

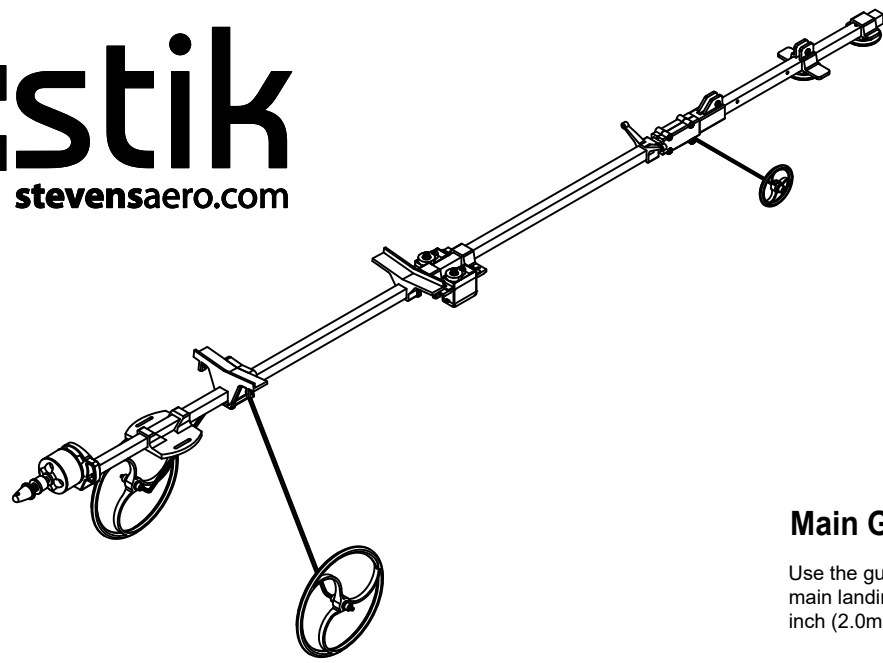
Sportstik

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Hardware List

- 1 - 8mm Square Carbon Fiber Tube x 590mm
- 1 - 8mm Square Carbon Fiber Tube x 202mm
- 1 - Landing Gear Wire, 0.078 inch x 18 inches
- 1 - Tail Gear Wire, 0.063 inch x 6 inches.
- 1 - Velcro Strap [5002]
- 1 - Velcro Patch (adhesive backed)
- 1 - #2 x 1/4 inch Sheet Metal Screw [3010]
- 2 - 2-56 x 3/16 inch Machine Screw [6001]
- 2 - 2-56 x 3/8 inch Machine Screw [6003]
- 3 - #2 x 7/16 inch Sheet Metal Screw [3013]
- 4 - 2-56 x 7/16 inch Machine Screw [6004]
- 4 - 2-56 Hex Nut [3014]



Fuselage Profile View (drawn to 40% scale)

Mount the motor to the motor mount (1) using machine screws provided by the motor vendor provided for the stock "X" plate install.

Drill a hole through the motor mount and into the fuselage tube, to install the provided #2 x 1/4 inch sheet metal screw - retaining the motor to the fuselage tube.

Use the provided #2 x 7/16 inch sheet metal screws, to retain the Landing Gear Bracket (3b) to the Forward Wing Mount (2a), capturing the landing gear wire between 3a and 3b.

Servos are to be mounted using hardware supplied by the servo manufacturer.

Joining the Fuselage Parts

Join the left and right sides of the Fuselage Joiner Bracket (7), using the supplied 2-56 x 7/16 inch machine screws. The tail gear wire is retained within the slot between the two halves of the Fuselage Joiner (7). With the joiner hardware, slip the front (590mm) and back (202mm) sections of the 8mm square carbon fiber tube within joiner, then tighten hardware to retain.

