

### **OO7 JET**

**Depron Bede BD-5, with plans**

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**[HTTP://WWW.RCGROUPS.COM/FORUMS/SHOWTHREAD  
.PHP?T=1141686](http://www.rcgroups.com/forums/showthread.php?t=1141686)**

**Span: 35"**

**Flying weight: 570g (with 2200mah LiPo and rudder servo)**

**Motor: 2212-06 (2200kv)**

**Prop: APC 6x4E**

**ESC: 30A+**

**Battery: LiPo - 3S 1800mah or heavier required for balance**

**Servos: 2x 9g (3 with optional rudder)**

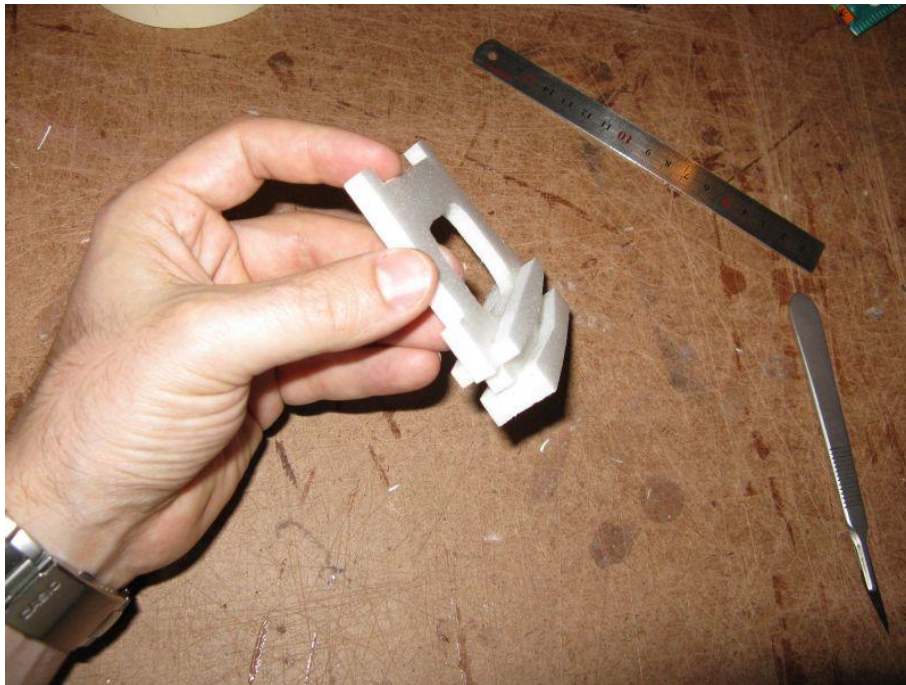
**CG position: 1/2" in front of centre of wing spar.**

This model is relatively easy to build, looks pretty in the air and is a pleasure to fly. It can be hand launched, or take off from its belly. It does beautiful loops, aileron rolls and knife edge passes.

