

Make A Value For Money DLG

Foam Wing DLG - Not Foamboard.

So, you don't want to mess around with Foamboard or don't have it available locally ?

Can you find XPS Foan sheet or boards at your DIY Store or Supplier ?

As a second best, perhaps your local flat pack furniture or other goods supplier gets loads of EPS in protected product. The just dump the stuff as it is unwanted waste.

So, we want a wing? A wing good for DLG. Perhaps not a high launching DLG, but a fun glider that is very quick, cheap and easy to make.

Perhaps we don't want to be carbon fibre or glass fibre laminating or laborious balsa plank planning and sanding ?

Useful facts :- XPS foam is 1/3 the weight of contest grade balsa. EPS is between ¼ and 1/5 the weight of contest grade balsa.

So, using a foam core base material leaves plenty of room for strengthening and still comes out light. Also the creation process is readily repeatable and quick once you make your first one.

So lets select an airfoil that will work well on a DLG.

AG03 (flat aft bottom)

<http://airfoiltools.com/airfoil/details?airfoil=ag03-il>

MH 32 8.7% - Martin Hepperle MH 32

<http://airfoiltools.com/airfoil/details?airfoil=mh32-il>

AG24 Bubble Dancer DLG by Mark Drela

<http://airfoiltools.com/airfoil/details?airfoil=ag24-il>

AG45c -03f - Drela AG45c -03f airfoil

<http://airfoiltools.com/airfoil/details?airfoil=ag45c03-il>

Strengthening the wing:-

It is little known that Bamboo is close to carbon fibre for strength. So good for wing spars, Leading Edges and trailing edge stiffening.

You may want to use carbon fibre as shown in the images.

Carbon Arrow shafts are also very strong and may be very reasonable to obtain.

Some builders use a wooden dowel where availability is an issue.

Our Facebook Group features ALL these matters in our postings.

Generating the Airfoil: -

How I Make Airfoil Wings | For Beginners

<https://youtu.be/aJain3h7sC8>

Airfoil foam cutting

<https://youtu.be/SFPbkV-84uc>

How to make a F3k DLG glider . Foam Wing Core Cuts /Join

<https://youtu.be/Do-54JbIIJE>

Hotwire demonstration

https://youtu.be/R0ZCnR_g6ZU

Scratch build DLG glider -How to make foam wing cores-

https://youtu.be/9Tv_y47E8zc?list=PL8X9pdN8AB3aLtYVxM_yYcCUrjuvPSuU

Easy to build and very successful :-

Translated:-

Part 2: Parts and Materials

<https://youtu.be/Dpkelf2xd3Q>

Part 3: Attaching the Screw Holders

<https://youtu.be/5v2-gIbO444>

Part 4: Gluing in the Nuts

https://youtu.be/K0u5HjT_dJo

Part 5: Gluing in the Mounting Plate

<https://youtu.be/c9w3acpbNq0>

Part 6: Cutting the Cable Channel

https://youtu.be/O5_QqabKCYQ

Part 7: Gluing the Side Panels

<https://youtu.be/jBe0LeUDcgk>

Part 8: Inserting the Tail Boom and Rounding the Edges

<https://youtu.be/ldooJRiU2c0>

Part 9: Fitting the Electronics

<https://youtu.be/RpiwCn0aN6g>

Part 10: Covering the Nose Block

<https://youtu.be/C4BbJiLRCH8>

Part 11: Introduction to the Pull-Spring System

<https://youtu.be/7H3Rd2GWiqY>

Part 12: Preparing the Tail Surfaces

<https://youtu.be/21pcUKL1sqU>

Part 13: Creating the Hinge Line

<https://youtu.be/7VZcYecHHrl>

Part 14: Hinging the Control Surfaces

<https://youtu.be/QB6MywMqlls>

Part 15: Gluing in the Control Horns

<https://youtu.be/WvLlgsuBTW4>

Part 16: Torsion Spring

<https://youtu.be/Z8ivu9w7Wj8>

Part 17: Gluing the Tail Surfaces

<https://youtu.be/XdMVld-5SrA>

Part 18: Sanding the Foam Core

<https://youtu.be/IP-yytAvbdw>

Part 19: Preparing the Carbon Plate Slots

<https://youtu.be/euZwH1i Xqs>

Part 20: Shaping the Launch Peg Support Disc

<https://youtu.be/EqA9r5pdOG8>

Part 21: Gluing in the Carbon Plates

<https://youtu.be/1oGf6e-rNz8>

Part 22: Shaping the Screw Supports

<https://youtu.be/j0PvZrTp 1s>

Part 23: Joining the Wing Halves

<https://youtu.be/vqYAc4Ao4tA>

Part 24: Wing Root Reinforcement and Gluing in the Launch Peg Support

<https://youtu.be/aqhbr76f700>

Part 25: Applying the Fiberglass Cloth

<https://youtu.be/pEX2n6SKo3E>

Part 26: Cutting the Screws to Length and Drilling the Launch Peg Hole

<https://youtu.be/CRaaZlOdAPI>

Part 27: Preparing for Covering

<https://youtu.be/1NLrylp7CWk>

Part 28: Covering the Wing

<https://youtu.be/1WPYZ -omss>

Part 29: Gluing the Tail Boom into the Nose Block

<https://youtu.be/x1vBYyko2M8>

Part 30: Basics of Radio Control

<https://youtu.be/L mJjVTOhwY>

Part 31: Setting Up the Radio Transmitter

<https://youtu.be/qTgK9E04dxw>

Part 32: Installing the Electronics in the Fuselage

<https://youtu.be/NtZcWdZUW6o>

Part 33: Gluing the Launch Peg into the Wing

https://youtu.be/kNmV_Wcp0Ok

Part 34: Balancing the Wing

<https://youtu.be/Z35EKhmdtLU>

Part 35: Setting the Center of Gravity

<https://youtu.be/JZiy54wNbdK>

Part 36: Test Flying the Model

https://youtu.be/RHNDvluOl_c

Original:-

Part 2: Alkatrészek kellékek

<https://youtu.be/Dpkelf2xd3Q>

Part 3: Csavartartók felragasztása

<https://youtu.be/5v2-gIbO444>

Part 4: Anyák beragasztása

https://youtu.be/K0u5HjT_dJo

Part 5: Felfekvőlap beragasztása

<https://youtu.be/c9w3acpbNq0>

Part 6: Kábelcsatorna kivágása

https://youtu.be/O5_QqabKCYQ

Part 7: Az oldallapok felragasztása

<https://youtu.be/jBe0LeUDcgk>

Part 8: Farokcső behelyezése és az élek lekerekítése

<https://youtu.be/ldooJRiU2c0>

Part 9: Elektronika befaragása

<https://youtu.be/RpiwCn0aN6g>

Part 10: Orrtőke bevonása

<https://youtu.be/C4BbJiLRCH8>

Part 11: Pull-Spring ismertetése

<https://youtu.be/7H3Rd2GWiqY>

Part 12: A vezérsíkok előkészítése

<https://youtu.be/21pcUKL1sqU>

Part 13: Zsanérvonal kialakítása

<https://youtu.be/7VZcYecHHrl>

Part 14: Kormányfelületek zsanérozása

<https://youtu.be/QB6MywMqlls>

Part 15: Kormányemelők beragasztása

<https://youtu.be/WvLlgsuBTW4>

Part 16: Torziós rugó

<https://youtu.be/Z8ivu9w7Wj8>

Part 17: Vezérsíkok felragasztása

<https://youtu.be/XdMVIId-5SrA>

Part 18: Habmag csiszolás

<https://youtu.be/IP-yytAvbdw>

Part 19: Szénlapok helyének a kialakítása

https://youtu.be/euZwH1i_Xqs

Part 20: Dobótüske támasztókorong befaragása

<https://youtu.be/EqA9r5pdOG8>

Part 21: Szénlapok beragasztása

<https://youtu.be/1oGf6e-rNz8>

Part 22: Csavartámaszok befaragása

https://youtu.be/j0PvZrTp_1s

Part 23: Szárnyfelek összeragasztása

<https://youtu.be/vqYAc4Ao4tA>

Part 24: Szárnytömrevítés és a dobótüske támasz beragasztása

<https://youtu.be/aqhbr76f700>

Part 25: Üvegszövet felragasztása

<https://youtu.be/pEX2n6SKo3E>

Part 26: Csavarok méretre vágása és dobótüske furat

<https://youtu.be/CRaaZIOdAPI>

Part 27: Előkészületek a bevonáshoz

<https://youtu.be/1NLrylp7CWk>

Part 28: Szárny bevonása

<https://youtu.be/1WPYZ -omss>

Part 29: Farokcső beragasztása az orrtőkébe

<https://youtu.be/x1vBYko2M8>

Part 30: Rádióirányítás alapismeretei

https://youtu.be/L_mJvTOhwY

Part 31: Rádiótávírányító beüzemelése

<https://youtu.be/qTgK9E04dxw>

Part 32: Elektronika beszerelése a törzsbe

<https://youtu.be/NtZcWdZUW6o>

Part 33: Dobótüske beragasztása a szárnyba

https://youtu.be/kNmV_Wcp0Ok

Part 34: A szárny kiegyensúlyozása

<https://youtu.be/Z35EKhmdtLU>

Part 35: Súlypont beállítása

<https://youtu.be/JZiy54wNbDk>

Part 36: A modell berepülése

https://youtu.be/RHNDvluOI_c

More Detail:-

How to cover the wings

<https://youtu.be/P4VcvqFFbkc>

Big ViCK build up

<https://youtu.be/fueiq5gKiR4>

ViCK dlG final assembly

<https://youtu.be/-oVpfUHN3Ok>

ViCK DLG'S! NEW BigViCK's guide link in description! Wing cover

<https://youtu.be/BJef13Ghr5I>

VICK DLG'S! NEW BigViCK's guide link in description! wing build

https://youtu.be/H1pthY_RvF8

VICK DLG'S! NEW BigViCK's guide link in description! tail build

<https://youtu.be/rkbZPs7A-oU>

VICK DLG'S! NEW BigViCK's guide link in description! pod build

<https://youtu.be/Xc-n9n4lZ7s>

[ViCK Orrtőke erősítés](#)

<https://youtu.be/1sZkLyPRuJM>

[Big ViCK 1meter DLG](#)

<https://www.youtube.com/watch?v=jSvDM9fAmK8>

Images :-

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.

Before you started to build please read the guide.

Glue mark:

Wooden glue



Epoxy



Normal CA.



Foamsafe CA.



Big ViCK

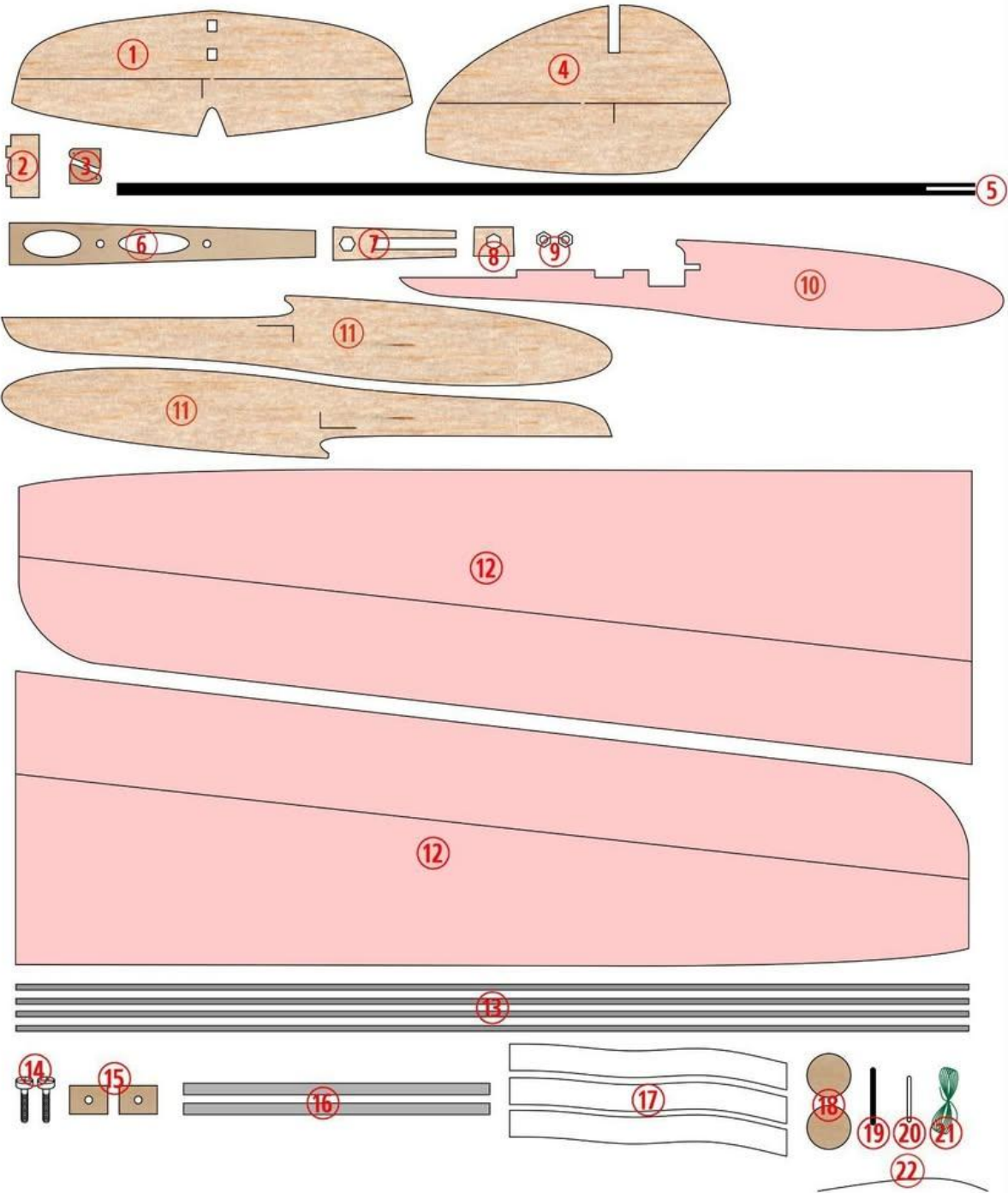
*Wing span: 1.00m
Length: 75cm
Flying weight from: 115g
Airfoil: mh32
Controls: Rudder, elevator*

