

BERG Off-Road CX3 User Guide



1. BERG Off-Road CX3 Setup instructions

Step 1: Get the caravan in position.

1. Carefully maneuver the caravan into your desired location using the car, if possible. Ensure you select a flat area with good drainage and enough space for both the caravan and its awning. Take your time to align the caravan so you have easy access to the kitchen, beds, and other amenities once setup is complete.
2. Unplug any electrical connections between the car and the caravan. Pull up the handbrake firmly to keep the caravan stationary while you begin the uncoupling process.
3. Use the jockey wheel located at the front of the caravan. Rotate the handle to lower or raise the nose, while pulling the hitch handle upwards, freeing the caravan from the tow hitch. Ensure the caravan is stable and does not roll.
4. Slowly drive the car away from the caravan, checking that the caravan is securely positioned and won't move as you do so.
5. Release the handbrake and gently push or pull the caravan into its final position by hand or with the jockey wheel. Once in place, reapply the handbrake to keep it secure.
6. Attach the front levelling jack to the caravan's A-frame and lower it to the ground. Adjust the jack until the caravan's front is stable and the chassis is supported.
7. Unfold the groundsheet and spread it evenly underneath the caravan entrance. Secure the corners with pegs to prevent it from shifting due to wind or foot traffic.
8. Remove the step-box from the caravan storage compartment and place it near the door for safe and easy entry and exit.
9. Attach the rear levelling jacks to both sides at the back of the caravan. Use a spirit level (usually found inside the step-box) to check and adjust the caravan so it is level from side to side. This will prevent uncomfortable sleeping and ensure appliances function correctly.

NOTE: The caravan should be levelled with the nose down slightly so that the water runs towards the front. This prevents stagnant water from accumulating and assists with drainage, especially during rain.

NOTE: If the terrain is very uneven, use levelling chocks under the wheels. Place these under the tyres and adjust as needed to achieve a stable, level setup. This step is crucial for safe operation and comfort.

Step 2: Power-up

1. If you are camping at a site equipped with shore power, retrieve the extension cord from the toolbox compartment. Plug the cord into the site's mains outlet and then into the caravan's external socket. Check the charge indicator on the inverter to ensure the battery is receiving power.
2. Switch on the caravan's mains breaker and the 12V circuit breaker. This will activate the internal electrical systems, including lighting, water pump, and sockets.

3. If you have foldable solar panels, unfold them and place them in direct sunlight. Connect them to the Anderson plug provided on the caravan. Check the solar charging indicator light to ensure the panels are generating electricity and charging the battery.

Step 3: Set up the Roof

1. Lower the spare wheel mounted at the rear of the caravan and use it as a step. Climb up to access the two rear roof latches. Carefully detach these latches, then unzip and open the rain cover stored in the canvas bag attached to the roof's back edge.
2. Push the roof upwards from the rear. Do not secure the roof stays yet; allow the roof to remain raised while you proceed to the front.
3. Move to the front of the caravan and detach the two front roof latches. Enter the caravan and push the front section of the roof up. Again, do not latch the roof supports at this stage.
4. Inside, reposition the bathroom panel so it stands vertically. Zip up the canvas side panels to create weather protection. If you'd like to close the canvas bathroom roof, zip it up now. You may need assistance to pull the vertical panel back slightly so the zip catches properly.
5. Secure the roof supports using the screw knobs provided. Tighten each knob firmly to ensure the roof is locked in position and won't collapse unexpectedly.

WARNING: When collapsing the roof, ensure the canvas surround does not get pinched in the roof supports. Open the rear surround window and roll it up tightly before lowering the roof. Always latch the roof in front first, then collapse the back section for safe and smooth operation.

