rear lamps, clearance & side marker lamps	ECA3 1.13	Brown

Cable Entry View



7 Pin Socket



7 Pin Plug

50A GREY ANDERSON PLUG FITTED FOR CARAVAN CHARGING

Location: Front of drawbar

The GREY Anderson plug is for connection to the car. This is run directly to the DC/ DC charger that stops the power from the caravan battery being sent back to the car battery. It is critical that you do not plug anything other than a vehicle alternator into this Anderson plug. It's also recommended to cable tie this to your trailer plug to provide support should it become disconnected from the car, preventing it dragging on the ground.

GAS SYSTEM

Your ZONE RV is fitted with provision for storage of one 4.5kg gas cylinder that is intended for use with appliances that have their own regulator. There is no provision for direct connection to the caravan via bayonet or similar fittings. LPG is a volatile fuel system and by composition is extremely explosive. Great care needs to be taken when using gas fuelled appliances.

POWER SYSTEMS

ELECTRICAL CERTIFICATE

All ZONE RV caravans are supplied with a non-prescribed Electrical Certificate. Installation and testing of 240V cabling and components is completed by a qualified Electrician. Any modification to the installed system will void the certification and 240V warranty.



12V POWER SYSTEM

Run from the battery and controlled/monitored by the REDVISION display. This system will run your Sirocco fans, entertainment, roof fans, airbag controls, water pumps and fridge along with the 12V outlets. The REDVISION display will tell you the Amps in or Amps out depending on incoming and outgoing loads. This varies depending on charge conditions i.e. solar input and the load on the batteries e.g. amount of 12V appliances you're running. To check your charge, turn all 12V appliances off (including fridge) and read the gauge. You can expect in normal operation for your fridge compressor to be running 80% of the time so the general rule is that it will use 100A per 24 hour period.

Lithium batteries have their own fail safe and therefore CAN be drained until the low voltage cut out initiates, but this is not recommended.

Note: For a 200Ah lithium battery to reconnect after the low voltage cut out has engaged (this will show 0 volts on readouts) a charge voltage of $\geq 12.8V$ must be applied to the battery BEFORE the low voltage cut out will de-activate and allow charge current to flow into the battery.

BATTERY STORAGE

Batteries are stored in a sealed, purpose built box under the chassis of the caravan to comply with the requirements of AS3001.2. If the battery box needs to be removed for any reason, first disconnect the cables from the positive and negative terminals of the box and ensure that they are appropriately insulated and protected to ensure that they don't contact anything or each other during removal.

CAUTION: All electrical work on the 240V system may only be carried out by a licensed electrician.

CAUTION: The mass of the battery box including 4 batteries is approximately 125kgs. Removal of the battery box for maintenance should only be carried out in a clean environment with appropriate lifting tools.

CAUTION: The battery box must only be opened by a licenced auto electrician or electrician familiar with 12V power systems.



POWER SYSTEMS

SOLAR PANELS

The solar panels are fixed to the roof of your Zone RV caravan. To ensure they are operating at maximum efficiency it is recommended that they are inspected and cleaned on a regular basis. Do not stand or place objects on the solar panels under any circumstance.

CAUTION - Ensure that appropriate safety equipment is used when cleaning the solar panels to prevent fall from height injuries. There are no anchor points on the caravan roof that are suitable for fall arrest/ restraint purposes.

50A RED ANDERSON PLUG FITTED FOR PORTABLE SOLAR PANELS

Location: Rear, drivers side of the caravan.

A RED Anderson plug is fitted for connection of portable solar panels. This Anderson plug is connected to the solar input of the DC/DC charger. Your portable panel must have the regulator removed or bypassed for the solar panel to work with the onboard DC/DC charger. Ensure that your portable solar panel has a RED Anderson plug installed.

INVERTER

The battery system supplies the inverter with 12V to convert it to 240V therefore using 240V appliances whilst not connected to mains power will drain your battery.

240V POWER SYSTEM

The 240V system is only available if you have 240V power plugged in from an external source or the 3000W inverter. External power may be from a caravan park or from your generator. This will automatically provide power to all 240V outlets in your van, 240V power point behind the fridge (for AC charger) A/C, washing machine and fridge.

IMPORTANT INFORMATION - GENERATORS

If supplying 240V to your ZONE RV with a generator, you may need to load shed if you are intending on using multiple appliances. If using a low-capacity generator, you may need to isolate the supply to the 240V point for the battery charger if you want to run your A/C.

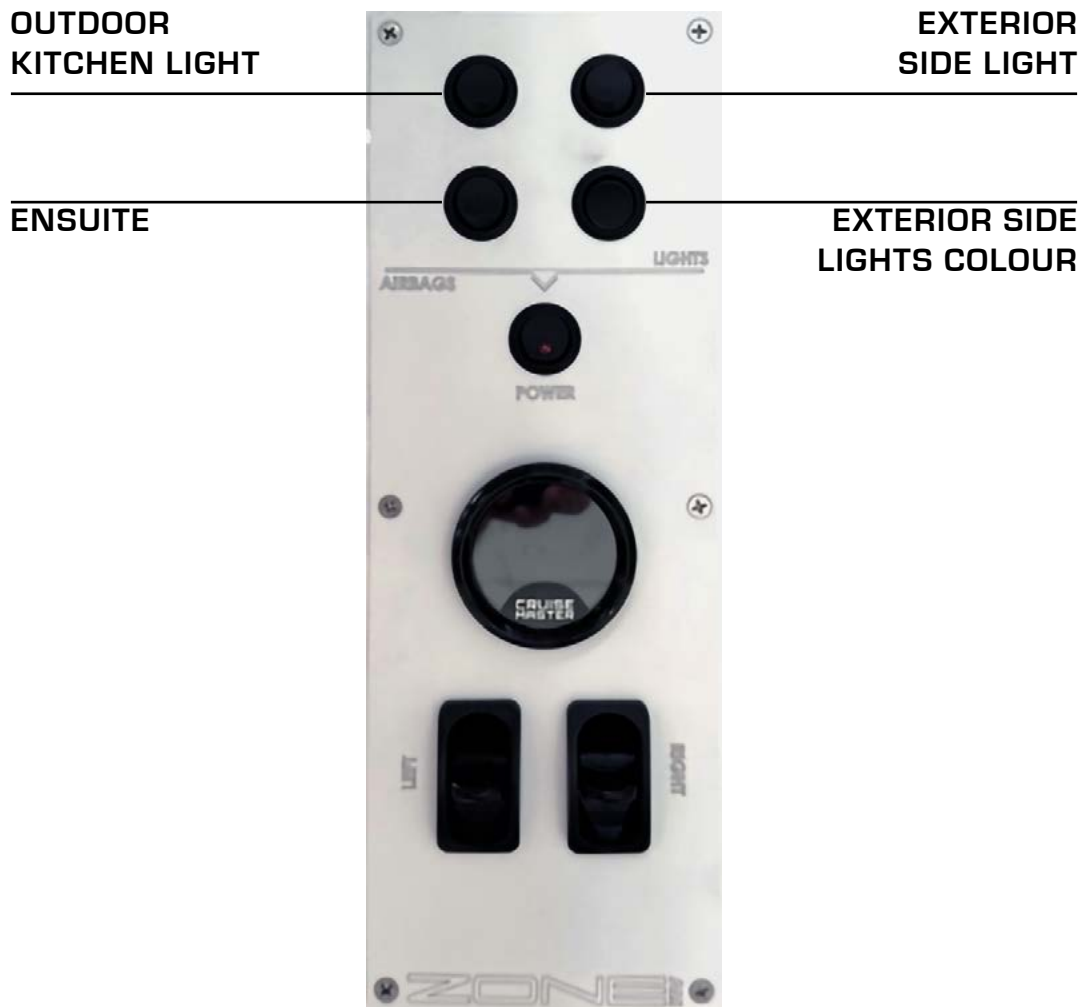
CAUTION: All work on the 12V and 240V electrical systems must only be carried out by suitably trained and certified persons. Failure to do so may result in injury or death or voiding of Zone RVs warranty.

