

Building manual for an Ormerod stepper extension board.



Make this ...

... to this ...



... in about 45 minutes.



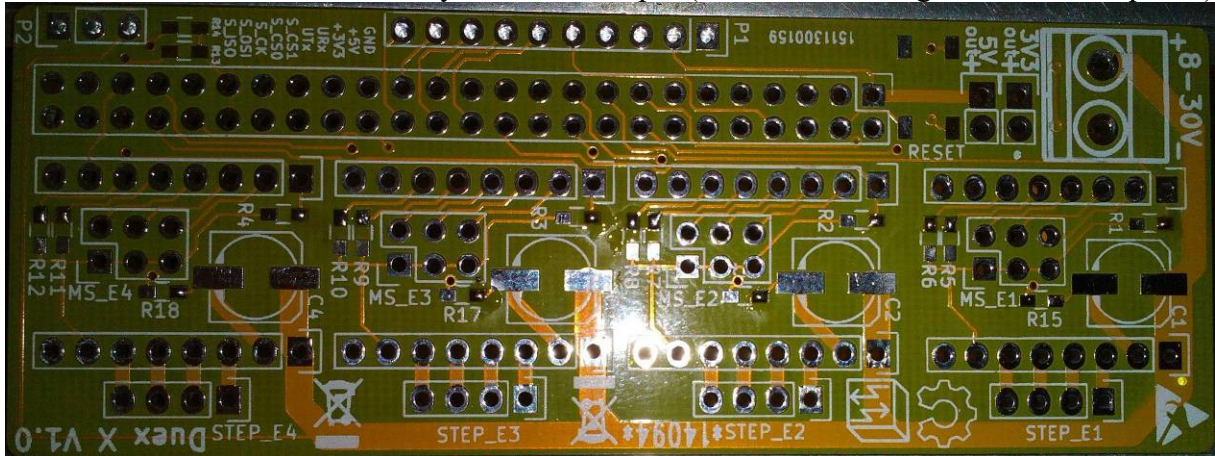
Partlist:

- 1x PCB
- 1x 2x25 pinheader
- 1x 1x2 power connector
- 4x 2x3 pinheader
- 16x 0603 10K resistors
- 4x 100 μ F 35V smd elko
- 4x 1x4 pinheader
- 12x jumper
- 8x 2x8 pinheader

Take th PCB:



Make a let dot on one side of every 0603 resistor pin (exclude the voltage divider left top side)



Place on every resistor field an resistor:



Led the other side of the resistors:



Make a let dot on one side of every capacitor:



Place the capacitors on every capacitor field !!! **watch on polarity!!!** :



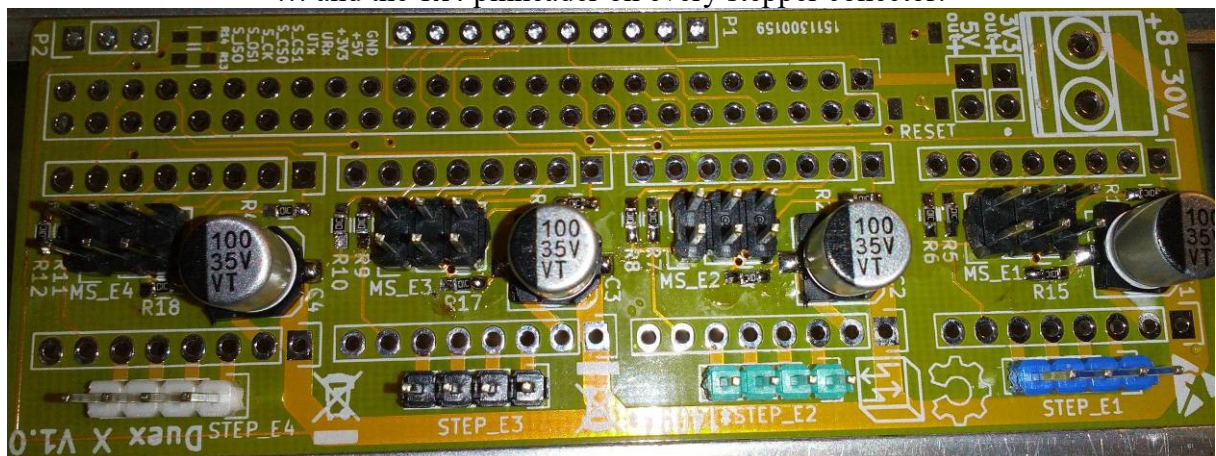
Led the other side of the capacitors:



Place the 2x3 pinheader on every jumperconnector field ...:

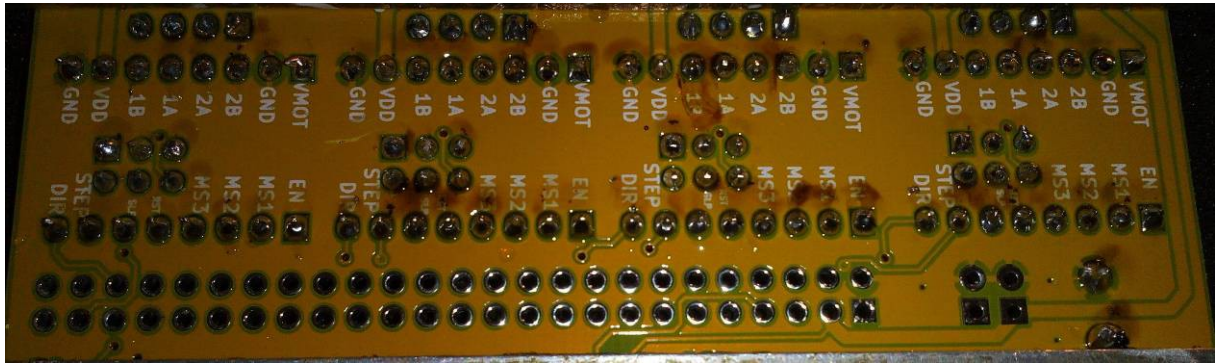


... and the 1x4 pinheader on every stepper connector:

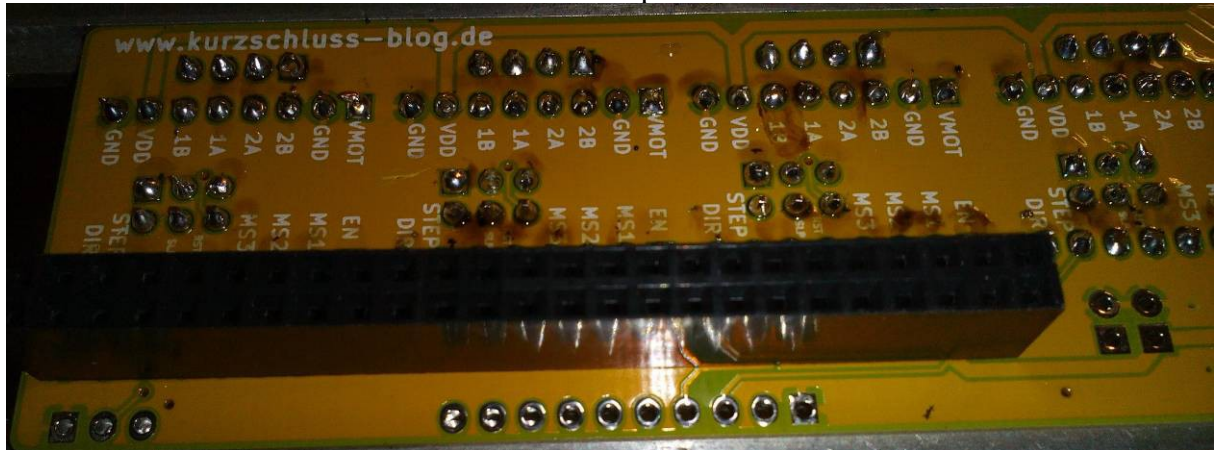


The image shows a custom PCB assembly for a 3D printer. The board is populated with various components including capacitors, resistors, and integrated circuits. It features a green terminal block on the right and a white connector on the left. The board is labeled with "STEP_E1" through "STEP_E4" and "Duet X V1.0".

Led them:



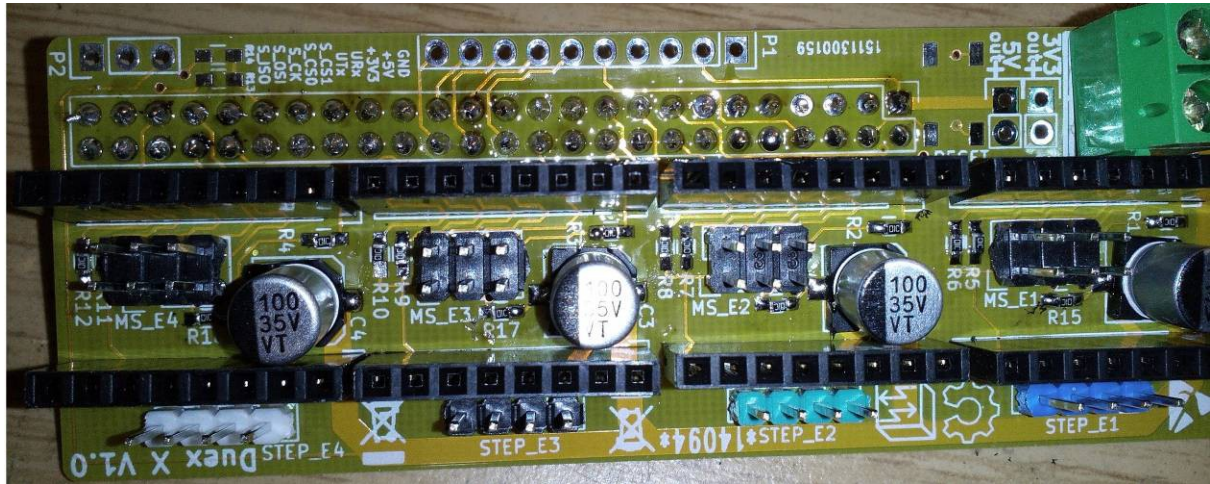
Place the 2x25 pinheader:



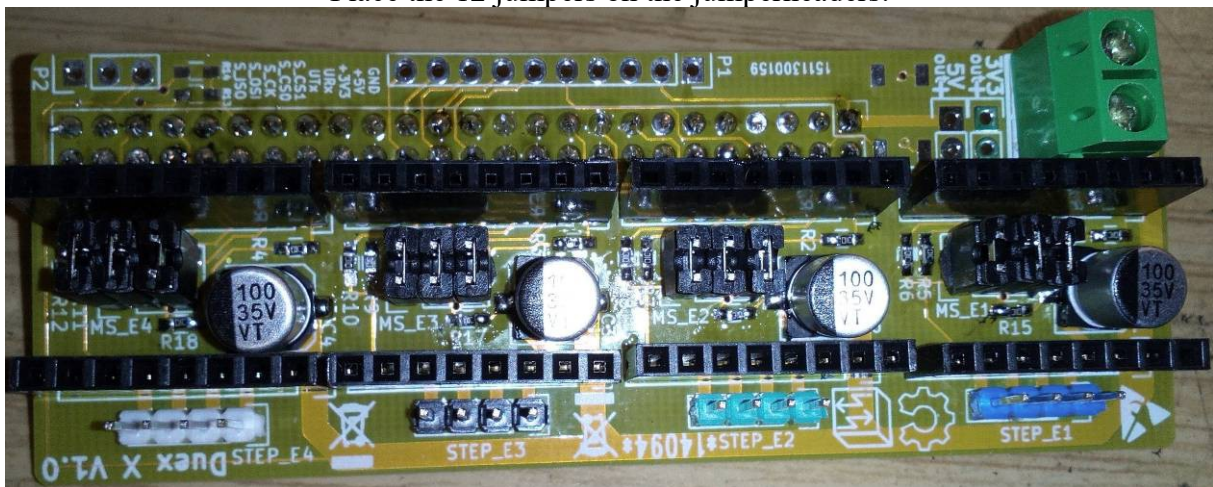
Led it careful und don't melt the 1x8 pinheader:



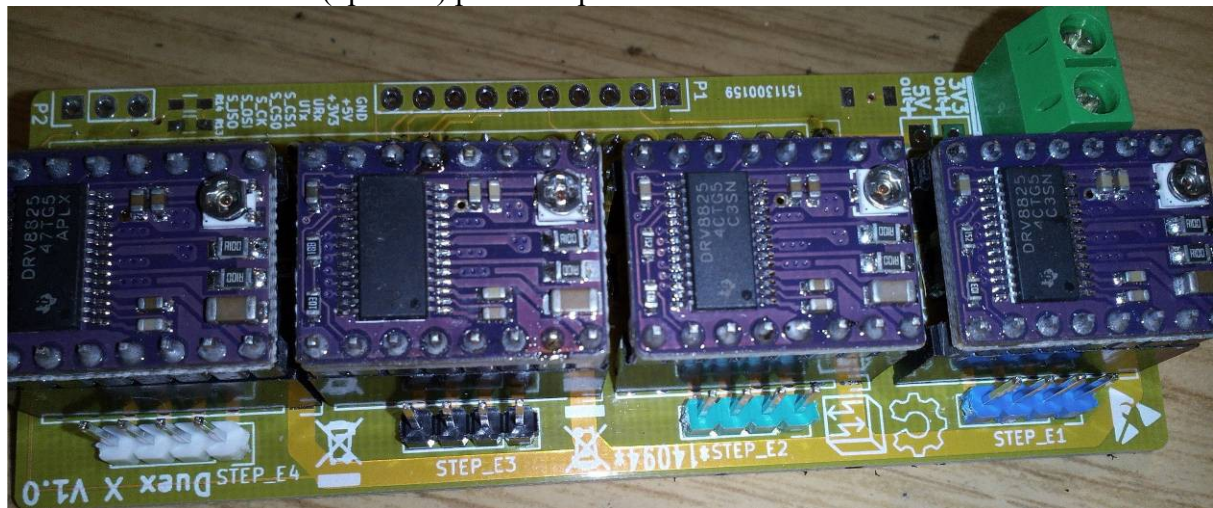
Now the PCB should look like this:



Place the 12 jumpers on the jumperheaders:



(optional) place the pollulu or similar PCB's:



That's it

Enjoy the Duex X board and drive 4 more steppers on your Ormerod.

Thanks