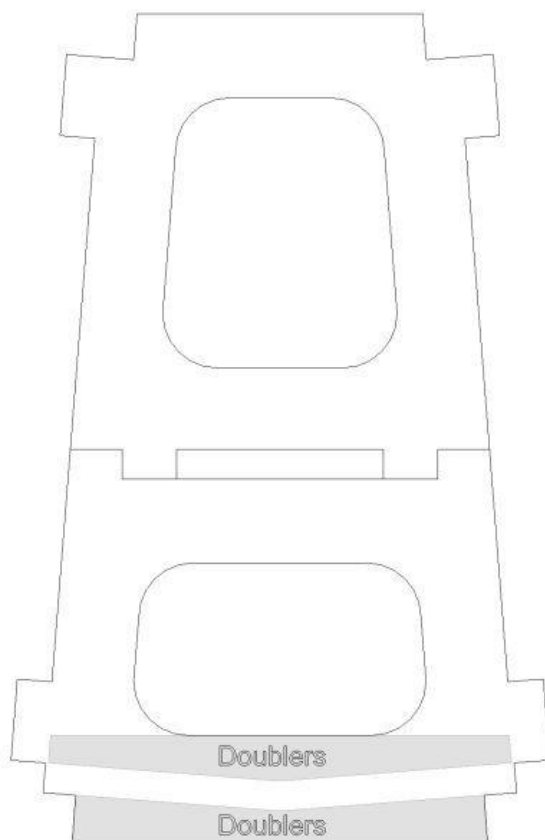


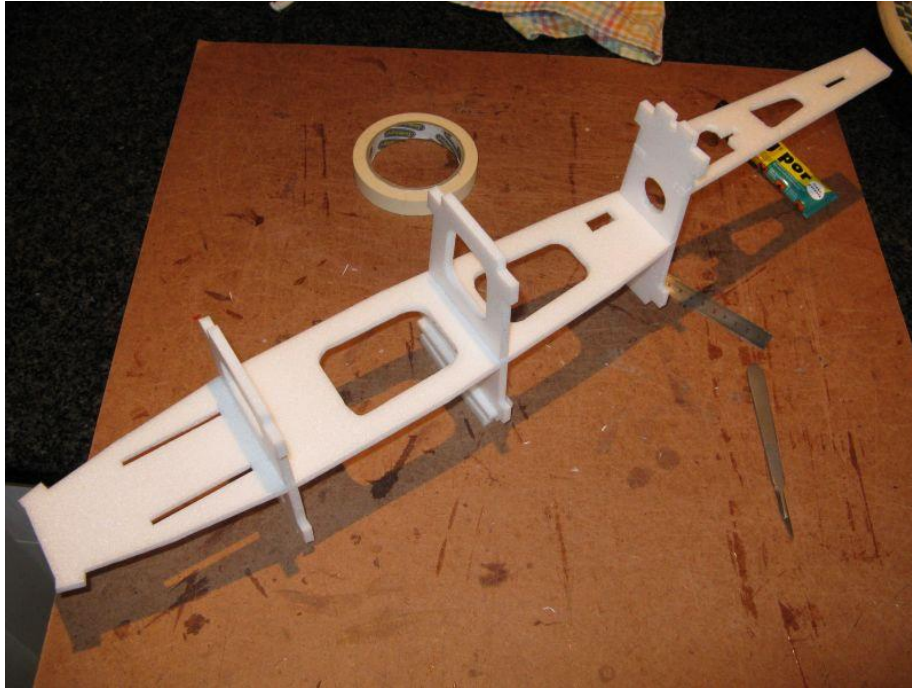




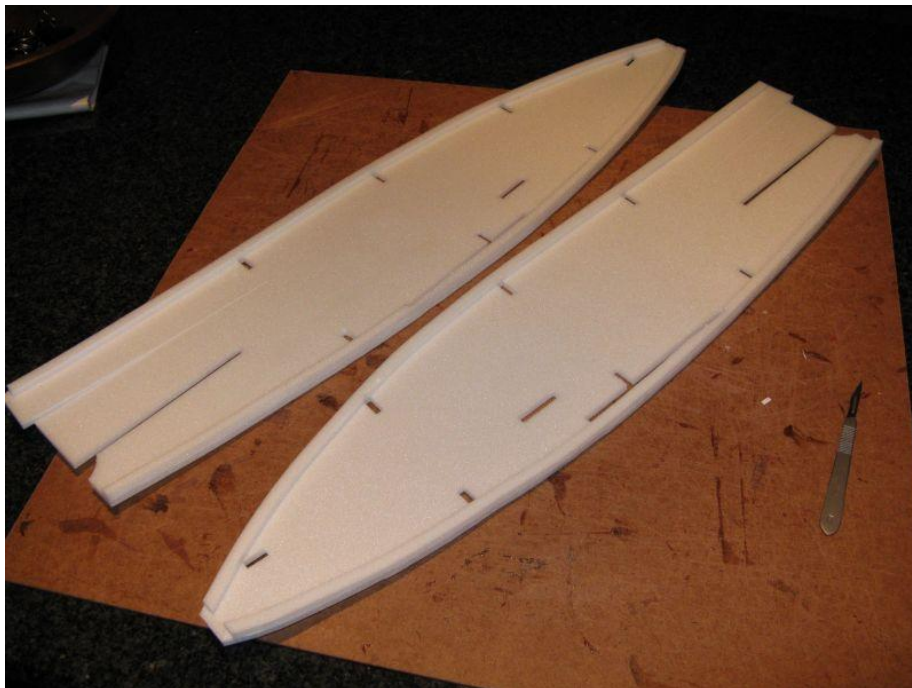


Start by gluing the doublers to the middle former in the positions shown in the next picture. These determine the wing dihedral.





