

2022 Model Shown

Read Owner's Manual before using the equipment. Third Party Component Manuals should be read in conjunction with this manual. Maintenance guidelines must be met or exceded, failing to meet these guidelines may result in serious injury or death and property damage.

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Introduction



WARNING— Before using this product you should read this manual and those manuals supplied by component manufacturers applicable to this product.

This manual is supplied as a reference to required maintenance of the product. Failure to use and maintain the product in accordance with what is outlined in this manual may affect your warranty.

Incorrect and/or insufficient maintenance may cause product failure resulting in property loss, damage or injury or death. Maintenance intervals are guidance for normal use, extreme use may require shorter or additional maintenance intervals.

Manual content does not imply, express or overrule other any warranty, the owner should read the limited warranty terms included in this booklet.

Before using this product, you should be certain your tow vehicle is suitably rated and equipped to tow the product safely and legally. The trailer and vehicle pairing must be within the safe "Maximum Towing Capacity", "Ball Weight Capacity" and "Gross Combination Mass" as stated by the vehicle manufacturer.

Store Locations

QUEENSLAND	Ph 07 3333 1952
Gold Coast	
9 Indy Court	
Carrara, QLD 4211	
NEW SOUTH WALES	Ph 02 4474 4410
South Coast	
39-41 Shelley Road	
Moruya, NSW 2537	
VICTORIA	Ph 03 5945 5344
Melbourne	
31 Commerical Drive	
Pakenham, VIC 3810	
Albury/Wodonga	Ph 0484 618 549
4 Kane Road	
Wodonga, VIC 3690	
WESTERN AUSTRALIA	Ph 08 6244 2077
Perth	
46 Stebbing Road	
Maddington, WA 6109	
SOUTH AUSTRALIA	Ph 08 8522 1141
Adelaide	
U3/27 Theen Ave,	
Willaston, SA 5118	
NATIONAL	1300 594 000

Camper Safety Bulletin

Safety and Maintenance Recommendations for Camper Trailers & Hybrids

Anderson Plug

In a camper, where they have either a battery that requires charging or a fridge that operates off a 12V supply, an Anderson Plug is essential. Ensure you have the correct power rated Anderson plug for your camper trailer.

Camper structure

Do not drill into or penetrate the chassis, body, walls, roof, or lid of the camper, this may void the warranty.

Break-away Controller

The break-away controller is fitted to the camper trailer. The cable needs to be secured to the tow vehicle to ensure the controller functions correctly if the two vehicle and trailer are separated. This needs to be attached independently to the tow vehicle and not to the shackle which secures the trailer chains to the car.

Brake Controller

Fit a brake controller to your car to ensure the effective braking of the camper trailer.

Canvas

Make sure the camper tent, annex or awning is thoroughly dry before storage. Under certain conditions the canvas will sweat and grow mold, this is not covered by warranty. Always make sure the canvas is clean and dry. Remove all bird droppings, sticks, stones or other debris before the tent or annex is packed for storage. Protect the canvas from damage and sharp implements or poles penetrating the canvas. Keep any flame or hot implement away from canvas.

Insurance

Remember to have your camper insured with the correct type of coverage for your intended journey. This should include recovery and additional costs in the case of breakdown or accident which disables the camper. The trailer is generally not covered by your tow vehicle's insurance.

Safety chains

Safety Chains are attached between the drawbar and the towbar for the purpose of retaining connection between the towing vehicle and the trailer in the event of coupling failure. Cross over the chains onto the towing hitch. The caravan industry recommendation is that a shackle meeting the requirements of AS 2741-2002 be used to secure rated safety chains up to 3500kg capacity.

Storage and travel

Ensure all gas bottles are turned off and 12-volt master switch is turned off. Do not travel above 100km/h on sealed roads, travel at an appropriate speed when travelling off the sealed road.

Tyres

Ensure Tyres are correctly inflated to the required pressure. Refer to Vin Plate for the camper specific tire pressure.

Trailer training course

If you have never or rarely towed a trailer, caravan, or camper trailer, it may be best to complete a trailer training course to become familiar with the function and safety aspects of the trailer.

Wheel Bearings

Wheel Bearings should be checked every 5000km or annually. Never enter a water course/river crossing/beach with hot bearings, allow the bearings and wheel hubs to cool before you enter the water, this may result in significant damage to the Wheel Bearings.

Wheel Nuts

Wheel nuts need to be regularly checked and tensioned to the specific torque rating as indicated by the hub manufacturer. Our current default torque setting is 150Nm. Wheel nuts needs to be checked at 50 km and 100km after you have picked up the new camper trailer, and thereafter as per the hub manufacturer's recommendation. Ensure this process is completed when the wheels and hubs are cold.

About Your Camper Specifications

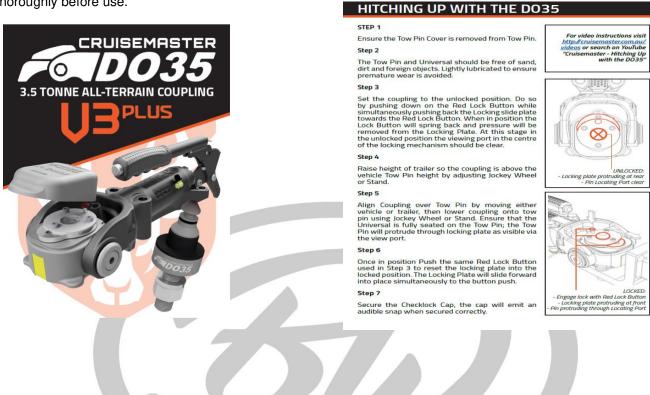
Specifications apply to: Bluewater Dargo	2022 Model Only
Color	Grey
Trailer Measurements (towing Size)	6.5m long x 2.24m wide x 2.66m tall
Fridge Slide Measurements	1100mm Long x 480mm High x 530mm Wide
Water Tank	2 x 120L (total 240l Fresh), and 1 x 50L (Grey)
Structure	Aluminum Composite walls and roof, Full 70 x 50 x 3.0mm RHS Chassis and cross beams
Drawbar	150 x 50 x 3.75mm RHS Extended drawbar for easy corner turning and easy reversing
Safety Chains	Dual drawbar safety chains rated AS4177
Suspension	Independent suspension with twin Ridepro shock absorber each side, trailing arm and Coil spring
Brakes	12" electric brake system, and adjustable hand brake
Wheels & Tyres	4 x Brand New 16" (6 Stud Pattern 139.7PCD 0 Offset) Alloy wheels with Mud Terrain tyres 265/75
Hitch	Cruisemaster DO35 Off Road Hitch 3,500kg
Tare Weight	Refer to your trailers compliance plate as may vary with Options. Standard is 2400kg
Aggregate Trailer Mass (ATM)	3000kg
Ball Weight (At Tare)	180kg
Jockey Wheel	ARK XO750 Off Road Twin Wheel Jockey
Jerry Can Holders	2 x 20ltr Jerry Can Tie Down Points
Gas Bottle Holders	2 x 3.75kg Gas Bottle Holders
Kitchen	Stainless steel kitchen, sink with drainer and hose, BBQ Bench, Storage Drawer, Dish Rack
Lights	LED Submersible Taillights and Number-Plate Light
Stabilizer Legs	4 x Heavy Duty Adjustable Drop-Down

Bearings and Seals

Bearings are a consumable item should be removed, inspected and repacked with grease every 5,000km and replace every 10,000km as best practice. See maintenance schedule for guidance.								
Bearing Number: Inner Bearing 25580 Cone: 25520	Outer Bearing 15123 Cone: 15245	Seal : 85.7x57x10mm						

Hitch

Your camper is fitted with an ADR compliant Cruisemaster DO35 V3Plus Off-Road hitch. <u>Cruisemaster DO35 V3</u>. It is important to maintain and inspect the hitch regularly as per the maintenance schedule. The hitch should be attached to the vehicle tow bar as per the instructions outlined below. The hitch has grease points and should be used to grease during every service. Your camper is supplied with a user guide for the DO35 Hitch, please read thoroughly before use.



