Mikey's RC FPV Camera Plane

PDF NOTES and TIPS

Print scale

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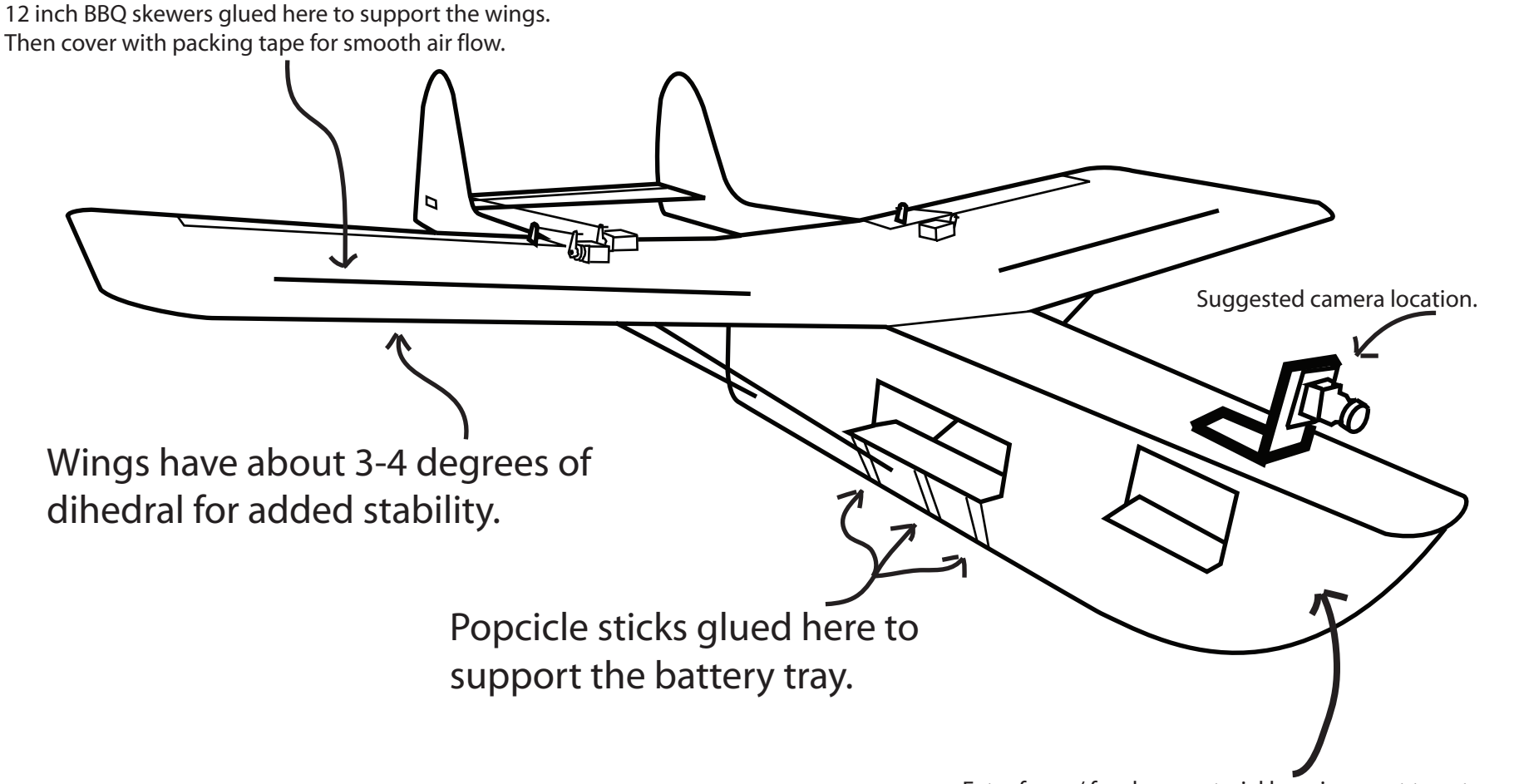
5 inches

PRINT THIS PAGE FIRST to check that the printed scale is correct. The black line above should be five inches long. If it measures to 5 inches then print the rest of the pages.

Trim paper up to the red lines. After trimming edges place edges of paper together, use the red lines to help align the plans then tape together.

