

HKC



XPLORER *2.2E* **OWNER'S MANUAL**

WWW.HARDKORRCAMPERS.COM.AU

CONGRATULATIONS ON
PURCHASING YOUR

XPLORER 2.2E

In doing so, you now have the assurance and peace of mind that comes from purchasing a product that has been manufactured to the highest quality standards.

We hope you will enjoy using this product for many years to come.

If you require technical support, or in the unlikely event your purchase appears to be faulty, please contact our support team for immediate assistance.

- THE HKC TEAM



IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

While caution has been taken to ensure the accuracy of the contents of this guide, Hardkor Campers assumes no responsibility for errors or omissions. Please note that specifications and product functionality may change without notice.

For assistance with assembly or installation, parts and service, visit www.hardkorrcampers.com or contact customer service through the following:



enquiries@hardkorrcampers.com

PRODUCT USAGE & MAINTENANCE

The aim of this manual is to aid owners in the proper utilization and operation of the Hardkorr Campers Xplorer 2.2E Camper trailer model. The content presented in this manual is directed towards individuals possessing a basic understanding of mechanical and technological concepts. If you lack the requisite skills or access to suitable tools to execute specific tasks, **we recommend seeking professional guidance.**

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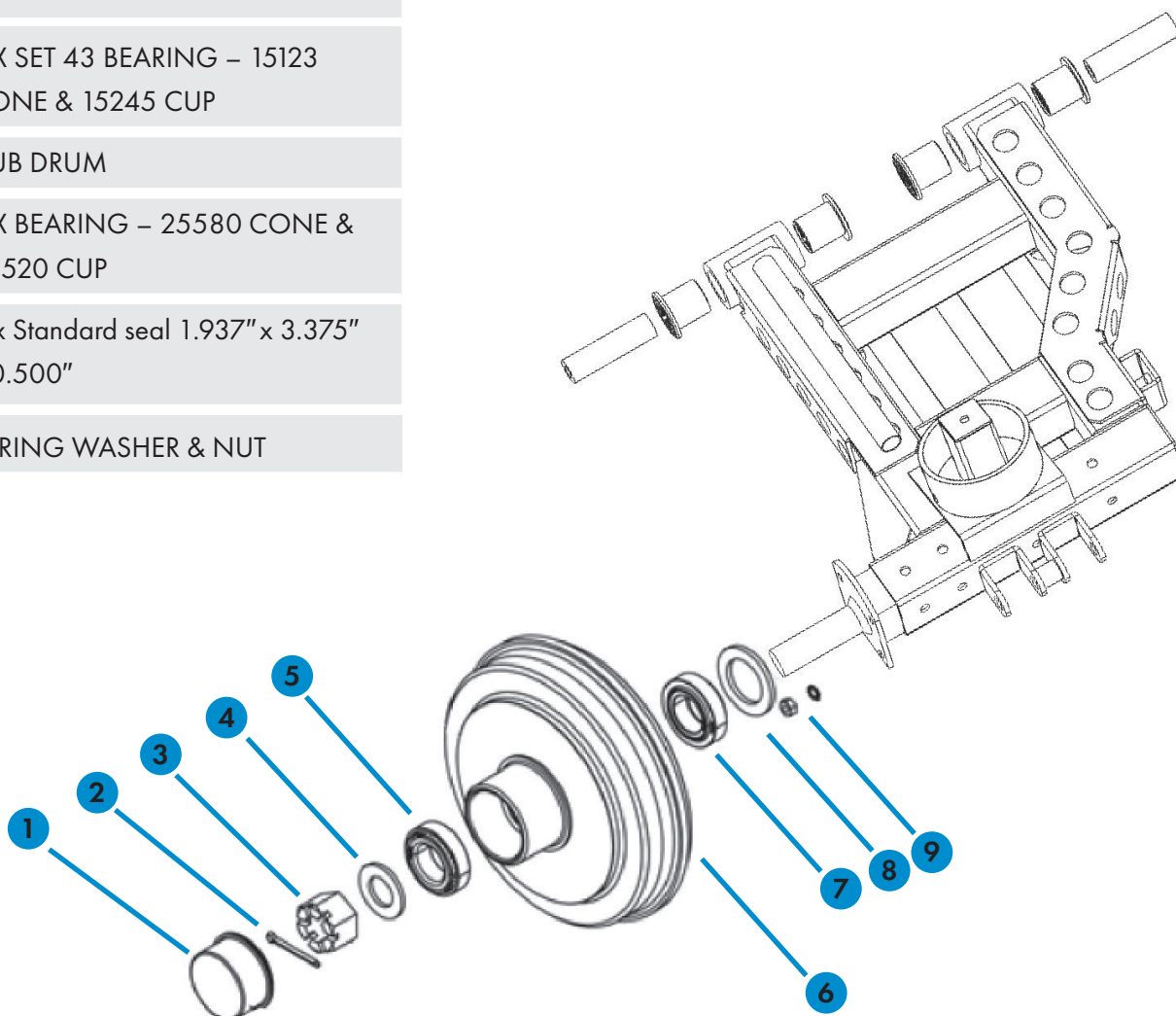
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LENGTH	4.30m (from extended draw-bar to rear spare tyre/s)
WIDTH	2.05m (including packed awning and shower ensuite fitted)
HEIGHT	2.25m
GROUND CLEARANCE	0.50m (to water tank)
WHEEL TRACK	1.54m
DEPARTURE ANGLE	25.3°
RAMP OVER ANGLE	59°
TARE WEIGHT	1,350kg
ATM	2,200kg
GTM	2050
AXLE GROUP RATING	2200
BALL WEIGHT	90-160kg depending on set up
PAYLOAD	850kg
TRAILER STORAGE CAPACITY	~3,900L
WATER	170L (100L front tank + 70L rear)
JERRY CANS	2x 20L cans
GAS	1x standard 9kg cylinder holder
TYRES	265/75 R16 MT (31.6")
LOAD RATING	123/120Q
SPEED RATING	160km/h
COLD INFLATION	550kPa

12" AXLE DIAGRAM

Your vehicle is required by law to be fitted with an electric brake controller. Our camper trailers are all fitted with electric brakes to comply with legislation.

1	BEARING CAP
2	M5 X 50MM SPLIT PIN
3	CROWN NUT
4	BEARING SEAL
5	1 X SET 43 BEARING – 15123 CONE & 15245 CUP
6	HUB DRUM
7	1 X BEARING – 25580 CONE & 25520 CUP
8	1 x Standard seal 1.937" x 3.375" x 0.500"
9	SPRING WASHER & NUT



XPLORER



2.2E



1	Hardkorr Hard Shell Dual-Fold Rooftop Tent The Dual lift system is designed to be easy and fast for one-person set up; release the latches and push the tent up, fit the two poles (included) for the tent entry cover, and you are done. Packing down is equally as easy; reverse the steps, and away you go.
2	Tent entry cover
3	Hardkorr XL 270° Free-standing Awning With a wind rating of 30 KPH without leg poles, you can be sure this awning will survive our tough Australian conditions whether you're at the beach or out in the country. If the weather starts to change, we recommend securing the awning as you never know what Mother Nature is capable of.
4	Hardkorr Fold-Out Hot/Cold Shower Tent Our Shower Tent is ideal for those looking for a bit of extra luxury while out on the road. Useful as both a shower room and as a toilet or changing space, it can be adjusted in size so that it suits the height of your trailer perfectly. The tent comes with everything you need to get it setup, as well as a removable floor with drain, and a velcro roof piece.
5	Patented integrated stairway entry to rooftop tent With the Xplorer, the game has totally changed. It's the only camper trailer in the world to feature a staircase integrated into the trailer itself, making it much safer and less strenuous to access your tent, regardless of your age or physical condition.
6	Stairway storage compartments
7	Removable stairs
8	Gas cylinder and Jerry can storage
9	Stabiliser legs
10	Pull-out camp kitchen A kitchen sink, Induction cooktop, utensil drawer, and a large prep-bench-everything you need to cook up a storm.
11	Heavy duty independent suspension with big-bore gas shock absorbers
12	Electrical control panel
13	Pull-out fridge slide
14	Door-mounted dual-colour LED overhead lighting

PRE-TRIP INSPECTION - CHECK THOROUGHLY

WHEELS

- Correct tyre pressure (35-45psi)
- Tyres are in good condition
- Tread is of legal depth (1.6mm minimum)
- Wheel nuts tight (100-110ft/lb)

HITCHES & CHAINS

- Ensure hitch functions properly
- No damage to the hitch or chains
- Hitch properly lubricated
- Hitch articulates correctly

BRAKES

- Electric brakes function correctly via pedal pressure inside the vehicle
- Breakaway wire connected

TRAILER LIGHTS

- Indicators function properly
- Front marker lamps function properly (turn headlights on)

ELECTRICAL

- Batteries are full and in good condition (Lithium 14v)
- You can see via the monitor your DC-DC is charging your batteries, check solar and vehicle individually.
- Fridge turns on and stays cool (make sure to put some items inside)

UNDER TRAILER

- On each bolt, nut or fitting there will be a paint pen mark, we do this as a precautionary so you can quickly check if anything has come loose in your travels.
- Bearings should be checked prior to departure.
- There are 4x Grease nipples on the control arms, depending on the age or kms of the trailer this should be checked also.

