

Outrigger 4 – A 12 Volt DC Power Pole Distribution Panel

The outrigger 4 is a 5 way 12 volt DC power pole distribution board with 1 input and 4 outputs. It is a compact (4.25 x 2.25 Inch PCB) unit comprising PCB and upper and lower protective acrylic plates.

The PCB is constructed using 2 Oz copper to provide greater current handling. The standard 45 Amp PowerPole connectors are oriented in the **ARES** alignment for maximum compatibility with existing systems and each input/output is fused using commonly available automotive blade fuses.

The PCB also incorporates a polarity indicator led, which shines green when the input power is correctly polarized and red to warn of reversed polarity. This indicator also acts as an on off indicator.

The input is fused with a 30 Amp fuse and the following fuse ratings are also supplied:

1 x 20 Amp. (Yellow)

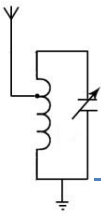
1 x 10 Amp. (Red)

2 x 5 Amp. (Orange)

As supplied the unit has the input 30 Amp fuse in the right most position, however, as the unit is symmetrical, any position can be the input by changing the position of the fuses. To remove or change a fuse, firmly hold the unit by the base plate in one hand and with the other hand grip the required fuse and pull straight up to release it from the holders. When inserting the fuse, make sure to line it up with the holder and insert firmly, check to make sure the blades are properly inserted.

The acrylic laser cut top and bottom plates are designed to provide ample protection and extra rigidity to the unit. The base plate features mounting locations to assist with installation.





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About the Laser cut case

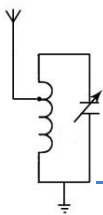
The outrigger 4 is supplied as a completed PCB and a simple to assemble laser cut acrylic case. Instructions for assembling the case are included with this document.

DISCLAIMER

Any person who constructs or works on electronic equipment may be exposed to hazards, including physical injury, the risk of electric shock or electrocution.. These hazards can result in health problems, injury, or death. Only qualified persons who understand and are willing to bear these risks themselves should attempt the construction of electronic equipment. By purchasing this item, the buyer acknowledges these risks.

There is a risk of electric shock, electrocution, burns, or fires that is inherent in the construction and use of electronic equipment. By purchasing this item, the buyer acknowledges these risks.

IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE including, but not limited to, property damage, personal injury, death or legal expenses. Buyer's recovery from Seller for any claim shall not exceed the purchase price paid by Buyer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. By purchasing this item, BUYER AGREES TO INDEMNIFY, DEFEND AND HOLD SELLER HARMLESS FROM ANY CLAIMS BROUGHT BY ANY PARTY REGARDING ITEMS SUPPLIED BY SELLER AND INCORPORATED INTO THE BUYER'S PRODUCT.



