

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.

bluewatercampers.com.au 💊 1300 594 000

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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	
Newcastle	Ph 02 4933 3766
391 New England Hwy	
Rutherford NSW 2320	
VICTORIA	Ph 03 5945 5344
Melbourne	
31 Commercial Drive Way	
Pakenham, VIC 3810	
WESTERN AUSTRALIA	Ph 08 6244 2077
Perth	
46 Stebbing Road	
Maddington, WA 6109	
SOUTH AUSTRALIA Adelaide	Ph 08 8522 1141
U3/27 Theen Ave,	
Willaston, SA 5118	
Willasion, SA 3110	
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 Lachlan	2021 Model Only
Color	Gun Metal Grey, Black, White
Trailer Measurements (towing Size)	5.49m long x 1.9m wide x 1.6m tall (excl Cargo Rack)
Fridge Slide Measurements	980mm Long x 590mm High x 540mm Wide
Water Tank	1 x 110LT and 1 x 50LT
Structure	Front and Top Thick Checker Pate Panel (To Protect Trailer). Full 70 x 50 x 3.0mm RHS Chassis and cross beams
Drawbar	120 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 Lovells coil spring
Brakes	12" Holroyd electric brake system, and adjustable hand brake
Wheels & Tyres	4 x Brand New 16" (6 Stud Pattern 139.7PCD Zero Offset) Alloy wheels with All 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 1600kg Excl rack
Aggregate Trailer Mass (ATM)	2400kg
Ball Weight (At Tare)	120kg
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, Slide out Food Prep, Storage Drawer, Dish Rack
Lights	LED Submersible Taillights and Number-Plate Light
Stabilizer Legs	4 x Heavy Duty Adjustable Drop-Down
	1

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	Outer Bearing 15123	Seal: 33940
Cone: 25520	Cone: 15245	

Hitch

Your camper is fitted with an ADR compliant Cruisemaster DO35 V3Plus Off-Road hitch. Cruisemaster DO35 V3. 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.



HITCHING UP WITH THE DO35

STEP 1

Ensure the Tow Pin Cover is removed from Tow Pin. Step 2

The Tow Pin and Universal should be free of sand, dirt and foreign objects. Lightly lubricated to ensure premature wear is avoided.

Step 3

Set the coupling to the unlocked position. Do so by pushing down on the Red Lock Button while simultaneously pushing back the Locking slide plate towards the Red Lock Button. When in position the Lock Button will spring back and pressure will be removed from the Locking Plate. At this stage in the unlocked position the viewing port in the centre of the locking mechanism should be clear.

Step 4

Raise height of trailer so the coupling is above the vehicle Tow Pin height by adjusting Jockey Wheel or Stand.

Step 5

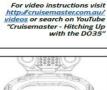
Align Coupling over Tow Pin by moving either vehicle or trailer, then lower coupling onto tow pin using Jockey Wheel or Stand. Ensure that the Universal is fully seated on the Tow Pin; the Tow Pin will protrude through locking plate as visible via the view port.

Step 6

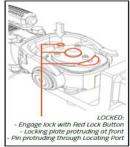
Once in position Push the same Red Lock Button used in Step 3 to reset the locking plate into the locked position. The Locking Plate will slide forward into place simultaneously to the button push.

Step 7

Secure the Checklock Cap, the cap will emit an audible snap when secured correctly.







Items supplied with your trailer

You should have 3 canvas bags consisting of the following items (If you chose all canvas options)

- 1. Small grey canvas section, this is the side skirt canvas, and is placed along the outside kitchen side wall of the trailer, to close off the underside. (Standard inclusion)
- 2. Large grey canvas section, this is the annex roof. (Standard inclusion)
- 3. 2 x Navy and Grey canvas sections, 1x side kitchen wall with window and 1 x front wall. (Option)
- 4. An annex floor made from heavy duty Ripstop PVC. (Option)
- 5. A Grey PVC Ensuite Room, which zips on to (4) the drawbar end wall of the annex. (Standard inclusion)
- 6. A small grey PVC floor for the ensuite room. (Standard inclusion)

Also included are a separate canvas Peg bag, containing up to 25 pegs, 12 rope sets and 12 rope spring protectors. There are high Vis covers that can be used on the spring, to make the ropes visible day and night.

