

Rebel Alliance Snowspeeder – 1:52 Scale

Assembly Instructions

Design by Sean Kelly



Creator's Notes

This assembly was arranged and completed in my idle time, and was originally intended for personal use. After using and sharing files on www.swminiatures.com I elected to share this work with the community. This was also my first attempt at a paper model, so you will find some unconventional and counterintuitive folds. I apologize in advance for any frustration this assembly may cause you.

General Instructions

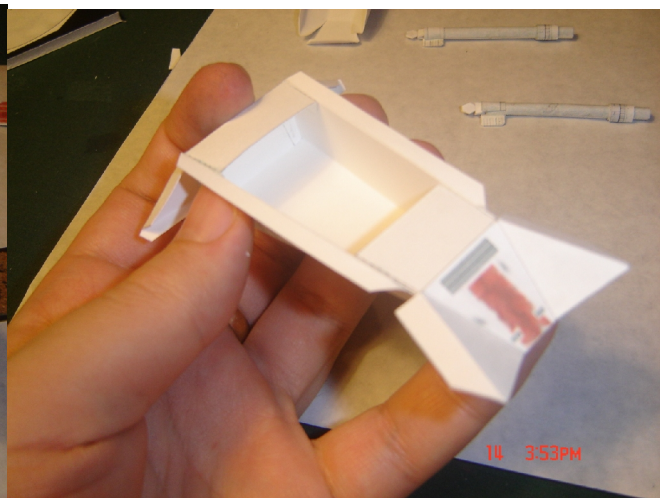
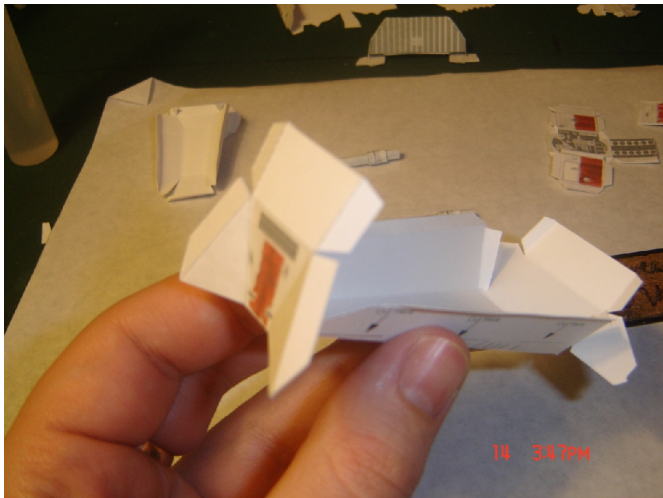
I have, since the original design, begun using UHU Office pens as a primary adhesive. I found however, that the applicator is a little large for some of the components, I recommend using low water content glue with a brush applicator. This will allow you the best possible control over adhesive application. All cuts should be completed (carefully!) with a sharp hobby knife. Fold lines can either be scored with a knife or ballpoint pen; I have used both methods successfully during the course of the design and final completed models.

Sub Assemblies

All of the listed sub assemblies can be completed independently, and may be completed as a part of the final assembly or in preparation.

