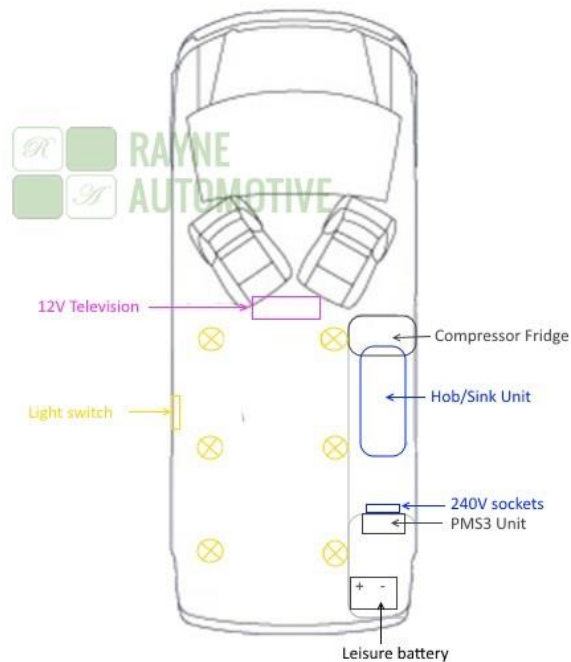




## PMS3 Wiring & Split Charge Kit Fitting Instructions

Thank you for your purchase, and we hope you'll be satisfied with your product.

If you have any queries on the fitting process, please don't hesitate to drop us an email at [Info@RayneAutomotive.co.uk](mailto:Info@RayneAutomotive.co.uk).



### *Fitting the split charge kit*

It is advised for safety purposes that you leave affixing both ends of the kit until last to avoid working with live wires where possible. It is also recommended that both the earth terminals are disconnected from the two batteries for safety reasons.

Begin by using the two screws provided (in the relay base) to mount the relay onto a suitable surface. Ensure that it has space around it to allow air to flow for cooling and that it won't be subjected to extreme heat. The relay is waterproof, but avoid exposing it to the elements.

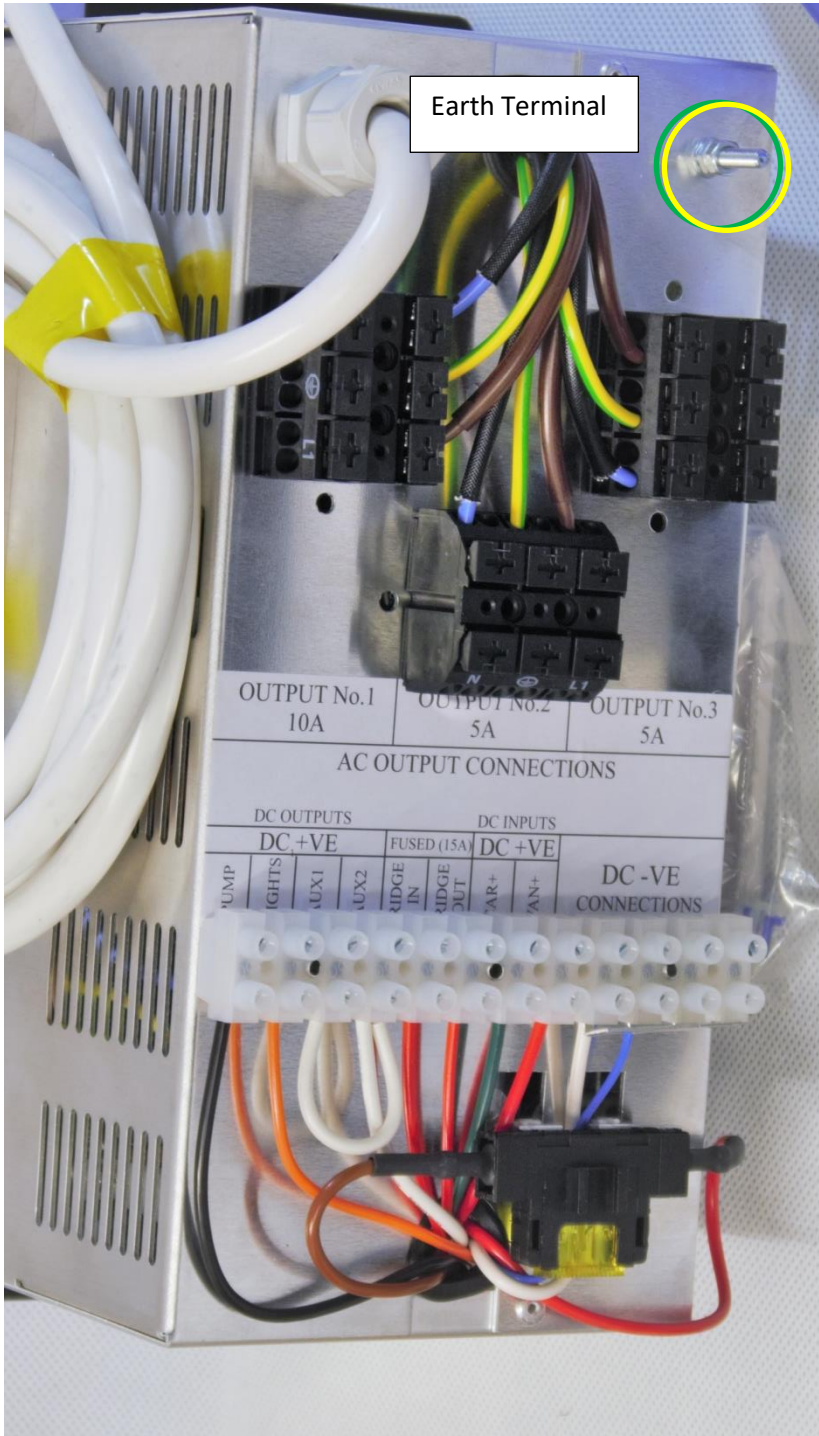
Then proceed to run the heavy duty BLACK wire through the van before heading through the bulkhead into the engine bay, ensuring a suitable rubber grommet is used to protect the wire. Always ensure throughout the routing that the wire will not be subject to extreme temperatures or abrasion. *(Tip, if you unbolt the fuse holder from the end of this lead it becomes much easier to route through the vehicle.)*

