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FPV V3

Slow flying, stable plane for FPV.

PDF NOTES and TIPS

****PRINT ONLY THIS PAGE FIRST**** to check that the printed scale is correct. The black line below should be five inches long. If it measures to 5 inches then print the rest of the pages. If the black line does NOT measure to 5 inches make sure that "Page Scaling" is turned OFF in your printers setting box.

*You will need to trim any side of a page that has the red guide lines. Just trim right up to the lines. These lines should match up exactly and will be 3 inches long.

Print scale

5 inches

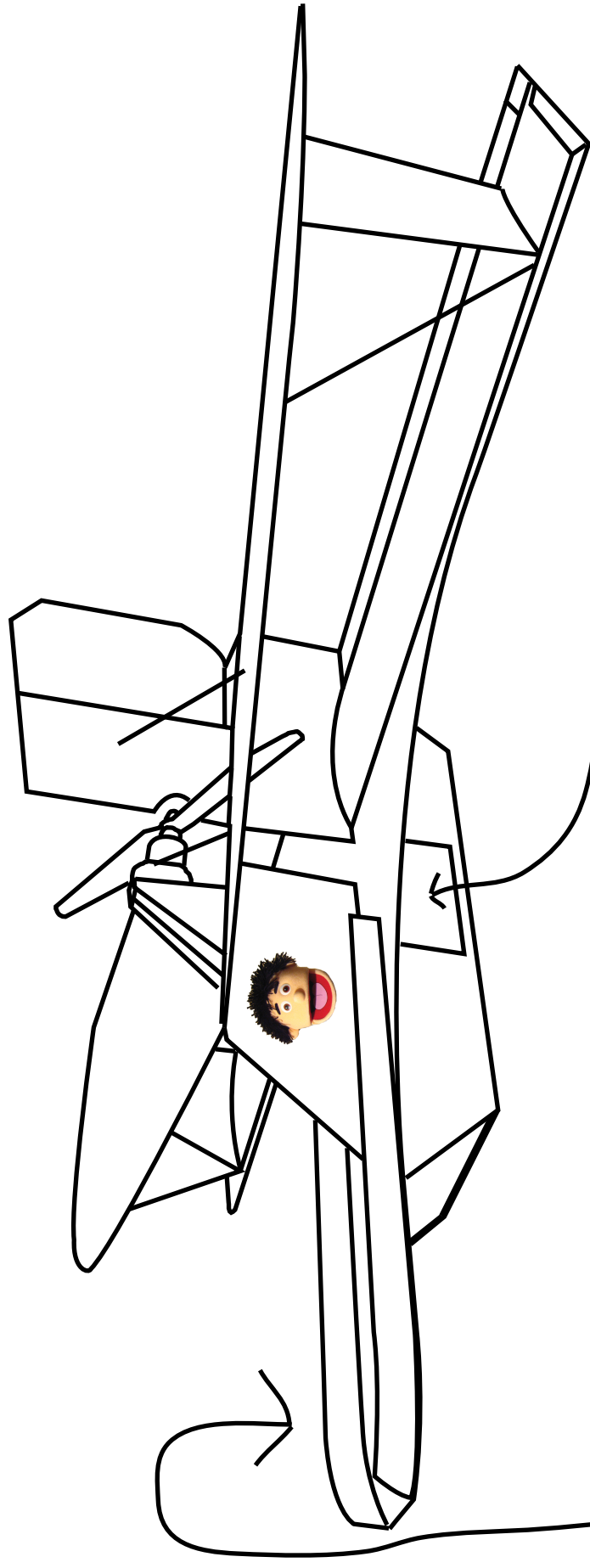
Build Materials

- *3/16th or 1/4 inch Foamboard for the fuselage, wings and tail. I highly recommend using foamboard from the Dollar Tree stores as it's 1/2 the weight of other foam board and just about as strong. About 3 20 X 30 inch sheets of board are needed. The company that makes this foam board is <http://www.adamsplasticsinc.com/>
- **IF you use heavier duty foam board like Elmers® your plane may not fly as slow.**
- *1/16 galvanized steel on a roll (from a hardware store) or RC pushrods, about 10 inches are needed (or 24 total inches if you make movable rudders. OR you can use RC pushrods if you have them.
- *Hot glue(prefered) or 5 min epoxy.
- *Thick packing tape for control surface hinges and wing stiffening.
- *About 4 12 inch BBQ skewers
- *About 34 inches of 3/8 inch diameter wooden Poplar dowel rod.
- *4 regular size popsicle sticks. OR you can use plastic ready made RC control horns.
- *About 7 wide tongue depressors.

Plane Electronics Requirements

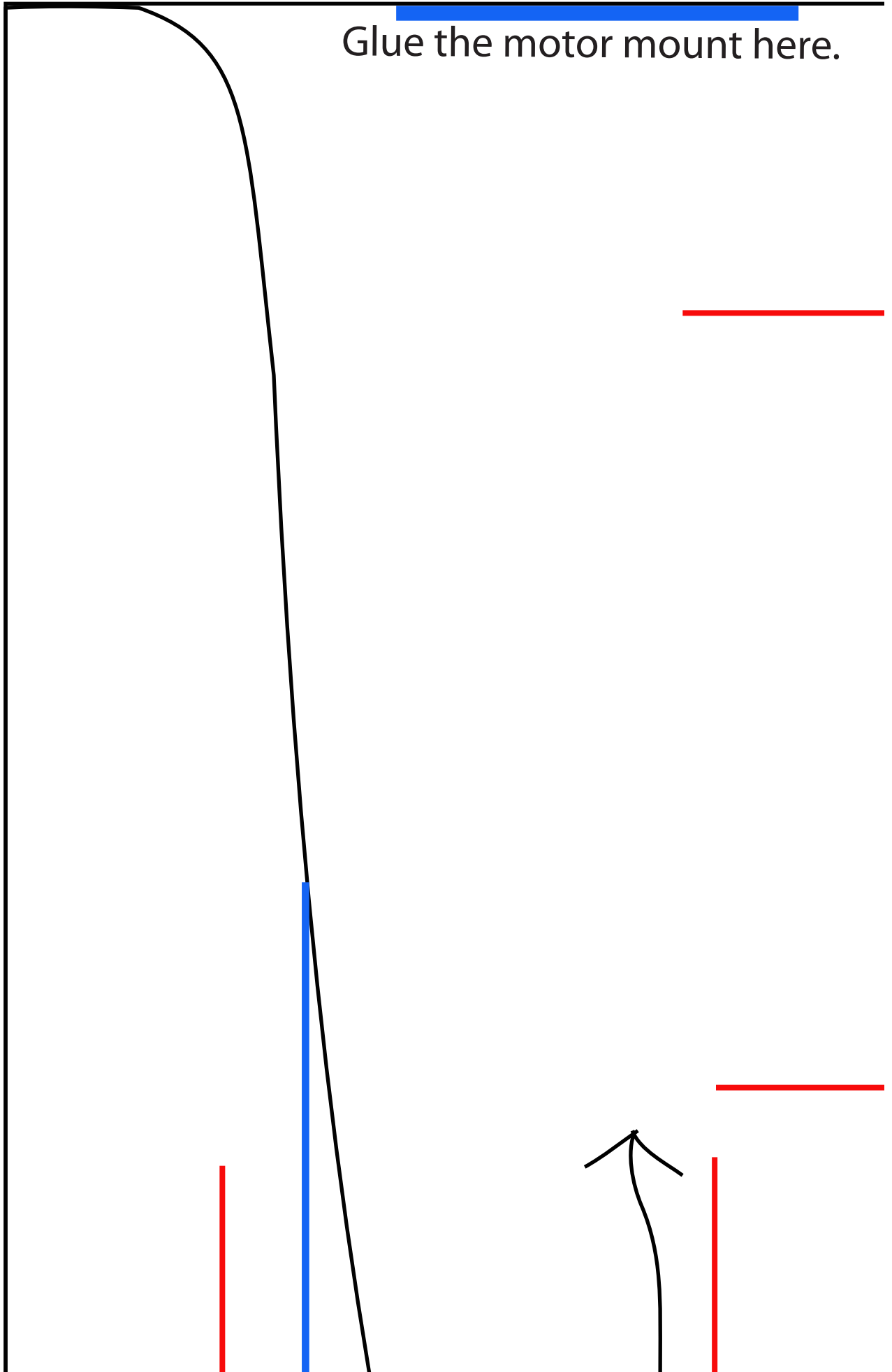
- *Transmitter / flight control - This plane uses elecon mixing just like flying wings or delta wing planes to fly. You will need a computer radio with this mixing OR an onboard mixer.
- *1 - 11.1V 1800 -2200mAh 25C li-po's
- *1 - 70(ish) gram 1000KV motor
- *1 - 30 - 40 amp speed control
- *3 - 9 gram servos