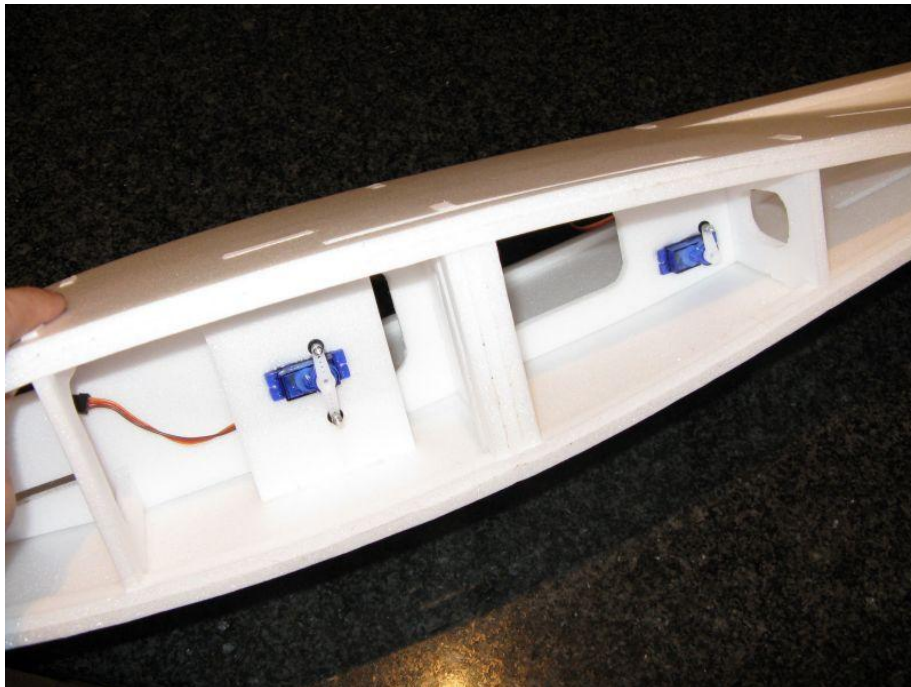
Assemble the skeleton of formers. It is easier to cut the elevator servo slot before this step.



Cut four 9mm wide strips from 6mm depron and glue to the top and bottom edges of the fuselage sides. Allow space for the nose and motor mount formers. Cut open the slots that are partially covered by the strips.

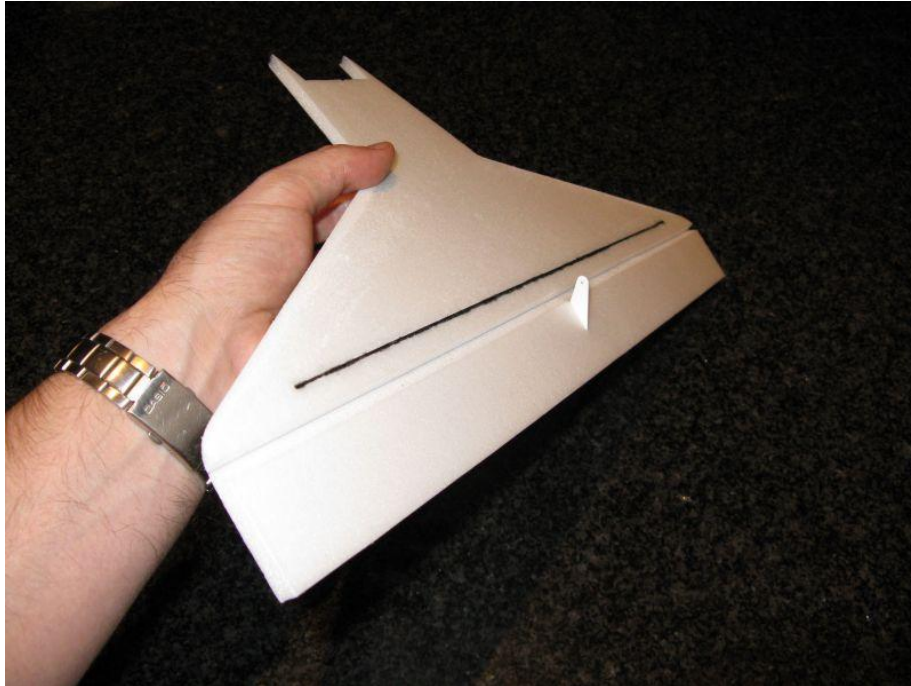


Glue the fuselage sides to the skeleton, making sure everything is aligned. The tabs stick out from the sides so that they can be sanded flush later. Also add the nose and motor mount formers (not shown).



