CorroWot Version 2

A smooth flying sport design made from Corro

CorroWot is a good natured general sport model that would make a great second model after your basic trainer, despite its easy handling it is capable of most aerobatics. Although CorroWot is simple to make it is not reccomended for the Begginner in SPAD construction, for help building SPAD's Visit www.spadtothebone.com & www.spadworld.net

Dimensions	
Wingspan	48"
Engine size	.46 - .53
Dry Weight	5lb 3ozs
Wing Loading	21 oz/sq ft

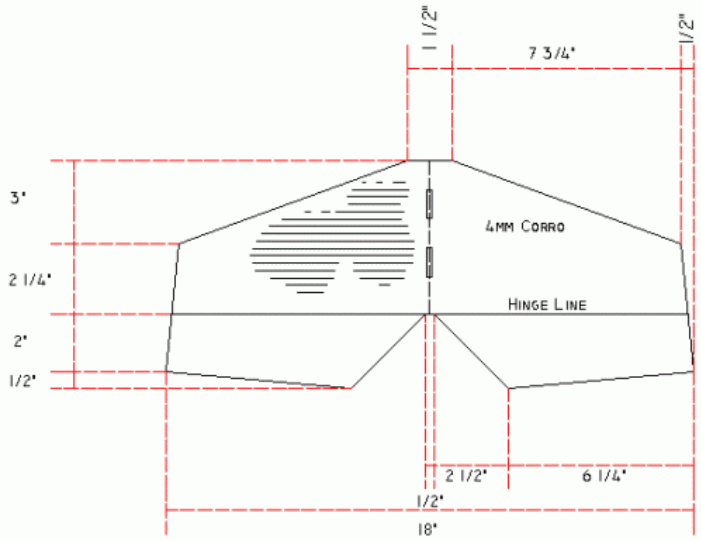
Possible Modifications

Wingspan increase from 48" to 54" to lower wing loading, 54" wing with tapered chord and spar, wider wing with Dihederal to make it fly more like a trainer.

Disclaimer

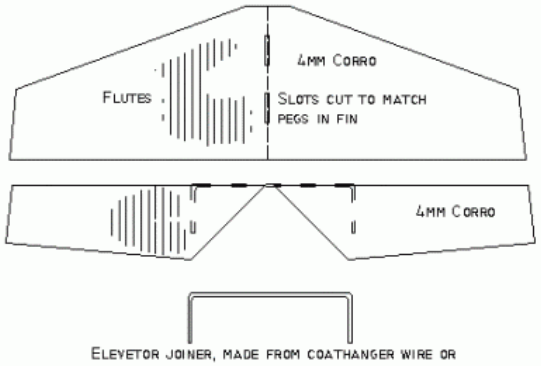
Model airplanes can be very dangerous and can cause damage to property, person, injury and even death. You must accept full responsibility for any damage or injury's incurred while proccuring materials, building and flying. This plan is free, and provided as a guideline, with no obligations. Follow all RC flying rules of your country

For pictures, video and build instructions visit www.avoidingtheground.com



TAILPLANE DOUBLER

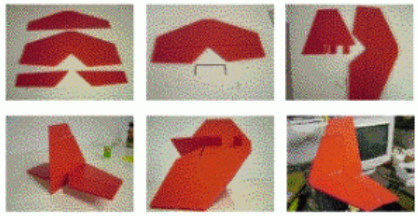
FLUTES AT 90 DEGREES TO TAILPLANE, ALLOW FOR WIDTH OF HINGE FLUTE WHEN CUTTING, CA TAILPLANE AND DOUBLER TOGETHER AS SHOW IN DETAIL.

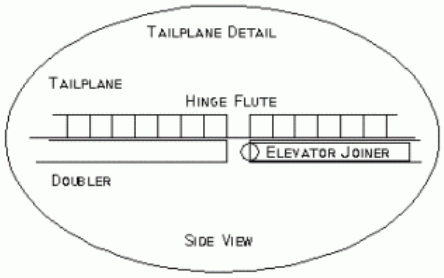


ELEVETOR JOINER, MADE FROM COATHANGER WIRE OR SIMILAR.
GLUE INTO ELEVATOR FLUTES AFTER TAILPLANE AND DOUBLER HAVE BEEN JOINED TOGETHER. DOTTED LINE SHOWS APPROXIMATE POSITION, YOU WILL HAVE TO 'V' OUT THE FLUTES TO GET THE JOINER NICE AND FLUSH

