

# Building Manual for:

## *Mini ViCK*



[www.vickmodels.com](http://www.vickmodels.com)

## Mini ViCK

**Wing span: 75.5cm**

**Length: 60cm**

**Flying weight from: 90g**

**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 150-300mah lipo**

**Kit contents:**

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

**Required:**

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

**Befor you start to build please read the guide.**

**Glue mark:**

**Wooden glue**



**Epoxy**



**Normal CA.**



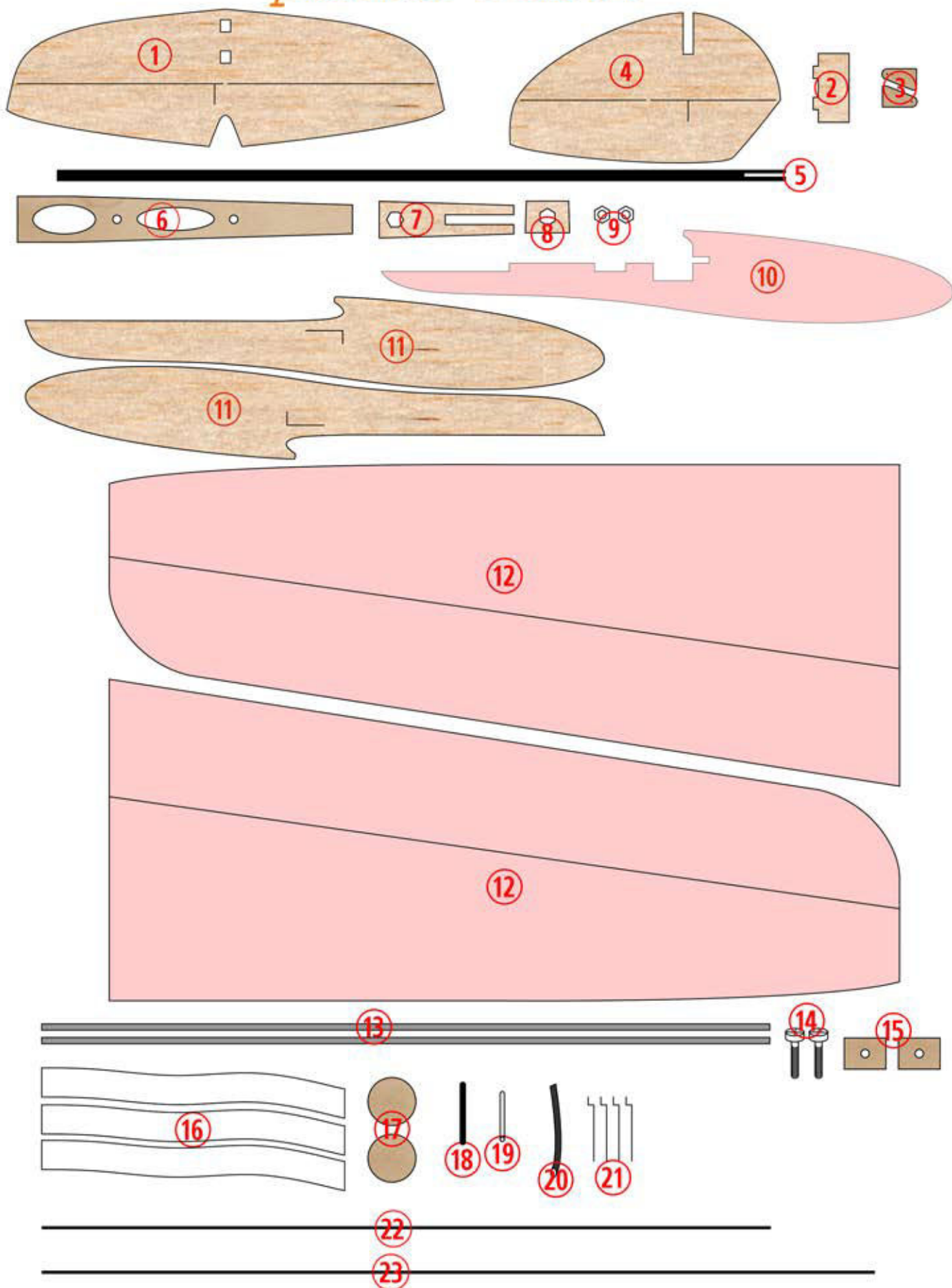
**Foamsafe CA.**



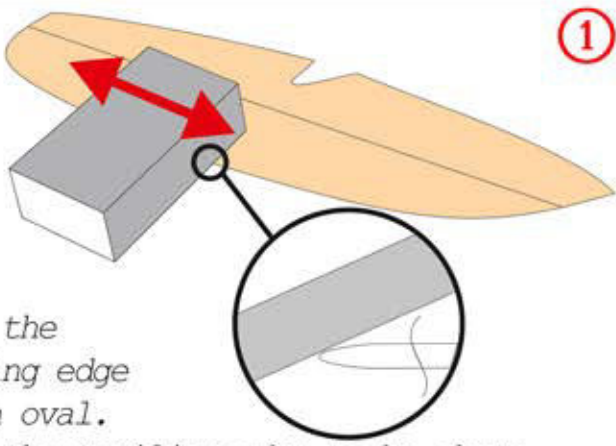


