

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 strut
reinforcement tabs only.



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 KF

Lower Wing

Center of Gravity

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

VLF S

Designed by
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Protection
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SE5a

Source: Haiduk on RCGroups
Version: 1.02 Feb. 9, 2011
Wing Area: 262 sq.inches.
Wing Span: 27.5 inches.

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

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

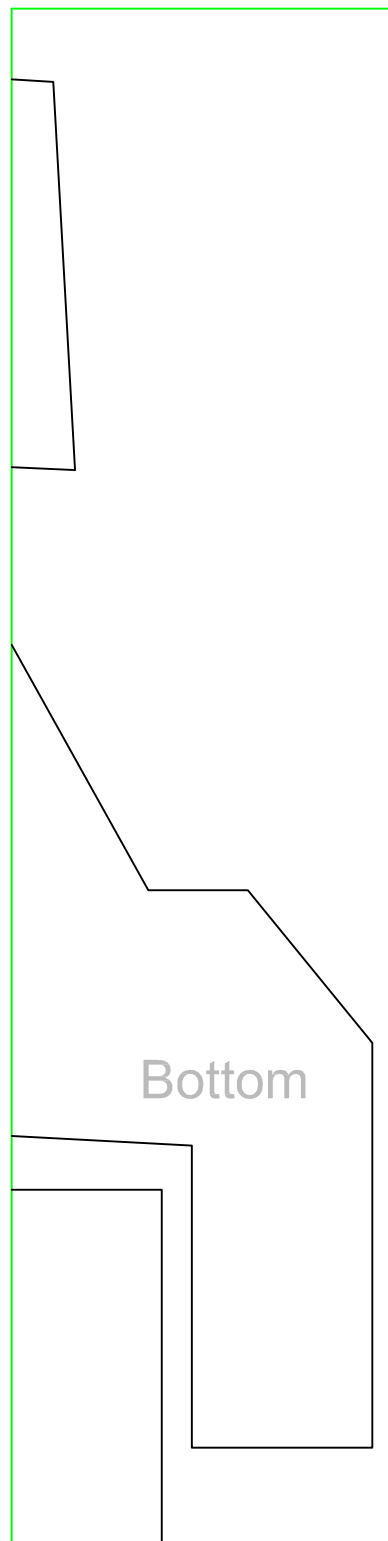
Wing Alignment Jig

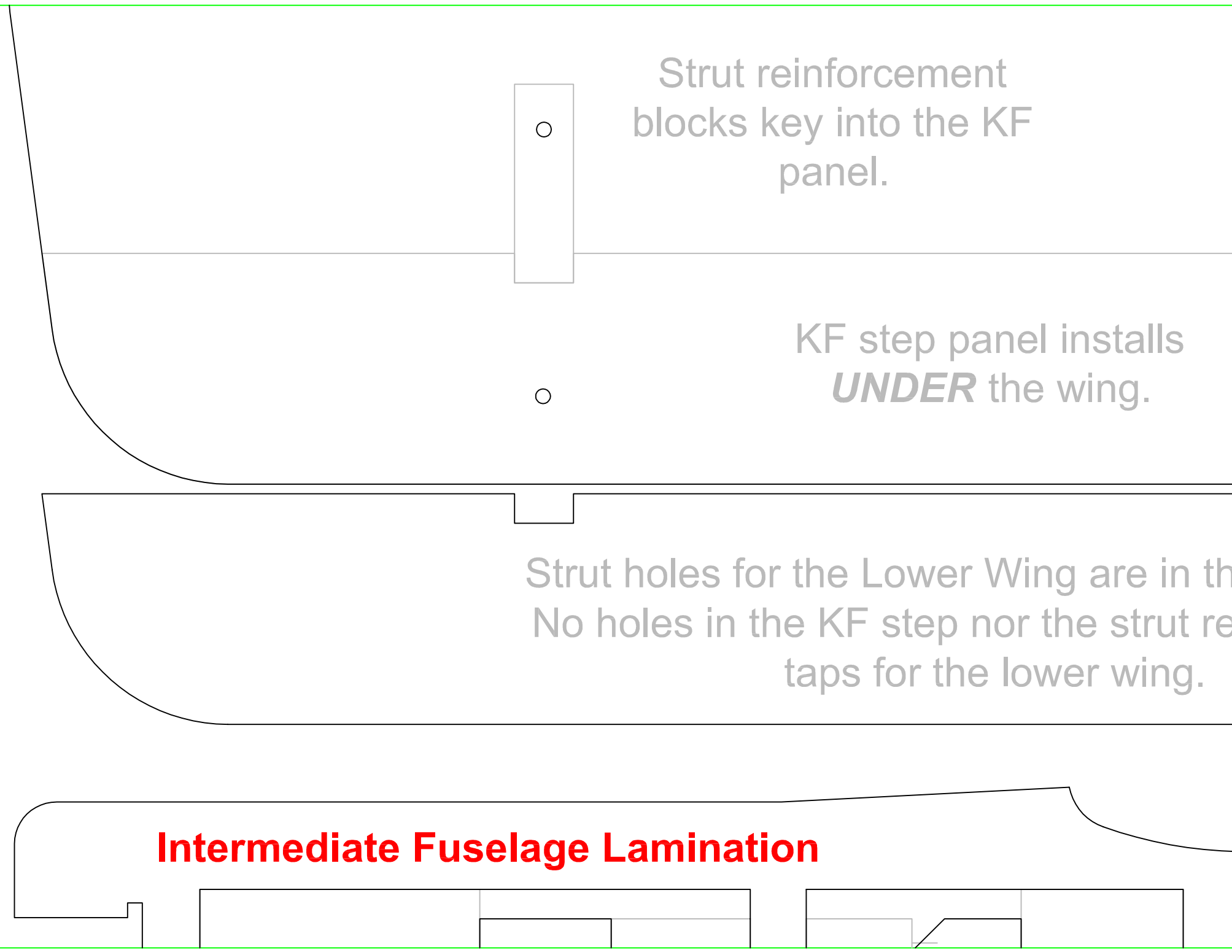
This jig sets the proper alignment of the upper wing. It can also be used as a dihedral jig. It should be placed just inside the strut reinforcement tabs with the lower wing installed on the fuselage. Should be 6 degrees of dihedral per wing. Temporarily hold in place with rubber bands over the upper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

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

Bottom





The diagram illustrates the assembly of a wing structure. It shows a cross-section of a wing with a curved upper surface and a flat lower surface. A horizontal line represents the wing's midline. Above this line, a vertical rectangular block labeled 'Strut reinforcement' is shown with a small circle indicating a hole. Below the line, a horizontal rectangular block labeled 'KF step panel' is shown with a small circle indicating a hole. The text 'Strut reinforcement blocks key into the KF panel.' is positioned to the right of the strut block. The text 'KF step panel installs **UNDER** the wing.' is positioned to the right of the KF panel block. Below the KF panel, another horizontal line is shown, and below that, a series of rectangular blocks representing the 'Intermediate Fuselage Lamination' are shown. The text 'Strut holes for the Lower Wing are in the' and 'No holes in the KF step nor the strut re' are positioned to the right of the lower wing section. The text 'taps for the lower wing.' is positioned to the right of the lower wing section.

Strut reinforcement
blocks key into the KF
panel.

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Strut holes for the Lower Wing are in the
No holes in the KF step nor the strut re
taps for the lower wing.