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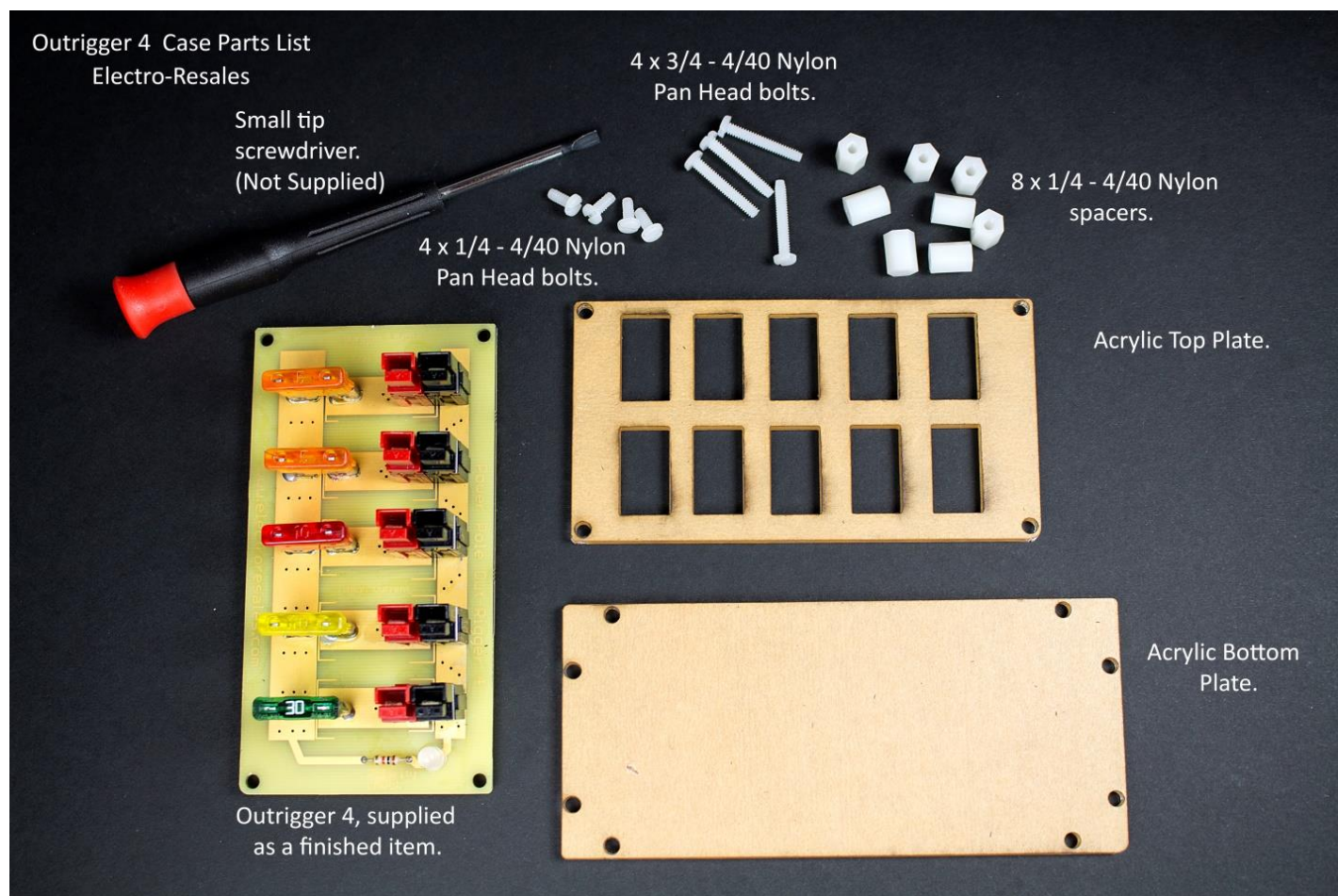
Outrigger case assembly

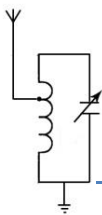
The acrylic protector supplied with the Outrigger 4 PCB is designed to afford both physical and electrical protection. It is not a full 4 sided sealed box, so some care will still be required when using the PCB.

The case assembly is a simple no tools process (although a small flat blade screwdriver may be useful). By following these instructions the assembly should be a quick and easy process.

Stage One.

First unpack the case component bag(s) and check against the picture below to make sure all parts have been supplied, if any are missing please contact us for help at: resalese@gmail.com

