

Building Manual for:

Big ViCK



www.vickmodels.com

Big ViCK

Wing span: 1.00m

Length: 75cm

Flying weight from: 115g

Airfoil: mh32

Controls: Rudder, elevator

CG.:60-65mm from leading edge

Recommended electronics:

Servos: 2x 2.2-3.7g

Small receiver, max size: 45x25x19mm

Battery: 1s 300mah lipo

Kit contents:

lasercutted wood parts, cnc
cutted wings and nose,
carbon parts and ect.

Required:

- Adhesives see below
- Packing tape for wing covering
- sanding block, tesa film, ruler,
clear tape, x-acto knife, scissors.

Befor you started to build please read the guide.

Glue mark:

Wooden glue



Epoxy



Normal CA.

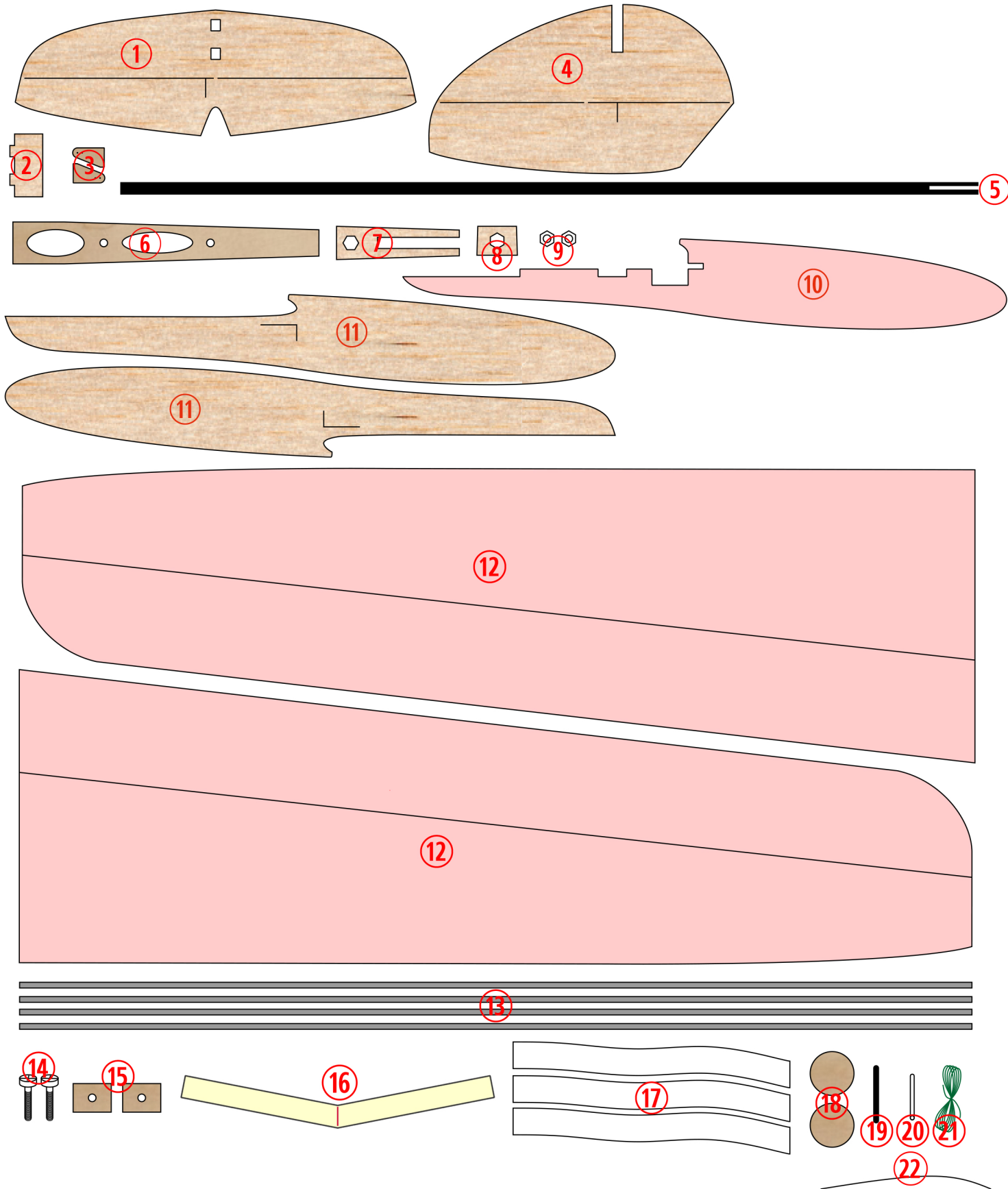


Foamsafe CA.



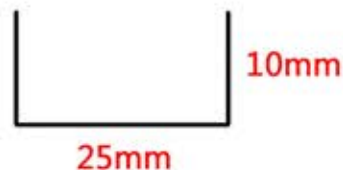
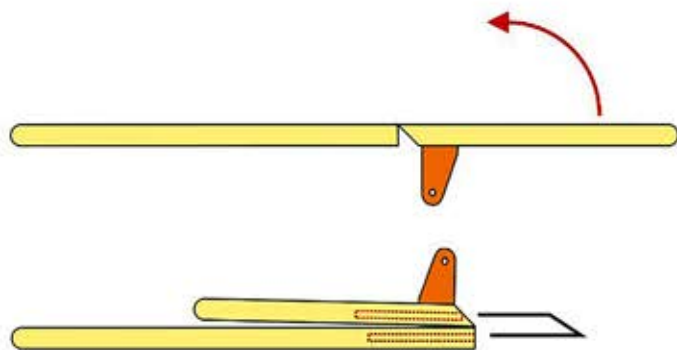
Big ViCK

parts list:

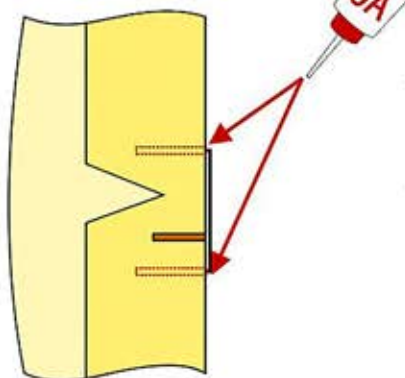
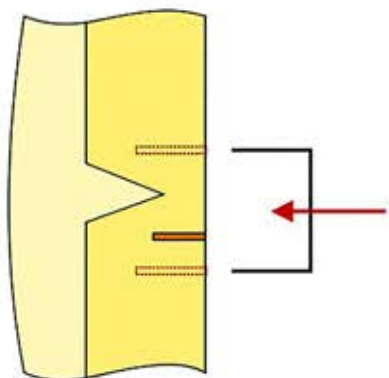
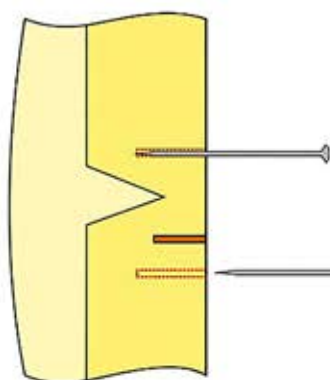


Pull-Spring Guide

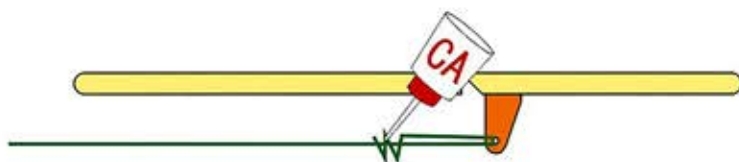
①④②②



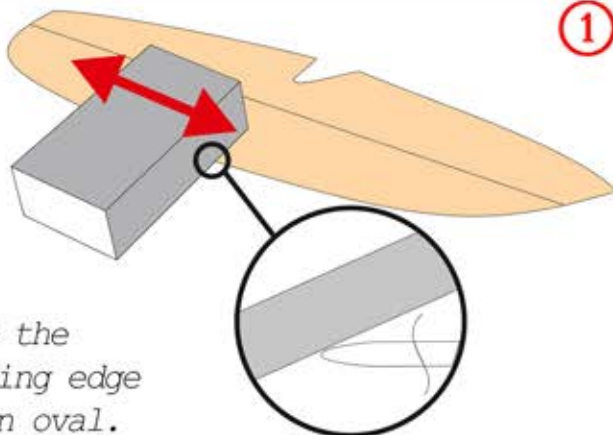
Bend it the 0.3mm spring wire



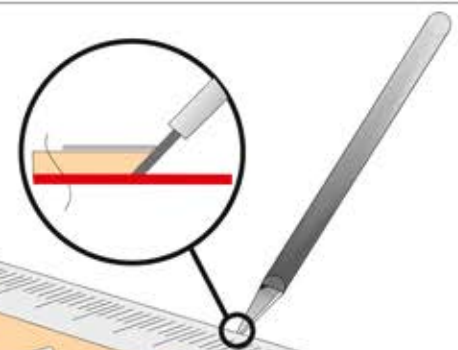
The rudder horn is placed on the opposite side of the launch peg. If you're a right hander, the rudder horn is installed on the right side of the rudder. The spring will deflect opposite the horn. Opposite the launch peg, cut a small amount of material at a 45° angle for the hinge. The springs are installed after sanding both the tail sections. Install the tape hinge and cut the excess off, c as well as around where the horn will be installed. Installed one side of the spring close to the horn as this will have extra glue for holding. Next measure where the other side of the spring will be and using pin, make a mark. Uninstall the first side. Install the second side where your mark is until it bottoms out as well. As you initially install the springs, pinching either side of the fin to make sure the wire does not poke through. You want the spring installed in the center of the material. After both holes have been made, insert both into their respective holes at the same time until they bottom out. Add some ca, and you're done!. The servos will pull opposite the springs when installed and strings installed.



①

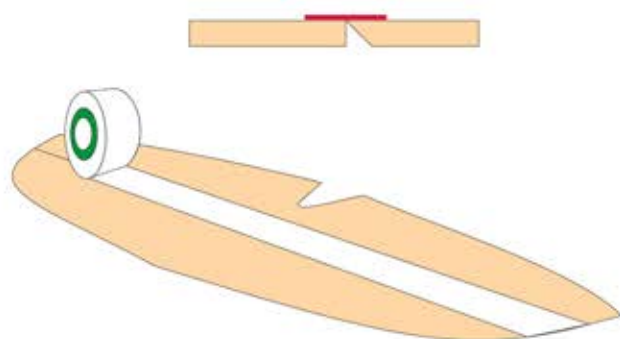


Sand the leading edge to an oval.
Sand the trailing edge to be sharp.

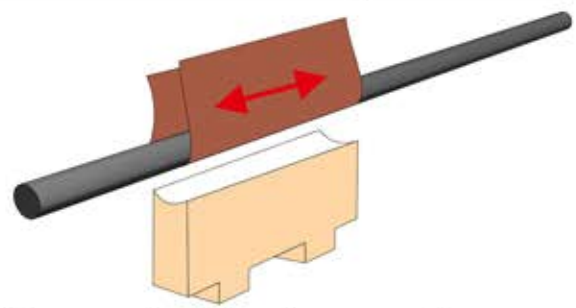


Cut the elevator free.
Bevel the front to 45 degrees.