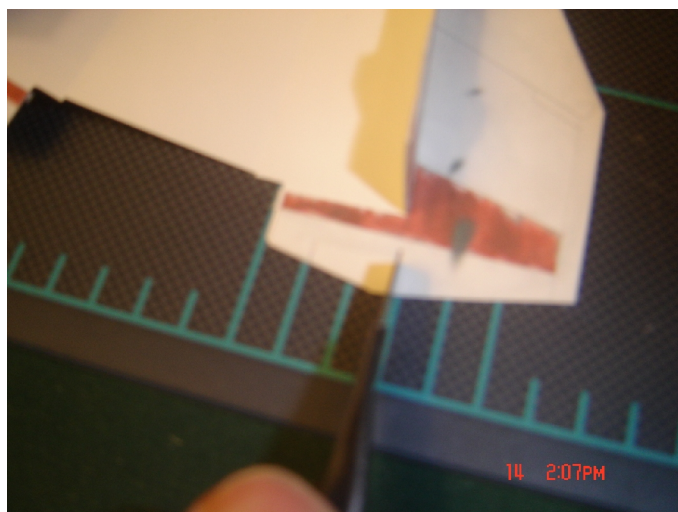
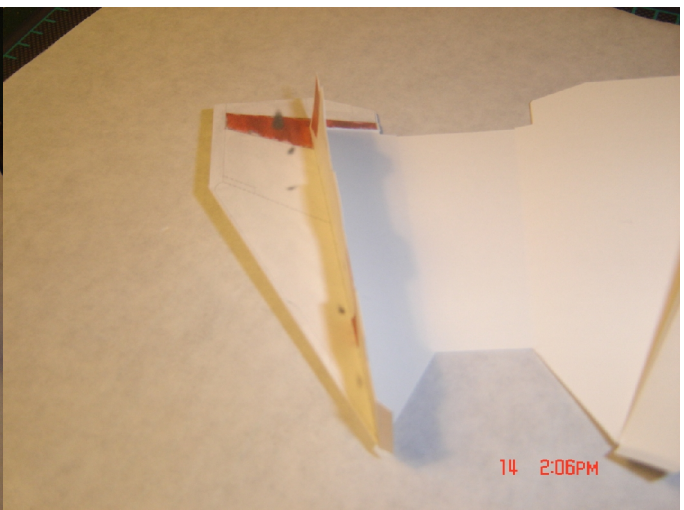
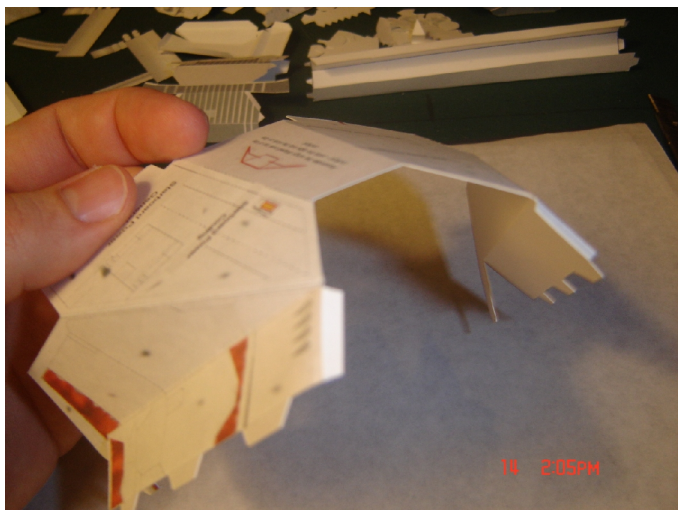
Cockpit

Once cut out and scored(do not cut the indicated slots yet), flip the part face down and fold the main walls 'up' to form a box as shown. Glue the rear tabs inside the box, and then fold the top flap over, trapping and gluing the short tabs inside. Fold the forward tabs outwards and glue along the fold line, leaving the front flaps loose. Fold the front cover over and glue the tabs inside the box.



Wings

Once cut out and scored, fold the wing underbodies over and glue, taking care to leave the fuselage 'wing to body' flap free. Leave the capacitor cut-outs until after gluing the wing underbody, cutting them out with a hobby knife once the glue cures.