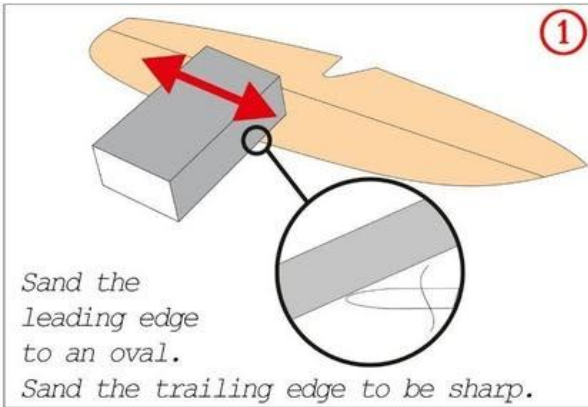
*Ideal for beginners,
easy to build construction.
Kit contents:
lasercutted wood parts, cnc
cutted wings and nose,
carbon parts and ect.
in plastic bag.*



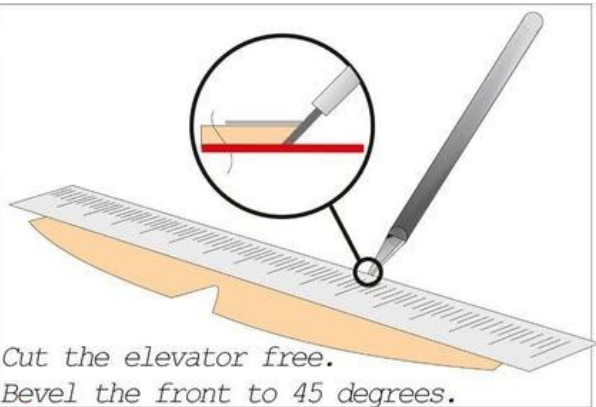
Big ViCK

parts list:

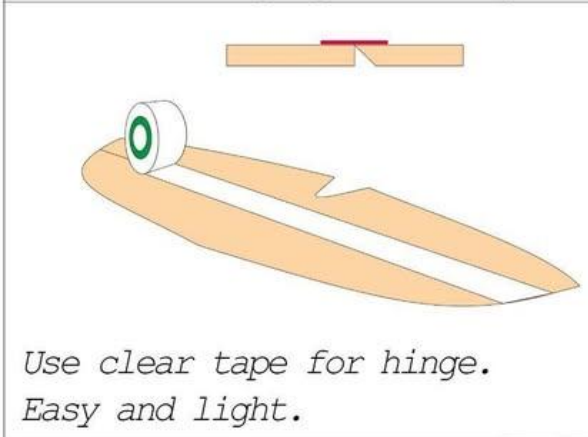




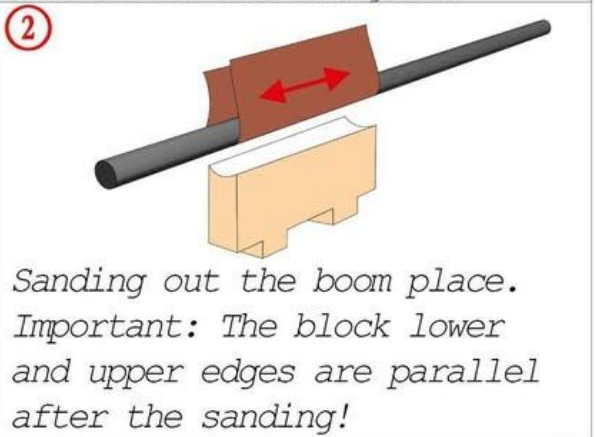
①
Sand the leading edge to an oval.
Sand the trailing edge to be sharp.



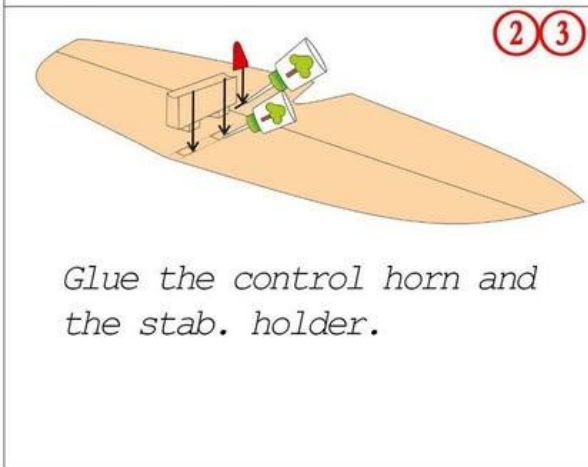
①
Cut the elevator free.
Bevel the front to 45 degrees.



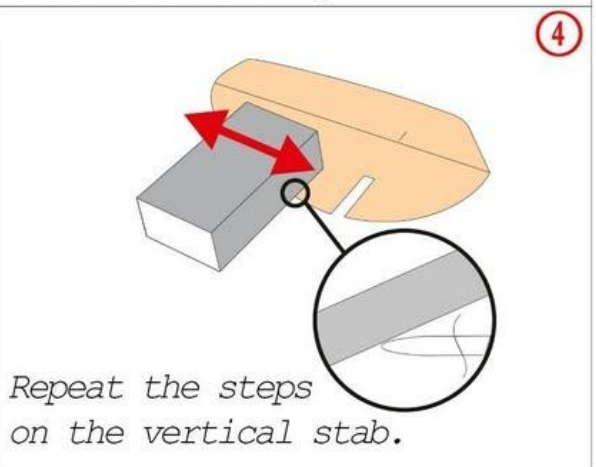
Use clear tape for hinge.
Easy and light.



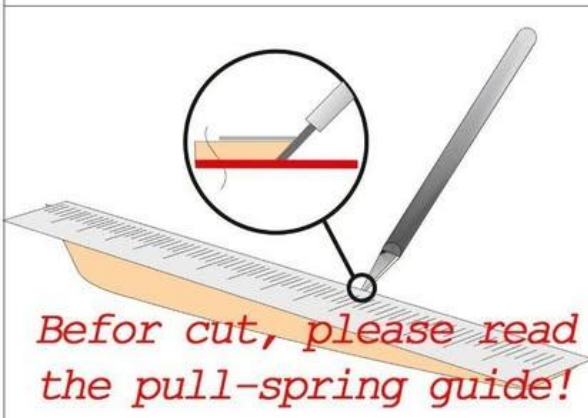
②
Sanding out the boom place.
Important: The block lower and upper edges are parallel after the sanding!



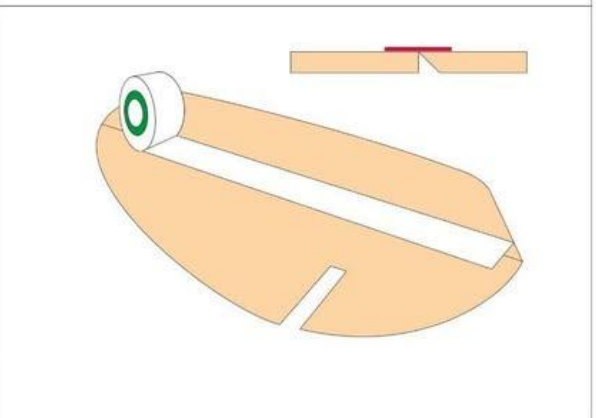
② ③
Glue the control horn and the stab holder.



④
Repeat the steps on the vertical stab.

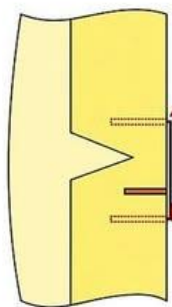
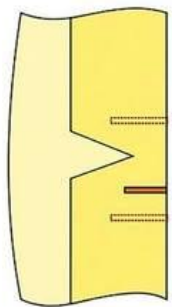
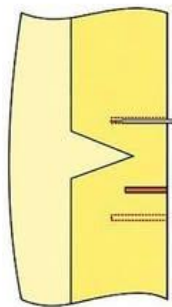
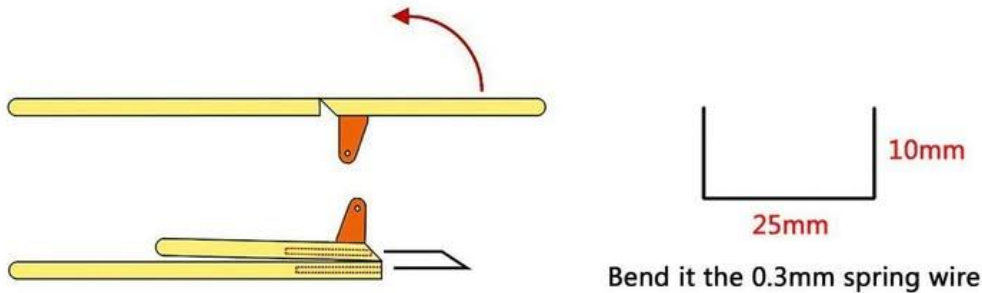


Before cut, please read the pull-spring guide!

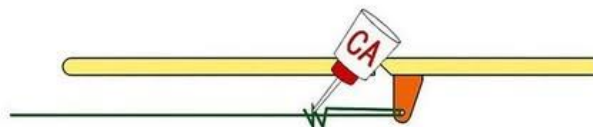


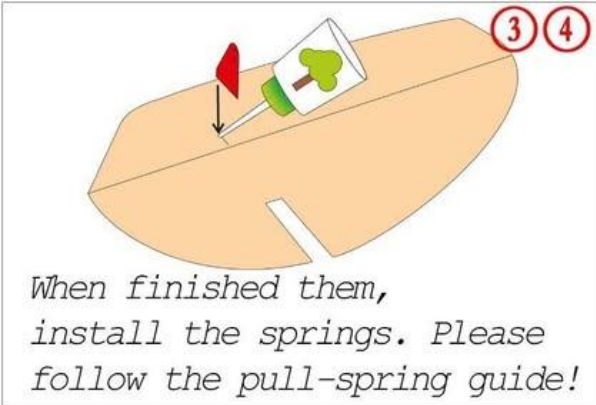
Pull-Spring Guide

1 4 22

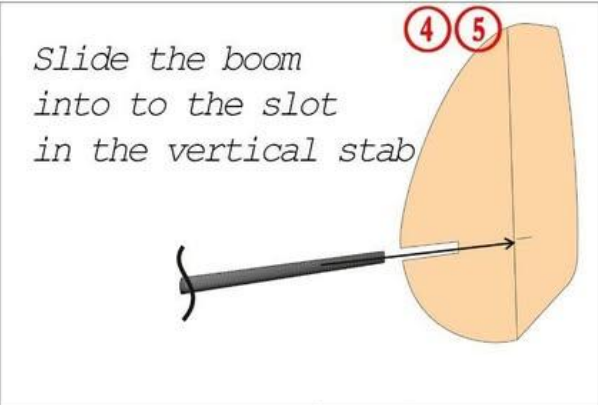


The rudder horn is placed on the opposite side of the launch peg. If you're a right hander, the rudder horn is installed on the right side of the rudder. The spring will deflect opposite the horn. Opposite the launch peg, cut a small amount of material at a 45° angle for the hinge. The springs are installed after sanding both the tail sections. Install the tape hinge and cut the excess off, 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.

