

## 3T-OUTPUT Expander build guide

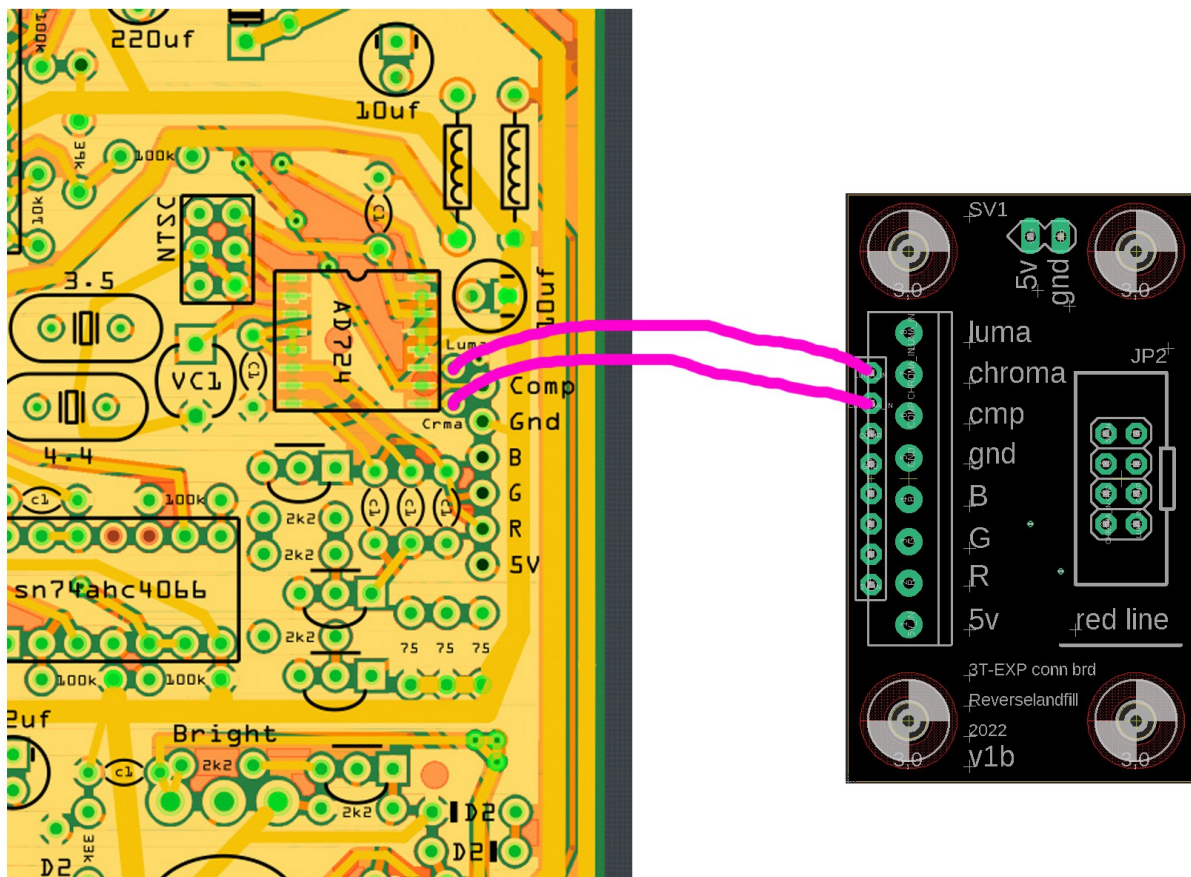
## Conn board

You need to connect the Conn board to the 3trinsRGB. You can do this by hard-wiring or use some kind of connector. I've added 2 types on the Conn board: MTA & Dupont pin header