# Mini ViCK

## parts list:



①

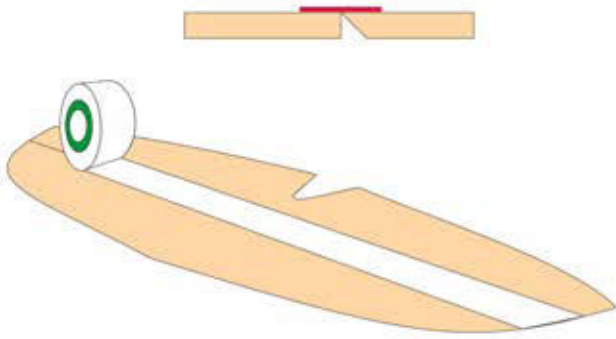


Sand the leading edge to an oval.  
Sand the trailing edge to be sharp.

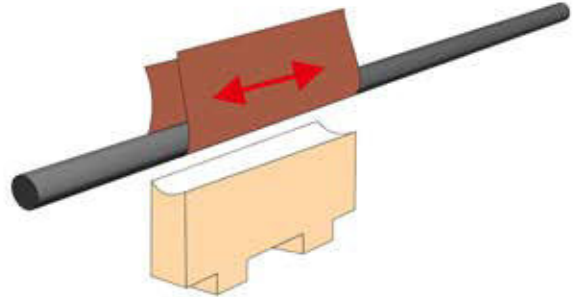


Cut the elevator free.  
Bevel the front to 45 degrees.

②

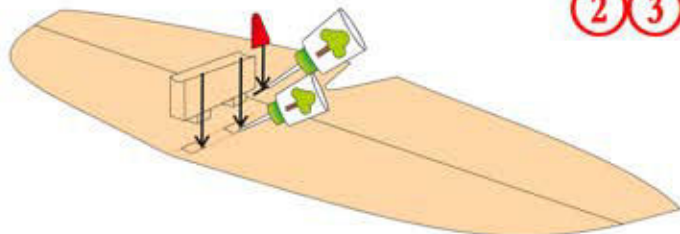


Use clear tape for hinge.  
Easy and light.



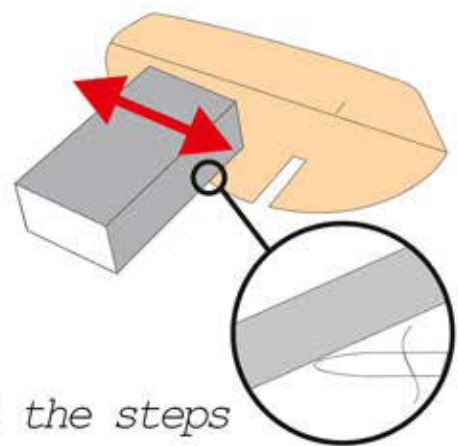
Sanding out the boom place.  
Important: The block lower and upper edges are parallel after the sanding!

② ③

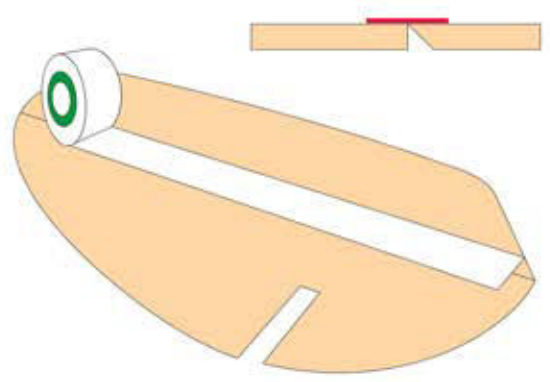


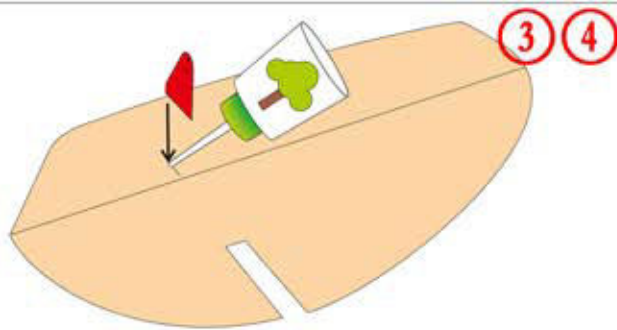
Glue the control horn and the stabiliser holder.