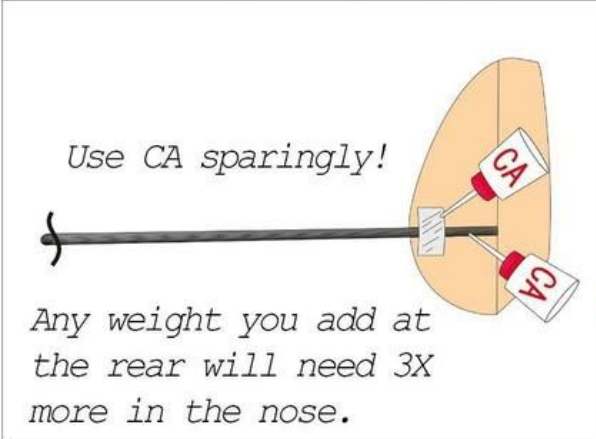




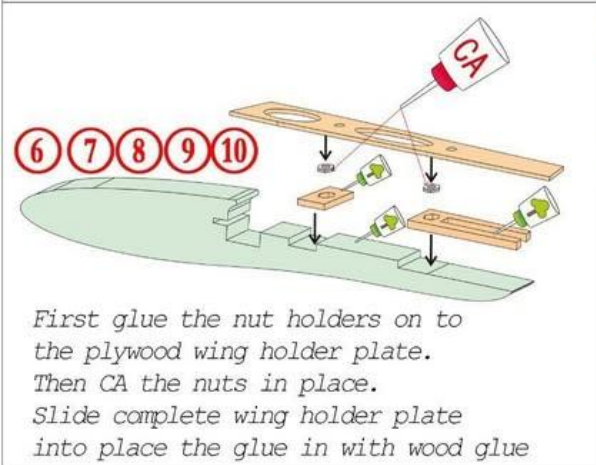
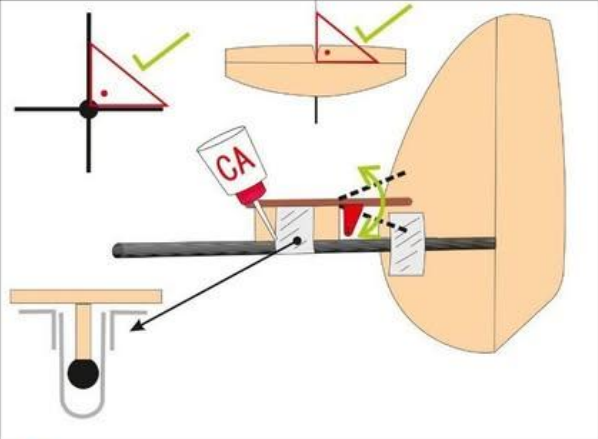
When finished them, install the springs. Please follow the pull-spring guide!



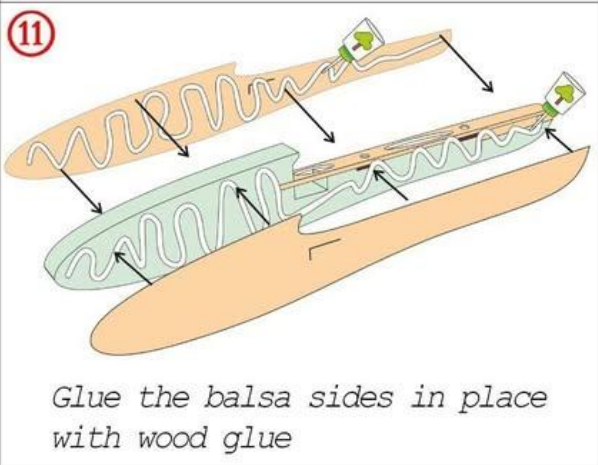
Slide the boom into to the slot in the vertical stab



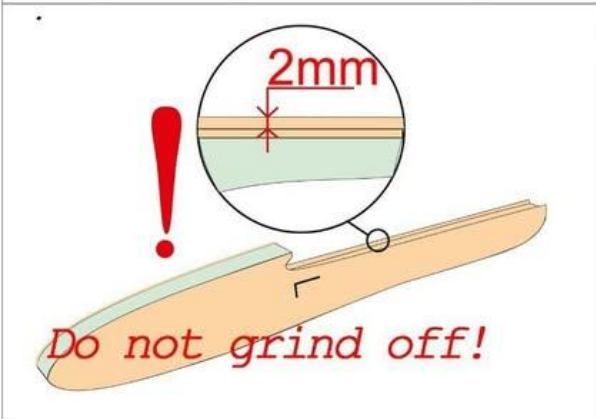
Use CA sparingly!
Any weight you add at the rear will need 3X more in the nose.



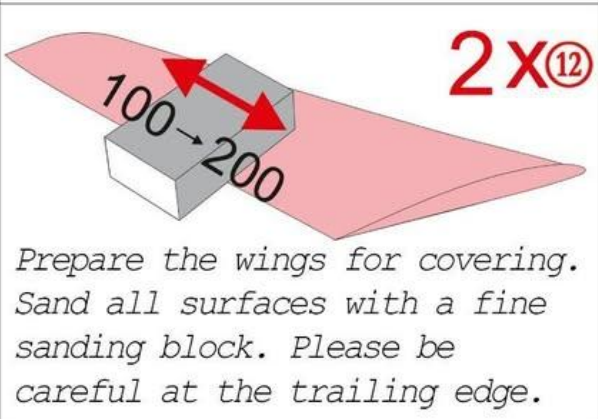
First glue the nut holders on to the plywood wing holder plate. Then CA the nuts in place. Slide complete wing holder plate into place the glue in with wood glue



Glue the balsa sides in place with wood glue

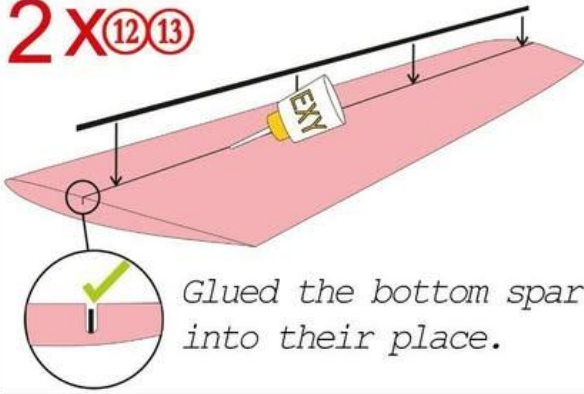


Do not grind off!

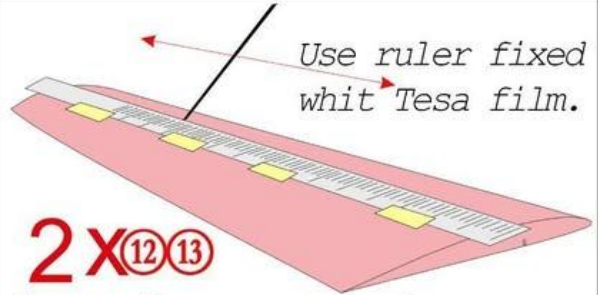


Prepare the wings for covering. Sand all surfaces with a fine sanding block. Please be careful at the trailing edge.

2 X (12) (13)



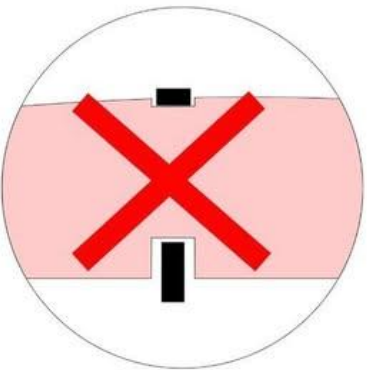
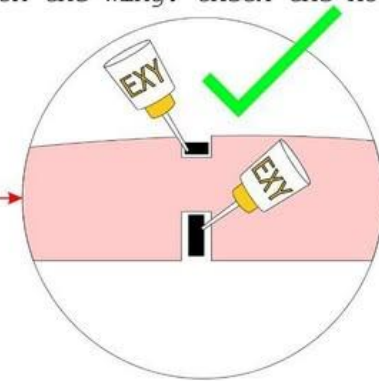
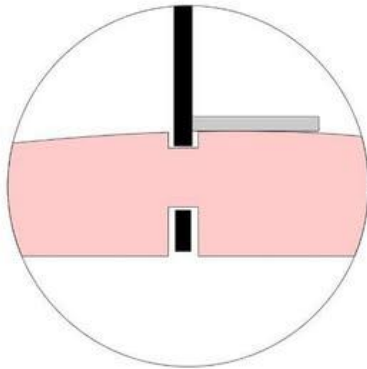
Glued the bottom spar into their place.



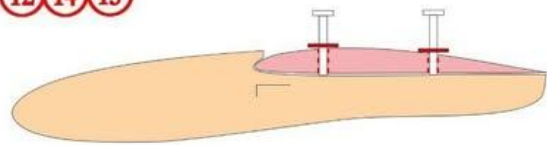
Use ruler fixed whit Tesa film.

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.

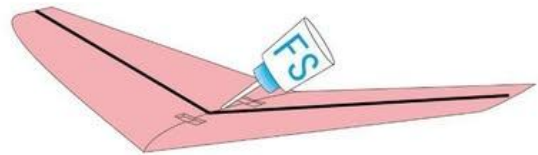
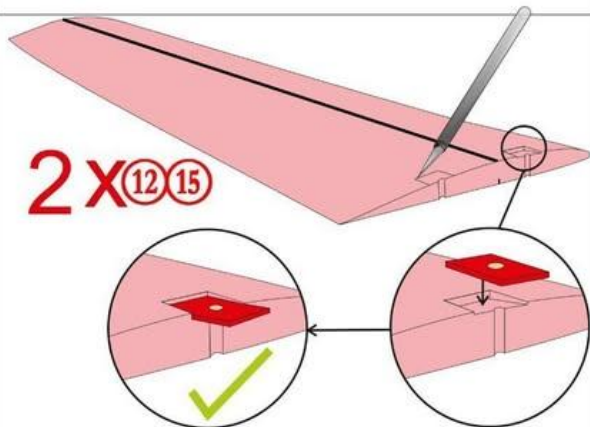


(12) (14) (15)

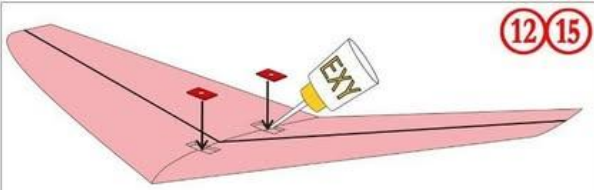


Locate one wing half correctly on the pod. Mark the screw locations using a pen. Use a round file to remove foam for the screws. Similarly mark up the location of the plywood wing reinforcements. Cut rebates in the foam to locate the plywood pieces. Repeat this for the other wing, checking the second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

2 X (12) (15)

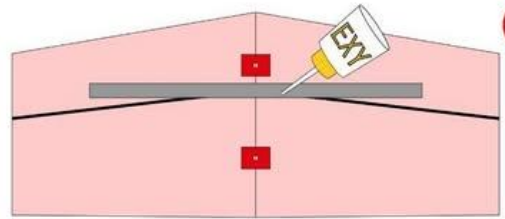


Joint the wings. Use foamsafe Ca.



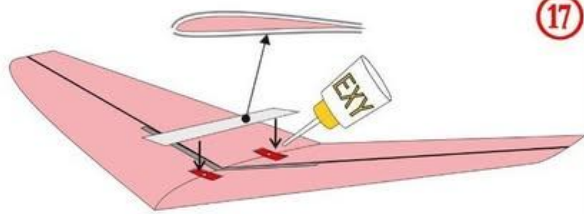
12 15

Install the plywood wing reinforcements.



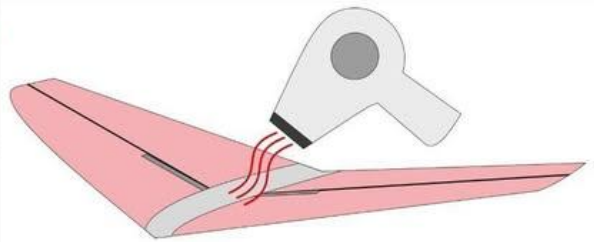
16

Install the UD. carbon strips in to the top and bottom side.