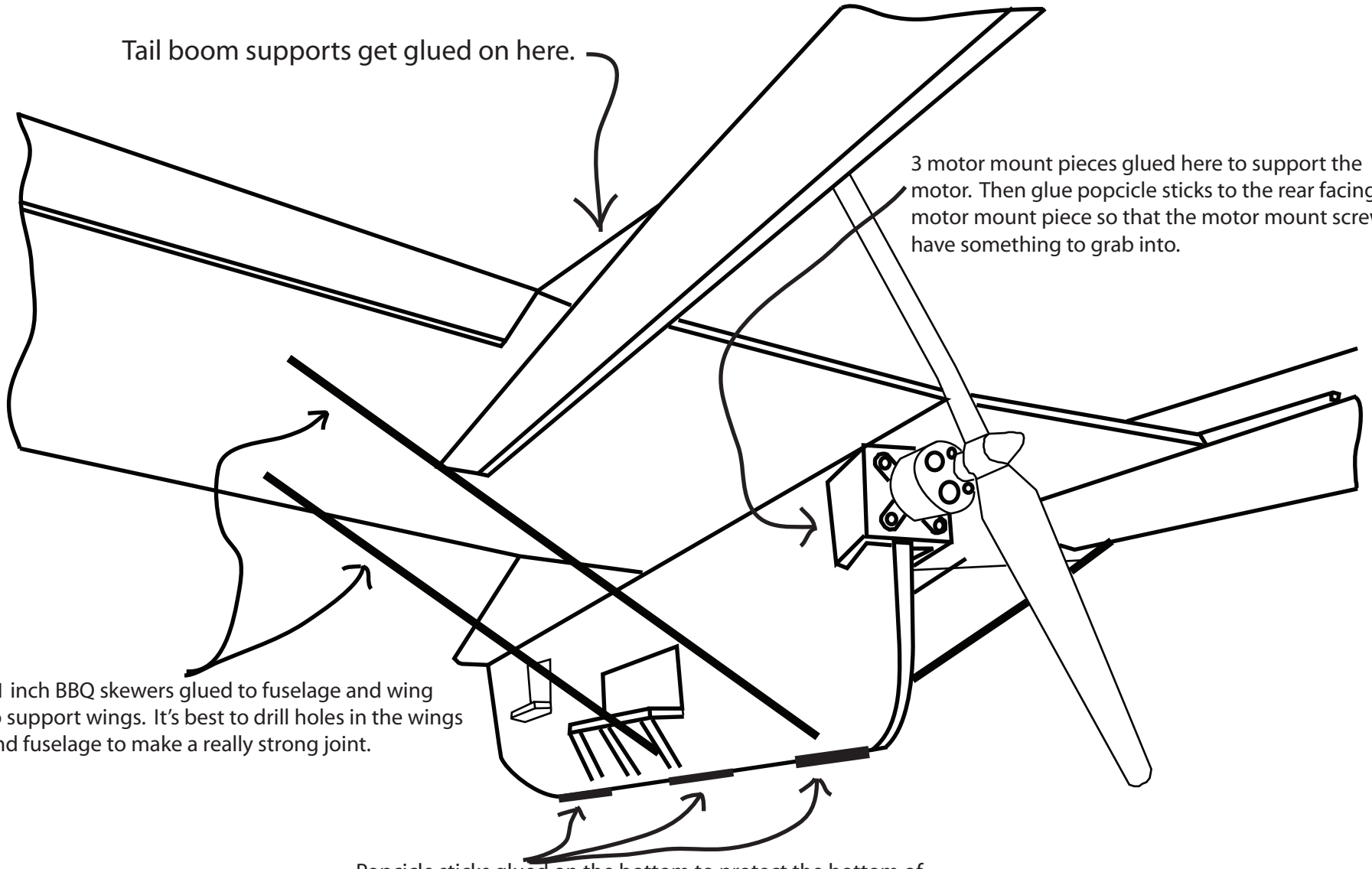
This plane was designed to be a capable of basic acrobatic manuvers (rolls and loops) while carrying a camera so FPV pilots could have a responsive plane that was fun to fly with an FPV (First Person View) camera setup. It was also designed so that no dissasembly was needed to fit it in the car, saving time and complication when seting up at the flying site. It's capable of carrying about 1 pound of camera equipment aloft.

3D side view of Mikey's RC FPV Camera Plane



This plane is designed to carry a camera mounted far forward on the nose. If you don't intend to carry a camera make sure to find a good battery location that will still allow the plane to balance on the CG.