LIGHTING CONTROL



The top portion of the switch plate inside the entry door is used to control lighting for the exterior, outdoor kitchen and the ensuite. The outdoor kitchen light switch on the top left and the ensuite light switch on the bottom left are momentary switches that allow for on/off control and dimming of the lights via the REDARC TVMS Rogue unit. The switches on the right for the exterior side light are on/off only.

The colour of the lighting in the outdoor kitchen is modified by a switch on the inside left wall of the outdoor kitchen when the hatch is open.



All other interior lights are controlled via the REDVISION Display.



REDARC DIGITAL MANAGEMENT SYSTEM

REDARC REDVISION DISPLAY

Location: Outer surface of kitchen cabinet inside the entry door.

Red Vision brings information and control right to your fingertips to switch features like your lights, fridge, TV, inverter and more on or off using the wall display or handy app on your phone. It even gives you information on water levels, temperatures, and when paired with a Manager30 Battery Management System, you also get instant feedback on your auxiliary battery and electrical system.



Please refer to REDARC user manual for more information about using or customising your REDVISION display.

Please find the user manual supplied at handover.

If you are having any issues with you REDVISION display, please contact a Redarc support technicians on the details below.

P: (+61) 1300 733 272

REDARC REDVISION DISPLAY MOBILE APP



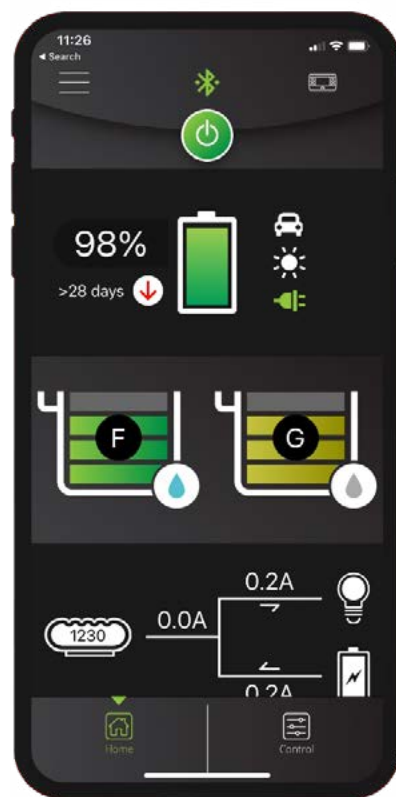
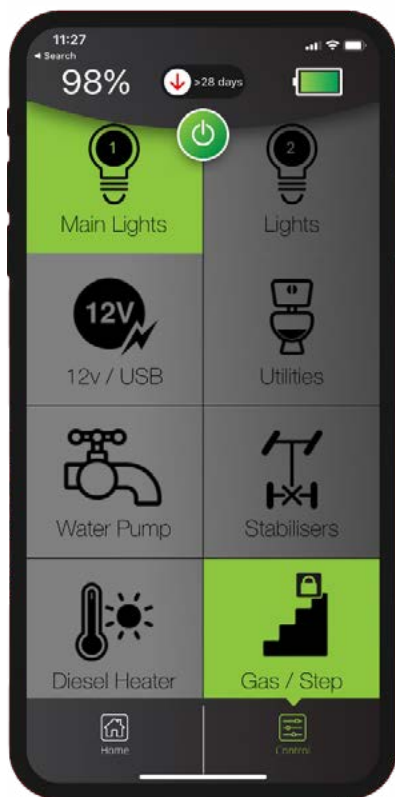
You can control your Red vision display and manager system from your mobile device. Using the RedVision app on your smartphone, when paired correctly with a distribution box, you can:

- Turn devices on or off such as lights, inverter, water pump and any other load demands like TV, electric steps, fridges and more.
- Monitor water tanks, temperature settings, energy consumption (battery power) and storage
- Automate functions in your ZONE RV. For example, hit one button and turn everything off except the fridge leaving it running.

Other Key Features

- Communicates via Bluetooth with smart phones
- REDARC quality and aftersales support
- Australian designed and manufactured

You can download the Redarc Red vision app from the Apple store or Google Play.

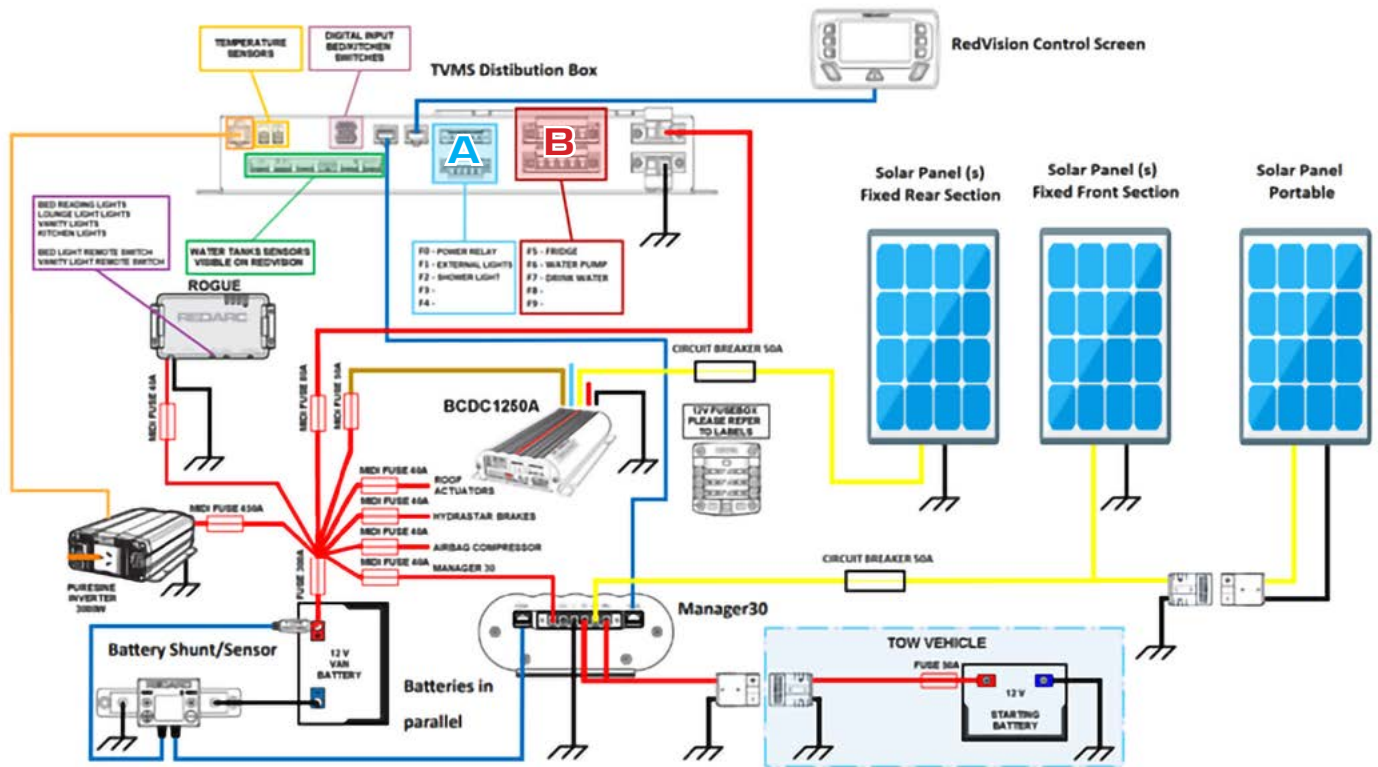




REDARC DIGITAL MANAGEMENT SYSTEM

12V LINE DIAGRAM

Location: Inside of the REDARC service panel – Drivers side



A-10A Max Circuit Fuses

1. FansPower Relay
2. AirbagsExternal Lights
3. Vanity LEDShower Light
4. Cabinetry LED
5. Front Light

B-30A Max Circuit Fuses

1. Fridge
2. Water Pump
3. Roof Lights
4. Hatch Fans
5. Drinking. Water

C-10A Max Circuit Fuses

1. Bed Reading Lights
2. Lounge Lights
3. Vanity Lights
4. Kitchen Lights
5. Bed Light Remote Switch
Vanity Light Remote Switch



REDARC 3000W INVERTER

Location: Under the lounge closest to the fridge.



