

Extra 330 mini park flyer

Thank you purchasing the BP extra 330 mini park flyer. Please inspect the kit for any damage or missing parts. If you find anything wrong with the kit please contact us immediately before starting the plane and we will resolve the issues. Please read through the instructions completely before starting the kit. It's hard to undo a CA mistake. If you would like a color version of the instruction manual you can download it from our web site BPhobbies.com.

Parts

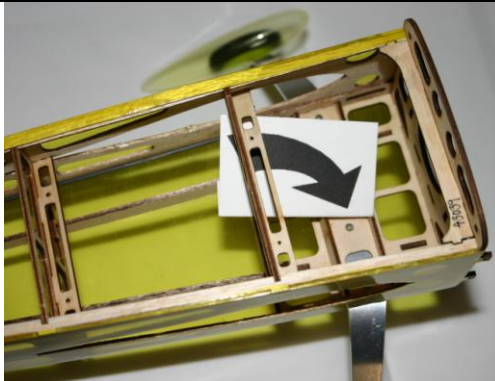

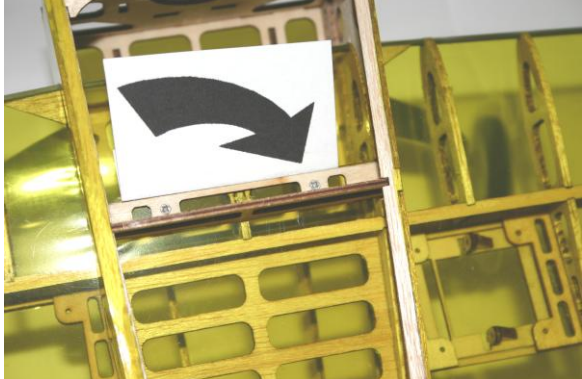


- 1) Fuse with canopy
- 2) Wing
- 3) Horizontal and vertical stab
- 4) 2 – Aluminum landing gear with wheels
- 5) Cowl
- 6) Bag of small parts
- 7) Two long carbon control rods
- 8) One 1/8 plywood firewall
- 9) Instruction Manual
- 10) Supplemental instructions

