

# ASSEMBLY MANUAL AND USER GUIDE



**Mitsubishi G4M**

**“Betty”**

**1000mm**

By 3D AEROWORKS

## OVERVIEW:

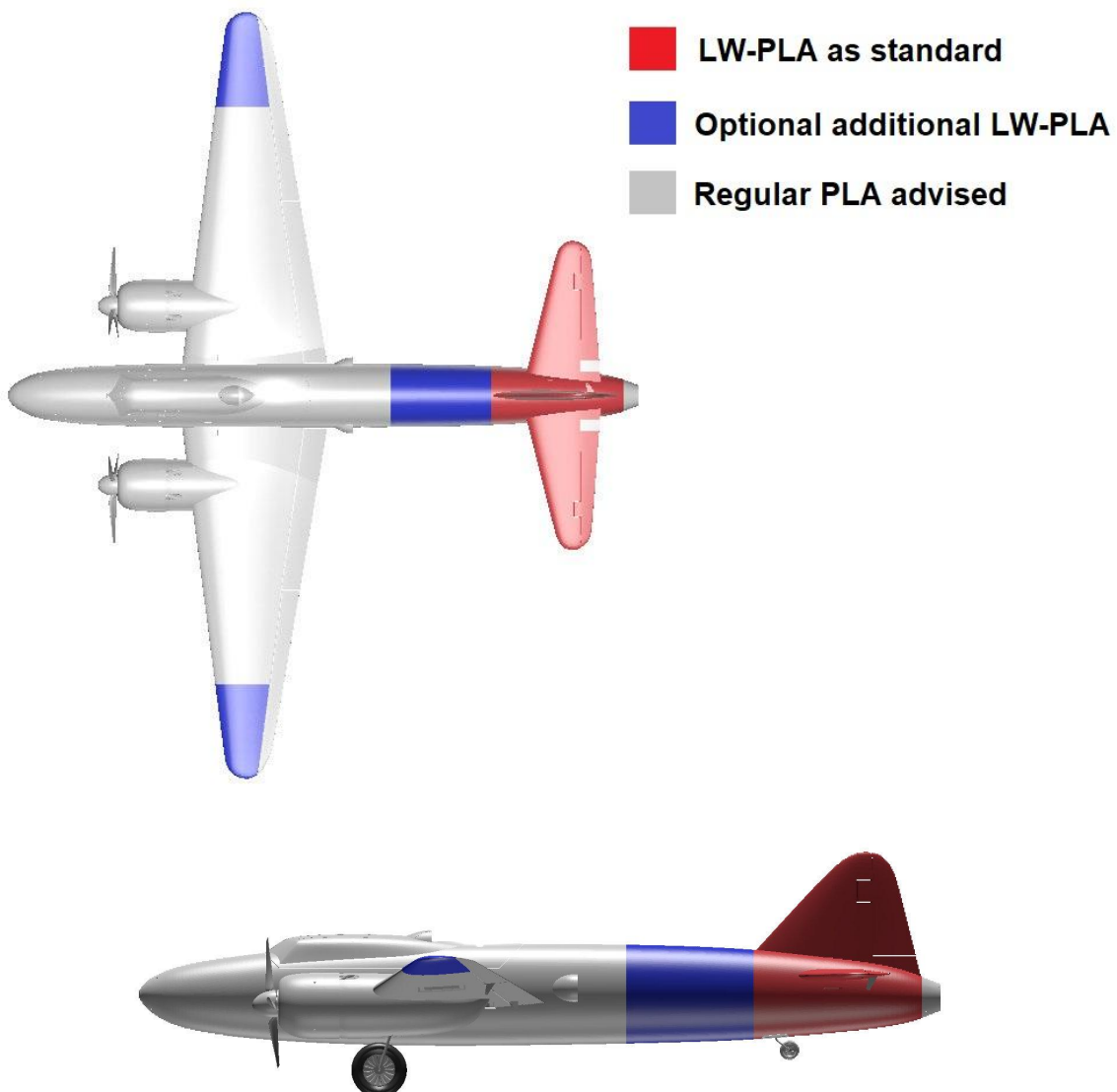
This replica of the Mitsubishi G4M Betty is designed for quick and easy construction and printed using a combination of regular PLA and lightweight PLA (LW-PLA). Designed to suit the 2826 2200kv motor this model has a significant amount of power and is happy to cruise around at 40% power thanks to its lightweight yet sturdy construction. Utilizing full 5 channel controls; Ailerons, Elevator, Flaps, Rudder and Throttle, this model is sure to turn some heads at the local flying field. Links to components used can be found on the last page of the user guide.

