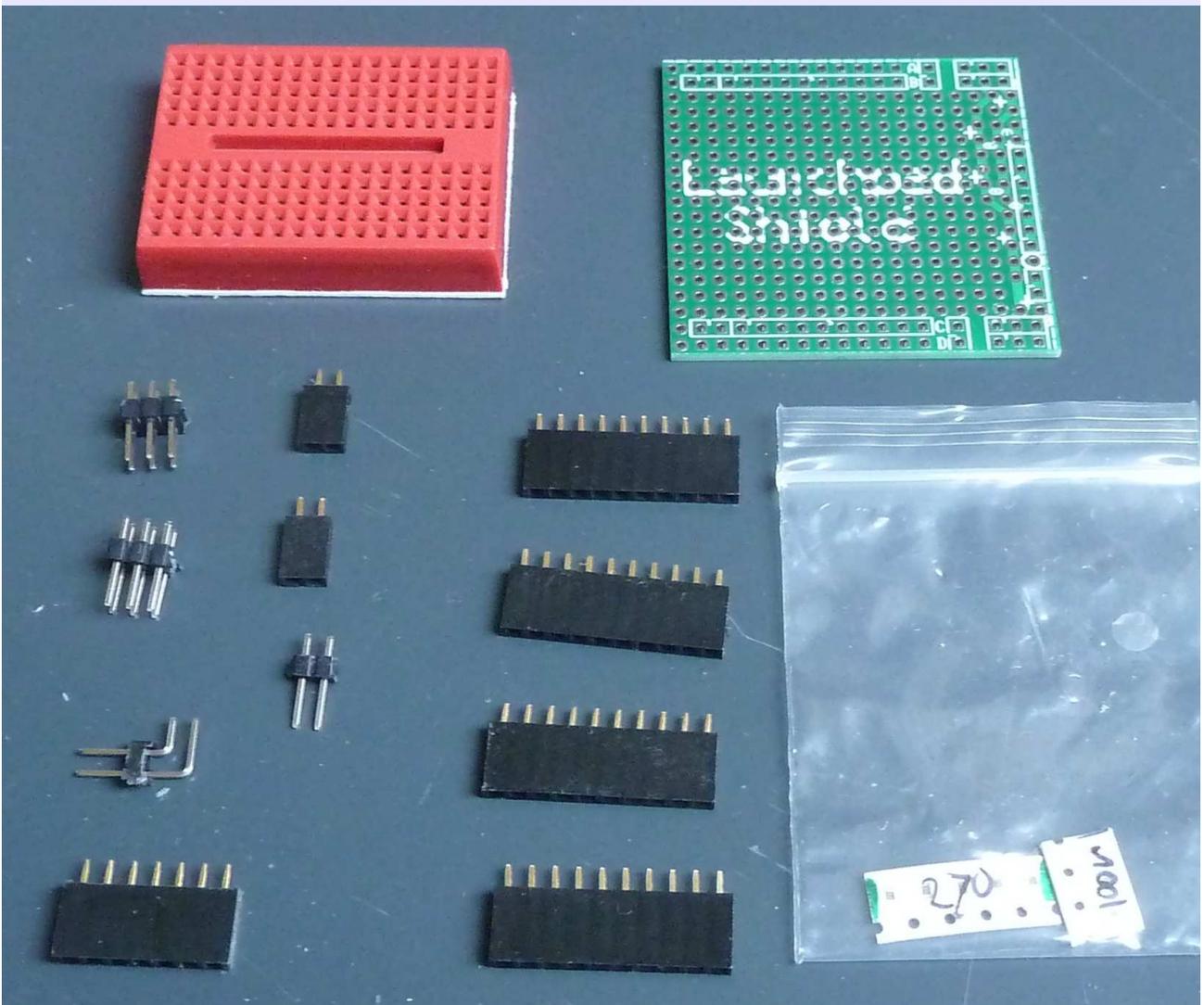


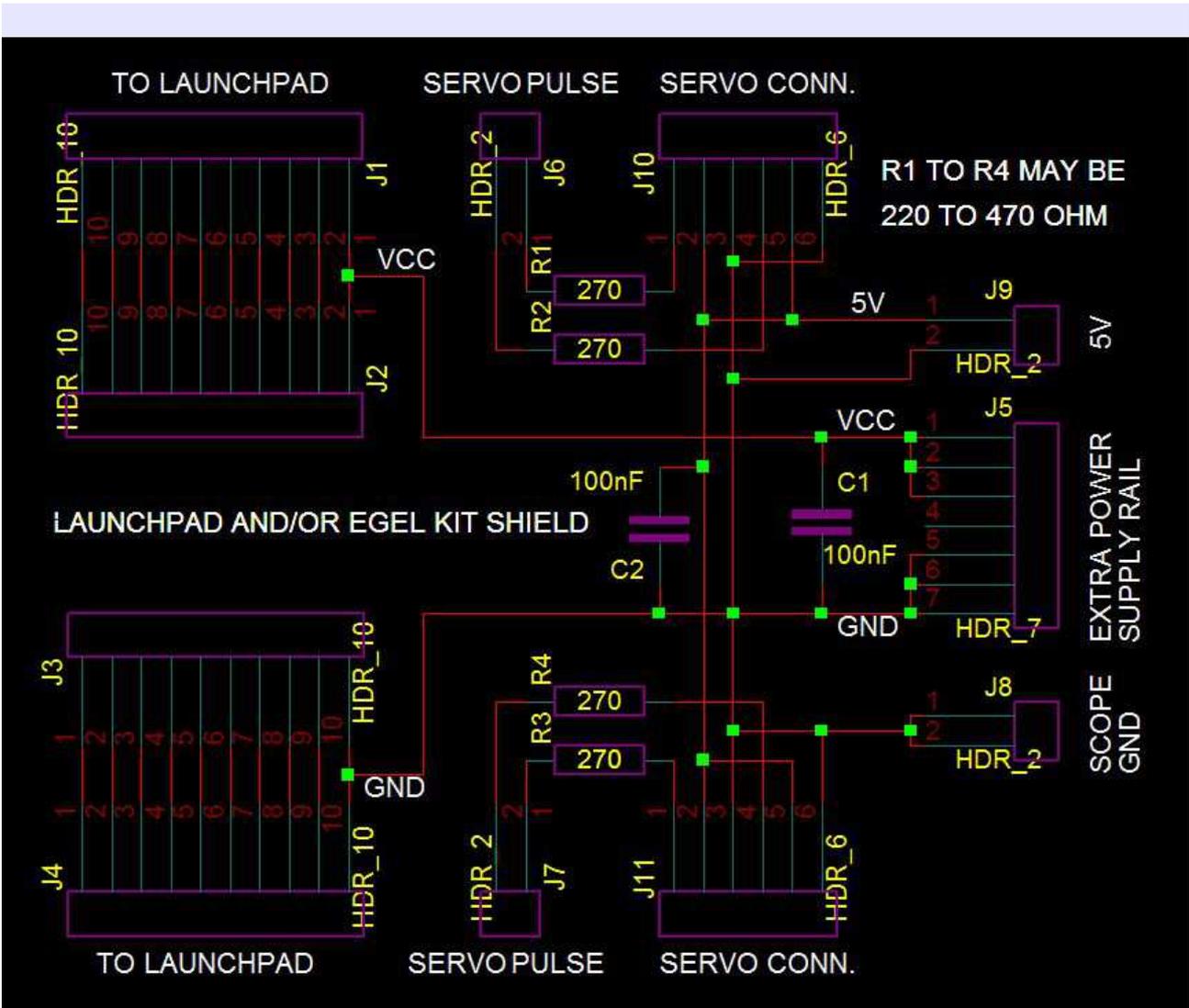
Egel shield construction

Components list:

- 1 x Egel shield printed circuit
- 4 x 10 pin female header
- 1 x 7 pin female header
- 2 x 2 pin female header
- 1 x 2 pin male header
- 2 x 3x2 pin male header
- 1 x 2 pin angle male header
- 1 x SYB-170 breadboard
- 2 x 100nF SMD 0603 capacitor
- 4 x 270Ω SMD 0603 resistor