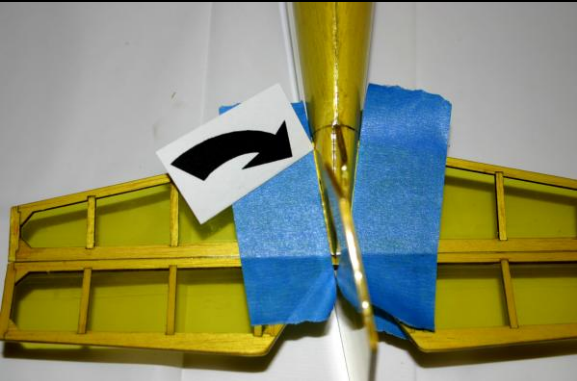







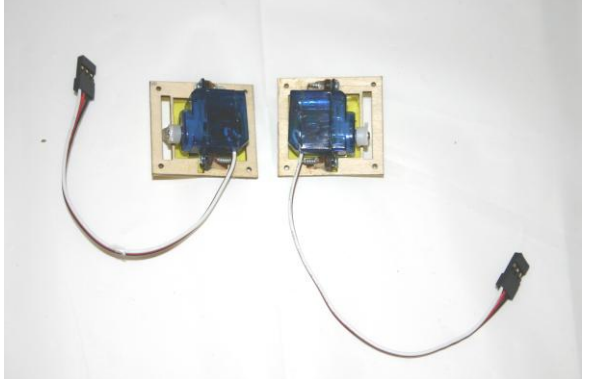

Step 1



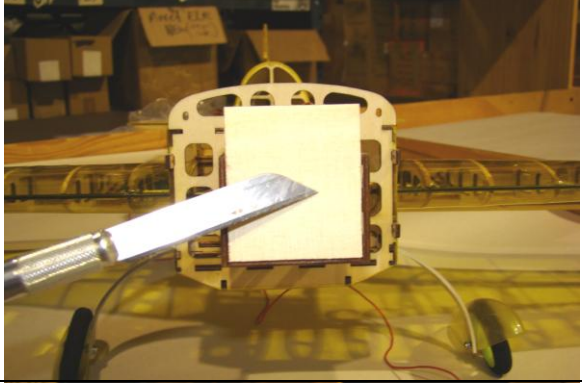
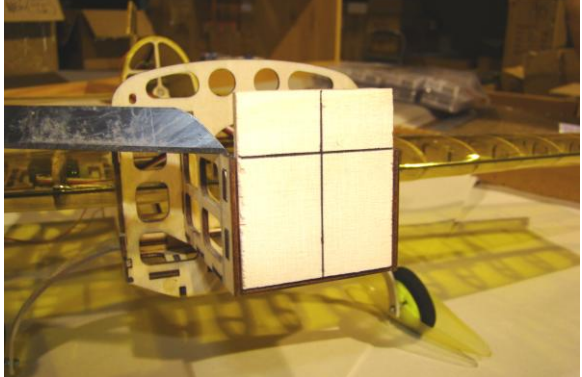
Remove canopy from fuse. Grab the canopy at the rear and pull. The canopy is held on with a magnet.

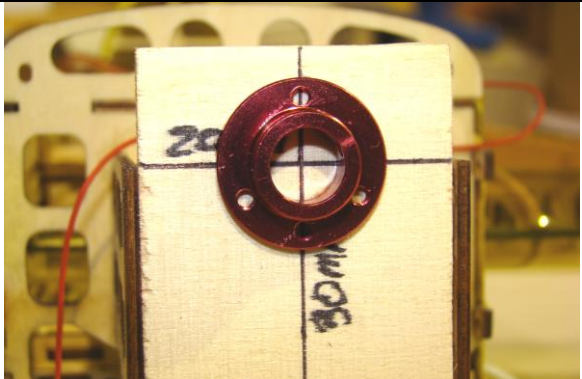
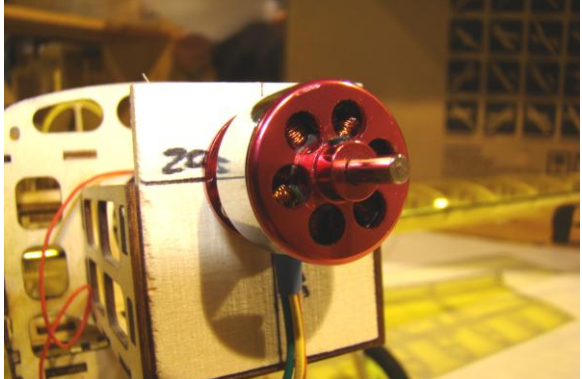
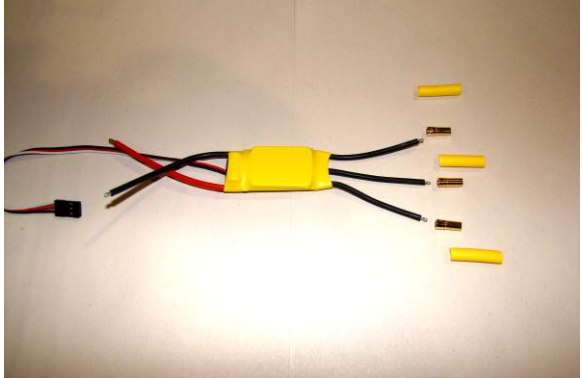
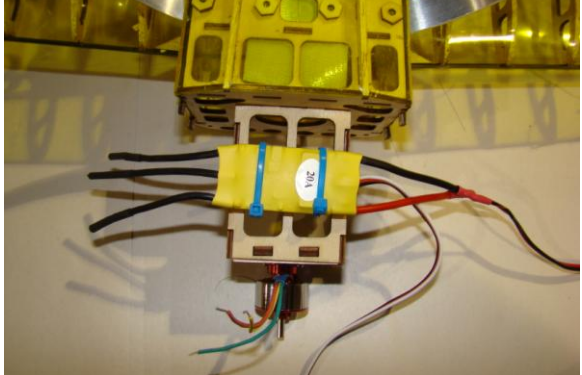