This model has taken many hours of hard work and testing in order to provide a nice flying aircraft. Please do not share it. Please show your appreciation by directing interested parties to the link below.

<https://cults3d.com/en/3d-model/various/mitsubishi-g4m-betty-1000mm>

## BUILD OPTIONS:

This model is designed to be printed primarily from regular PLA, apart from the tail section which should be printed in LW-PLA. It is possible however to increase the amount of sections that are printed in LW-PLA. Please refer to the images below.



## GENERAL SPECIFICATIONS

WINGSPAN:	1000mm
PRINT WEIGHT:	700g
FLYING WEIGHT:	1150g
CENTER OF GRAVITY	46mm aft of L.E at wing root. (Marked with indentation)

## ELECTRICS

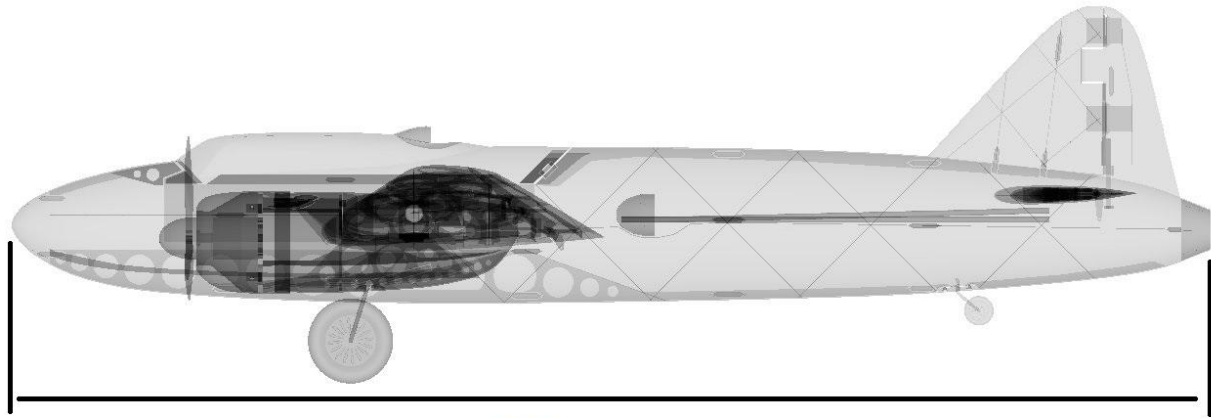
MOTOR:	2826 2200kv
ESC:	30amp
SERVOS:	standard 9g MICRO
BATTERY:	2200mah 3S (165g) (or similar)