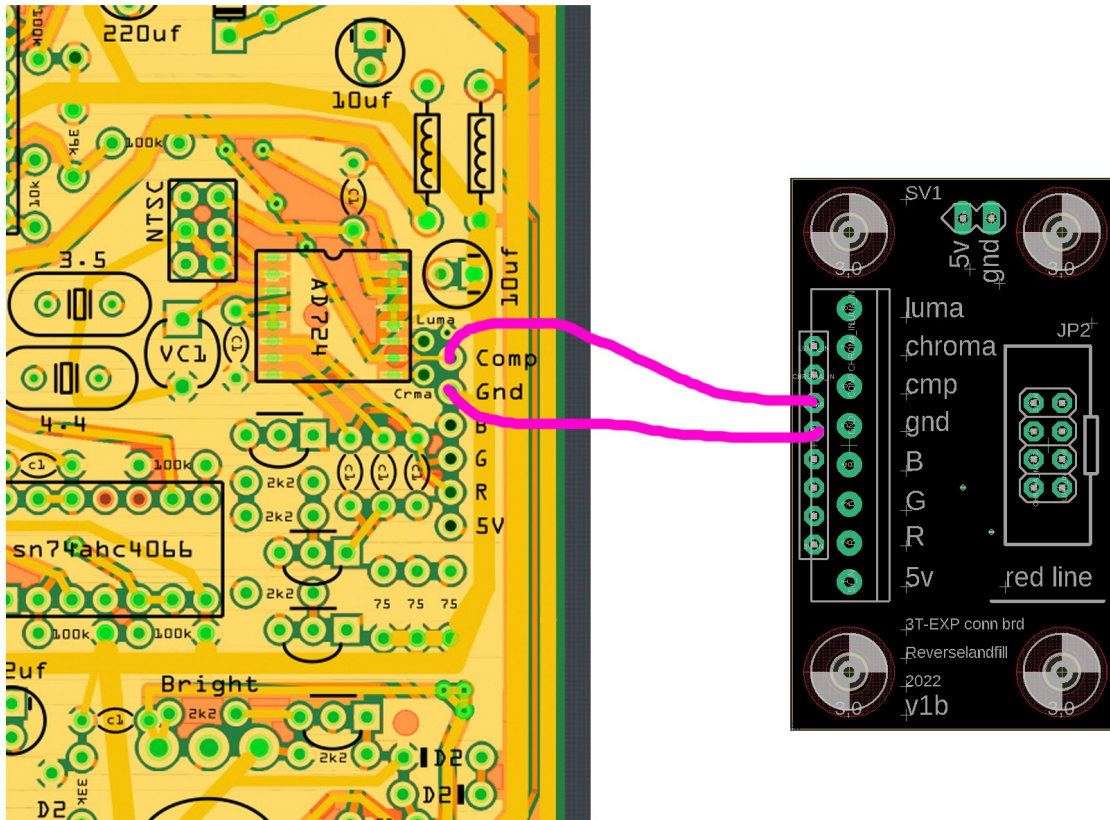
The Luma & Chroma pads are tiny. Strip the wires at about 1 or 2 mm and tin the copper threads. Also put some tin on the small Luma & Chroma pads.

Now solder the two wires, while making sure they don't make shorts.

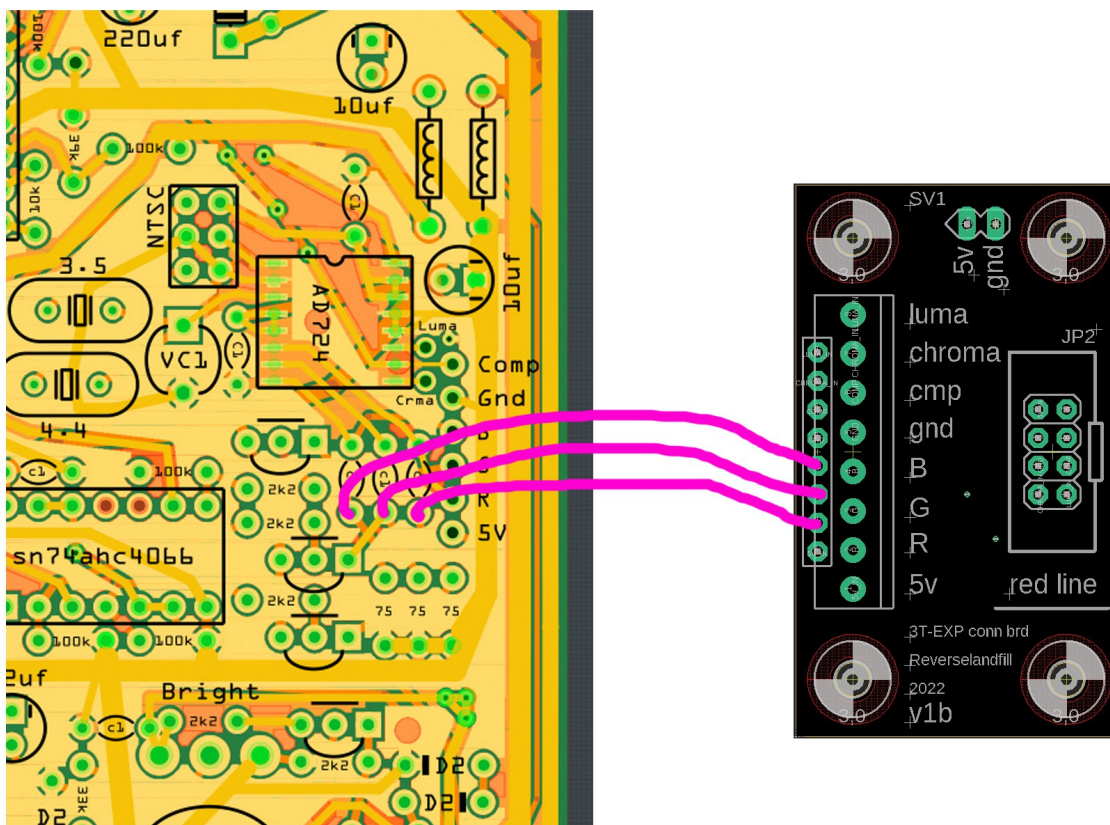
You can test this by using a multimeter continuity test (beeb) at the nearby pads.