Angled back view of Mikey's RC FPV Camera Plane

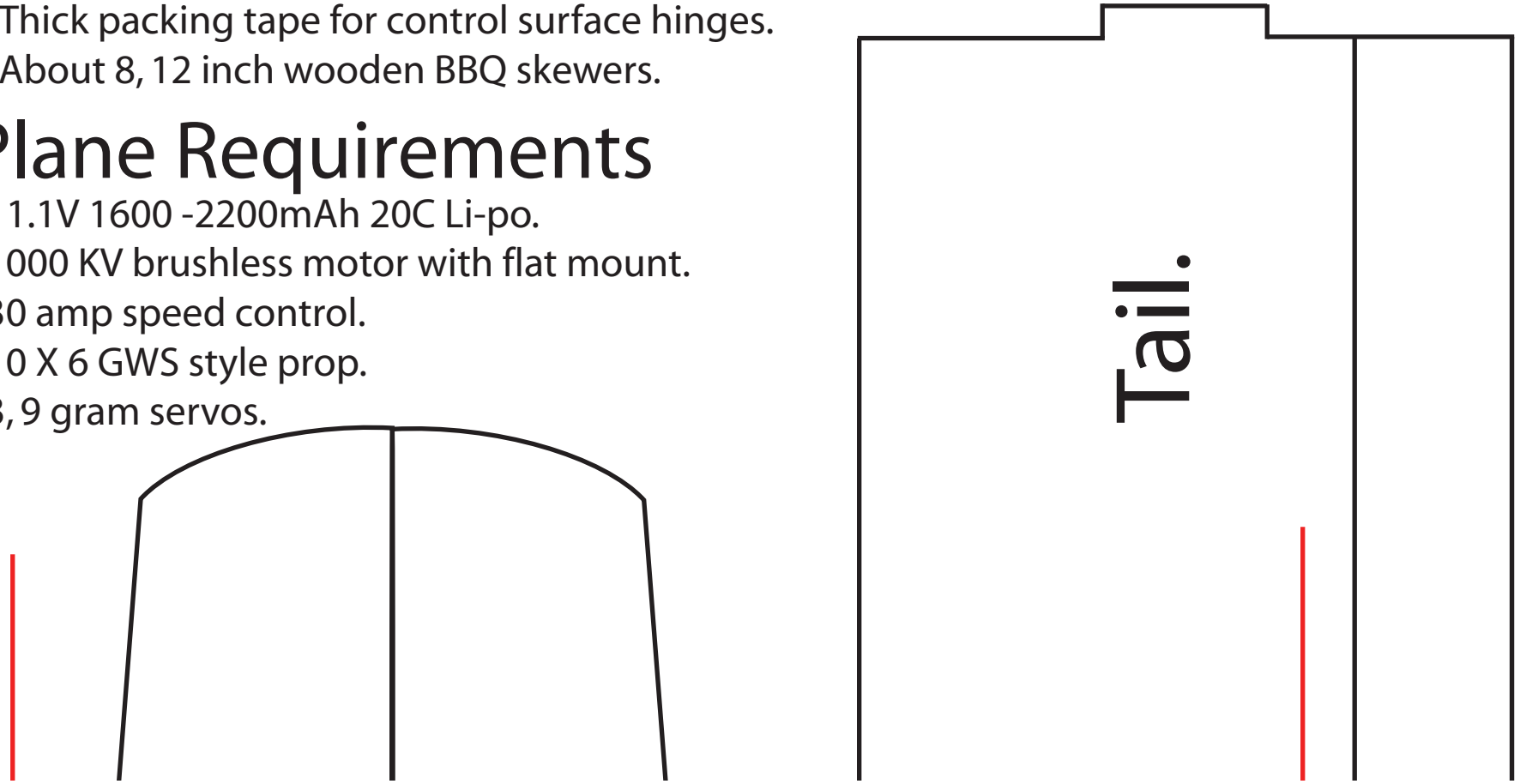


Build Materials

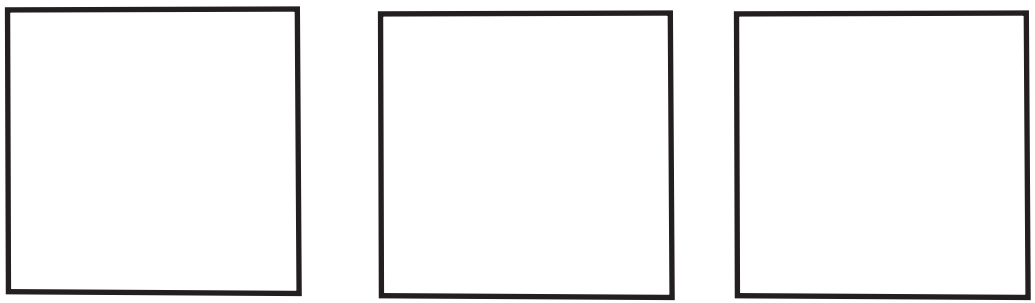
*3/16th or 1/4 inch Foam core for the fuselage, wings and tail. You can use 6 mm Depron also but you will have to add extra support to it to make it more ridgid. About40 X 24 inches of board is needed.
*About 15 popsicle sticks.
*1/16 Drill Rod (from a hardware store) or RC pushrods, about 28 inches are needed. OR ypu can use RC pushrods if you have them.
*Hot glue(prefered) or 5 min epoxy.
*Thick packing tape for control surface hinges.
*About 8, 12 inch wooden BBQ skewers.