MISCELLANEOUS

- Keys for the trailer doors.
- Tools
- Jack (not supplied by HKC)
- Spare wheel is inflated

WEIGHT INFORMATION

Towing your camper trailer safely under varying conditions can present challenges. Properly loading your camping trailer in a safe and suitable manner can help reduce the risk of potential hazards during your journey. While there may be numerous abbreviations and terms that initially seem confusing, understanding them will ultimately enhance your towing experience.

BALL WEIGHT

This is the downward load exerted on the towing point of your vehicle by the trailer. A general rule of thumb is the ball weight should be close to 10% of the trailers ATM.

TARE WEIGHT

Tare Weight is the total weight of the trailer with all the options fitted by Hardkor Campers with no liquids or fluids not essential to the operation of the Xplorer camper trailer.

GTM

The gross trailer mass (GTM) is the maximum amount of weight that can be supported by the suspension minus the ball weight.

ATM

The aggregate trailer mass (ATM) is the maximum amount of weight that can be supported by the trailer and **must not be exceeded**.

The Xplorer 2.2 has a **Tare Weight** of **1350kg**, and the **ATM** is **2200kg**. This means you can load approximately 850Kg. Once your 170L of water storage is filled up your allowable weight will now be 680Kg.

You may have also heard about GCM (Gross Combined Mass). This is the maximum allowed mass of the vehicle and trailer as determined by the vehicle manufacturer.

LOADING YOUR TRAILER

To ensure the trailer can be towed safely and effectively, it is recommended to follow the below diagram when packing your Xplorer camper trailer. Adhering to the appropriate weight distribution is crucial to a smooth, safe towing experience.



LIGHTWEIGHT ITEMS

- Clothing
- Food
- Recreational items

MID-WEIGHT ITEMS

- Aluminium frame camp chairs
- Cooking utensils/pots/pans

HEAVY ITEMS

- Trestle table
- Steel frame camp chairs

DANGER

Exceeding manufacturer weight and combination limits can result in loss of control leading to death or serious injury. Your tow vehicle and hitch must be rated for the Gross Vehicle Weight of the trailer.

TOWING WILL AFFECT YOUR VEHICLE

The first step to safe towing is to ensure the vehicle, trailer and load are suited. While modern vehicles are lighter and provide better service for normal motoring, some do not have the necessary characteristics for towing. Vehicle manufacturers usually indicate in the owner's manuals the maximum weight and other features of trailers appropriate for the vehicle. These limits should not be exceeded. Similarly, some trailers are designed to carry certain types of loads and cannot be towed safely when carrying other materials. Other ways towing will affect your vehicle are:

- Decreased acceleration and braking performance
- Reduced vehicle control and manoeuvrability
- Increased fuel consumption.

These effects become more pronounced on your vehicle as trailer size and the mass of the load increase. By understanding the limitations of your vehicle and trailer, you can help prevent crashes and both structural and mechanical damage to your vehicle.

DRIVING WITH A TRAILER TAKES PRACTICE

- Allow for the trailer's tendency to 'cut-in' on corners and curves.
- Allow longer distances for braking, overtaking and joining a traffic stream.
- When reversing, it is advisable to have someone outside the vehicle giving directions.
- Avoid sudden lane changes or changes of direction.
- Look further ahead than normal so you can react to changes in traffic or road conditions.
- Use the accelerator, brakes and steering smoothly and gently at all times.

REAR MARKER LAMPS

If the combined length of your towing vehicle and caravan is 7.5 metres in length or longer, you may opt to fit a rear marker plate to the back of your caravan. It is only compulsory to display the "Do not overtake turning vehicle" if your vehicle and caravan is 7.5 metres or longer and needs to straddle lanes or turn from an adjacent lane in order to turn left or right at intersections. This can be either a separate sign located to the left hand side or incorporated in the left hand side marking plate.

Only vehicles 7.5 metres or longer are permitted to display a "Do not overtake turning vehicle" sign.



ADDITIONAL INFORMATION

Towing is very different from everyday driving - it requires additional driving skills and safety precautions. As a driver, you have a legal responsibility to other road users and yourself when towing a trailer, caravan or another vehicle, to drive to suit the conditions.

Also, the towing vehicle, trailer and its load must meet all legal and safety requirements.

REMEMBER

- Use the accelerator, brakes and steering smoothly and gently at all times.
- Use a lower gear when travelling downhill to increase vehicle control and reduce strain on brakes.
- Slow down well before entering corners and curves.
- Accelerator, brake and steering must be operated smoothly when towing. Unnecessary steering wheel

movement should be avoided because sway or “snaking” of the vehicle and trailer may result. If sway occurs the trailer brakes should be applied gently if they can be operated separately from the towing vehicle, otherwise a steady speed or slight acceleration should be maintained if possible, until the sway ceases. The tow vehicle’s brakes should only be applied as a last resort.

- Take care not to hold up traffic unnecessarily.
- Plan more rest stops and shorter travelling days as towing is more stressful and tiring than normal driving.

LEGAL REQUIREMENTS

To ensure the safety of yourself and other road users, you must abide by the laws governing the towing of trailers.

These are:

- The vehicle and trailer must comply with all relevant registration requirements;
- The vehicle and trailer must be in a roadworthy and safe condition;
- All trailers must be fitted with a rear number plate;
- Towbars and couplings must not obscure the towing vehicle’s number plate or rear lights when the trailer is not connected;
- Towing more than one trailer is prohibited;
- People are not permitted to ride in trailers or caravans
- The speed limit for a vehicle towing a trailer is the same as for a normal vehicle.

In the interests of reliability and safety, follow these rules and conditions:

- Ensure the vehicle is suitable for towing
- Ensure the vehicle is properly equipped for the type and size of trailer

TOWING VEHICLE

Apart from the added legal responsibilities for drivers, towing requires more knowledge and skills than normal driving. Drivers not experienced in towing need to make sure they understand the general principles of driving with a trailer before attempting to tow in traffic or at highway speeds. When towing, drivers should:

- Allow for the extra length and width of a trailer when entering traffic and allow for its tendency to “cut in” on corners and curves
- Apply the accelerator, brakes and steering smoothly and gently to avoid sway, especially in wet or slippery conditions.
- Allow for the increased effects of cross-winds, passing vehicles and uneven road surfaces on the vehicle and trailer combination.

DRIVER CONTINUED

- Leave a longer stopping distance to the vehicle ahead, increase the gap for longer, heavier trailers and allow even more distance in poor driving conditions.
- Engage a lower gear in both manual and automatic vehicles when travelling downhill to increase vehicle control and reduce strain on brakes;
- Reverse, if possible, with a person watching the rear of the trailer
- Pull off the road where suitable, to avoid a build-up of traffic unable to overtake.
- Be aware, when a heavy vehicle is overtaking the car/caravan combination, it will have a tendency to sway.

BEFORE YOUR HOLIDAY

There are a number of safety checks you should make before each trip.

These are:

- Inspect all tyres carefully.
- Carry out normal service checks of oil, water, brake fluid, battery and tyre pressure.
- Check the coupling is securely fastened and latched or screwed down when the trailer is connected to the towing vehicle
- Check safety chains are properly connected with attachments capable of withstanding the specified breaking load of each chain. Do not use padlocks. If two chains are fitted, cross them under the drawbar before they are attached to the towing vehicle. This provides better directional control of the trailer and helps prevent the front of the drawbar hitting the road if the coupling disconnects
- Check trailer brake and light connections are secure and all lights work
- Make one or two test stops from low speed to confirm the trailer brakes operate properly;
- Ensure all doors, hatches, covers and any load or equipment are properly secured
- Limit the mass of the load carried in the boot or luggage space of the towing vehicle.