Please find the user Manual supplied at handover.

When connected to an External 240V supply, the inverter will automatically changeover to utilise that supply and switch back to inverter/battery power when disconnected.

Please refer to the "240 VAC LINE DIAGRAM" for reference.



CHARGER

REDARC 50A BC DC BATTERY CHARGER

Location: Inside of the REDARC service panel – Drivers side

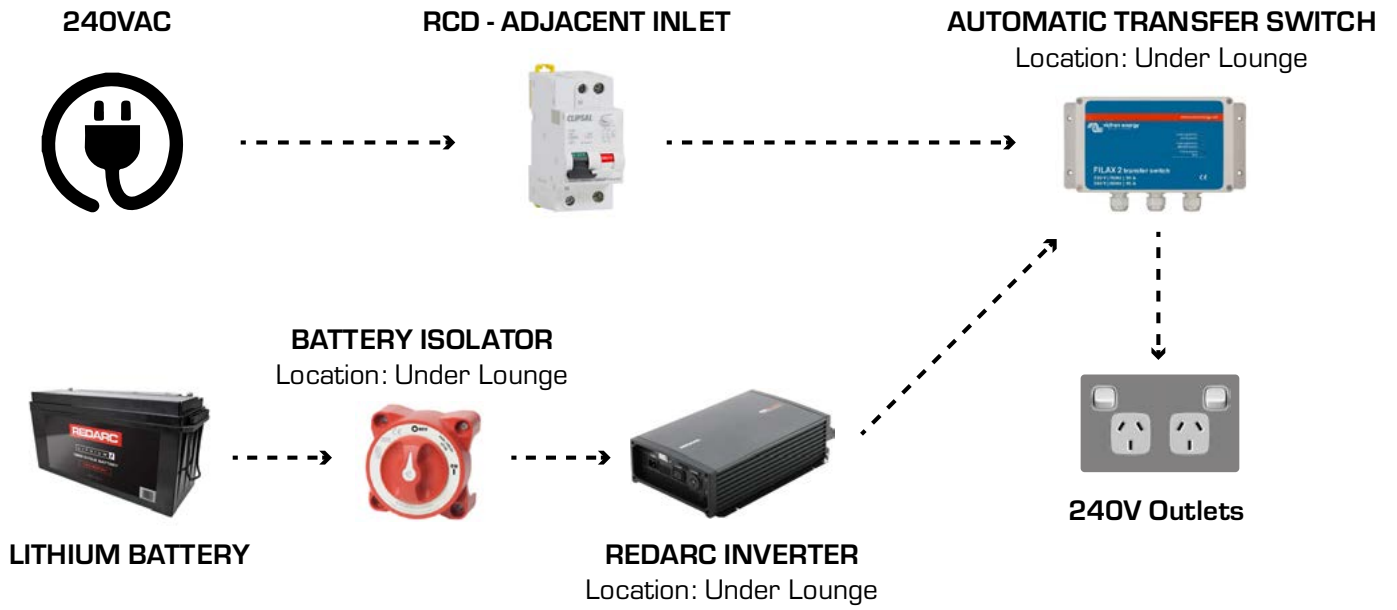


The REDARC 50A BCDC Charger receives power from the following sources to charge the 12v system in your ZONE RV.

- Fixed solar pannels on the roof

For further information about this, please refer to 12V LINE DIAGRAM.