The poles supplied in camper:

- 2a 2 x extendable poles with C Clips on each end. These are roof spreader bars to be used in the annex on the roof as a support in rough weather, between the roof poles excluding the extended slide out section.
- 5a 4 x longer extendable poles with a spigot on each end. These poles are used as the annex outer wall uprights.
- **3a** 2 x long extendable poles with a white plastic eyelet hole on one end and a hook on the other. These are the roof poles for the annex.
- 7a 2 x 2 piece long extendable poles with a white plastic eyelet hole on one end and a hook on the other. These are the roof poles for the annex. These are supported from the camper body as well.
- 4a 5 x extendable poles with a flat eyelet hole on each end. These are used as supports along the front of the annex, and are placed on top of each of the 5a poles. 1 x is used as an ensuite spreader pole, 2 x are used for window spreader poles on the larger side windows.
- 6a 2 x Long Extendable poles with a C Clip on one end and rubber foot at the other end. These are used as extra support poles in the main annex, if you encounter some strong winds.
- **7b** 2 x short 2 piece extendable poles with a spigot on one end. These are used on the back side window awning. These are supported from the camper body as well.
- 4b 1 x Short extendable poles with a flat eye on each end is used for the annex frame work at the kids end.
- 5b 4 x extendable poles with a spigot on one end. 2 are used for the ensuite room, and 2 can be used to hold the kitchen wall window awning up.
- **2b** 1 x extendable poles with a C Clip on each end, this is used as a roof support in the annex room, at the slide out end section.

Setting up your Camper and Main Tent

- 1. When selecting the perfect spot to setup your camper, try and find a level and grassy area where possible.
- 2. Adjust the height of all 4 stabilizer legs that are located at the front and rear of the trailer, to try and get the trailer as level as possible. Use the socket brace.
- 3. Attached the metal clip from the end of the front winch strap, to the metal hook on the top of the bed base.
- 4. Unclip the 6 latches that hold the bed base closed. The gas struts will start to push against the bed base and lift it up.
- 5. Wind the winch handle to allow the bed base to lift, fold over, and gently lower toward you, and onto front fridge box. Wind the winch all the way until the bed is lowered against the front fridge box, to secure the bed down.
- 6. Move to the rear of the camper, remove the split pins on each corner of the tailgate assembly, and gently lower down 90 degrees into the open position.
- 7. At the rear of the trailer are 4 x key locks, un-do each one and pull the bed out slowly until it hits the stopper inside and is fully extended. There are 2 x drop bolts each side, and these need to be aligned with holes located on the slide bed rail and drop into position.
- 8. Remove the split pins that hold the small support legs for the slide out bed, underneath the bed on the tailgate frame. Move into position and use the split pins to secure.
- 9. Unlock the side entry door of the main tent, fold out the step and adjust the height of the step support leg if you are camped on uneven ground.
- 10. From outside the tent, you will find a buckle across the front bed, you will need to unclip the buckle holding the poles down and grab the rope attached to the safari hoop and lift, this will release the gas struts and pop up the wall and safari roof. Move to the rear of the camper and repeat pulling the rope attached o the safari hoop up to lift the rear wall. Then source the rear support pole and attach the carabiner to the rope and slide the bracket under the bed as per the pictures below.



Move to the front of the camper and remove the winch strap from the bed end and attach the hook to the bed end rope as per the images below.



You will then need to wind the winch to tension the tent, so the safari roof is tight. The ropes should still have some play and should not be tight like a guitar string. A rule of thumb is winch down until the bed rests on the nylon strip then an additional half turn of the winch handle. Note: These end ropes will need to be retensioned at your service intervals if the tensioning is not satisfactory.

