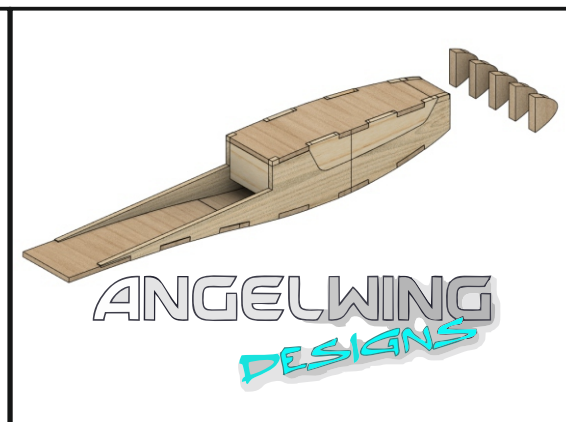
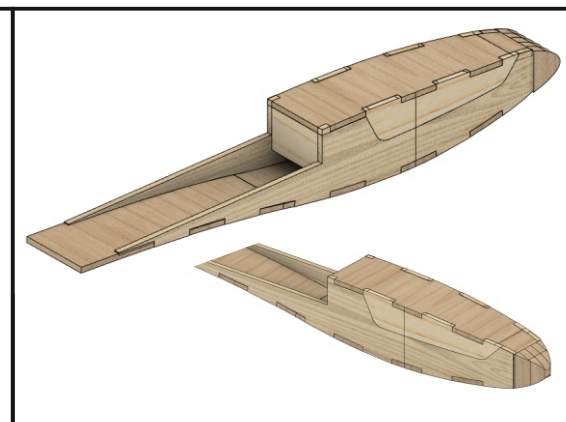
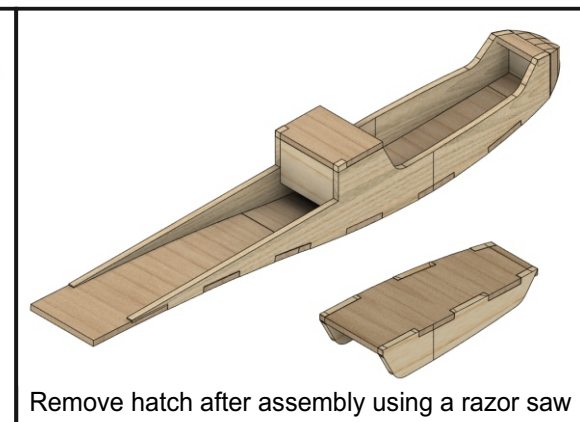
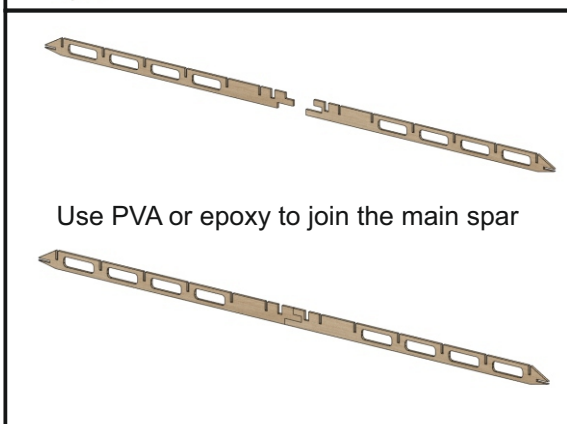
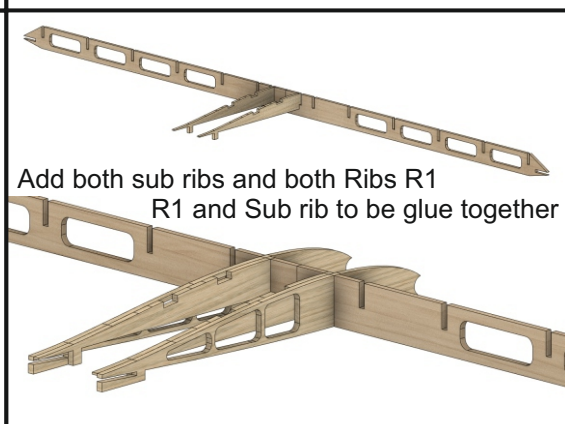
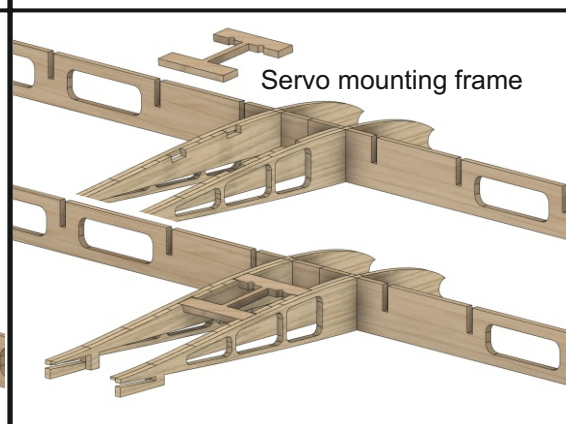
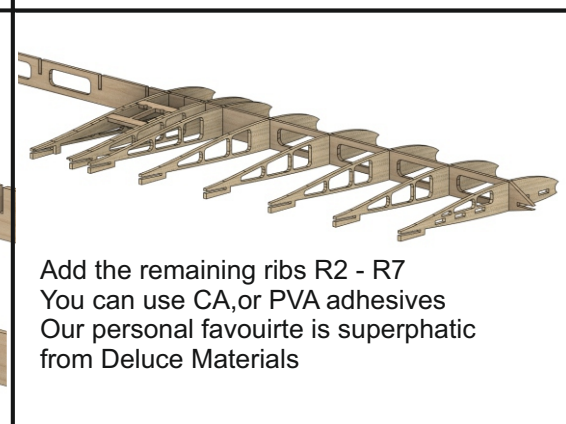
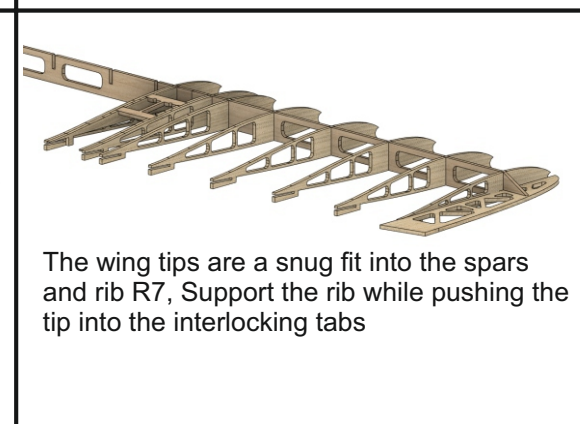
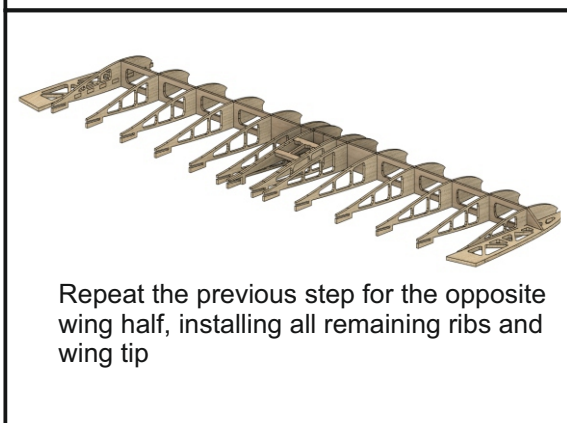
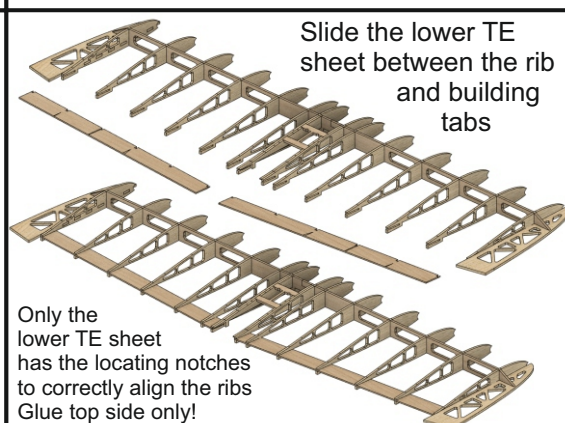
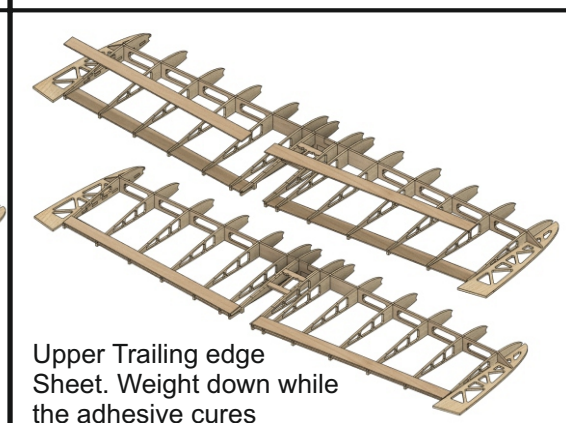
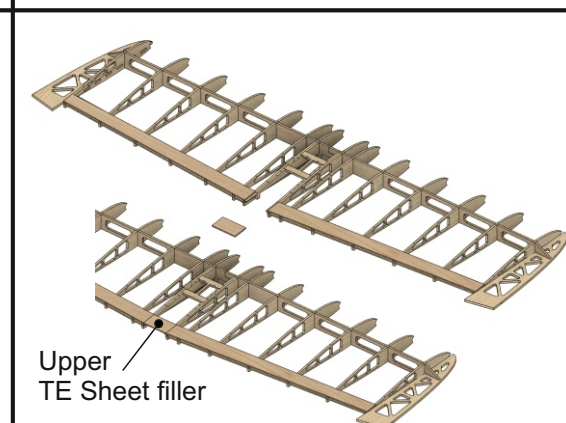
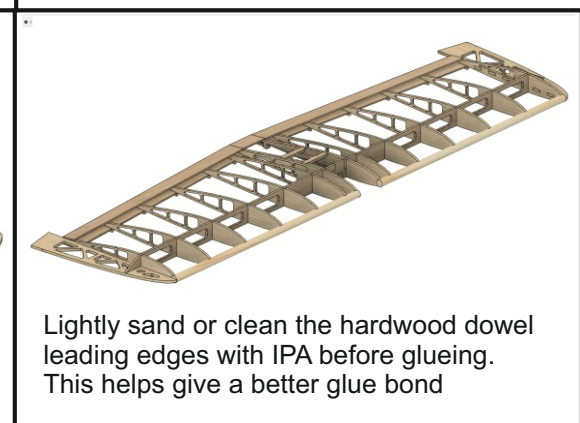
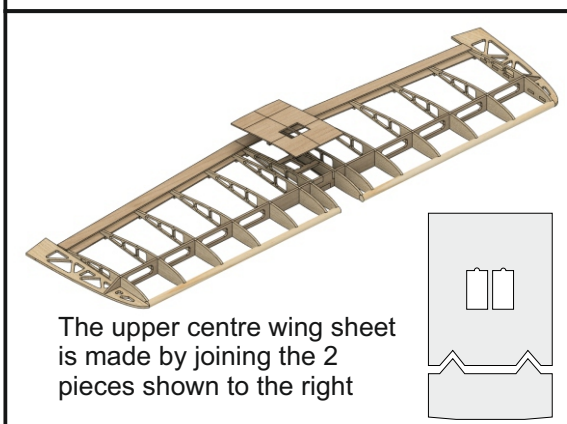
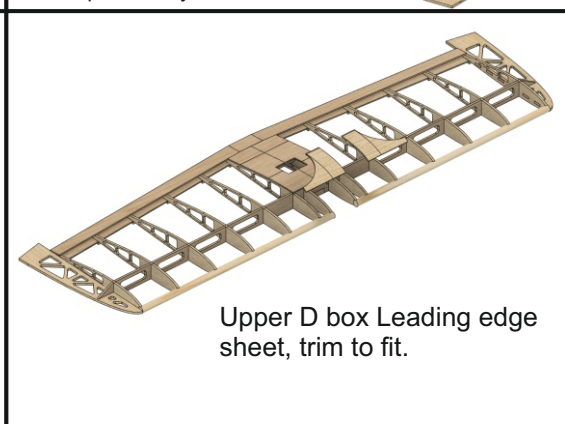
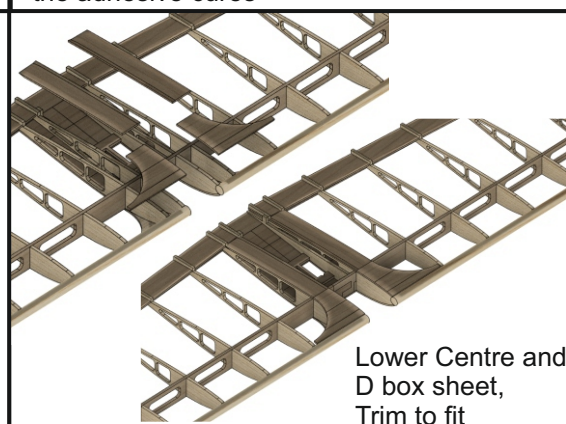
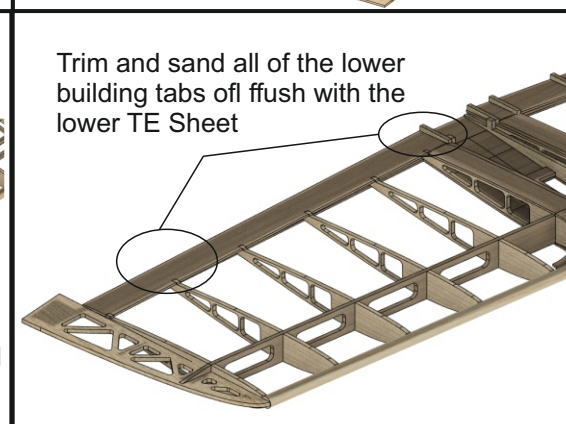
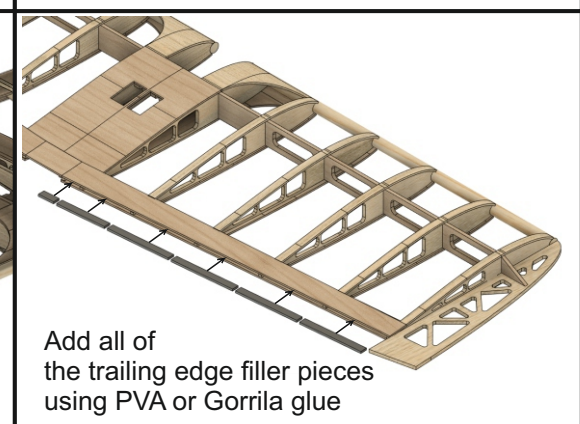
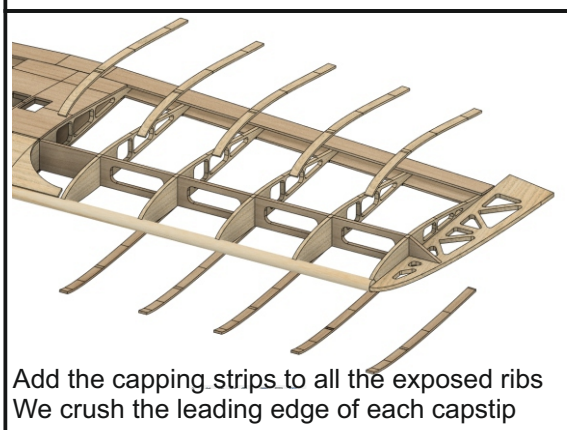
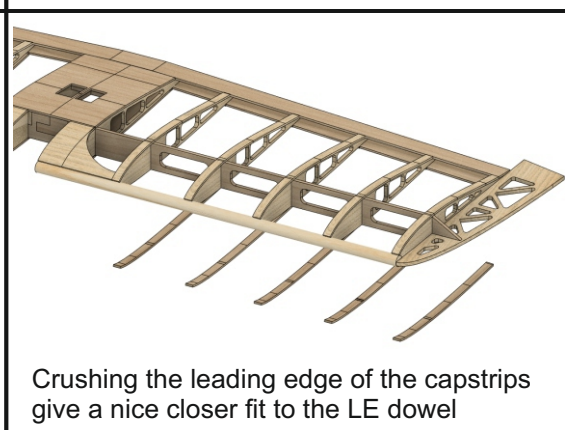
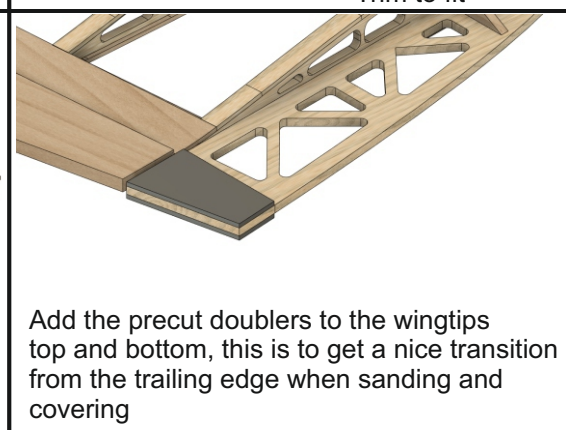
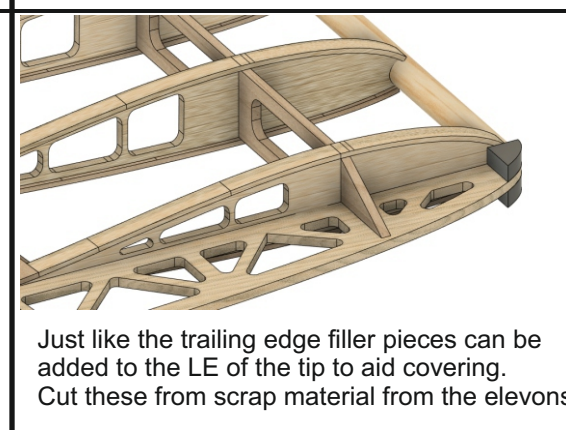
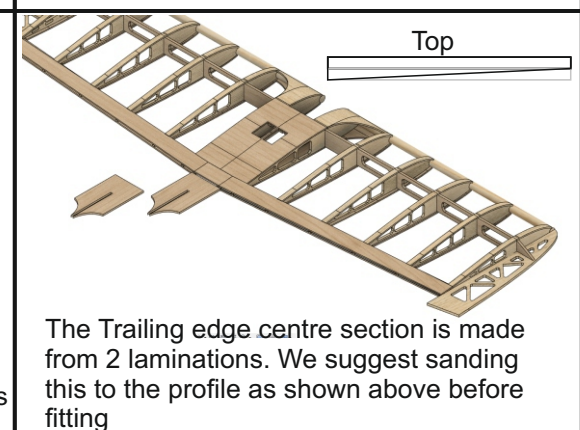
 <p>N.B. The rear former is fitted so that there is a gap for the servo leads underneath</p>			 <p>Remove hatch after assembly using a razor saw</p>