Vertical Stabilizer Mounting

Place Vertical Fin within the slotted area of parts 8a/8b and retain using two 2-56 x 3/8 inch machine screws and hex nuts (Screws are to be inserted through left side of fuselage, as shown - nuts are placed in the hex shaped pockets on the opposite side of parts 8a and 8b). **Note: 8a and 8b support a Vertical Fin Thickness of 1/8 inch (3.2mm)**

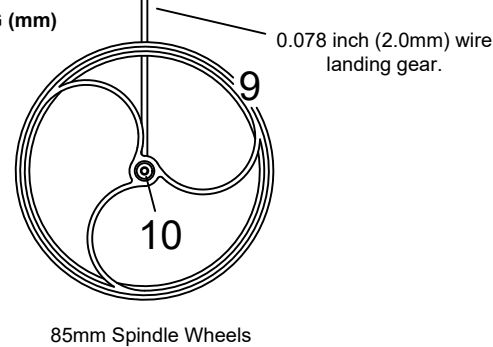
Plastic Parts Identification

Note: The spacing distances, listed below, are to be measured from the forward edge of the 8mm square carbon fiber fuselage, to the forward most edge of the component.

ID	DESCRIPTION	SPACING (mm)
1	Motor Mount for BL-400 Motor (w/grey fuselage plug)	0
2	Battery Tray	65
3a	Forward Wing Mount (12 degrees of total dihedral)	145
3b	Landing Gear Bracket	-
4	Rear Wing Mount (12 degrees of total dihedral)	325
5	Servo Mount for HD-1900A Servos	345
6	Push-Rod Guide	560
7	Fuselage Joiner Tail Gear Mount	-
8a	Forward Vertical Fin Mount	615
8b	Rear Vertical Fin Mount / Forward Horizontal Fin Mount	720
8c	Rear Horizontal Fin Mount	780
8d	Horizontal Fin Mounting Washers	-
9	85mm Spindle Wheels (right and left)	-
10	0.078 inch (2.0mm) Press-fit Wheel Collar (4)	-
11	32mm Spindle Wheel (1)	-
12	0.063 inch (1.8mm) Press-fit Wheel Collar (4)	-

Wing Mounting

The wing is to be retained to the wing mounts, using #32 rubber bands (3 inch x 1/8 inch), two per side.



Basic Fuselage Assembly Guidance

Prior to assembly, clean the mold release residue from the 8mm square carbon fiber fuselage tube, using 99% isopropyl alcohol.

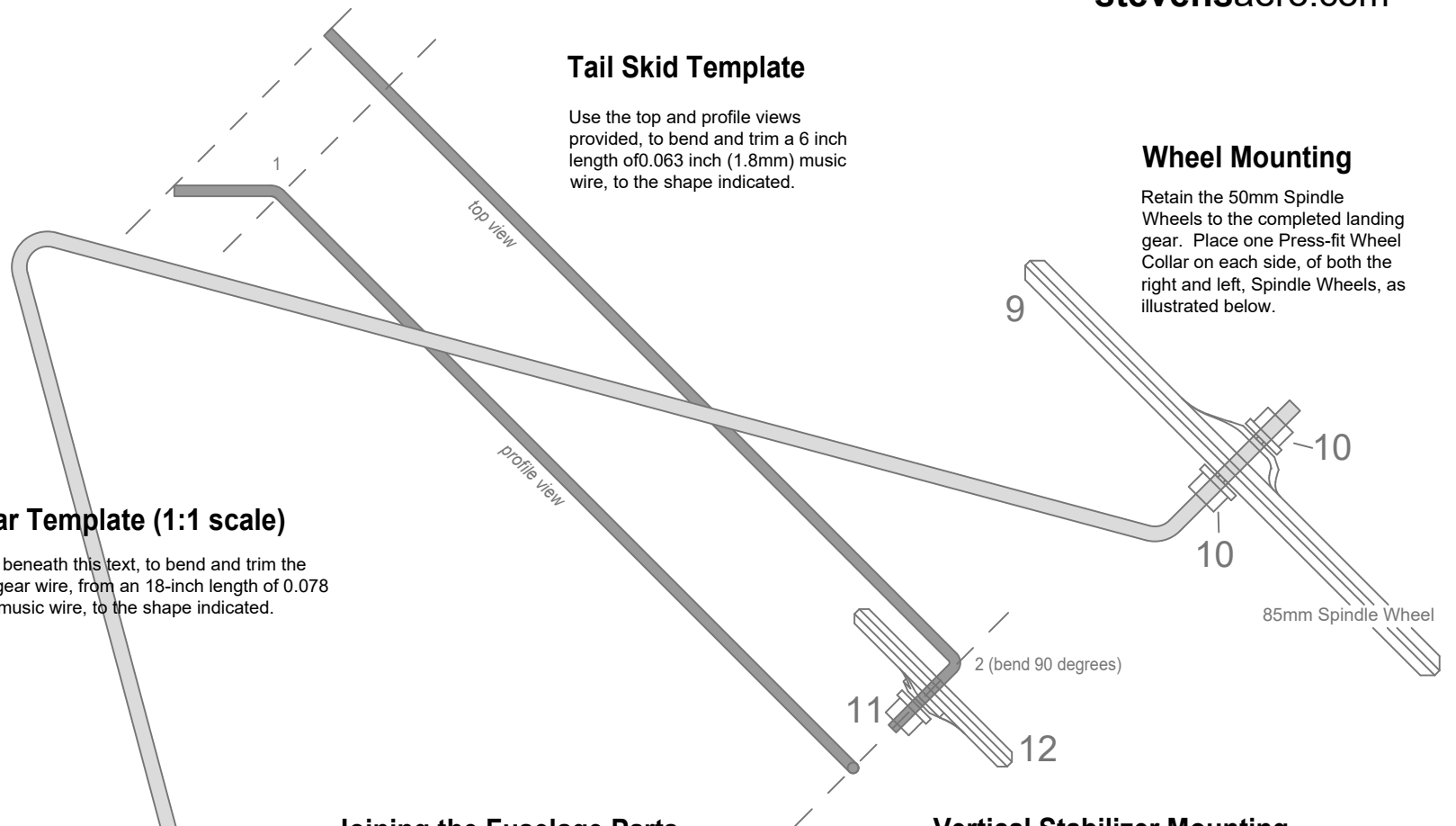
While most parts have a good friction fit to the 8mm fuselage tube. We suggest that the motor mount be retained using a #2 x 1/4 inch sheet metal screw.