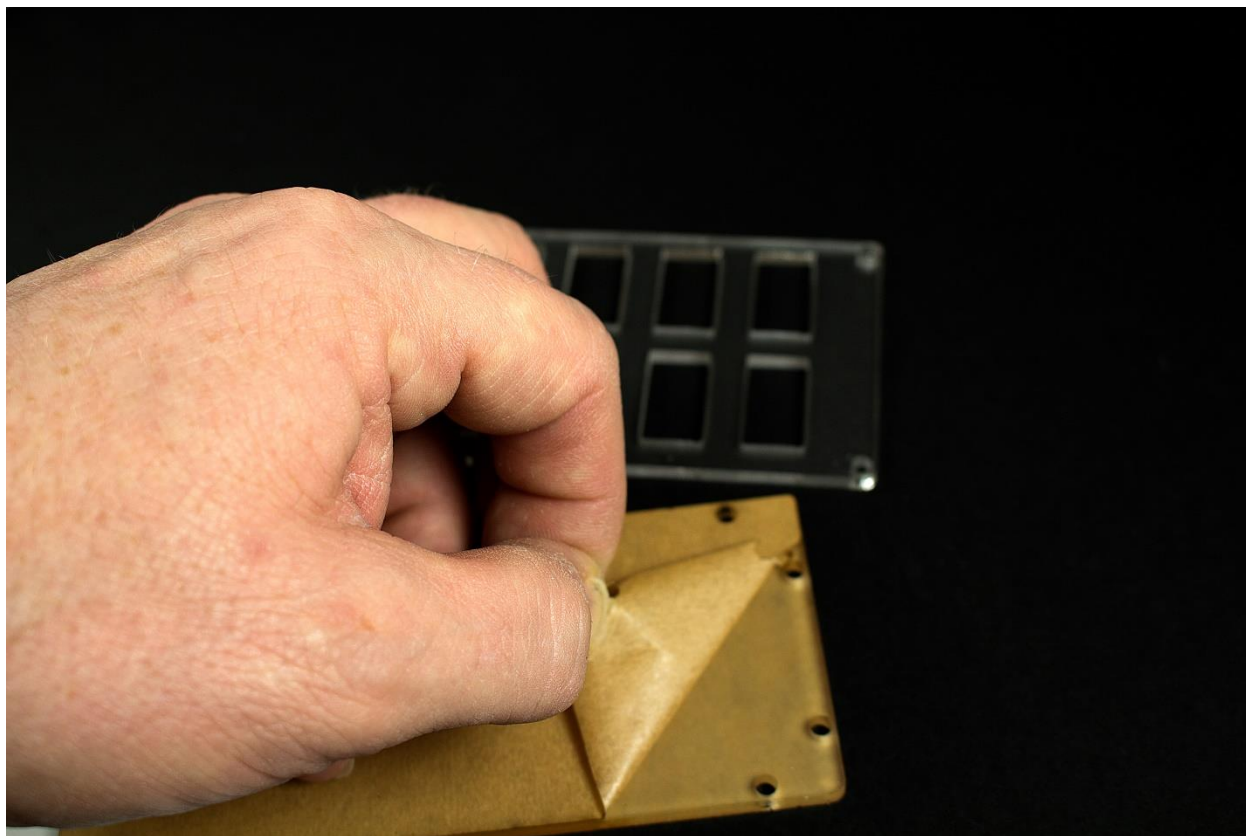




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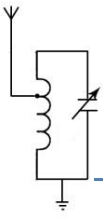
Stage Two

After confirming all the parts are present, the next step is to remove the brown paper protection from the acrylic plates. You may want to remove the paper from the top plate first and leave the bottom plate until it is required. Use a fingernail to lift an edge or corner of the paper and carefully peel back. **Do not use a knife or sharp object as this can slip and lead to damage.** After removing the protection paper be extra careful as the acrylic is easily damaged.