 <p>Use PVA or epoxy to join the main spar</p>	 <p>Add both sub ribs and both Ribs R1 R1 and Sub rib to be glue together</p>	 <p>Servo mounting frame</p>	 <p>Add the remaining ribs R2 - R7 You can use CA, or PVA adhesives Our personal favourite is superphatic from Deluce Materials</p>	 <p>The wing tips are a snug fit into the spars and rib R7, Support the rib while pushing the tip into the interlocking tabs</p>
 <p>Repeat the previous step for the opposite wing half, installing all remaining ribs and wing tip</p>	 <p>Slide the lower TE sheet between the rib and building tabs</p> <p>Only the lower TE sheet has the locating notches to correctly align the ribs Glue top side only!</p>	 <p>Upper Trailing edge Sheet. Weight down while the adhesive cures</p>	 <p>Upper TE Sheet filler</p>	 <p>Lightly sand or clean the hardwood dowel leading edges with IPA before gluing. This helps give a better glue bond</p>
 <p>The upper centre wing sheet is made by joining the 2 pieces shown to the right</p>	 <p>Upper D box Leading edge sheet, trim to fit.</p>	 <p>Lower Centre and D box sheet, Trim to fit</p>	 <p>Trim and sand all of the lower building tabs of flush with the lower TE Sheet</p>	 <p>Add all of the trailing edge filler pieces using PVA or Gorilla glue</p>
 <p>Add the capping strips to all the exposed ribs We crush the leading edge of each capstrip</p>	 <p>Crushing the leading edge of the capstrips give a nice closer fit to the LE dowel</p>	 <p>Add the precut doublers to the wingtips top and bottom, this is to get a nice transition from the trailing edge when sanding and covering</p>	 <p>Just like the trailing edge filler pieces can be added to the LE of the tip to aid covering. Cut these from scrap material from the elevons</p>	 <p>The Trailing edge centre section is made from 2 laminations. We suggest sanding this to the profile as shown above before fitting</p>

 <p>When attaching the centre trailing edge section it is important to follow the contour of the underside of the wing section. You can do this by holding the rear of the wing flat against your bench / building surface. This gives the correct amount