Annex Care

Seasoning the Canvas

The process of seasoning your canvas before use is an important one but fortunately an easy process. This process is best done on a warm sunny day with no rain expected.

- Set up your camper and annex with all doors and windows zipped up and closed
- Using your garden hose apply a light spray of water over all the external canvas areas. Wet out the canvas without allowing water to pool in any section then allow to dry thoroughly.
- Repeat the process of wetting and allowing to dry another 2 times.
- On the third wetting check for any leaks in the canvas particularly along the seams. If a seam is weeping water through, allow the canvas to thoroughly dry then apply a wax stick along the area of the seam. This is done by lightly rubbing the wax stick over the area. Once applied wet the canvas and check again. NOTE: It is not unusual for seams that aren't able to be seam sealed with tape to weep after seasoning. This is not a reflection of canvas or workmanship but simply a characteristic of canvas tents. If the leak persists, contact your Eagle Outdoors customer representative.

Protecting Seams and Screens

Seams: When erecting any canvas tent, it is vitally important that you don't stress the canvas by overtightening when adjusting the poles. The most common cause of damage to canvas is over tensioning. Adjusting the tent should give the canvas good shape but the material should be relaxed. If you can see the stitching exposed in a seam, then the canvas is under strain and the pole should be backed off.

Zipper Care

Few parts of your camper work as hard as zippers particularly if you have young children. To get the maximum service life from zippers there are precautions and maintenance you can do.

Never force a zipper. If it jams or becomes difficult back it up and start again ensuring the two rows are feeding evenly into the slide without one row having much greater weight of canvas than the other. Avoid having doors half zipped when the tent is in use. Leaving the slider in a poor position while the door canvas flaps around, or people access the door pushing the canvas out of the way can loosen and damage the teeth. Always fully open or close the entry doors on your tent. Dry lubricant spray is a great way to make zipping up your tent easier. Apply a light coating of dry lubricant along the length of the zipper as needed.

Protecting from Mould & Moisture

Mould is very difficult to clean once a tent is affected. There are several ways you can prevent the occurrence of mould on your canvas. Never leave your canvas packed away wet. If you must leave a campsite with wet canvas, be sure to open and dry out your annex thoroughly at the very first opportunity when you get home. Mould can develop in just a couple of days so don't take the risk.

It is important to check under the mattress that there is no build-up of condensation overnight. Body heat on a mattress can create enough temperature difference with the exterior for moisture to form under it. If left unchecked this can cause mould when your camper is stored. Bird droppings can damage your canvas due to the Ph level. Always clean off any animal dropping as soon as possible. When storing your camper between camping trips it is recommended you pack a couple of moisture absorber packs into your camper.

There are many ways moisture can appear in campers and caravans with condensation being the most common. Condensation happens when moisture laden air cools and condenses into water. This can be because of something as simple s packing your camper up on a warm humid day or condensation forming because of a dew point under your camper mattress.

We can't prevent this, but we can implement ways to control it with the most effective being moisture absorbing products. These canisters and sachets do a fantastic job of removing moisture, so it doesn't form on textile surfaces like canvas.

Simply place a sachet or two under your mattress and a couple of canisters in the camper or caravan and they will absorb much of the moisture in the air.

Between using these and ensuring good seal compression on your camper, it will give you the best possible

prevention against mold.

Moisture absorbers can be purchased from hardware stores and most supermarkets and are cheap insurance against mold and mildew.









Setting up your Camper

Choosing a Spot to Set Up

When choosing a spot to set up your camper, start with a flat area with no overhanging trees. Birds and bats occupying trees can defecate leaving droppings on your camper that can damage paint and canvas and leaves and sap can also taint the paint on the camper. Ensure you are not camping in an area prone to flooding or with bad drainage in the event of rain. Even the slightest hollow in the ground can put you in a mini lake. In hot weather, if possible, set your camper up so the sun's arc goes from front to back or back to front with the annex/awning in the general direction the sun is arcing across. Doing this will keep the bulk of the camper in shade and the inside cooler and shaded by the awning.

Levelling Your Camper

The stabilizer legs on your camper/caravan are not designed for supporting the full weight of the trailer, they are there to stabilize it once it is level. Using your stabilizers as a lifting mechanism will void your warranty as will extending them with a "rattle gun" or "impact wrench". Levelling front to back can be done by raising and lowering the jockey wheel prior to adjusting the stabilizer legs. Getting the trailer level from left to right should be done with drive on stepped ramps as illustrated below. Once levelled the legs can be lowered to keep the trailer stable. On soft ground you may want to use timber sole boards under the stabilizer feet.



Site Power

Your camper has a 240V system, and you will need a 15Amp extension lead to plug into the camper, to supply power to the inside and outside 10A power outlets. The Redarc BMS charger in your camper should be plugged in at all times into the power point mounted under the bed, and switched on. Never leave power leads coiled when in use, lay the lead out back and fold in a manner that won't be a trip hazard or risk damage to the lead.

Pole Diagram

Hybrids 15FT Tent Pole Drawing

mm

No.	QTY	ø25 aluminum tube length	<pre>ø20 Aluminum tube length</pre>	ø25 Fit	tings	ø20 Fittings	
1#	2	1300	1400	+		-	
2#	4	1100	1200		5		
3#	10	1300	1300	+		₩	220
4#	2	1400	1400	+		₩€	500
5#	6	1100	1200			₩€	
6#	2	1500	1600	-	.]]	#	800
7#	2	1300	1400		5		
8#	3	800	900		5	- [[]	For outdoor shower tent

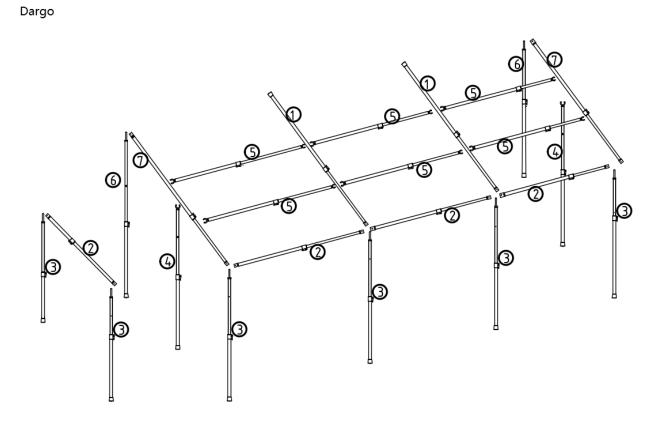
1# ×2 2# ×4

3# ×10

4# ×2

5# ×6

6# ×2



Storage & Care

Long Term Storage

To maximize the life of your camper/caravan you should consider additional protection from the elements. UV light and moisture can have an adverse effect on materials when left unprotected outside. This section outlines some of the things you can do as an owner to protect your investment.

