

SIG Rascal 110" renovation, 13

A couple of little jobs to do before I tackle the covering - hinges for the ailerons and flaps.

I decided to use 'furry' mylar hinges for the ailerons, just like the original had and was able to cut slots close to the original hinge positions.

But for the flaps I wanted there to be a 'slot' between the flaps and wing when they are in the down position. I was going to 3D print some stand off hinges for this but decided to use Robart instead. In order for these to work as I wanted they had to be positioned back from the flap / wing join so that their hinge point sits below that joint line. They also need to be fitted into holes which are set at an angle (the pictures that follow make this clearer!).

To make sure that I drilled the holes in the correct position I fashioned a drill guide out of some scrap plywood, and drilled several guides so that I could chose which one was going to be the best.



The guide is held against the wing false TE and then against the flap LE



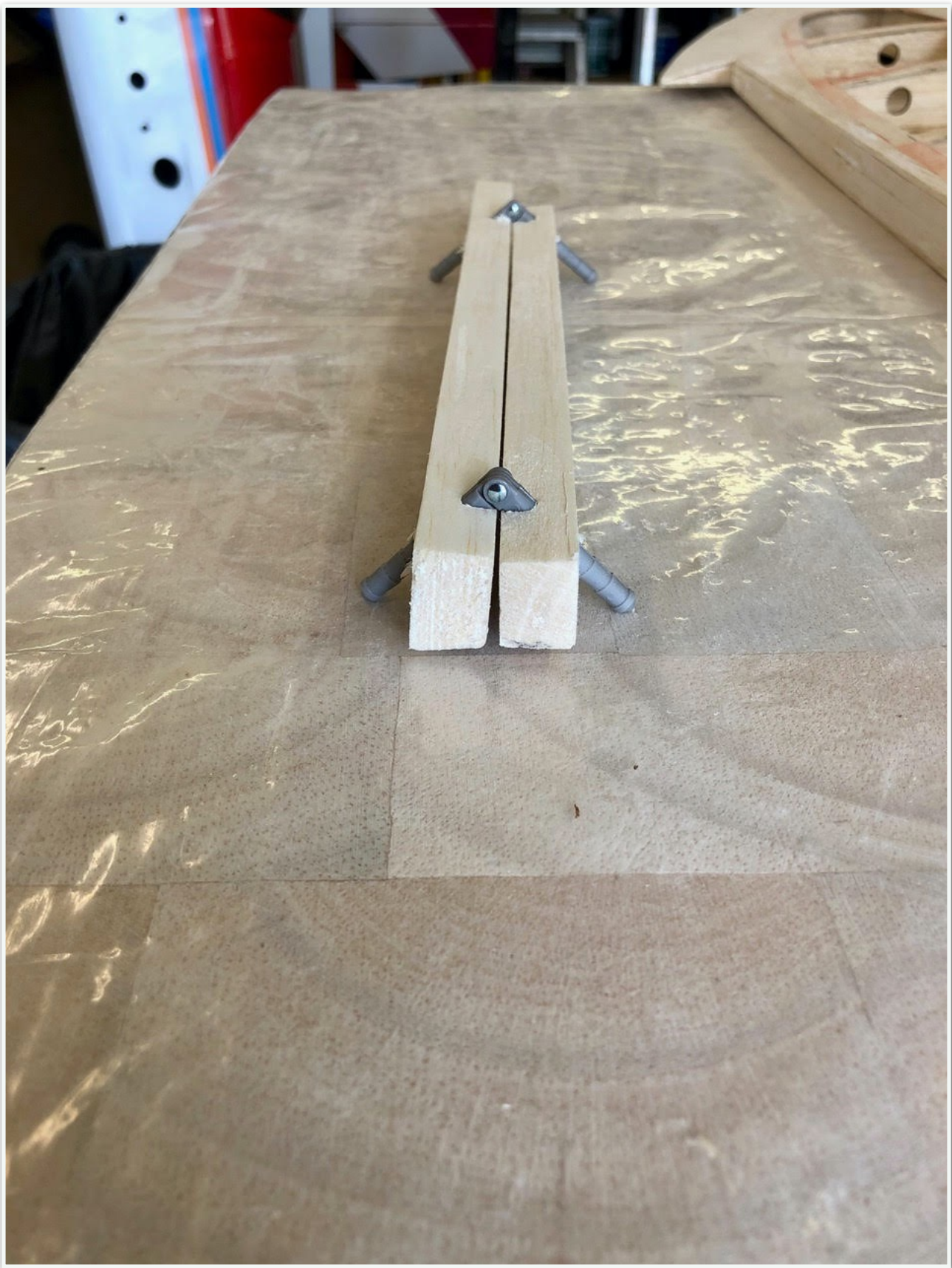
With a drill stop in place to prevent me going too far!



