



TOW VEHICLE PREPARATION

Thanks for your purchase of a Vataioner Caravan from InsideOutRV.

This information is intended to ensure a smooth process getting your vehicle ready to tow your caravan.

Tow Vehicle	<p>We recommend your vehicle has a tow rating of 3000-3500kg. Our caravans are also designed to have 9-10% of the caravan weight on the tow ball. This allows them to tow nicely and usually negates the need for any Electronic Stability Control aids.</p>
Tow Ball	<p>You will need a 50mm tow ball fitted. We can assist with set up at handover time and will have some removable receiver/tow ball/riser hitch options for purchase if required. If you have specified an off-road DO-35 hitch fitted to your caravan, we will supply you with a suitable pin.</p>
Brake Controller	<p>You will need an electric brake controller fitted in your vehicle. There are several options available and the choice is up to you. We use and recommend the REDARC TowPro. We can supply these for \$425. This needs to be installed by an auto-electrician prior to collection of your caravan. They will be able to supply a wiring loom for your vehicle, and install which ever electronic brake controller you have chosen.</p>
Reverse/Rear View Camera	<p>All InsideOutRV caravans normally include a wired reverse/rear view camera. These enable you to see behind your caravan while you are travelling (rear view camera). When your vehicle is in reverse, the camera switches to 'reverse camera' mode, which can provide audio input from behind your caravan. We will send you a monitor approx. 1 month before handover so that you can get this installed in advance, by an auto-electrician. A wiring loom will normally also be supplied.</p>



Charging

It is not essential to charge the caravan batteries with your vehicle as InsideOutRV caravans have plenty of solar power input. If you want higher current (faster) charging while you drive, you can use an Anderson Plug. These come standard with InsideOutRV caravans. To utilise this you will need to get a 50 Amp female Anderson plug hardwired into your vehicle.

We also recommend a device that protects and gives priority charging to the vehicle starting battery. When that is fully charged, your vehicle alternator can start charge the caravan battery.

We use and recommend REDARC BCDC available at \$604ea

7/12 pin plug

Our caravans are fitted with a 12 pin plug as standard. We can fit a 7 pin plug on request, especially if you have a compressor fridge then it can run (as usual) off the caravan batteries/solar as you travel. If you have a 3 way fridge you can have the fridge switched off (not on 12v) while you travel. The fridges are so well insulated that they don't lose much chill. See below wiring diagrams for trailer plug options.

Wheel nuts

We recommend you have a Torque Wrench and a 19mm socket to check your wheel nuts are secure and set.

These should be set 135Nm.

Over-tightened and under-tightened wheel nuts can be dangerous, and it is advisable that these get checked regularly. A visual check of the wheel nuts, wheels and tyres is highly advised after every stop on your journeys.

12 PIN PLUG WIRING

OBSIDIAN				
NUMBER	FUNCTION	COLOUR	REQUIRED	WIRE THICKNESS
1	LEFT HAND INDICATOR	YELLOW	YES	3MM
2	REVERSE SIGNAL	BLACK	NO	3MM
3	GROUND - EARTH	WHITE	YES	3MM
4	RIGHT HAND	GREEN	YES	3MM
5	SERVICE BRAKES	BLUE	YES	3MM
6	STOP LIGHTS	RED	YES	3MM
7	CLEARANCE LGTS	BROWN	YES	3MM
8	CHARGE WIRE	ORANGE OR RED	NO	8MM
9	FRIDGE	RED	RUN THROUGH BMS	6MM
10	GROUND - EARTH	WHITE	NO	8MM
11	AUX		NO	
12	AUX		NO	

IF YOU CHANGE TO A 3 WAY FRIDGE PIN 9 IS REQUIRED

Colour Wiring Diagram & Circuits for KT1243

8 ORANGE: Battery Charger / Winch
9 PINK: Auxiliary / Battery Lead
10 WHITE: Earth
11 GREY: Rear Fog Lamp
12 VIOLET: Auxiliary
1 YELLOW: Left Indicator
2 RED: Stop Brakes
3 BLUE: Service Brakes
4 WHITE: Earth
5 BLACK: Reverse
6 BROWN: Tail Lights
7 GREEN: Right Indicator

View of 12 Pin circuits when opening dustproof cover.

ANDERSON PLUGS	WIRE THICKNESS
<p>BLACK ANDERSON PLUG IS FOR POWER DISC BREAKS</p>	6mm
<p>GREY ANDERSON PLUG IS FOR CHARGING FROM CAR TO CARAVAN</p>	8mm
<p>RED ANDERSON PLUG IS FOR POWER TO ESC</p>	4mm

REAR VIEW CAMERA

5 PIN

<p>DISCLAIMER: ESC STABILITY CONTROL CAN NOT BE TO SOME CRUISEMASTER SUSPENSIONS PLEASE CHECK WITH YOUR DEALER</p>	<p>DISCLAIMER: THESE ARE OUR STANDARD PLUGS IF THERE IS CUSTOMIZATION TO VAN THIS MAY CHANGE DIAGRAM. SOME PLUGS MAY HAVE VIOLET WIRE TO PIN 11 OR 12 THIS IS ONLY FOR LED DISPLAY FOR BREAK SWITCH TO BE DISPLAYED IN CAR</p>
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