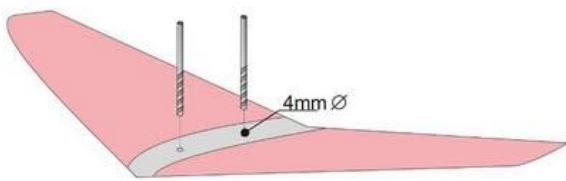


17

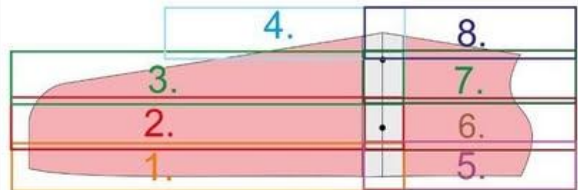
Install the fiberglass strips on to the top and bottom side.



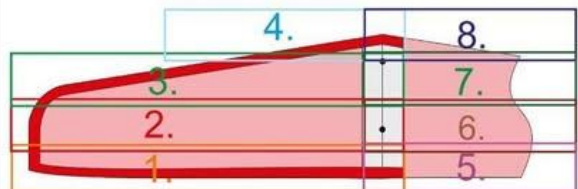
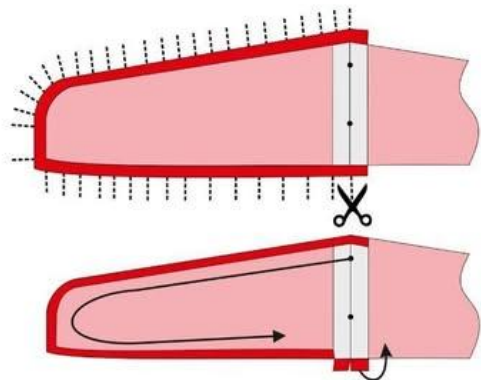
Heat them with hair dryer.



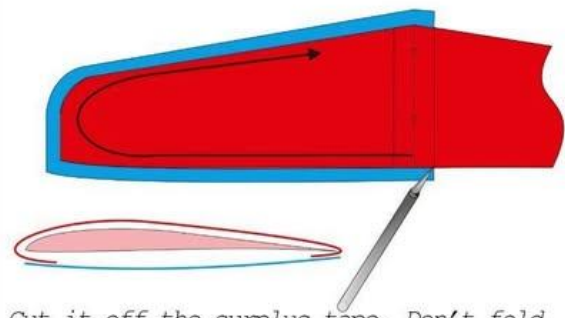
Drill holes for the wing mounting screws.



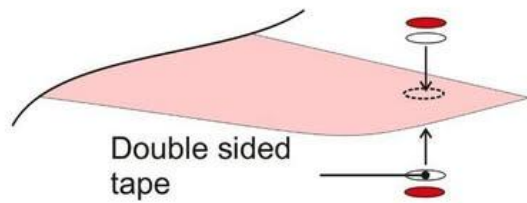
Wing covering: Use plain or colored packing tape. Start on the upper side. Follow the numbers.



Next step covering the bottom side. Follow the numbers.

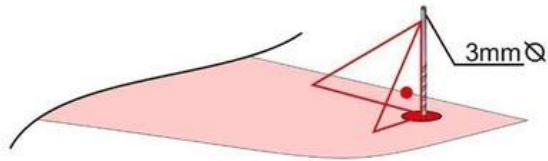


Cut it off the surplus tape. Don't fold up the bottom tape over the leading edge!

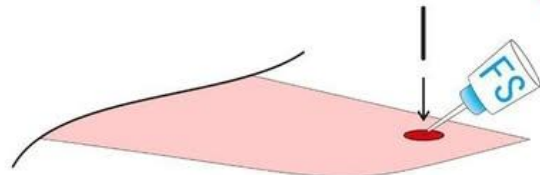


18

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

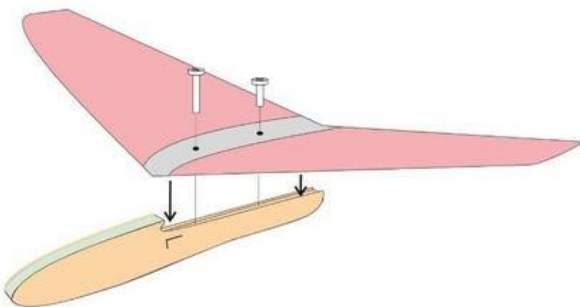


Drill a 3mm hold for the launch peg.

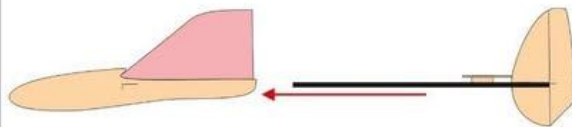


19

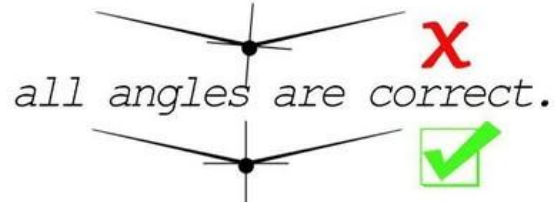
Glue in to the 3mm carbon rod peg with foamsafe CA.



Place the wing on to the nose

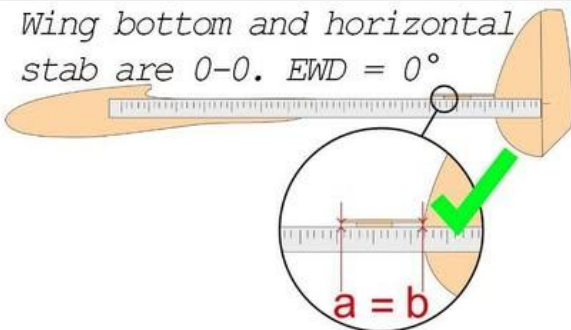


Assemble model and check

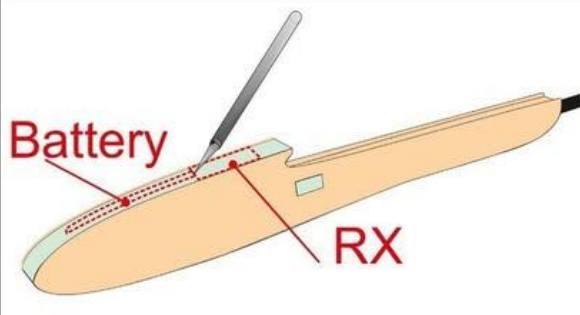
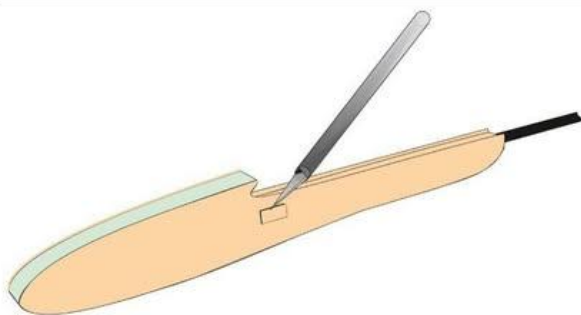


all angles are correct.

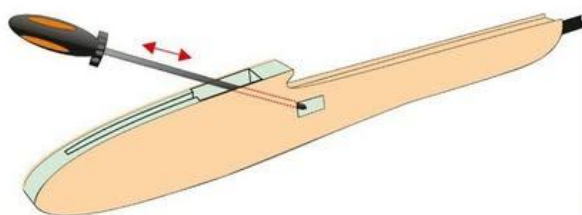
Wing bottom and horizontal stab are 0-0. EWD = 0°



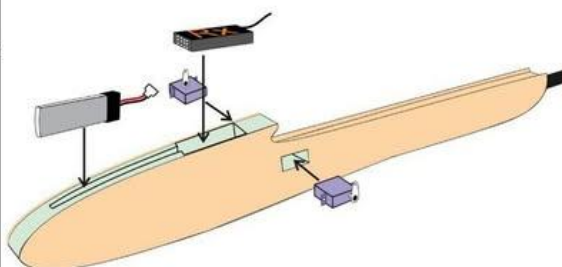
If all correct fix them with epoxy.



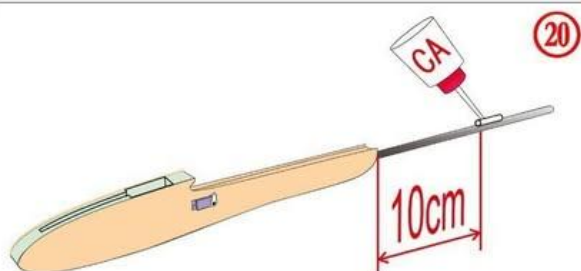
Cut out pockets for the servos, battery and receiver.



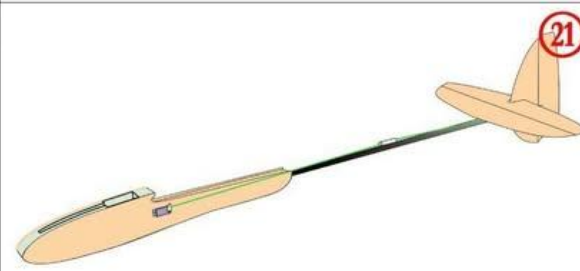
Carve out channels for the cables.



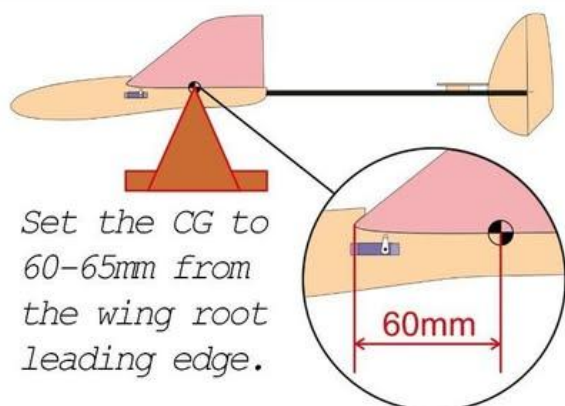
Install the electronics.



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



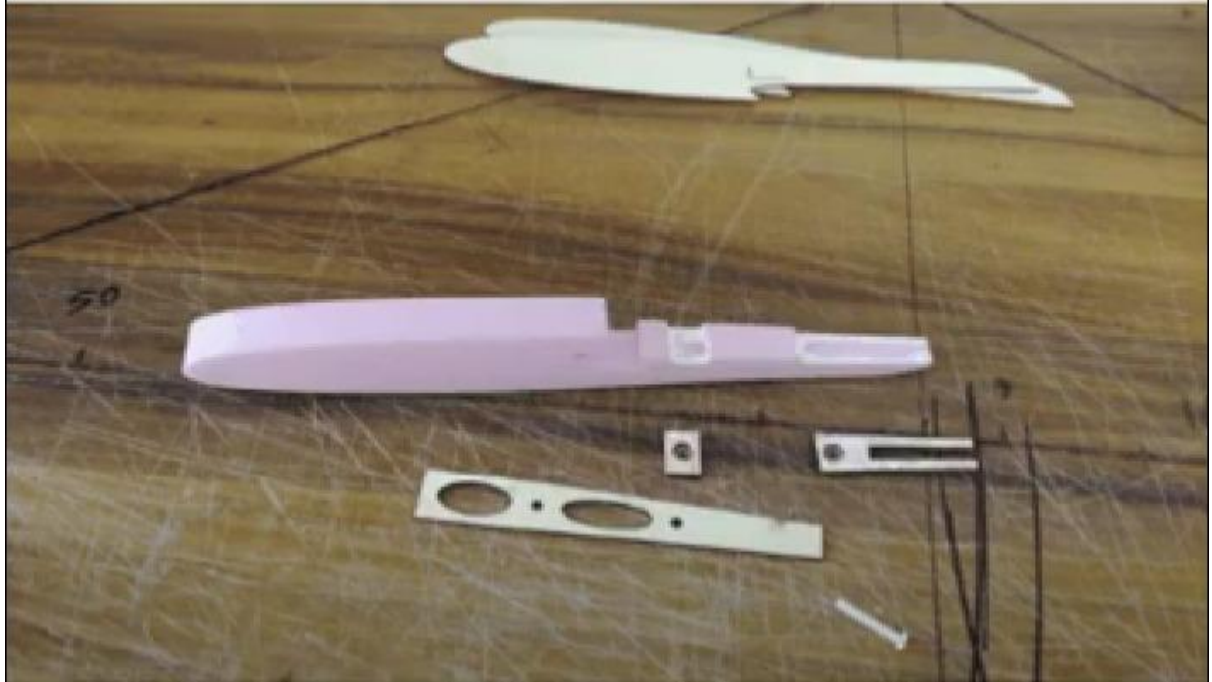
Install the control lines in to the servos and control horns between.