Interior

Moisture in the smallest amounts can cause mould. High humidity and cooling temperatures can create condensation, additionally condensation can form under mattresses due to temperature differences between warm bodies on top and the bed base being cold from outside temperatures. As a precaution you can do the following:

- Check under mattress for moisture before packing up. If moisture is found allow to thoroughly dry before closing your camper.
- Store 1 or 2 moisture absorbing packs/dehumidifier packs in the camper/caravan to draw away any residual water vapor.
- If packing up with damp canvas, open and dry out the canvas at the first opportunity when returning home. Dry all canvas thoroughly and follow point 2.

Exterior

The use of a Bluewater camper cover or tarpaulin will extend the life of components and keep your investment looking better for longer.

It is recommended the water tanks are drained after each use, to prevent bacteria possibly growing in the water tank. The tank should be flushed before filling with fresh water also.

Securing Your Camper

When parked and unhitched you should always use suitable wheel chocks to ensure the trailer can't move in the event of a handbrake failure. For security, a wheel clamp or and hitch lock are highly recommended.





Maintenance

Maintenance is essential to keep your camper in a safe and usable condition. Campers are no different to any other motor vehicle and require servicing at regular intervals which may vary according to use and the environment in which it is used. The service schedule outlines the service intervals for safe travelling and your owner obligations under our warranty policy. Servicing should always be carried out by a competent person with relevant experience. The wheel nuts must be checked after travelling the first 100klms, then periodically during every trip. Wheel bearings must be checked after travelling the first 100klms from brand new, to ensure they have "bedded" in properly and still adjusted correctly.

Periodically check your tyres for abnormal wear. Your suspension is adjustable just like your car and can be subject to movement especially in off road conditions. If you notice abnormal tyre wear you should seek a wheel alignment as soon as possible

Recommended tyre pressure for highway use is 65PSI. Your tyre pressures should be adjusted to suit the many variable off road conditions you may encounter, this will help reduce the risk of punctures or tyre damage.

WARNING:

- Never work beneath the camper while suspended on a jack. Always use "Jack Stands" with an adequate SWL.
- 240volt appliances and wiring must only be serviced and repaired by a qualified tradesperson.
- Gas plumbing must only be serviced and repaired by a qualified gas fitter

Maintenance Schedule

2	Body seals co	Gas system Le	Batteries Ins	Lights Ch	Tyres ch	Wheel Nuts 14	Wheel bearings & seals Ins	Brakes & Linings Ad	Suspension Pivots & Lu Bushes Ch	Hand winch & webbing Lu	Jockey Wheel Lu	Handbrake lev	Hitch Ins	item	
Check all nuts and bolts ensuring none are	Check condition and flexibility as well as compression when closed. Adjust locks if necessary	Leak test using gas fuse	Inspect terminals and test voltage & maintenance charge	Check all lights operating	check pressure and inspect for damage	Check torque @ 125Nm (12mm studs) 140nm (14mm studs with alloy wheels 200nm (14mm studs) Steel Rims	Inspect, clean and relubricate	Remove drum and inspect lining thickness. Adjust Brakes	Lubricate and check for excess movement. Check torque on bolts. 190Nm	Lubricate & check webbing for damage	Lubricate & check for stability and secure locking	Check cables for damage and adjust when lever extends beyond 3/4.	Inspect for damage, wear and lubricate. Check torque on bolts to 76Nm	Details	
						×		×					×	First 50 & 100km	
×			Usen			×		×				×	×	3 Months 500km	
×	Each t		naintenanc	Each t	Each t	×	×		×	×	×		×	1000km	
×	ime you use	×	e charge or	me you use	me you use	ime you use	×	×	×	×	×		×	×	6 Months 5000km
×	Each time you use your camper		Use maintenance charge or check & charge Monthly	Each time you use your camper	Each time you use your camper	×	×	×	×	×	×		×		
×	7	×	ge Monthly	7	_	×	×	×	×	×		×	×	18 Months 15,000km	
×						×	×	×	×	×	×		×	12 Months 18 Months 24 Months 10,000km 15,000km 20,000km	
Inspect every 2500km in offroad	Inspect for damage each pack up and adjust locks if necessary		Use maintenance charge or check & charge Monthly	Pre Every Use	Pre Every Use	Daily when travelling	Inspect every 2500km when experiencing water crossings or flooding	Every 2500km when using offroad	Lubricate every 500km when experiencing water crossings or flooding	Inspect webbing each use		Or as required	Check every 1000km in offroad conditions	Notes	

500KM FIRST SERVICE							
Hitch	Check hitch bolts	to 76Nm. Lubricate with high temp bearing grease					
Handbrake	Inspect and adjus	t handbrake					
Brakes	Inspect and adjus	t brakes					
Wheel nuts		Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)					
Tyres	Inspect for abnorr	Inspect for abnormal wear and damage					
General fixings	Ensure no loose f	ittings					
Date:	Date: Service Person:						
Dealer Stamp:							

6 MONTHS / 5,000KM SERVICE							
Hitch	Check hitch bolts	s to 76Nm					
Handbrake	Check cable and	adjust if necessary					
Hand winch	Check brake fun	ction and webbing					
Suspension	Lubricate and ch	eck bushes for excess movement. Torque bolts to 190Nm					
Brakes	Inspect and adju	st. Check lining thickness and drum wear					
Wheel bearings	Remove, clean a	and re-lubricate. Inspect for wear and replace if necessary					
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims), (200Nm 14mm studs steel rims)						
Tyres	Check for damage and pressure						
Lights	Check all lights a	Check all lights are functioning					
Battery	Check terminals	and voltage at full charge					
Seals	Check condition	and correct latch/lock adjustment for correct 30-50% compression					
General fixings	Check all structu	ral fixing are secure.					
Date:		Service Person:					
Dealer Stamp:							

12 MONTHS / 10,000KM SERVICE						
Hitch	Inspect for damage and lub	ricate. Check bolt Torque to 76Nm				
Jockey Wheel	Inspect for condition and op	eration				
Hand winch	Check brake function and w	ebbing				
Suspension	Lubricate and check bushes	for excess movement. Torque bolts to 190Nm				
Brakes	Inspect and adjust. Check li	ning thickness and drum wear				
Wheel bearings	Replace bearings, seals and Replace split pin.	l lubricate. Check stub axle condition and wear.				
Wheel Nuts	Inspect condition and torque (140Nm 14mm studs alloy r	e to 125Nm (12mm studs) ims) (200Nm 14mm studs steel rims)				
Tyres	Check for damage and pressure					
Lights	Check all lights are function	ing				
Battery	Check terminals and voltage	e at full charge				
Seals	Check condition and correct	latch/lock adjustment for correct 30-50% compression				
General fixings	Check all structural fixing are secure.					
Date:	Service P	erson:				
Dealer Stamp:						