11. WARNING: Do not over tension the winch as it could break the poles or stretch the canvas and cause unnecessary stress on the seams

Setting up the Annex

- 1. Remove the poles from the rear box and start setting them out in their groups.
- 2. The Annex roof poles are labelled 3a and 7a and have a metal hook in the end of them, and these hook into the top corner of the main tent pole frame. Hook all 4 of the annex roof poles into position. The 7a are for the centre two locations.
- 3. Find the large grey canvas roof, and zip on to the side of the main tent roof, covering the zipper with the canvas flap and securing with the touch tape.
- 4. Estimate 2.4mts out from the main tent wall, this will be roughly where the annex wall will be positioned. Place pegs and ropes out from where the corner poles (5a) will be placed on the side wall, in preparation for the next steps.
- 5. Find the annex vertical poles labelled 5a in the list of poles. There will be 4 of them and they have Black tape around to make them easy to find, lay them on the ground roughly in position, ready for erection.
- 6. Find the roof spreader poles labelled as 4a and 4b, there will be (2x4a and 1x4b) they have an eyelet hole on both ends. Place them in between the 4 x vertical poles on the ground, ready to pick up and use in further instructions below.
- 7. Start at the bed end of the outer wall, with one hand grab the roof pole 3a that is connected to the main tent, and with the other hand grad the vertical 5a which will be lying on the ground. Place the eyelet hole from the roof 3a through the spigot on the side wall pole 5a. Pickup pole 4a from the ground, and place one end over the top of the spigot, with the other end facing towards the next pole along the wall. Make sure the lever lock handles are facing down as if they are facing up, they will foul with the canvas roof. Then take the corner of the canvas roof and place the eyelet over the top of the spigot. Pick up the rope that you pegged in earlier, place over the top of the spigot, and use the wooden adjuster to pull the pole tension. Adjust the height to about eye level for now, you can extend them fully once the other poles are in position. Loosen the lever lock on the roof 3a, and extend out until the canvas roof is fully tight. There is an elastic bungy with a silver hook on the end, this can be used to secure the canvas onto the spigot and stop it coming off.
- 8. The side wall roof pole 4a will now be hanging in midair on one end. This is your queue to move to the next pole. Repeat the process in point 7, grabbing the roof pole 7a in one hand and side wall vertical 5a in the other, place 4a over the spigot on 5a. Grab another pole 4b from the ground and place over the spigot. The canvas roof eyelet can then be placed over the spigot, place the metal hook into a little hole on the side of pole 5a, to hold the canvas roof down. Adjust the lever lock on pole 7a and push the pole out, so the canvas roof is tight. Adjust the lever lock on pole 4a /4b and push the pole out, so the canvas along the outer roof line is tight.

- 9. Repeat step 8, for the remaining side wall poles.
- 10. Extend upward the wall poles 5a using the black lever locks, so the canvas is tight in all areas. Lift the vertical poles using the lever locks and set the height so its level with the main tent.
- 11. Now that the basic structure of the annex is complete, you are ready to attach the walls if you need to. Note if you are not attaching the walls to the annex, it is a good idea to keep the ropes in position and possibly add more along the other spigots and tie down points. This will stop wind lifting the roof of the annex up, and potentially damaging the canvas or the poles.

