

The diagram illustrates the assembly of a wing structure. It features a main upper wing section and a lower section. A horizontal line represents the wing's leading edge. A vertical rectangular block, labeled as 'Strut reinforcement', is positioned to fit into a 'key' on the upper wing section. Below this, a 'KF step panel' is shown being installed 'UNDER the wing'. The panel has a small rectangular tab that fits into a corresponding slot on the lower wing section. Three circular holes are marked: one in the strut reinforcement block, one in the KF step panel, and one in the lower wing section, labeled as 'Strut holes for the Upper Wing'. The text 'reinforcement tabs on' is partially visible at the bottom right.

Strut reinforcement
blocks key into the KF
panel.

KF step panel installs
UNDER the wing.

Strut holes for the Upper Wing
in the KF step and the s
reinforcement tabs on



Upper Wing

The four inner cabane struts are fitted after the outer struts are in place. They should fit between the holes in the side of the outer fuselage panels and the holes in the underside of the upper wing. Cut from 10" bamboo skewer material.

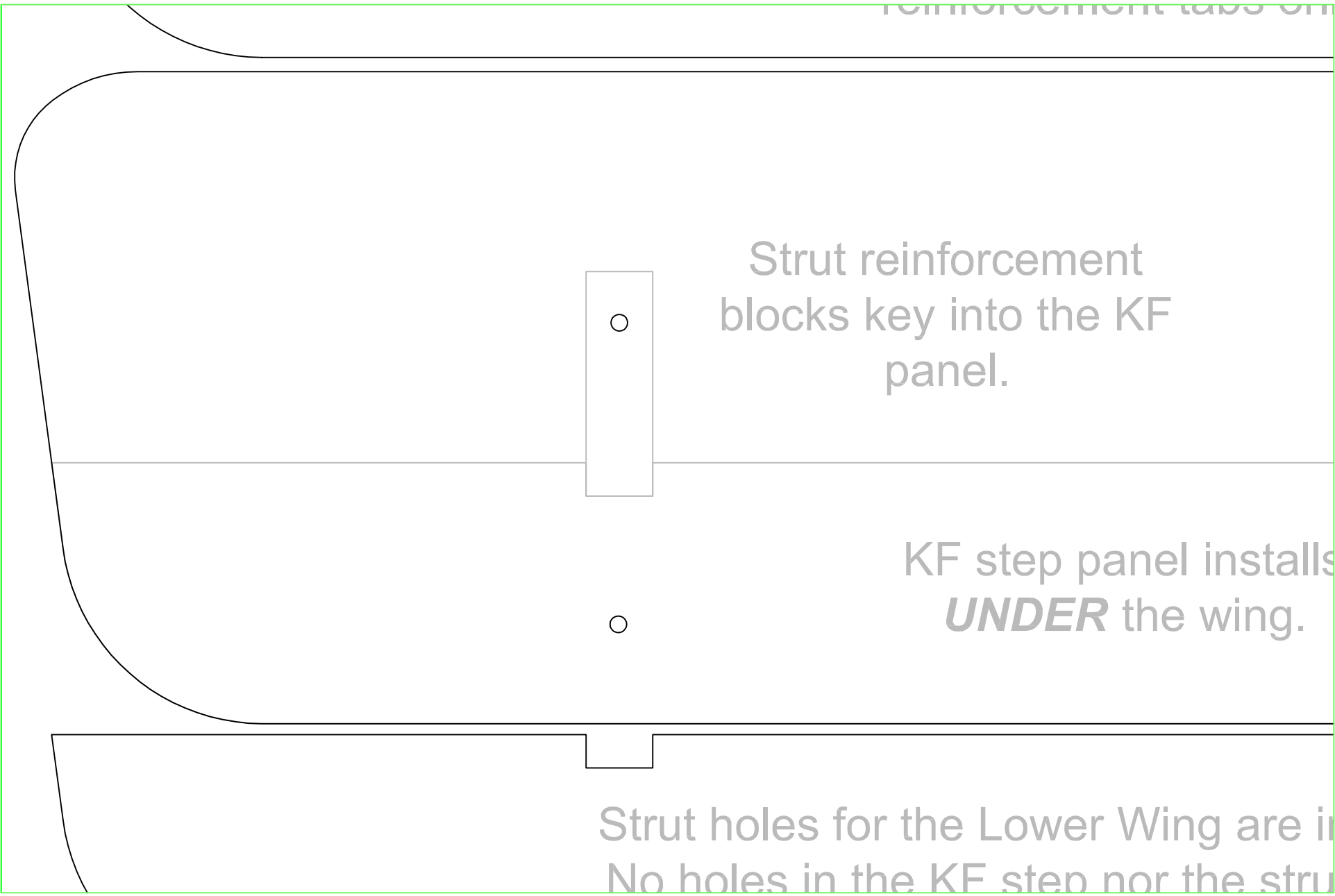
Upper Kl

Center of Gravity

The plane should balance at the leading edge of the lower wing.