The wing, servo, battery and fin components layout are all subject to the builders discretion and/or the direction of the working plans. Once a suitable component arrangement has been achieved, these plastic parts may also be *lightly* retained to the fuselage. Use a toothpick to place a small drop of thick CA glue, E6000, white PVA, or epoxy at the leading edge of the plastic parts to retain.

Note: Do not use thin CA glue to retain the parts (especially the motor mount) as this tends to create hardened areas, that produce failure points along the carbon fiber fuselage. And makes it difficult to repair crash damage.

Tail Skid Template

Use the top and profile views provided, to bend and trim a 6 inch length of 0.063 inch (1.8mm) music wire, to the shape indicated.



Main Gear Template (1:1 scale)

Use the guide beneath this text, to bend and trim the main landing gear wire, from an 18-inch length of 0.078 inch (2.0mm) music wire, to the shape indicated.

Wheel Mounting

Retain the 50mm Spindle Wheels to the completed landing gear. Place one Press-fit Wheel Collar on each side, of both the right and left, Spindle Wheels, as illustrated below.

85mm Spindle Wheel

Joining the Fuselage Parts

Join the left and right sides of the Fuselage Joiner Bracket (7), using the supplied 2-56 x 7/16 inch machine screws. The tail gear wire is retained within the slot between the two halves of the Fuselage Joiner (7). With the joiner hardware, slip the front (590mm) and back (202mm) sections of the 8mm square carbon fiber tube within joiner, then tighten hardware to retain.

Vertical Stabilizer Mounting

Place Vertical Fin within the slotted area of parts 8a/8b and retain using two 2-56 x 3/8 inch machine screws and hex nuts (Screws are to be inserted through left side of fuselage, as shown - nuts are placed in the hex shaped pockets on the opposite side of parts 8a and 8b). **Note: 8a and 8b support a Vertical Fin Thickness of 1/8 inch (3.2mm)**

Horizontal Stabilizer Mounting

The Horizontal Stabilizer should have two 12mm square holes, cut within the center section of the horizontal fin (*spaced per your wing kit plans*), to fit over the square mounting posts, molded into the bottom of parts 8b and 8c (see cut guide below). Place the horizontal fin over the square mounting posts and retain using washers 8d and two 2-56 x 3/16 inch machine screws and hex nuts (nuts to be embedded within inside bottom section of 8b and 8c). These parts support a fin thickness of no more than 1/8 inch (3.2mm).

Note: Use of longer hardware will require a clearance hole to be drilled into the 8mm square carbon fiber tube.

Cut Template