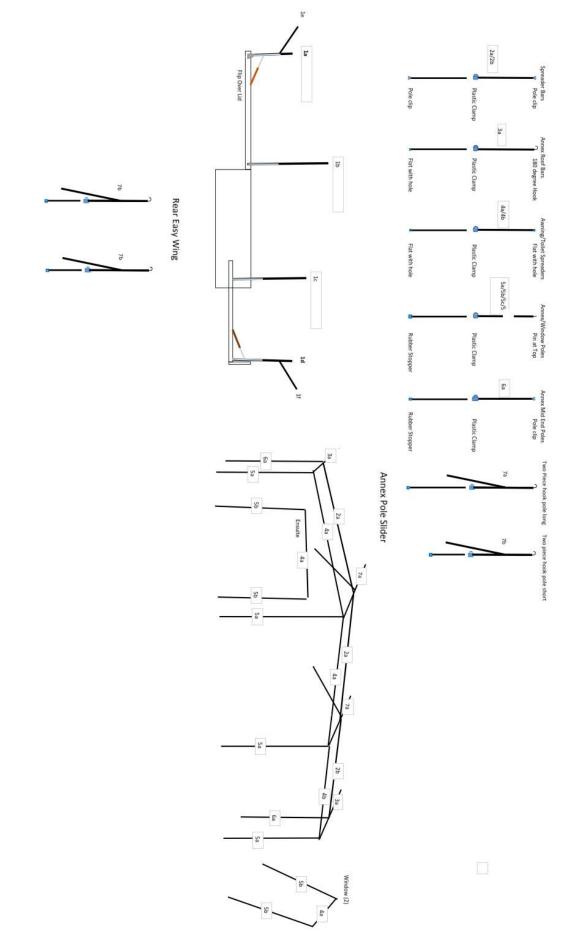
Attaching the Annex Walls

- 1. Start with the end wall furthest away from the kitchen. Find the roof zipper on this side wall and zip to the matching zipper on the canvas roof section. On the main tent there is a zipper that will attach to the Annex end wall.
- 2. Now you can attach the long side wall. Start in the corner where end wall finishes, you will see the zipper starts here. Zip together with the roof zipper and move all the way along to the other side.
- 3. Cover the zipper with the canvas flap. There is another zipper that runs vertical and connects the end wall to the side wall, where you first started. Zip these together and cover with the canvas flap.
- 4. Follow the same process for the last wall that runs behind the kitchen.
- 5. Try and make sure there is a slight fall on the annex roof away from the main tent, otherwise there is a risk water will run in through the zipper link of the annex roof to the main tent.
- 6. Once the heights are confirmed, you can peg out the annex walls into the ground.

Attaching the Side Canvas Section and Annex Floor

- 1. Find the small grey canvas section, this is the side wall draft skirt. Then follow the Velcro of the main tent along the side of the trailer. Once fitted it will help stop insects and wind draft coming into the annex from under the trailer.
- 2. Peg out the bottom of the draft skirt section, so it is secured to the ground.
- 3. There are various zipper openings to allow access to the doors on the camper trailer, and around the entry step.
- 4. Try and remove any sticks or stones on the ground in the annex floor area, as the PVC floor will be fitted over the top, and possible damage can occur.
- 5. Locate the large, heavy, grey PVC material piece, this is the annex floor. Open fully whilst inside the annex, and place face down roughly in position. Start in one corner at the front of the camper and start to zip the floor to the draft skirt, this will give you a start and finish position to save any line up issues. Then work your way along the wall attaching the floor touch tape to the wall touch tape. Be careful to make sure it attaches flat and neatly.

Pole diagram



Packing up your Camper Trailer

- 1. Ensure the tent and annex Canvas is dry, and free from leaves or other flora. Packing up the tent whilst it is wet can cause mold to form. If there is no choice but to pack it up wet, make sure the canvas can be opened and dried as soon as possible, failure to do so will cause mildew or mold to start.
- 2. Zip closes all windows on the annex and main tent, this will make it easier to fold up the annex pieces and pack away.
- 3. Lower the annex wall poles to eye level, making it easier to disassemble.
- 4. Remove the pegs from the annex wall floor section and ropes if you have them attached. Unzip one wall at a time, folding each canvas section neatly. DO NOT pull on the canvas in an attempt to unzip it, as this can cause damage to the zipper teeth. There should now be 3 neatly folded canvas sections.
- 5. To disassemble the annex pole frame, start at one corner and work your way along the wall, one pole at a time. Simply lift the eyelet end roof pole 3a off the spigot, and gently lower to the ground whilst still holding pole 5a upright with your other hand. Pole 3a will still be connected to the main tent at the other end. Lift off pole 4a from the spigot, freeing the vertical pole 5a, which you can then lower and lay flat on the ground.
- 6. Follow this procedure one pole at a time, being careful not to let the structure move one way or the other. Failure to do so can cause the spigot on the top of pole 5a to bend, or even pull out if severe stress is caused to the pole.
- 7. Once all 4 of pole 5a have been removed and laid flat on the ground, you will be left with the 4 x roof poles 3a and 7a still attached to the main tent frame on the Stainless-steel loops in the corner of the main tent. Simply unhook them and lay on the ground ready for storage in the Pole box
- 8. You can now remove the canvas annex roof. Gently unzip from the right corner and move all the way along to the other side. DO NOT pull on the canvas in an attempt to unzip it that way, this can cause damage to the zipper teeth. Once removed fold the canvas roof up and store.
- 9. Now for the main tent. Close all the windows and lower the outside canvas awning. Remove any ropes that you may have attached to the outside of the tent. Sweep out all dirt from the floor. If the privacy screen has been zipped up, there is no need to lower it.
- 10. Your bedding (excluding pillows) can be left in position, as there is plenty of room in the bed cavity to allow your bedding to stay in there all the time. Use the retaining straps in each side of the mattress, clip together over the mattress and bedding, to hold in position.
- 11. Lower the table fully and place the seat cushions on the slide out bed section, neatly and level. Do not stack them up high as this will make it hard to close the lid.
- 12. Release the winch from the safari roof rope and place back on bed lid. Pull down the main end wall pole set, lowering all the way to the bed from the inside or outside. Make sure no canvas is gathered underneath the poles, as this will make it hard to close the lid. Retain this end by using the small webbing straps to hold down the end pole set.
- 13. Remove the rear support pole and unclip the carabiner and stow in a safe place. Pull down the rear bed end wall pole set, lowering all the way to the bed from the inside or outside. Make sure no canvas is gathered underneath the poles, as this will make it hard to close.
- 14. Disassemble the entry step and fold away, use your key to lock securely.
- 15. Un zip each side of the slide out bed section and fold the lower section of canvas inwards so it cannot catch on the rollers.
- 16. Lift the locking bolts on each side and turn 90 degrees, to secure in the up position. As you slide the bed in these locks will turn back to the down position, ready to lock automatically in place next time you open the slide.