REINFORCEMENT TABS ON



The diagram shows a cross-section of a wing structure. A horizontal line represents the wing's upper surface. Below it, a vertical rectangular block is shown, representing a strut reinforcement. To the right of this block, text explains its function. Below the block, another horizontal line represents the wing's lower surface, which has a small rectangular notch. To the right of this notch, text explains the installation of a KF step panel. At the bottom, text discusses strut holes for the lower wing and the placement of the KF step and strut.

Strut reinforcement
blocks key into the KF
panel.

KF step panel installs
UNDER the wing.

Strut holes for the Lower Wing are in
No holes in the KF step nor the strut

Lower Wing

Setting proper dihedral:

With one wing panel and/or KF step flat on a level surface. Raise the other tip 2.75". This should be a 6 degrees of dihedral (6 per wing).

With the KF panels installed, I doubt any step is needed. If you opt to build without the KF panels, a step is most likely be needed.

Lower KF

in your workspace.
a total of 12

spar will be
panels. A spar will



taps for the lower wing

VLF SE5a

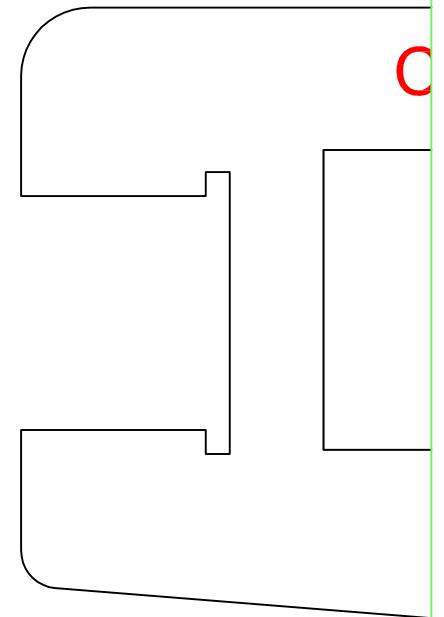
Designed by: Haiduk on RCGroups

Version: 1.03 Feb. 13, 2011

Wing Area: 262 sq.inches.

Wing Span: 27.5 inches.

All materials are
Protection Board III Fan Fold Foam
unless otherwise specified.



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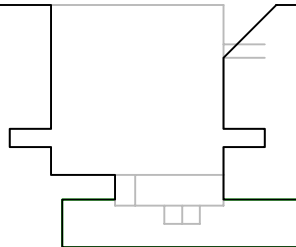
Cut four outer struts
from 10" bamboo
skewer material 5.35"
long

Center Fuselage Lamination

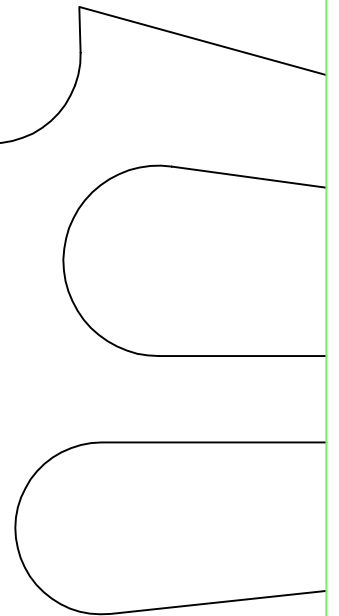
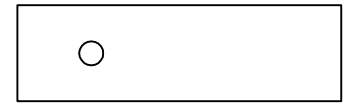
Battery