MikeysRC FPV V3. Slow and Stable plane.



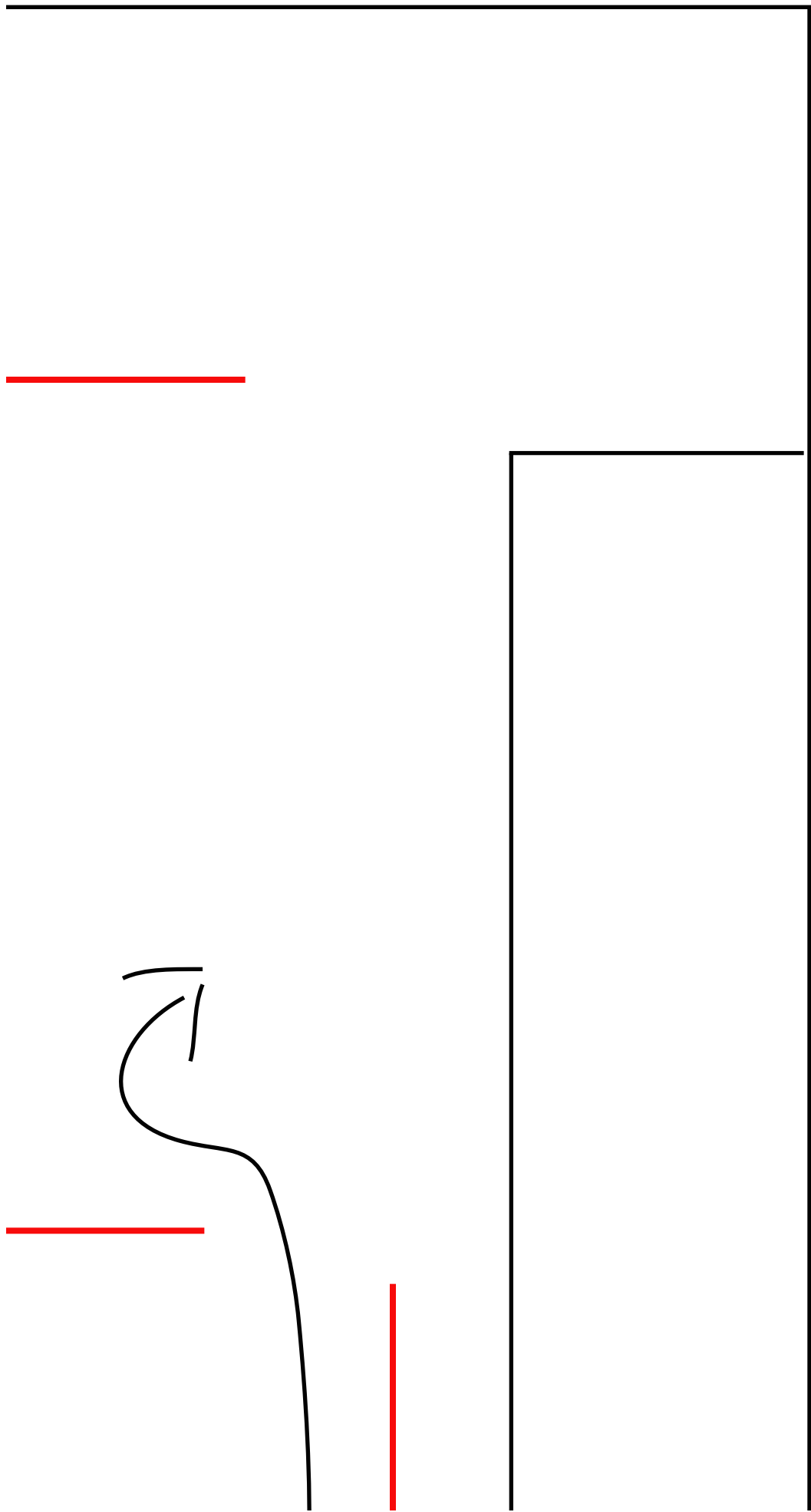
This plane is designed to carry a small HD camera AND / OR FPV equipment on it's nose. You can fit just about as much battery capacity as you would ever need on the bottom.

Glue the motor mount here.



Cut this area out for the prop
to swing through..

