

GRDESIGNS MINI INDOOR SERIES

Building Instructions

Thank you for purchasing one of our high performance micro indoor models from our range. This model is designed for unequalled aerobatic performance for the intermediate to advanced flyer. We highly recommend that you use the set up we suggest for an easy build as well as to achieve the optimum CG and flying characteristics.

Recommended Equipment	For the construction of this model you will need;
AP05 Motor/GWS5x3	Foam safe cyano and UHU Por
7A Controller	Blenderm Tape
3x 2.5g servos	0.32 piano wire
2-4g Receiver	Heatshrink

Note#: We recommend building the model as you would any other larger shockflyer, it's important that the model is built straight and true and imperative that a flat building surface is used and that where possible a set square is used.

Step 1: Use UHU Por to attach the tailplane to the wing and glue the pre cut length of 3mm carbon fibre strip to the LE of the wing, finish by gluing the front part of the fuselage to the LE of the wing with UHU Por. Please be sure to build on a flat surface.

Step 2: Turn the horizontal section over and cut a small piece of blenderm tape and tape the top of the hinge line in all corners, this step should be carried out for both ailerons as well as the elevator. All hinges are pre bevelled, tape is used to stop the hinge line splitting after continued use.

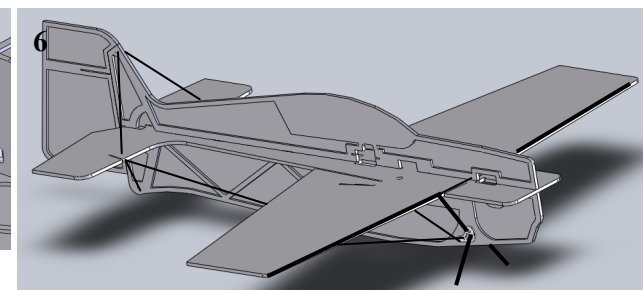
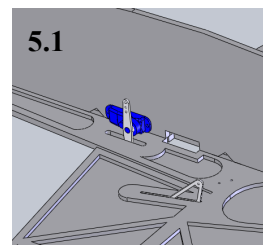
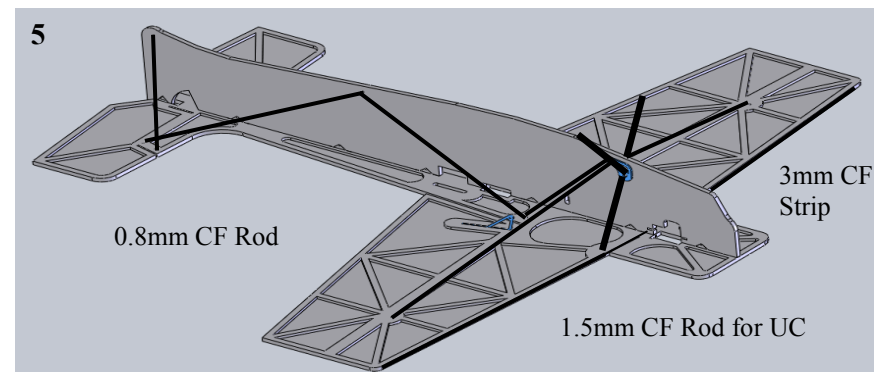
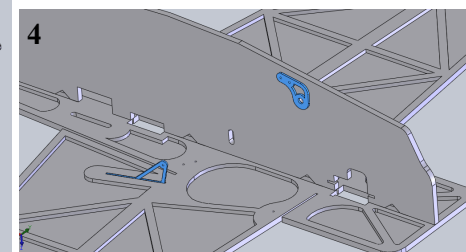
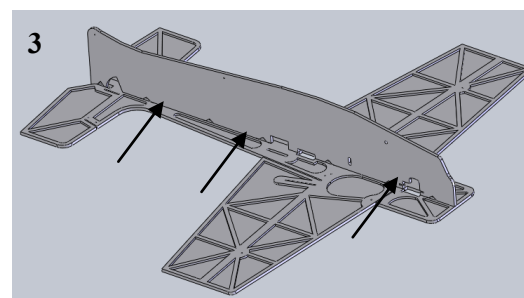
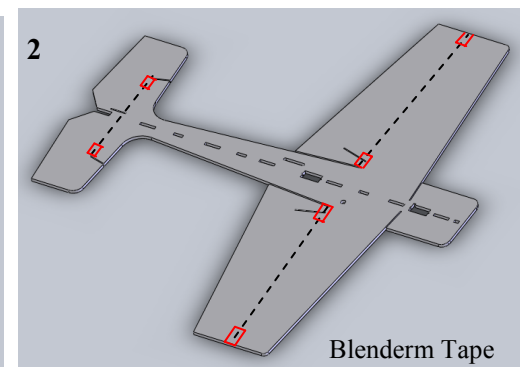
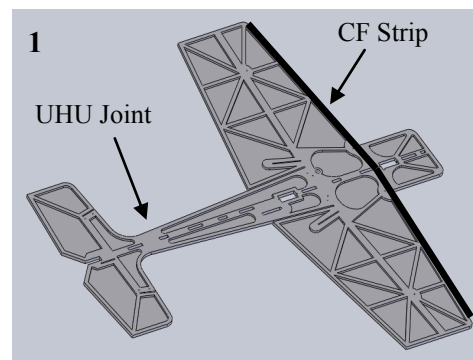
Step 3: Place the horizontal section on a flat surface, milled side upwards. Place the bottom piece of the fuselage in to the appropriate tabs using UHU Por to secure.

Step 4: Glue the fibreglass UC brackets on either side of the fuselage as shown and both aileron horns.

Step 5: All underside carbon rod (provided) can now be glued, holes are pre cut in the model to guide carbon, see diagram.

Step 6: Glue the top part of the fuselage on using UHU Por and the tabs provided to locate the part.

Step 7: Glue the tail carbon on as shown using foam safe cyano, the rudder can also be added using a length of blenderm tape to secure.



Step 8: Glue the rudder and elevator horns in to place.

Step 9: UHU Por servos in to position in slots provided, we recommend Blue Arrow 2.5g micro servos.

Step 10: Elevator and Rudder control is via closed loop wire (not provided) and is shown in diagram

Step 11: We recommend the aileron linkage is attached using z bent wire and carbon fibre, the carbon rod is provided. Please refer to diagram in seeing our recommendations.

Step 12: Secure the motor mount using blunderm tape and secure the motor using 3 self tapping screws. (The Blue Arrow servo screws are ideal for this)

Please refer to images for where the receiver and ESC should be placed.

Wires are kept short on the servos in order to maintain optimum positions for CG purposes on all axis.

We recommend the Hyperion G3 180mAh 2S lipo for ultimate performance, up to 10 mins of flying time and to gain the best CG position. (or 45-50mm back from the LE)

We recommend that all gear is lightened and done so carefully to achieve the 50g weight. ESC wires shortened, heatshrink removed and 0.8mm connectors used. A micro receiver should be used of around 2-4g

For flying when using high rates (as much movement as you can get) usually between 30 and 40% expo is recommended

Lower rates (usually around 50-60% of high rates) with around 30% expo