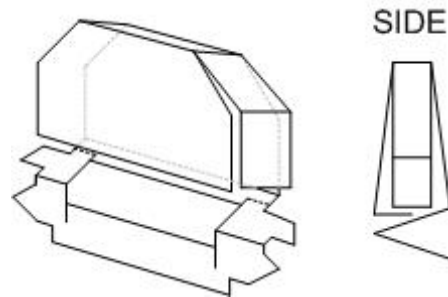
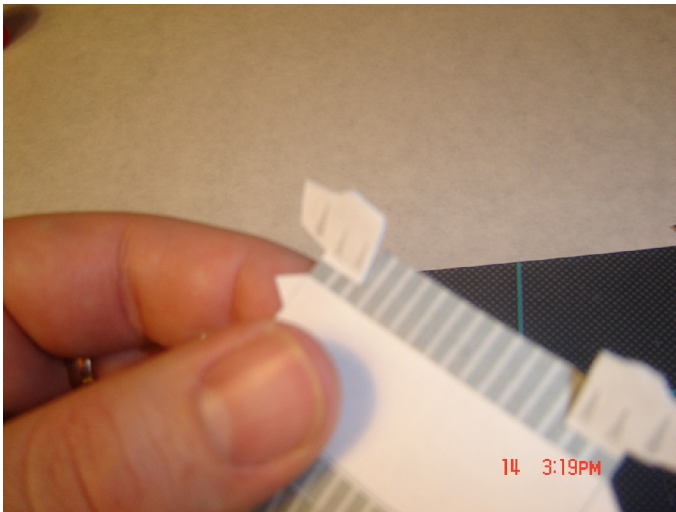


Canopy / Harpoon Gun

For the Canopy, fold the two halves labeled 'fold these two halves together' together, glue and let cure completely before continuing work on the assembly. Glue the remaining tabs inside the canopy halves, creating two trapezoidal boxes. Take care to align the two joining tabs with the angle of the outer canopy. For the Harpoon gun, fold and glue the two halves over. There are two half-circle tabs that should be left unglued.

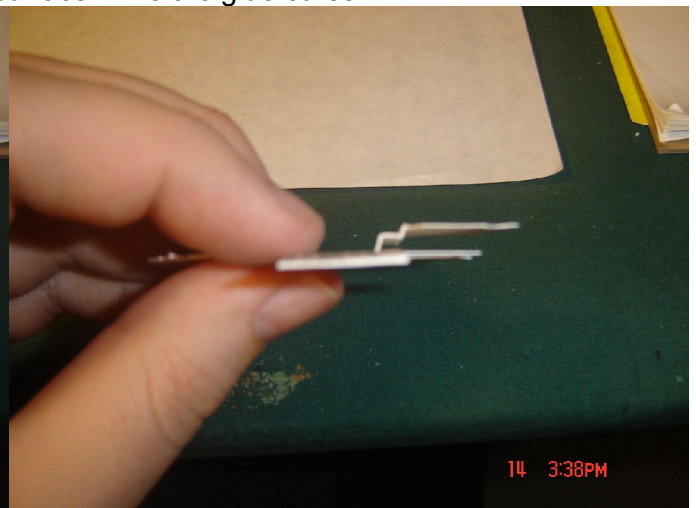
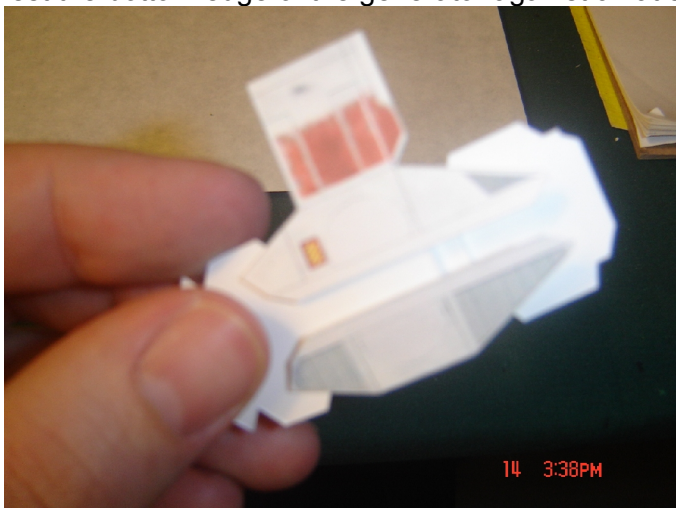
Engine