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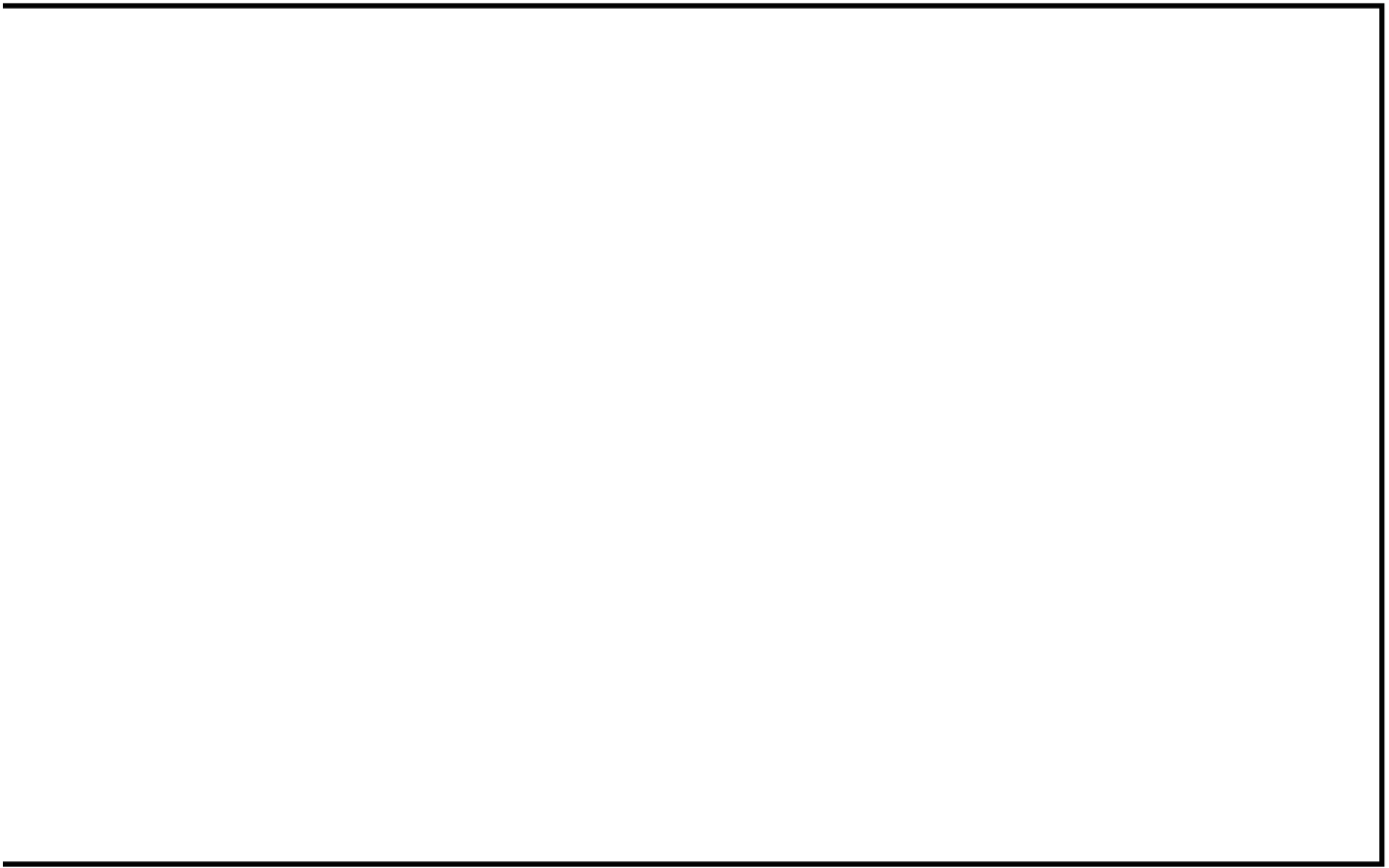
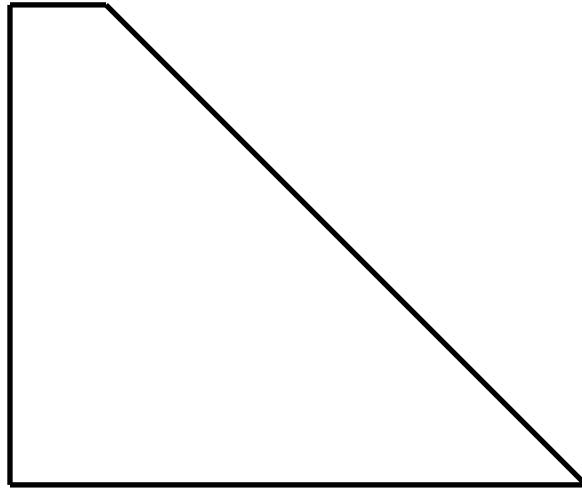
*FOR DETAILED VIDEO TIPS ON
HOW TO ASSEMBLE THIS PLANE VISIT
<http://WWW.YOUTUBE.COM/MIKEYSRC>
AND visit the official MikeyRC forum
for even more free RC help!

(Updated 12/4/11 This piece was too small in earlier plans.)

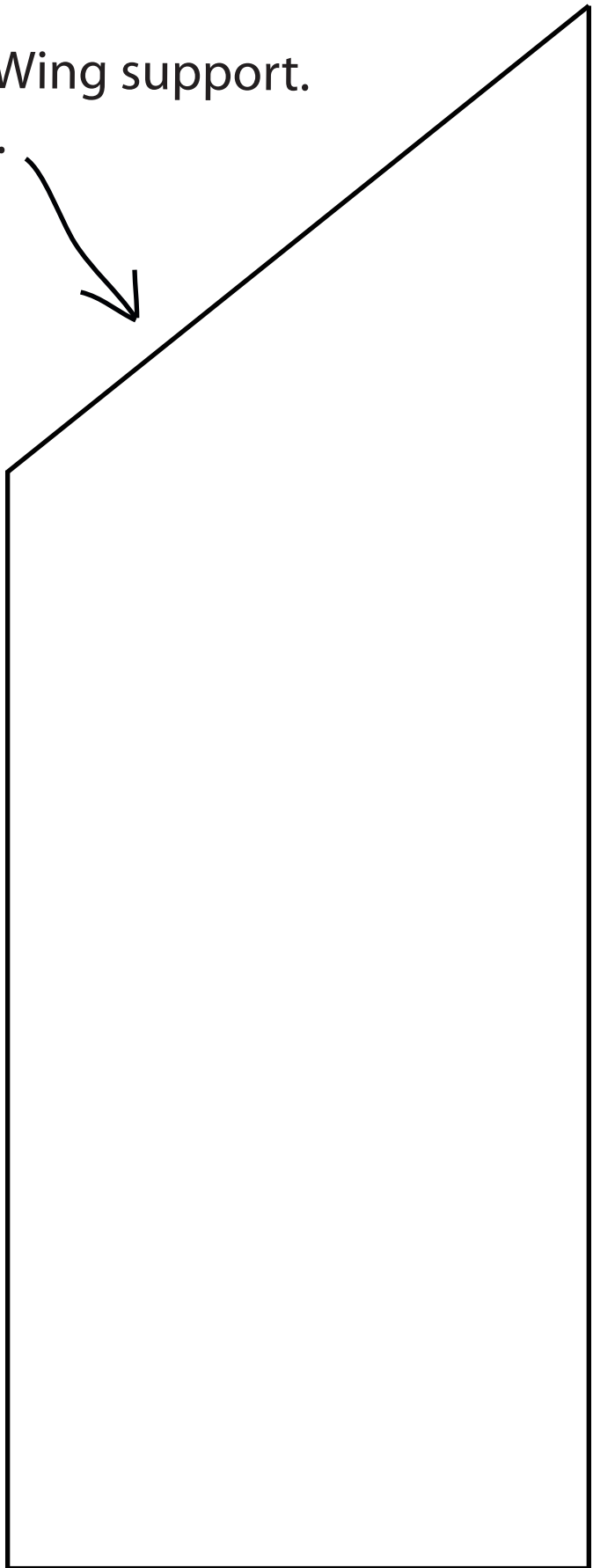
Battery Tray Bottom.