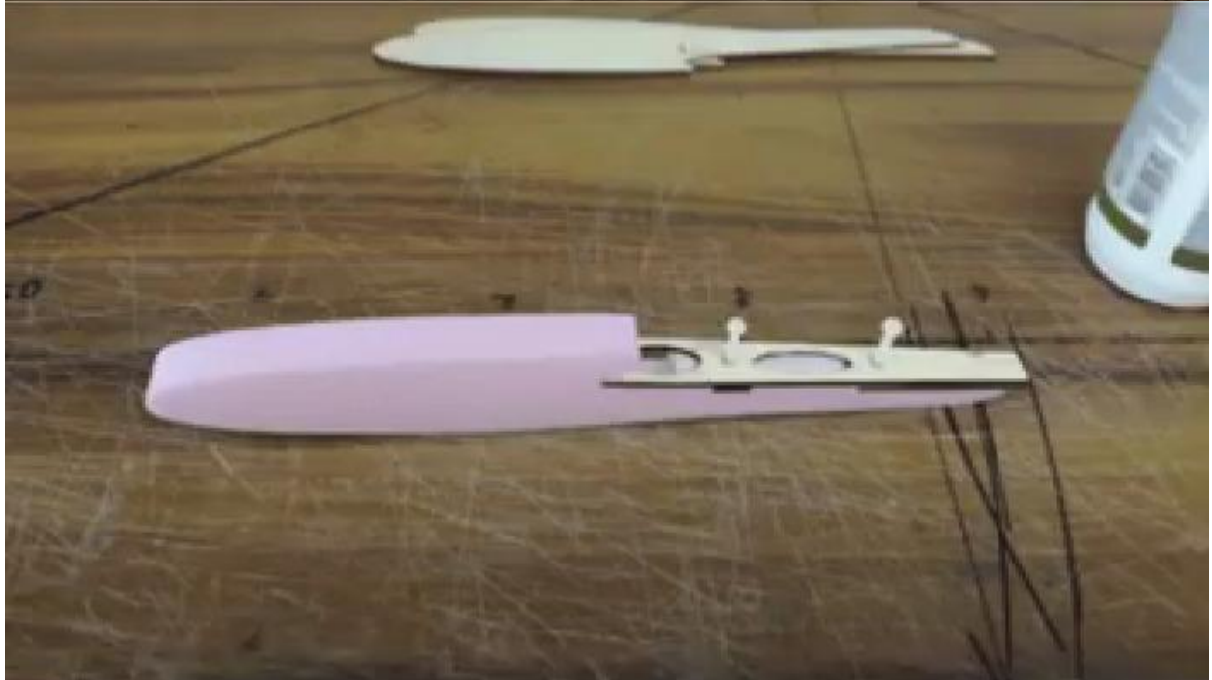


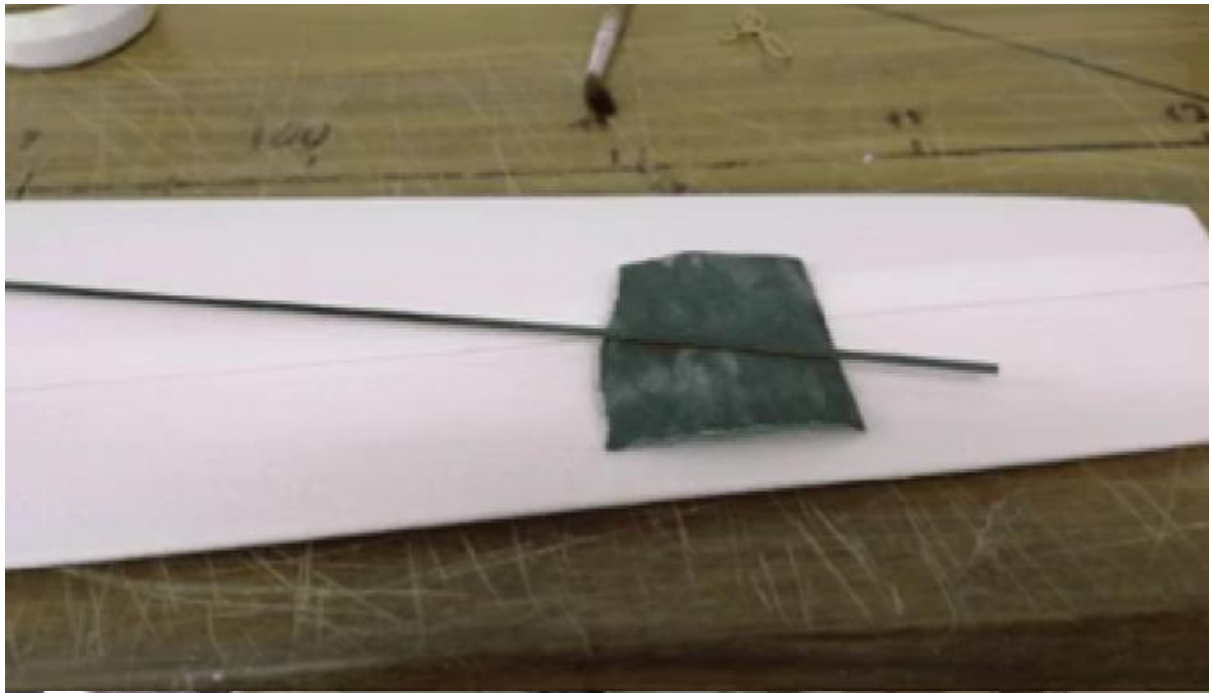
Set the CG to 60-65mm from the wing root leading edge.

Go to fly!

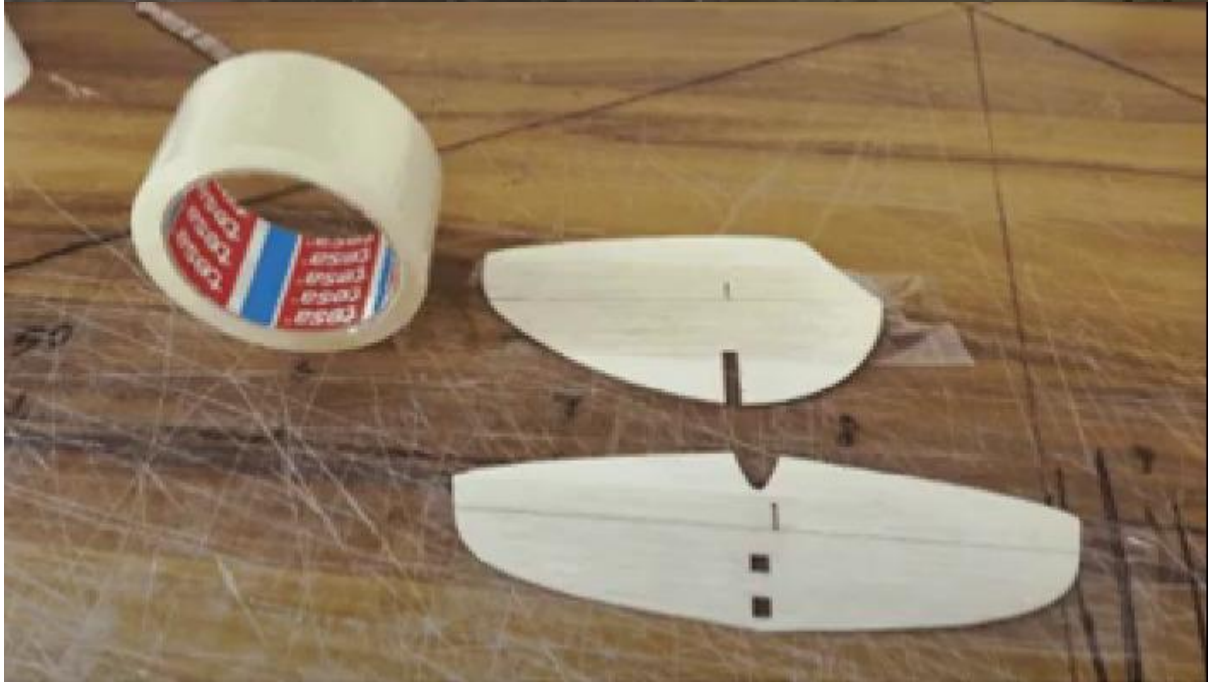
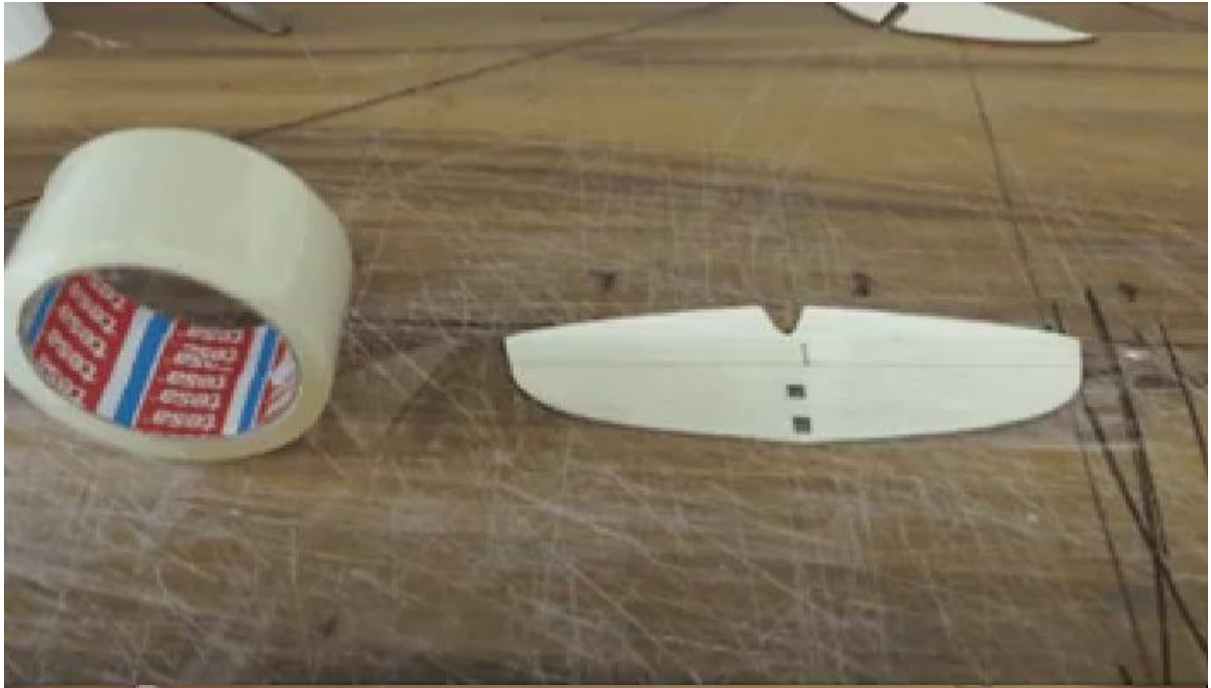