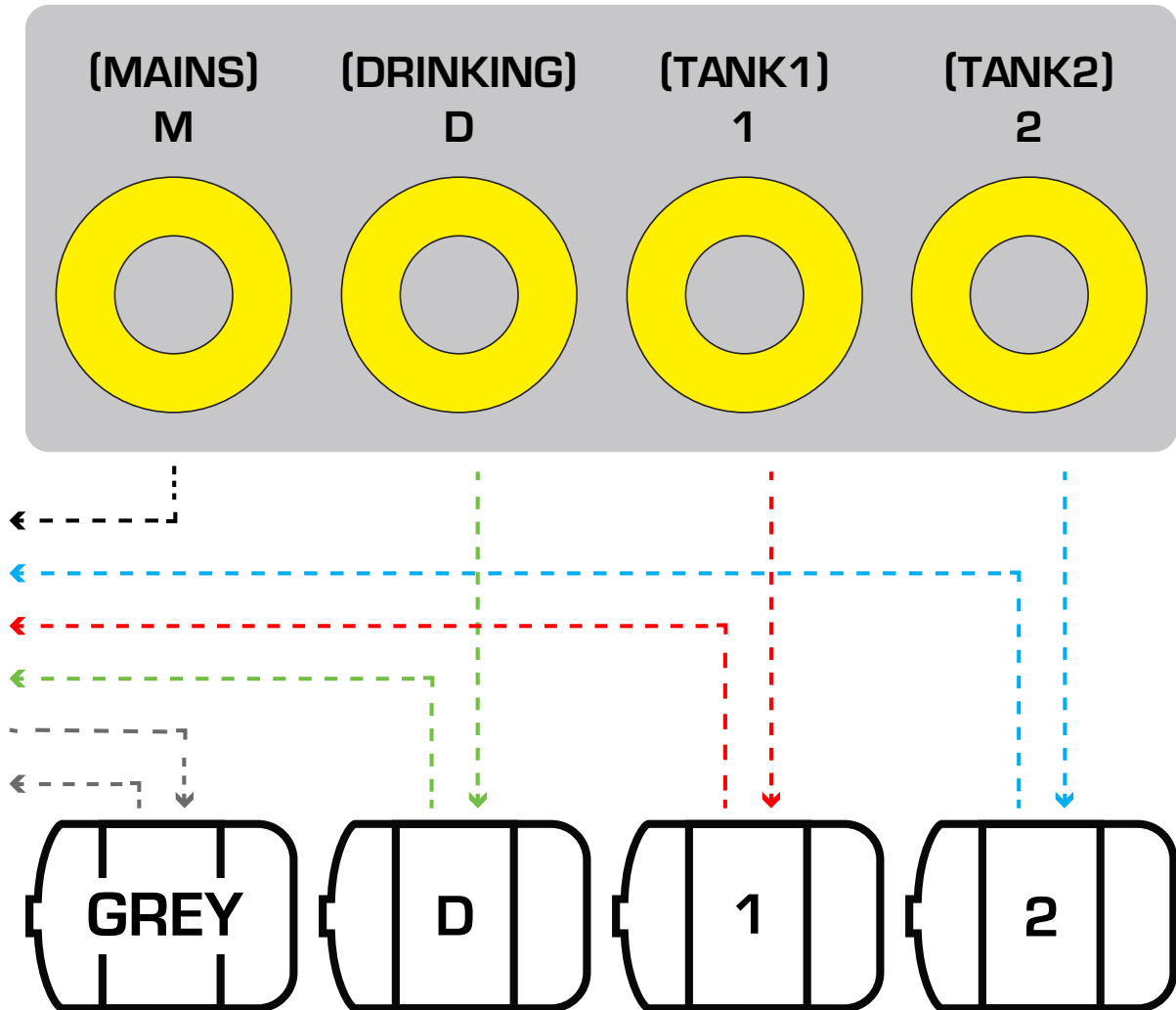
240 VAC LINE DIAGRAM





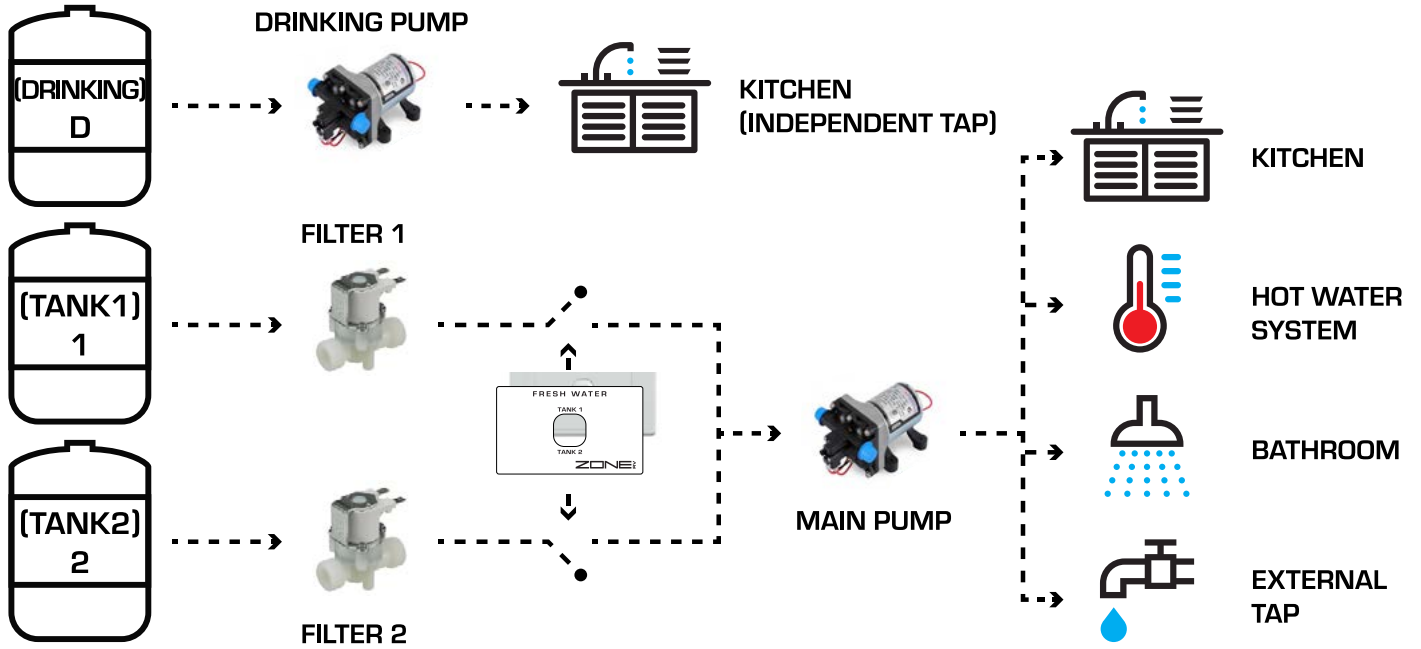
PLUMBING SCHEMATICS

WATER TANK SCHEMATIC





ISOLATED DRINKING WATER





PLUMBING LAYOUT IN SERVICE AREA

Location: Behind the inspection panel under the vanity.

Two electrically actuated valves control which tank the water is drawn from for the shower, vanity and drawbar taps. The single electrical switch under the washing machine is used to select between the two.

WATER PUMP

Diaphragm access (See pump manual for service)



Check filter for obstructions
regular cleaning required

Note: Before turning on the water pump, make sure you have selected which tank you want to draw from at the pump panel pictured on Page 14. This stops risk of your water pump running dry and seizing. The water levels for the tanks can be viewed on the REDARC REDVISION Display.

Note: The tap labelled "WASHING M/C" is used to isolate the water supply to the washing machine for maintenance purposes.



WATER FILTERS

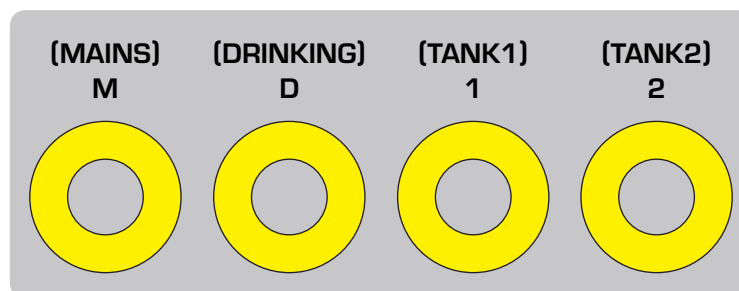
Location: The main water filter is mounted behind the inspection panel under the vanity. A second filter for the drinking water is located inside the cabinet, inside the storage area on the drivers side of the van.

The Aquapro AIC-K filter will require replacement after approx. 12 months and can be purchased from Zone RV or www.mywaterfilter.com.au

Note: If you find that your caravan water pressure has depleted, remove your water filter and back flush to remove any debris.

WATER CONNECTION MANIFOLD

Location: Driver's side of caravan, behind rear wheel



FILLING YOUR WATER TANKS

- Ensure your tanks aren't already full by checking the tank gauge on your REDARC Display.
- Plug a hose onto the inlet for the tank you wish to fill. Visual inspection required when filling in case breathers are blocked, making sure tank isn't expanding.
- Do not fill with full mains flow with the tap only partially open. This ensures the breathers on top of the tanks can keep up with the amount of water entering the tank.
- Keep an eye on the level display to make sure the correct tank is filling, and you do not overfill the tank.
- When your tanks get close to full, you might notice a little overflowing coming from the breather holes located in each tank.

Note: If you over fill the tank, water will be forced out the tank breathers and onto the ground. If this happens, stop filling the tank and give it time to relieve the pressure in the tank.



MAINTENANCE

It is good practice to periodically wash off the top of your tanks to remove any build-up of dust/dirt that may accumulate after long periods of dirt road travel. Also inspect the tank breathers for obstruction. Keep rubber caps on the inlet connectors when not in use.

PUMP OPERATION:

Pump will engage when any tap is turned on.

Note: Pump is not required when on mains pressure as it is bypassed straight through the filter.

DRAINING YOUR WATER TANKS:

- Each water tank has its own bung that can be removed.
- They are located on the side of the tank underneath the chassis.
- Unscrew anti-clockwise to let the water flow out.
- When replacing the bung, ensure it is done up hand tight only.



Note: Do not use a tool as you may strip the bung thread.

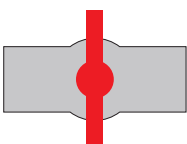
DRAINING THE GREY WATER TANK

Location: Drivers side of van, behind rear wheel.

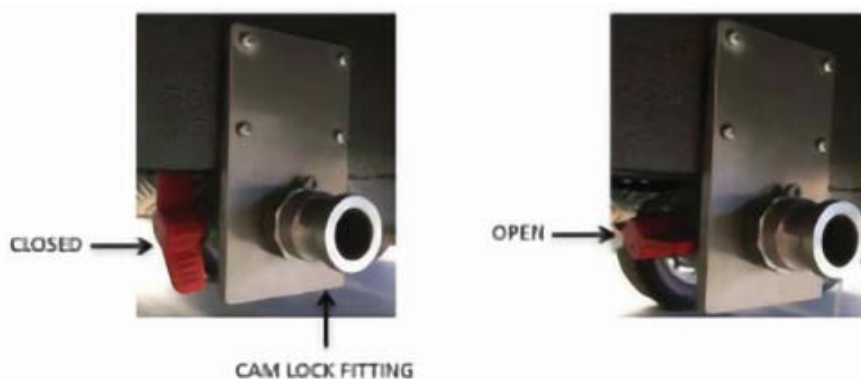
- Attach the supplied grey water hose to the cam lock fitting.
- Turn the valve to the open position.

Note: Grey water tanks must be used .

Closed Valve



Open Valve





GREY WATER BY-PASS

Location: Drivers side of van, behind rear wheel, next to grey water

In situations where it is not necessary to retain grey water, the grey water bypass may be used. This directs grey water straight to the camlock fitting rather than going via the tank.