④

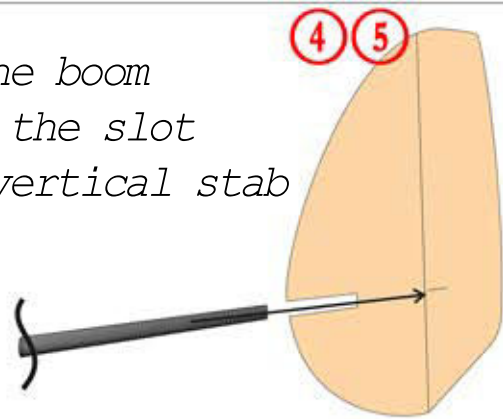


Repeat the steps on the vertical stab.





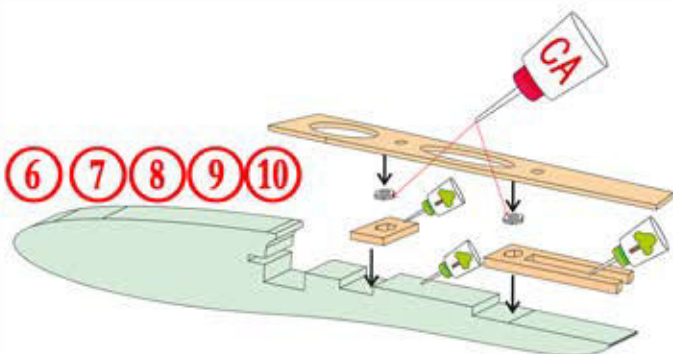
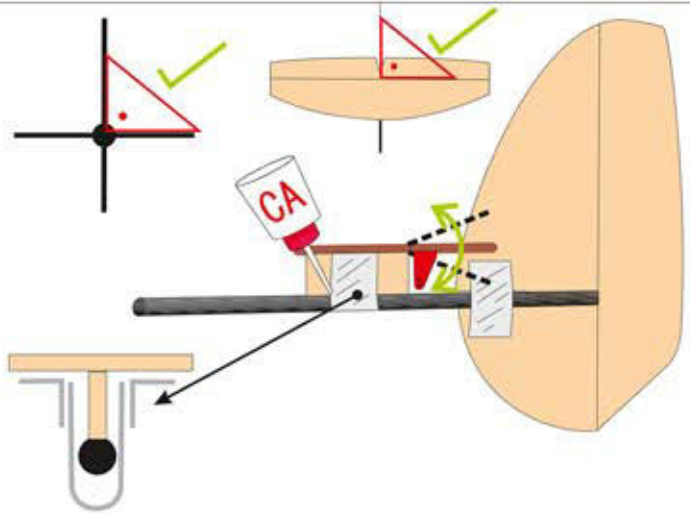
Slide the boom into to the slot in the vertical stab



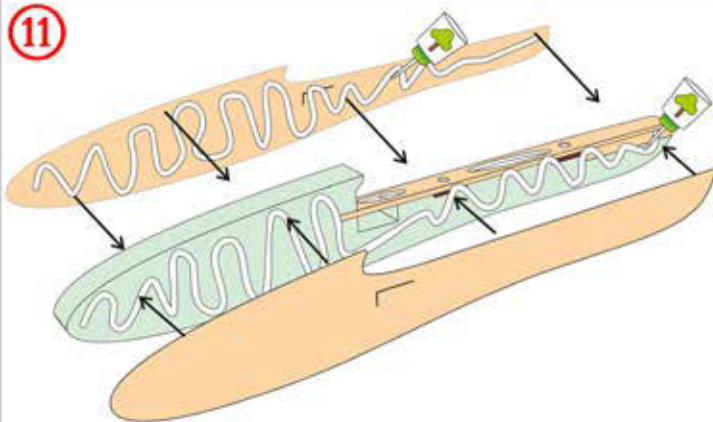
Use CA sparingly!