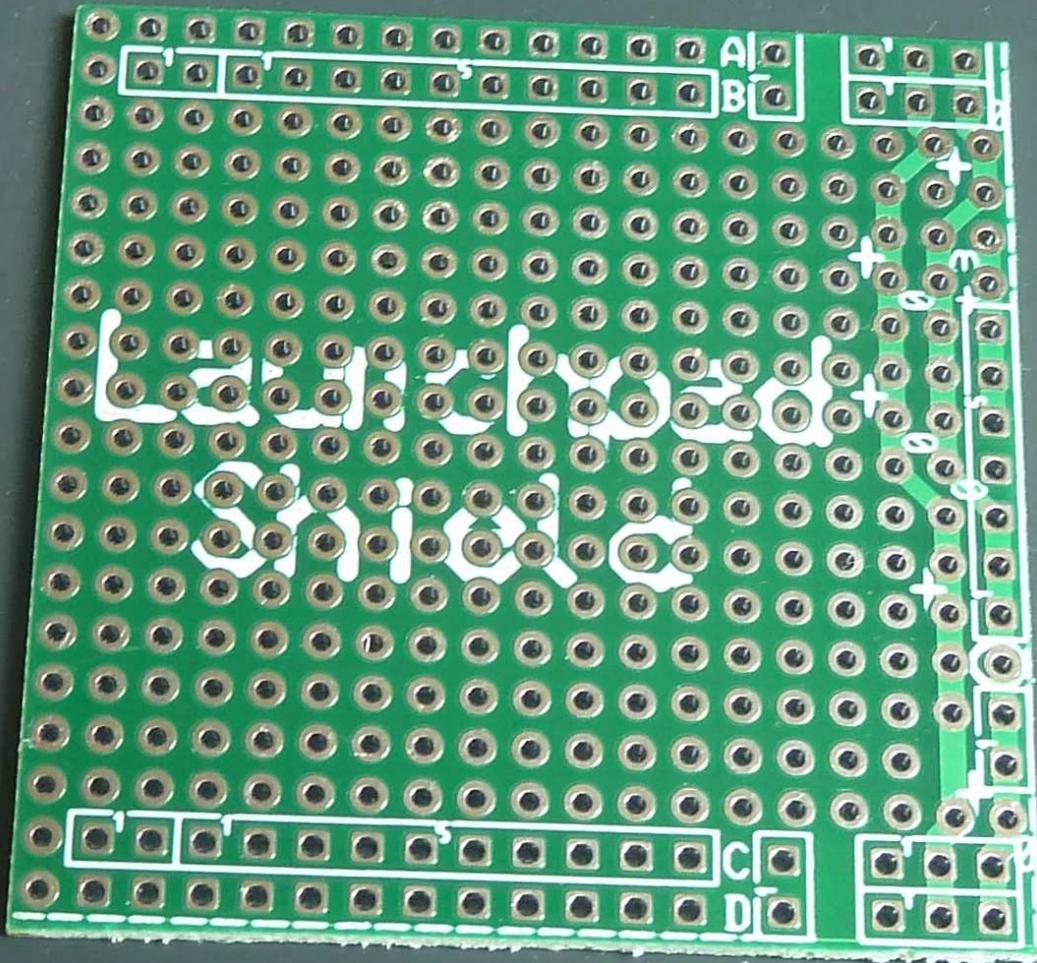


Egel shield all components



Schematic for Lanchpad/Egel kit shield



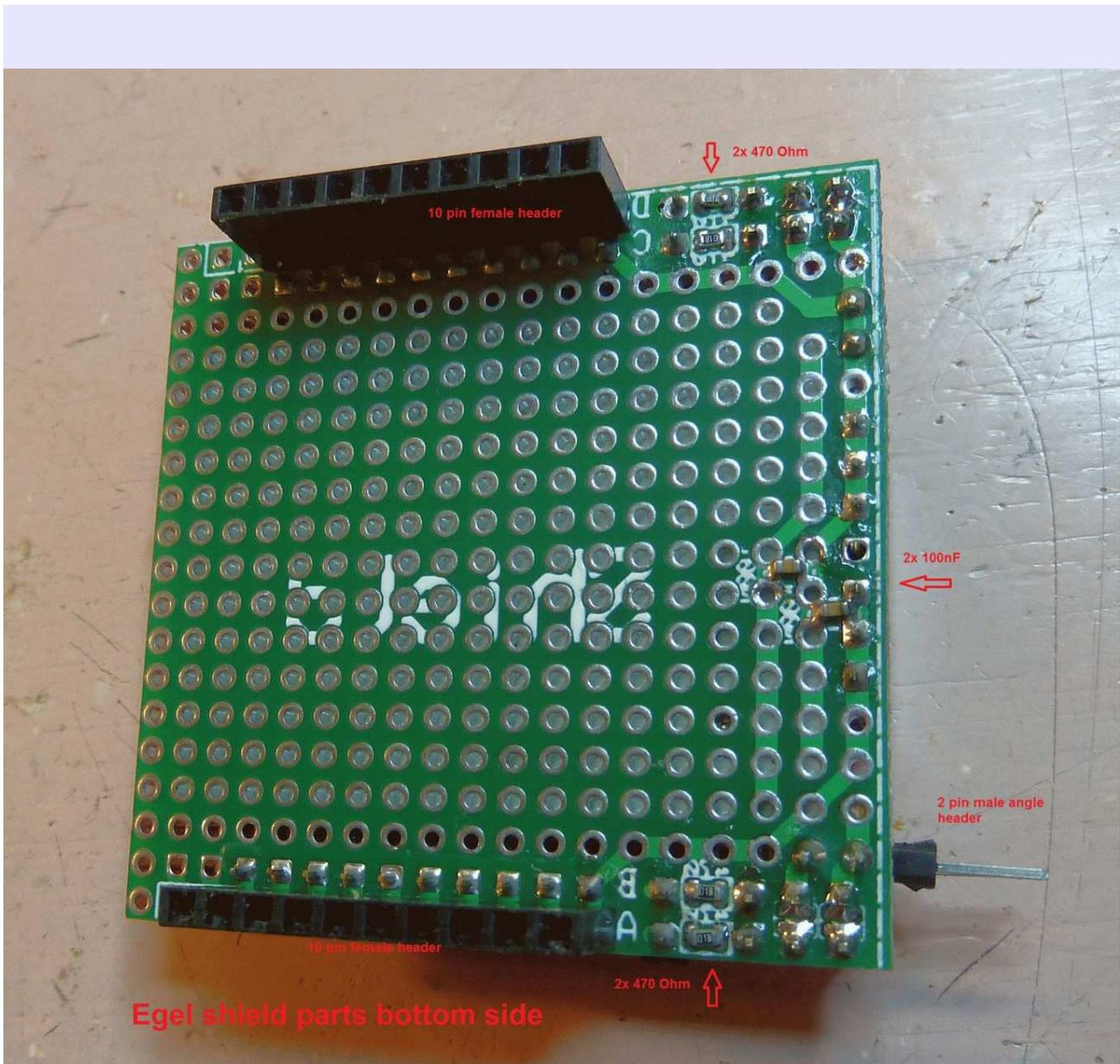


Egel shield top side empty

Use the photo's in this guide as a visual reference!

The Egel shield may be used on the MSP-EXP430G Launchpad and of course the Egel kit which basically is a clone of Launchpad. It is very usefull for experimentation and for doing the Egel project examples.