- Attach the supplied grey water hose to the cam lock fitting.
- Turn the Bypass valve to the Closed position.
- Turn the Grey Water Outlet valve to the open position.

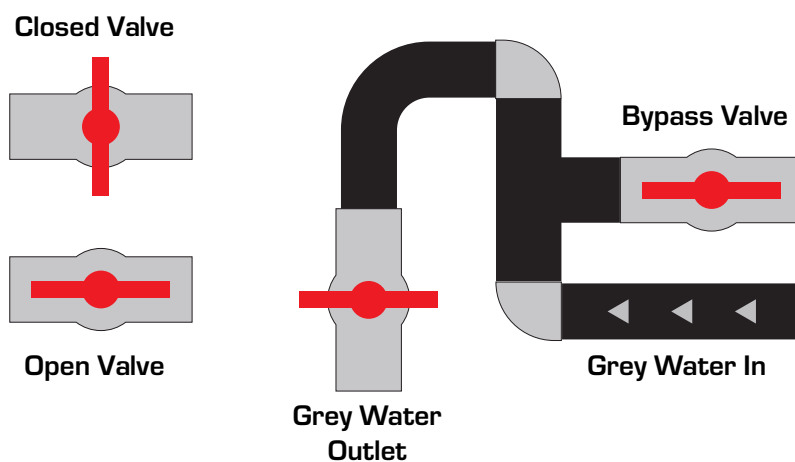


Diagram shows position of valves when retaining grey water [Not using bypass].

TOILET

Your Zone RV caravan is fitted with a OGO Composting Toilet.

For more information, please refer to OGO Composting Toilet manual.



HOT WATER SYSTEM

Your Zone RV caravan is fitted with a diesel hot water system. The diesel tank is located on the drawbar and feeds both the hot water system and the air heater via separate lines. The diesel pumps and filters are fixed to the inside of the chassis rail approximately half way along the drawbar.



The diesel hot water system is located in the vanity cabinet in the ensuite. The heater should be turned on approximately 15 minutes prior to using hot water to allow it to heat up. When hot water is not required for extended periods it is recommended that it be switched off to conserve fuel. Due to the design of the hot water system it is normal for residual heat to be felt on the surrounding benchtop and cabinetry.

Caution: During operation the surface of the water heater unit may reach temperatures in excess of 80°C. Avoid contact whilst hot as serious injury may result.

Note: Please refer to the product manuals for further instructions.

SEAFLOW EXTERNAL WATER PUMP



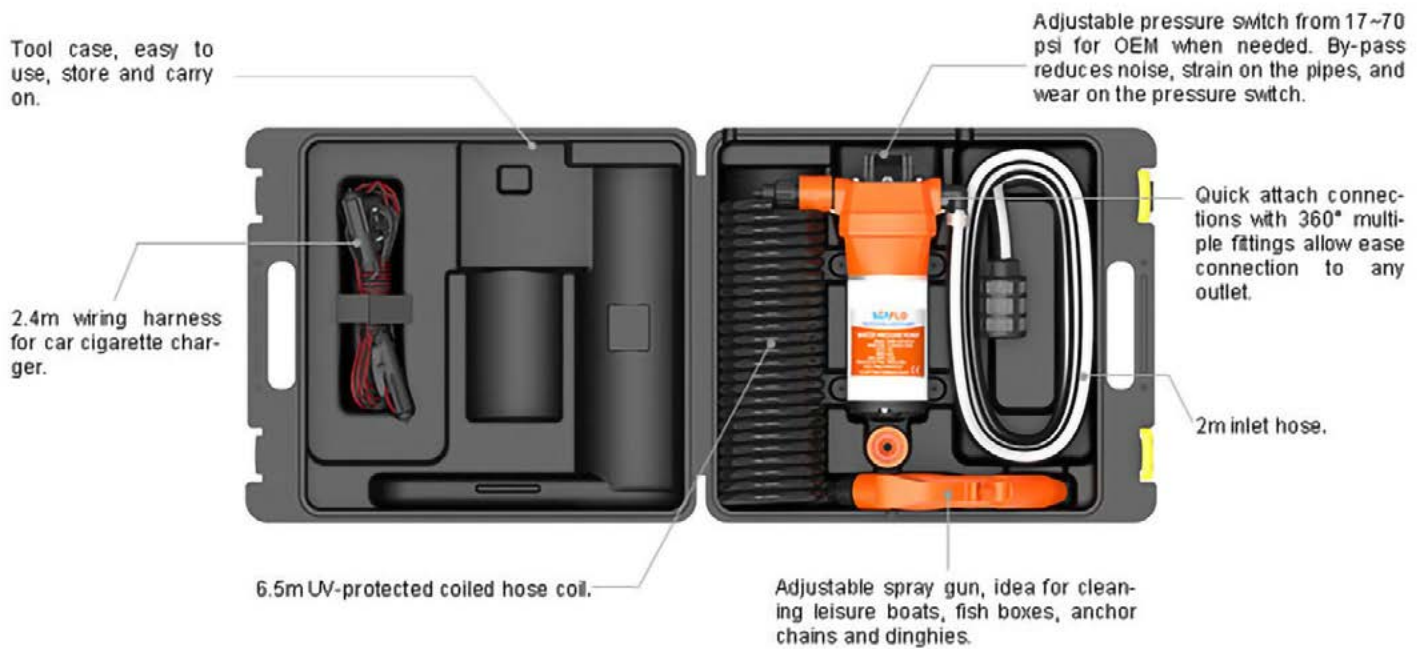
The Seaflow water pump is an external pump supplied with you caravan to fill water tanks when you have no access to mains water supply.

Note: Water must be potable if going into drinking water tank.

FILLING TANKS WITH WATER PUMP

1. Put strainer into water supply
2. Ensure the inlet hose is connected to inlet
3. Connect coiled hose to desired filling tank
4. With dry hands, connect to the 12V socket adjacent the electrical enclosure.
5. Once 12V power is connected, water will begin flowing into tanks.

FEATURES & BENEFITS



For more information, please refer to Seaflow Wash Down kit manual.



COMPRESSOR FRIDGE/FREEZER

Your Zone RV Expedition is supplied with two fridges, one internally and a second adjacent the outdoor kitchen.

GENERAL MAINTENANCE & TIPS

Cleaning:

Wash the inside of your fridge with warm water and a mild soap. Never use abrasive or corrosive cleaning agents, steel wool or scouring sponges. A soft sponge, towel, or soft brush is recommended. Always keep the inside of the fridge clean and dry. Remove any condensate water or ice which gathers in or near the tray under the freezer compartment. Be careful when opening or closing the freezer door if ice has been allowed to accumulate in this area. Keep the doors of the fridge ajar when the fridge is not in use, to allow fresh air to circulate inside the fridge compartment.

Defrosting:

Defrosting needs to be carried out when the ice layer reaches a thickness of 5mm. Turn the fridge power off and move your food and beverages to another cool place. Do not use any objects to remove the ice or frost, it must be allowed to melt naturally. Once the ice has melted, dry the inside of the fridge and freezer compartment thoroughly.

Energy Saving Tips:

- Have as much ventilation as possible - the more the better.
- Keep the fridge out of direct sunlight whenever possible.
- Only open the fridge or freezer door when necessary.
- Allow hot food to cool down before placing inside fridge.
- Defrost the fridge as soon as a layer of ice forms.
- Set the fridge to be only as cold as necessary.

Note: Please refer to the product manuals for each specific fridge for further instructions.



POP TOP

Your Zone RV Expedition is equipped with an electrically actuated pop top roof to minimise height whilst travelling. The control switch for the roof actuators is located under the awning switch, inside the entry door on the left hand side. Pressing the rocker switch at the top raises the roof.

Note: The caravan must only be used in either the fully down or fully up positions.

Caution: Ensure that the roof is fully lowered when travelling. Failure to do so may result in damage to the caravan and will void warranty.