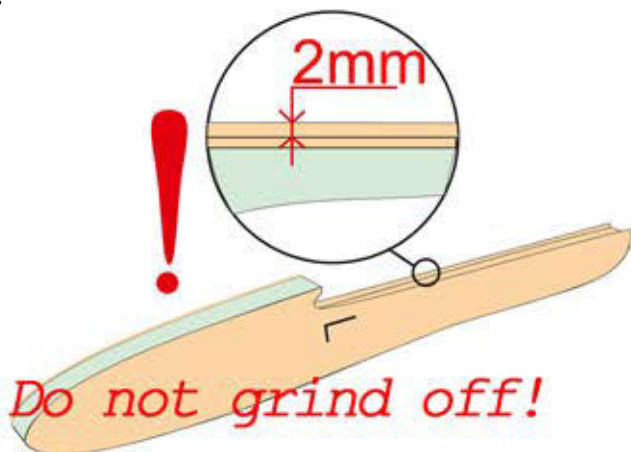
Any weight you add at the rear will need 3X more in the nose.



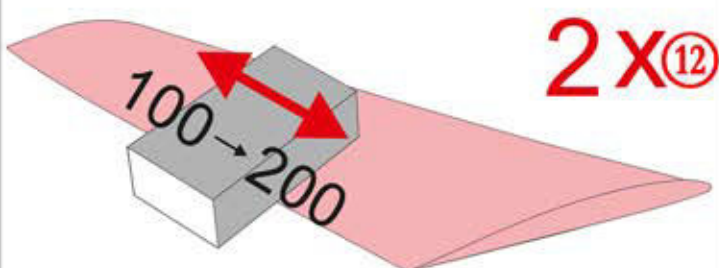
First glue the nut holders on to the plywood wing holder plate. Then CA the nuts in place. Slide complete wing holder plate into place the glue in with wood glue



Glue the balsa sides in place with wood glue



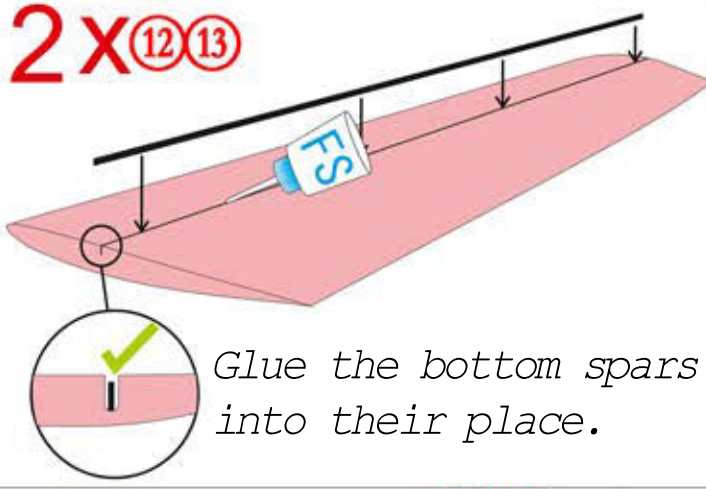
Do not grind off!



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

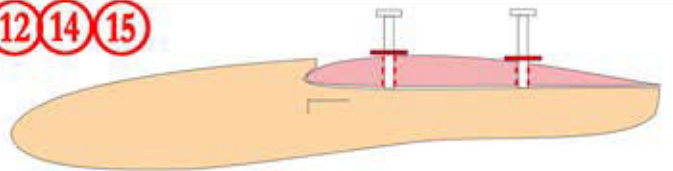


2x (12) (13)



Glue the bottom spars into their place.

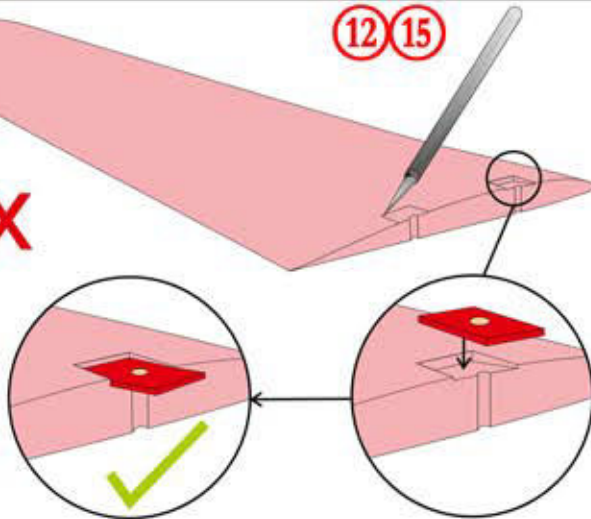
(12) (14) (15)



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.