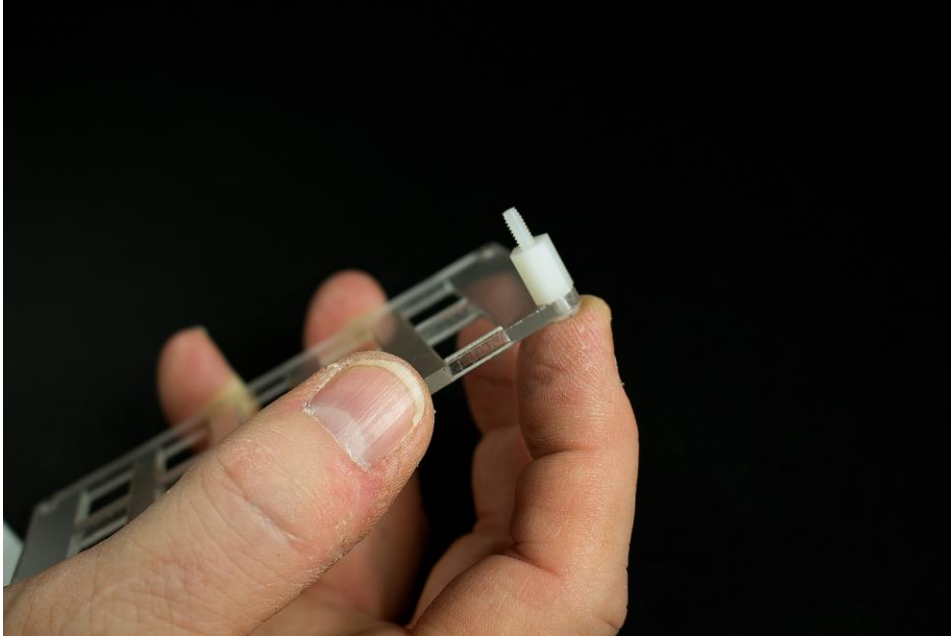


Stage Three

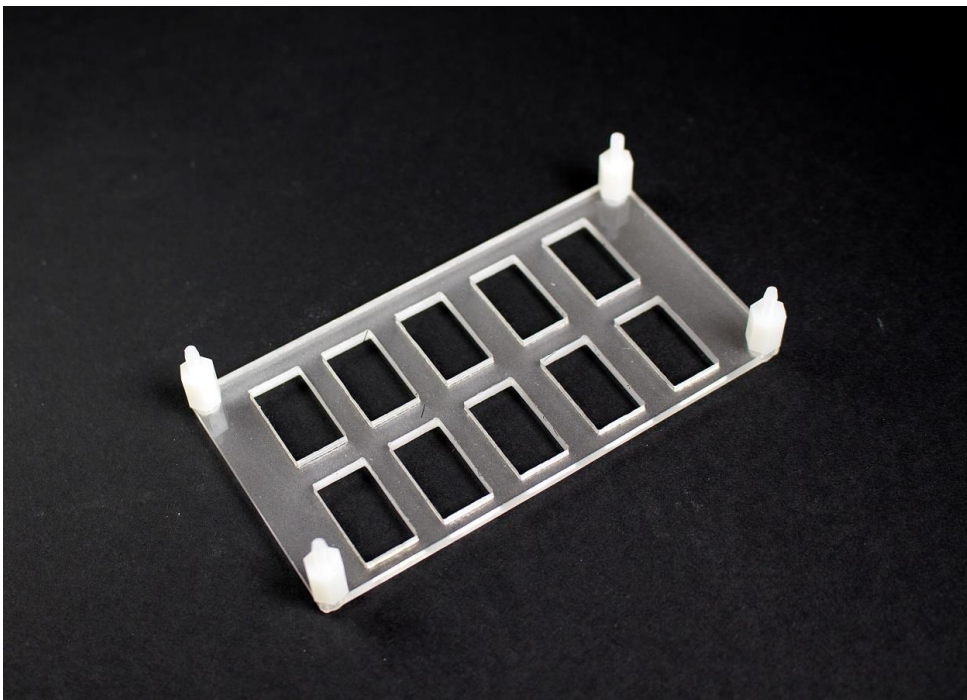
Insert a $\frac{3}{4}$ inch nylon bolt through one corner hole of the top plate and then screw on one of the $\frac{1}{4}$ inch threaded spacers, do not cinch the spacer up fully at this time leave a turn free as this helps when adding the PCB.

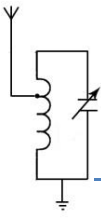


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After adding one bolt and spacer, repeat with the other three $\frac{3}{4}$ inch bolts and $\frac{1}{4}$ inch spacers.



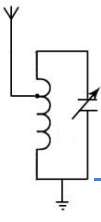


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Stage Four

Now add the PCB, it will only go one way, and if you left the spacers slightly loose, it should fit on the bolts and spacers easily. This picture shows the way round the top plate has to be for the PCB to fit correctly.