WEIGHT SAVING

IF YOU ARE KEEN TO SAVE WEIGHT THEN YOU COULD PROBABLY GET AWAY WITH A SINGLE LAYER OF CORRO FOR THE TAILPLANE, YOU MAY NEED TO REINFORCE THE TAIL WITH BBQ SKEWERS. I PREFER TO USE THIS DOUBLE LAYERED METHOD, IT IS STILL RELATIVELY LIGHT AND IS VERY STRONG WHEN FINISHED





CORROWOT TAILPLANE. DRAWING V2.1

04/05/2005

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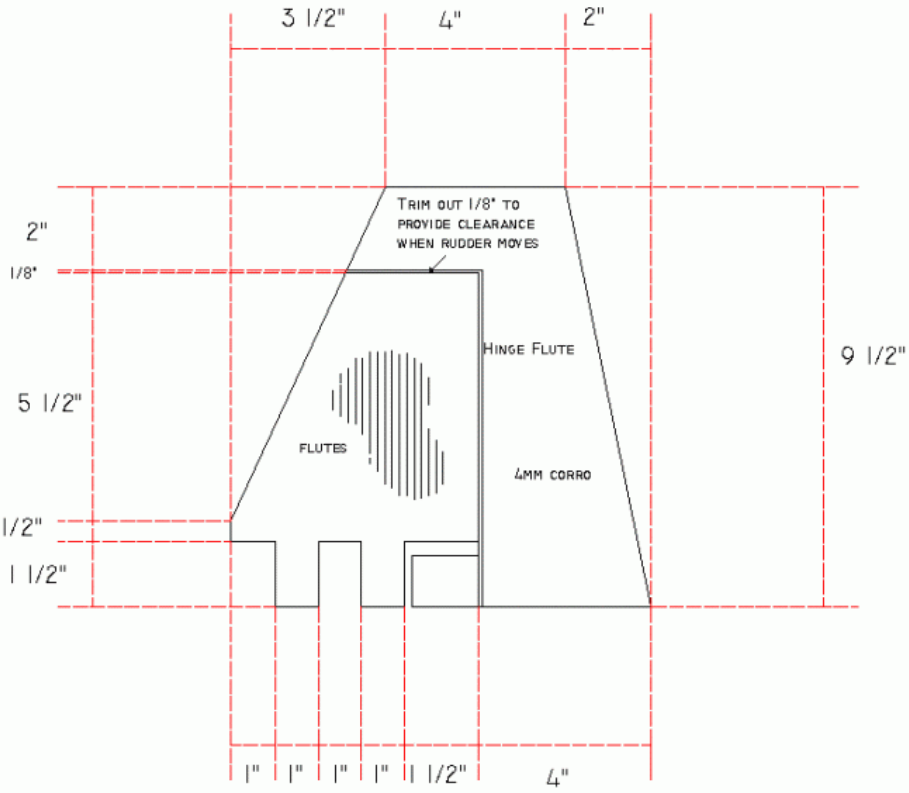
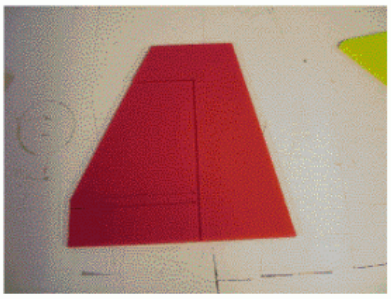
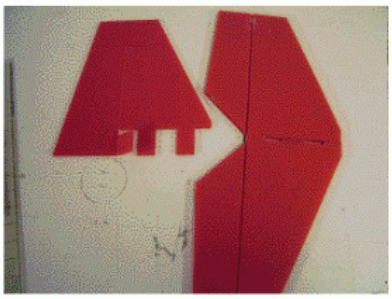


PEGS TO LOCATE FIN INTO TAILPLANE, YOU MAY FIND IT EASIER TO WORK TO THE FLUTES RATHER THAN THE DIMENSIONS SHOWN, DIMENSIONS ARE APPROXIMATE.