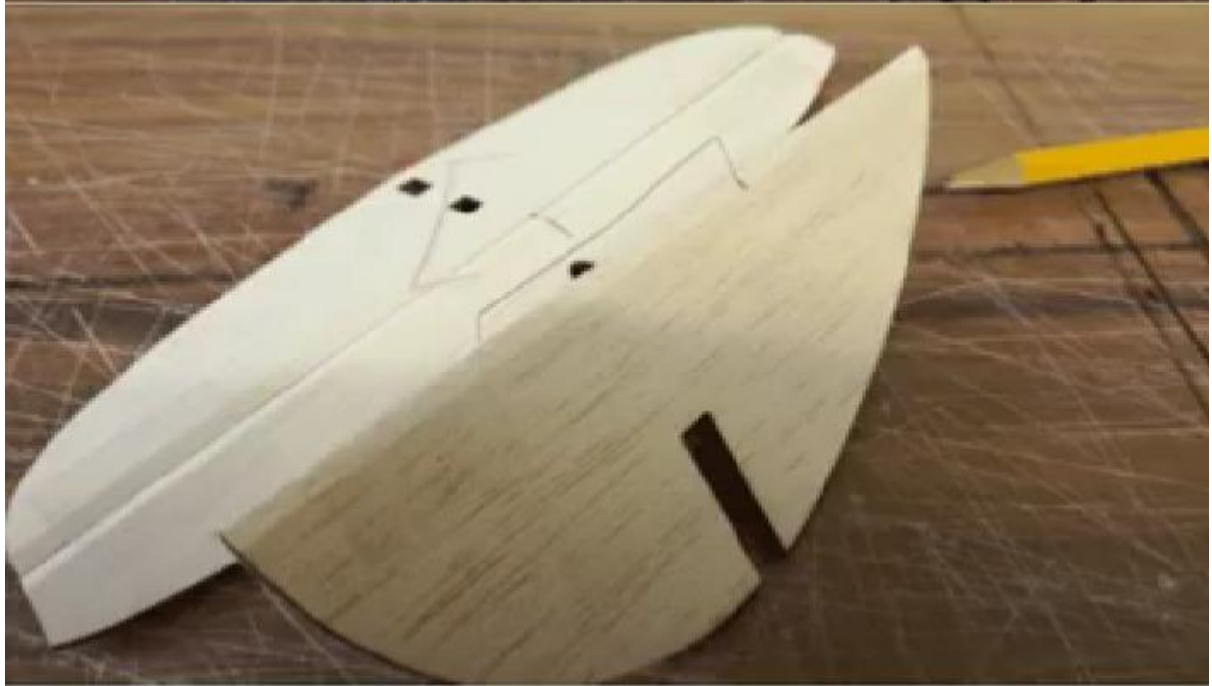


















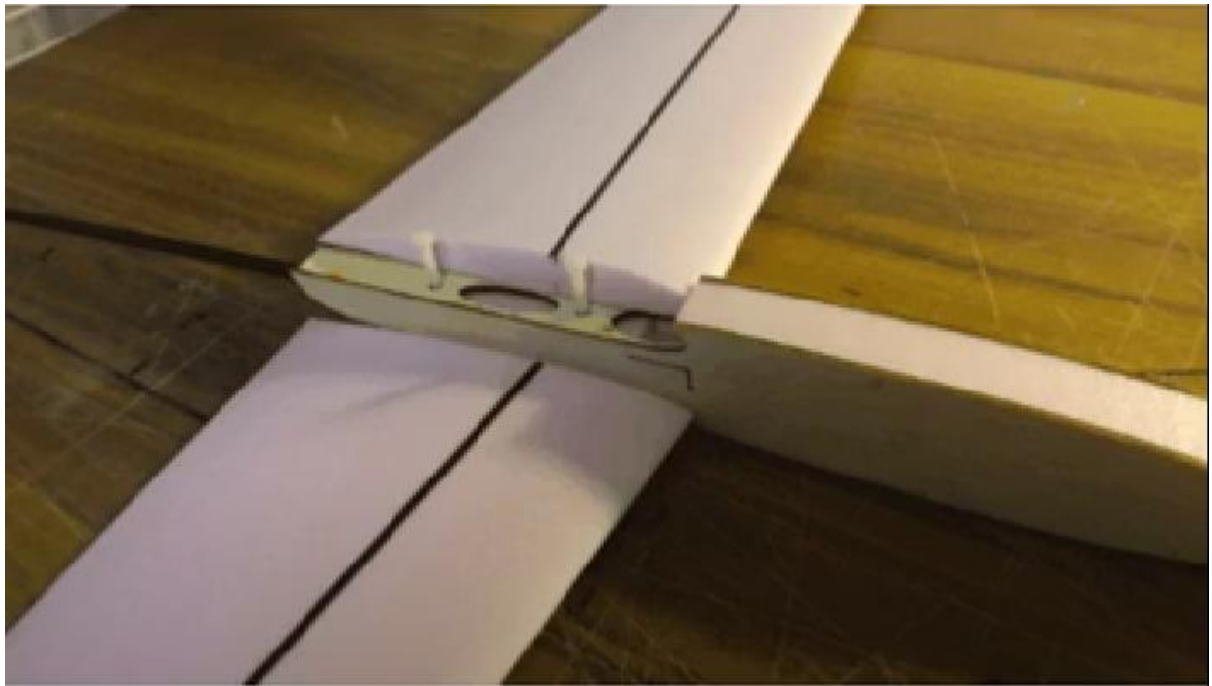




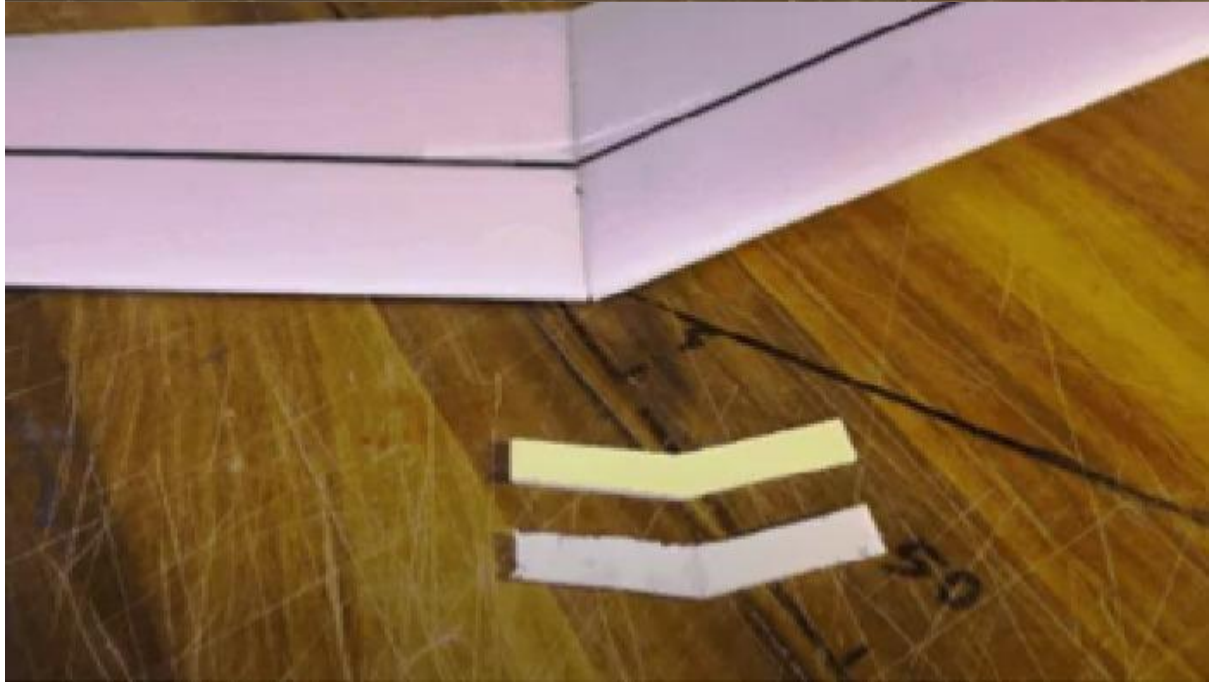


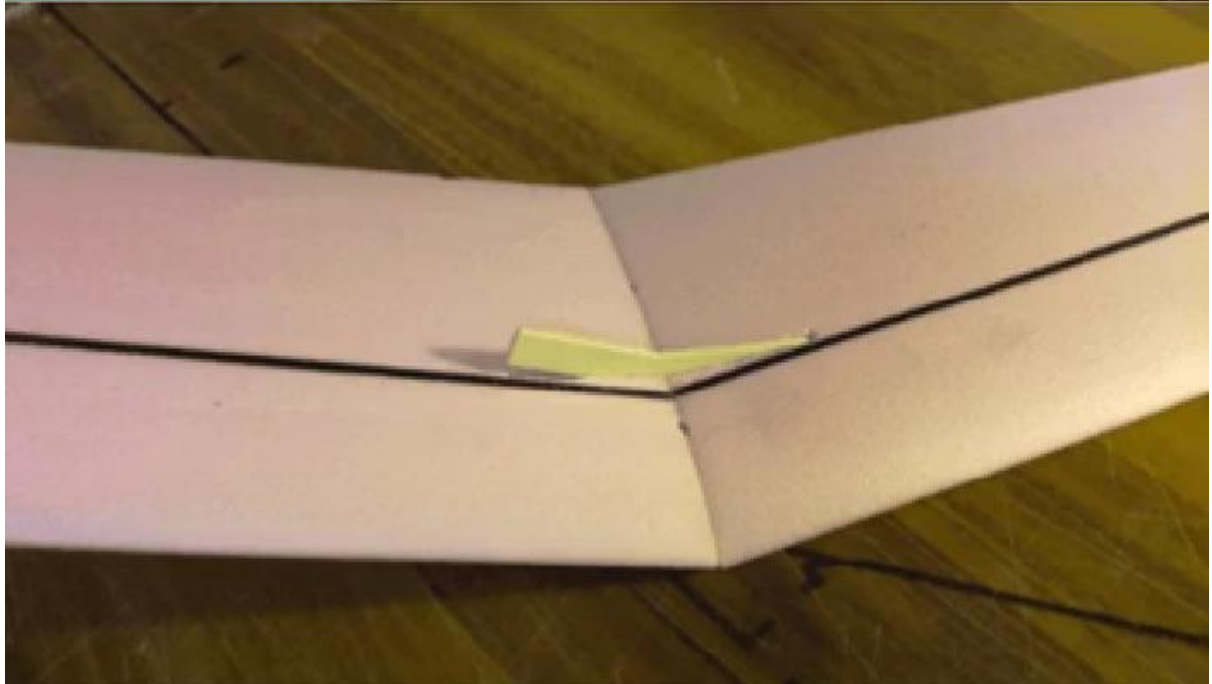
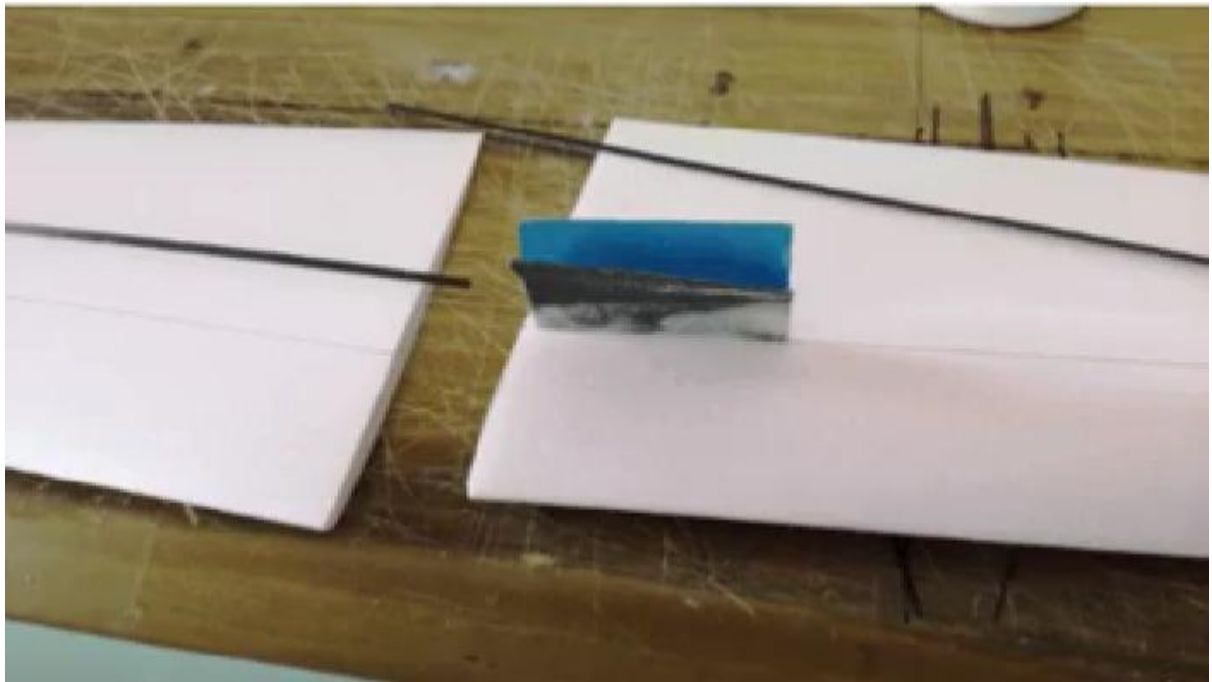