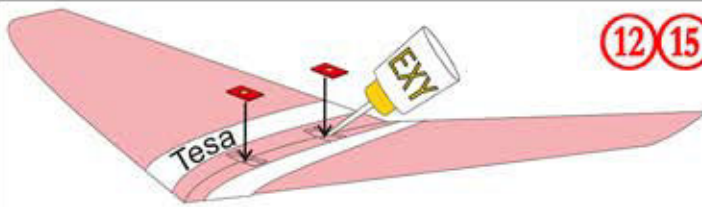
2x

(12) (15)



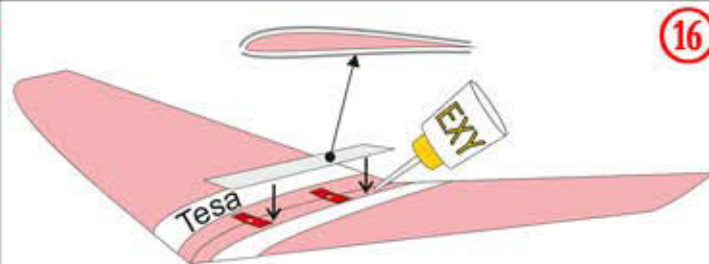
Joint the wings.  
Use foam safe CA.

(12) (15)

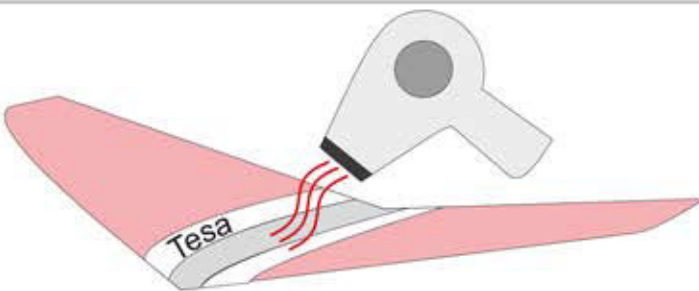


Install the plywood wing reinforcements.

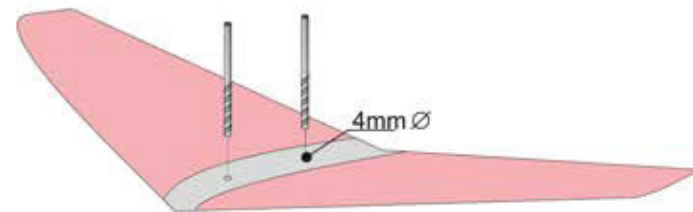
(16)



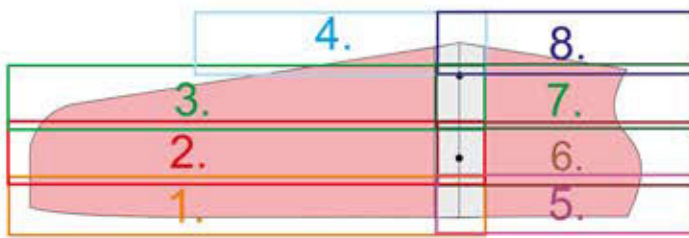
Install the fiberglass strips on to the top and bottom side.



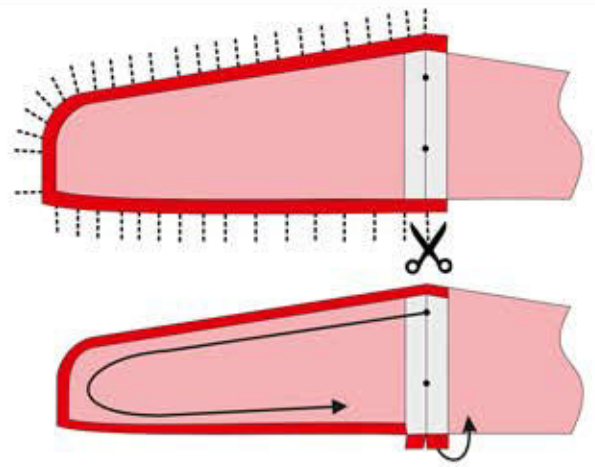
Heat them with a hair dryer.