Leave the connections of the battery terminals until later for safety reasons.

### Wiring into your PMS3 unit

The first and foremost thing to consider when wiring in the PMS3 unit; is to heed all safety advice that comes with your PMS3 unit. These looms do not overrule or negate these warnings in any way.

From here, we have supplied all of the 12V wiring looms to get your campervan up and running, each loom is colour coded as follows;



<u>Colour</u>	<u>PMS3 Connection</u>
White	Fridge Out
Black	Fridge In
Red	Car +
Red	Van +
Yellow	Lights
Blue	Pump
Purple	Aux 1
Orange	Aux 2
Black	DC -VE Connections

In the picture (left), the earth terminal is marked. In your kit you will have a black wire approximately 20cm long, with a 4mm ring terminal on one end. Run this wire from the DC -VE connections blocks onto the earth terminal.

Also on the earth terminal, connect the green/yellow wire, also with the 4mm ring terminal on one end. The other end of this wire should be earthed to the chassis. (if you are unsure on how to make a good earth connection, check out our blog on [www.rayneautomotive.co.uk](http://www.rayneautomotive.co.uk) )

After you have wired the back of your PMS3 unit you will need to run each of your wiring looms to its' respective location detailed in the diagram above and table below;

<u>Wiring loom colours</u>	<u>Destination</u>
Red/Red/Black	Leisure battery positive
Green/Yellow	Van Earth
White/Black	Fridge
Yellow/Black	Light Switch/Roof Lights
Grey/Green/Black	Water Pump/Tap Switch
Purple/Black	12V Television
Orange/Black	Hob ignition

Now connect your new positive battery terminal to the + side of your leisure battery and connect the 8mm ring on the heavy duty BLACK wire to the + side of your engine/main battery. Connect the thin black wire from the relay to a good earth point (the leisure battery earth terminal will do nicely)

This is the end of the 12V wiring instructions. If you are unsure of how to make good connections or need any advice here, please don't hesitate to get in touch.

Now you are working on the 240V side of the connections. (Note: It is extremely important to note; that with 240V electrics, the LIVE is BROWN, the NEUTRAL is BLUE and the EARTH is GREEN/YELLOW) (If you are in anyway unsure at this stage, please have a qualified electrician complete the 240V install.)



Here we have 3 outputs, each fused by the MCBs located inside the PMS3 unit.

Typically; output No.1 would be for the radially linked sockets, No.2 for any 240V lighting or another smaller radial circuit and No.3 would be for the fridge/charger.

Select your socket locations and cut your cable to the correct length to reach from the PMS3 unit to the sockets.

Strip the outer sleeve of your flex and connect the Brown into L1, the Blue into N and the green/yellow into Earth.

Repeat the process on the back of each outlet socket you are wiring in.

Now you have wired all of the outlet sockets, it's time to connect up the inlet socket. Follow the same methods as with the outlet sockets and PMS3 unit, paying careful attention to the terminal labels on your mains hook up inlet socket.

Now you have wired the entire unit. It is time to follow the "testing" section in your installation and user instructions.

### *Notes*

**Never allow either battery to flatten completely; this sudden rush of current may damage the flattened battery.** If this does happen, remove the earth from the split charge relay and charge the flat battery using a car battery charger to maximise safety and prolong battery life.

In the event of any product failure cease usage of all wiring and remove the leisure battery earth strap.

Looms should be checked regularly for abrasion and rubbing against the vehicle and itself. Any abrasion should be treated and prevented. In the event of any loom failure please revert to the original wiring and contact us to resolve the issue. Once fitted, please ensure you have a qualified auto electrician check the fitting before use, also repeated inspections to ensure maximum safety are recommended. Rayne Automotive Ltd accept no liability for the misuse or poor fitting/maintenance of this product or any effects caused from ill practice.