Step 4: Set up the Beds

1. For the queen bed, enter the caravan and locate the strap holding the hard bed panels in place. Unlatch this strap to release the panels for assembly.
2. Step outside and lift the bed roof panel until it is horizontal.
3. While holding the roof panel, unhook the side panels and swing them open so they rest underneath the roof panel. Carefully lower the roof panel onto the side panels and ensure they are seated tightly in the corners of the roof panel.
4. Lower the base of the bed to rest on the side panels. Lift the back-board to a vertical orientation, taking care not to damage the reading lights by lifting the roof panel slightly so the back-board clears the lights.
5. Secure the panels together with the latches provided, ensuring the bed is stable and safe to use. There is a spring bolt on the inside on the roof panel to prevent someone from opening the bed panels from the outside.
6. Fold open and place the queen mattress inside on top of the bed base. The mattress can be folded with bedding in place.
7. Repeat these steps for the single bed at the rear of the caravan, following the same process for assembly and securing.

Step 5: Set up the Awning

1. Unlatch all the awning box latches along the caravan body. Lift the main hatch and the two smaller hatches on either end to a vertical position. Unroll the awning.

2. Swing the main awning arms outward 180 degrees. Attach them loosely to the caravan using the two black adjustable straps stored in the step box.
3. Use a pole to lift the center of the awning as high as possible. Attach a rope to hold the center up, but do not fully tension it yet; this allows you to make further adjustments.
4. Swing out the secondary awning arms from underneath. Align them with the pockets at the corners of the awning, extend each arm until it clicks into position, and ensure they sit neatly in their pockets.
5. Adjust the center pole to the desired height and tension the supporting rope. Next, tighten the straps on either end until the awning aligns with the side of the caravan (full 180 degrees).
6. Push the awning struts into a vertical position.

WARNING: If it is windy, secure all awning arms by inserting a pole underneath each arm and fastening them with ropes to prevent damage. Spare poles are stored in the awning box located on the opposite side of the caravan.

7. Lower the awning box hatch gently so it rests on top of the awning, protecting it and providing additional support.
8. Attach the canvas cover at the kitchen by threading the shock-cord through the nose-box roof-rack holes and hooking it onto the plastic hooks. This provides shelter for the kitchen area.
9. Set up the rain cover at the rear of the caravan, ensuring it is tightly secured to protect against weather.

Step 6: Set up the Kitchen

1. Open the kitchen hatch latches. Slide it outwards until it locks into place. Check for the lock tabs on either side; push these down to retract the kitchen when packing up.
2. Close all four push latches on the kitchen hatch. Rotate the basin through 180° to fold it down for use. Unlatch the small table and fold it outward. Underneath the table, use the plastic hooks to hang a rubbish bag for convenience.
3. Lower the stabilising leg found underneath the kitchen module to provide extra support and prevent wobbling during use.
4. Locate the gas pipe on the left side of the kitchen. Connect it securely to the quick-release coupler on the nose-box. Double-check the connection for leaks before use.
5. Open the nose-box door and slide out the fridge/freezer. Ensure the fridge/freezer is switched on and cooling properly, ready for food storage.
6. Open the gas bottle valve and the inline tap. Inspect for gas leaks using soapy water—never use a flame. If bubbles form, tighten the connections and recheck.
7. Fill the caravan's water tank with fresh water. Switch on the water pump and check all taps, sinks, and hoses for leaks.
8. Open the ventilation hatch for the geyser and switch it on, following the manufacturer's instructions for safe operation.

WARNING: The geyser hatch must remain open while the geyser is in use. Operating with the hatch closed may cause overheating, damage, or fire.

9. Retrieve the flat hoses from the toolbox on the caravan's rear side. Attach them to the kitchen sink and bathroom drains, and unroll them to direct wastewater safely away from the campsite and living area.

Step 7: Home stretch

1. Attach the washing line, found in the toolbox.
2. Empty the toilet waste tank. Measure out 30ml of toilet chemicals and pour it directly into the lower waste tank.

WARNING: Never pour the chemicals into the toilet bowl as it will stain the toilet. Always add them to the bottom tank only.

3. Pour yourself a drink and sit down on your camp chair! Enjoy your setup and relax, knowing your BERG Off-Road CX3 is ready for adventure.