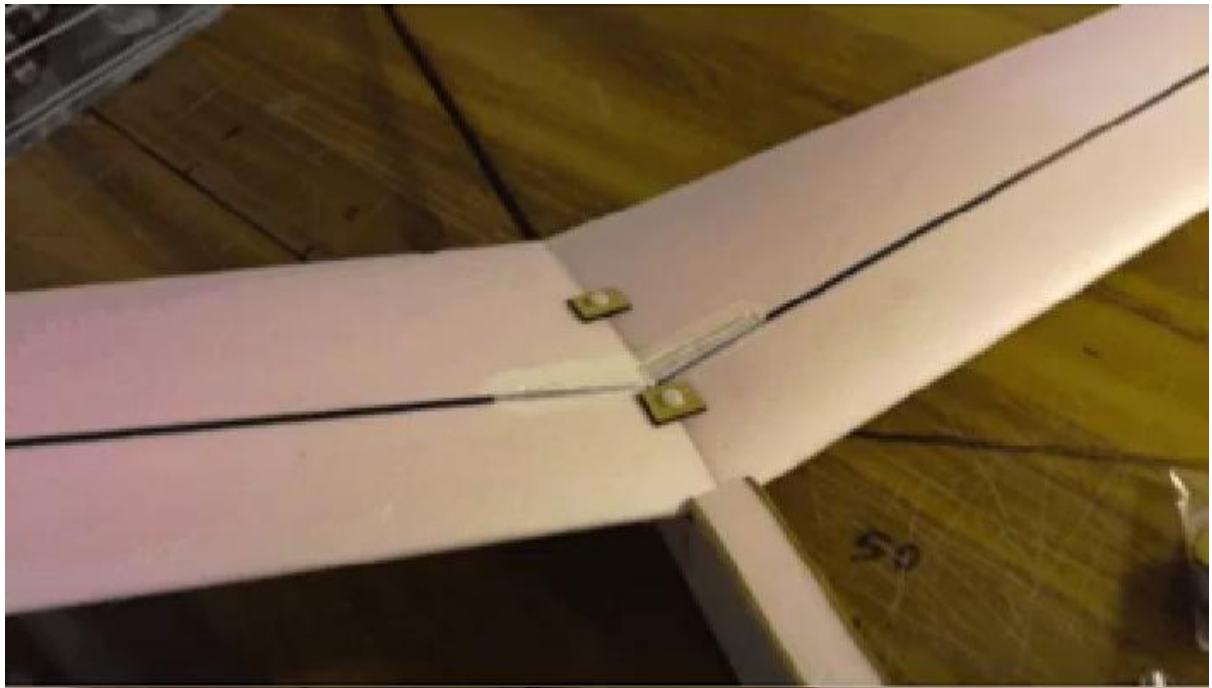


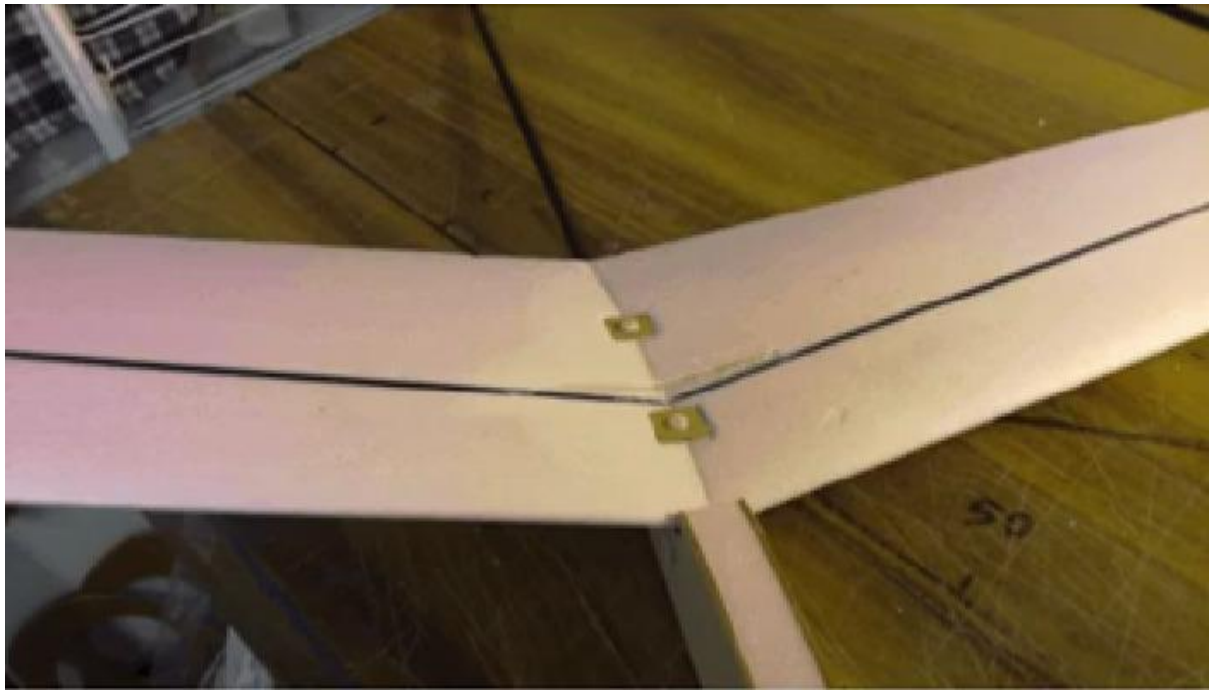








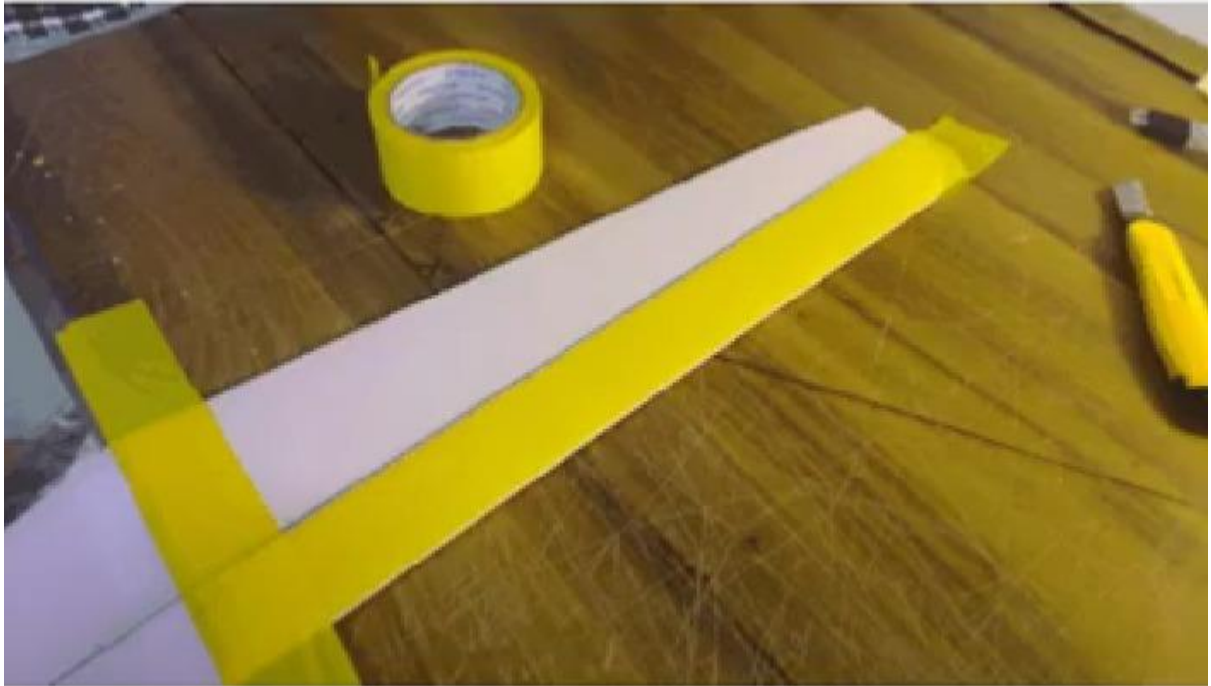


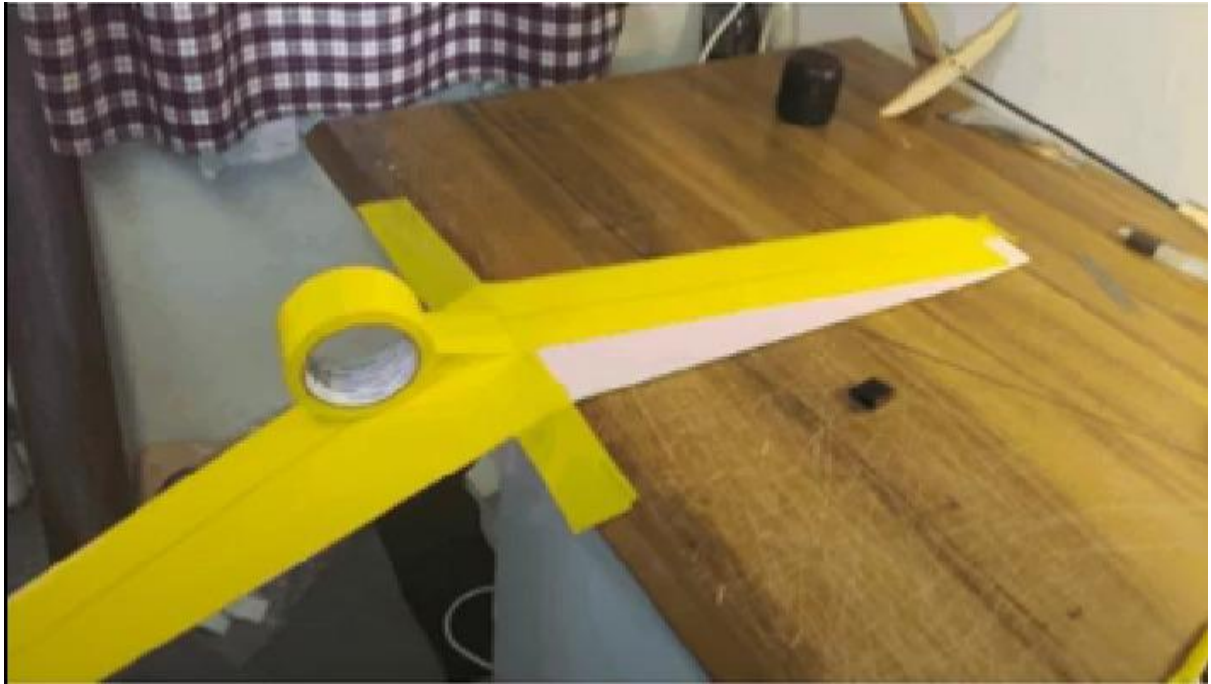




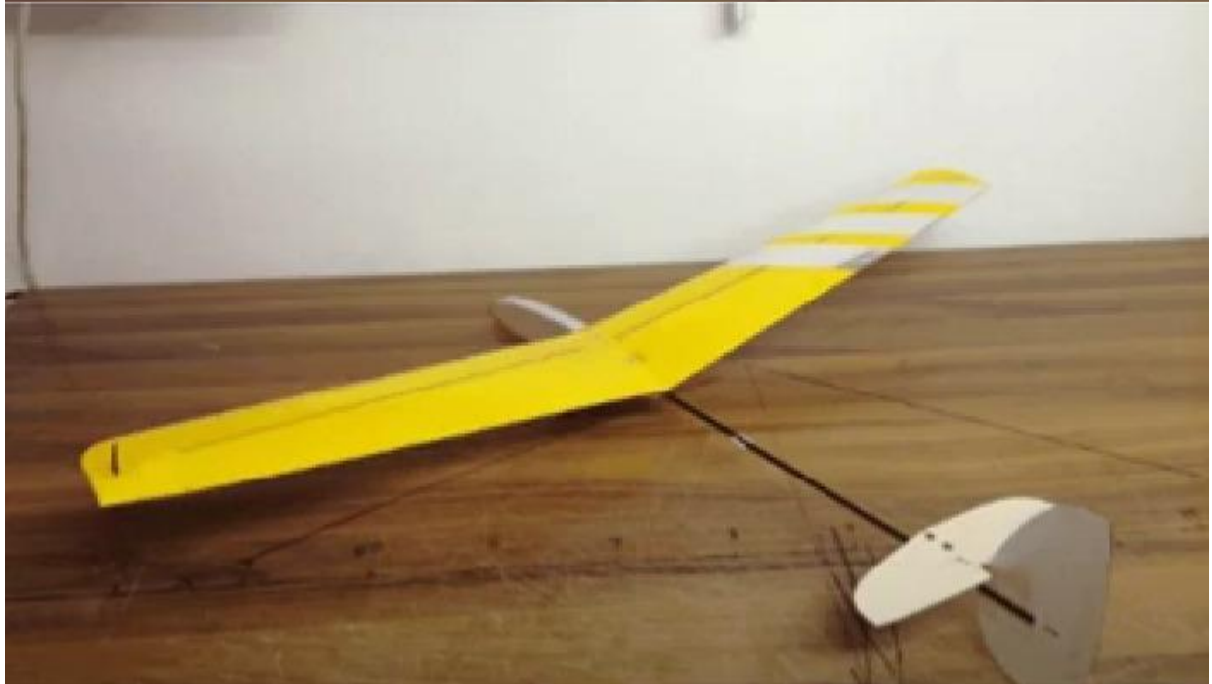




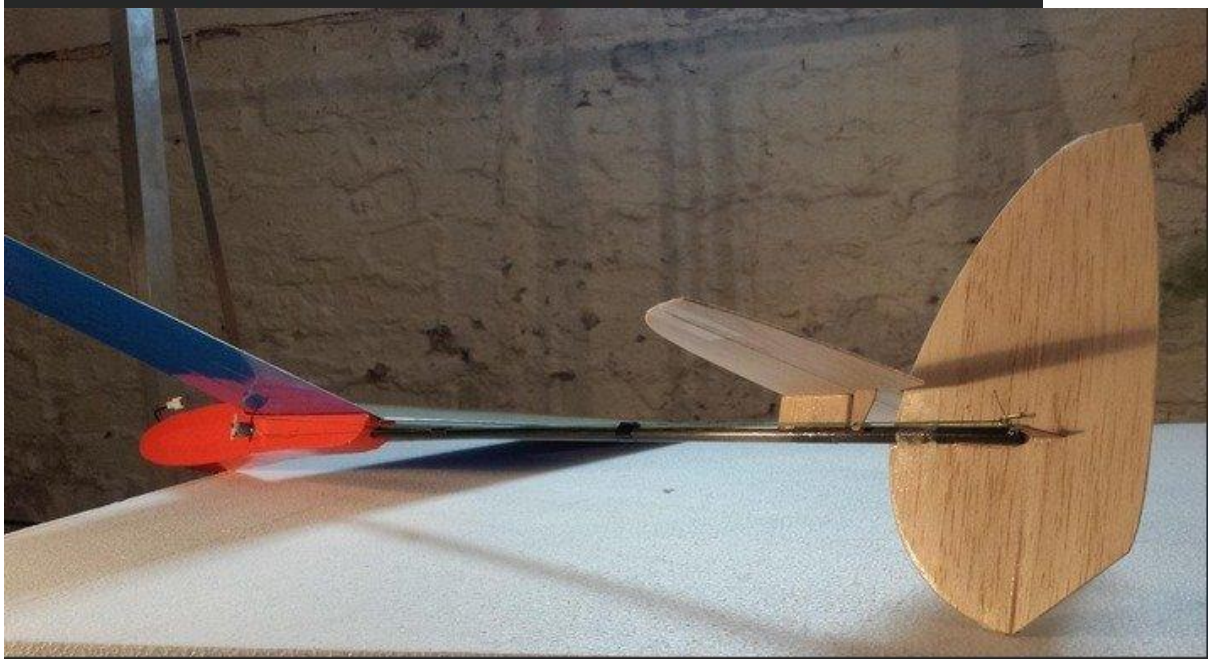
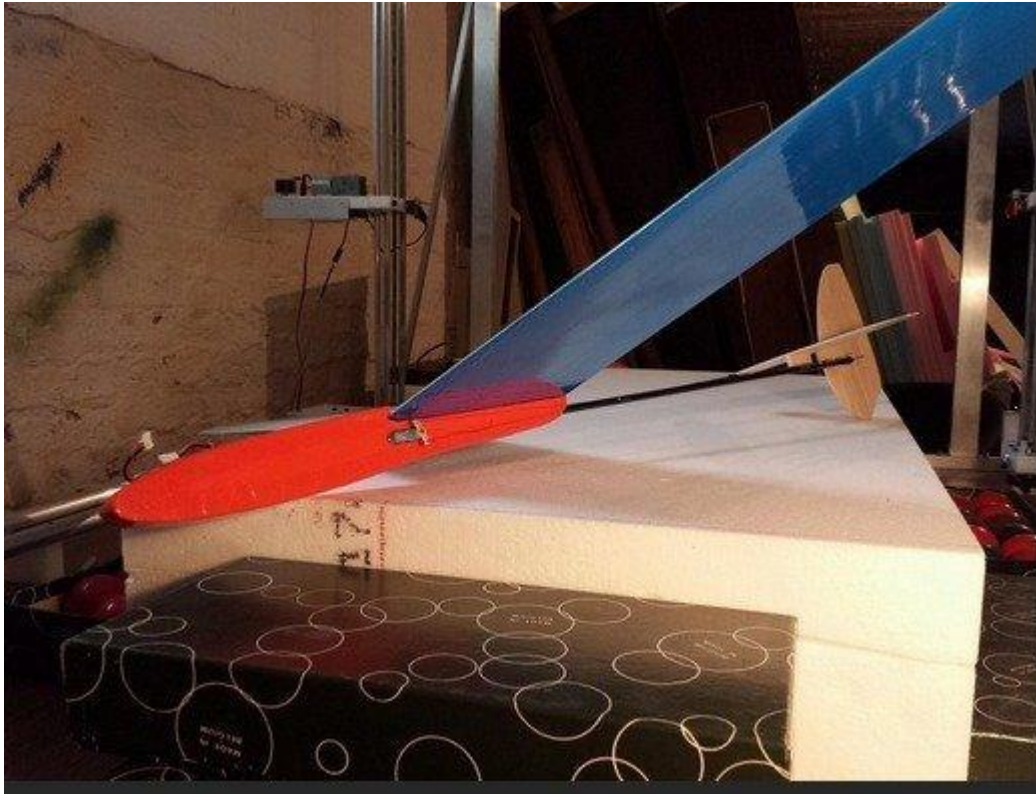














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- [D dae11 to du861372 \(28\)](#)
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- [F falcon to fxs21158 \(121\)](#)
- [G geminism to gu255118 \(419\)](#)
- [H hh02 to ht23 \(63\)](#)
- [I isa571 to isa962 \(4\)](#)
- [J j5012 to joukovsk0021 \(7\)](#)
- [K k1 to kenmar \(11\)](#)
- [L l1003 to lvk80150k25 \(24\)](#)
- [M m1 to mue139 \(95\)](#)
- [N n0009sm to nplx \(174\)](#)
- [O oa206 to oaf139 \(9\)](#)
- [P p51droot to pw98mod \(16\)](#)
- [R r1046 to rhodesg36 \(63\)](#)
- [S s1010 to supermarine37iii \(176\)](#)

AG03 (flat aft bottom) (ag03-il)

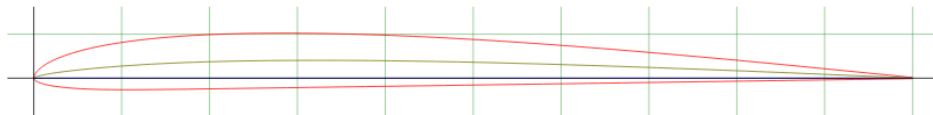
AG03 (flat aft bottom) - Drela AG03 (flat aft bottom) airfoil

REFUNDS

Financed A Car Between 2007-2024?

Lookup Your Name+

We Could Find (2) Mis-Sold Car Finance Agreements In Your Name



Details

(ag03-il) AG03 (flat aft bottom)
Drela AG03 (flat aft bottom) airfoil
Max thickness 6.2% at 25.7% chord.
Max camber 2% at 33.1% chord
Source [LJLJC Airfoil Coordinates Database](#)
[Source dat file](#)
The dat file is in Selig format

Dat file

```
AG03 (flat aft bottom)
1.000000 0.000662
0.994875 0.001210
0.984975 0.002247
0.973308 0.003426
0.960939 0.004647
```

Parser

No parser warnings

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- NACA 4 digit airfoils
- NACA 5 digit airfoils
- NACA 6 series airfoils

Airfoils A to Z

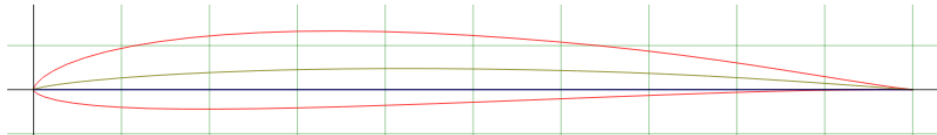
- A a18 to avistar (88)
- B b29root to bw3 (22)
- C c141a to curtisc72 (40)
- D dae11 to du861372 (28)
- E e1098 to esa40 (209)
- F falcon to fxs21158 (121)
- G geminism to gu255118 (419)
- H hh02 to hl23 (63)

MH 32 8.7% (mh32-il)

MH 32 8.7% - Martin Hepperle MH 32 for F3E and F3B

One Click
Start Download

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Details

(mh32-il) MH 32 8.7%
Martin Hepperle MH 32 for F3E and F3B
Max thickness 8.7% at 30.2% chord.
Max camber 2.3% at 45.7% chord
Source [UIUC Airfoil Coordinates Database](#)
[Source dat file](#)