18 MONTHS / 1	5,000KM SER	VICE	CHECKED					
Hitch	Inspect for dama	age and lubricate. Check bolt Torque to 76Nm						
Jockey Wheel	Inspect for cond	tion and operation						
Hand winch	Check brake fun	ction and webbing						
Suspension	Lubricate and ch	eck bushes for excess movement. Torque bolts to 190Nm						
Brakes	Inspect and adju	st. Check lining thickness and drum wear						
Wheel bearings	Replace bearing Replace split pin	Replace bearings, seals and lubricate. Check stub axle condition and wear. Replace split pin.						
Wheel Nuts		Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)						
Tyres	Check for dama	Check for damage and pressure						
Lights	Check all lights a	are functioning						
Battery	Check terminals	and voltage at full charge						
Seals	Check condition	and correct latch/lock adjustment for correct 30-50% compression						
General fixings	Check all structu	ıral fixing are secure.						
Date:		Service Person:						
Dealer Stamp:								

24 MONTHS / 2	0,000KM SERVICE	CHECKED	
Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		
Jockey Wheel	Inspect for condition and operation		
Hand winch	Check brake function and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm		
Brakes	Inspect and adjust. Check lining thickness and drum wear		
Wheel bearings	Replace bearings, seals and lubricate. Check stub axle condition and wear. Replace split pin.		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)		
Tyres	Check for damage and pressure		
Lights	Check all lights are functioning		
Battery	Check terminals and voltage at full charge		
Seals	Check condition and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structural fixing are secure.		
Date:	Service Person:		
Dealer Stamp:			

Hitch	Inspect for dama	age and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and	d adjust if necessary		
Hand winch	Check brake fun	nction and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm			
Brakes	Inspect and adjust. Check lining thickness and drum wear			
Wheel bearings	Remove, clean a	Remove, clean and re-lubricate. Inspect for wear and replace if necessary		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)			
Tyres	Check for dama	Check for damage and pressure		
Gas System	Leak, test, check	k stove operation and hose/coupling condition		
Battery	Check terminals	and voltage at full charge		
Seals	Check condition	and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structu	ural fixing are secure.		
Date:		Service Person:		

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36 MONTHS / 3	30,000KM SERVICE	CHECKED	
Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		
Jockey Wheel	Inspect for condition and operation		
Hand winch	Check brake function and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm		
Brakes	Inspect and adjust. Check lining thickness and drum wear		
Wheel bearings	Replace bearings, seals and lubricate. Check stub axle condition and wear. Replace split pin.		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)		
Tyres	Check for damage and pressure		
Lights	Check all lights are functioning		
Battery	Check terminals and voltage at full charge		
Seals	Check condition and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structural fixing are secure.		
Date:	Service Person:		
Dealer Stamp:			

42 MONTHS / 3	35,000KM SER	VICE	CHECKED	
Hitch	Inspect for dama	age and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and	d adjust if necessary		
Hand winch	Check brake fun	oction and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm			
Brakes	Inspect and adjust. Check lining thickness and drum wear			
Wheel bearings	Remove, clean a	and re-lubricate. Inspect for wear and replace if necessary		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)			
Tyres	Check for damage and pressure			
Gas System	Leak, test, check	Leak, test, check stove operation and hose/coupling condition		
Battery	Check terminals	and voltage at full charge		
Seals	Check condition	and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structu	ural fixing are secure.		
Date:		Service Person:		
Dealer Stamp:				

48 MONTHS / 4	0,000KM SERVICE	CHECKED	
Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		
Jockey Wheel	Inspect for condition and operation		
Hand winch	Check brake function and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm		
Brakes	Inspect and adjust. Check lining thickness and drum wear		
Wheel bearings	Replace bearings, seals and lubricate. Check stub axle condition and wear. Replace split pin.		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)		
Tyres	Check for damage and pressure		
Lights	Check all lights are functioning		
Battery	Check terminals and voltage at full charge		
Seals	Check condition and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structural fixing are secure.		
Date:	Service Person:		
Dealer Stamp:			

CHECKED	ITHS / 45,000KM SERVICE
	Inspect for damage and lubricate. Check bolt Torque to 76Nm
	ke Check cable and adjust if necessary
	Check brake function and webbing
	Lubricate and check bushes for excess movement. Torque bolts to 190Nm
	Inspect and adjust. Check lining thickness and drum wear
	earings Remove, clean and re-lubricate. Inspect for wear and replace if necessary
	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)
	Check for damage and pressure
	em Leak, test, check stove operation and hose/coupling condition
	Check terminals and voltage at full charge
ession	Check condition and correct latch/lock adjustment for correct 30-50% compression
	ixings Check all structural fixing are secure.
	Service Person:
	Service Person:

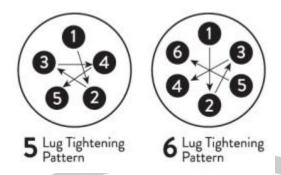
60 MONTHS / 5	0,000KM SERVICE	CHECKED	
Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		
Jockey Wheel	Inspect for condition and operation		
Hand winch	Check brake function and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm		
Brakes	Inspect and adjust. Check lining thickness and drum wear		
Wheel bearings	Replace bearings, seals and lubricate. Check stub axle condition and wear. Replace split pin.		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)		
Tyres	Check for damage and pressure		
Lights	Check all lights are functioning		
Battery	Check terminals and voltage at full charge		
Seals	Check condition and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structural fixing are secure.		
Date:	Service Person:		
Dealer Stamp:			

66 MONTHS / 5	55,000KM SER	VICE	CHECKED	
Hitch	Inspect for dama	age and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and	d adjust if necessary		
Hand winch	Check brake fun	nction and webbing		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm			
Brakes	Inspect and adjust. Check lining thickness and drum wear			
Wheel bearings	Remove, clean a	Remove, clean and re-lubricate. Inspect for wear and replace if necessary		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)			
Tyres	Check for damage and pressure			
Gas System	Leak, test, check	Leak, test, check stove operation and hose/coupling condition		
Battery	Check terminals	and voltage at full charge		
Seals	Check condition	and correct latch/lock adjustment for correct 30-50% compression		
General fixings	Check all structu	ural fixing are secure.		
Date:		Service Person:		
Dealer Stamp:				

Torque Settings

Wheel Nuts

Wheel nuts should be tightened to correct torque using a torque wrench. Never trust a "rattle gun" as these may over or under tighten. A quality torque wrench will ensure nuts are tightened correctly. It's important to remember to check your wheel nuts at 50km, 500km and 1000km and periodically thereafter. The correct torque setting of 125Nm for 12mm studs, 140Nm for 14mm studs and alloy wheels and 200Nm for 14mm studs with steel rims.



Hitch

The high tensile bolts securing your hitch should be tightened to 76Nm. These should be checked at 5000km intervals or 2500km in harsh off-road conditions.

Trailing Arm Pivot Bolts

The pivot bolts are a high tensile steel. The service interval for these bolts is 5000km under normal use and 2500km for harsh off-road conditions. During travel they should be inspected daily to ensure they have not rotated or become damaged. Correct torque is 190Nm

Brakes and Handbrake - Electric

Features

Your trailer is fitted with electric brakes that require a brake controller that can be operated from the driver's seat.