RAISING THE ROOF

Prior to raising the roof, the van must be parked, levelled and stabilised.

1. Open the entry door and enter the van to turn on the power via the REDARC display panel.
2. Whilst standing outside the van, press and hold the switch until the roof reaches its maximum height, approximately 600mm above the lowered position. The actuators will automatically cut out when this position is reached.





LOWERING THE ROOF

1. Lower the top bunk bed (if optioned) into the horizontal position ensuring that the switch adjacent the fridge is engaged. Note: If the bunk is not lowered there will be no power to the actuator circuit.
2. Ensure that everything inside the van is prepared for travel. All objects that protrude above the bottom edge of the canvas (including but not limited to the top of the fridge cabinet, the top of the storage shelving along the passenger side of the van, the top of the washing machine/ vanity cabinet and the top of the bunk) must be removed and stowed appropriately. Failure to do so may result in damage to the ceiling panel or cabinetry.
3. Prepare the inside of the van for transitioning back to transport configuration including:
 - Zip all canvas windows shut.
 - Remove the shower head from the holder, wrap in a towel and place on the shower floor.
 - Unroll and zip all canvas doors closed.
4. Stand outside the van and slowly lower the roof, pausing to check at regular intervals that there are no obstructions inside the van. When the roof is lowered approximately half way, complete a walk around to ensure that the canvas is folding in the correct direction and not protruding outside the edge of the roof.
5. Continue to lower until the roof is approximately 10 centimetres (4 inches) from the fully lowered position and complete another walk around to ensure that the canvas is fully inside the seal on the roof.
6. Lower the roof until the actuators are fully retracted. Complete a final walk around to ensure that the seal on the roof is contacting the body all the way around.
7. Set the suspension to travel height
8. Using the RedArc panel, switch off all power to internal lights.
9. Close and lock the main door.
10. Return the stair to the travel position



CANVAS CARE

The Zone RV Expedition is fitted with a Fiamma F45 Electric Awning. The rocker switch for the awning is located inside the door under the Airbag Panel.

Note: For more information, please refer to the Fiamma F45 Awning manual.





CONDITIONING

To ensure optimum performance of the canvas it is critical that seasoning is carried out when it's new and after long periods of storage. This may be achieved by popping the roof of the caravan and then wetting the canvas with clean, fresh water (being careful not to get water in the vents). Doing so allows holes along the stitch lines to shrink around the thread and the cotton to swell to make it water tight. Complete a total of three times with the canvas being allowed to dry between each.

ZIPS

Care must be taken when using the zippers. Ensure that tracks are aligned correctly before sliding the zipper and move slowly without excessive force. If fabric gets caught, slowly reverse the zipper to remove. A silicone based lubricant may be used to increase zip life. If for any reason dirt gets in the zipper teeth it should be cleaned prior to use to ensure that abrasion or damage doesn't occur.

CLEANING

Clean using a sponge with warm water. Do not use detergent, soap, bleach, as these may remove the waterproofing and/or damage the fabric. Allow to air-dry completely before packing up and storing for long periods.

GENERAL

Ensure that the canvas doors in the bathroom area are allowed to air dry completely before rolling up.



BUNK BEDS (IF OPTIONED)

Where optioned, bunk beds provide additional bedding. Whilst travelling, the top bunk must be in the horizontal (sleeping) position.

When stationary, with the roof in the raised living position, the top bunk may be folded up against the wall to allow the lounge to be used. The procedure is as follows:

1. Remove all loose items from the top bunk.
2. Remove the elastic locking loop from the button adjacent the fridge.
3. Lift the bunk upwards and push towards the wall until the roof mounted latch engages. The latch will drop down and hold the bed in the raised position when engaged.
4. Fold the support leg back against base of the bed and fix in place using the elastic locking loop.
5. Remove the cushioned insert from the top of the table.
6. Loosen the locking collars on the table pedestal and lift into position.
7. Tighten the locking collars.

To return the bunk beds to the sleeping position:

1. While supporting the weight of the table top, loosen the locking collars on the table pedestal and gently lower.
2. Once lowered, install the cushioned insert to complete the lower bed.
3. Remove the locking loop from the support leg and rotate so that it is perpendicular to the bed base. The latches in the support leg will lock it in place.
4. Push the bed towards the wall to unload the roof mounted latch and press the latch up towards the ceiling.
5. With the latch pressed up, slowly lower the bed into the horizontal position, ensuring that no bedding is under the support leg.
6. Fix in place using the elastic locking loop adjacent the fridge.

Note: The actuators will not operate unless the bunk bed is in the horizontal (sleeping position)

Caution: Ensure that no objects protrude above the lower edge of the canvas when preparing to lower the roof. Failure to do so may result in damage to the ceiling panel.

Caution: The top bunk is not recommended for children under 9 years of age.

Caution: The top bunk has a weight capacity of 60kg MAX.



ATX AIRBAG SUSPENSION (DISC BRAKES)



SETTING RIDE HEIGHT

To achieve the best possible ride, it is important to correctly set your suspension ride height. This allows for the correct amount of travel and for all components to be operating as designed.

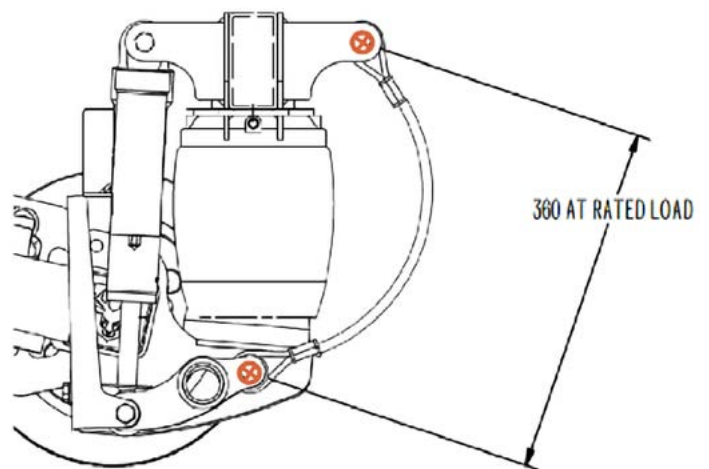
As this system is designed to allow for differing loads the best way to measure and set ride height is per below.

HEIGHT SETTING METHOD

Measure the distance from lower eyelet to upper eyelet of the rebound cable mounts (as shown).

360mm from eyelet to eyelet will give you the optimised ride height for the load being carried.

For easy confirmation of ride height, there is a visual marker in the wheel arch to line up with the tyre. This typically eliminates the need to remeasure the spacing on every adjustment.





SUSPENSION SYSTEM

OPERATING AT NON-STANDARD HEIGHT

It is permissible to use the air springs to level the vehicle on site when stationary. This should be done with the brakes off but with the vehicle safely secured. (e.g., attached to the tow vehicle).

CARAVAN/ TRAILER STORAGE

If storing your vehicle for long periods, the suspension can be set to below standard ride height for improved access/ clearance. It is normal for air pressure to be lost during long term storage of your caravan causing the suspension height to lower

STORAGE

If storing your caravan for long periods, the suspension should be set at normal "Travel" height to protect the bump stops and air bags from compression damage.

"GET YOU HOME" MODE (EMERGENCIES ONLY)

In the event of air loss, it is possible to run the caravan on the bump stops. The "get you home" feature of the suspension has been successfully used on normal roads. Extreme care and very slow speeds are required if running with airbags deflated. Off-road conditions especially can cause damage to airbags and drawbar mounting brackets. It may be advisable in these circumstances to lower tyre pressures to provide additional cushioning to road bumps.