## NOTE!

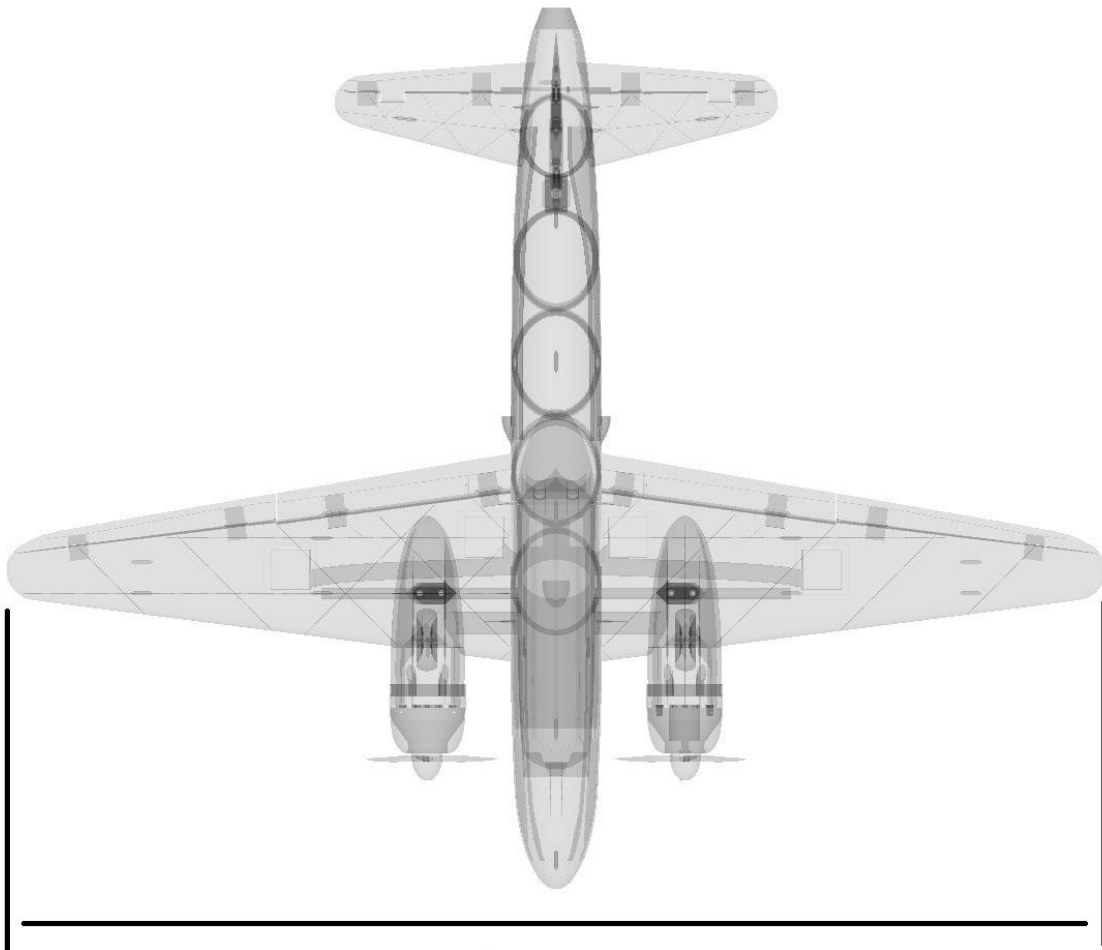
MINIMUM BUILD VOLUME: 200mm x 200mm x 200mm