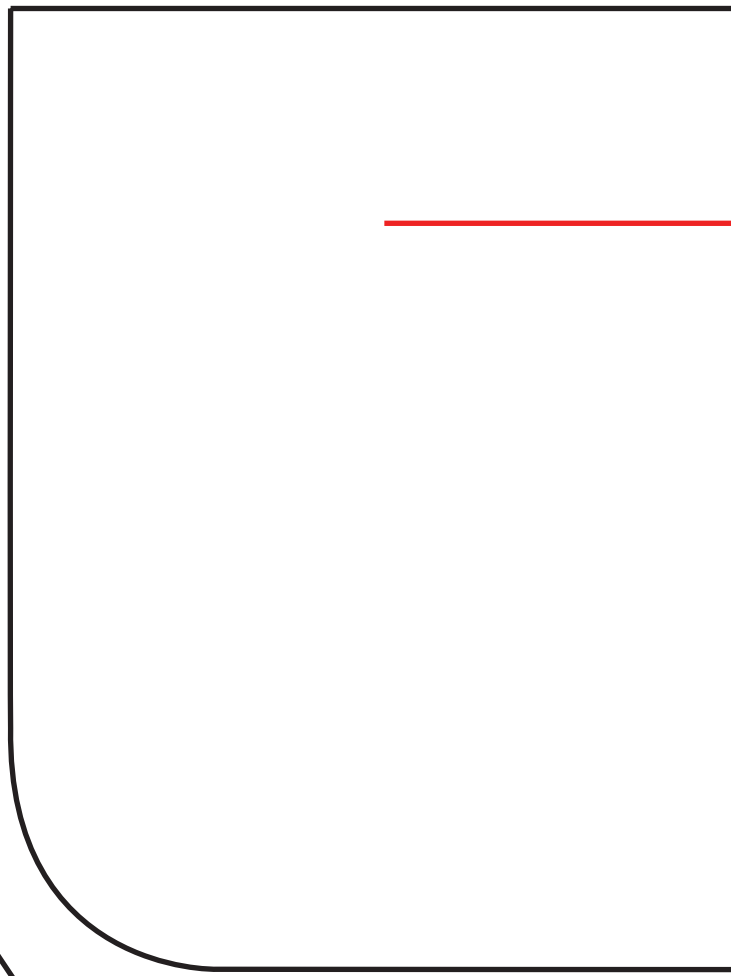
Plane Requirements

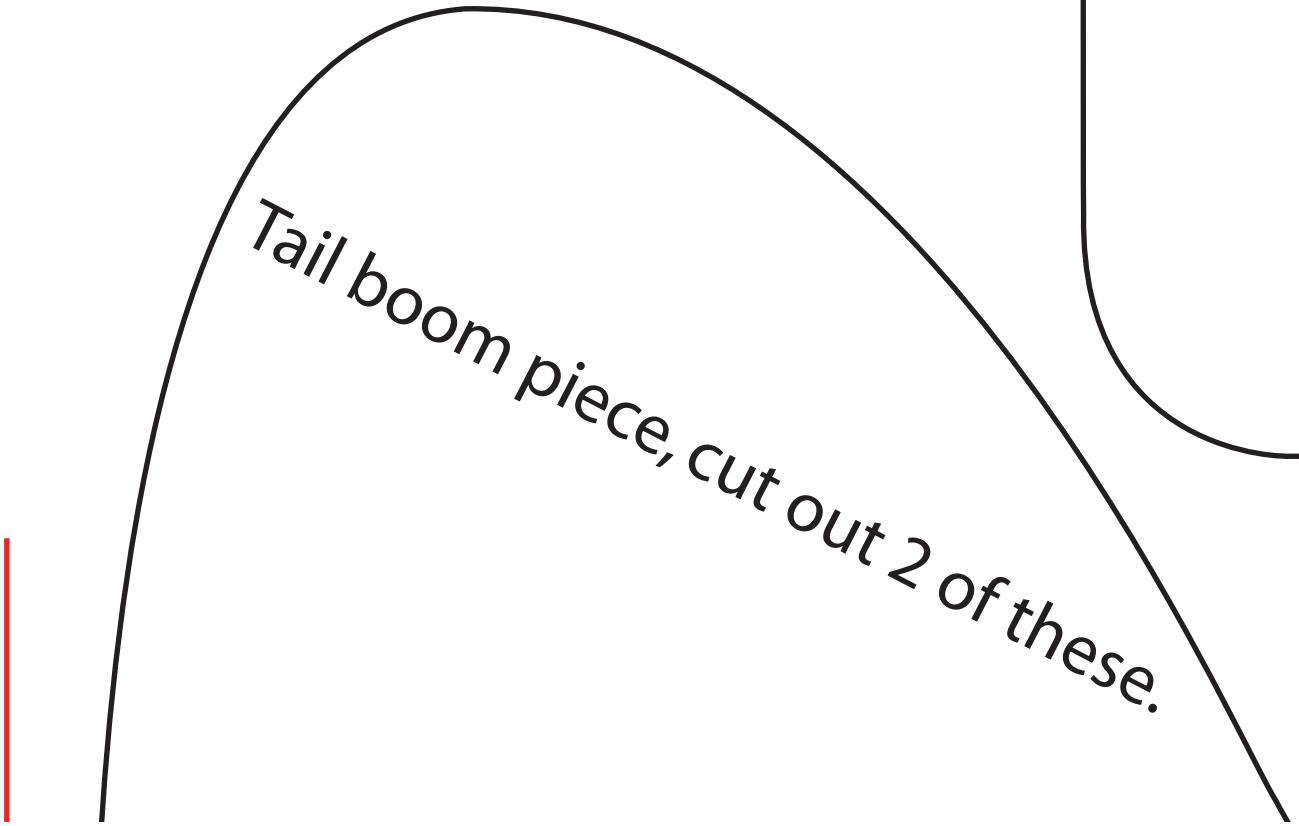
*11.1V 1600 -2200mAh 20C Li-po.
*1000 KV brushless motor with flat mount.
*30 amp speed control.
*10 X 6 GWS style prop.
*3, 9 gram servos.



3 motor mount pieces.







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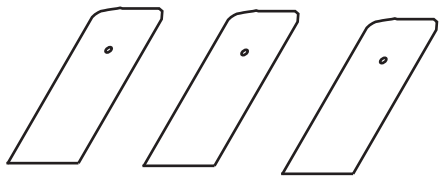
Cut this piece out and use it as the battery tray.