Intermediate Fuselage Lamination



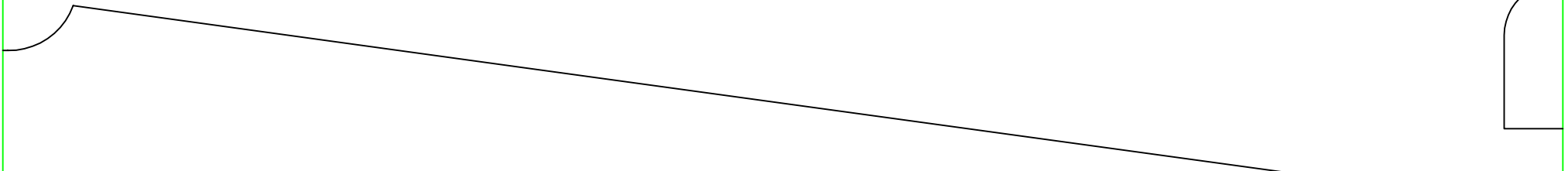
Setting proper dihedral:

With one wing panel and/or KF step flat on your work surface, raise the other tip 2.75". This should be a total of 11.5 degrees of dihedral (6 per wing).

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

the wing itself.
reinforcement

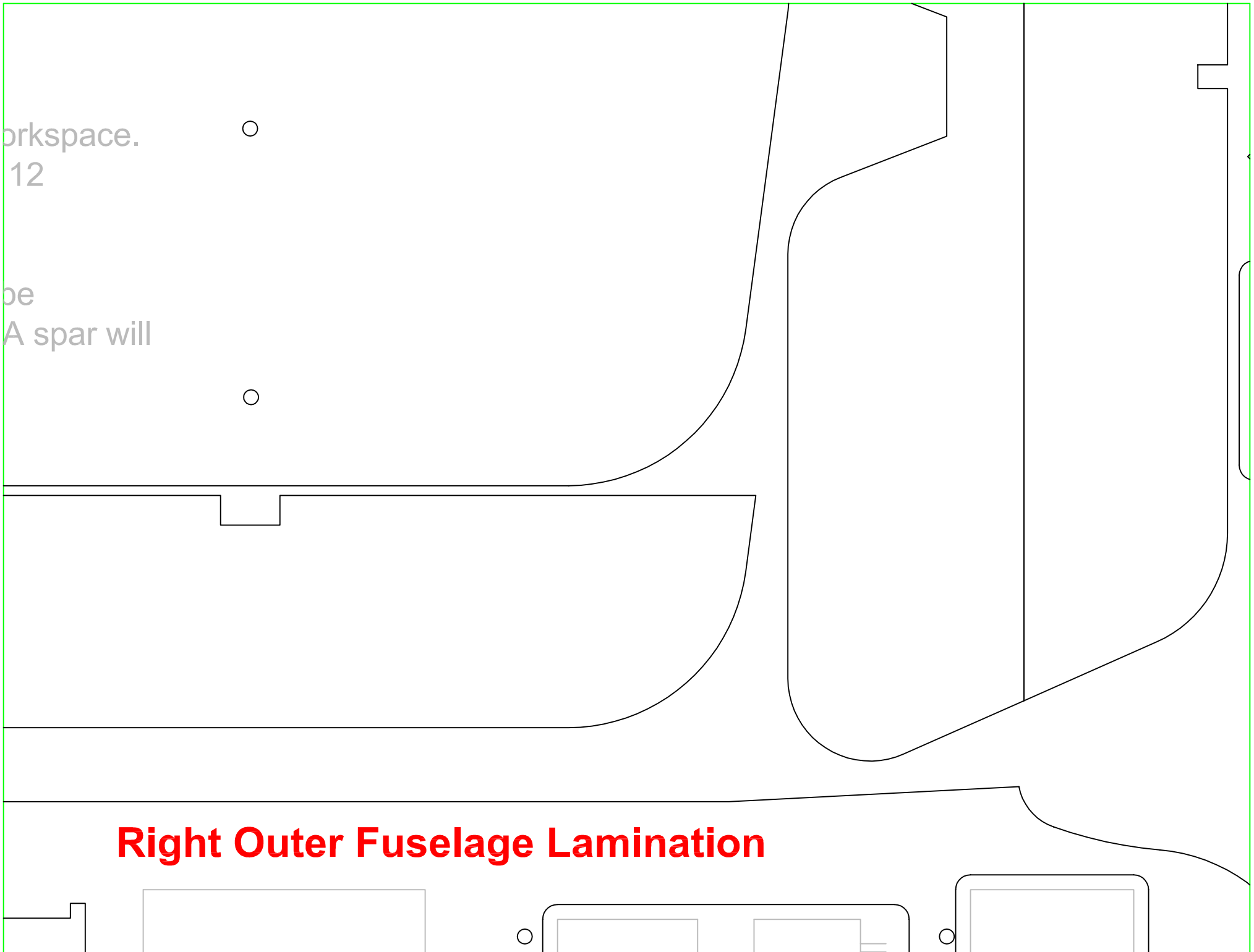
Lower KF



orkspace.
12

oe
A spar will

Right Outer Fuselage Lamination



luggage a good hair iron. 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.