STL FILES OF ALL COMPONENTS **(scale to 1000% if not using S3D)**

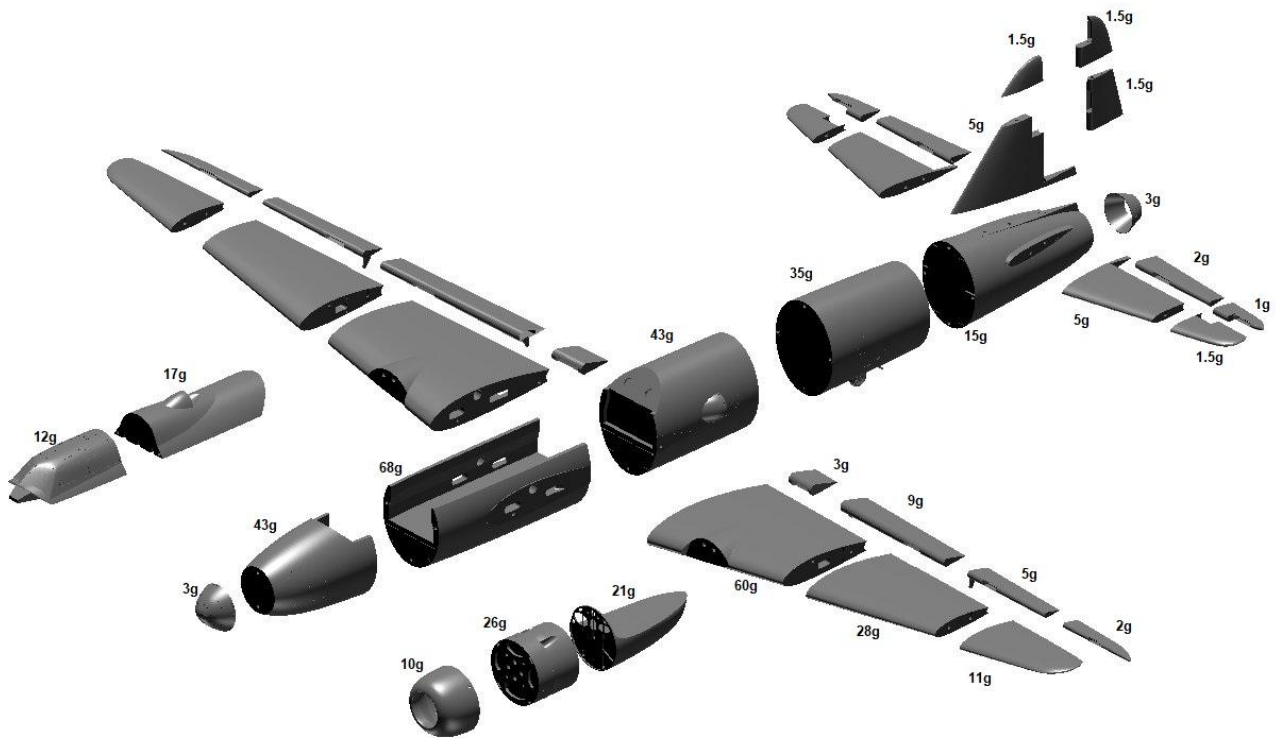
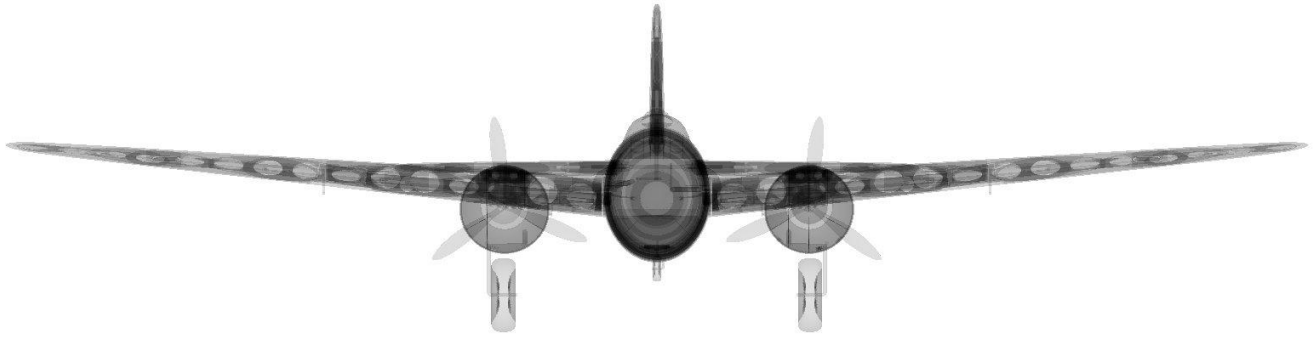




**795mm**



**1000mm**



## REQUIRED TOOLS:

KNIFE

LIGHTER

SANDPAPER (MEDIUM GRIT)

PLIERS

CA GLUE

SCREW DRIVERS

FILE OR RASP

DRILL

## REQUIRED COMPONENTS:

X2 2826 2200kv motors

X2 30amp esc (min)

X1 2200mah 3s LIPO OR SIMILAR  
(165g)

X6 9g Micro servo

X1 20mm foam wheel

X2 50mm foam wheel

X4 10mm X 10mm X 2mm Magnet  
(ROUND)