NOTE: When breaking camp, reverse each step in the guide. Carefully dismantle and pack away items in the opposite order of setup to ensure safety and preserve equipment.

2. Electrical System

Your BERG Off-Road caravan is equipped with a Victron Energy-based electrical system, designed for seamless operation whether you're plugged into shore power, driving, or camping off-grid. The system automatically manages power flow between solar, 220V mains, and the tow vehicle.

Main components include:

- Lithium battery
- Victron inverter/charger with selector switch
- Victron Bluetooth dongle
- Victron MPPT solar controllers
- 12V fuse box
- 220V fused busbar
- 220V earth leakage and circuit breakers
- Cerbo Victron screen
- Optional DC-DC charger (to charge from the car's alternator while towing)
- Optional solar panels

2.1 Battery Operation

The battery powers all 12V systems including lighting, pumps, and fridges.

To switch the Adventure X battery on or off, press and hold the button on the battery for 3 seconds. A red light will indicate that the battery is active.

The battery isolator switch, located next to the fuse box, disconnects all power from the battery. Use this switch when storing or servicing your caravan.

2.2 Inverter & 220V Power

The Victron inverter supplies 220V power when shore power isn't available. Use the small toggle switch at the bottom of the inverter to select between 'ON', 'OFF' and 'CHARGE'. When set to CHARGE, the inverter will only act as a charger to charge your battery when shore power is

connected. When 'ON' and shore power is disconnected, it will automatically supply 220V from the battery.

2.3 Solar & Vehicle Charging

The Victron MPPT charge controller automatically regulates charging from the roof-mounted solar panels or external solar panels connected via the Anderson plug. The controller has indicator lights:

- BULK – charging actively.
- FLOAT – battery full and maintaining charge.

The DC-DC charger charges your caravan battery while towing.

2.4 12V Circuits & Appliances

12V power is distributed to all lights, pumps, and Hella sockets via the fuse box. There are separate circuits for interior/exterior lights, water pump, fridge sockets, external sockets, and accessories.

The main nosebox fridge/freezer can run on either 12V or 220V. When shore power is available, it automatically switches to 220V. If you don't want it to run off the inverter while camping, switch off the 220V circuit breaker for the fridge to force it to run on 12V.