DURING YOUR HOLIDAY

Soon after beginning each trip, stop in a safe location and make sure:

- Couplings and safety chains are still fastened
- Brakes and wheel-bearings are not overheating
- Light connections are secure and lights are still working
- Tyres are still inflated correctly and are not rubbing on the mudguards, suspension, trailer body and so on
- Loads doors, hatches, covers and so on, are still properly secured.
- On long trips, repeat these checks every two to three hours when taking a rest stop.

A final word of advice

When towing, ensure your trip is safer, better planned and more pleasant by:

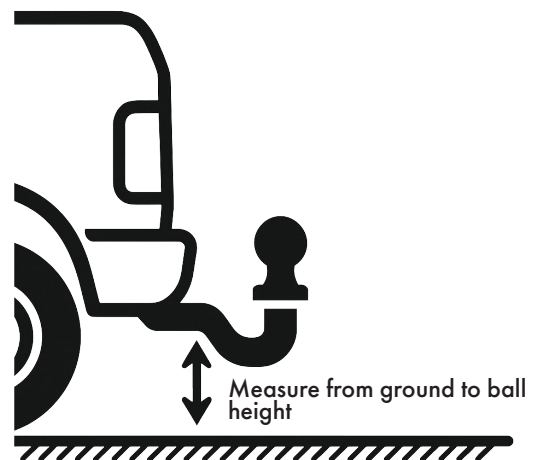
- Scheduling more rest stops and shorter travelling days for long trips
- Looking further ahead than usual to anticipate appropriate driving actions for traffic and road conditions.

ATTACHING THE TRAILER TO YOUR CAR.

1- Hitch / Tongue height.

The top of the ball on your car should be as close as possible to the towing height of the trailer, however if the trailer leans down this is okay. The Xplorer's ball height is 600mm.

Please note your trailer ball weight, if you want to guess how much the car will droop when you attach it to the vehicle, you can have an adult of average build stand on the back of the car and take a measurement.



2- D-Shackle Holes.

Every Hardkor camper and caravan comes with chains and shackles to secure the trailer to your car. 99% of vehicles have adequate sized holes but aftermarket tow bars or some cars cannot take the rated D-Shackle that is supplied.

Bolt

Please ensure the size of your D-Shackle hole is sufficient with a bit of extra wriggle room.

Xplorers use a 13mm bolt. | Caravans use a 16mm Bolt

3- Hitch / Tongue

When purchasing a hitch, please keep in mind which kind of vehicle you have.

Utes with trays may need a longer hitch than standard to clear the trailer when you are turning. Utes that still have the factory tub, or any other vehicle such as wagons, a standard size hitch will most likely be fine.

Cars with doors that swing left or right such as Toyota Prado's, Suzuki Vitara etc. You may want a longer hitch so you can still access the rear of your car while the trailer is attached.

4- Attachment

If you purchased a trailer with a AL-KO 50mm ball hitch, please ensure you have a ball on your hitch. If you purchased a trailer with a DO-35 hitch, the dealer will help install this on the day of handover.

ATTACHING THE TRAILER TO YOUR CAR CONTINUED

5- Electric Brakes

Your vehicle must be fitted by law with an electric brake controller, these are fitted by an auto electrician and come in varying styles. Make sure you stipulate which plug you have fitted to your dealer. A popular choice is the Redarc TowPro or Elec brakes brake controller.

6- Electrical Connections

At the front of your trailer there are 2 essential connections.

7 Pin Flat Connector

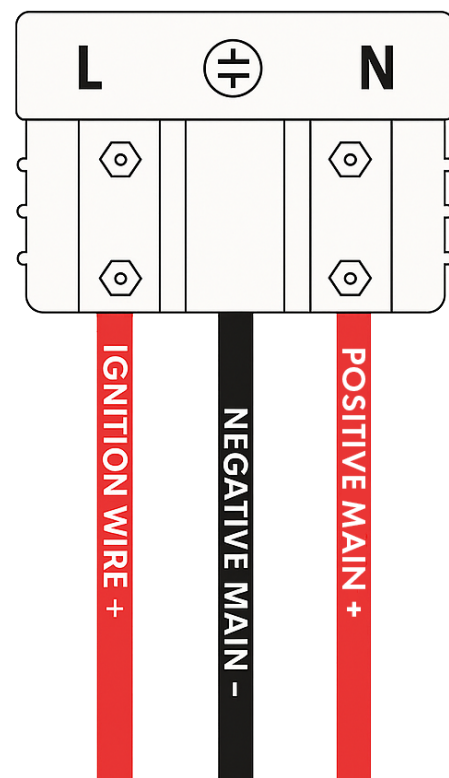
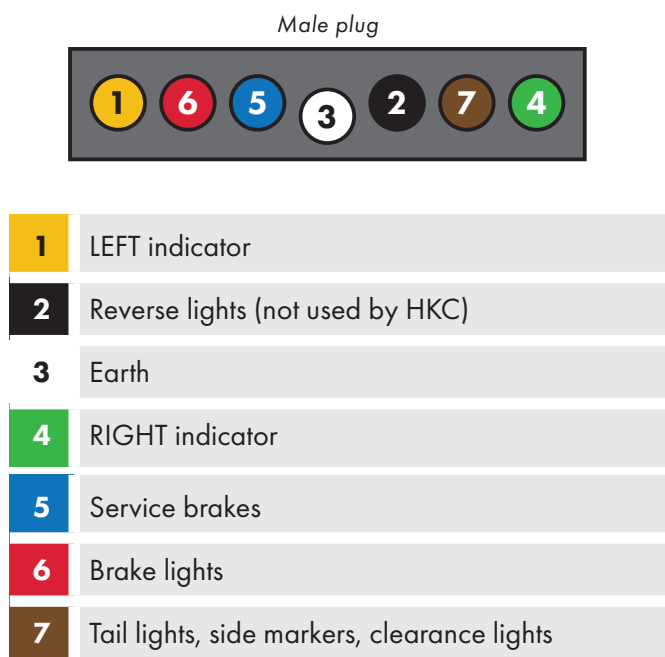
This controls your electric brakes, tailights and indicators, it does not charge your batteries or your safety breakaway system. Please note if you have a 12 Pin Flat Connector, the 7 Pin Flat will plug into the connector.

3 Pin 50a Anderson

You are most likely familiar with 2 pin Anderson fitting found on most tow vehicles, we fit a 3 Pin Anderson on the trailer for a few reasons.

- 1- It still connects up to a normal 50A Anderson and works as intended.
- 2- It is to be used in conjunction with a DCDC Charger. The third pin is essential for vehicles fitted with a DCDC Charger.

Please see below for these wiring diagrams



THINGS TO KNOW



BRAKES

Our campers are fitted with electric drum brakes and when new will take a short time to 'bed in' the brakepads. Be aware to adjust your brake controller accordingly as the brakes become more efficient to prevent over braking and heating the system. Keep a clear distance from vehicles in front of you as you get to know your safe braking distances and allow the brake pads to bed in.

JOCKEY WHEEL

Never manually move your camper with the jockey wheel raised above the dotted line on the shaft. These are not designed to have lateral loads applied whilst raised, if you are moving your trailer lower the jockey wheel to about an inch (25mm) from the bottom first.

RUBBERS AND LOCKS

Whilst all care is taken to properly adjust locks and latches to ensure your new camper is sealed properly, it is important to check these soon after purchase and ensure the seals are compressed 30-50% when locking doors and latching lids in place. If you are unsure how to adjust these please contact your dealer. Water that enters your camper through poorly adjusted locks and latches or through damaged seals is not covered under warranty.

OFF-ROAD DRIVING

When towing your camper off-road, it introduces a plethora of additional responsibilities and considerations for the driver. When journeying into remote areas, it's imperative to be equipped with an ample supply of spare parts and provisions to handle any unforeseen circumstances effectively.

Prioritise regular preventative maintenance and conduct thorough **daily inspections** without fail.

Essential trailer spare parts should include:

- Wheel bearings (see page 2)
- Seals
- Wheel studs and nuts

CORRUGATIONS AND ROUGH ROADS

Corrugated roads pose one of the most challenging and detrimental conditions for vehicles. The continuous vibration experienced can gradually loosen vehicle components, significantly stressing both vehicles and drivers beyond the usual strains of regular road driving. It is essential to take frequent breaks in such conditions to alleviate driver fatigue and prevent excessive wear on vehicles.