CORROWOT TAIL FIN. DRAWING V2.1

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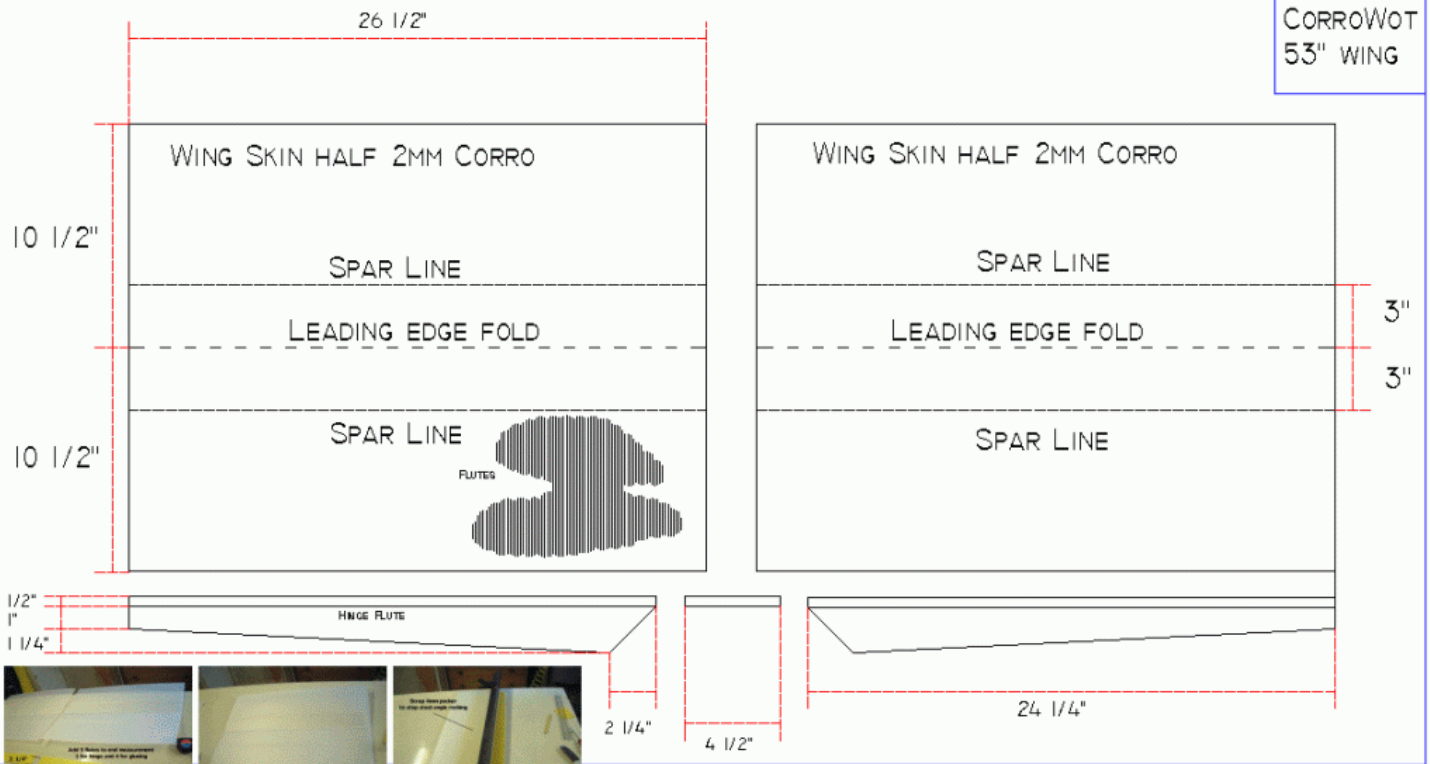
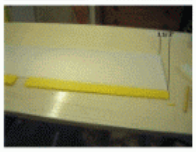
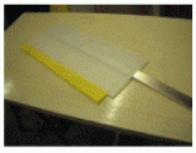
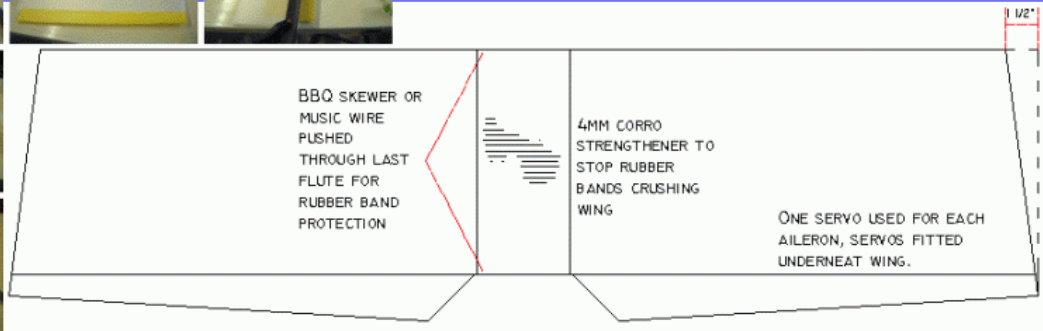
CorroWot 53" wing