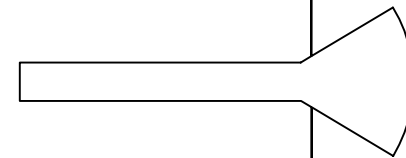
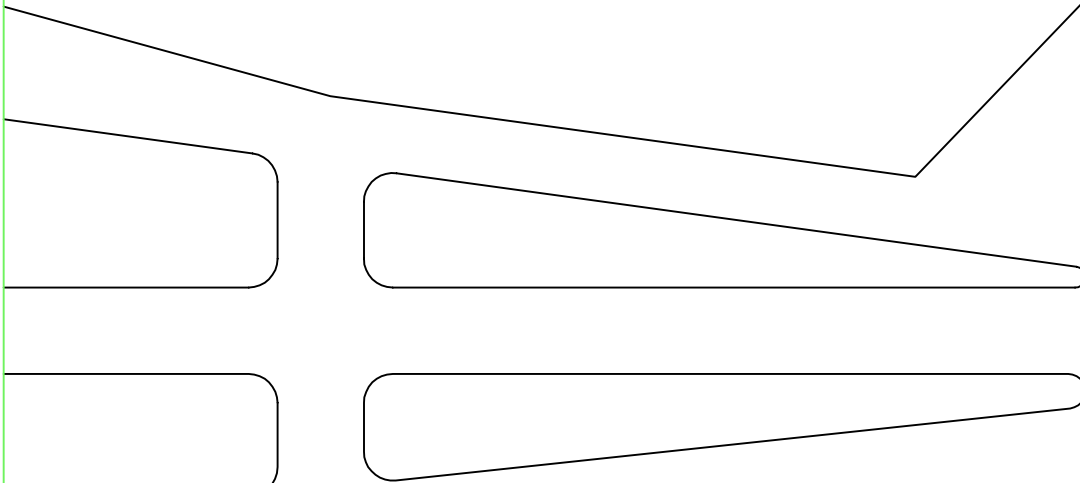
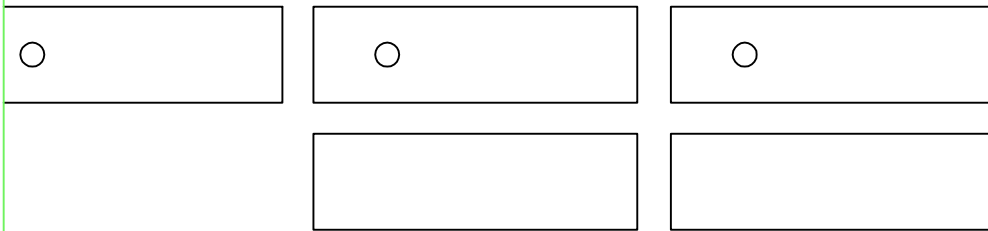
ESC



Rx

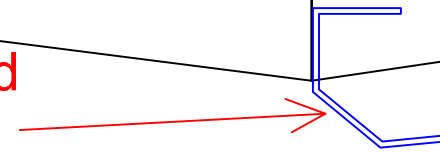


Strut Reinforcement tabs.
Cut four upper and two lower.



Optional Steerable Tail Skid

Bend from $\frac{1}{16}$ " music wire.



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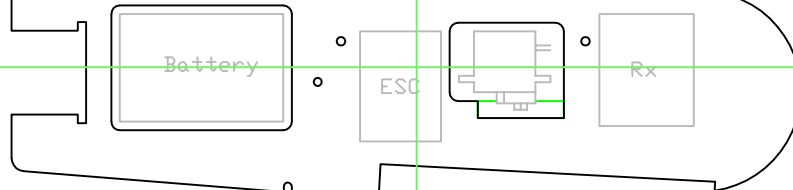
Landing Gear

Bend from $\frac{1}{16}$ " music wire. To install. Set a length of the bamboo skewer through the fuselage through the hole between the battery and the ESC bays. It should extend out beyond the sides of the fuselage a good half inch. The landing gear is set into the notch at the base of the fuselage just ahead of the leading edge of the lower wing. Use rubber bands to attach to the skewer at the top.

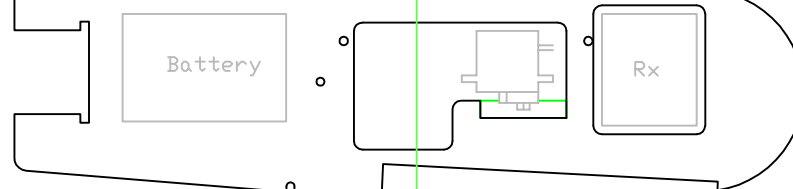
Wing Alignment Jig

This jig sets the proper alignment of the upper wing. It can also be used as a dihedral jig. It should be placed just inside the strut reinforcement tabs with the lower wing installed on the fuselage. Should be 6 degrees of dihedral per wing. Temporarily hold in place with rubber bands over the upper wing and under the lower wing while installing the struts.