Note: Warranty does not apply under these conditions

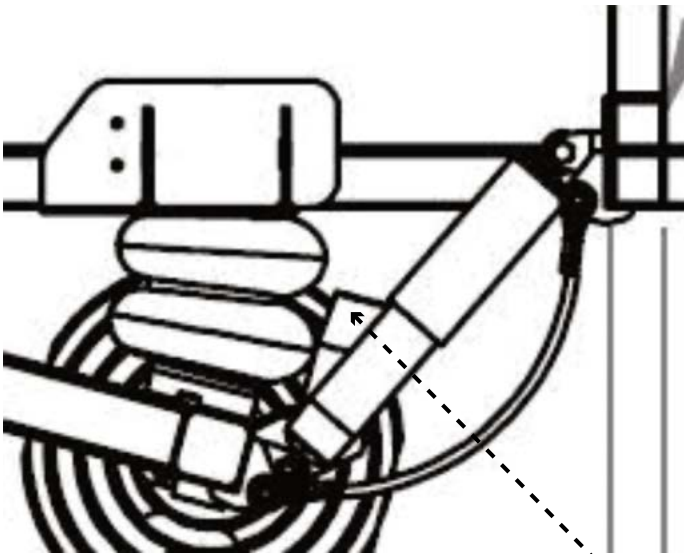
AIRBAGS

Note: If the compressor has been off for some time, it will need a few minutes to fill the air tank before you can pump the airbags up.

Travel Height: The critical function for the correct traveling arrangement is the HEIGHT of the caravan, NOT the airbag pressure. The following image shows the correct way to measure height for travel [from the top of the bump stop to the bottom of the chassis rails.

Note: Your airbag pressure may differ from side to side when setting this up and that is normal. The normal operating PSI range is 45-60. Anything more than this can show overloading in your caravan or incorrect travel height. Traveling with the airbags higher or lower than these PSI settings can result in damage of your ZONE RV and may not be covered under warranty.

SUSPENSION SYSTEM



BUMP STOP



RIDE HEIGHT

TOP OF TYRE

AIRBAG CONTROL PANEL MANUAL LEVELING

OUTDOOR
KITCHEN LIGHT

EXTERIOR
SIDE LIGHT

ENSUITE

EXTERIOR SIDE
LIGHTS COLOUR

COMPRESSOR
ON/OFF SWITCH

AIRBAG PRESSE
LEVEL GAUGE

AIRBAG LEVELING
SWITCHES





SAFE JACKING

- Park the caravan on firm and level ground
- Chock the tyres on the opposite side securely so that no forward or rearward movement is possible.
- Jack up the caravan directly under shock absorbers at lowest point on swing arm as shown below.
- Secure the caravan on jack stands of adequate capacity front and rear.



CRUISE MASTER ATX - JACKING POINTS

Note: It is recommended that you get a qualified mechanic to do any bearing servicing

WHEEL HUBS

Always check the hub temperatures at least twice a day when traveling. They should be warm to your touch. If one side is constantly hotter than the other then have them checked immediately by a Mechanic or Service Agent.

When traveling on dirt roads, check hub temperatures every time you stop/ every hour. When traveling on dirt roads check wheel nuts every morning before departure without fail, on both tow vehicle and trailer.

If brakes or hubs become excessively noisy, hot or are grabbing, have them serviced by a motor mechanic or service agent.

Note: Please refer to the Cruisemaster website for specific maintenance requirements relating to suspension components.



Note: This document is only a guide. Zone RV recommends that all service work be carried out by a qualified mechanic or by a one of Zone RV's service centres.

CHECKPOINTS AFTER A SHORT TIME ON THE DIRT

Generally, 30min intervals are good to check your van to see if anything has worked loose. This is a good practice until your confident all the fastenings have bedded in and are holding. During this check also ensure there are no areas showing signs of dust ingress.

DUST INGRESS

Silicon Seals: Although your van has been fully sealed during production, there is a small chance the glues/sealants may have moved and now allow some dust ingress. Its always good practice to travel with a tube of silicon sealant for the unlikely need to re-seal.

External Hatches: It is good practice to periodically check that your external hatches are sealing correctly. It may be necessary to adjust the locking lever from time to time.

BEACH USE

After driving on the beach or camping near salt air, wash your van thoroughly and apply a liberal coating of Inox or WD40 to all steel, stainless steel and aluminium surfaces. Allow to soak in for 24hrs and wipe off residue or wash off with car wash.



THINGS TO CHECK

As with any vehicle regular checking and visual inspections before and during OFF-ROAD driving is required on your ZONE RV. Although we take great care on selecting the correct fastenings methods, these are not infallible to the rigours of off-road driving. Below is a list of things to check before hitting the dirt:

- Check cupboard fastenings are tight. Draw latch fastenings in particular need to be tightened, check all fastenings with a Philips head screw driver.
- Ensure that all appliances (airconditioner, hot water system, air heater etc) are turned off.
- Check all fixtures for appliances and components like the water pump, inverter, fridge.
- Make sure hinge mounts for cupboard doors are tight as loosening of these can allow the door to come open. Check all draws and doors are latched correctly
- Ensure that all loose appliances (induction cooktops etc) are appropriately secured.
- Check fasteners for drawbar components.
- Check all external fixtures (gas bottle box, spare wheel etc).
- Make sure your Anderson plug is tight into the back of your car. It is recommended that it be fixed (via cable tie) to the trailer plug so if it comes out or is disconnected it doesn't drag on the ground
- Check all hatches are closed tight.
- Walk around your van and visually inspect to see if there is anything unusual. Any component that looks loose, or any areas of damage
- Check your tyre pressures and suspension height
- Ensure gas bottle is secure



THIS IS A GUIDE ONLY

Some of the conditions that you may encounter during your travels can cause damage to your van if you do not take appropriate actions. ZONE RV has the following recommendations for some of these conditions, (note these do not account for traffic or weather conditions) Values shown are cold tyre pressures.

BITUMEN ROAD TYRE PRESSURE – 40 PSI (110KM SPEED LIMIT)

DUSTY ROAD TYRE PRESSURE – 35 PSI (100KM SPEED LIMIT)



LIGHTLY CORRUGATED
28 PSI (80 – 100km Speed Limit)



MODERATE CORRUGATIONS
23 PSI (80km Speed Limit)



BAD CORRUGATIONS
18 PSI
(60km Recommended Minimum Speed)



SAND DRIVING

- Reduce speed and reduce all tyre pressures on both the van and vehicle to 18psi or less.
- Try to drive on the harder sand. Maintain the momentum of your vehicle while negotiating soft sand and stay in the wheel ruts as they are usually harder than the soft sand.
- If your vehicle allows, select low range auto for beach access and high range 4WD for hard sand driving. It is advisable to turn the brake controller off as sudden stopping can bog the trailer.

WATER CROSSING

- It is recommended that you stop to allow cooling of your hubs and bearings for a period of approximately 20 minutes before making a water crossing, this may prevent ingress of water through the wheel bearing seals
- After making water crossing, apply the brakes once on the track until braking is normal, or use the brake controller to apply the trailer brakes to dry out the linings
- Always check bearings after crossings and regrease as required.

RECOVERY POINTS



Your Zone RV Caravan is fitted with two (2) load rated recovery points at the rear to assist in recovery of the caravan in the event that it becomes stuck and cannot be recovered by driving it forward. These points should only be used with suitably rated recovery equipment (shackles etc) and an equaliser strap. Avoid using snatch straps or kinetic ropes when recovering your caravan.



BIKE CARRIER (OPTION)

Your Zone RV Caravan may include provision to install a bike carrier at the rear. This socket is only intended for use with the iSi-442-400/40 - Extreme Duty Compact Beam carrier with a maximum bike load of 37kgs.