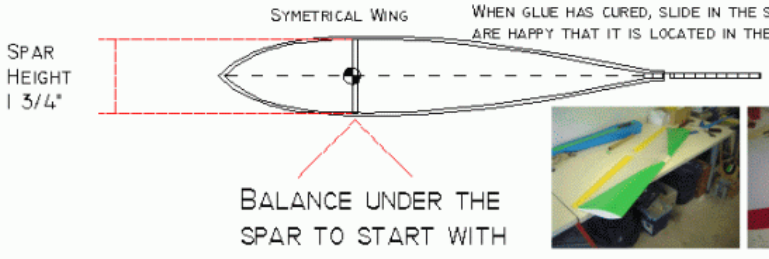


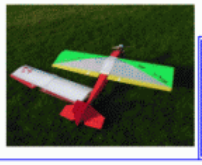




Original Spar made from folded aluminium, alternatives could be wood, layered correx or foam and yardstick.

Suggested method of wing construction.
Glue ailerons to bottom of wing first, then fold over the top of the wing and glue it to the top of the ailerons flat with no spar. If you like you can trim off 1 1/2" tapering out from the leading edge at the tip to the trailing edge, as shown above, you will need to block the ends of the wing tips if you do this though, see build instructions for details.
When glue has cured, slide in the spar flat and twist it up into its upright position, play around until you are happy that it is located in the correct place then run CA down each side of the spar.