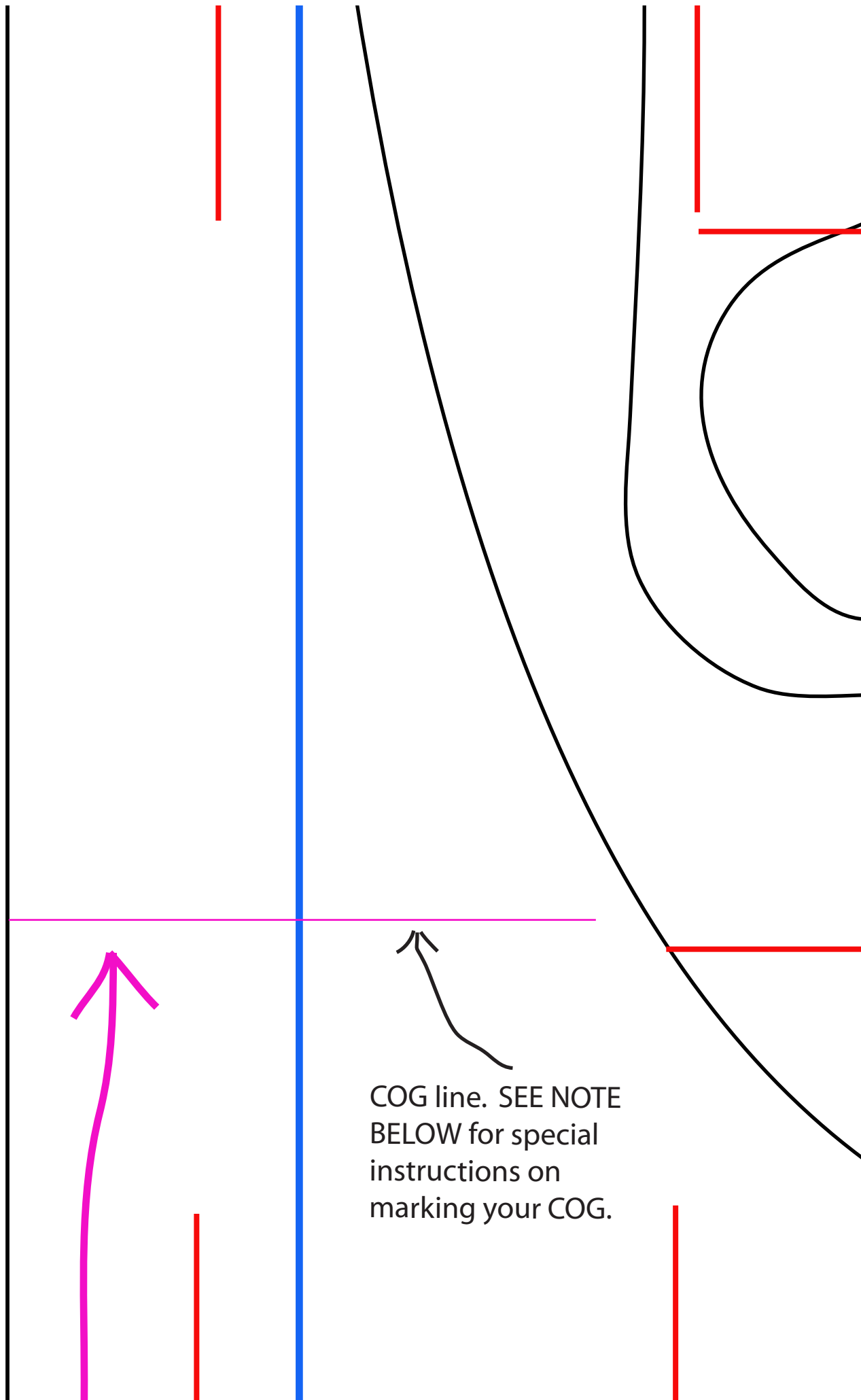
Cut out two of
these. They will be glued on top of
each other and mounted on the very
bottom of the plane. The double
thickness is for extra strength on
landings and to carry the batteries.

Motor mount / support. Cut out three of these and glue them together.



Front Middle Upper Wing support.
Cut out one of these.