ESC and Servo Cover

Servo Cover

Battery Cover

Receiver Cover

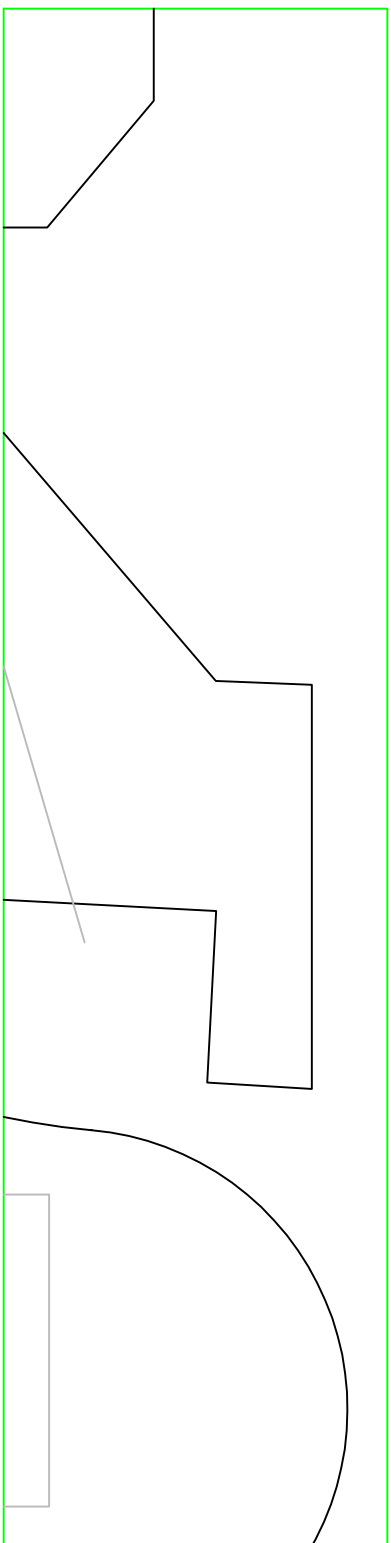
Wing Alignment Jig

Left Outer Fuselage Lamination

Battery

ESC

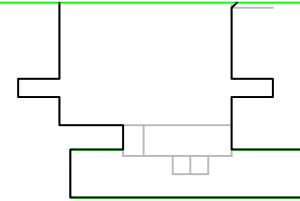
Rx



Battery



ESC



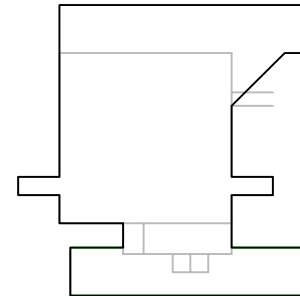
Rx

Intermediate Fuselage Lamination

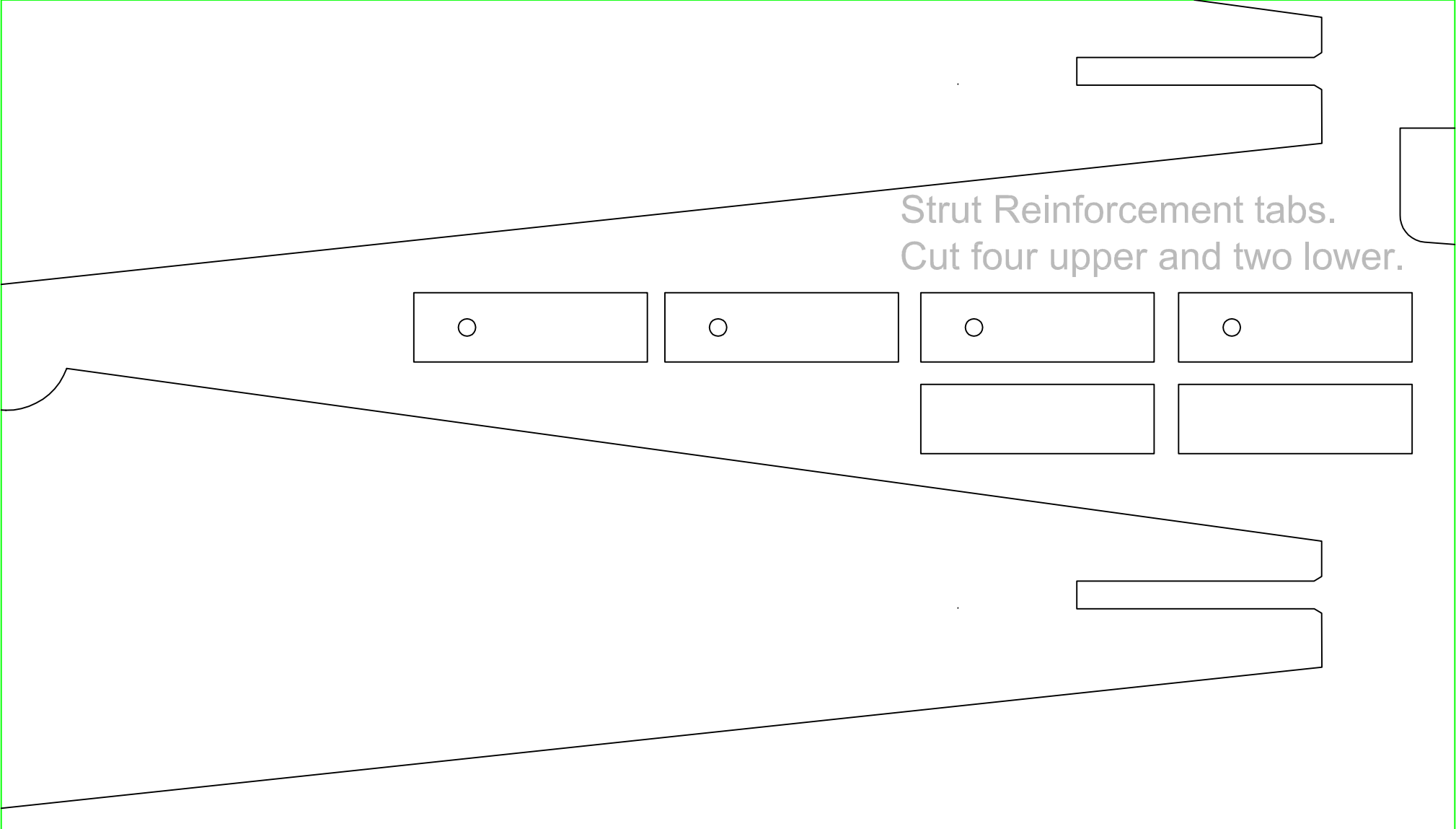
Battery



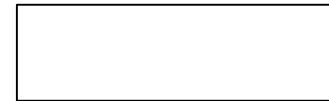
ESC



Rx



Strut Reinforcement tabs.
Cut four upper and two lower.



Battery



ESC

Rx

Center Fuselage Lamination

Battery



ESC

Rx

Motor Mount

Laminate cross grain
from $\frac{1}{16}$ " aircraft ply

Optional Steerable Tail Skid

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