The intense heat generated on corrugated roads can pose a risk to shock absorbers, potentially damaging seals and leading to shock absorber fade, where damping effectiveness decreases, and in severe cases, seal failure. To mitigate these risks, it is crucial to adjust tire pressures on both the car and trailer, softening the impact and expanding the tire's contact area with the road surface, particularly on rough and corrugated terrain.

BULLDUST

This occurrence is frequently encountered on outback roads, where fine dust can accumulate in sizable potholes, concealing them from drivers who may not anticipate their presence. It is crucial to decrease speed in such conditions and exercise caution while driving to minimize the risk of damage or accidents. Remember to check and clean vent filters as needed.

SAND

When navigating sandy terrain, it's essential to adjust the tyre pressures on both the vehicle and trailer. This adjustment increases the tyre's footprint, minimising the depth of sinking into the sand.

Always bear in mind that lower tire pressure necessitates lower driving speeds. When reducing pressures to 20 psi or below, there's an increased risk of the tire's bead rolling off the rim, particularly during sharp turns.

CHOOSING A SPOT

There's no such thing as a perfectly flat piece of ground out in the bush, but your camper has stabiliser legs which can help with this. Choose a spot that doesn't have overhanging tree branches where birds and bats nest. Bat poo, especially, can be quite harsh on paint surfaces!

It's also worth noting that Gumtrees, in particular, have a bad history of shedding branches and damaging cars. Be wary of this!

LEVELLING THE CAMPER

On your camper is 4 stabiliser legs, please note these are for stabilising the camper and not raising it. The best way of levelling your camper is to bring some levelling blocks, pieces of timber or anything you can drive the camper onto.

SITE POWER

On the back of the Xplorer will be a black 240V 15A inlet. Using a 15A power lead connected to mains power, insert it into the inlet. From here, the power flows to an RCD before reaching an outlet.

SECURING YOUR CAMPER TRAILER

Something unfortunately not a lot of people consider is bringing a hitch lock and/or a wheel clamp. We recommend having these accessories so you don't have to worry about leaving your camper behind at the site when going on a day trip!

THE EASIEST SETUP YOU'LL EVER PERFORM

Scan the QR Code to watch a fast but informative set up video.



TROPICAL ROOF SETUP



SET UP

Step 1:

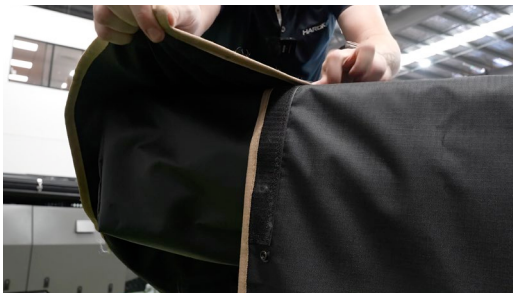
Ensure camper is still packed up; awning included.

Inside the camper will be a black bag which contains; 2x pieces of canvas, a pole, rope and ground pegs



Step 2:

At the front and passenger side of your Xplorer Double lift tent is a sail track. With the tent still collapsed, slide in both pieces of canvas into the sail track.



Step 3:

Before lifting the tent there is a piece of velcro which you will use to join the two pieces together, on the eyelets of the canvas you will need to attach the bungee cords / ropes.



Step 4:

Lift the tent and pull awning out of its bag.



Step 5:

before awning is tensioned, clip first bungee cord to the D loop on the 2nd awning arm, 2nd bungee to the canvas loop between arm 2 and 3 and finally the last bungee on the D loop on arm 4. Now you can tension the awning.



Step 6:

With the awning now set up, tie off one side of the canvas to the arm of the awning. The other side of the canvas you will need to set up with a pole, rope and ground peg.

AWNING WALL SETUP

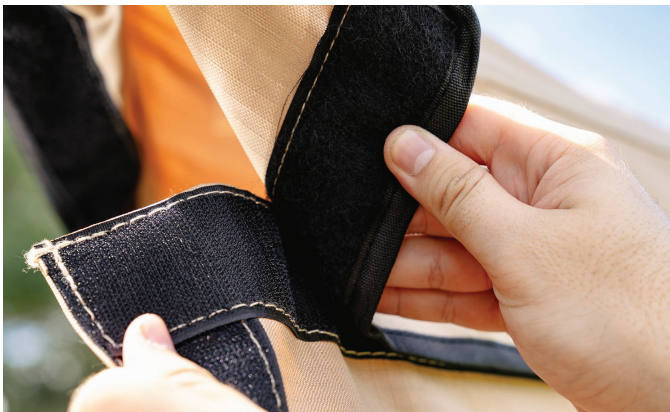
Depending on which walls you have, you will need the following;

- Awning wall
- Ground pegs
- Hammer
- Awning pole

SET UP

1. Install a pole to each awning arm where to help support the weight of the canvas as it hangs.
2. With the awning fully setup, attach it the awning wall to the awning edge using the velcro strips at the top of the awning walls.
3. Pull the awning wall out at an angle and secure it to the ground using ground pegs. You may need your hammer for this.

All done! Make adjustments where needed, but that's all you have to do.



INDUCTION COOKING AND KITCHEN SLIDE

The 2.3F comes equipped with a 3000W inverter and a 2800W induction cooktop, providing ample power for efficient, off-grid cooking and supporting a wide range of household appliances.



1	Power ON-OFF Switch
2	12v Cig, USB Power, light switch for illuminating logo
3	Utensil drawer
4	Induction hot plate
5	Tap and Collapsible sink
6	Dual 240v outlet powered from inverter to power any of your 240v appliances
7	Controller for 3000W inverter

HOW TO TURN ON THE INVERTER

1. First hold the power button for 4 seconds on the remote inverter controller located under the control panel box. (This will only switch on if the red power switch on the inverter is switched on)
2. Turn the big power switch on, located on the kitchen slide.
3. You're all set, now power will be sent to both the Induction hot plate and the dual 240v outlet.

IMPORTANT NOTES

Power to the hotplate is automatically switched off when the kitchen slide is retracted. However, we strongly recommend also turning off the main power switch located on the kitchen slide for added safety.

When storing the trailer, we advise switching off the inverter using the red switch on the unit.

Please note: This hotplate has a maximum power draw of 2800W when both plates are on at full power. This is near the limit of the 3000W inverter. If other appliances are plugged in or charging at the same time, the inverter may trip due to overload.

HOT WATER SYSTEM SETUP

- If you have purchased a hot water system with your Xplorer the unit will have come with premade hoses. In this kit there will be;
- Freestanding tripod
- Water T-Piece
- Green garden hose with hydraulic fitting
- Braided hose with hydraulic fitting
- Gas connector
- Batteries

SET UP

1. Set up the free-standing tripod, and then hang the hot water system on the stand
2. On the bottom of the hot water system there is two inlets and one outlet. Left side is **Gas IN**, Middle is **Water Out** and the Right side is **Water IN**. Using the provided gas lead, connect the gas lead to the left side of the unit, and connect the other side of the gas hose into the gas bottle.
3. With the green garden hose, connect the hydraulic fitting into the driver's side top water fitting on the draw bar, and the other side of the garden hose to the **Water IN** connection on the hot water unit. All you need to do now is connect the water outlet. We have designed this in a way where you can have water to the kitchen sink and to the shower head at the same time.
4. Connect the T-Piece to the unit. On one side of the T-Piece, connect the braided hose with hydraulic fitting to the drivers side draw bar bottom fitting, exactly the same way you did with the green garden hose. On the last outlet of the T-Piece, connect your shower head via a hose to the T-piece.
5. Turn the water pump on in the camper.
6. Turn the gas bottle valve open.
7. Turn on the hot water system.

For further information or troubleshooting advice, please contact Country Comfort.

CANVAS

When packing up your tent and awning, it's important to ensure they are clean and dry. Mould is extremely difficult to remove once it has set into the canvas, so spending a few minutes in the sun or wiping down with a towel or dry rag can make a big difference. If you encounter a leak in the canvas, use Seam Sealer to fix the issue. We also recommend placing a moisture absorber or container inside your packed tent to help remove any residual moisture and prevent mould growth during storage.

ZIPPERS (TENT/AWNING)

Never force a zipper - if it jams or binds up, pull it back a few inches and try again. We recommend keeping a can of **dry lubricant** handy in case the zippers become an issue.