- 17. Remove the support legs under the slide out bed, if used, and put away in a safe place.
- 18. Gently push the slide in from the middle until all the way closed. Use the key to close all 4 compression locks.
- 19. The 3rd Alloy pole set inside the camper needs to fold back towards the rear of the slide out bed, make sure it sits flat and not impeded by canvas or cushions.
- 20. Move to the front of the trailer and unhitch the winch from the main bed end.
- 21. If using the rear winch to close the lid, you will need to unwind the winch and attach to the hook under the bed head. Move around to the rear of the trailer and start winding the winch, lifting the floor up slowly. Just before the floor is standing vertical, and the weight is still being held by the winch strap, move around the camper and push in the sides of the canvas toward the middle making sure its flat and neat.
- 22. Continue to wind the winch further until almost closed. Then push the final edges of canvas in, before closing the lid completely. Secure all 6 latches.
- 23. Lift the rear tailgate section and use the latches to lock into position.



Canvas 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 are not 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 do not 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.

Screens: Fly mesh screens are vulnerable to damage by poles rubbing against it. When packing up your camper it is important to close windows with both inner and outer canvas zipped up thus protecting the mesh. Never leave door screens rolled up when packing your camper as this can cause harsh creases and damage the screen. Mesh damage by owner misuse is not a warranty issue.

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 mold on your canvas. Try not to pack your camper while it is still wet. If you must leave a campsite with wet canvas, be sure to open and dry out your tent thoroughly at the very first opportunity when you get home. Mould can develop in just a couple of days so do not take the risk.

When packing up even a dry tent 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. 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. On soft floor campers these are best placed beside the mattress, on hard floor camper they should be packed inside the main body. Using these packs is critical in tropic regions due to the humidity as when the inside temperature of the camper drops overnight, the moist air can turn into condensation which in turn will cause mould.

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 as 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.







Use of White King® as Mildew Remover:

White King® is a bleaching and cleansing agent which is effective in removing mildew growth on canvas and killing mildew spores.

Safety:

• Read the safety directions on the White King® label and follow these directions carefully. Wear rubber gloves and avoid contact with skin and eyes.

Preparation:

- Read all directions thoroughly before commencing.
- The treatment is best performed outdoors and best results, together with easier application, are achieved when the canvas is in a taut position tents, annexes, etc. should be fully erected; where this is not possible, spread on a clean surface.
- Remove dust and dirt by lightly brushing. Heavy soiling should be washed off with clear warm water do not use soap, detergents, or other cleaning agents.