This gives the required set back hole



The test pieces with Robarts fitted



And having then drilled the holes in the flap and wing I dry fitted the assembly



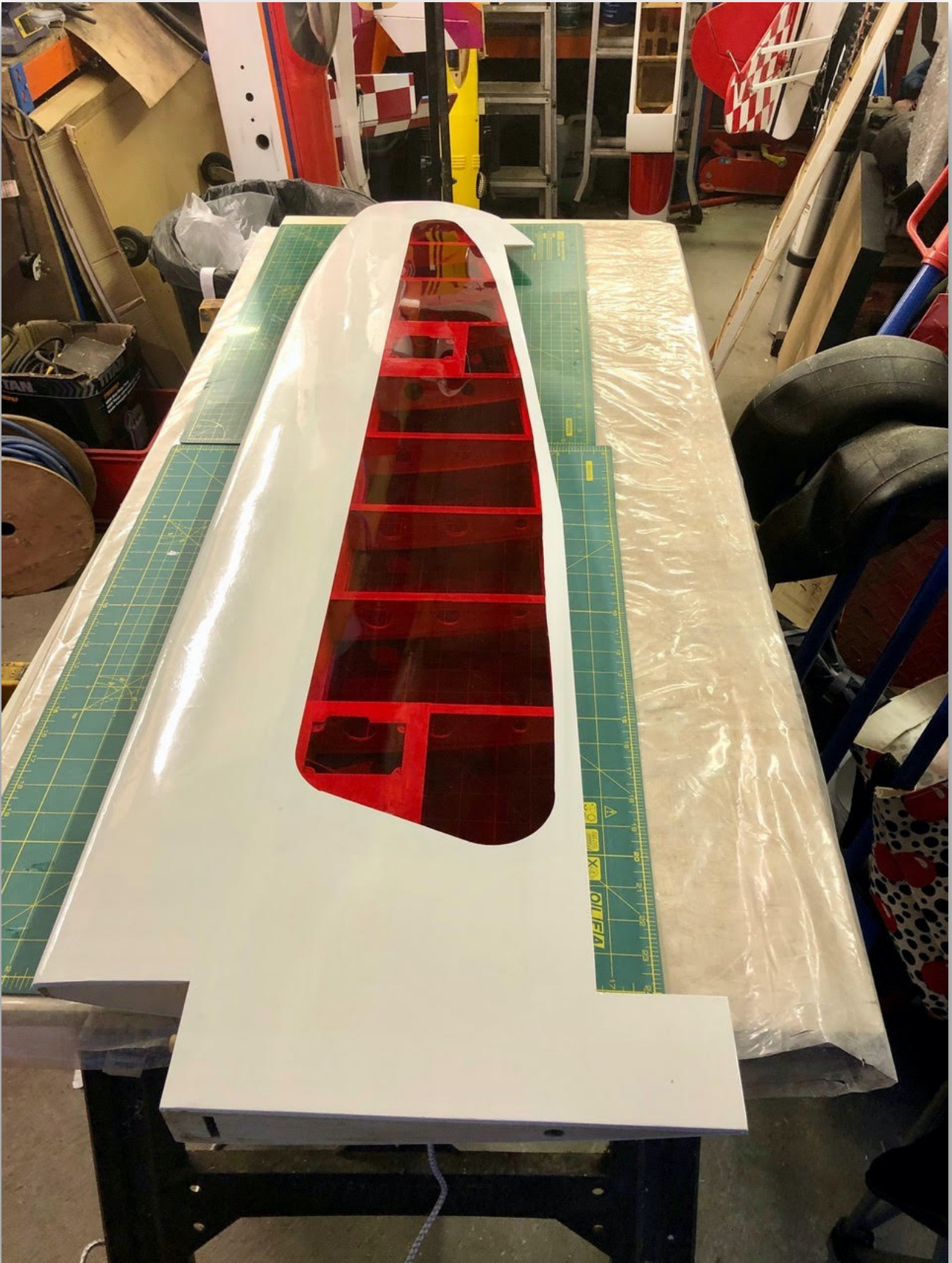
With the flaps deployed



That only left the covering to be done which took an incredible amount of time, in fact I've only completed one wing and the other won't be finished for a few days as I realised that I won't have enough white (a 5m roll is not enough for both wings!).

Still, there are plenty of other jobs that need doing so I won't be wasting time.

The one wing (the 'bad' one) covered



And the top