CAMPER EXTERIOR

Just like your car, your camper should be taken care of just the same. The exterior is a hammer-tone electric plated finish so you don't have to be as careful with it, but for longevity basic soap wash and occasional buff/wax will keep your camper in great condition.

CAMPER INTERIOR

High humidity environments like North Queensland and cooler climates can create condensation, add some heat to that and you have the perfect environment for mould. For a few dollars at any grocery store, a moisture absorber stored in the tent and body of the camper will ensure no nasty surprises when you take your camper back out on your next holiday. If you are in a cold climate, open the top of the window zippers slightly to stop the condensation from your breath from being trapped inside the tent, if you don't open up some zips, in the morning you will notice moisture inside your tent roof and walls. A fan running through the night will also help prevent moisture in the tent.

CAMPER UNDER-BODY

No doubt at some stage you will want to do a beach camping trip! Even though the body of the camper is aluminium and chassis has been hot dip galvanised ensuring rust proofing, salt has a way of finding any nook or cranny that is unprotected. A couple of minutes spent with a spray can of **lanolin** works wonders, we recommend doing this before and after your trip!

BATTERIES

In contrast to standard batteries, lithium batteries benefit from being discharged as much as possible when stored for extended periods. Doing so can help maintain the condition of your batteries over time. At the conclusion of a trip, consider leaving some lights on in the camper to gradually discharge the battery to around 40% or 13 volts.

ISOLATING WATER TANKS

Under the body of your camper trailer you have two water tanks. The front water tank is 100L and the rear is 70L. In the first door on the drivers side of the trailer, on the opposite side of where your breaker switches are, theres two isolation valves.



The valve on the left, which is closest to the door, is the isolator for the front tank. The valve at the back is the isolator for the back tank.

If the valve is like the photo above, the valve is open. If the valve is like the photo on the right, the valve is in its closed position.

We recommend draining the two tanks together rather than individually. If the water pump starts to make noise once pressure is built or the water is extremely aerated one of the tanks may be empty.



USING A JACK UNDER THE CAMPER TRAILER

The Xplorer has no specific jacking point, but the best jacking point is under the control arm by the shock absorbers. The best and safest method for jacking the camper is as follows

1. Using an appropriate sized jack, raise the trailer up by the control arm near the shock absorbers.
2. When jacking the camper up, have the camper trailer's stabiliser legs being adjusted as you do this to touch the ground. This is not necessary but safety is paramount.
3. Once the camper is at your desired height, before going under the camper please ensure you have adequate safety measures in place, the weight of the camper being supported by the jack, stabiliser legs or both at the same time is not adequate.
4. Where possible depending on the circumstances, be sure to place a wheel, large rock or tree stump under the trailer while its jacked up, or if possible have jack stands on various points of the trailer chassis.

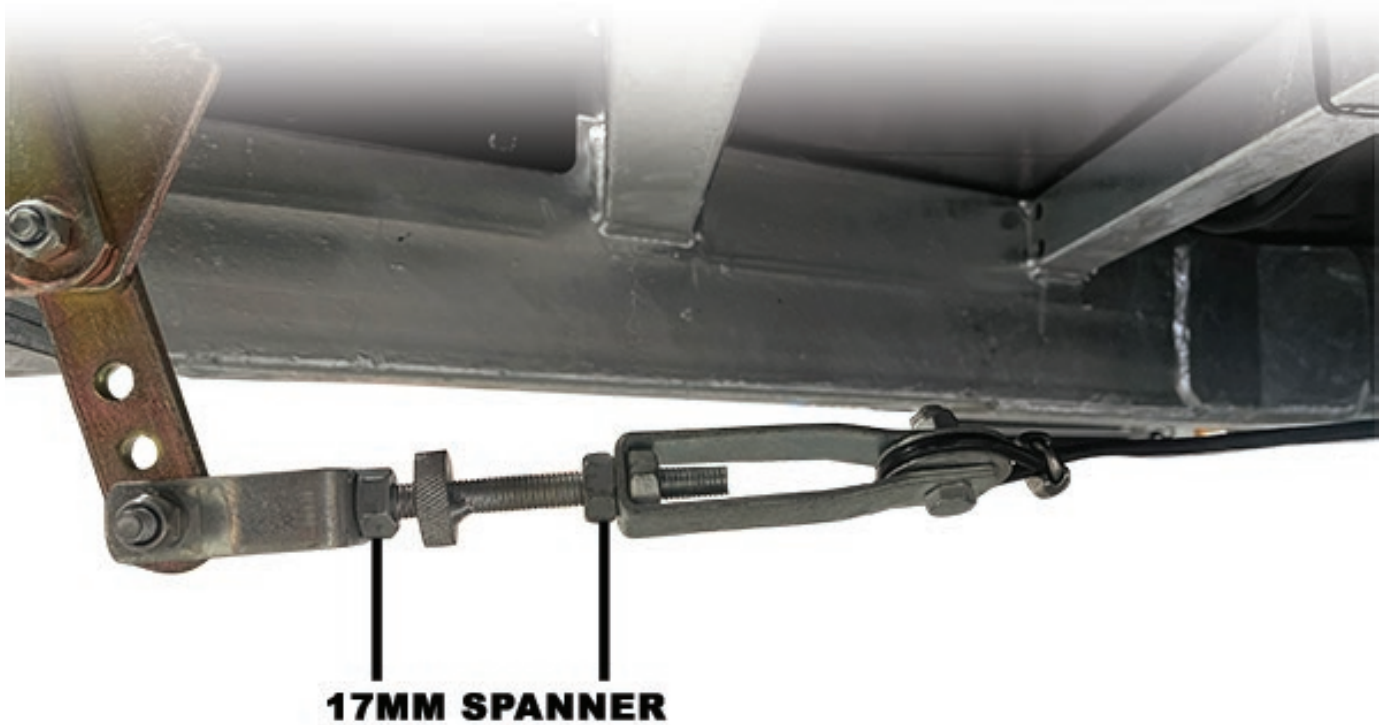


RECOMMENDED JACKING POINT

ADJUSTING THE HANDBRAKE

Naturally as your camper ages your handbrake is going to require adjusting. Loosen off the two 17mm nuts and close the gap between them by rotating the round disc on the bolt, pull the handbrake and check for tension. Once happy tighten the nuts back up.

Please note that you do not want this too tight. If done up too tight you may cause unnecessary wear to the brake pads.



DUST-PROOFING THE CAMPER TRAILER

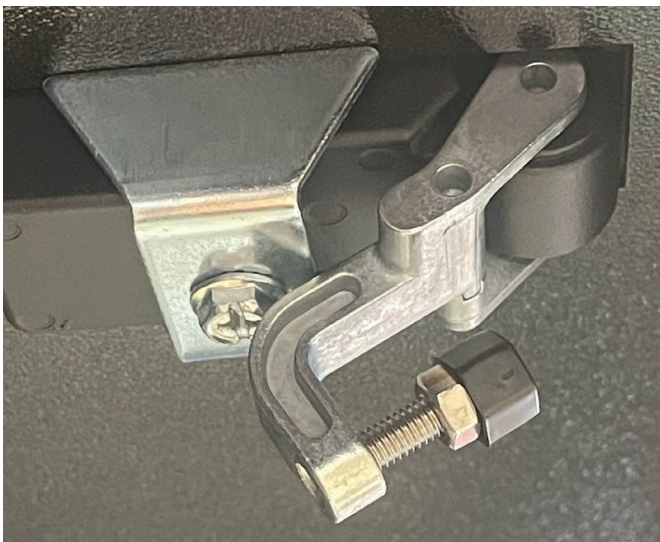
On each door of the Xplorer there are three door locks which are all adjustable. Using a 10mm spanner, loosen the locking nut. By winding the bolt outwards, this will increase the clamping force of the lock against the body of the trailer which will result in the door rubbers being squished more. There is no set limit as this will be done by feel. Please note leaving the door rubbers set for the entirety of the campers life will reduce the effectiveness of these rubbers, in storage it is best to loosen off the bolts to keep the rubbers plush.