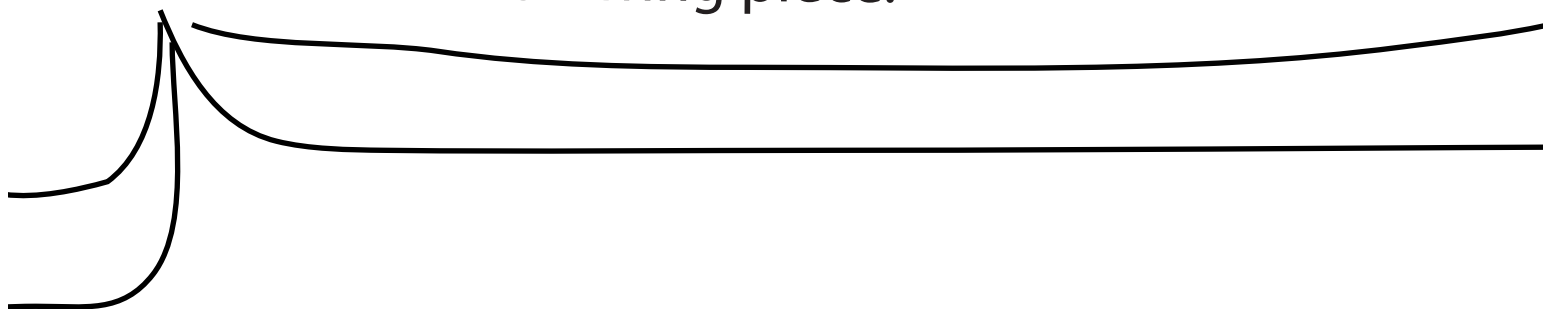




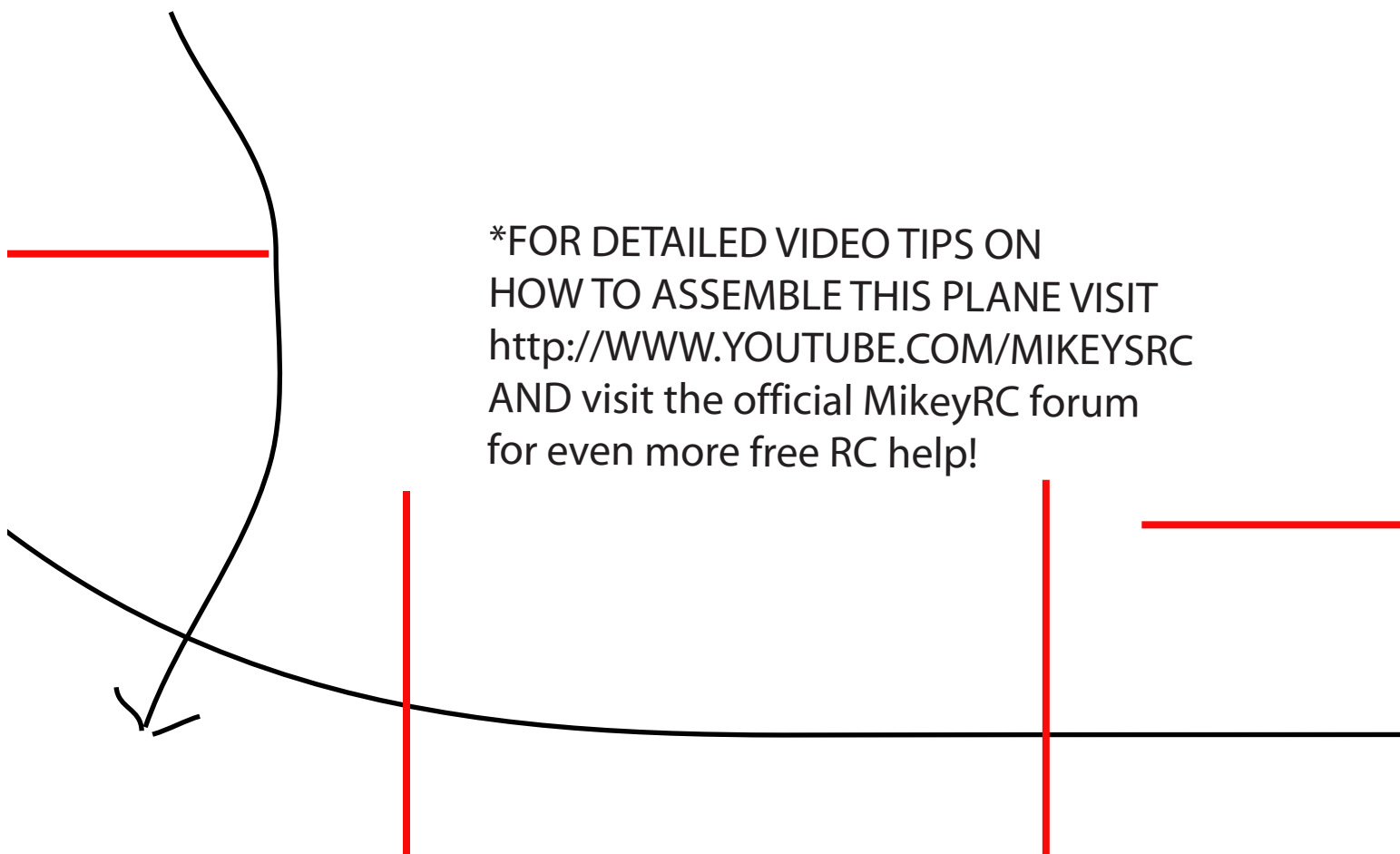
COG line. SEE NOTE
BELOW for special
instructions on
marking your COG.



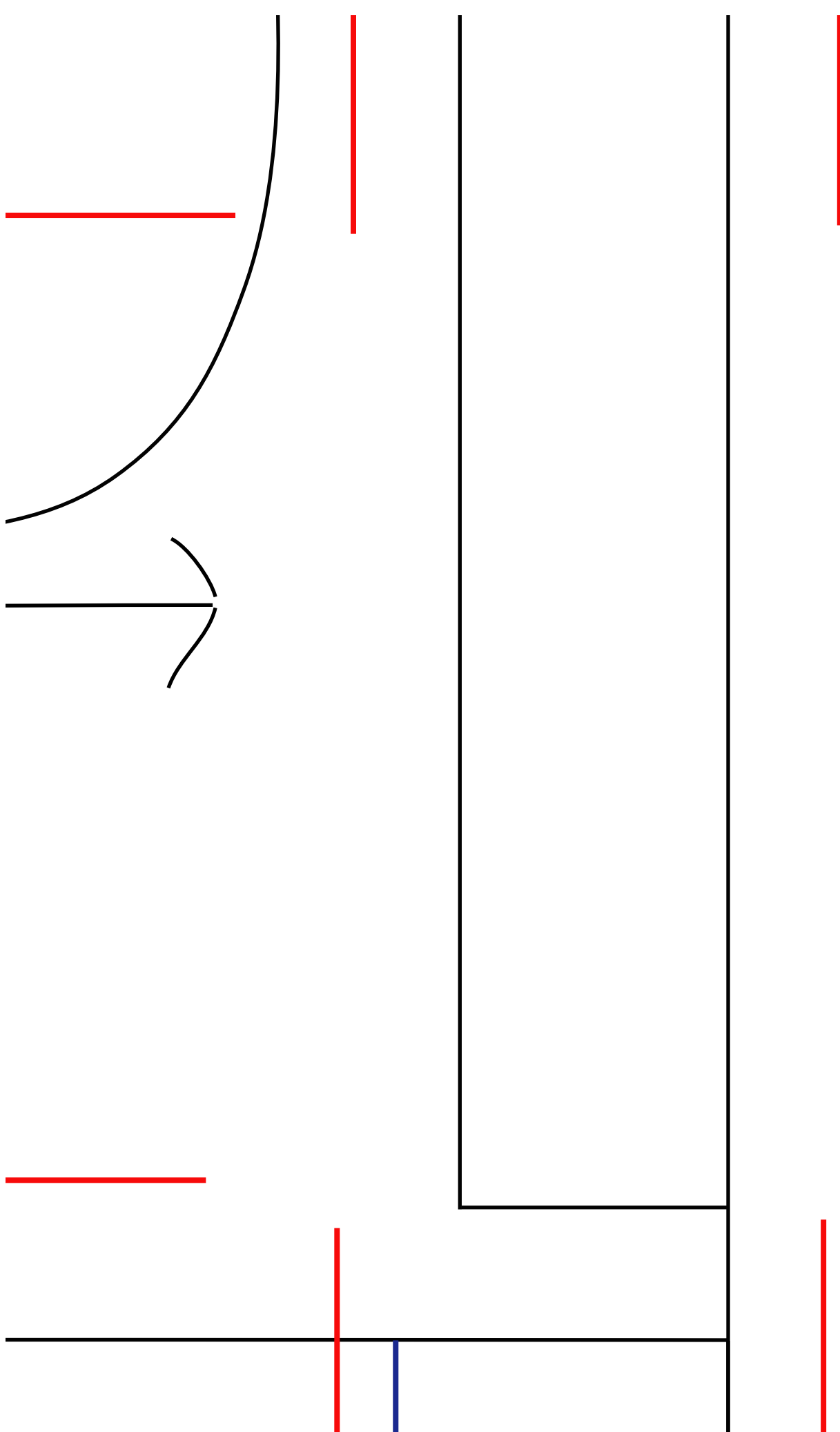
Both of these wing pieces can be cut out of one sheet of 20X30 inch foam board from the Dollar Tree stores. Cut out two of each piece shown here. This is all the TOP wing piece.