The dat file is in Selig format

Dat file

```
MH 32 8.7%
1.00000000 0.00000000
0.99671850 0.00034782
0.98706463 0.00149967
0.97145561 0.00363339
0.95035123 0.00677805
```

Parser

No parser warnings

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- H hh02 to hl23 (63)
- I isa571 to isa962 (4)
- J j5012 to jsubsonic0014 (7)

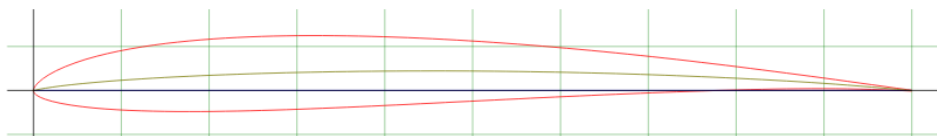
AG24 Bubble Dancer DLG by Mark Drela (ag24-il)

AG24 Bubble Dancer DLG by Mark Drela - Drela AG24 airfoil used on the Bubble Dancer R/C DLG

MIS-SOLD CAR FINANCE AGREEMENT FINDES
BLACK HORSE REFUNDS
Financed A Car Between 2007-2020?
Lookup Your Name+
Average Potential Refund: **£1,658.00***

We Could Find (2) Mis-Sold Car Finance Agreements In Your Name
PCP Car Loan Claims UK

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Details

(ag24-il) AG24 Bubble Dancer DLG by Mark Drela
Drela AG24 airfoil used on the Bubble Dancer R/C DLG
Max thickness 8.4% at 26% chord.
Max camber 2.2% at 46.9% chord
Source [UIUC Airfoil Coordinates Database](#)
[Source dat file](#)
The dat file is in Selig format

Dat file

```
AG24 Bubb1e Dancer DLG by Mar
1.000000 0.000312
0.994048 0.001043
0.982038 0.002630
0.968488 0.004486
0.954647 0.006421
```

Parser

Dat file parser warnings
• Line 162 - Invalid characters :
The AG2x airfoils are intended to be used on composite versions of the
• Line 163 - Invalid characters :
Bubble Dancer and the Allegro-Lite.

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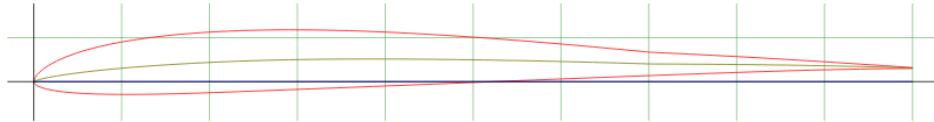
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- [F falcon to fxs21158 \(121\)](#)
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AG45c -03f (ag45c03-il)

AG45c -03f - Drela AG45c -03f airfoil

One Click
Start Download



Details

(ag45c03-il) AG45c -03f
Drela AG45c -03f airfoil
Max thickness 6.9% at 23.5% chord.
Max camber 2% at 31.7% chord
[Source UIUC Airfoil Coordinates Database](#)
[Source dat file](#)
The dat file is in Selig format

Dat file

AG45c -03F	
1.	0.000086 0.015922
0.	0.994138 0.016317
0.	0.982099 0.017150
0.	0.968507 0.018092
0.	0.954615 0.019018

Parser

Dat file parser warnings

- Line 2 - X value too large but included: 1.000086 0.015922
- Line 170 - X value too large but included: 1.000152 0.015029

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