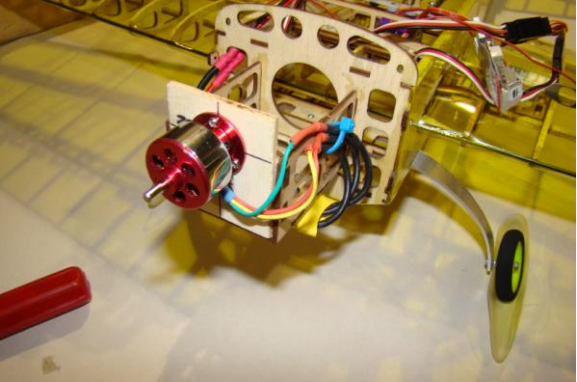

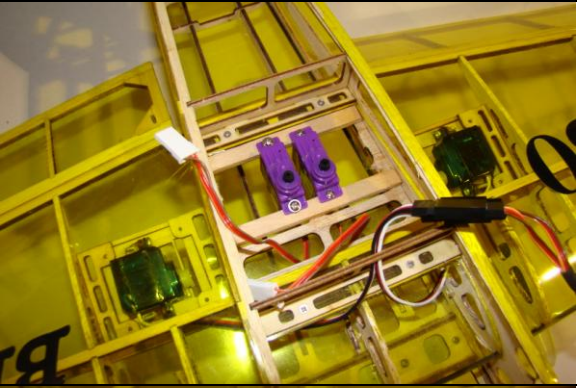
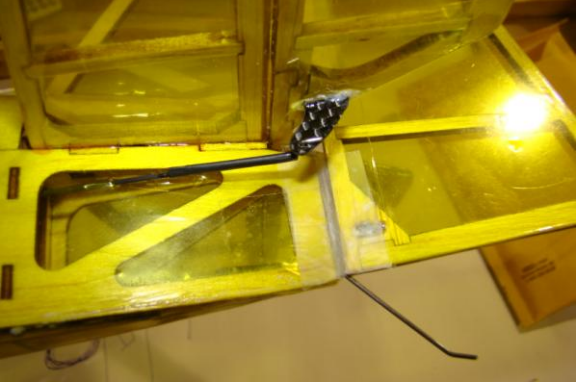
<p>Step 2</p>	<p>Slip the two landing gears into the slot in the bottom of the fuse and secure with four machine screws.</p>	
<p>Step 3</p>	<p>Slip the wing through the fuse with the BP Hobbies facing up. The fit is tight here, so you will need to gently work the wing into the fuse. Remove the aileron servo hatch on the left wing panel before slipping it through.</p>	
<p>Step 4</p>	<p>Use four small wood screws from the parts bag and secure the wing to the fuse.</p>	
<p>Step 5</p>	<p>Attach the loose Aileron to the left wing panel with clear cellophane tape.</p>	
<p>Step 6</p>	<p>Dry fit the horizontal stab and vertical fin to the fuse. The bevel goes down on the horizontal stab.</p>	


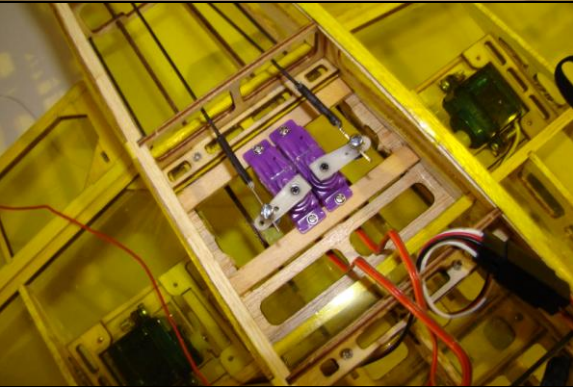
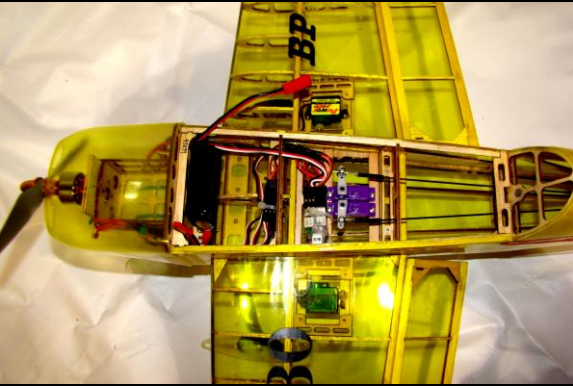
Step 7	Square up the horizontal stab with the wing. Use masking tape to delineate where the stab and fuse meet.	
Step 8	Remove the stab and fin. With a soldering iron or a very sharp knife, come in 1/8" from the edge of the tape and cut the covering here. If you use a knife "DO NOT CUT THE Balsa." This weakens the wood.	
Step 9	Remove the covering in this area.	
Step 10	Remove a small amount of covering from both sides of the vertical fin as shown in the photo.	