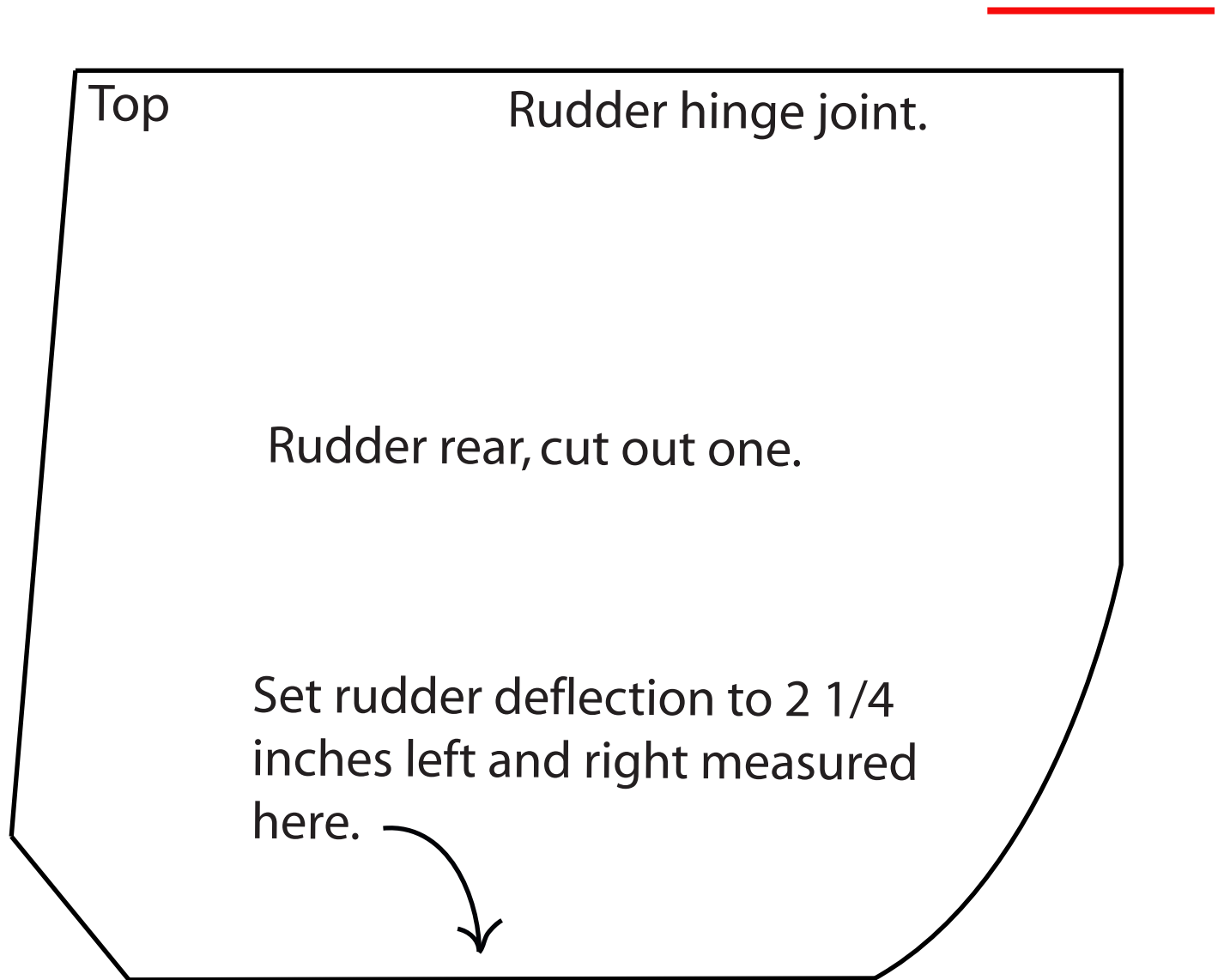


This is the BOTTOM wing piece.