DEPARTURE CHECKLIST

INTERNAL CHECK

- Turn off water heater/ diesel heater/ pumps
- All windows locked in closed position
- All window blinds are in open "Travel" position
- TV has been removed from wall mount and placed in a secure position
- Lower main table into "Travel" position
- Canvas windows and doors are zipped closed
- Fridge doors are latched closed
- Shower head is stowed on the floor wrapped in a towel or in bathmat

EXTERNAL CHECK

- Gas bottle disconnected and stowed in storage box.
- Store external kitchen and secure catches firmly.
- All hatches and doors, including entry door have been closed & clipped correctly.
- Secure awning latches/catches.
- Stabiliser legs set to "Travel" position
- Entry step set to "Travel" position
- Disconnect water/ grey water/ grey water hoses
- Disconnect mains electricity cord if connected
- Ensure air bags are set to travel height

SAFETY CHECK

- Check safety chains & brake-safe lanyard are connected
- Check trailer & anderson plugs
- Check lights & indicators
- Check coupling is secured & cap is on.
- Check jack is set in "Travel" position
- Check handbrake is released



WHEEL NUTS/LUGS & BEARINGS

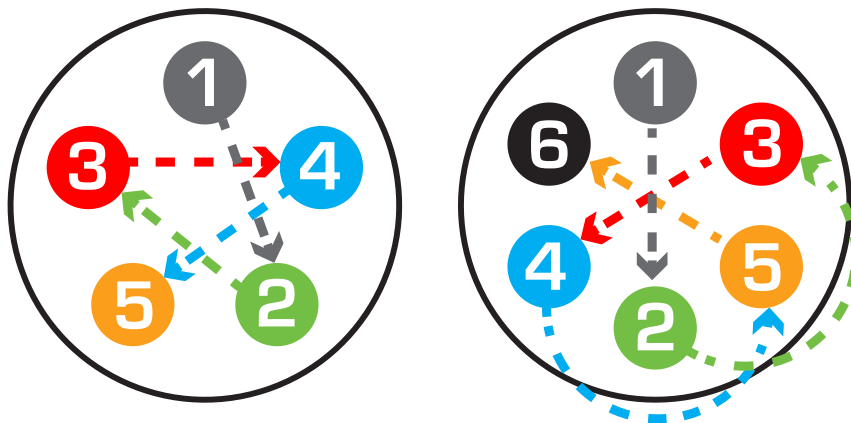
Wheel nut torque must be checked prior to each trip and following the first 100km of operation following a wheel change or removal to ensure that it is within specification. Failure to do so could result in accident or injury. Tightening sequence is as per the following image.

Recommended torque = 209Nm/ 154 ft-lbs.

Note: A calibrated torque wrench should be used to ensure accuracy. Impact/ Rattle guns should not be relied on for achieving final wheel nut torque.

Note: It is your responsibility to check the wheel nuts prior to each trip

LUG NUT TIGHTENING PATTERN



Note: It is advised to check & re-grease the wheel bearings after immersing the axles in water. If you have done a large trip that includes traversing water crossings, a wheel bearing service is required.

VIN/COMPLIANCE PLATE, TARE & ATM:

- ATM or maximum load capacity can be found on the VIN plate in the tunnel boot
- Also on that VIN plate is your TARE weight, tyre size and recommended road pressure for your tyres.

EXCEEDING THE CARAVAN'S ATM & BALL WEIGHT IS ILLEGAL AND DOING SO WILL VOID YOUR WARRANTY AND MOST LIKELY INSURANCE.



CARAVAN WELDING

Note: Please contact Zone RV prior to completing any welding works on your chassis as doing so may void your chassis warranty.

- Prior to completing any welding, the batteries and any earth connections between electrical harnesses and the chassis MUST be completely disconnected. Battery terminals are accessible from the RedArc service panel on the drivers side of the vehicle. Earthing points may be found in the following locations on the inside of the chassis rails.
- Drawbar – Drivers Side
- Under Redarc Service Panel inside chassis rail – Passenger Side
- Under external kitchen in front of wheel, inside chassis rail – Drivers Side
- Ensure that earth points are reconnected prior to connecting to battery or mains power.
- Care must be taken to reinstate the corrosion resistance where welding has taken place.

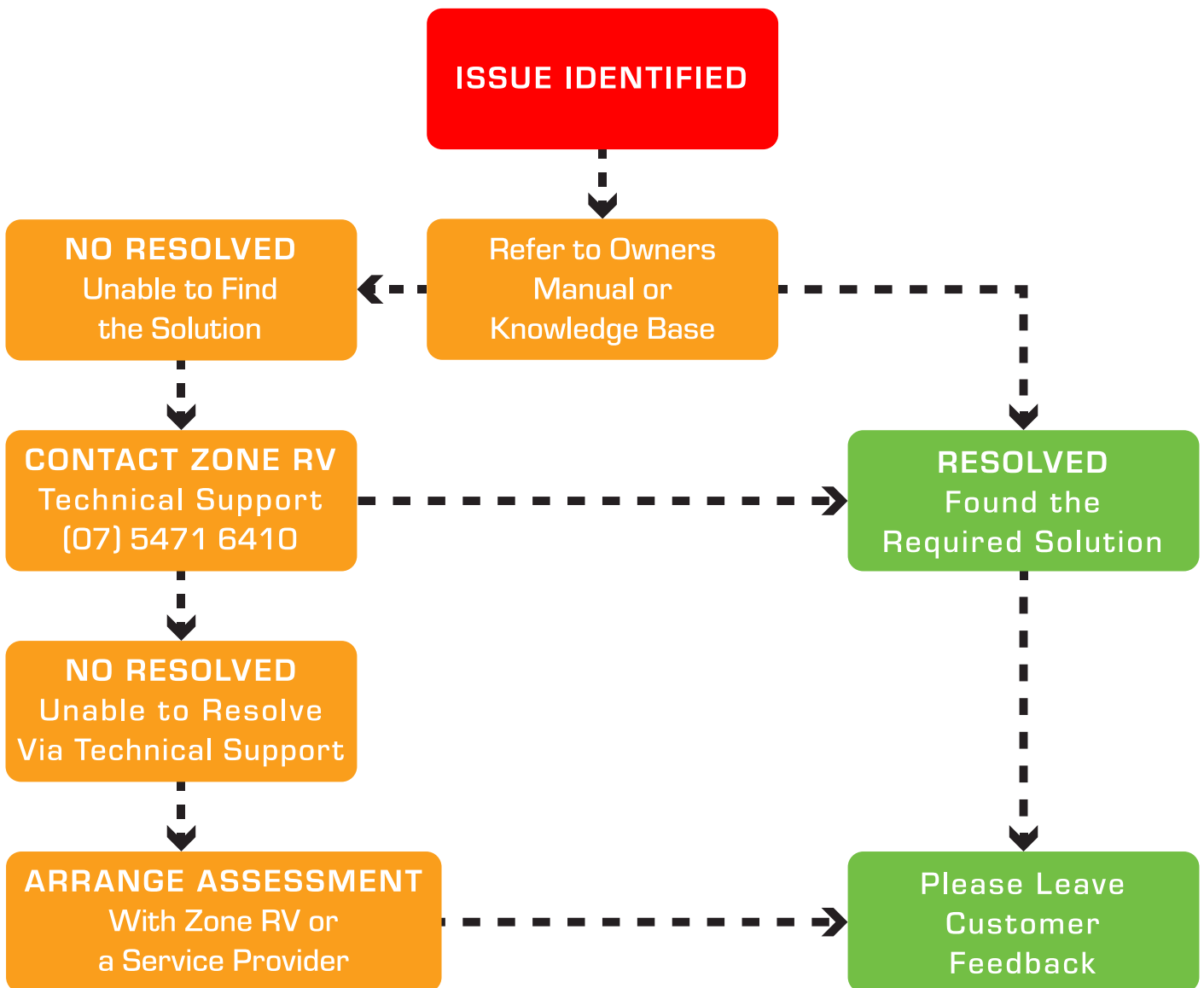
DRAW BAR DRIVERS SIDE



UNDER OUTDOOR KITCHEN



AFTER-SALES SERVICE DEPT CONTACT



ZONE RV AFTER-SALES SERVICE DEPARTMENT

A: 85 Quanda Road, Coolum Beach, QLD 4573

P: (07) 5471 6410

E: service@zonerv.com.au

W: www.zonerv.com.au





DISCLAIMER

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