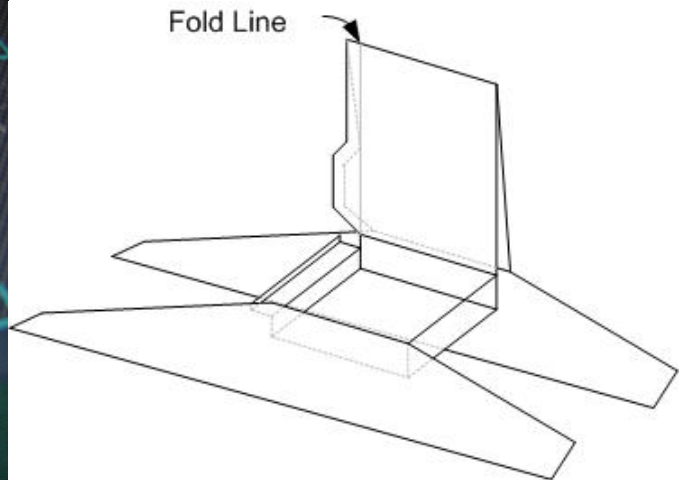
Fold the main flaps panels over and allow the glue to set before cutting the extraneous paper away. Cut along the flaps and score to allow posing as desired. Fold the main panels over and glue. Align the side panels with the blank face and glue against the tabs. If assembled correctly, the blank face will be perpendicular to the top and bottom faces. The textured panel should be on a slight angle.



Power Generator

The power generators have two options, ones with positional 'brakes' and ones left plain. You need to assemble the 'positional brake' generators in stages, starting with folding and gluing the brake panels and the opposing interior wall panels. Keep the glue free of the main panels, as they need to be realigned upright after the glue cures. Once the glue is cured, carefully fold the long side panel as shown. Fold the front and back panels upright and glue the side panels along the tabs. Finally, fold the edge of the 'brake' to match the angle of the side panel. If possible, have the bottom tabs pre-folded and rest the bottom edge of the generator against a flat surface while the glue cures.

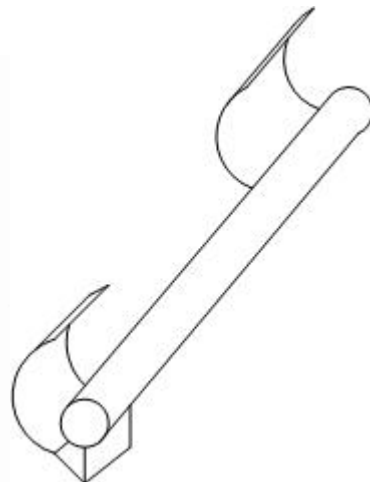
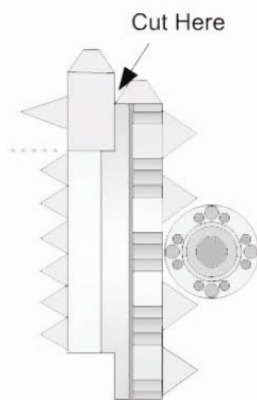
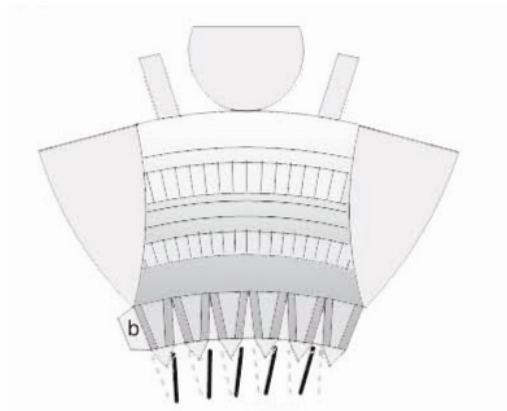




The optional generators are easy 'boxes', fold and glue along the tabs. The rectangular power couplings are folded in a similar manner.

Conical Power Couplings, Weapon Capacitors, and Laser Barrels

The Conical Power Couplings are folded into a conic shape roughly similar to a bullet. Using the guides printed on the page, cut along the edges indicated by the solid lines and scoring along the lines indicated by the dotted lines. Run the edge of the knife (or pen on the blank side) along the curved tabs on both sides. Carefully glue (using a small applicator or brush) the triangular tabs to the section beside it, creating a rough 'fan' shape. Once the glue sets, fold tab 'B' over and glue to the opposing section. Fold both curved tabs over, gluing between them and holding carefully until set. Resting the assembly on a flat surface will help keep the shape correct.