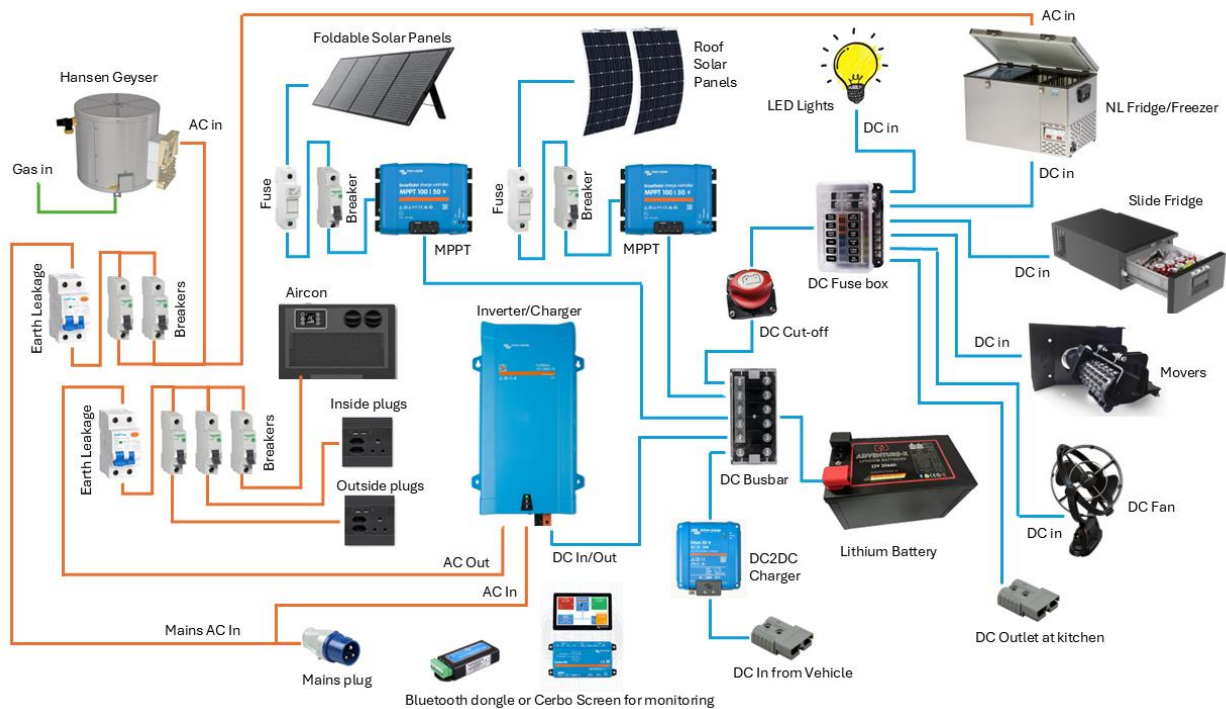
2.5 Monitoring with Victron Connect App

Download the 'VictronConnect' app from the App Store or Google Play. Enable Bluetooth on your phone and connect to each Victron component (Inverter, MPPT, DC-DC charger). Each device has its own default password, found in its manual. The app allows you to monitor battery voltage, solar input, and load usage in real-time.

2.6 Basic Troubleshooting

If your system isn't working as expected:

1. Check that the Adventure X battery is switched ON (press and hold 3 sec).
2. Make sure the battery isolator and 12V breakers are ON.
3. Confirm that the inverter switch is set correctly.
4. Verify the changeover switch position.
5. Check fuses in the fuse box for blown circuits.
6. Make sure all plugs are connected and cables are secure.
7. When solar panel are connected, check that the MPPT shows a BULK or FLOAT light.
8. When the cable from the car is connected, check that the DC2DC shows a BULK or FLOAT light.



3. Gas System

Your caravan's gas system supplies the stove, geyser, and optional fridge.

The gas bottle in use is stored in the cabinet on the nose box. A spare bottle is stored next to the geyser.

Always ensure that the quick couplers are properly connected and valves are open before use.

- Open the inline tap and bottle valve before use.
- Check all connections with soapy water – never use a flame.
- Always close valves before towing.
- Keep the geyser vent open when using gas.
- Close the gas when leaving the campsite and while towing.

4. Water System

The BERG Off-Road features a 150L main tank with pressure pump and water level gauge. An optional 60L water tank or diesel tank can also be fitted with its own pump. Water is distributed to the kitchen, basin, and toilet.

To operate:

1. Fill the tank using the filler cap.
2. Turn on the pump switch on the control panel.
3. Open taps and check for leaks.
4. Open the geyser vent and switch it on.
5. Turn off the pump and when leaving the campsite and while towing.

It is possible to transfer water from the optional second tank to the main tank using the supplied hose pipe.

It is also possible to run the system directly from shore water supply by connecting the hose pipe to the tap on the nose box and opening the tap. When running from shore water, the tank will not fill since the pump has a non-return valve.

The Hansen geyser can run from both gas or 220V. Only use the 220V function if the caravan is connected to shore power. If camping off-grid, use the gas function. The geyser will keep its 14L water tank at the set temperature and will automatically ignite the flame or turn on the element. When running on gas it is critical to leave the door open for ventilation. If the hot water is depleted it will take approximately 20min to heat up again.

5. Toilet Operation

Your caravan is equipped with a pressurized cartridge toilet connected directly to the main water pump. To fill the bowl, press the orange button on the back of the toilet. To flush, pull the lever at the front — this releases the water into the lower waste tank.

Before flushing, press the pressure release valve to prevent splashing, especially if the caravan is hot. The indicator on the toilet will change from green to red as the bottom tank fills. When red, empty the tank by opening the exterior hatch, removing the cartridge, and pouring it into a suitable disposal point. Rinse the tank, add toilet chemicals, and slide it back in until it locks.

