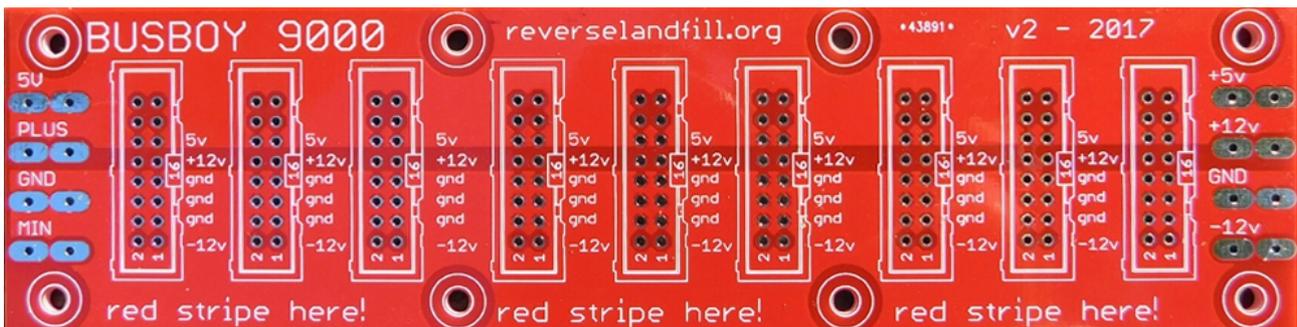## BUSBOY 9000 - Build guide

Passive 9 position busboard for Eurorack systems.
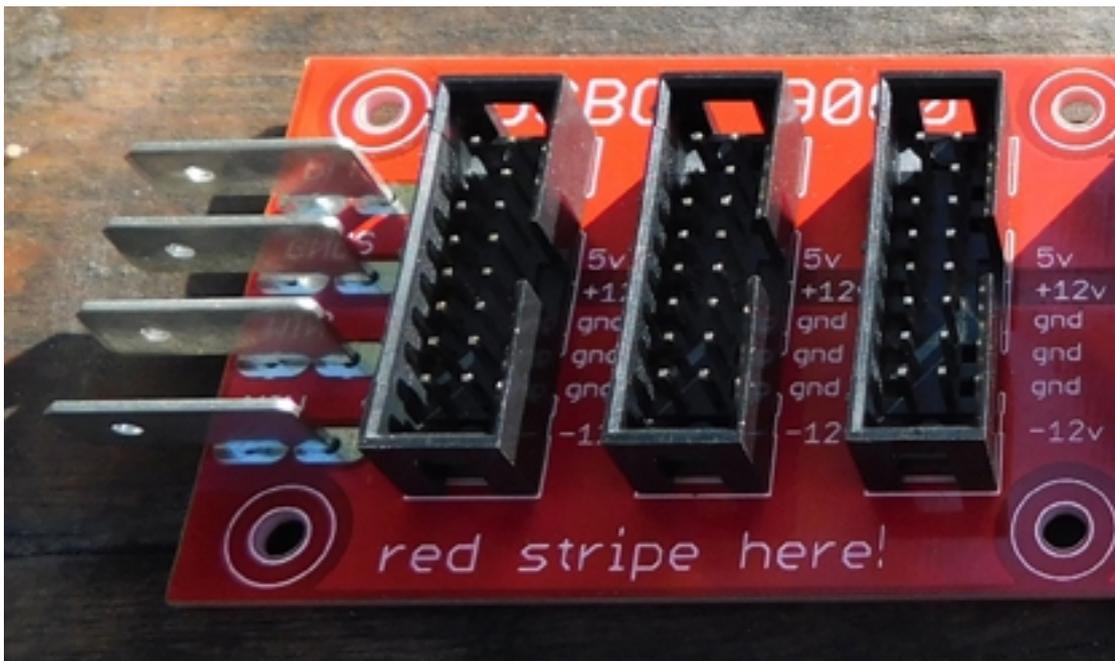

Parts:

- PCB
- 9x shrouded headers
- 8x right angled Faston connectors
- 8x isolated crimp connectors to make cables to your power supply (cable not included)

Build it!

Start by placing the 9 shrouded headers on the PCB.
The open side of the header should face to the right.
The drawing on the PCb should match the header.

After you placed the headers, put something flat on top, such as a book.
Now flip the PCB & book and lay it on its back.
The pins of the headers should all stick through the PCB.

Now solder 2 pins of each header. One on the top left, one on the bottom right.
You might need to turn the solder iron a bit hotter than normal, because of the fat copper traces on the PCB.
When you are done, remove the book and check if all headers are aligned and flat to the PCB.
If you need to correct one or more headers, push the header down with your fingers and reheat the solder. The header will click flat to the surface.

Next are the Faston right-angled connectors:

You can choose whether to use these connectors on the right or the left side of the PCb, or both.
If you don't need the +5v , you can leave that one out.
If you choose for connectors on both sides, you can use them to interconnect several busboards.

These connectors should point outwards. Push them in firmly and check if they are all aligned.
Now solder! Use enough solder, as these have large pads.

Cables:
I've included 8 isolated crimp connectors to make your own cables.
Use a crimp tool and some wire, preferably of different color. Blue for +12v, Black for GND, Red for -12v and some other color for +5v.

Error checking:
Check if the headers don't have solder bridges.
Use a multimeter to check the continuity of each power rail and make sure the GND is not connected to the -12v, +12v or the +5v rails. The +12v should also not be connected to the +5v!

Into your case:
The Busboy 9000 has eight 3mm holes to fasten the busboard to your case.
You can decide how to do this:
(example): use wood screws or metal standoffs.
Just made sure the PCB is not bent or under any kind of tension when screwing it down.

Power up:
First connect one module to the busboard to see if all is well. If you checked the continuity, it should all be fine :)

PCB size: 16.5 cm x 3.9 cm x 1.5 cm. (LxWxH)

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