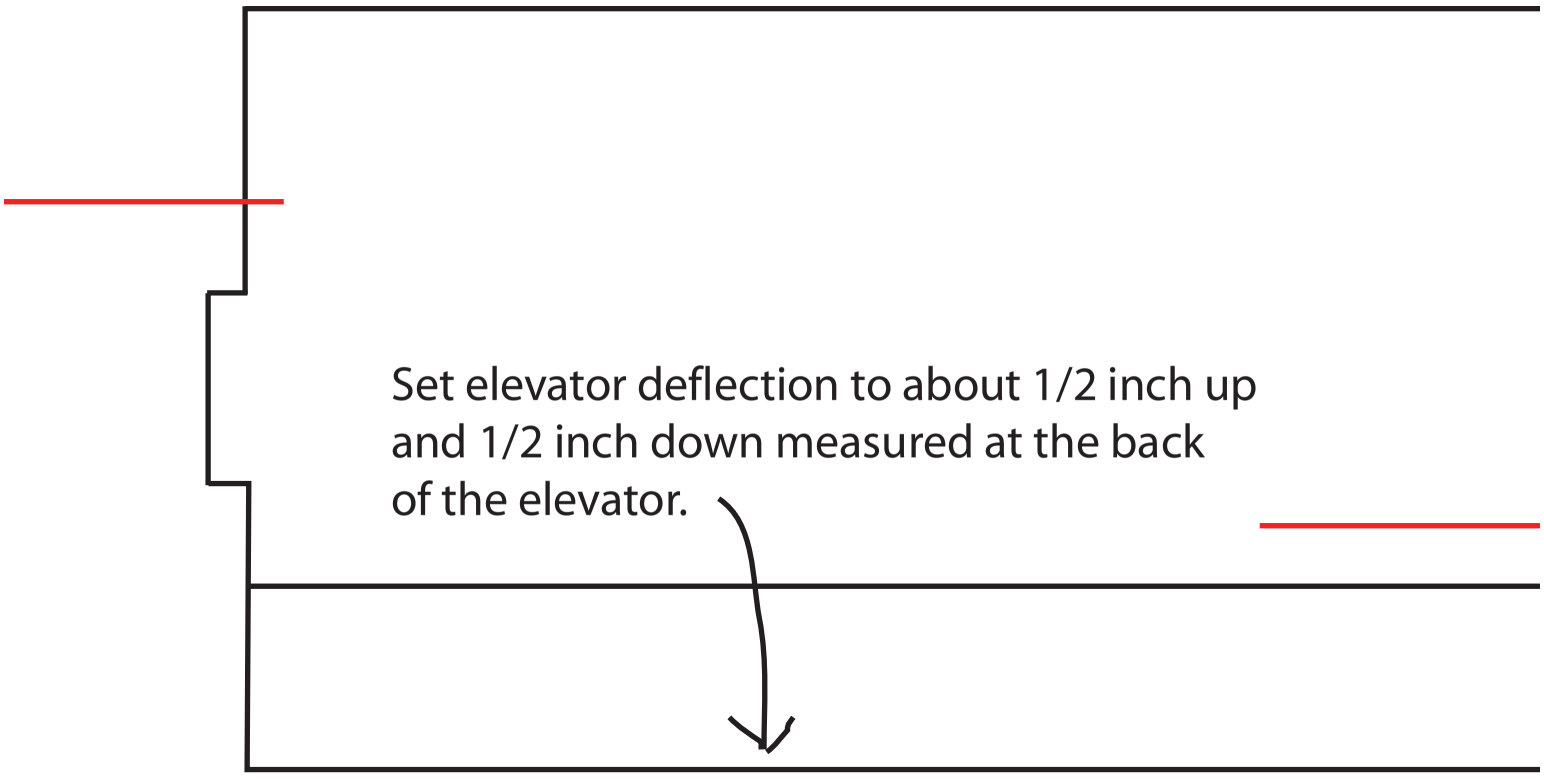
This is a suggested mounting location for the AUX battery for your FPV equipment. Cut out and use it as a battery tray.