<p>Step 11</p>	<p>Using 15 minute epoxy, glue the vertical fin and horizontal stab into the plane. Make sure the horizontal stab is parallel with the wing and the vertical stab is at 90 degrees to the horizontal stab.</p>	
<p>Step 12</p>	<p>Remove the covering in this area so that the wires for the two aileron servos can come through.</p>	
<p>Step 13</p>	<p>Center the servos with the receiver and install the control horns. Don't forget to put the screws in the control horns.</p>	
<p>Step 14</p>	<p>Install the two aileron servos in the wing and the two carbon control horns.</p>	

<p>Step 15</p>	<p>Drill out the carbon control horn a little and install a DuBro mini EZ connector. Using the carbon rod provided make two pushrods for the ailerons. Take two of the Z bend wires and one piece of carbon rod. Slip a piece of heat shrink tubing over both wires and shrink the tubing over both. When done use thin CA and accelerator to secure the pushrods.</p>	
<p>Step 16</p>	<p>Using CA assemble the motor box. Make note that there should be right thrust. One of the motor box sides has small dot toward the front. This is the passenger side.</p>	
<p>Step 17</p>	<p>Using medium CA glue the 1/8 inch thick plywood motor mount on the front of the motor box.</p>	
<p>Step 18</p>	<p>Mark the center of the motor mount vertically. And draw a line horizontally between the top of the two motor box sides.</p>	

<p>Step 19</p>	<p>Remove the mounting plate from the motor and mount it on the firewall so that it is centered on the cross lines.</p>	
<p>Step 20</p>	<p>Solder the bullet connectors on the motor leads. Mount the motor to the mount and tighten the set screws.</p>	
<p>Step 21</p>	<p>Solder the bullet connectors on the speed controller and the appropriate battery connector end.</p>	
<p>Step 22</p>	<p>Install the speed controller on the bottom of the motor box as shown and connect the motor wires so that the motor turns in the correct direction.</p>	

Step 23	Secure the wires to the motor box as shown with zip ties.	
Step 24	With a sharp knife remove the webbing in this area between the wings.	
Step 25	Cut two 1/4 x 1/8 inch hard wood servo mounting rails. Glue them both in using medium CA. Make sure that they are spaced far enough apart for the servos. Screw in the two servos.	
Step 26	Take one of the long pushrods and make a Z bend in it. Put a small drop of CA on the heat shrink and wire to secure the connection. Hook it through the carbon control horn. Cut a small slit in the covering and feed it through the fuse. It goes through the left top hole in the rear former. Using thin Ca glue the carbon control horn into the elevator.	

Step 27	Follow the same procedure for the rudder. The pushrod goes through the bottom hole in the rear former.	
Step 28	Install an EZ connector in each servo control horn. Cut the pushrods to length and complete the ends using the Z bends, heat shrink tubing and thin CA glue. Cut the Z bend off so you end up with a straight wire. Put the wire through the EZ connector and tighten the screws on the connectors.	
Step 29	Install the cowl using the 4 screws provided. Use some clear cellophane tape to hold it in place while you are positioning it. On our model putting the receiver and battery in the positions shown just made the plane slightly nose heavy. This is ok for the first flight.	
Step 30	The Center of gravity for the airplane is on the wing spar at the fuselage.	
Step 31	The initial control surface throws are as follows for the maiden flight. After trimming and the first flight you can always increase the throws to your flying style. Remember this is a small aerobatic plane, highly maneuverable. Set the initial throws to the following for the first flight. Aileron 1/2 inch up and down Elevator 1/2 inch up and down Rudder 1.5 inches left and right	
Step 32	Have Fun!	