Application:

- White King® should be diluted with water, 1 part of White King® to 3 parts of water. It should not be mixed with other chemicals or cleaners.
- Apply this solution evenly to the outside at a rate that will penetrate the fabric, working the solution into the canvas with a soft brush or broom.
- Hose off the solution thoroughly after 15 minutes, continuing to hose down after run off is clear.
- If mildew is not completely removed, allow canvas to dry, and then repeat the application.
- Do not allow the solution to remain on the canvas for more than 20 minutes without thoroughly rinsing or damage may occur.
- White King® solution is not a reproofing agent but acts as a pre-treatment to remove mildew and spores. After completely drying, the canvas is pre-treated and ready for an application of Bradmill BrellaGuard® or BradProof® reproofing compounds

Working Qualities:

- Properly applied, White King® solution will remove mildew and kill spores.
- Care must be taken that the solution does not come in contact with anything other than the canvas being treated. Any splashes or spills should be thoroughly washed off immediately with water.
- The solution will yellow lawns; however, this will grow out.
- White King® solution will remove mildew, but not obstinate stains. It is designed as a pre-treatment to Bradmill Outdoor Fabrics' reproofing compounds, which should not be applied until fabric is completely dry.

Clean Up:

• Wash applicators with clean water

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 canvas. 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 as it will be protected by the tropical roof 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

If your camper has a 240V system, you will need a 15Amp extension lead to plug into the camper, to supply power to the inside 10A power outlets. The Projecta charger in your camper should be always plugged in into the power point mounted under the seat and switched on. Never leave power leads coiled when in use, lay the lead out back and fold in a manner that will not be a trip hazard or risk damage to the lead. If the site power is not RCD protected it is recommended to use a portable RCD device.

Preparing for Bad Weather

To better prepare for wet conditions it is advisable in most cases to increase the pitch of the awning/annex roof by lowering the corners furthest away from the main tent. This should be done to the degree that water cannot pool on the roof.

Additionally, in soft floor campers it is advisable to lower the back corner pole opposite the bed and furthest from the annex to ensure water cannot pool on the main tent.

Canvas is not designed to store water. Water pooling can stretch and damage canvas and in extreme cases bend the supporting poles of the camper.

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 mold. 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 camper at the first opportunity when returning home. Dry all canvas thoroughly and follow point 2.

Exterior

Soft floor: The vinyl cover on the tent of your soft floor camper is designed as a travel cover not a storage cover. For storage at home, it is recommended that you use a camper cover or tarpaulin to protect from UV and the elements. **Hard floor:** Ensure all seals on the camper have proper compression at 30-50%, are free of dirt and have no canvas protruding past the seals. UV light and the elements can over time cause seals and fitting to perish and become brittle. The use of a 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 cannot 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 200klms, then periodically during every trip. Wheel bearings must be checked after travelling the first 1000klms from brand new, to ensure they have "bedded" in properly and still seated in the correct position.

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 wear, you should seek a wheel alignment as soon as possible.

Recommended tyre pressure for highway use is 55PSI. Your tyre pressures should adjust to suit the many variables 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.
- Always use dedicated jacking points
- 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

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

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

6 MONTHS / 5,0	000KM SERVIC	E	CHECKED			
Hitch	Check hitch bolt	s to 76Nm				
Handbrake	Check cable and	adjust if necessary				
Hand winch	Check brake fur	ction and webbing				
Suspension	Lubricate and ch	neck bushes for excess movement. Torque bolts to 190Nm				
Brakes	Inspect and adju	ist. 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 dama	Check for damage and pressure				
Lights	Check all lights	Check all lights are functioning				
Battery	Check terminals	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:						

12 MONTHS / 1	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:	1		
Dealer Stamp				

Dealer Stamp:

18 MONTHS / 1	5,000KM 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:			

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 damage and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and adjust if necessary		
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	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 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 structural fixing are secure.		
Date:	Service Person:		

36 MONTHS / 3	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 damage and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and adjust if necessary		
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	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 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 structural fixing are secure.		
	Service Person:		