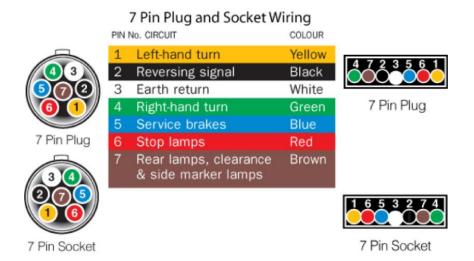
- 1. Manual adjusted to provide the correct braking capability for varying road, off-road and load conditions.
- 2. They can be modulated to provide more or less braking force, thus easing the brake load on the towing vehicle.
- 3. There is very little lag time between the moment the tow vehicle's brakes are actuated and the moment the trailer brakes are actuated.
- 4. They can provide some braking independent of the tow vehicle in the event of an emergency.

Operation

When electrical current is fed into the system by the controller, it activates the electromagnets in the brakes. These electromagnets are energized and are attracted to the rotating surface of the drums which moves the actuating levers in the direction that the drums are turning thus applying pressure from the brake linings to the drum surface.

Trailer Plug Wiring

The following diagrams outline the correct wiring for 7 pin plugs



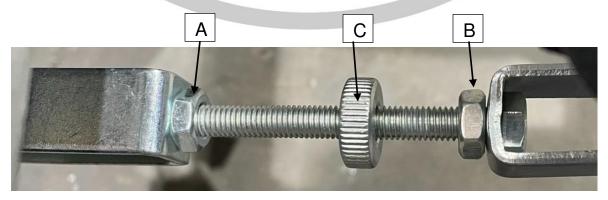
Hand Brake

Parking brakes are mechanically operated by cable means. The cable attachment occurs outside of the brake backing plate. Cable force applied to the parking lever creates a torque through the pivot pin and cam assembly. Torque transferred to the parking cam results in a spreading force between the primary and secondary shoes. The shoes in turn, move towards the drum until contact is made. Friction generated between the drum and lining contact surface results in parking brake capability.

Use the cable adjuster to give sufficient tension to be able to set the handbrake lever on the last two notches of the coupling or handbrake is 1/3 raised when unladen. This needs to be checked again when the trailer or caravan is loaded. If the cable is too tight, the brakes will be applied as the axle moves backward under spring deflection.

Hand Brake Adjuster

To adjust the handbrake cable tension release locknuts A and B in the diagram Handbrake Adjuster 1 below. To tighten the handbrake cable turn the adjuster wheel C in a clockwise direction. Once adjusted retighten lock nuts and test. Always ensure that wheels turn freely when handbrake is off. Overtightened cables can cause brakes to drag and damage the brake linings.



Correct Use of Your Electric Brakes

Your trailer brakes are designed to work in synchronization with your tow vehicle brakes. Never use your tow vehicle or trailer brakes alone to stop the combined load. Your trailer and tow vehicle will seldom have the correct amperage flow to the brake magnets to give you comfortable, safe braking unless you make proper brake system adjustments. Changing trailer load and driving conditions, as well as uneven alternator and battery output, can mean unstable current flow to your brake magnets. It is therefore imperative that you maintain and adjust your brakes as set forth in the controller manual, use a properly modulated brake controller and perform the synchronization/adjustment procedure recommended by the brake controller supplier.



Important Safety Notice

Proven and in some cases approved service methods and correct repair procedures are essential for the safe, reliable operation of the brakes, suspension and axles as well as the personal safety of the individual doing the work. This manual intends to provide general directions for performing service and repair work with tested, effective techniques. By following these guidelines, it will help assure

reliability. The numerous variations in procedures, techniques, tools and parts for servicing axles, as well as in the skill of the individual doing the work will determine outcomes. This manual cannot possibly anticipate all such variations nor provide advice or cautions as to each. Accordingly, anyone who departs from the instructions provided in this manual must first establish that they neither compromise their personal safety nor the vehicle integrity by their choice of methods, tool's or parts.

*If at all in doubt please refer all repairs and maintenance to a suitably qualified or experienced mechanical repairer.

*Eagle Outdoors accepts no liability for personal injury, loss or damage resulting from incorrect applications, methods and failure to perform maintenance safely and correctly.

Brake Adjustment

Brakes should be adjusted (1) after the first 300 km's of operation when the brake shoes and drums have "seated," (2) at 5000 km's intervals, (3) or as use and performance requires. The brakes should be adjusted in the following manner:



Never crawl under your trailer unless it is resting on properly placed jack stands. Do not place supports on any part of the suspension system and use the designated jack point or under the spring base plate to jack trailer.

Brake Cleaning and Inspection

Your trailer brakes must be inspected and serviced at 5000km or more often as required by use and performance. Magnets and shoes must be changed when they become worn or scored to avoid inefficient vehicle braking.

Brake Lubrication

This should only be done by qualified persons.

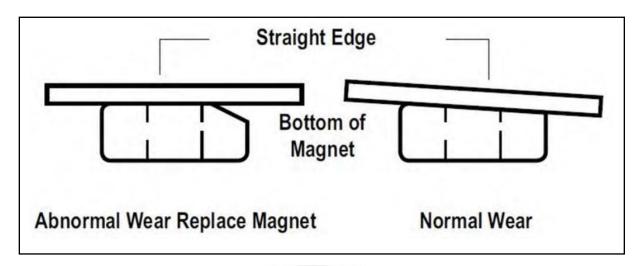


Caution

Do not get grease or oil on the brake linings, drums or magnets.

Magnets

Your electric brakes are equipped with high quality electromagnets that are designed to provide the proper input force and friction characteristics. Your magnets should be inspected and replaced if worn unevenly or abnormally.



Even if wear is normal as indicated by your straightedge, the magnets should be replaced if any part of the magnet coil has become visible through the friction material facing of the magnet. It is also recommended that the drum armature surface be refaced when replacing magnets.

Magnets should also be replaced in pairs - both sides of the axle. Always use genuine Eagle Outdoors OEM parts.

Shoes and Linings

A simple visual inspection of your brake linings will tell if they are useable.

Replacement is necessary if the lining is worn (to within 1.5mm or less), contaminated with grease or oil or abnormally scored or gouged. It is important to replace both shoes on each brake and both brakes of the same axle. This is necessary to retain the "balance" of your brakes. Be sure to replace your shoes only with genuine Eagle Outdoors parts available from our outlets.

Corrosion Prevention

It's important to take steps to prevent corrosion of parts on your trailer to extend the service life. Many fittings are high tensile and therefor zinc plated. Fittings such as this can benefit from additional protection. Some helpful products to prevent corrosion are "Lanotec", "WD40", "Inox" and similar products. These can be spray applied and do a very good job of protecting metal surfaces, particularly in corrosive and aggressive environments near the ocean and inland waterways.

Often, we take our campers and caravans to salt water environments. Driving through salt water is never recommended as the residual chloride ions accelerate corrosion greatly. If you are camping near or driving through these kinds of environments we highly recommend that your trailer be thoroughly cleaned after use. Flushing the chassis and washing and rinsing your trailer is important.

Electrical Systems

Chargers & Inverters

Your camper has a Redarc BMS1230S with Red Vision display fitted, this will control charging to your batteries from mains power, solar panels or Anderson plug charging from your vehicle. It has a Bluetooth function that you can pair to your phone and constantly monitor charging and discharging of the batteries. There is also a 300W invertor fitted. The invertor will allow you to run a small 240V appliance off your batteries. Care must be taken when using the invertor, never leave it switched on when not in use, and always be aware of the excess power you can consume when using the invertor.