<http://noforth.bitbucket.org/site/egel%20for%20launchpad.html>



Egel shield bottom side component placing

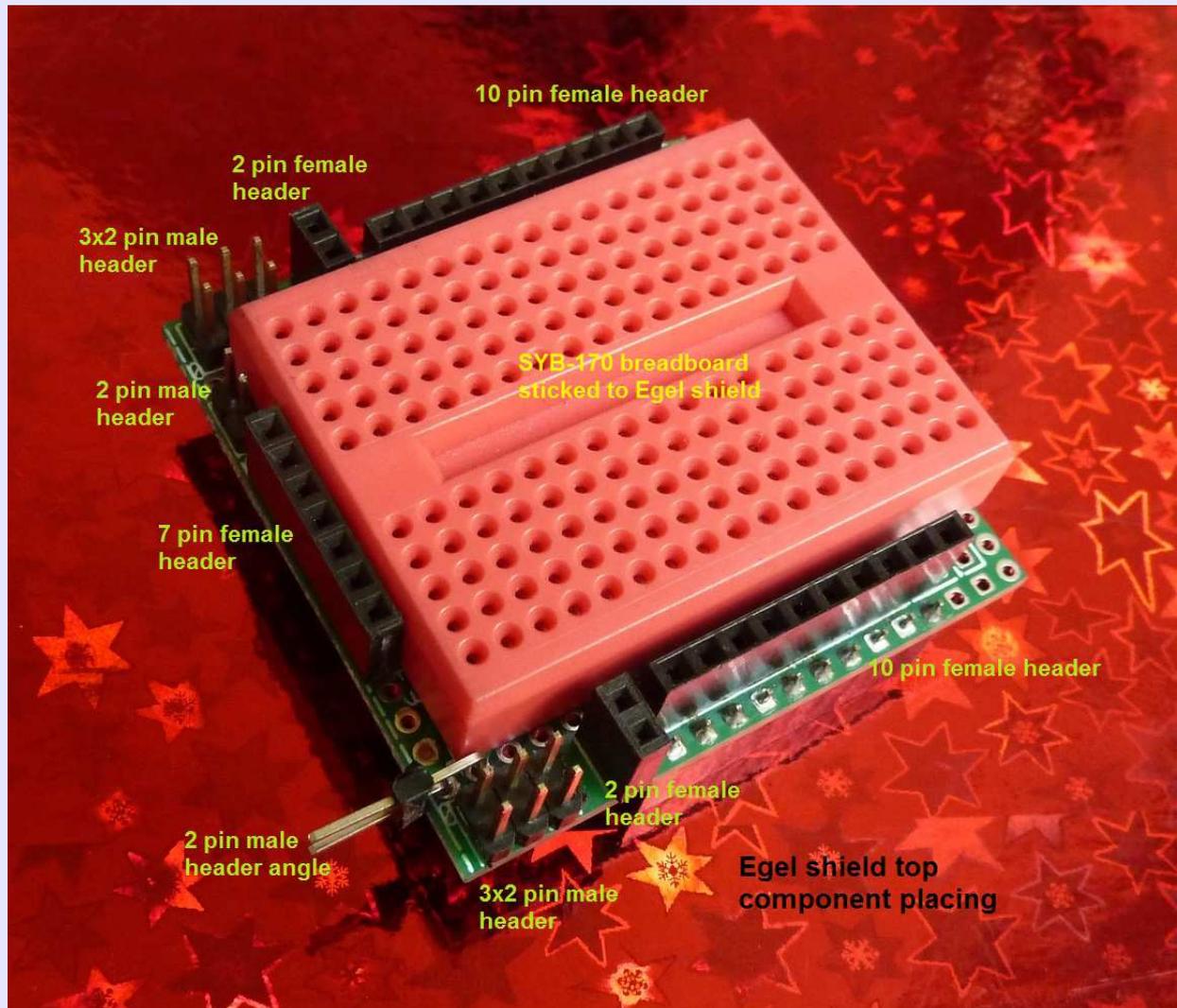
Start with the lowest components first, in this case that are the SMD-parts. Use always enough flux or solder paste and keep them with a fingernail onto their place. If the placing is not perfect, just place the component again until it is on the right position.

Put a drop of solder on the tip of the solder iron and let it flow between the component and the solder pad. If one side is done do the other side before placing the next component.

An example on youtube: <https://www.youtube.com/watch?v=fqHleZjTaH8>

When a component is done check for short circuit and/or failed solder joints and correct them.

When all the compents are done, check again for electrical failures and correct when needed.



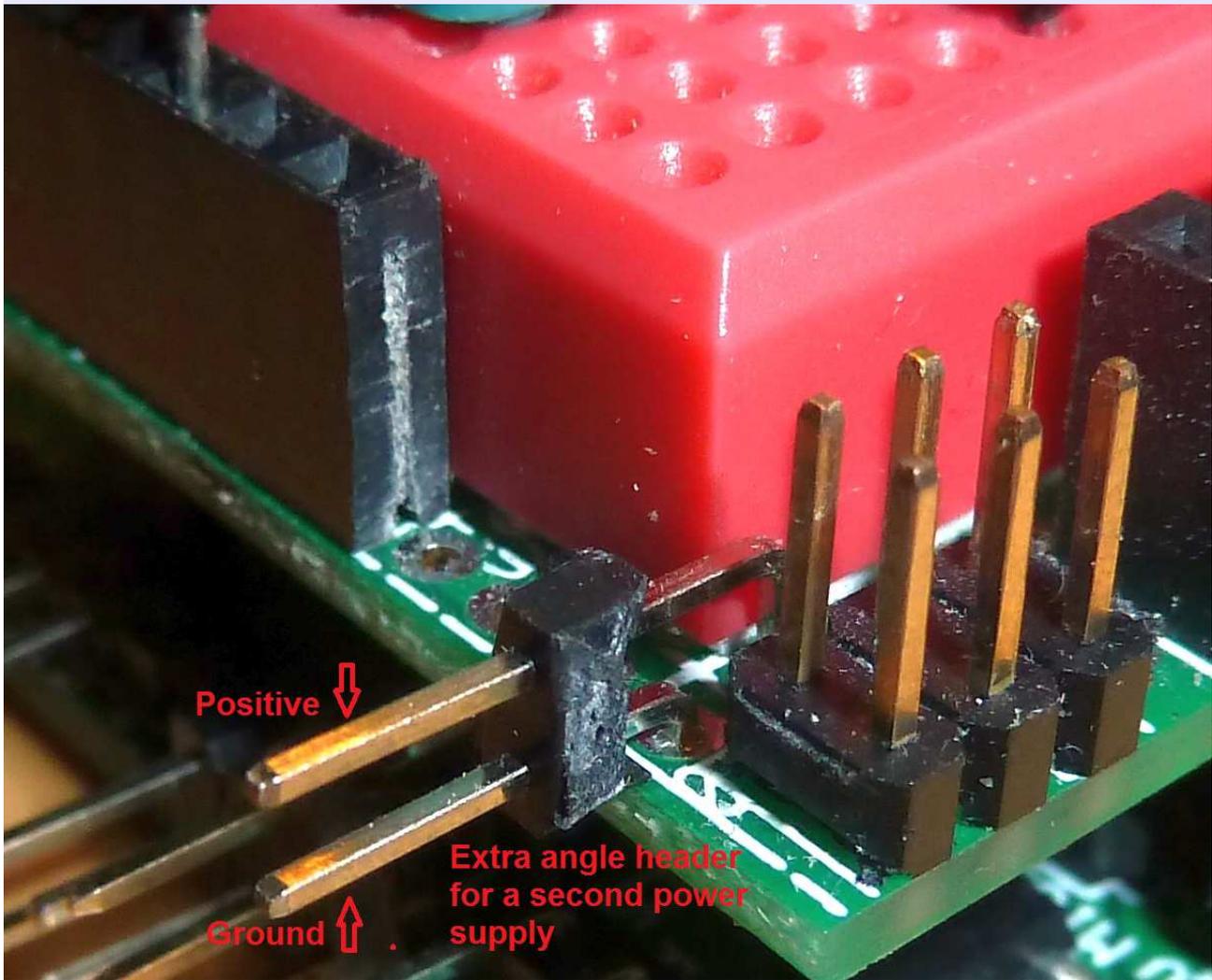
Egel shield top side component placing

Finish the bottom side first before doing the topside, on the topside start with the lowest components too, before adding the higher ones.

When a components is done check for short circuit and/or failed solder joints and correct them.



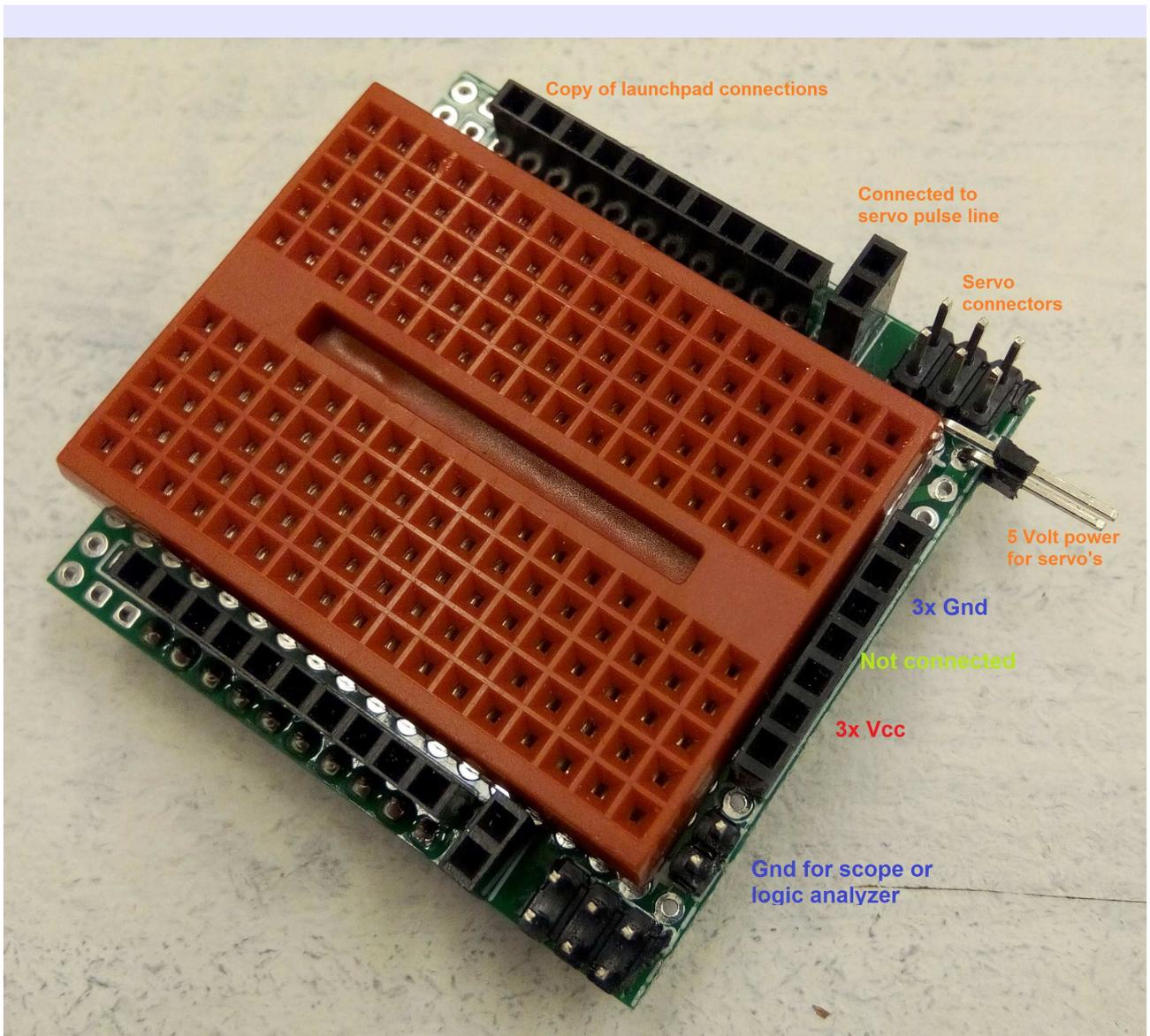
Then place the SYB-170 breadboard on the top using the sticky tape on the bottom of the SYB-170.
The Egel shield is ready now.