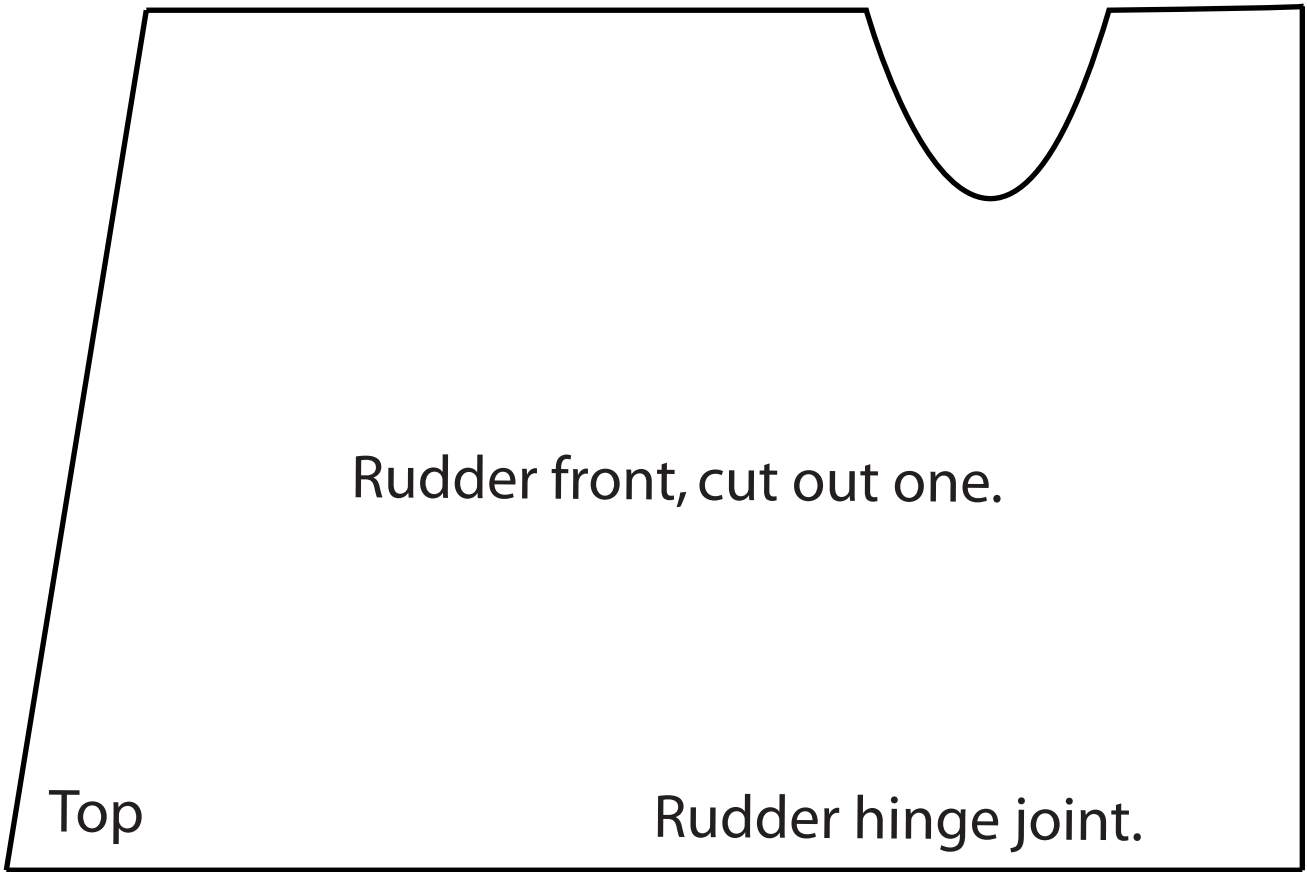


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Fuselage / nose support, cut out two.





FRONT

Outer / Upper wing support.
Cut out two of these.

BOTTOM



13 inches

Battery tray bottom side piece gets glued here under the bottom wing pieces.

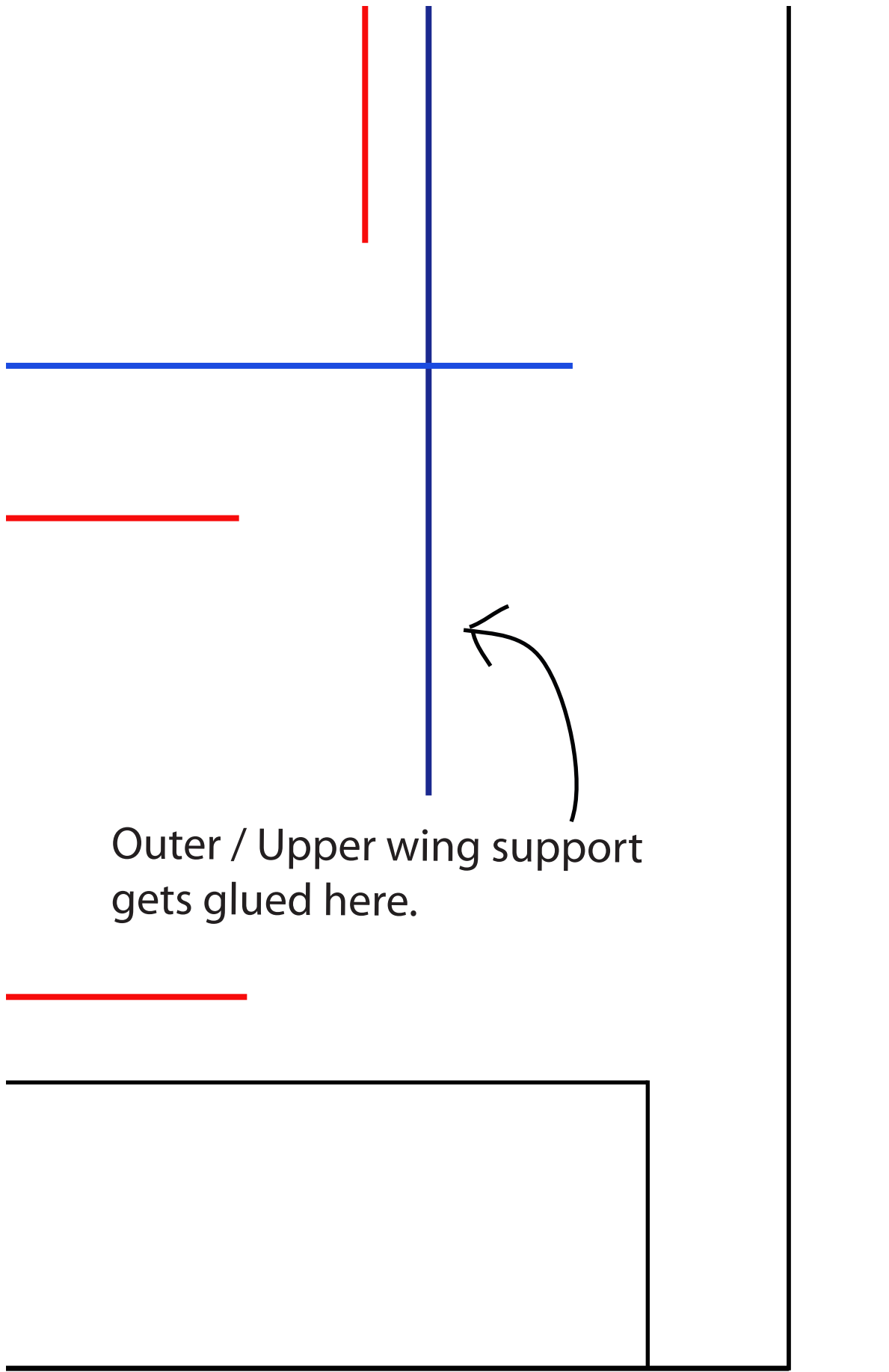
SPECIAL NOTE ON THE Center Of Gravity for this plane!! It's best to just measure 13 inches forward of trailing edge of the wing as some printers print margins differently and this could throw off your COG line. So DON'T rely on the **PINK** COG line on the plans. Use a tape measure and measure your own COG line. This plane flies OK if it's ever so slightly tail heavy, like 12 7/8" inch could work OK.