Door Lock



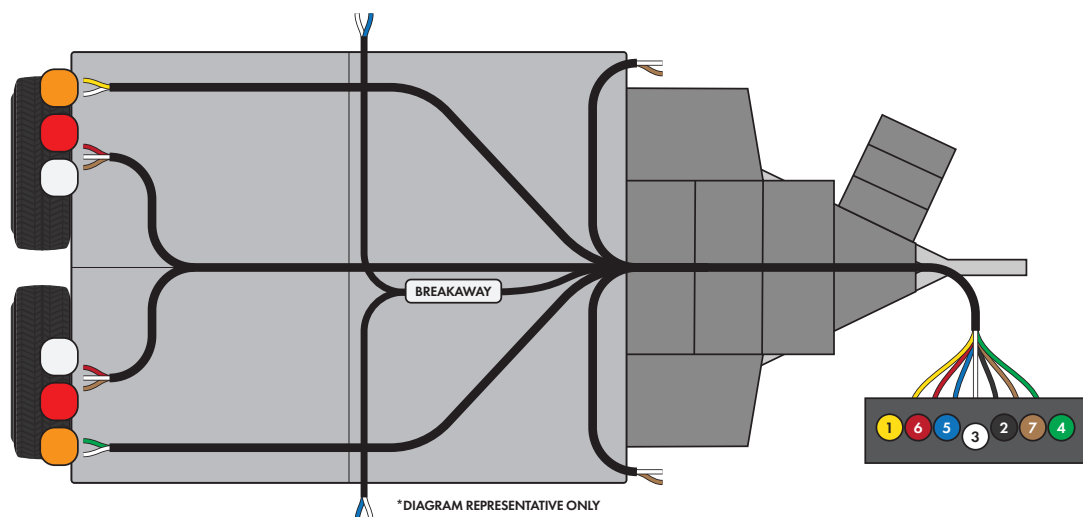
10mm spanner on locking nut



Bolt wound all the way out for maximum pressure

TRAILER PLUG WIRING

The below pin-out diagram can be used to diagnose any faulty connections if one or more lights in the camper trailer are not functioning.



Male plug



1	LEFT indicator	5	Service brakes
2	Reverse lights (not used by HKC)	6	Brake lights
3	Earth	7	Tail lights, side markers, clearance lights
4	RIGHT indicator		

Please note: All lights have been tested before delivery of your camper trailer.

CONNECTION TERMINOLOGY



FEMALE WATER CONNECTOR

1/4" ISO-B Hydraulic hose
quick coupler plug.
(stainless steel - ISO 7241-1 B)



MALE WATER CONNECTOR

1/4" ISO-B Hydraulic hose
quick coupler plug.
(stainless steel - ISO 7241-1 B)



SOLAR PANEL INPUT

WS20 2-pin electrical aviation
connector (female).



7-PIN FLAT CAR CONNECTOR

Male 7-pin flat connector for
trailers/caravans.



3-PIN ANDERSON PLUG

3-Pin 50A Anderson-style plug for
DC-DC charging.



240V 15A MAINS INPUT

15A plug connection found
at caravan parks or powered
campsites.

CONTROL PANEL FUNCTIONS



WATCH OUR
VIDEO TUTORIAL



1	Hardkorr Battery Monitor	5	Main Power Isolator
2	USB 2.0, USB 3.0, 12v Cig	6	Water Meters
3	Water pump switch, lighting switches, fan switch	7	Rear Light Switch
4	Reset Switches		

1. The battery monitor will show you everything you need to know regarding the status of your battery. It will display how many amp hours you have left, how long you can last until you're dead flat, and will show you the charging and discharge status in real-time. If you have an inverter, you can also use the display to gauge how many watts you are drawing. For more information, scan the QR Code.
2. USB ports that you can use to charge electronic devices such as phones or tablets. They will have a built-in blue light. When power is supplied, this blue light will turn on. Beside the USB ports is a 12v cig that you can use for 12V accessories.
3. By pressing the water pump switch, it will turn the pump on. The pump will automatically stop drawing power once it builds pressure. It is highly recommended that you do not travel or leave the trailer unattended with the pump switch turned on.

You will know the switch is on via the blue LED ring around it. The kitchen light switch simply allows power to flow through to the mini control panel on the pull-out kitchen.

The light switch simply allows power to flow through to the lights on each door of the camper. This does not turn your lights on and off. If your lights do not turn on by pressing this switch, you have to manually turn your lights on via the dimmer switch near the light located on the door.

4. These are reset switches, if you ever find there is a fault with the water pump or the fan does not work, try pressing these reset switches.
5. This is the main isolation switch for all the accessories the control panel features.
6. On the left is your 100L water meter. On the right is your 70L water meter.
7. This is your rear light switch that will turn on the rear reverse lights as a flood light.

ISOLATION SWITCHES

Your Xplorer camper is equipped with two key isolation switches for safety and system management:

80A Isolation Switch (Located Behind the Inverter):

This switch is designed to isolate the 12V battery system when performing maintenance or installing additional 12V outlets or devices. Note: The inverter will remain operational even when this switch is turned off.

300A Inverter Isolation Switch (Located Behind the Inverter):

This switch protects the system by cutting power if a load exceeding 300 amps is drawn from the batteries. If this occurs, disconnect any high-draw appliances and reset the switch by turning it back on.

WATER PUMP

Our campers are equipped with a pressure-lock water pump system. To activate the pump, simply press the water pump button on the control panel. If all taps are closed, the pump builds and maintains pressure without running. Once you open a tap, the pump automatically starts to deliver water.

Important: Always switch off the water pump when leaving the trailer. If the pump is left on and a water line is damaged—such as by a rock while traveling—it could result in your fresh water tank draining completely and the pump burning out.

FAN SWITCH

We've mounted a 12v electric fan on the camper door near the kitchen, serving two key purposes: to help keep the interior cool in hot conditions and to reduce dust ingress while traveling. In warmer weather, the fan draws in cooler outside air, circulates it through the camper, and pushes it out through the opposite vent to improve airflow and comfort inside. When driving on dusty roads—such as the bulldust-filled tracks of central Queensland—the fan can also be used to pressurize the camper's interior and help prevent dust from entering. For dust prevention to work effectively, the opposite vent should be sealed to maintain internal pressure.

USING 240V MAINS POWER

Connect the 15A power lead to the rear inlet of the trailer. Incoming power will pass through a 15A RCBO circuit protector, then feed a dual 240V outlet located nearby. Note: This outlet is powered by shore power only.

From the RCBO, power also continues to a heavy-duty 25A battery charger, which automatically begins charging the batteries once the camper trailer is connected to a power source.

Additionally, there is a separate dual 240V outlet located under the control panel. This outlet is powered exclusively by the inverter and will only function when the inverter is turned on.

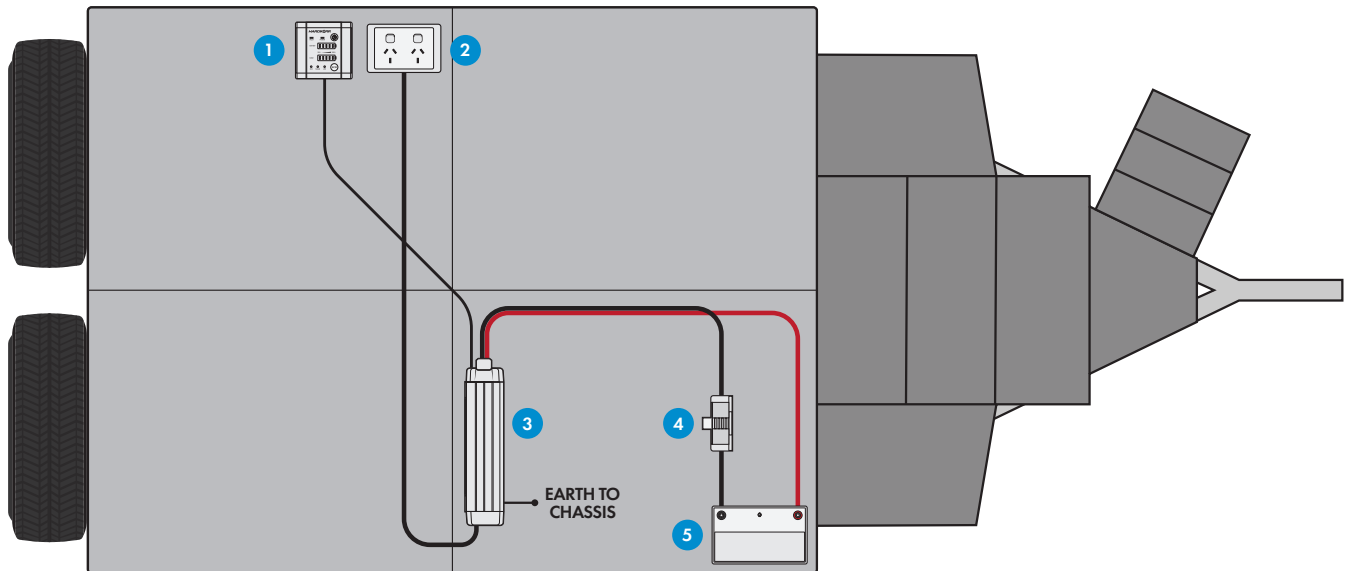
USING THE DC-DC CHARGER

The DC-DC unit installed in your camper serves two primary functions: solar and vehicle charging. What's even more convenient is its automatic feature, which selects between solar and vehicle charging based on the power output. For instance, if you're driving and your solar input is at +10A while your vehicle input is at +15A, the system will prioritize the vehicle input over solar. However, it's important to note that the unit will not combine both inputs to reach a total of +25A. The 2.2E features 2 solar inputs one at the rear and one at the front seen in diagram.