X10 16mm x 19mm nylon pinned hinge

X1 Carbon tube 10mm x 8mm x 500mm

X1 Carbon square rod 3mm x 100mm  
(100mm min length)

X2 1.5mm Piano wire (500mm min length)

X1 M2 steel rod 100mm (or similar)

X1 M3 steel rod 100mm (or similar)

X2 M2 Wheel stop collar

X2 M3 Wheel stop collar

X8 M3 Threaded inserts

X8 M3 x 10mm bolts

X8 M3 x 25mm screws

CW and CCW 5x5 propeller

Velcro

Bamboo skewers 3mm

Assorted m2 screws



## ASSEMBLY INSTRUCTIONS

**1**

After all parts have been printed, some may require to be cleaned as LW-PLA is prone to stringing. Do this by gently sanding back the rough sections with a file, sandpaper or blade until the surface is smooth.

**2**

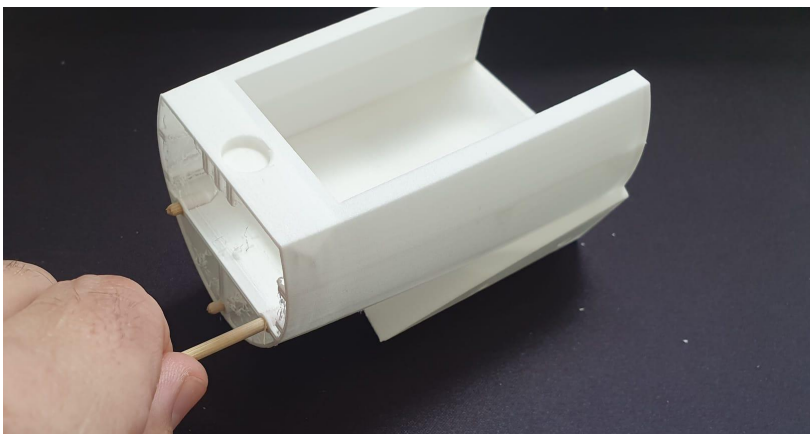
All faces which are to be glued to other parts need to be given a light sanding (scuff the surface) to assist with glue adhesion.

**3**

Cut 15mm sections of skewer and place into alignment holes in the fuselage sections.

**NOTE** - It may be required to open up the holes a small amount if the fit is too tight. Do this by using a 3mm drill bit. Gently spin it in reverse as you insert it into the hole. This will ensure the bit does not tear the print.

Test fit the sections of the fuse before gluing to ensure a clean fit.





4

Glue all sections of the fuse together.

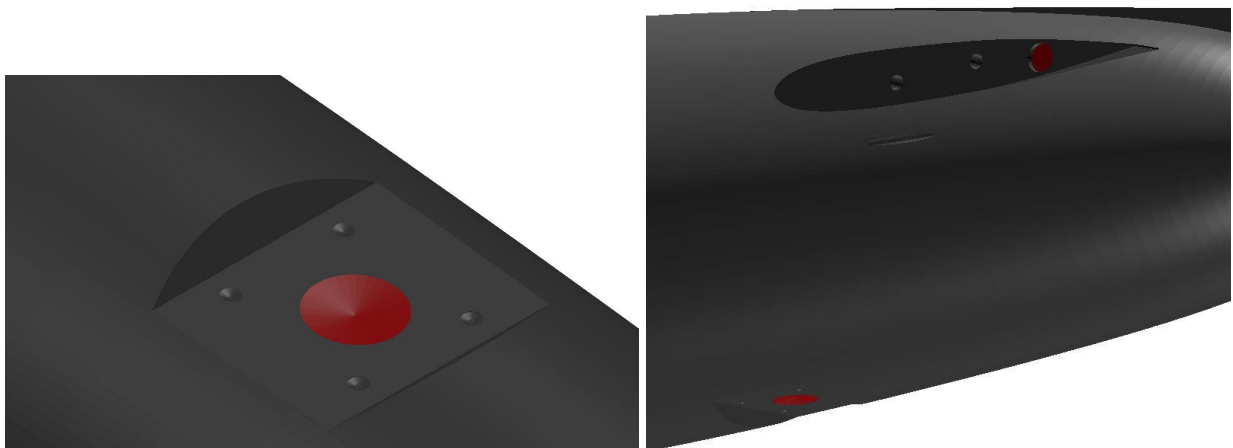
5

Once glued, with a sharp knife, remove the false floor of the battery hatch. (see pic/ highlighted faces)