Install the aileron and elevator servos.





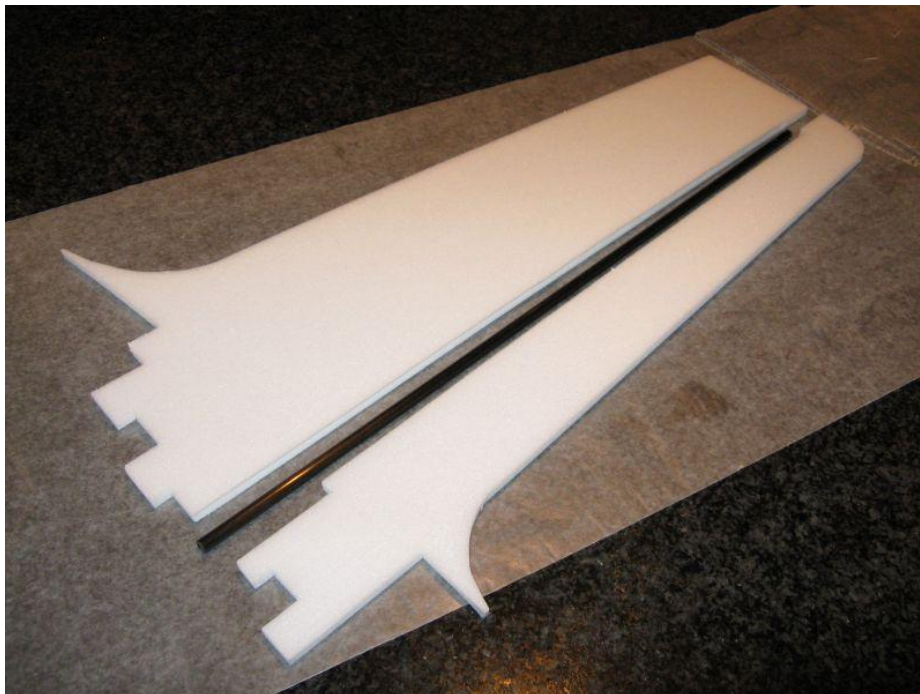
Slot the stabilizer to accept the carbon spar and glue in place.  
Complete the elevator with the hinging method and control horn of your choice.



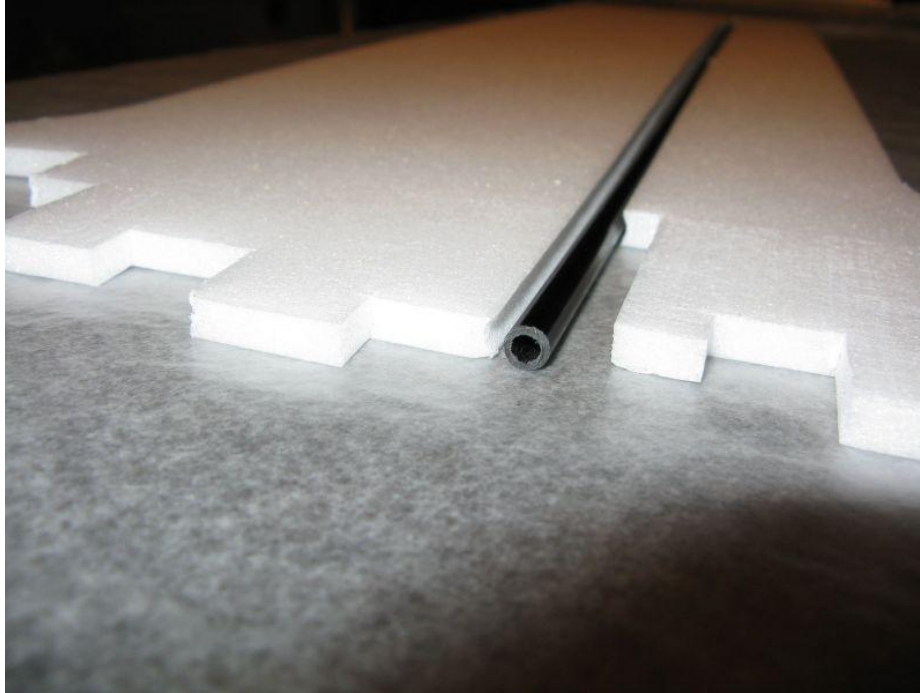
Complete the rear fuselage by glueing the rear edges of the fuselage sides together, then install the stabilizer and glue the bottom of the motor housing to the top of the fuselage sides.