The Weapon Capacitors need to be rolled into a cylinder, gluing the tab on the longest edge to the edge opposite it. The tab on the shortest edge should be folded to form a 'bridge' and is used to help keep the cylinder shape and secure the capacitor to the wings. Cap the cylinder by gluing the triangular tabs and folding the circular shape over them.

Roll the Laser Barrels into a long tube, leaving the long tabs untouched. There is a line indicating where the glue should be applied and where the edges of the textured tube should mate. Once the glue cures, dab a small amount between the hexagonal tips and press them together. Apply glue to the blank side of the long tab (the entire length) and carefully roll around the tube, allowing it to build up and create some 3D texture. Fold the short tab as shown then apply glue in a similar manner to the long tab. If folded correctly, the short tab should have just enough length to encircle the barrel.

Base and Stand

Glue the base to a square of foamcore, and let cure. Cut around the base and mark the edges with a black marker. Cut on the solid lines in the center, piercing the entire foamcore. Lever the edges of the knife to open the slots a little to ease assembly of the stand.



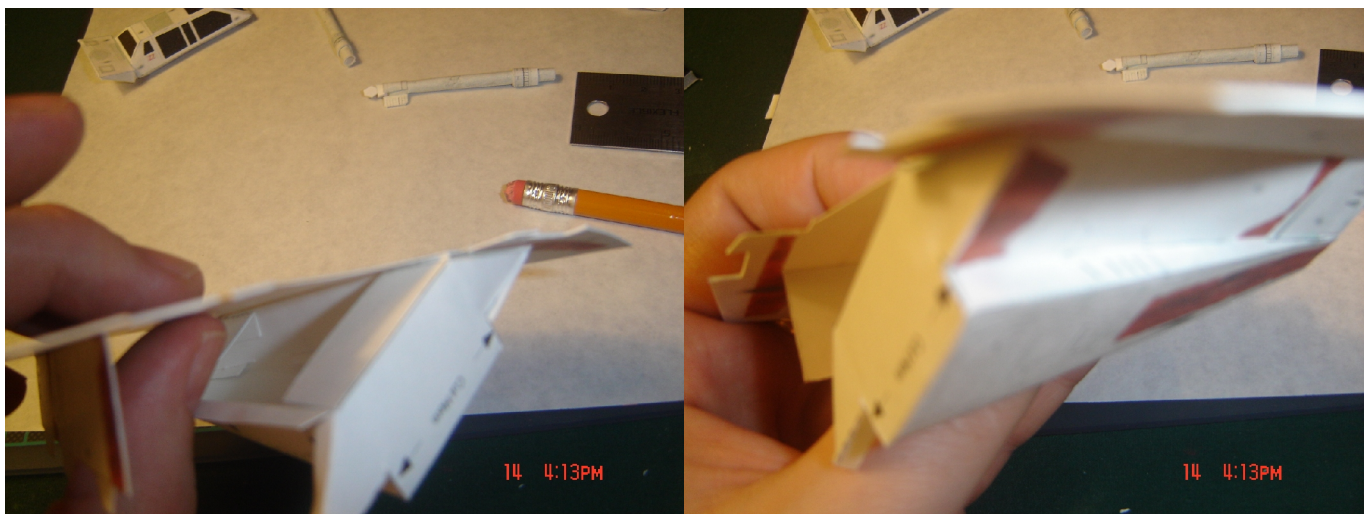
Fold your preferred stand into a rectangular tube. Glue along the tab and allow to set. Glue the edges of the largest tabs and insert into the base. Allow to cure before assembling to the finished snowspeeder. If you prefer, the stand can be printed on clear acetate. Be certain to score with the dull edge of a knife or the acetate will tear. You may need to use a stronger adhesive (or tape) if using this option.

Main Assembly

The remainder of the assembly should be completed in order.

Wing to Body Assembly

You can either cut slots into the side of the Cockpit, or fold the tabs on the Wing to fit. It is easier to align the Wing-to-Body panel using the slots, but it is more difficult to fully assemble. Either choice produces a sturdy model.