Caution

Electrical devices can be dangerous. Under no circumstances should repairs and modifications be attempted by unqualified or untrained persons. Eagle Outdoors accepts no liability for any personal injury, damages or loss as a result of unqualified or untrained persons repairing or altering the electrical systems on this product. If in doubt call your local Eagle Outdoors outlet or phone: 1300 500377

Battery Care

Your camper is fitted with 2 x 135ah BSL Lithium Batteries with in-built BMS. Storage type batteries require periodical maintenance to perform at their peak and extend their service life. The following is an outline on how to gain the best performance and lifecycle from the battery fitted in your camper:

- Always use a quality charger that caters to the voltage requirements of an Lithium battery. Absorption charging is from 14.6v to 14.8v, float charging is from 13.2v to 13.8v.
- Never leave your battery stored at low volts. Before storing your camper ensure that battery/s is fully charged and all power is disconnected/switched off.
- When possible, leave the battery connected to a smart charger that will cycle and maintain the battery during storage. If this isn't possible check and charge at regular intervals to prevent excessive discharge.
- Never use unregulated solar power direct to your batteries.
- When in use try to keep your battery at or as close to maximum capacity as possible.
- Allowing your battery voltage to drop below 11.5V can permanently damage its performance and reduce its service life.

BSLBATT Lithium Battery Bluetooth App

This battery has Bluetooth communication function. It connects to the mobile phone Bluetooth function to communicate with the Bluetooth device. The Bluetooth device and the BMS in the battery can be communicated. Users can read the battery status information directly through the mobile phone.

Main Status Information:

- Real time SOC
- Current Voltage
- Current Working Current (A)/ Power (W)
- Temperature
- Alarm Information
- Version Information

Install Software – Search 'Smart BMS' in the app store then download the app.



Preparation before Use:

- 1. Open the mobile phone Bluetooth function.
- 2. Confirm that the battery is working normally and find the Bluetooth number on the top cover of the battery.





Bluetooth Connection.

- 1. Open the App
- 2. Single cell, Parallel, Series. Three Modes
 - **a.** Single Cell: to see a single battery data. Check the battery status information when the use of a single battery is used.
 - **b.** Parallel: to see the battery status information after multiple batteries. The SOC, voltage, current and power of the main interface of this mode are the overall state information after parallel batteries connected.
 - **c.** Series: To see the battery state information after multiple batteries. The SOC, voltage, current and power displayed on the main interface of this mode are the overall state information after series batteries connected.





1. Single Cell

- a. Select the number of the correct battery
- **b.** Red '+' representative is to be selected, and the grey '-' represents the selected.
- c. You can only choose one, you can't choose more.
- **d.** Click the encoding to enter after selection.

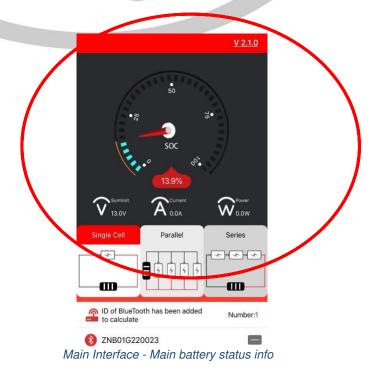




Click the main interface

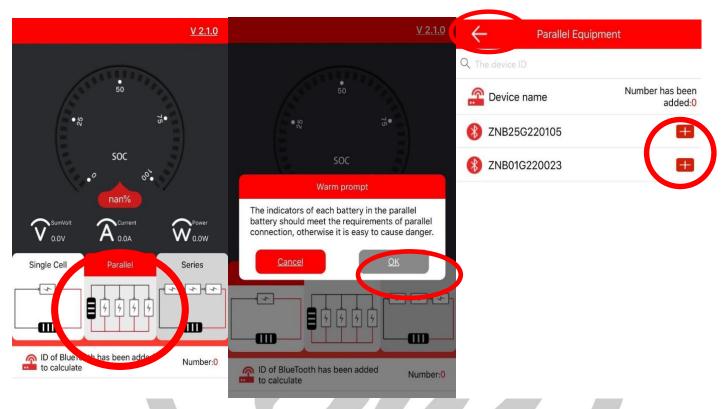


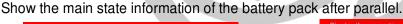
Battery Status Detail

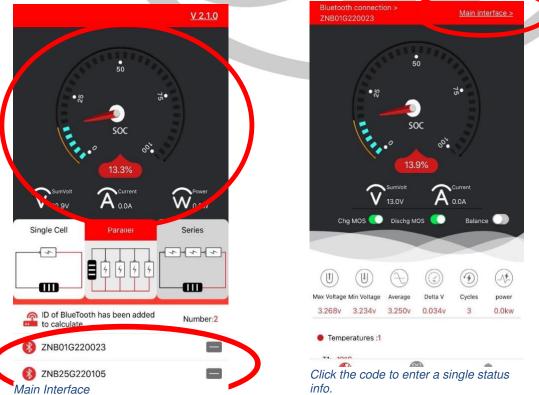


2. Parallel

- **a.** Select the number of the correct battery, be sure to confirm that the battery has been connected in parallel and normal work.
- **b.** Red '+' representative is to be selected, and the grey '-' represents the selection. Choose a maximum of 6 units, cannot be more.
- **c.** After Selecting, click the arrow in the upper left corner to enter the main interface.

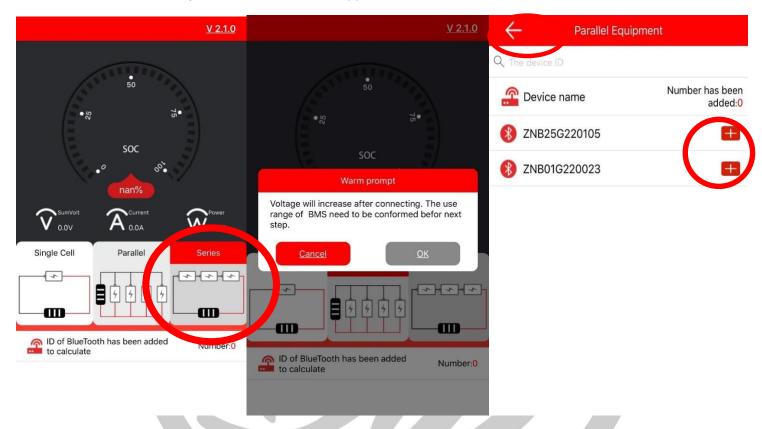






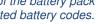
3. Series

- a. Select the number of the correct battery, be sure to confirm the battery is connected in the series and working normally.
- b. Red '+' representative is to be selected, and the grey '-' represents the selection. Choose up to 2, only supports 2 batteries in the series.
- **c.** After selecting, click the arrow in the supper left corner to enter the main interface.



Show the main information of the battery pack after series.