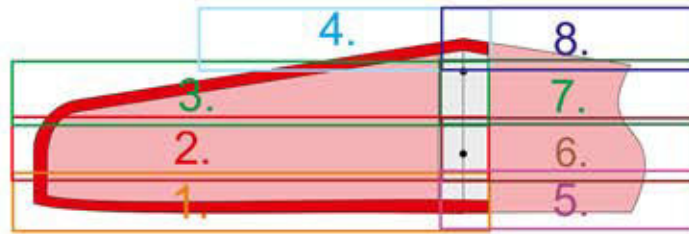
Drill holes for the wing mounting screws.



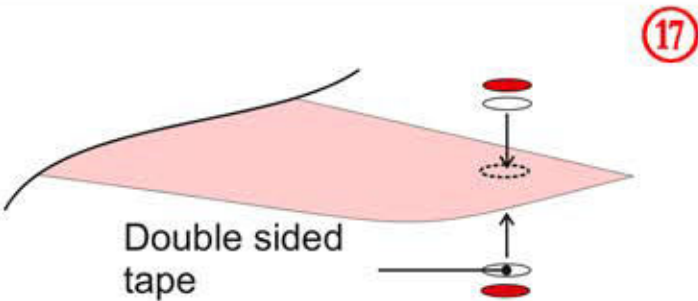
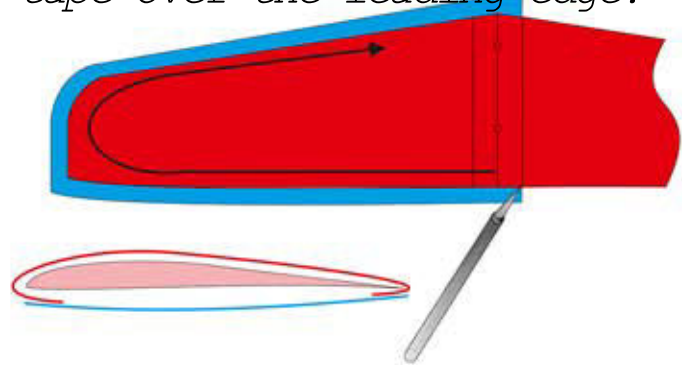
*Wing covering: Use plain or colored packing tape. Start on the upper side. Follow the numbers.*



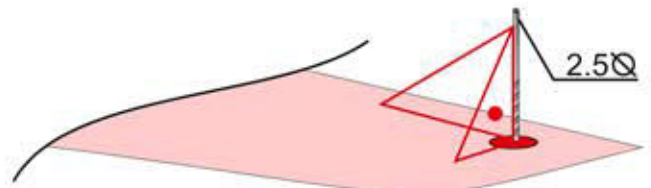
*Cut it off the surplus tape. Don't fold up the bottom tape over the leading edge!*



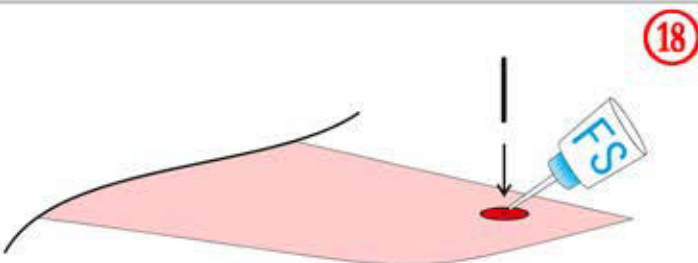
*Next step covering the bottom side. Follow the numbers.*



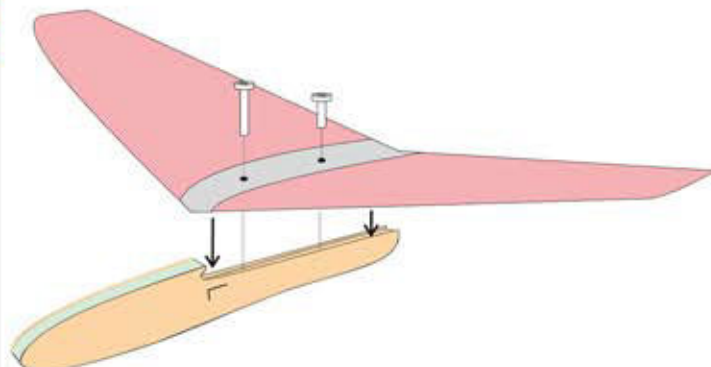
*Glue up the two pieces plywood disks on your launch arm side.*



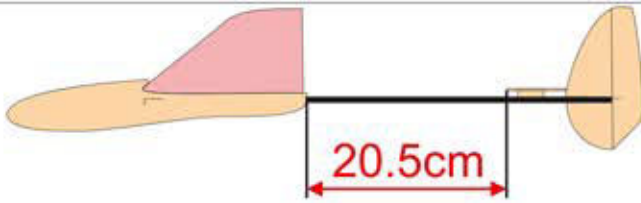
*Drill a 2.5mm hold for the launch peg.*



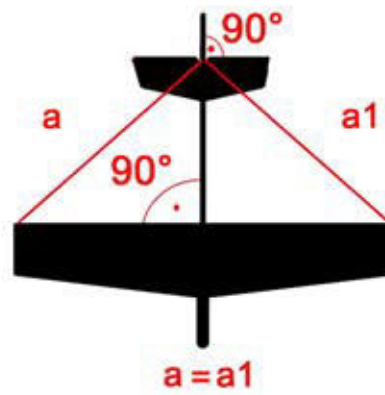
*Glue in to the 2.5mm carbon rod peg with foamsafe CA.*



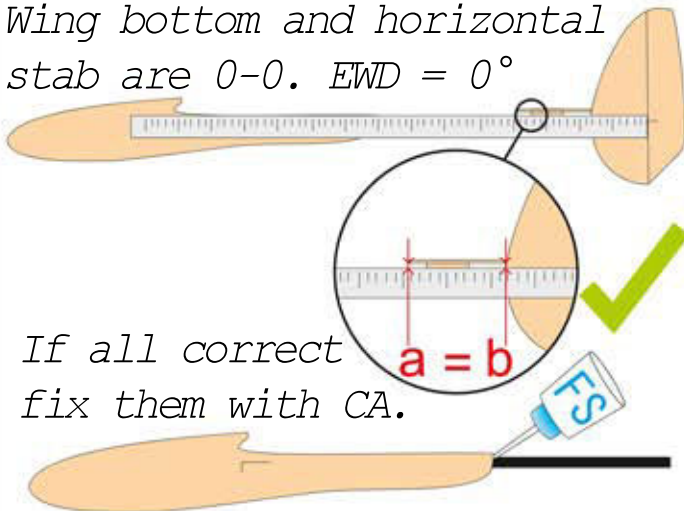
*Place the wing on to the nose*



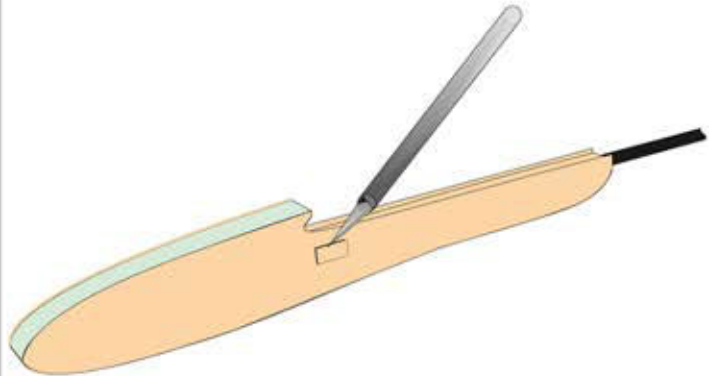
Assemble model and check  
all angles are correct. **X**



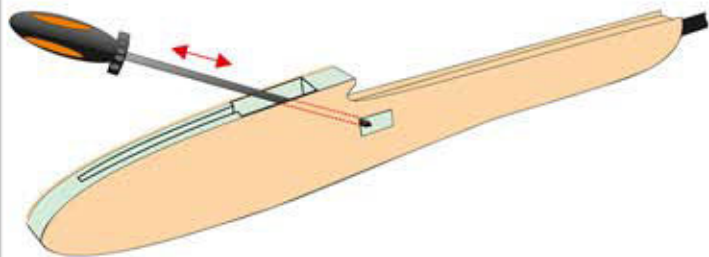
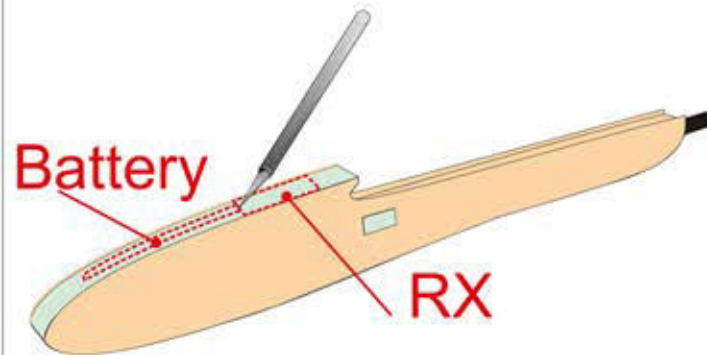
Wing bottom and horizontal  
stab are 0-0. EWD = 0°