CorroWot 53" wing. Drawing V2.0
14/05/2005
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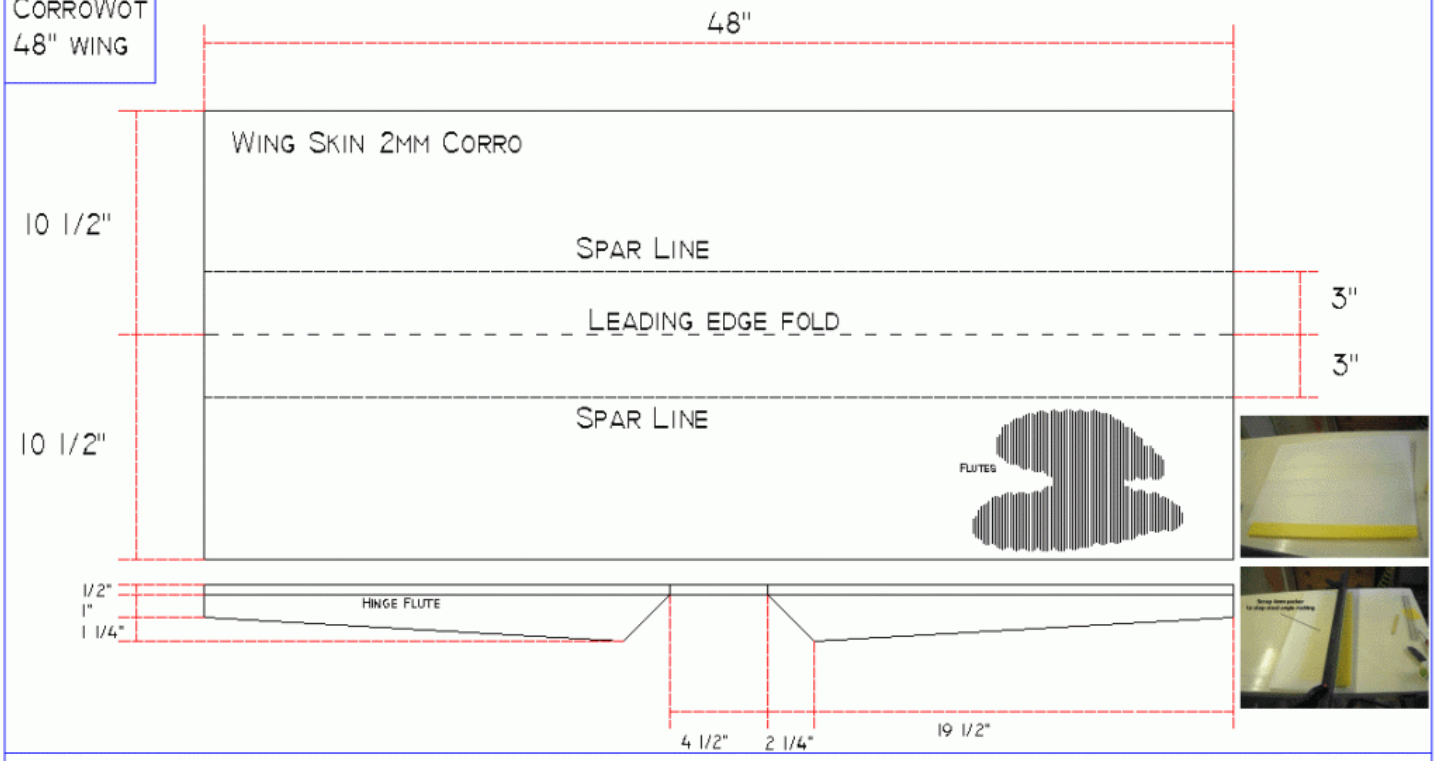
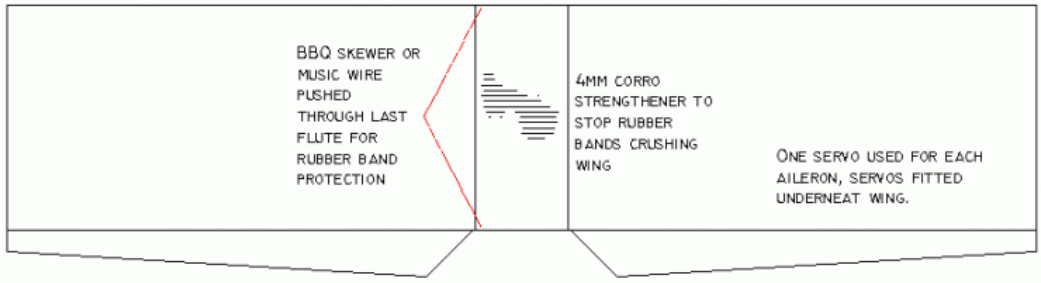
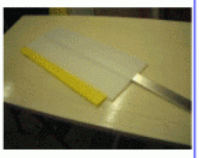
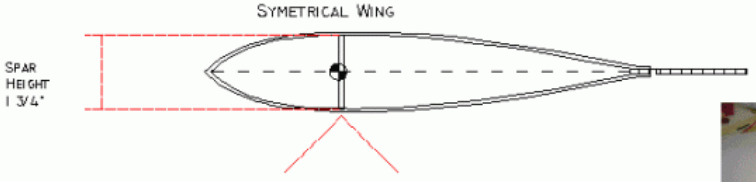
CorroWot 48" wing







Original Spar made from folded aluminium, alternatives could be wood, layered correx or foam and yardstick.



Balance under the spar to start with

Suggested method of wing construction.
Glue ailerons to bottom of wing first, then fold over the top of the wing and glue it to the top of the ailerons flat with no spar.
When glue has cured, slide in the spar flat and twist it up into its upright position, play around until you are happy that it is located in the correct place then run CA down each side of the spar.