Install the elevator pushrod. Note the pushrod guide.



Cut out the wings and slot them to accept the wing spars. The width of the slot should be about 75% of the spar diameter. The plans show a slot for a 6mm diameter spar.

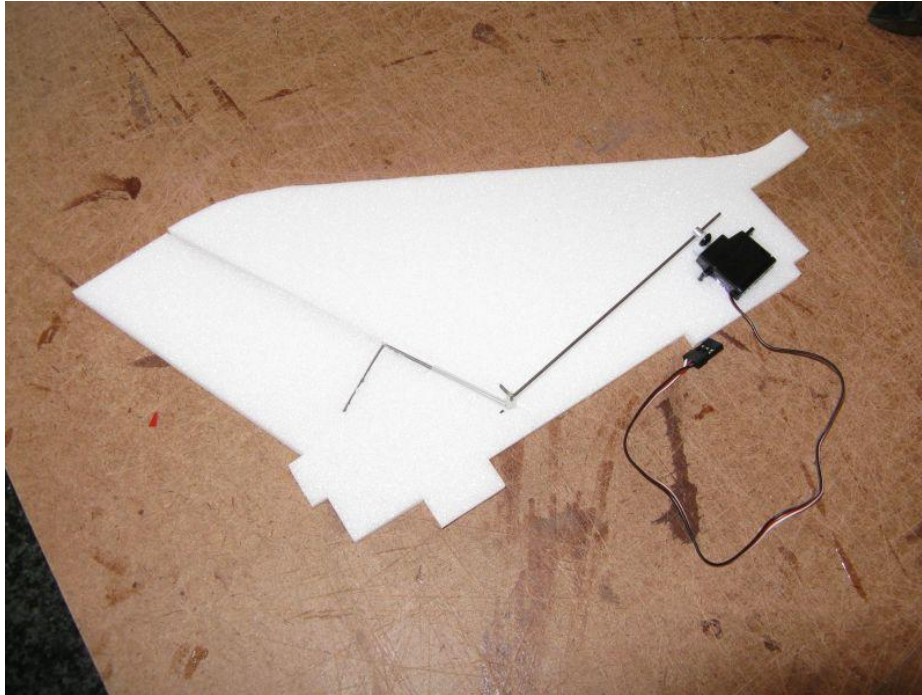


Run the spar down the edge of the slot to form a recess. It is important that the spar is in the correct position for the wings to slot into the fuselage easily.



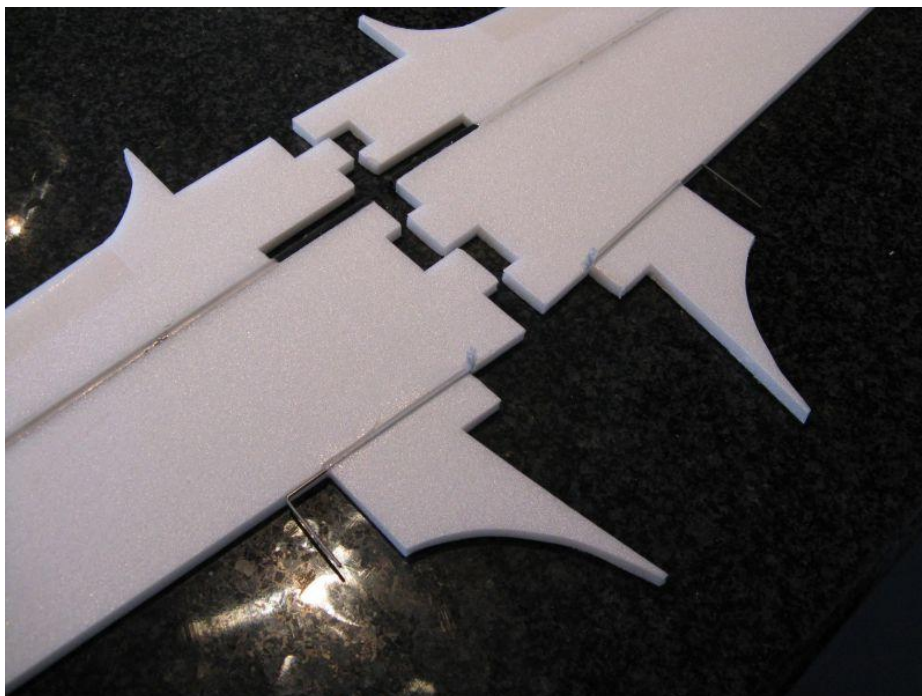
Epoxy the spars in position. I used epoxy and micro balloons to hide the spar on the top surface of the wing.