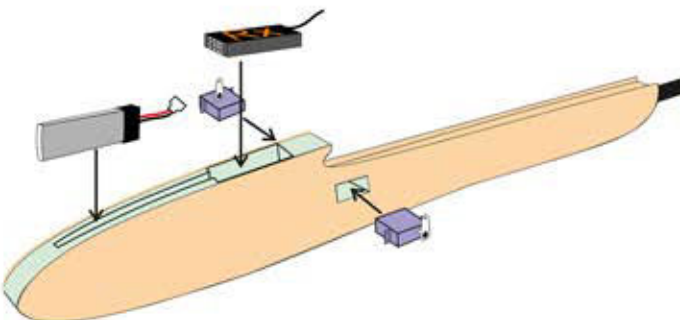
If all correct  
fix them with CA.



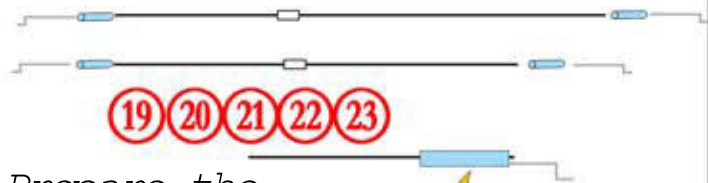
Cut out pockets for the servos,  
battery and receiver.



Carve out channels  
for the cables.



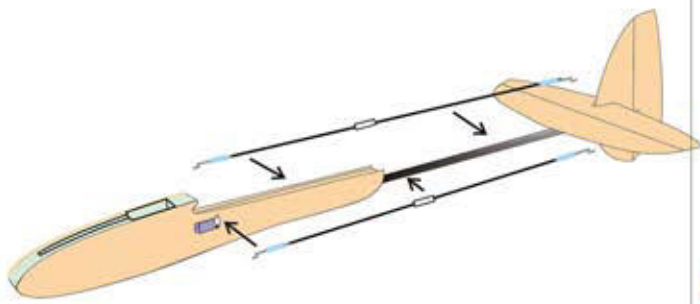
Install the electronics.



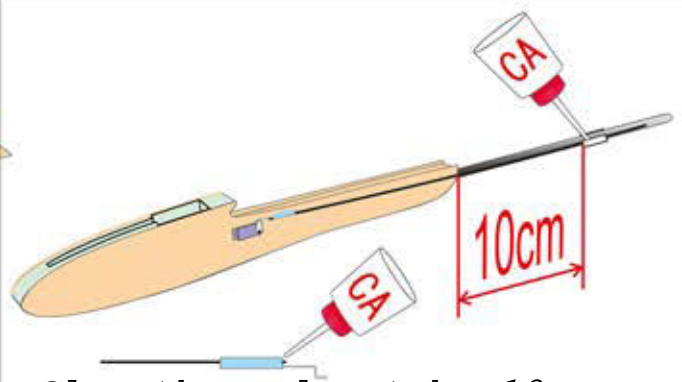
Prepare the  
control linkages.



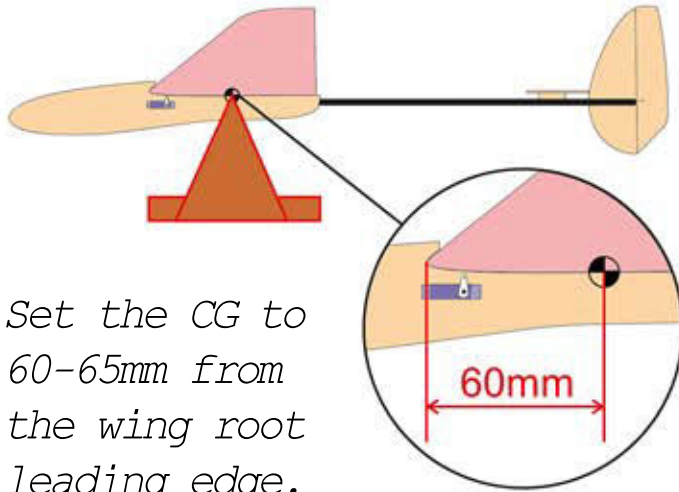




*Connect the control rods to the servos and control horns.*



*Glue the nylon tube 10cm behind the pod to stop the pushrod bowing.*



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

*Go fly!*