6

From the rear of the fuselage, remove the indented circle areas where the tail wheel will mount and where the elevator torque tube will pass through. (highlighted in red)





7

Glue the sections of the canopy together and install the magnets to the canopy and fuselage using CA.

8

Install the elevator and rudder servo's.

9

Glue the elevator sections together using CA. (run a 1mm drill bit through the control arm push rod slot so that the push will easily mount.)

10

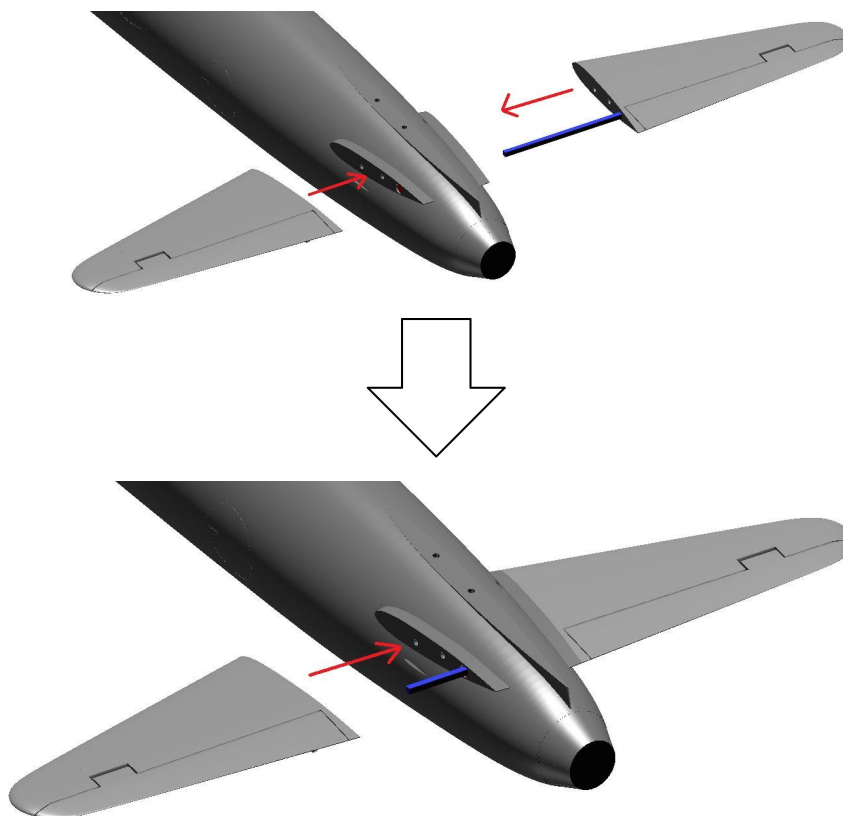
Glue the horizontal stabilizer sections together using CA.

11

Test fit the elevators to the horizontal stabilizers using the nylon pinned hinges. (they will need to be cut shorter to fit correctly) When satisfied with the fitment, secure the elevators to the stabilizers with CA. **NOTE:** Be sure that the CA is only inside the hinge slot. Wipe away any excess CA from the entrance otherwise the hinge will bind and render the part useless.

12

Cut a 100mm section of 3mm square carbon rod and insert it into the elevator. Test fit the horizontal stabilizer assembly to the rear of the fuselage.



**13**

Ensure that the elevator has unobstructed travel and that both move the same amount. There should be no play between the elevators and the torque tube.