②

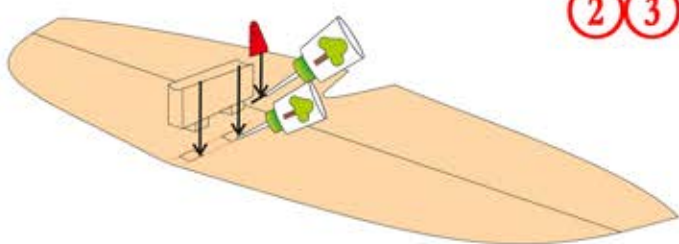


Use clear tape for hinge.
Easy and light.



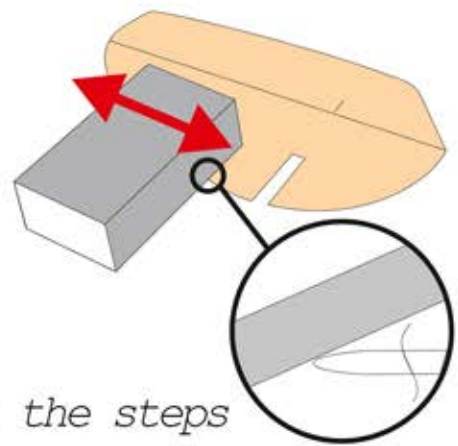
Sanding out the boom place.
Important: The block lower and upper edges are parallel after the sanding!

② ③

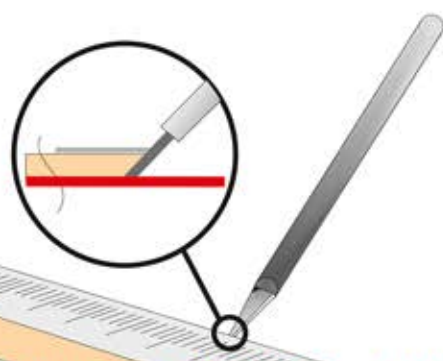


Glue the control horn and the stab. holder.

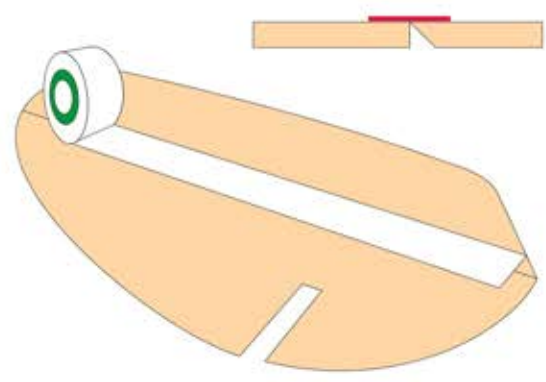
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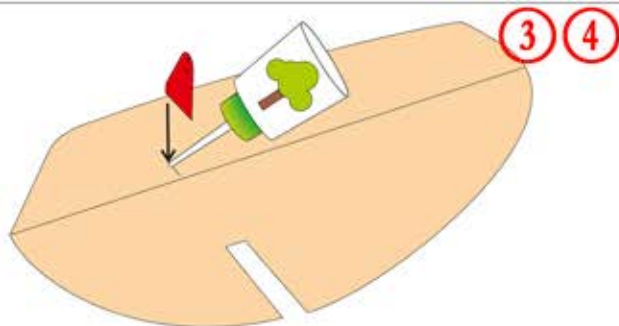


Repeat the steps on the vertical stab.



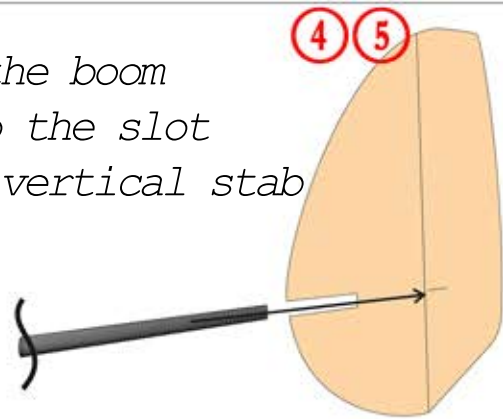
Before cut, please read the pull-spring guide!





When finished them,
install the springs. Please
follow the pull-spring guide!

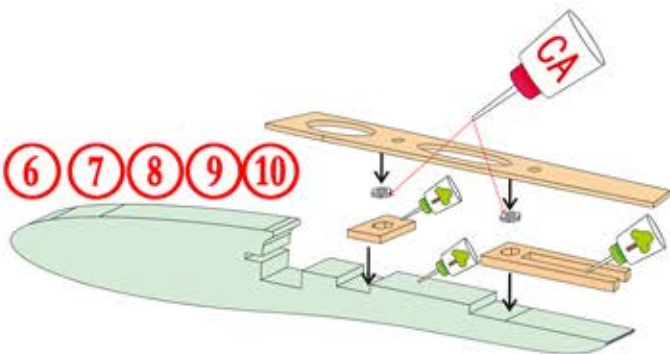
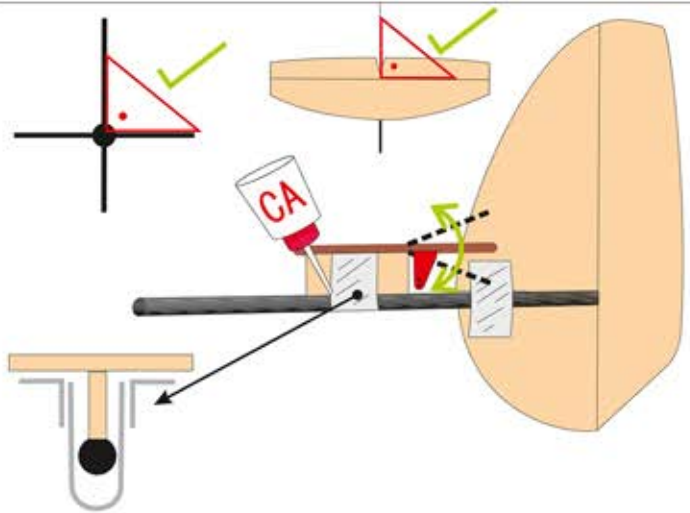
Slide the boom
into to the slot
in the vertical stab