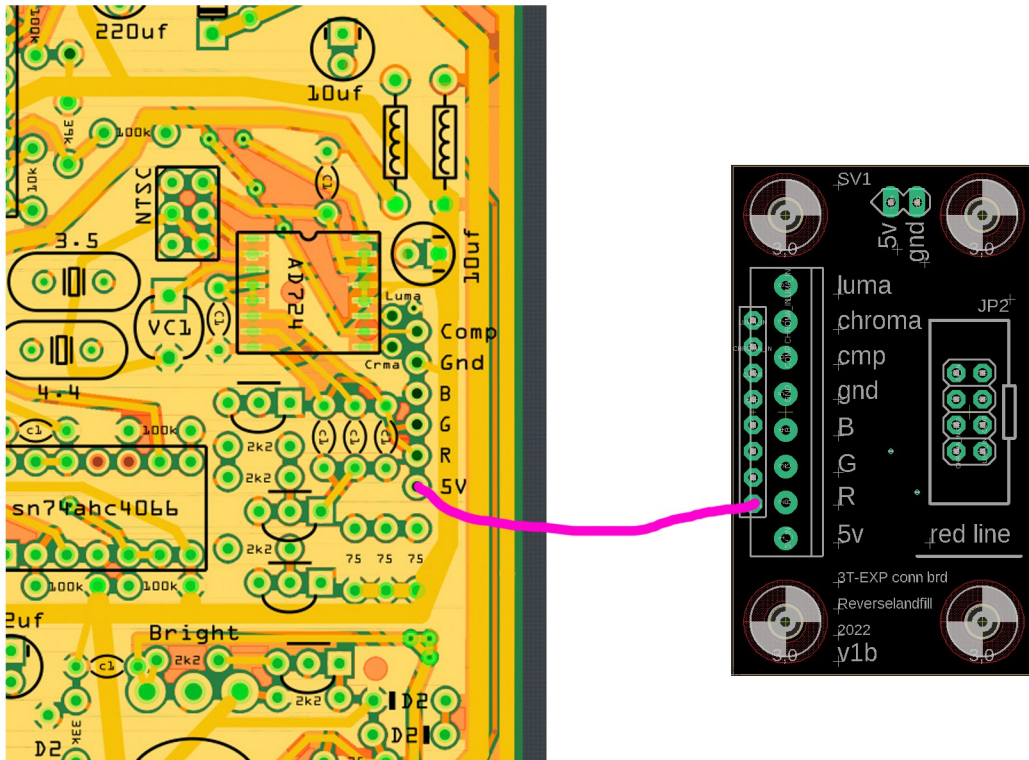
Next are the Comp & Gnd wires. These are soldered at the bigger pads.



The RGB connections should be made before the capacitors, as shown here:  
Note that the order is inverted, B G R



The last connection is the +5v, soldered at the bigger pad:



The Conn board can be connected to the main pcb by a 8pin (2x4) IDC connector & flatcable



The flatcabe fits through the slits at either side of the frontpanel.  
Measure what lenght you need and crimp the connectors to the flatcabe.  
Make sure the red line matches on both ends  
(on the connector there is a triangle that marks the first pin)

To crimp the connectors, use an official crimping tool , like this one:



or a vise:

