

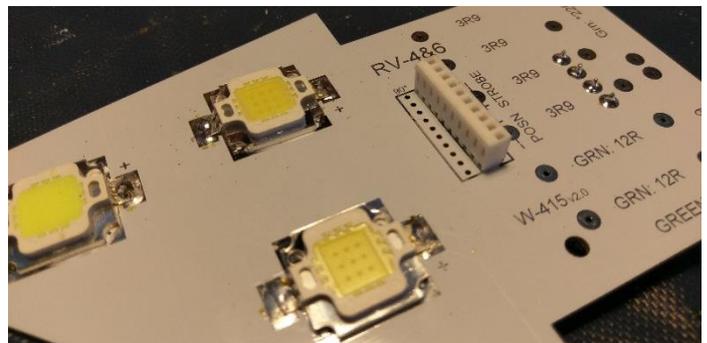
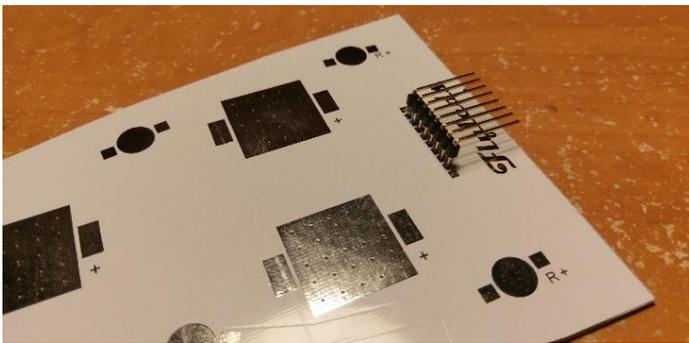
Building the W-415FG boards

The W-415 wing has a significantly smaller area to work with, so these boards are a different design to our other kits. The current limiting resistors for the LEDs on both boards are located inside the wing space on the extended circuit board. This kit is also designed so that the outward facing board plugs into the forward facing board.

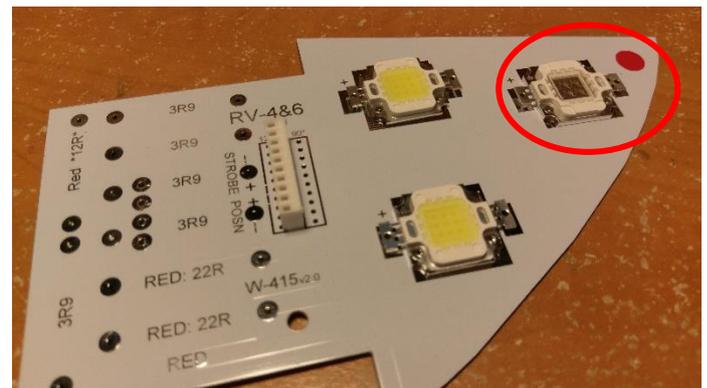
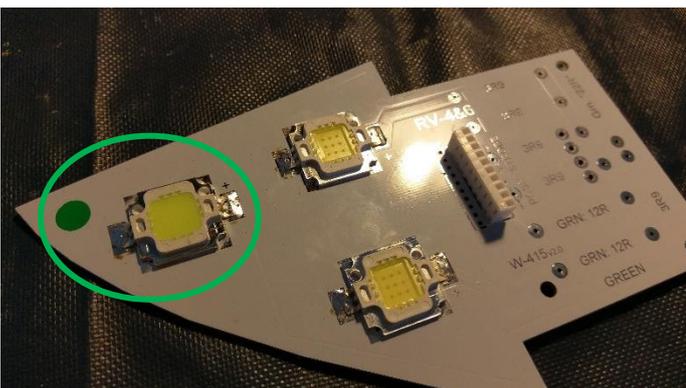


The forward facing board only has two strobe LEDs, with the third LED being either a red or green 10W rated position LED. This is one less strobe LED than our other kits, but you'll still need eye protection when they are on!

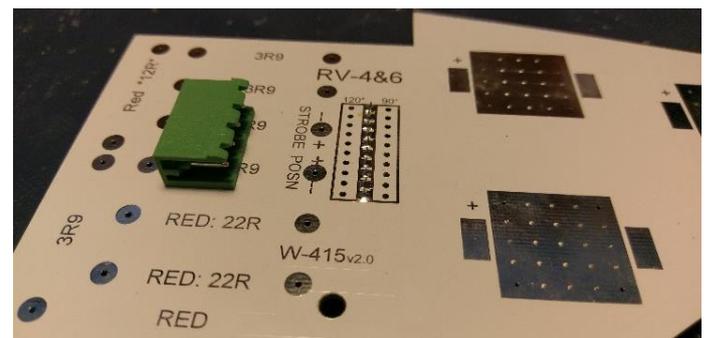
Begin by soldering the edge connector plug and socket first. This will enable you to plug the boards together so that you can final fit them into the wingtip. The socket should be oriented over the 120° position markings as shown below. (90° is used for the Van's wing mod kit, where the boards are joined at right angles to each other...)



Mount the white strobe LEDs as per the main instructions, not forgetting the thermal paste! Take your time with the soldering iron to ensure the *board and the LED* gets hot enough to make the solder melt and flow nicely. Don't worry, they can handle the heat! Note the red and green 10W position LEDs circled. They are easy to distinguish from the white LEDs, and of course came packed with the smaller coloured LEDs. Observe the + symbols on the LEDs and on the boards.

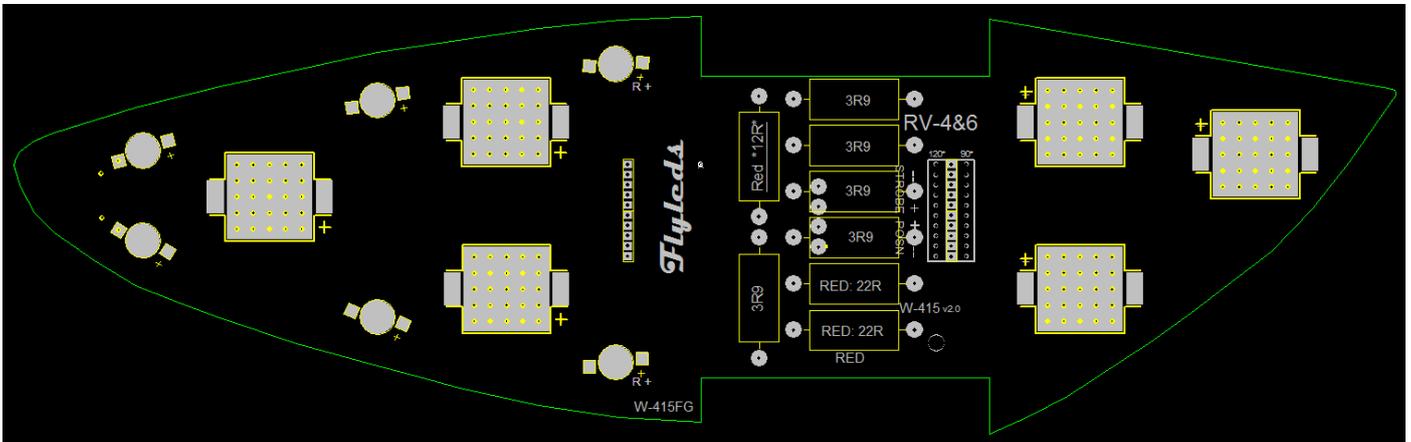


Next, mount the green wiring loom connector on the reverse side of the boards as shown.



Finally, mount the resistors in their respective locations as marked on the boards.

- The White LED bag comes with 10x 3.9Ω resistors. Mount five on each board where marked.
- The Red LED bag comes with 2x 22Ω resistors and 1x 12Ω resistor. These all go on the Red board.
- The Green LED bag comes with the opposite combination: 2x 12Ω resistors and 1x 22Ω resistor. Follow the markings on the board and you'll be good to go!



The outward-facing boards are shown below.

- Mount the white strobe LEDs first, observing the + polarity markings on the board.
- Finally, mount the small 1W LEDs. They have + and - stamped on each leg. Orient them as shown.



If you choose to fix the boards to your wing with screws, avoid drilling through any track lines by choosing a more 'open' area of copper. We used automotive double-sided trim tape instead for our RV-10 with great success. Even after a few hundred flight hours, they aren't going anywhere.

Don't forget to remove the red and green dots once you've mounted the boards to your wings. And if you have a nice shiny red/lime green/purple plane, you can always mask up each led and spray the boards the same colour.

Please send us a picture of your work!