CorroWot 48" wing. Drawing V2.1
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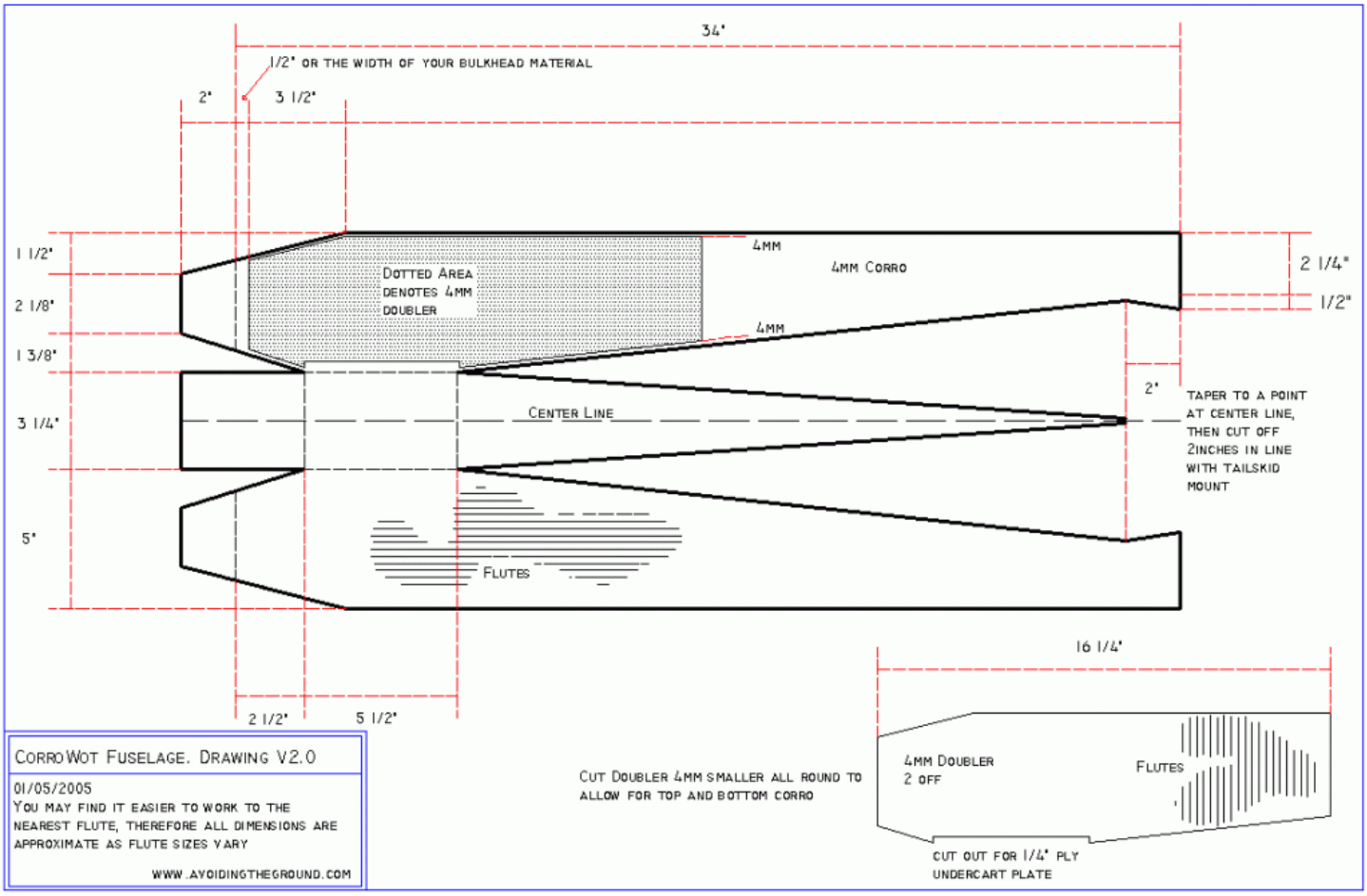