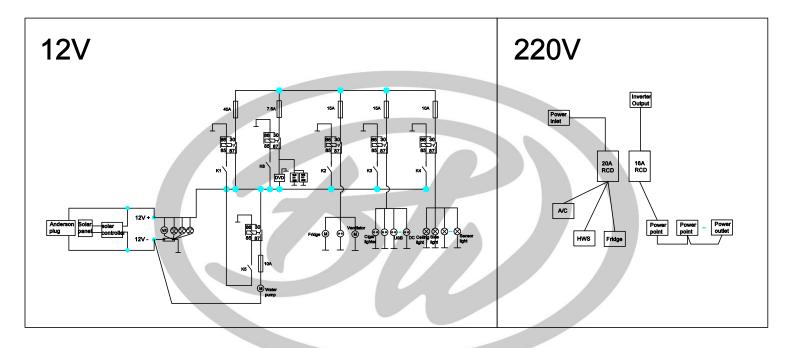




Solar Panel

Your camper is fitted with 3 x 100W Roof Mounted Solar panels. They are wired to the Redarc DC Charger mounted inside the camper, which will control and regulate charge to the batteries. The Solar panel will trickle charge the battery when in full sun. Constant checking of the solar panel is required and monitoring of the Battery Voltage when using appliance such as your Fridge or 12V Lights.

12 Volt Wiring Diagram



Control Panel

Control panel with functions indicated.

- 1. LED Voltmeter
- 2. 12-volt Isolation Master switch
- 3. 50A Anderson Circuit Breaker Switch under bed
- 4. Lights Main Switch & Breaker
- 5. Water Pump Main Switch & Breaker
- 6. DC Power Main Switch and Breaker
- 7. Water tank Gauges

Gas Hot Water System

Your Camper is supplied with a Girard Instant Gas Hot Water System built in and plumbed to all taps.

Water Pump

The Seaflo water pump, when switched on, is activated by the release of pressure at the tap and will pump water continuously until the tap is turned off and pressure restored. Should the pump activate while one of the taps is turned off this could indicate a leak and require investigation and rectification.

Mains Water

Your camper has a mains water inlet on the drivers side rear corner of the camper. You can connect a freshwater hose to this fitting and it will give water pressure from a mains source, direct to the taps. The mains water system bypasses the water tanks, so it does not fill it. It also bypasses the water pump. There is a pressure reducer fitted behind the filler nozzle to bring the pressure back to no more than 350kpa. The water pump switch should be in the off position when connected to mains water.

Connecting the Gas

Your camper is fitted with plumbed gas with the regulator and gas bottle placement at the front of the trailer. Always ensure gas bottles are serviceable and within the 10 year service life. This information is stamped on the bottle collar. Your kitchen stove is fitted with electric ignition, simply push the relevant burner knob and the ignitor with start working. When the burner ignites hold the button down for 5 seconds then release. **NOTE: It will take up to a minute or so for the gas to purge air from the line and flow through the burners.**

Kitchen

To open the kitchen first, open the access door, lift the dead bolts on each side of the kitchen and lock in the open position. Use the handle to slide the kitchen out into the fully extended position. Under the kitchen is a drop-down leg, use the adjusters to set the leg height position the move the leg vertical under the kitchen. The hot and cold water plumbing, gas hose, piezo for stove and wiring for the light is connected automatically, no need to connect any hoses or wires. Turn the gas bottle on and allow at least a minute for the gas to flow through to the burners, before trying to use the stove. Pull the wastewater hose out from under the sink and place in a bucket to catch the sink wastewater.

^{*} Voltmeter shows battery voltage while idle and charge voltage whilst charging.

Pre-Trip Checklist

Working from a checklist will help avoid forgetting important tasks particularly with regard to safety. Individual camper set ups may differ depending on tow vehicle and any modifications made by the owner. The table below is for guidance only.

Pre-He	ook Up
Water Tanks full & locking cap secure	All roof latches and door locks secure
Bearings checked and serviced at last service	All cables and plugs are in serviceable condition
Hitch greased and checked	Tyres in serviceable condition and correct pressure
Wheel nuts tight and torqued to correct tension	Bearing caps secure
All external fittings secure	Stabiliser legs working & secure in travel position
Gas bottles and jerry cans secured	Stabiliser leg handle in trailer
Chains and shackles in serviceable condition	Ensuite roof hatch down
Entry Step to Van is secured away	Awning is fully rolled back and secure
Hooked Up	to Vehicle
Hitch secured to receiver all pins and locks engaged	Trailer lights plugged in
Anderson plug connected	All cables clear of possible damage
Safety chains and shackles connected to car	Chains are crossed and at correct length
All lights working	Trailer brakes engaging when brakes applied
	Trailer is sitting at correct level
Jockey wheel is raised and locked	Do a walk around and check visually

Useful Accessories

Levelling Blocks

These are excellent for levelling your trailer on set up. Stabilizer legs are not meant for correcting the trailer angle, they are there to keep it stable when people are in it. Using levelling blocks will extend the service life of the stabilizer legs and make set up much safer and faster. See below images.





Wheel Chocks

Wheel chocks are an important safety device when leaving your trailer parked on even the slightest incline. On level ground it is recommended to chock both sides of the wheel. On a hill you should chock the wheels on the downhill side ensuring the chocks



Covers

Hard floor campers and caravans will benefit greatly from a storage cover. Perishable fittings such as rubber seals and plastic will be protected from UV radiation and harsh outdoor weather. Paint and gelcoat finishes will oxidize less and this will extend the service life of these finishes.

Stone Protection

There are proprietary devices available that assist in protecting your trailer from stones thrown up by the tow vehicle. Rock Tamer and Stone Stomper are two of the most commonly used products for this protection.





Trouble Shooting

Electrical

No 12 volt power	Main Isolator in off Position
	Flat battery
	Faulty battery
	Main circuit breaker tripped
	Loose battery terminals
	Damaged wiring
Battery not Charging	Faulty Battery
	No mains power
	Faulty Charger
	Charger has overheated
Lights or plugs not working	Tripped circuit breaker
	Poor connection
	Circuit switch off
No power to fridge	
Indicators or parking lights not working	Poor connection at trailer plug
Inverter not powering	Poor connection
	Main 12v switch is off
	Flat battery
	200A main circuit breaker
	150A breaker to Inverter
No Inverter Output	See Inverter trouble shooting page
Circuit breaker tripping during use	Overloading
	Faulty Appliance
Battery not charging from anderson plug	Faulty Connection at plug
	50A circuit breaker tripping
	BMS

Water

Problem	Possible Cause	Remedy
	No power from control panel	Check switch and circuit breaker
	Flat Battery	Charge battery
Pump not working (no noise)	Faulty pressure switch	Replace pump, Contact dealer for replacement
	Bad electrical connection	Check connections with multimeter or test light
Pump working but no water flow	Airlock in water lines	Turn on tap and hold finger over nozzle for 5 seconds and release. Repeat several times. If this fails, fill water tank and use mains pressure to pressurise tank
Pump working but no water flow	Water tank is empty	Fill water tank
	Kinked hose	Check hoses ensuring none are fouled
	Damaged / worn pump diaphragm	Repair or replace pump

Gas

Problem	Possible Cause	Remedy
	Gas bottle empty	Fill gas bottle
	Gas bottle not turned on	Turn on valve on gas bottle
Cooker not igniting	Gas isolator not turned on	Turn on isolator under camper
	Regulator blocked	Check regulator is not blocked with dirt, wasps nests etc
	Kinked hose	Check hose is not twisted and kinked
Remember that first use after connecting gas will take a little while for the gas to purge the line to the cooktop. Hold the control knob down for up to 4 minutes		