3-PIN ANDERSON-STYLE PLUG WIRING

You will require a 3-pin Anderson to use with your DC-DC Charger. We use a 3-Pin so when you turn your car off, the DC-DC knows to turn off and not drain the battery flat in your vehicle.

INVERTER WIRING DIAGRAM



NOTE: THERE WILL BE BREAKERS / FUSES ON THE MAIN POSITIVE CABLE FROM THE INVERTER TO THE BATTERY.

1 INVERTER REMOTE

Used in conjunction with the inverter, often a telephone cable style mounted to the front or rear of the inverter.

2 240V WALL OUTLET

Connect your 240V appliances to power when the inverter is switched on.

3 INVERTER

Used to convert 12V power to 240V power.

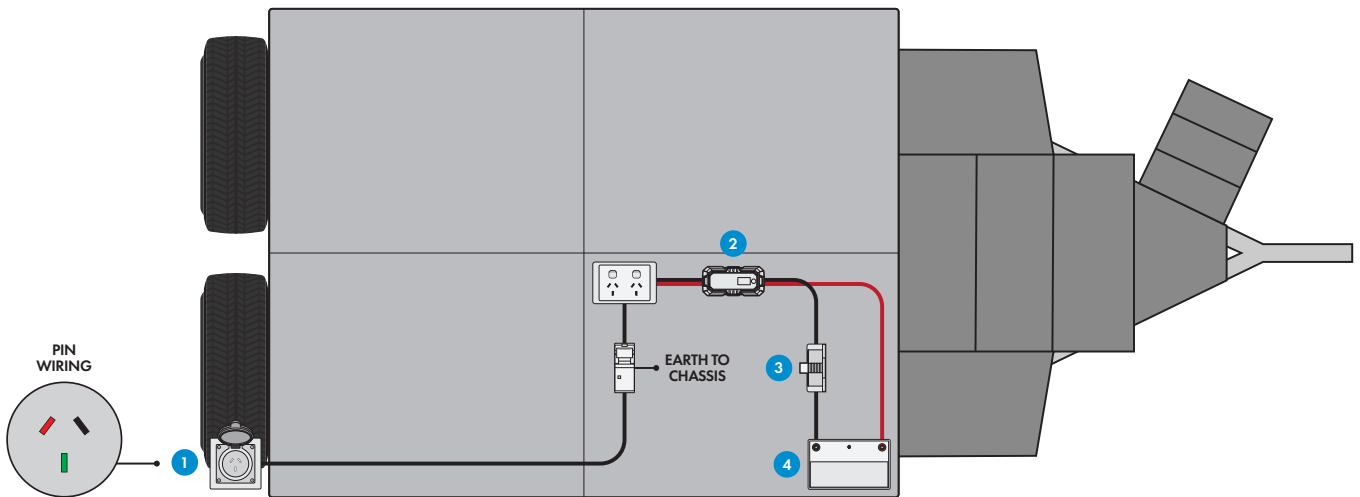
4 SHUNT

Used to measure power coming into and out of the trailer battery system.

5 BATTERY

Power your 12V/240V electrical devices with the power from the battery.

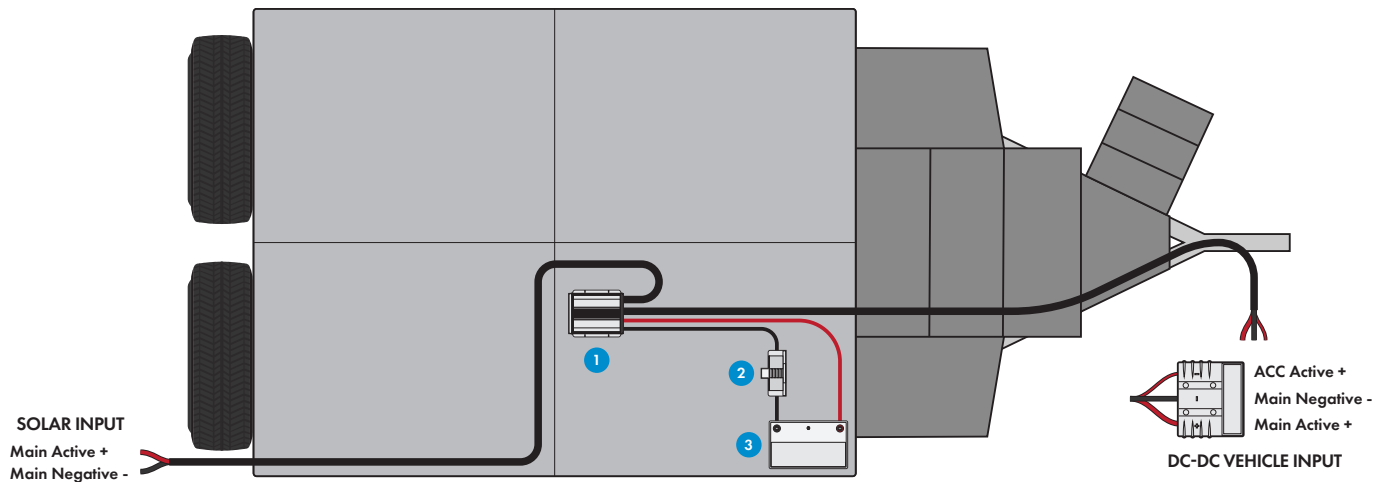
240V INLET WIRING DIAGRAM



NOTE: THERE WILL BE BREAKERS / FUSES ON THE MAIN POSITIVE CABLE FROM THE CHARGER TO THE BATTERY.

- 1 240V 15A INLET**
Feeds 240V power from mains to the charger via the RCBO/wall outlet.
- 2 AC CHARGER**
Used to charge your battery from mains power.
- 4 SHUNT**
Used to measure power coming into and out of the trailer battery system.
- 5 BATTERY**
Power your 12V electrical devices with the power from the battery.

DC-DC CHARGER CONNECTIVITY



1 DC-DC CHARGER

Serves as both a charging point for the battery via the vehicle's alternator, as well as a regulator for the solar-generated power.

2 SHUNT

Used to measure power coming into and out of the trailer battery system.

3 BATTERY

Power your 12V electrical devices with the power from the battery.

SOLAR INPUT BREAKER: 40A

3 PIN ANDERSON BREAKER: 50A

DCDC OUTPUT BREAKER: 50A



We only use Hardkorrr branded batteries, solar panels, chargers etc. As technology progresses we are always updating the products we use in our campers. If you cannot find the manual of your charger or battery please visit the Hardkorrr website at www.hardkorrr.com/au

40A DC-DC CHARGER

We use the Hardkorrr DC-DC charger which controls 2 charging functions. Solar and Vehicle. When driving along, your car will be charging your batteries in the trailer or when you're parked up, charging from your solar panels.



BATTERY MONITOR

This battery monitor displays essential information such as battery voltage, live current draw (A) and charge level (Ah and %) through its full-colour LCD screen or by connecting your smartphone via Bluetooth. A=Amps | Ah= Amp Hours



3000W INVERTER

Bring the convenience of your favourite appliances from home with you whether you're touring the country, on a weekend away, or on the job site. Capable of charging your everyday devices or powering appliances like your coffee machine or induction cooktop, our 3000W inverter is perfect for those wanting to work or live out of their 4x4, caravan, or camper trailer.



135AH LITHIUM BATTERY

Our latest range of 135Ah lithium (LiFePO₄) deep-cycle batteries are the most reliable, technologically-advanced batteries we have ever manufactured. With Bluetooth® monitoring, outstanding performance characteristics, full international certification and 135Ah of usable power into a standard Group 27 (N70) size case, you'll never be caught short of 12v power again!