of reflex as a starting point for test flights</p>	 <p>Sand / plane the elevons to shape The outside edge of the elevon should be approximately 2mm thick, don't forget to angle The exact section isn't critical however</p>	 <p>Test fit the elevon control horns before covering, do not glue at this stage</p>	 <p>Test fit the servos before covering adjust the openings to suit your servos before covering or adding the fuselage</p>	 <p>Test fit the fuselage and fin. Whilst the fuselage can be glued into place not it is easier to cover first and then fit the fuselage</p>
		 <p>The Kit includes a 3D printed magnetic hatch retainer and additional magnet. Use a dremel tool or similar to embed the 2nd magnet into the underside of the canopy area</p>	 <p>Use an offcut of the poplar ply to create a tongue for the front of the hatch</p>	 <p>Time to make some dust!. There is very little sanding so take your time to get a nice finish as this is the secret to a smooth ride covering</p>
		<p>You can now glue the fuselage into place The fin, and mount your elevons and control horns. The elevons can be hinged from the top using film covering or something like diamond tape, or you can sand a traditional bevel onto the leading edges and use thin mylar hinges if preferred, If you do use a mylar hinge make sure there are no gaps between the elevon and trailing edge of the wing. This can lead to a noticeable drop in overall performance , particularly low lift performance</p>	<p>The Plastic snap link / clevises are simply glued to the carbon rod pushrods using thin CA or epoxy if you prefer more working time. Please note that the servo arms should be mechanically cranked forward so the pushrod and servo arm form a 90 degree angle. This gives the best geometry and reduces the need for electronic differential for aileron.</p>	
 <p>Designed around a 4 cell AAA RX Battery</p>	<p>The sweet spot for the CG is 38mm from the leading edge We suggest you start at 36mm however and adjust this to suit yourself after test flights.</p>  <p>38mm</p> <p>My own model has 30g of lead shot glued in front of the battery to achieve this CG figure</p>	<p>Suggested control throws, Elevator 10 degrees up and 10 degrees down Aileron 20 Degrees up and 15 degrees down 30% expo recommended on both aileron and elevator</p> 		

These instructions and model are intended for people who have some building and flying experience. Our facebook builders group is a very friendly resource where pretty much any question that arises during a build such as this can be answered quickly, and often from more than one single view point. Please remember that model aircraft are not toys and should be flown in accordance with all current regulations and in a responsible and safe manor. We designed the dammit as a quick to build and fun compact model for slope flying in winds around 10 to 30mph. The structure is built with this in mind to achieve a typical flying weight of approx 300g which will give good all round flight performance without getting blown back from the slope. We hope you enjoy building and flying our models and are always happy to receive feedback [email awdbalsakits@gmail.com](mailto:awdbalsakits@gmail.com)

ANGELWING
DESIGNS