

Wilson Wing Assembly

- 1) Lay the kite sail out flat with the front side up. The front side has a bridle attachment and a horizontal ferrule attached to the center spine.

- 2) Locate the four sections of the cross-spar. Two have ferrules and rubber stoppers attached. These are the inside spar sections. The two without ferrules are the outside spar sections.



Assemble and attach the spars (Steps 3 & 4) for one side of the kite at a time.

- 3) Connect the lines on the fuselage body to the inside spar (inside spars are ferruled and have a rubber stopper attached). Create a larkshead loop in the end of the loose body line of the kite. Connect this loop around the spar section between the rubber stopper and ferrule.
- 4) Assemble and attach the spars. Connect the open end of the inside spar (sail line attached already by larkshead in Step 3) to the ferrule attached at the center spine of the kite. Connect the inside and outside spar sections. Then carefully bend the assembled spar sections until you can insert the end into the spar cap at the outside edge of the wing.
- 5) Assemble tail section by attaching tail spar. Make sure all tension lines are tangle-free. Slide the spar through the hole in the tail keel. (This may be a tight fit the first time assembled.) Carefully bed the spar until you can insert the ends into the spar caps at the outside edge of the tail.
- 6) Adjust tension lines. There are three lines connected to the tail section. One is used to create a slight vertical arch in the center spine. The other two adjust the position of the wing relative to the fuselage. It is important to balance line tensioning on both sides of the kite. For test flying, set the lines so they are snug and then fine tune later.
- 7) Adjust the body lines to the cross spars using the rubber stopper. (Lines were attached to the spar with a larkhead in Step 3.) The stopper should be between the knot and the body of the kite. To adjust the fuselage, slide the stoppers away from the body until lines are snug.
- 8) Attach your flying line to the main bridle.



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