48 MONTHS / 40,000KM SERVICE				
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:

Date:	Service Person:	1	
General fixings	Check all structural fixing are secure.		
Seals	Check condition and correct latch/lock adjustment for correct 30-50% compression		
Battery	Check terminals and voltage at full charge		
Gas System	Leak, test, check stove operation and hose/coupling condition		
Tyres	Check for damage and pressure		
Wheel Nuts	Inspect condition and torque to 125Nm (12mm studs) (140Nm 14mm studs alloy rims) (200Nm 14mm studs steel rims)		
Wheel bearings	Remove, clean and re-lubricate. Inspect for wear and replace if necessary		
Brakes	Inspect and adjust. Check lining thickness and drum wear		
Suspension	Lubricate and check bushes for excess movement. Torque bolts to 190Nm		
Hand winch	Check brake function and webbing		
Hand brake	Check cable and adjust if necessary		
Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		

60 MONTHS / 50	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:		

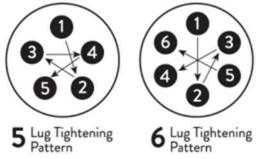
Dealer Stamp:

Hitch	Inspect for damage and lubricate. Check bolt Torque to 76Nm		
Hand brake	Check cable and adjust if necessary		
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	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 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 structural fixing are secure.		
Date:	Service Person:		

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 is 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. Refer to the plate on your drawbar.



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.



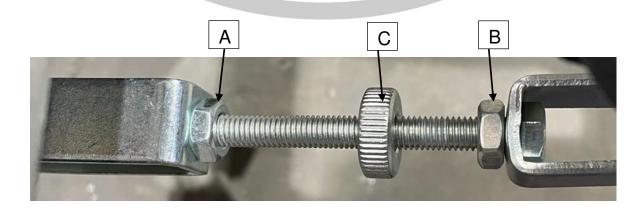
Hand Brake

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.

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, tools, 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.

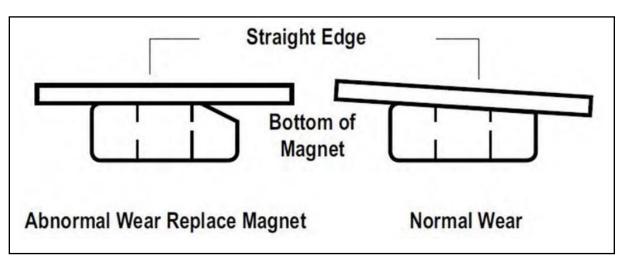


Caution

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 is 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 saltwater 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

For detailed information on the appliances installed in your camper please refer to the manuals included in your camper handover.



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 because 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 120ah AGM Batteries. 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 AGM 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 is not 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 12.5v can permanently damage its performance and reduce its service life

Solar Panel

Your camper may be supplied with a 200W folding Solar panel or Solar Blanket. It has an Anderson plug connection that can be used at the dedicated Anderson plug inlet at the rear of the camper Drivers side. 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.

Control Panel

Control panel with functions indicated.

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

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

Gas & Water Systems Hot Water System

Your Camper is supplied with a Smarttek Black instant gas Hot Water System, along with all hoses, fittings and Shower accessories required to connect the shower. You also have a T piece to be able to have hot water connected to the kitchen water line at the same time as a Shower Hose. For more information you can visit the Smarttek website.

https://smarttek.com.au

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 driver's 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 base. Once you connect your gas bottle you can connect the kitchen gas hose to the bayonet connection provided. Once the bayonet is secure, ensure all controls on the stove are in the "Off" position and then turn on the gas bottle valve. 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 the line and flow through the burners.

Kitchen

To Open the kitchen first 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 water plumbing, gas hose, peezo 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.

Pre-Trip Checklist

Working from a checklist will help avoid forgetting important tasks particularly regarding 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-H	look Up
Water Tanks full & locking cap secure	All 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	
Hooked U	Ip 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 Bluewater Campers 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 used.





Trouble Shooting Electrical

Problem	Possible Cause	Remedy
No 12 volt power	Main Isolator in off Position	Turn on main isolator
	Flat battery	Charge battery
	Faulty battery	Replace
	Main circuit breaker tripped	Reset main circuit breaker
	Loose battery terminals	Tighten terminals
	Damaged wiring	Find and repair/replace
Battery not Charging	Faulty Battery	Have battery tested and replace if faulty
		Indicated by charger not turned on. Check mains power, if charger still doesn't switch on
	No mains power	the charger may be faulty and you should contact the dealer for warranty or replacement
		A charger fault will be indicated by fast flashing on the charger control panel (Projecta
	Faulty Charger	Intelli-Charge). Contact your dealer for warranty or replacement.
		Indicated by OTP on LCD screen and fast flashing. Ensure adequate ventilation around
		charger and allow to cool. Do not store items around the electronics. (Projecta Intelli-
	Charger has overheated	Charge)
Lights or plugs not working	Tripped circuit breaker	Reset breaker
	Poor connection	find and rectify
	Circuit switch off	Check control panel and switch on
No power to fridge		
		Check and clean plug contacts. If pins are closed up use a knife to separate the split in the
Indicators or parking lights not working	Poor connection at trailer plug	pins being sure not to widen too far. The gap should be even along the length of the pin.
Inverter not powering	Poor connection	Check 12v connections are tight
	Main 12v switch is off	Check main rotary switch on control panel
	Flat battery	Charge battery
	200A main circuit breaker	If no other 12v is available check the main 200A breaker with a multimeter or test light
	150A breaker to Inverter	check 150A breaker to inverter using a multimeter or test light
No Inverter Output	See Inverter trouble shooting page	
Circuit breaker tripping during use	Overloading	Check amperage draw from appliance
	Faulty Appliance	Check appliance and rectify
Battery not charging from anderson plug	Faulty Connection at plug	Check plug ensuring connections are firm
	50A circuit breaker tripping	Check there are no shorts and check circuit breaker with multimeter or test light
	BMS	Check BMS is correctly set and operating (see manual page)

Water

Problem	Possible Cause	Remedy
	No power from control panel	Check 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
Dumm working but no woton 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 pressurize 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
Cooker not igniting	Gas bottle empty	Fill gas bottle
	Gas bottle not turned on	Turn on valve on gas bottle
	Gas hose on cooker not connected	Check bayonet is securely connected into receiver
	Regulator blocked	Check regulator is not blocked with dirt, wasp's nests etc.
	Kinked hose	Check hose is not twisted and kinked

Brakes

Problem	Possible Cause	Remedy
	Open Circuits	Find and correct
No Brakes	Severe under adjustments	Adjust brakes
NO DIARES	Faulty controller	Test and correct/replace
	Short circuits	Find and correct
	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
Weak Brakes	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
	Poor Synchronizing with controller	Adjust controller
	Poor Adjustment	Adjust brakes as per instructions
Brakes Locking	Faulty controller	Test and rectify or replace
Diakes Locking	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
	Faulty controller	Test and Correct
Intermittent brakes	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 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 more than 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 is 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 will not 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 is not 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. Dingoes have been known to open locked eskies to get to food so do not

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 park's 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 will not 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 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 do not 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.

How to service the Stabilizer Legs

Servicing the stabilizer legs on your camper or caravan is a very simple task and should be done twice a year.

- Step 1 Remove the dust cover to expose the bevel gears
- Step 2 If they are older and well used its advisable to degrease the gears to remove any metal or other grit build up.
- Step 3 Apply a generous coating of grease to the gears being sure to work it into the grooves of the teeth.
- Step 4 Replace dust cover.

It is important to remember that telescopic stabilizer is purely for keeping your trailer steady. You should never use them to raise the caravan or camper off the ground as the roll pins that fasten the gears on the shafts could break. Never use a rattle gun to raise or lower them, the impact style of driving will damage the gears and pins very quickly. A cordless drill may be used but it is important to use once with a clutch setting that can be set to not overpower the gears. When setting the legs at an angle you should be careful not to overload them which can lead to bending the locating pins on the release handle.

Using a Cordless Drill for stabilizing The Camper

Winding stabilizer legs up and down can be a time- consuming job and not a fun one on a hit 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 stabilizer 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 stabilizer hits the ground

To transform your drill, you will need an adapter to 3/8 or 1/2" drive depending on your socket, 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 caravans 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 have not worked their way out of the corners leaving a gap.

When you are 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.

Warranty Statement

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