6. Care and Maintenance

Your BERG Off-Road caravan is engineered for durability, adventure, and long service life. Regular care and maintenance will keep it performing at its best, preserve its appearance, and protect your investment.

6.1 General Care

- Wash the caravan regularly using clean water and a mild automotive shampoo.
- Use a soft sponge or microfiber cloth to avoid scratching painted, powder-coated, aluminium, or stainless-steel surfaces.
- Rinse thoroughly after travel on gravel roads, mud, beach sand, or salty coastal areas.
- Do not use harsh chemicals, abrasive cleaners, steel wool, or high-acid detergents.
- Avoid directing high-pressure washers at seals, bearings, electrical fittings, vents, decals, or hinges.

6.2 Chassis, Suspension and Running Gear

Before every trip, and at regular intervals:

- Inspect tyres for damage, cracks, punctures, and correct pressure.
- Check wheel nuts are tightened to at least 100NM torque.
- Inspect rims for cracks or impact damage.
- Check suspension components, bushes, shocks, and mounting bolts for wear or looseness.
- Inspect the coupling, jockey wheel, handbrake, and safety chains for proper operation.
- Lubricate moving parts such as the hitch, jockey wheel shaft, stabiliser legs, hinges, and latches as required.

After rough off-road use, inspect the undercarriage for stone damage or loose fasteners.

6.3 Brakes and Bearings

- Have wheel bearings inspected and serviced at 5000km intervals or annually, whichever comes first.
- Test brake operation before every journey.
- If the caravan has been submerged in water crossings or exposed to excessive mud, bearings and brakes should be checked immediately.

6.4 Body, Doors and Seals

- Keep all door seals, hatches, and rubber trims clean.
- Periodically apply a silicone-based rubber conditioner to seals to prevent drying and cracking. Never put silicon spray on sliders. For slides use a dry-film lubricant.
- Check locks, catches, gas struts, hinges, and latches for secure operation.
- Touch up chips or scratches promptly to prevent corrosion on exposed steel components.

6.5 Electrical System

- Inspect battery terminals for corrosion and ensure connections are tight.
- Keep batteries charged when the caravan is in storage, or disconnect them completely.
- Test lights, brake lights, indicators, pumps, fans, and accessories before departure.
- Ensure solar panels remain clean for maximum charging performance.
- Do not modify wiring or install accessories without proper fuse protection.

6.6 Water System

- Drain and flush water tanks periodically.
- Sanitize tanks with Milton if the caravan has been stored for extended periods.
- Inspect hoses, fittings, and pumps for leaks.
- Do not leave water standing in tanks for long periods in hot weather.

6.7 Canvas, Tent and Awnings

- Allow canvas, awnings, and tent material to dry completely before packing away.
- If packed wet due to weather, open and dry as soon as possible to prevent mould.
- Clean canvas with clean water and a soft brush only unless using a specialist canvas cleaner.
- Occasionally spray canvas seams with a tent waterproofing spray.
- Store poles, zips, and accessories clean and dry.

6.8 Fasteners and Hardware

- Off-road travel creates vibration. Regularly check:
- Bolts and nuts
- Drawer runners
- Cupboard catches
- Spare wheel mounts
- Accessory mounts
- Kitchen slide systems

Retighten where required.

6.9 Storage

- If storing for extended periods:

- Park under cover where possible or get a caravan cover.
- Disconnect or isolate the battery.
- Remove food and perishable items.
- Leave fridge door slightly open to prevent odours.
- Place rat wax blocks in and around the caravan.
- Support tyres or move the caravan occasionally to avoid flat spots.
- Cover electrical plugs and exposed connectors.

6.10 Service Intervals

We recommend a full inspection/service:

- Every 10,000 km of travel, or
- Every 24 months, whichever comes first
- Immediately after any severe off-road expedition

Important Note: Regular maintenance is the owner's responsibility. Neglect, overloading, misuse, water ingress caused by damage, or failure to maintain components may affect warranty coverage.