Brakes

Problem	Possible Cause	Remedy
No Brakes	Open Circuits	Find and correct
	Severe under adjustments	Adjust brakes
	Faulty controller	Test and correct/replace
	Short circuits	Find and correct
Weak Brakes	Great or oil on linings or magnets	Clean or replace
	Corroded connection	Clean or replace connectors
	Worn lining or magnets	Replace
	Scored or grooved brake drums	Machine or replace
	Poor Synchronization	Correct Controller setting
	Poor Brake adjustment	Adjust Brakes
	Glazed brake Linings	Re-burnish or replace linings
	Overloaded trailer	Correct loading. Check at weighbridge
Brakes Locking	Poor Synchronizing with controller	Adjust controller
	Poor Adjustment	Adjust brakes as per instructions
	Faulty controller	Test and rectify or replace
	Loose, bent or broken components	Inspect and replace components
	Out-of-round brake drums	Machine or replace
	Insufficient wheel load (dual Axle)	Correct trailer level to even load
Intermittent brakes	Faulty controller	Test and Correct
	Broken Wires	Repair or replace
	Loose connections	Find and repair
	Faulty ground	Find and repair

Handy Tips Driving Off Road

Towing your camper off road adds many dimensions to the driver's responsibilities and factors to be considered. When travelling remote always carry sufficient spare parts and supplies to cater for a "worst case scenario." Always perform suggested preventative maintenance and daily checks. Minimum trailer spares would consist of:

- Wheel Bearings
- Seals
- · Wheel studs and nuts

Wildlife

Australian outback roads are notorious for wandering stock and native wildlife which can be a serious danger to motorists. Due care must always be taken, and the possibility of an animal strike considered in regard to speed and time of day you are driving. Most animals in the outback are more active at night which greatly increases the likelihood of an animal strike between dusk and dawn. Towing a camper or caravan increases braking distance and has inherent risk associated with aggressive and defensive maneuvering to avoid a collision.

Corrugations & rough road

Corrugations are arguably the most taxing and damaging road conditions to vehicles. Constant vibration can loosen vehicle components and as a stress dynamic to vehicles and drivers well in excess of normal road driving. In these conditions take regular breaks to reduce driver fatigue and fatigue to vehicles. Shock absorbers can become extremely hot on corrugated roads which can cause damage to seals resulting in shock absorber fade (reduction in damping effect) and in extreme cases failure of the seal completely. On rough and corrugated roads, it's important to adjust tyre pressures on your car and trailer to soften the effect and extend the contact patch of the tyre on the road.

Bulldust

This phenomenon is common on outback roads. Fine dust can settle in large holes obscuring them from unsuspecting drivers. It is important to reduce speed in these conditions and drive carefully to avoid the possibility of damage or an accident.

Sand

When driving on sand it is important to lower tyre pressures on both the vehicle and trailer. By lowering the pressure, you will effectively create a larger footprint for the tyre which will reduce how far it sinks in sand. Sand shape and compaction will vary around the country so necessary reduction in tyre pressure will vary. Always keep in mind the lower the pressure the lower the speed you should travel. When lowering pressures to 20psi or less you also increase the chance of rolling the bead of the tyre off the rim so sharp turns should be avoided. When driving these conditions, it is strongly advised you carry a tyre pressure gauge/deflator and a portable compressor to reinflate when back on the highway.

Causeways

Outback roads often have causeways to control water runoff and prevent erosion of the road. When travelling at speed these causeways can be a danger to motorists and vehicles so due care should be taken to reduce speed when approaching them. In very remote areas these often won't have signposts so special care should be taken in these areas.

Creek and River Crossings

These crossings can be extremely dangerous even in low water levels and should never be attempted in times of even mild flooding. Towing a camper or caravan greatly elevates the risk in this situation and should never be attempted unless you are completely assured it is safe to do so. If there is any doubt about access in flood prone areas, you should contact the local authorities to find out conditions and dangers before you proceed.

Protecting the environment

Remote areas and National Parks are sensitive areas and all precautions should be taken not to damage tracks, interfere with flora and fauna and not to contaminate the area. In sensitive areas it is advisable to use grey water tanks and contained toilets. If your camper or caravan isn't fitted with such, both toilets and grey water tanks are available as portable self-contained units. Always store food, food scraps and rubbish in secure containers, native animals can be quite resourceful in scavenging for scraps. Dingos have been known to open locked eskies to get to food so don't chance it, always secure these items when travelling.

Trip Planning

When planning remote trips always consider where you will resupply for fuel, food and water. Some remote fuel stations may run out of fuel during busy periods or times when large fuel trucks are unable to access the area due to road conditions and closures or simply close outside of the season. Always check conditions and availability of fuel before setting out to remote areas.

Shire Councils

There are many resources available for planning your trip away. Every state has a tourism website as so regional councils which will give you extensive information on camping sites, things to do and see, events happening in the area and contact information for booking sites or activities.

National Parks

Each state's national parks organization have a website to assist in finding campsites and provide specific information about each parks unique qualities. As a planning resource these are extremely good. All contact information will be available.

Wikicamps

This smartphone app is an excellent resource for finding all kinds of camping across Australia. If you are looking for free camping you won't find a better resource. There is an app add on that even assists in finding fuel stops with user updates on fuel prices.

Facebook

These days there are numerous Facebook groups dedicated to travelling with campers and caravans and also groups dedicated to travel in specific areas. The area specific groups have many locals as members and are a great way to find out local track closures, conditions and research the area in general.

COVID Safe

Staying safe when camping and caravanning:

- Use of fitted face masks outdoors is required if you are unable to stay further than 1.5 metres away from people you don't live with, such as at public transport stations, outdoor markets, walkways and thoroughfares.
- Distances may not be marked, so make sure you keep at least 1.5 metres between you and the next site.

Use of Cordless drills and Drivers on Stabiliser Legs

Winding stabilizer legs up and down can be a time-consuming job and not a fun one on a hot day. To make the job faster and easier why not use a cordless drill?

When doing this it is advisable to use a cordless drill with an adjustable clutch for two reasons:

- 1. It will prevent you over tightening the stabiliser and damaging the gears or breaking the shear pins inside.
- 2. A clutch will make it safer as the drill will be less likely to spin in your hands when the stabiliser hits the ground

To transform your drill, you will need an adapter to suit the socket drive you are using. You'll also need a 19mm socket to attach to the stabilizer drive.

Always remember not to over tighten stabilizers to avoid damage to the gears or roll pins.

For campers that have a more recessed stabilizer you may need a further socket extension to each the hex drive on the stabilizer as caravans being wider extend beyond the chassis mount for the legs.



Lock and Seal Maintenance

Regular maintenance on the locks and seals on your camper or caravan is important to keep dust and water ingress to minimum. Making these adjustments is easy if you follow these steps.

Tools: You will need a 10mm spanner

To tighten a lock and get more seal compression:

- 1. Undo the lock nut
- 2. Screw the bolt counterclockwise to lengthen it.
- 3. Close the door and check the compression
- 4. Tighten lock nut

The compression on the seal should be between 30 and 50%, this will ensure there is good surface contact and it will minimize water and dust getting by the seal. Check seals on doors make good contact around the entire edge of the doors and haven't worked their way out of the corners leaving a gap.

When you're satisfied the seals are making good contact wipe them down with a rubber protectant to keep them soft and pliable.

Any rubbers that are torn or perished should be replaced.

Warranties

For all warranty policies inclusions and procedures please refer to your original sales contract.