Wing Spar location. Don't use anything smaller than a 3/8 inch wooden dowel rod as this spar takes the load of both upper and lower wings.

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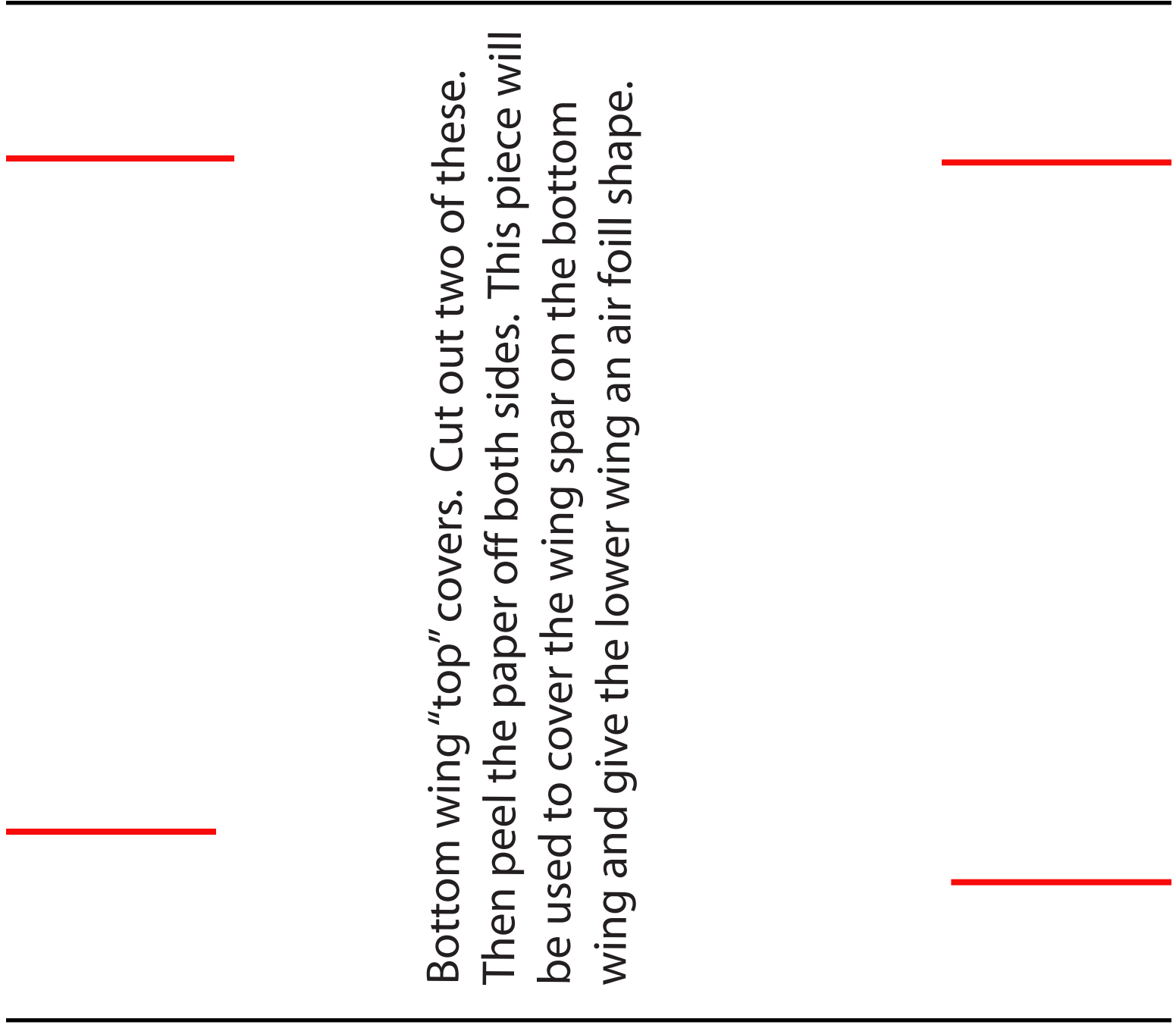
Set elevon deflection (measured here) to;
Elevator only - At least 3/4 inches up / down
Aileron only - At least 3/4 inch up / down





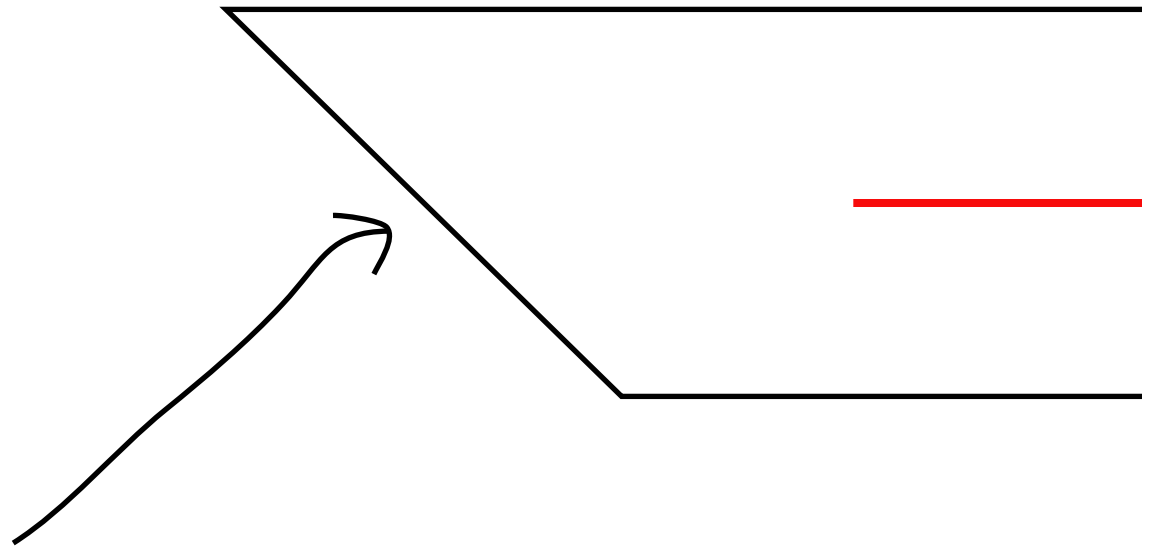
Outer / Upper wing support
gets glued here.

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Bottom wing “top” covers. Cut out two of these. Then peel the paper off both sides. This piece will be used to cover the wing spar on the bottom wing and give the lower wing an air foil shape.

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Battery Tray side. Cut out two of these.
Blue lines are recommended side access
door to be cut in one side only.



(Note this is the updated (12-1-11) version of the plans. Orignally this piece was wrong, it was too large.)

Rear Middle Upper Wing Support.
Cut out one of these.