25A BATTERY CHARGER

Charge your batteries from AC/mains power with our 240V Battery Chargers. Equipped with an automatic 9-stage charging system, our chargers are designed to quickly get your batteries up to health. The charger can be used with 12V SLA, AGM, calcium, and LiFePO₄ batteries.



170W SOLAR PANEL

Our high-quality 170w fixed solar panels will fit neatly on the roof of a 4wd, caravan, camper trailer or boat. Being only 17mm high, they are aerodynamic and weigh about 30% less than regular 30mm high fixed panels.



HOW TO VIDEO
PLAYLIST



YOUR WARRANTY

HKC warrants that, subject to the limitations and exclusions below, all parts of our manufacture or assembly of the Camper Trailer are free from defects in material and workmanship for a period of:
Trailer Structural Chassis - 5 years

All others carry a manufacturer – 12 month warranty unless otherwise stated from the date of purchase. Any shortcomings in the original material or manufacture will be corrected without charge to the original purchaser for parts and labour incurred in that rectification. If work under this warranty is required, the purchaser should immediately contact the selling distributor to make arrangements for the repairs.

All repairs must be approved before works commence in writing. The warranty is not transferable to a subsequent purchaser if the Camper Trailer is sold by the original purchaser during the warranty period. Your HKC comes with guarantees that cannot be excluded under the Australian Consumer Law. The benefits within our Warranty are in addition to other rights and remedies under the Australian Consumer Law in relation to this product.



12 MONTH WARRANTY	Canvas, electrical components, breakers, fuses and wiring
2 YEARS WARRANTY	Body and Suspension
5 YEARS WARRANTY	Chassis
MANUFACTURERS WARRANTY	Hardkorr accessories and other 3rd party items.

IN THE UNLIKELY EVENT THAT YOU ARE STRANDED, WE DO NOT PROVIDE RECOVERY OR ROADSIDE ASSISTANCE. YOU WILL NEED TO TOW YOUR CAMPER TRAILER TO A REPAIR AGENT AT YOUR OWN EXPENSE.

IDENTIFY THE ISSUE

Before initiating any warranty process, carefully assess and document the problem. Make note of:

- Product details (model, serial number, purchase date)
- A description of the issue
- When the problem started and under what conditions

This information will be essential for the next steps.

If the problem you are experiencing is related to a third-party accessory (e.g. a fridge or hot water system), you will need to contact the manufacturer directly. However, if the issue is with the camper trailer itself (e.g. suspension components, tent, or awning) or a Hardkorrcampers electrical accessory (e.g. DCDC charger), you can contact Hardkorrcampers.

CONTACT US FOR SUPPORT/HELP

You must follow the correct process to have your warranty claim resolved. All issues must be reported through our customer support team using the online support portal below. This is the only way to have your claim reviewed and resolved efficiently.

Online Support Portal: hardkorrcampers.com.au/warranty-policy/

LOCATE A SUITABLE REPAIR AGENT

If the issue cannot be resolved remotely, we will assist you in finding a repair agent. We may:

- Recommend authorized repair centers
- Provide you with a list of certified service providers
- Verify if your preferred technician is qualified for the repair under warranty.

Since many of our customers require warranty services while traveling, we strongly recommend that you choose your own repair agent. This allows you to manage the process according to your schedule and travel plans.

SEND QUOTE TO US FOR ACCEPTANCE BEFORE COMMENCING WORK

Once the repair agent has assessed the issue, ensure they provide a detailed quote. This quote should include:

- Breakdown of parts and labor costs
- Estimated time for completion

Send this quote to us for review and approval before any repair work begins. We will notify you of our acceptance or request further clarification if necessary.

HAVE THE ISSUE FIXED

After receiving approval from us, the repair work can proceed. The repair agent will:

- Fix the issue based on the approved quote
- Provide any required documentation, such as repair receipts or reports.

Once the repair is complete, send us a photo of the repair receipt for reimbursement. Ensure that the receipt clearly shows the total cost, date, and repair agent details.

VERIFY THE FIX

After repairs are completed, check that the product is functioning correctly and that the issue has been fully resolved. Keep all documentation for your records in case further follow-up is needed.

For further assistance at any point, feel free to contact our support team.

THIS WARRANTY DOES NOT APPLY IF THE DAMAGE OCCURS BECAUSE OF:

- Accident
- Fair wear & tear
- Misuse, neglect or abuse
- Storm damage or other acts of Nature
- Unauthorised repairs made or attempted

Should a warranty claim become necessary during the warranty period then the product should be returned to the place of purchase or the nearest HKC authorised dealer at the cost of the purchaser. The warranty covers the original Camper Trailer only. It does not cover the following items:

1. Appliances and equipment which are not manufactured or supplied by HKC (for example a refrigerator, freezer or customer modifications) are covered by the warranty of such items for the term offered by the manufacturer of such items.
2. Any defect resulting from overloading, misuse, negligence, accident or other cause beyond the direct control of HKC.
3. Any defect resulting from fitting or installation of any accessories or options such as an altered tool box or other items after the camper trailer has left the premises of HKC.
4. Any rectification or other work required due to alterations in Local, State or Federal legislation which occurs after manufacture of the recreation vehicle.
5. Any consequential damages or repair work necessitated due to continued usage or towing after a defect has, or should have, become apparent to the purchaser or user.
6. Any accommodation or re-location expenses including fuel/freight. Loss of earnings or rents or other costs incurred before or whilst repairs under this warranty are being affected.

NOTE: This manufacturer warranty does not cover general consumable parts on the Camper Trailer and rust on any painted surfaces of the trailer or any of its components. (E.g. axles, bearings, springs, couplings and jockey wheels.)

TENTS

Tents are guaranteed to be in new merchantable condition at the time of purchase. General wear and tear is exempted. Zips and mesh or screens are not covered. General Consumables: (e.g. bearings, light bulbs etc)

TRANSIT

HKC is not liable for any loss, theft, or damage to any goods in transit; however, we are happy to help in resolving shipping issues if reported to us within 12 hours of delivery.

TYRES

HKC is not liable for uneven tire wear, which is not covered under warranty.

MAINTENANCE SCHEDULE

ITEM / COMPONENT	3 MONTHS / 1,000km	6 MONTHS / 5,000km	12 MONTHS / 10,000km	18 MONTHS / 15,000km	24 MONTHS / 20,000km	30 MONTHS / 25,000km	36 MONTHS / 30,000km	42 MONTHS / 35,000km
BATTERY CONDITION	T	T	T	T	T	T	T	T
BRAKE CABLE	I/A	I/A	I/A/L	I/A	I/A/L	I/A	I/A/L	I/A
HITCH	A	I	I/L/A	I	I/L/A	I	I/T	I
HV POWER SYSTEM	T	I	I/T	I	I/T	I	I/A	I
JOCKEY WHEEL	A	I	I/A	I	I/A	I	I/A	I
LOCKS AND HINGES	I/A	I	I/L/A	I	I/L/A	I	I/T	T
LPG SYSTEM	T	T	I/T	T	I/T	T	I	I
PANEL AND PAINT	I	I	I	I	I	I	I/T	I/T
PLUMBING SYSTEM	T	I/T	I/T	I/T	I/T	I/T	I	I
SEALS AND GROMMETS	I	I	I	I	I	I	I/T	I/T
SIGNALLING LIGHTS	I/T	I/T	I/T	I/T	I/T	I/T	I/A	I
STRUCTURAL FIXINGS	A	I	I/A	I	I/A	I	L	L
SUSPENSION BUSHES	I	I	L	I	RCL	I	A	A
SUSPENSION TORQUE	A	A	A	A	A	A	I/A	I/A
TYRE PRESSURE	I/A	I/A	I/A	I/A	I/A	I/A	C	C
VENT FILTER	C	C	C	C	C	C	I/A	I/A
WHEEL ALIGNMENT	I/A	I/A	I/A	I/A	I/A	I/A	RCL	A
WHEEL BEARINGS	A	A	RCL	A	R	A	I/A	I/A
WHEEL NUTS	I/A	I/A	I/A	I/A	I/A	I/A	I/A	I/A

RCL	Remove/clean/lubricate	C	Clean	R	Replace	I	Inspect
L	Lubricate	A	Adjust	T	Test		

Regular use
Extreme (off-road) use

LIFE
WITHOUT
LIMITS