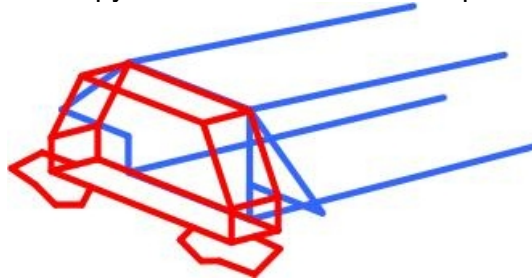


Starting with one side, apply glue to all of the tabs, including the tabs on the mating Wing-To-Body panel. At this point do not apply glue to the dorsal (top) tabs or to the opposite side. Insert the Wing-to-Body tabs into the marked slots and align the wings with the tabs on the cockpit. The front wing section should mate perfectly with the angle of the front flaps. Allow the side to cure, then apply glue to the dorsal tabs

on the Cockpit as well as the opposing side tabs on the wing and cockpit. Working carefully (use a slow setting glue), fold and press the wing over the cockpit and align the tabs into the slots on the opposing side. A thin hobby tool or knife may be required to lever some of the tabs in place. Allow the assembly to cure; aligning the wings to be sure that the assembly is symmetrical.

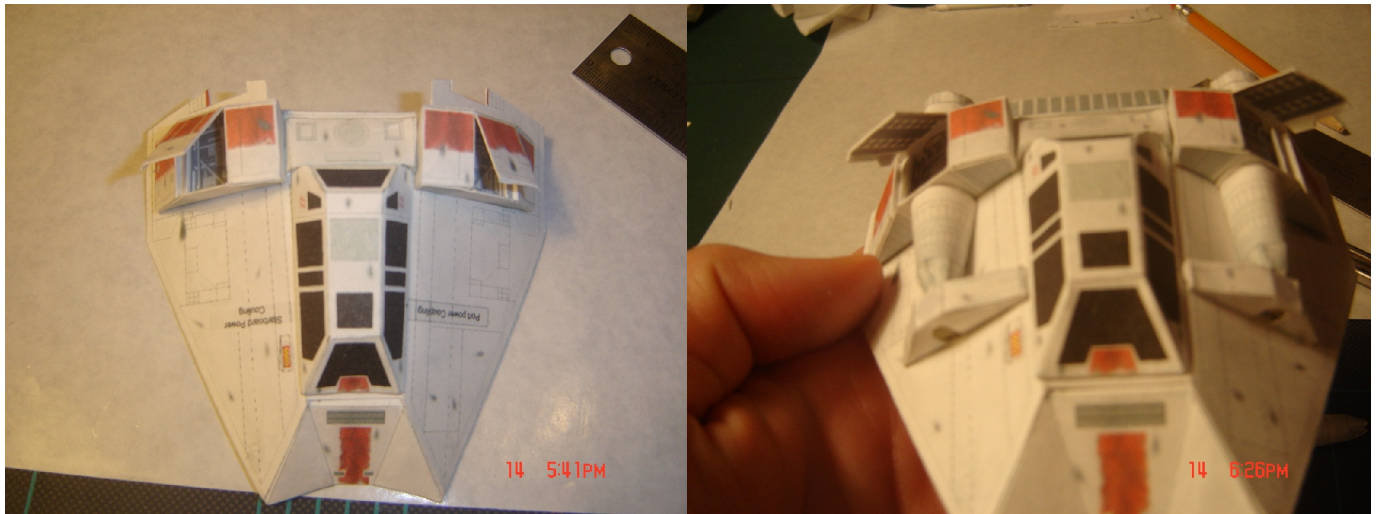
Engine and Canopy Assembly

Apply glue to the tabs on the underside of the canopy and align the front of the canopy with the top edge of the snowspeeder. Secure the canopy until it cures. If assembled correctly there should be a short (1/8") gap between the end of the canopy and the end of the snowspeeder.



Apply glue to the back half of the snowspeeder body (it is left without texture save color). Press the engine assembly against the back half, aligning the top of the engine with the top of the snowspeeder.