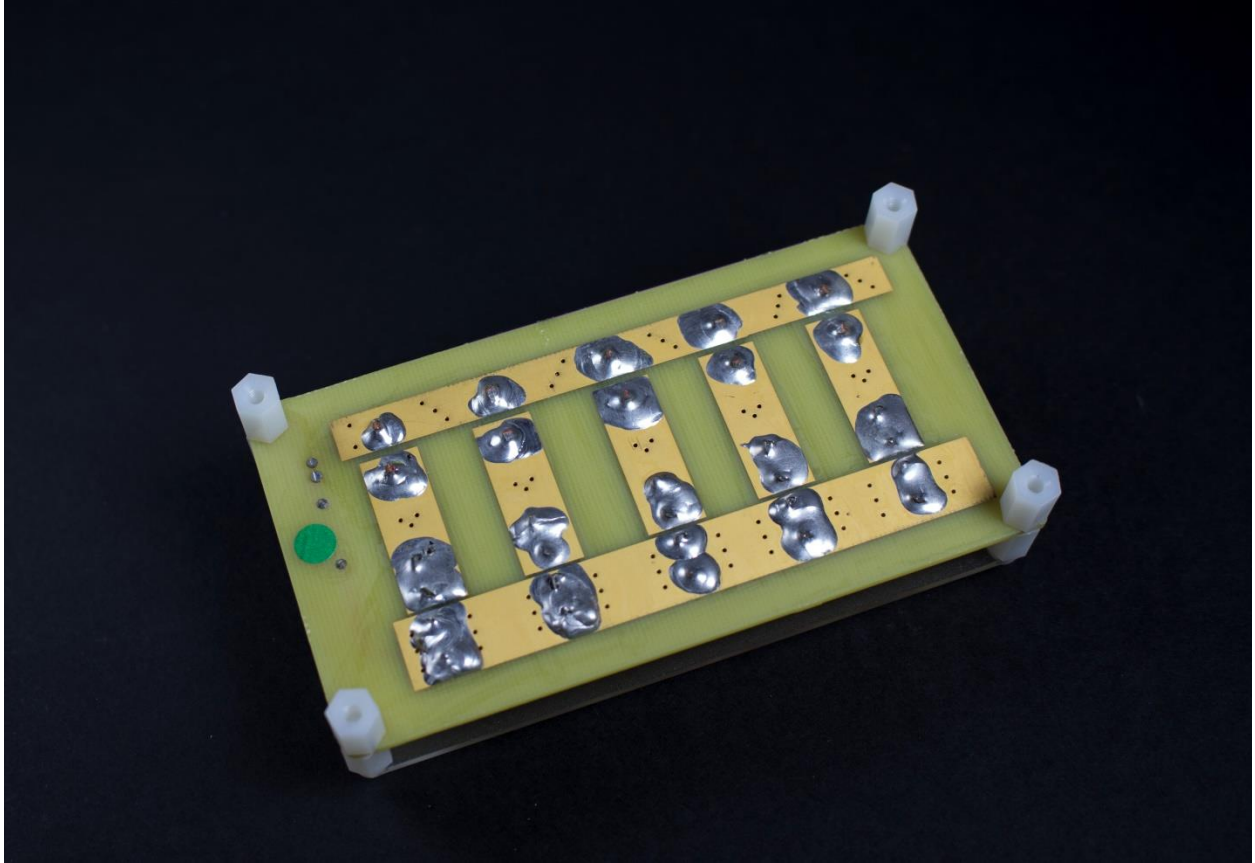




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Stage Five

Now add four more ¼ inch spacers to the backside of the PCB and snug up finger tight. When all four spacers are in place the assembly should look like this:

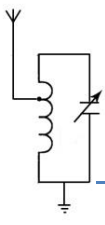


Stage Six

Next add the bottom plate, its orientation is not important and use the four ¼ inch nylon bolts to attach it to the four spacers, the small screwdriver may be handy at this point to hold the screws in place.

The finished unit should resemble the picture on the next page.

Well done, your case is finished and ready to use.



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Finished Unit