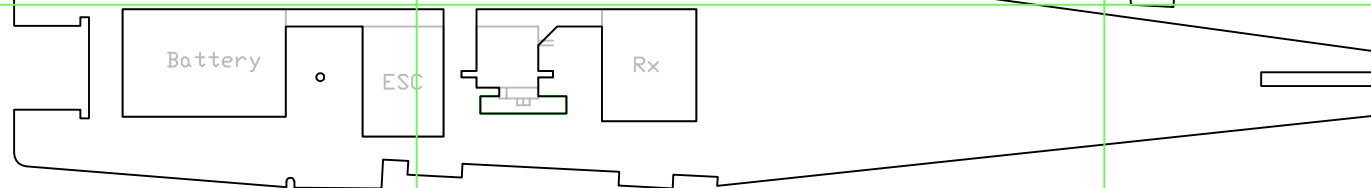
Left Outer Fuselage Lamination



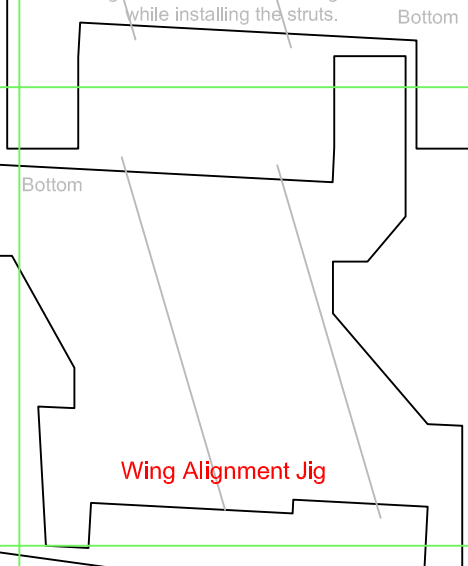
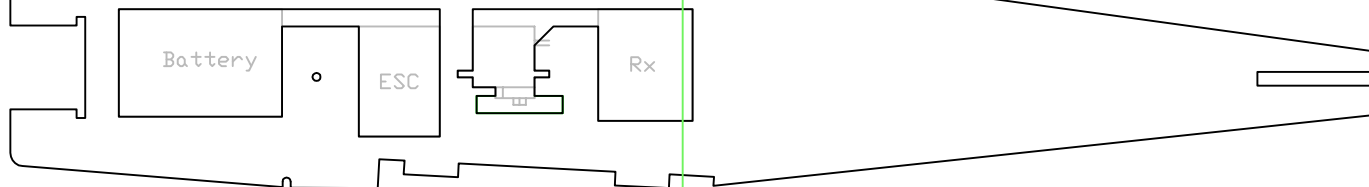
Right Outer Fuselage Lamination



Intermediate Fuselage Lamination



Intermediate Fuselage Lamination



ESC and Servo
Cover

Servo
Cover

Battery Cover

Receiver
Cover

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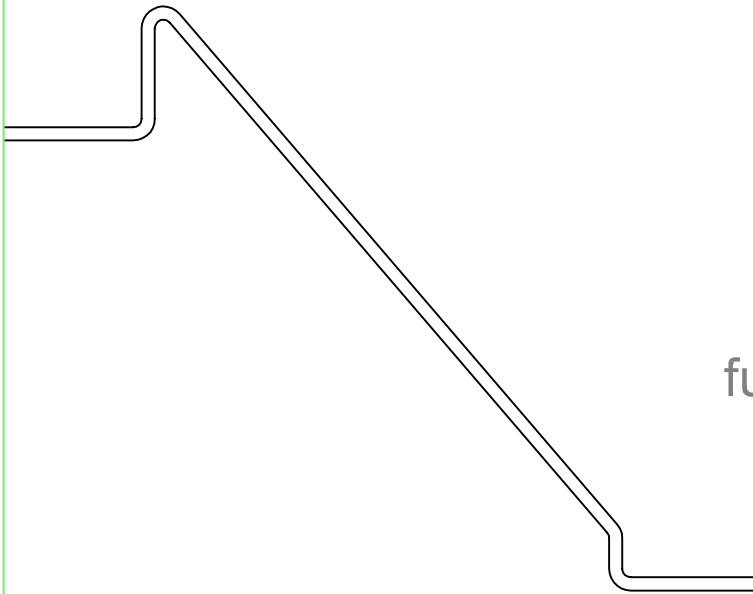
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Left Outer Fuselage Lamination

Battery

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Bottom