Final Assembly and Mounting

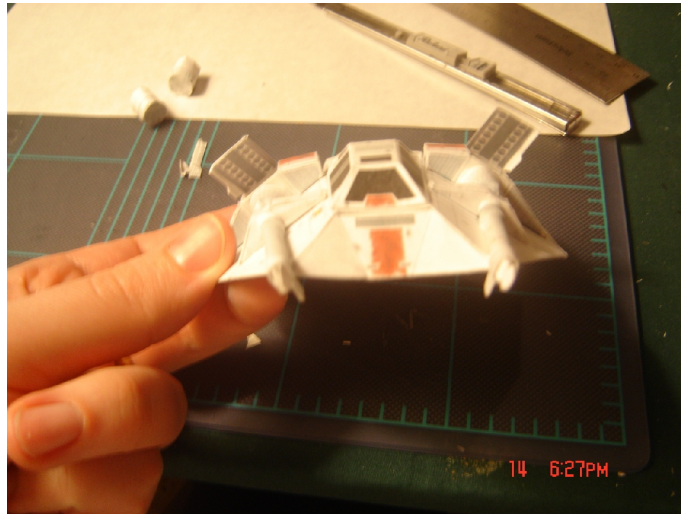


Before applying any glue, test fit each component to be sure they fit up properly. Be careful you assemble each component in order and glue both sides at the same time to ensure perpendicularity.

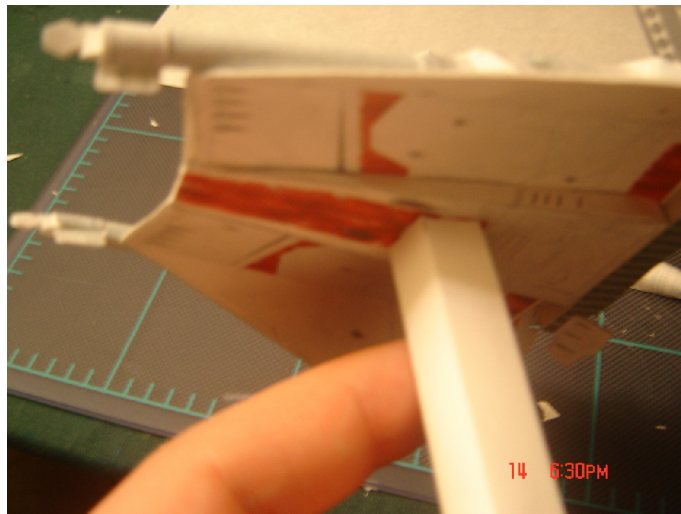
Apply glue to the bottom tabs on the Generators and press onto the Wing panels. The red markings should be furthest back (as shown). Align the front of the generator with the straight folded edge of the Canopy. If you have misaligned the canopy (placed it too far back) align the generators with the forward edge of the engine assembly. Note that if placed properly, they will be at a slight angle, following the line of the canopy.

Apply glue to the flat faces of the couplings, and align with the semicircle on the front face of the generators. Keep them centered with the dotted guide line drawn into the wing panel. Apply glue to the front of the coupling and glue the bottom tabs on the rectangular power couplings. Ensuring that the long edge is facing the canopy, press and align the two couplings together. The cutout should be directly opposite the glued faces (see picture).

Glue the tabs on the capacitors and press into place at the rear of the generators. They should fit perfectly into the cutout sections on the wings. Finally, apply glue to the bottom edge of the laser barrels (the edge where the glue guide line is) and insert into the cutout sections of the rectangular capacitors. Be certain to align both barrels at the same time. They should overhang the edge of the wing and cross the outermost point of the wing. The tabs at the bottom should be a slight angle facing inwards.



Once cured, cut the tabs at the underside of the snowspeeder (they are difficult to see as they align with the red markings). Insert the top tabs of the stand into the underside. Gluing is optional but recommended. If you so choose, assemble the optional stand (like a small box) and use the snowspeeder as scenery.



I hope you enjoy!

Sean

If you need any assistance with specific portions of the model, please feel free to contact me on the boards at www.swminiatures.com or by e-mail: t.c.fire@gmail.com