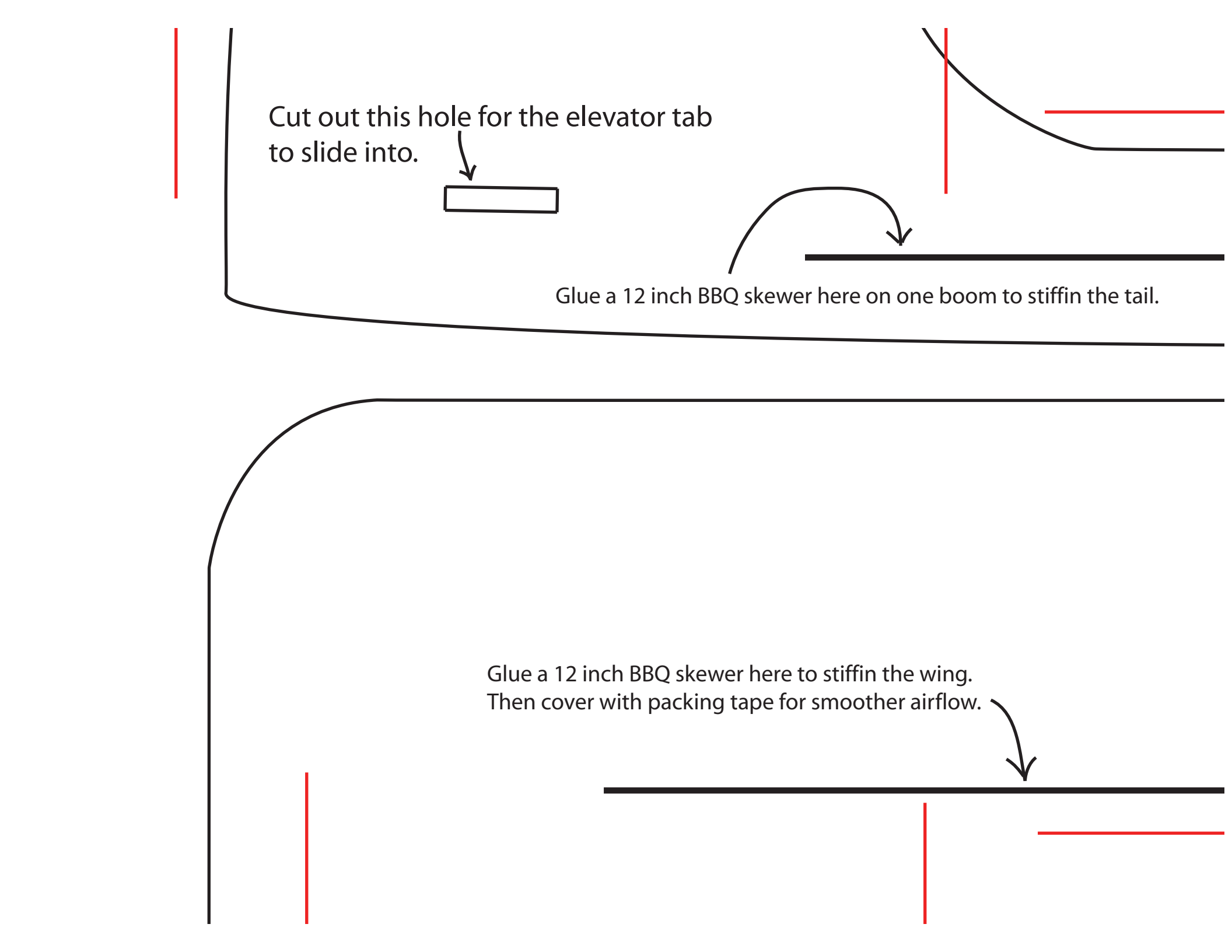
Do NOT Redistribute

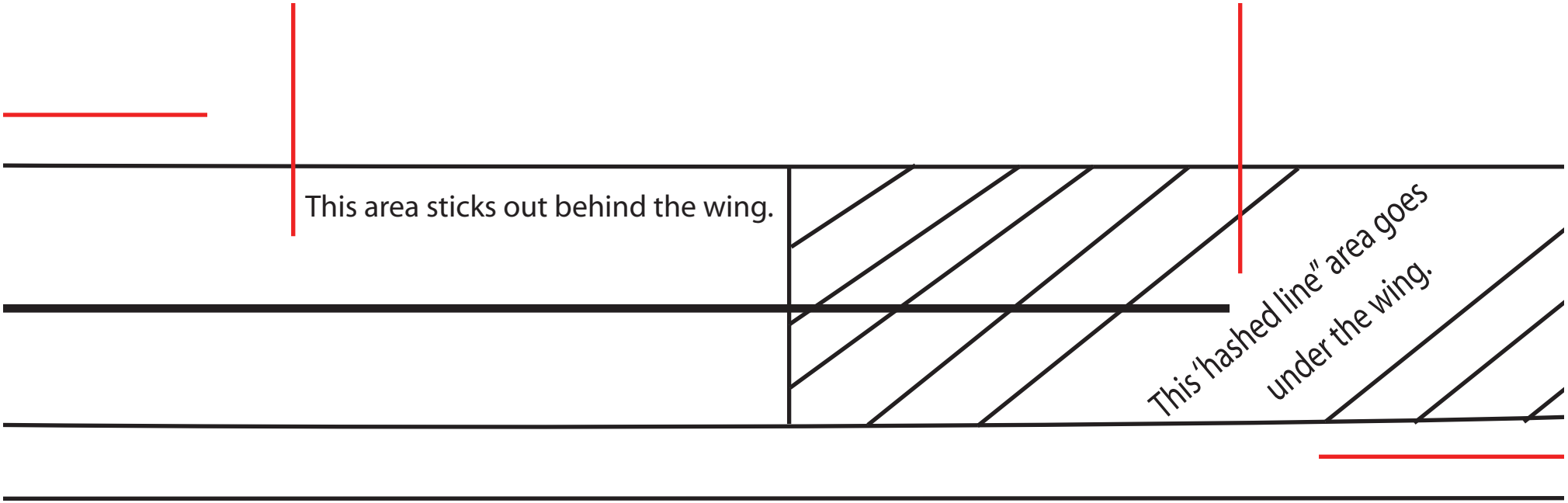
Aileron - Elevator popsicle stick control horn templates.



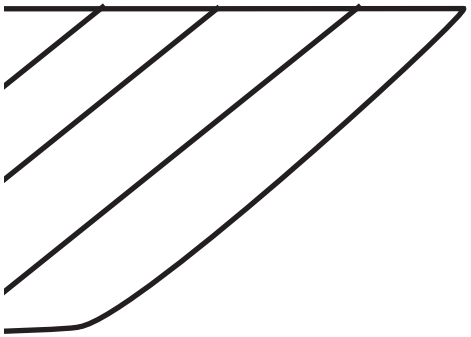
Top nose piece.



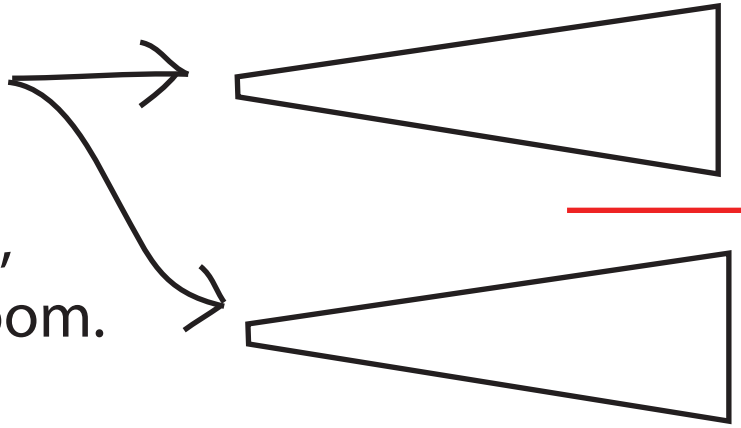

Cut out this hole for the elevator tab
to slide into.
Glue a 12 inch BBQ skewer here on one boom to stiffin the tail.
Glue a 12 inch BBQ skewer here to stiffin the wing.
Then cover with packing tape for smoother airflow.



Center of gravity is on this line.