CUT DOUBLER 4MM SMALLER ALL ROUND TO ALLOW FOR TOP AND BOTTOM CORRO

CORROWOT FUSELAGE. DRAWING V2.0

01/05/2005

YOU MAY FIND IT EASIER TO WORK TO THE NEAREST FLUTE, THEREFORE ALL DIMENSIONS ARE APPROXIMATE AS FLUTE SIZES VARY

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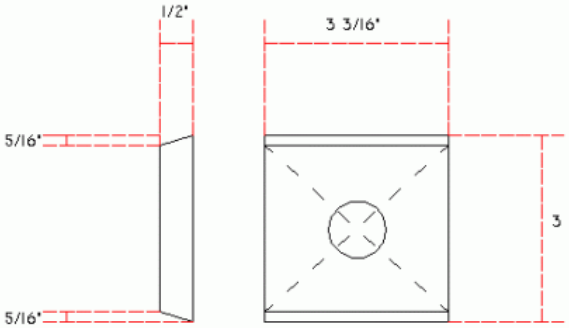
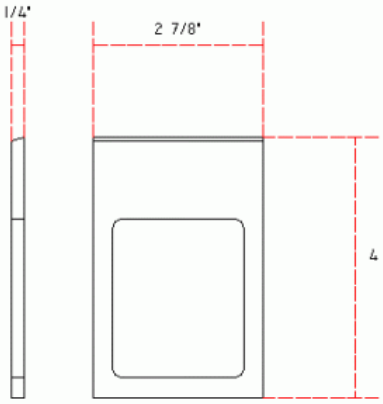
ENGINE BULKHEAD

1/2" PLY OR HDPE, HOLE DRILLED IN CENTER TO SUIT YOUR FUEL TANK



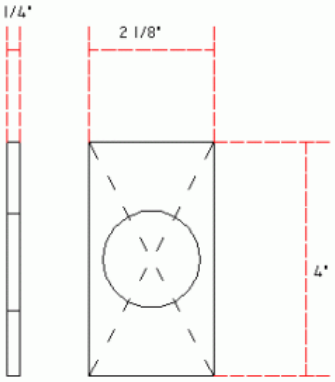
FORMER 1

1/4" PLY, BALSA OR DOUBLED UP 4MM CORREX, HOLE CUT TO SUIT YOUR FUEL TANK

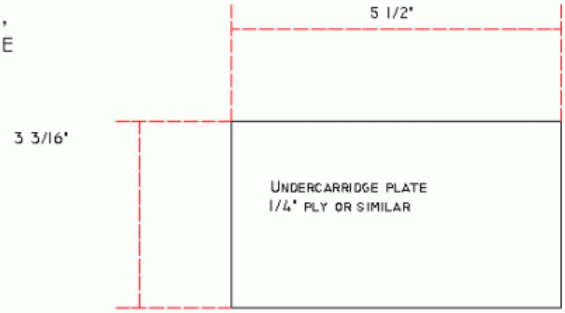


FORMER 2

1/4" PLY, BALSA OR DOUBLED UP 4MM CORREX, LIGHTENING HOLE CUT IN CENTER.



FLUTE SIZES VARY, TREAT THESE DIMENSIONS AS A ROUGH GUIDE, CHECK AGAINST YOUR FUSELAGE SIZE.



CORROWOT FORMERS V2.0

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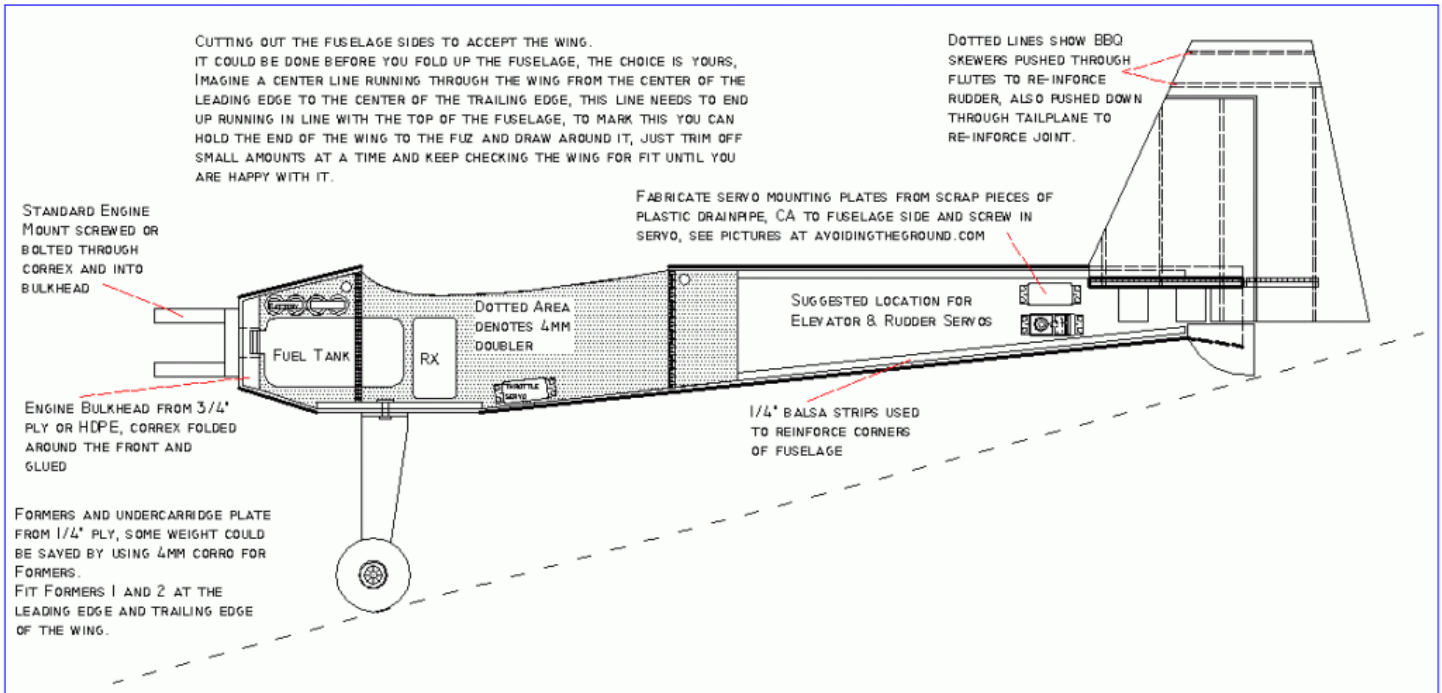