**14**

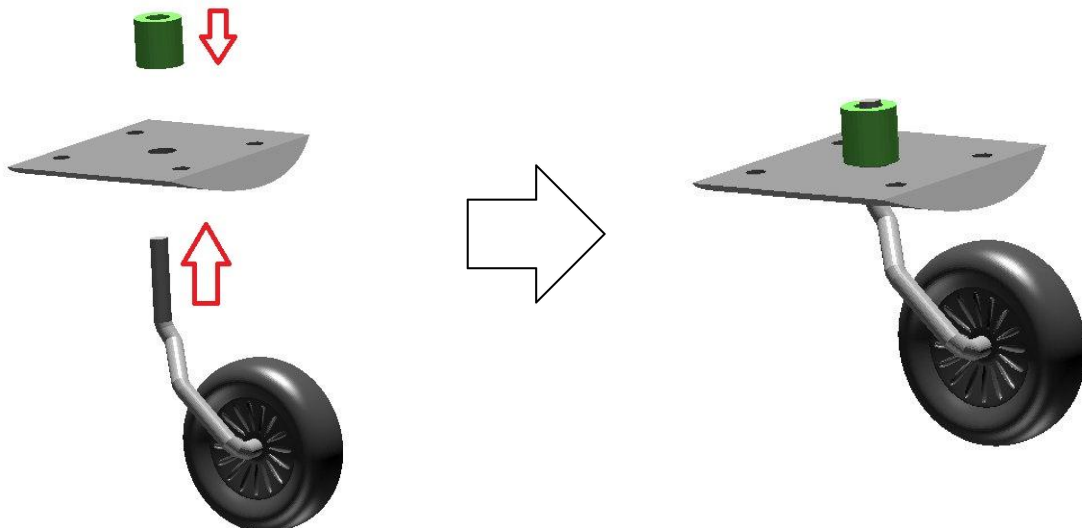
When satisfied with the fitment and movement of the elevator, install the pushrod and glue the horizontal stabilizer assembly to the fuselage using CA. (use 3mm skewer sections to align the stabilizers)

**15**

Repeat steps 9,10,11,13 and 14 for the vertical stabilizer and rudder.

**16**

Bend up the landing gear tail wheel axle using 2mm piano wire. Fit a 20mm foam wheel to the axle and install the axle into the tailwheel mount, securing it with an m2 stop collar.

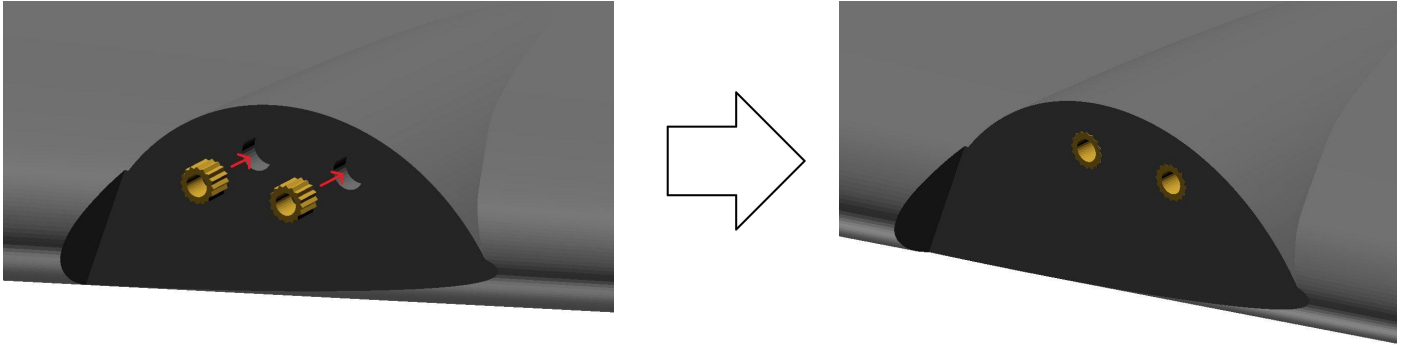
**17**

Install the tailwheel assembly into the fuselage using m2 screws.