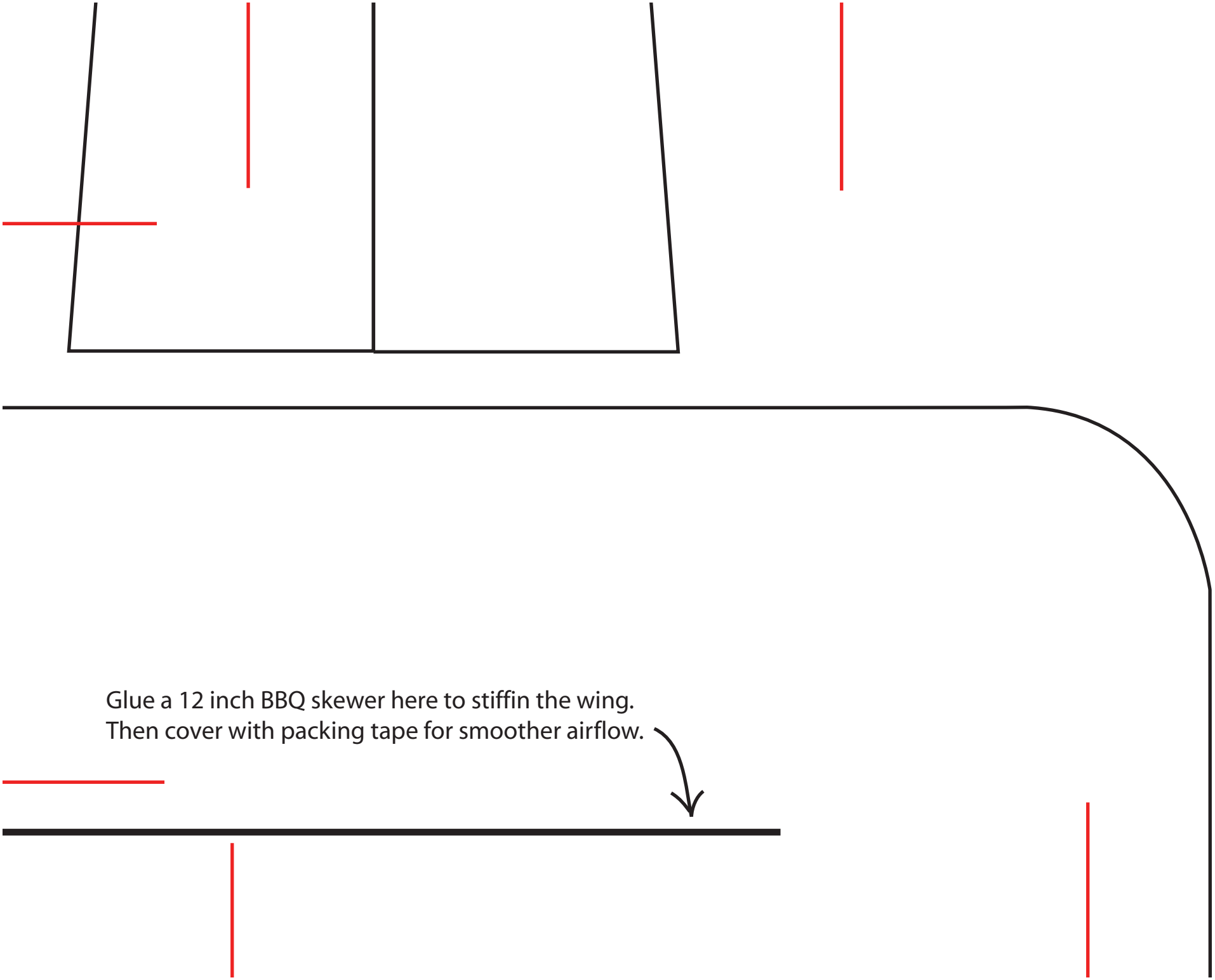


Tail boom supports.
These get glued on
the back of the wing,
and on top of the boom.



Do NOT Redistribute

The plane should balance when held here.


Glue a 12 inch BBQ skewer here to stiffin the wing.
Then cover with packing tape for smoother airflow.