For first flights balance the model directly underneath the wingspar, with the CofG in this location CorroWot will fly in a safe stable manner, for flatter spins and more sparkling manouverability, you may want to move the CofG back, do this in small steps, no more than 1/8" at a time for safety.

CorroWot side view Drawing V2.1

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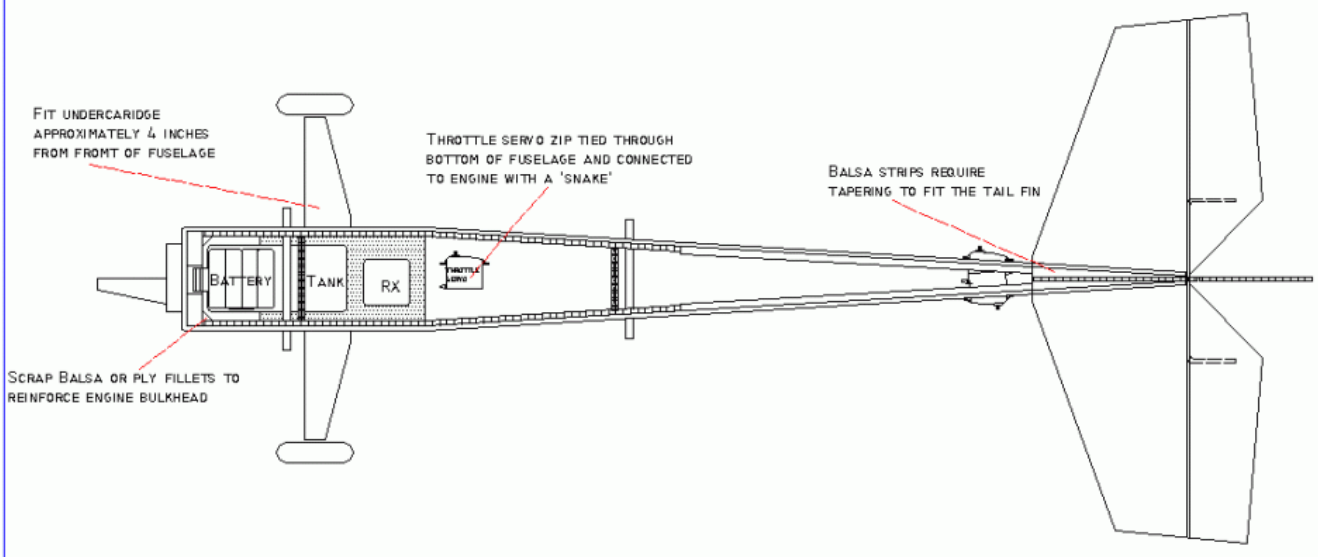

CorroWot top view Drawing V2.1

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