Install the rudder servo, torque rod system and rudder hinge of your choice. Make sure everything moves freely as space is limited.

NOTE: The rudder is optional; it is not needed for general flying but helps with belly take-offs and is needed for knife edge flying.



Install the aileron torque rod system of your choice. DO NOT install the ailerons yet.



Slot the wings into the fuse. Rotate the torque rods so that they pass through the slot. Use epoxy where the wings slot into the former and where they join together.



Need thin fingers for this: hook up the aileron torque rods to the aileron servo push rods.

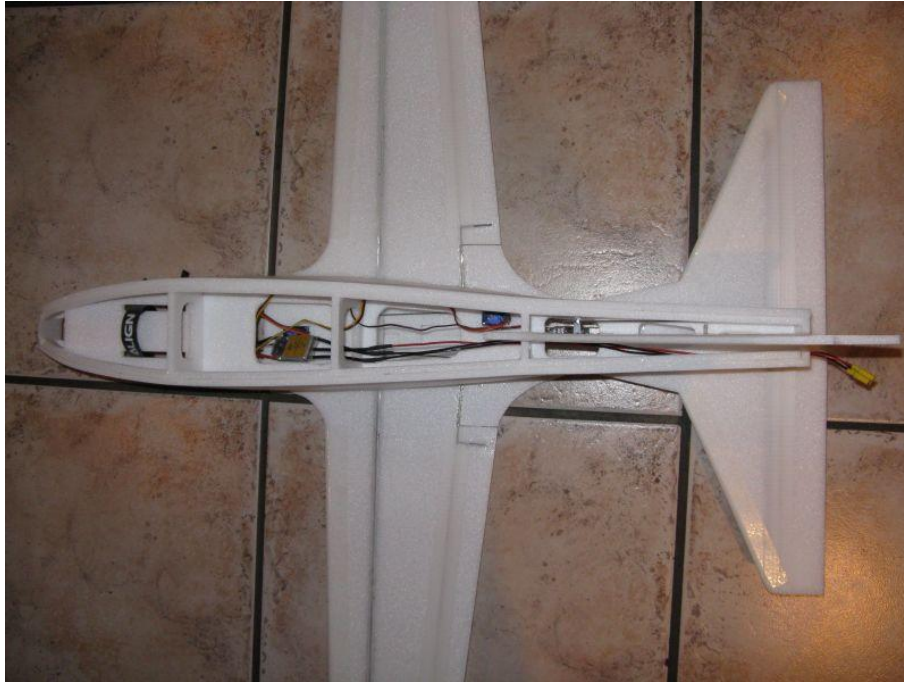




Sand the top and bottom edges of the fuselage flat to prepare for the fuselage top and bottom, then install the vertical fin and ailerons.



Hook up the aileron pushrods to the servo. Glue Velcro for the battery and put in a double sided Velcro battery strap.



Now is a good time to install all the electronics. Extend the esc battery and motor wires (keep the motor side as short as possible). Install servo lead extensions as required.



Glue the fuselage top and bottom in place. These are oversized to allow for some misalignment. Laminate the 8x nosecone pieces and glue in place. Sand the nose and the fuselage corners round.





Make the access hatch to your taste.



Epoxy the ply motor mount to the motor bulkhead and instal the motor with small self tapping screws.



I had some issues with cooling so I added a plastic teaspoon air scoop to the hatch...



And a vent hole to the rear fuselage.



<http://www.rcgroups.com/forums/showatt.php?attachmentid=2873591&d=1258134728>

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