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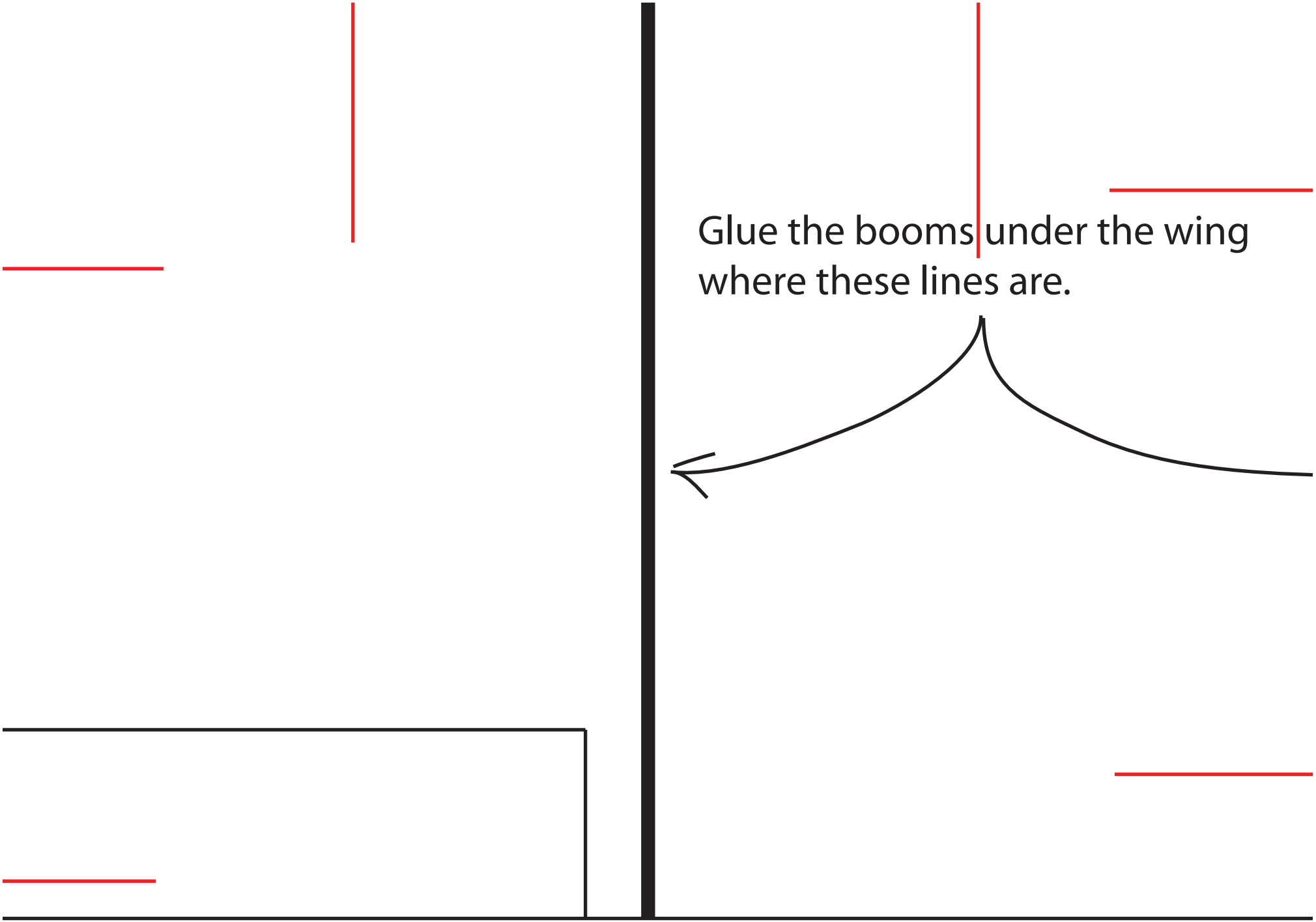
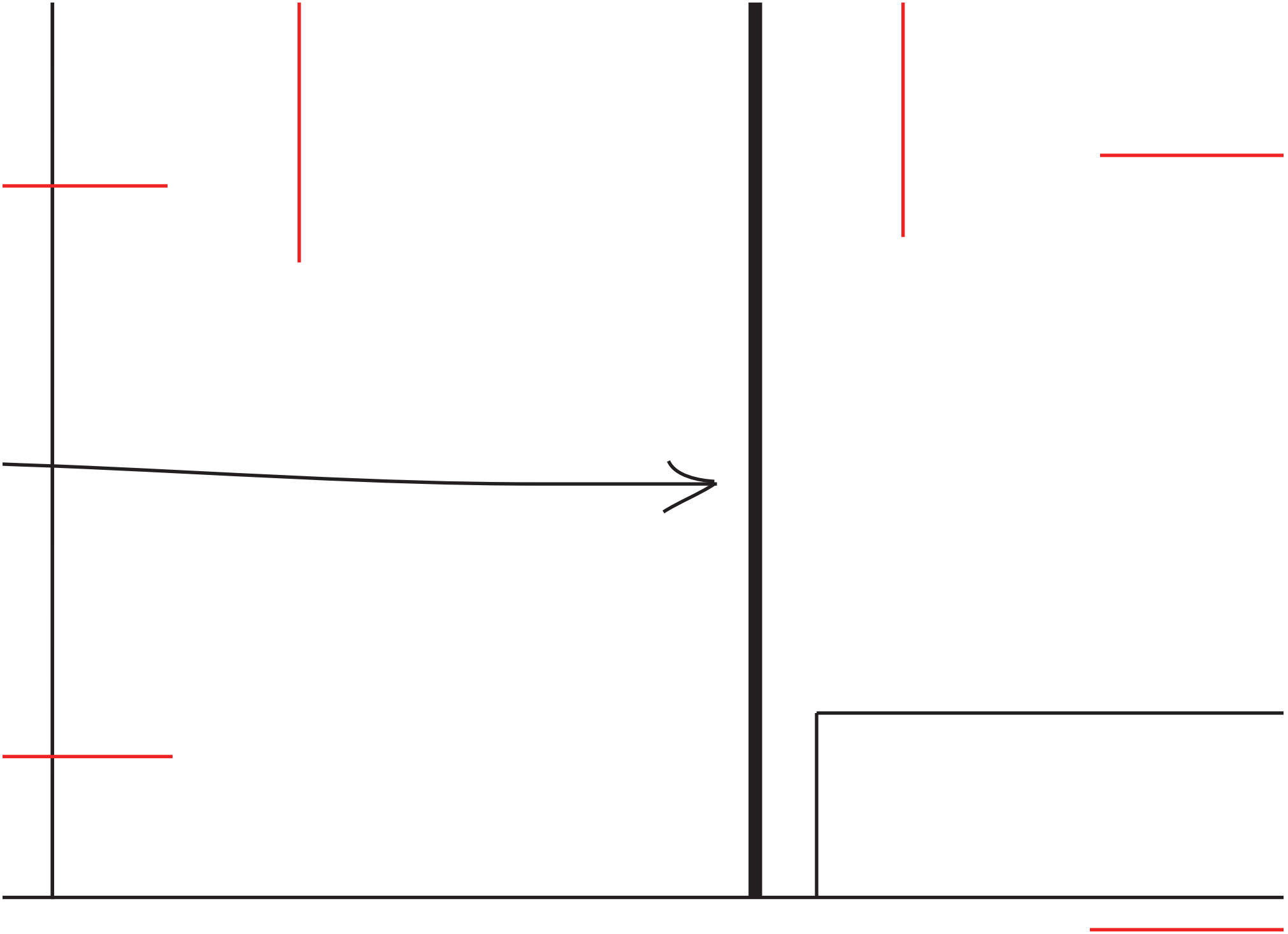
Set aileron deflection to about 1/2 inch up and 1/2 inch down measured at the back of the aileron.


Glue the booms under the wing
where these lines are.



Thanks for trying my plans!
I hope you have fun with them!
Please tell your friends about us!
Remember you can buy ALL the electronics for this plane at,
WWW . MIKEYSRC . COM

Set aileron deflection to about 1/2 inch up and 1/2 inch down measured at the back of the aileron.