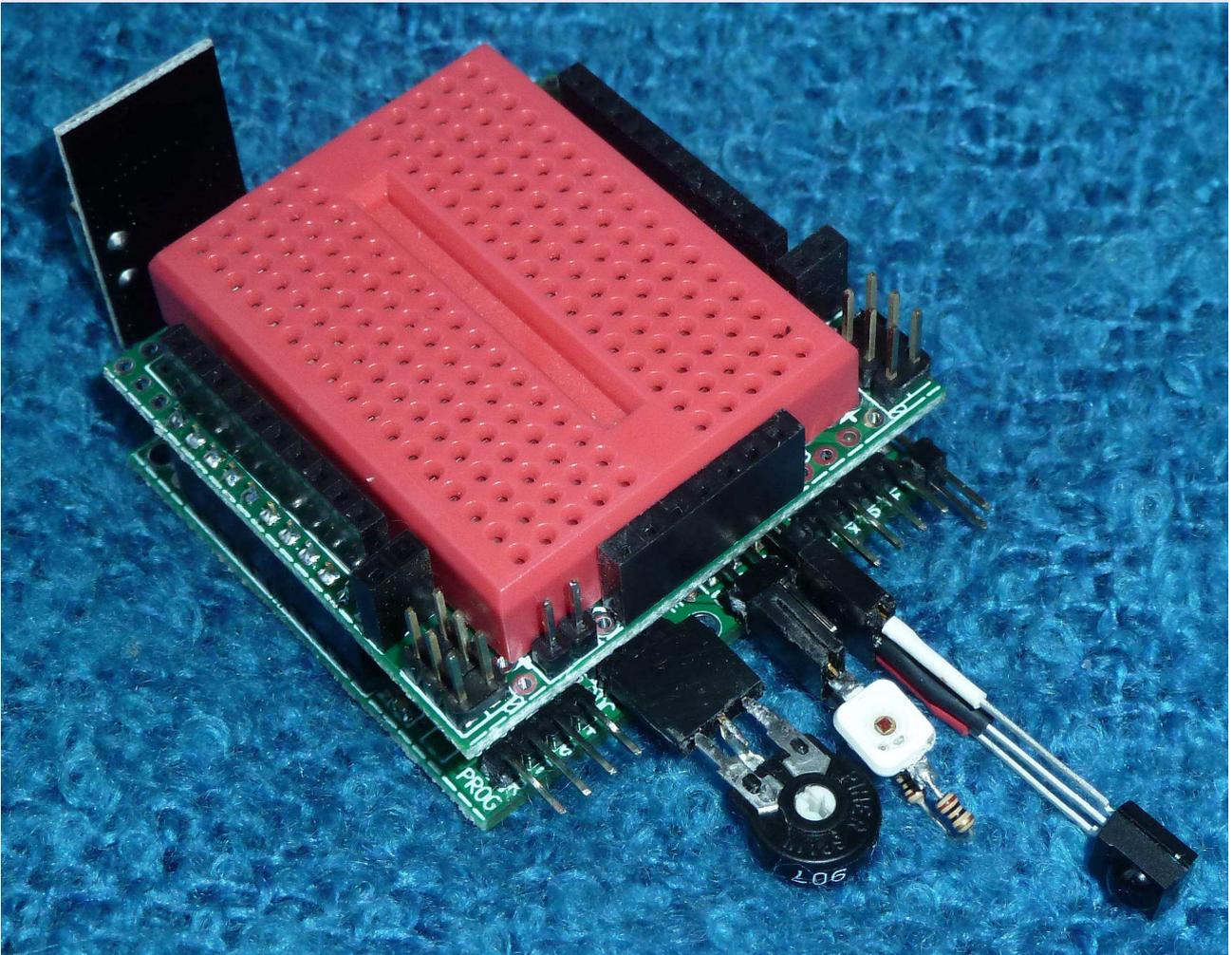
Egel shield top side extra power plug

The extra angle header is connected to both 3x2 male header strips. It may be used to connect model servo's. This power plug then serves as the power supply for these model servo's. See for a usage example chapter 110 of the egel project. This link:

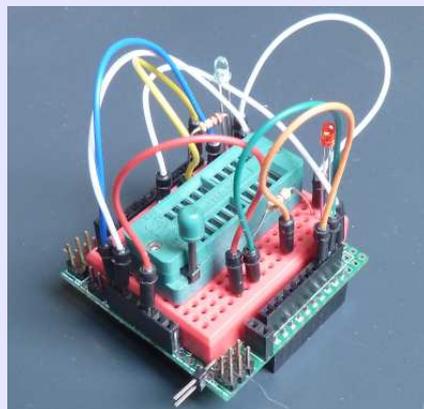
<http://noforth.bitbucket.org/site/egel%20for%20launchpad.html#e110>



Purpose of connectors on top side of finished Egel shield



Egel shield top side finished and mounted on the Egel kit



Egel shield wired as cloning programmer