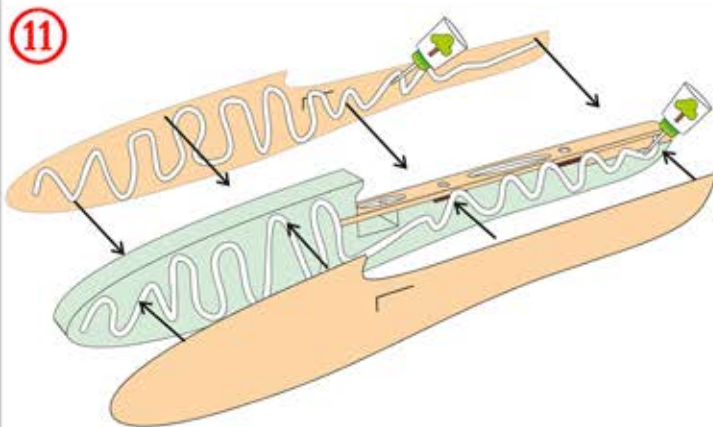
Use CA sparingly!



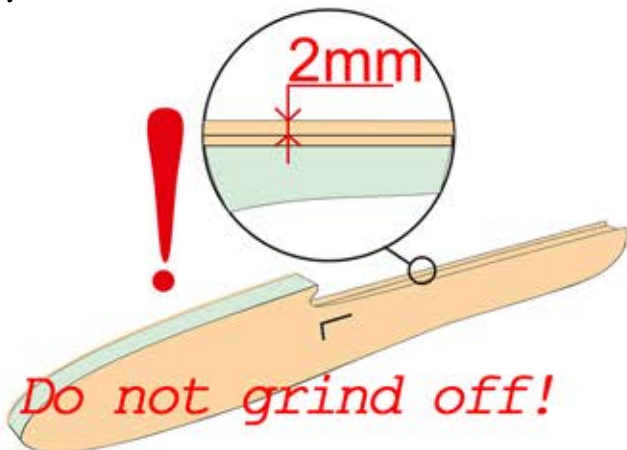
Any weight you add at
the rear will need 3X
more in the nose.



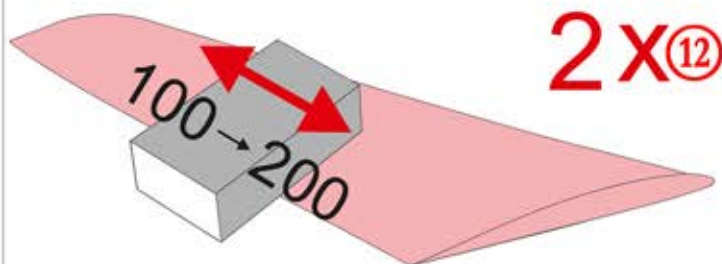
First glue the nut holders on to
the plywood wing holder plate.
Then CA the nuts in place.
Slide complete wing holder plate
into place the glue in with wood glue



Glue the balsa sides in place
with wood glue

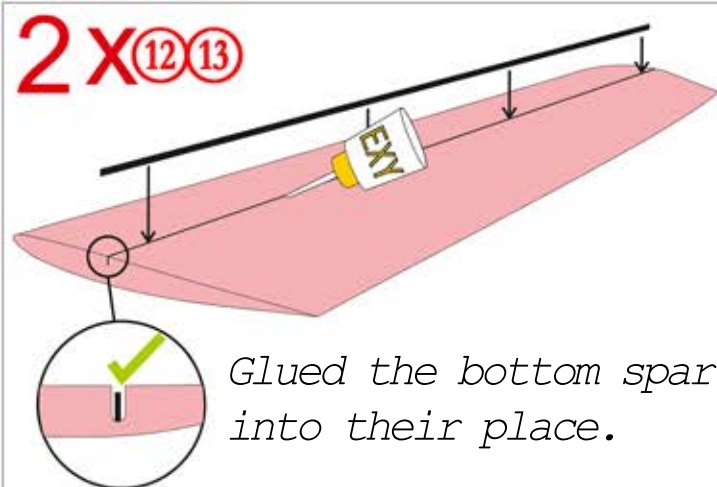


Do not grind off!

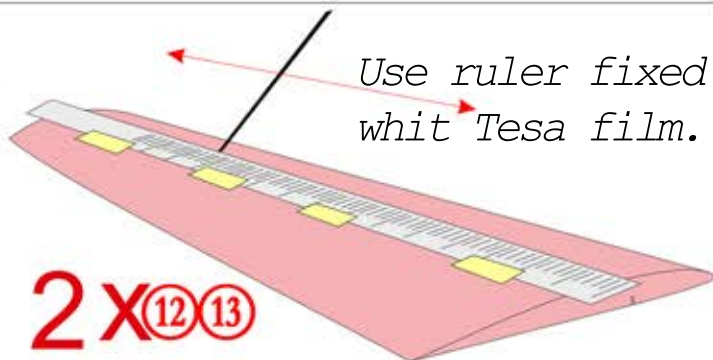


Prepare the wings for covering.
Sand all surfaces with a fine
sanding block. Please be
careful at the trailing edge.

2 X (12) (13)

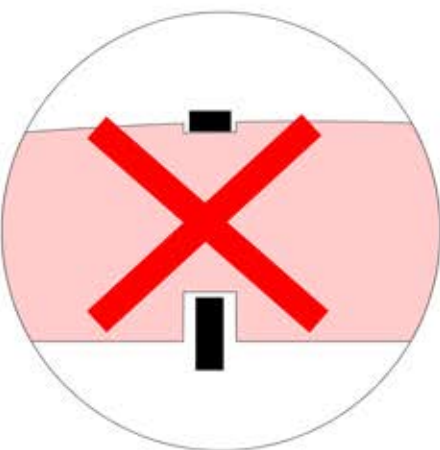
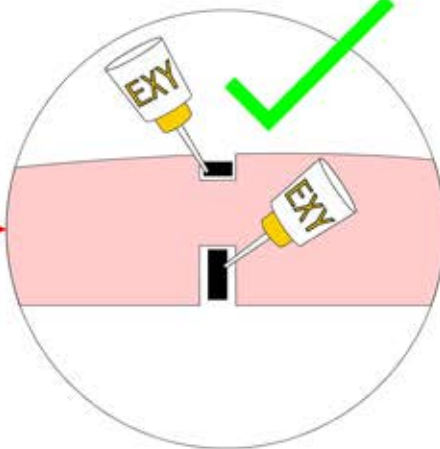
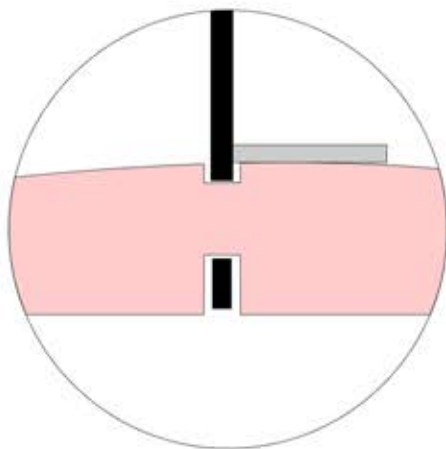


Glued the bottom spar into their place.

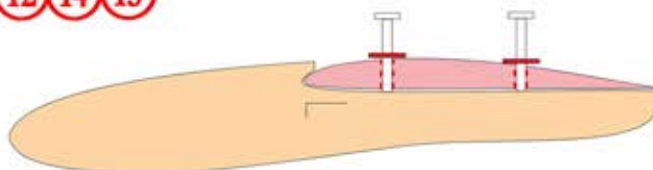


2 X (12) (13)

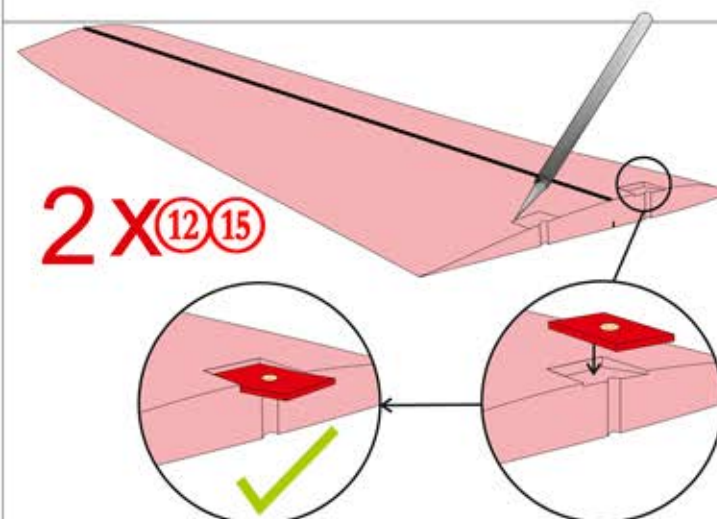
Prepare the upper spare place.
The location same at bottom spar.
Pull it out sometimes the end of the spar on the wing. Check the hole deep.



(12) (14) (15)



Locate one wing half correctly on the pod.
Mark the screw locations using a pen.
Use a round file to remove foam for the screws.
Similarly mark up the location of the plywood wing reinforcements. Cut rebates in the foam to locate the plywood pieces. Repeat this for the other wing, checking the second against the first.

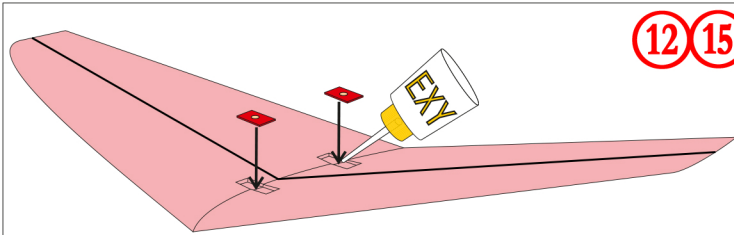


2 X (12) (15)



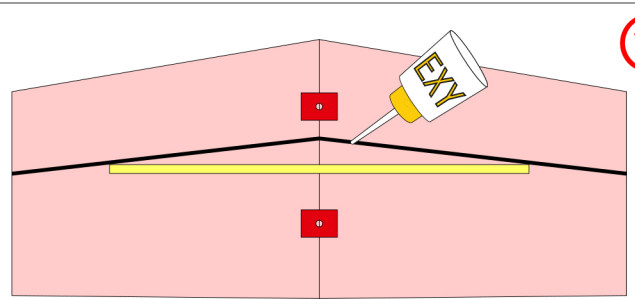
Joint the wings.
Use foamsafe Ca.

12 15



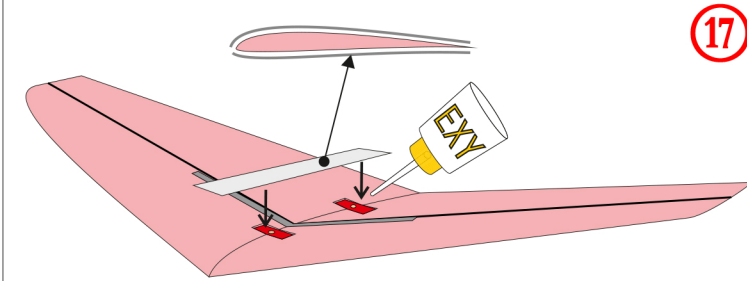
Install the plywood wing reinforcements.

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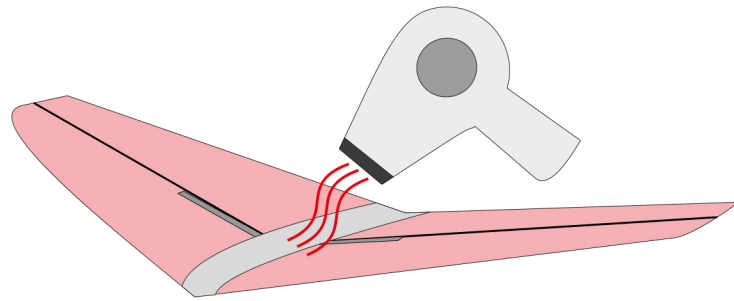


Install the plywood Main spar: cut it out the place with x-acto knife, glue in to the gap with epoxy.

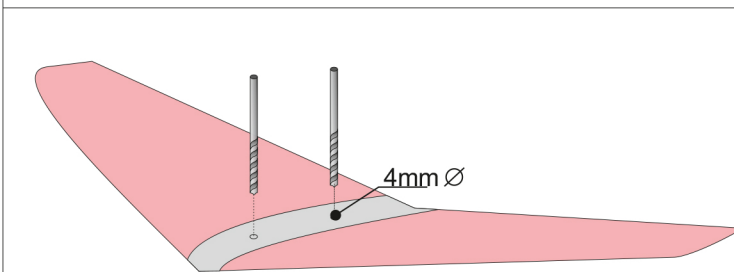
17



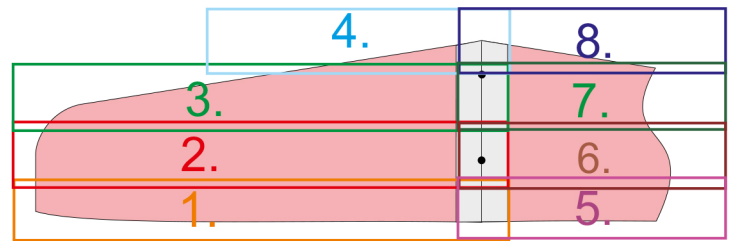
Install the fiberglass strips on to the top and bottom side.



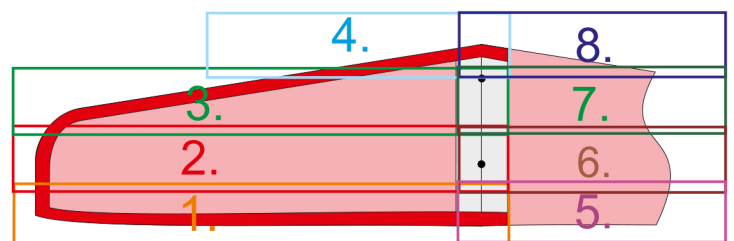
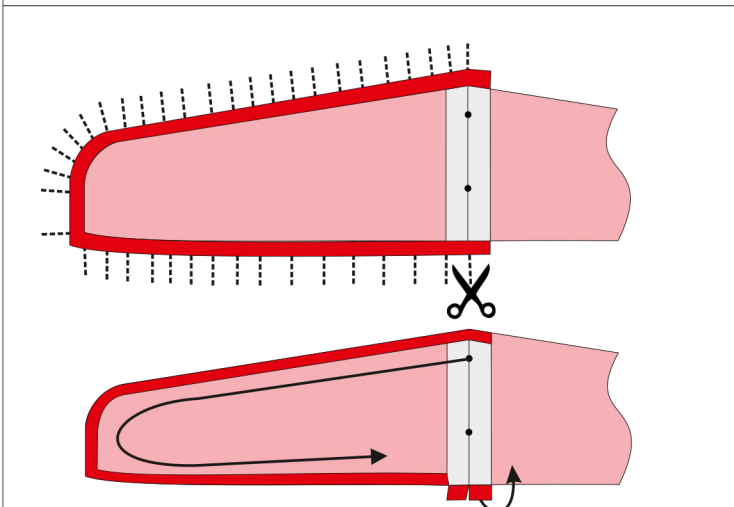
Heat them with hair dryer.



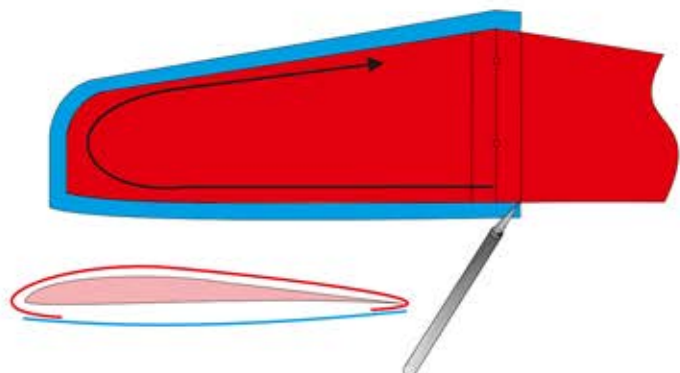
Drill holes for the wing mounting screws.



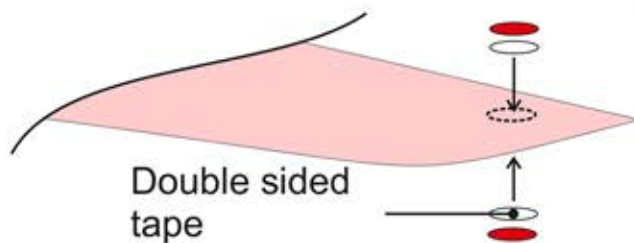
Wing covering: Use plain or colored packing tape. Start on the upper side. Follow the numbers.



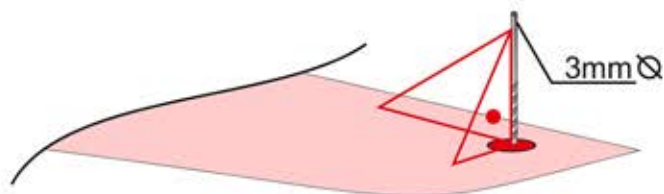
Next step covering the bottom side. Follow the numbers.



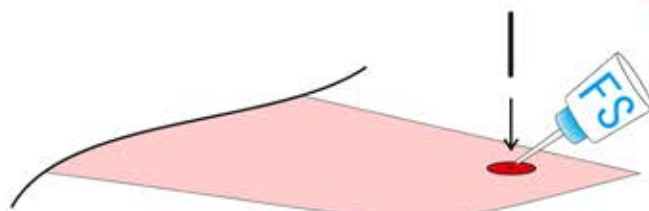
Cut it off the surplus tape. Don't fold up the bottom tape over the leading edge!



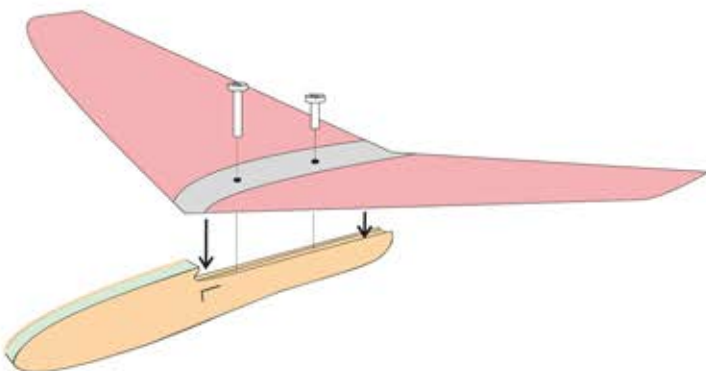
Glue up the two pieces plywood disks on your launch arm side.



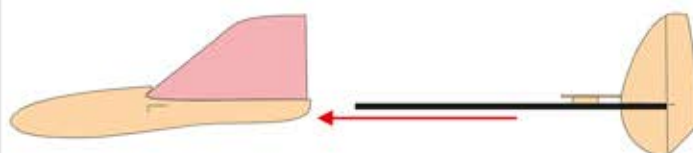
Drill a 3mm hold for the launch peg.



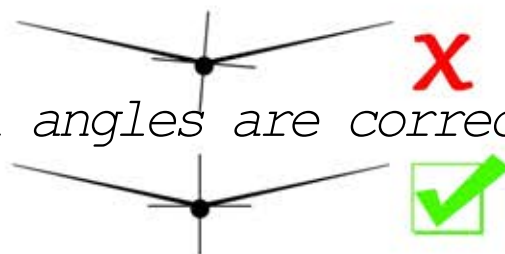
Glue in to the 3mm carbon rod peg with foamsafe CA.



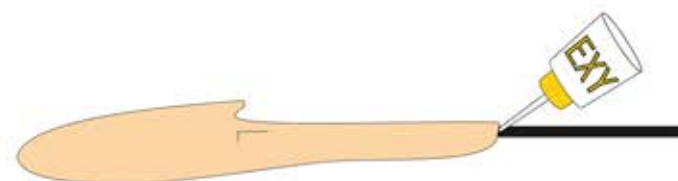
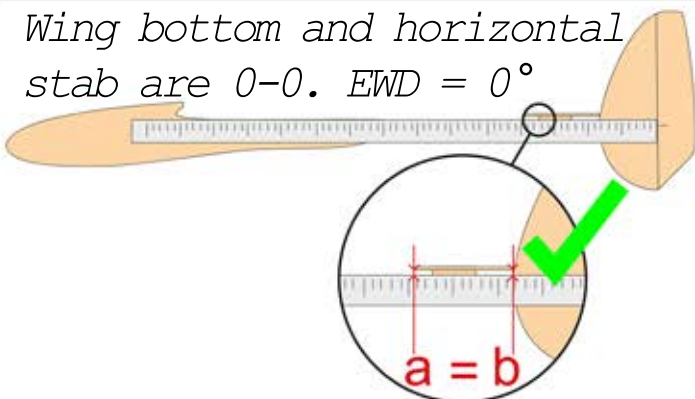
Place the wing on to the nose



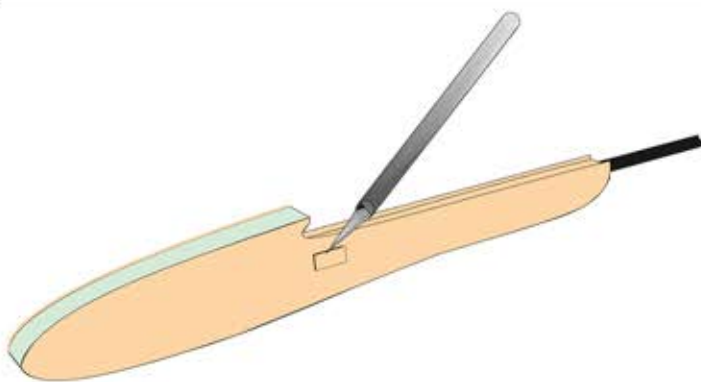
Assemble model and check all angles are correct.



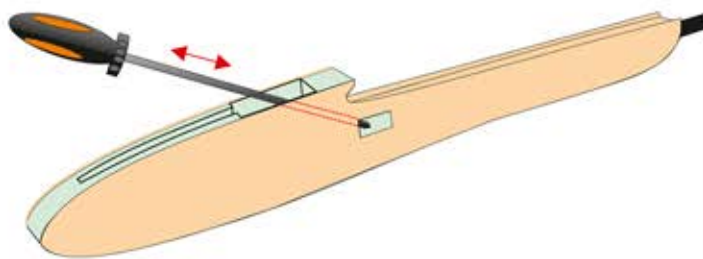
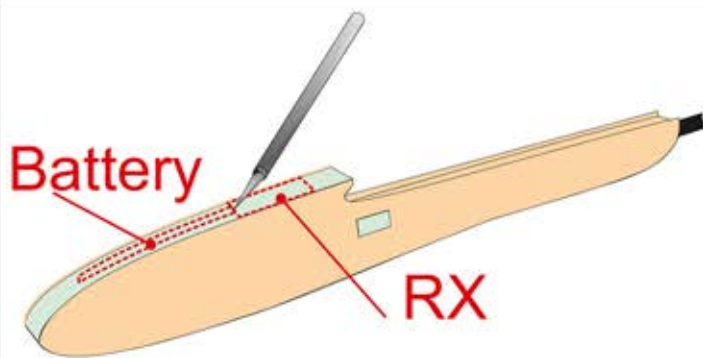
Wing bottom and horizontal stab are 0-0. $EWD = 0^\circ$



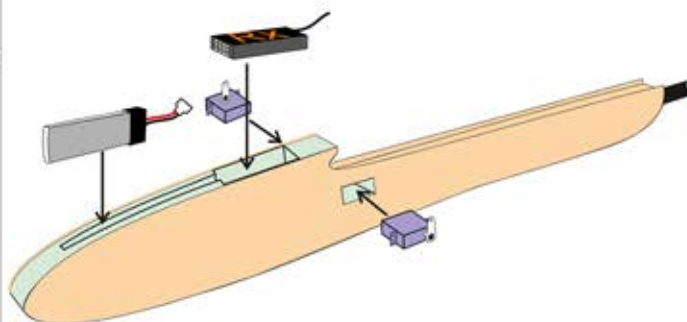
If all correct fix them with epoxy.



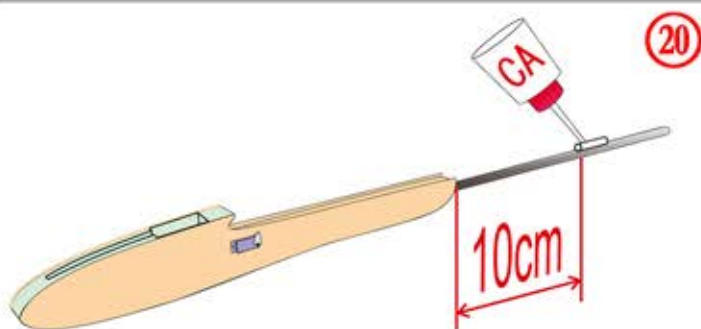
Cut out pockets for the servos, battery and receiver.



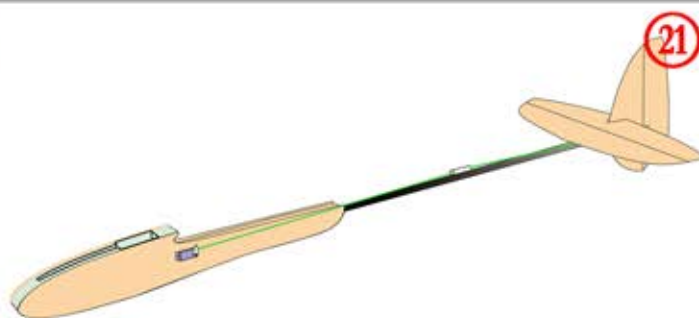
Carve out channels for the cables.



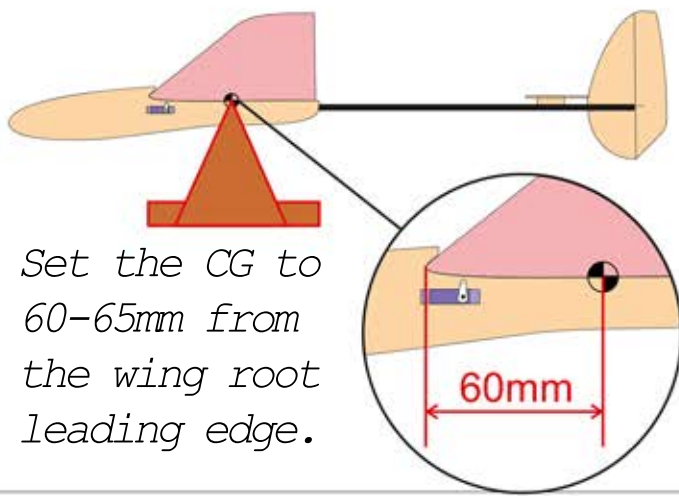
Install the electronics.



Glue the nylon tube (cut the length 10mm) 10cm behind the pod.



Install the control lines in to the servos and control horns between.



Set the CG to 60-65mm from the wing root leading edge.

Go to fly!