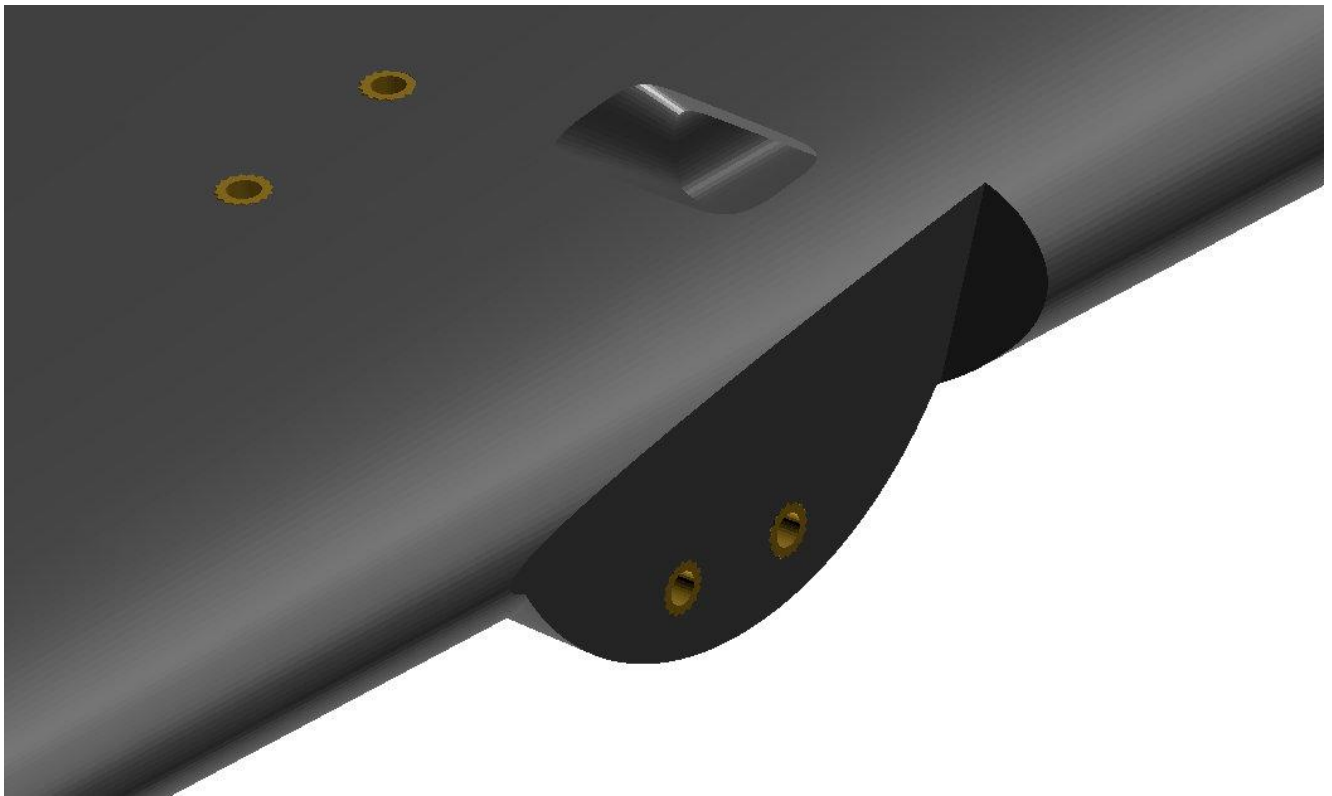
**18**

Glue the sections of the wings together using CA.

Using a soldering iron on low heat (if possible), press the brass inserts into the slots provided in the wings. This is done by sitting the insert over the slot and then pushing the head of the soldering iron into the hole of the insert. As the brass insert heats up, it will slowly melt its way into the slot. (the inserts should be flush with the surface of the wing, THEY SHOULD NOT SIT UP ABOVE THE SURFACE).



**INSTALLED CORRECTLY**



20

Glue the section of the nacelles together.

21

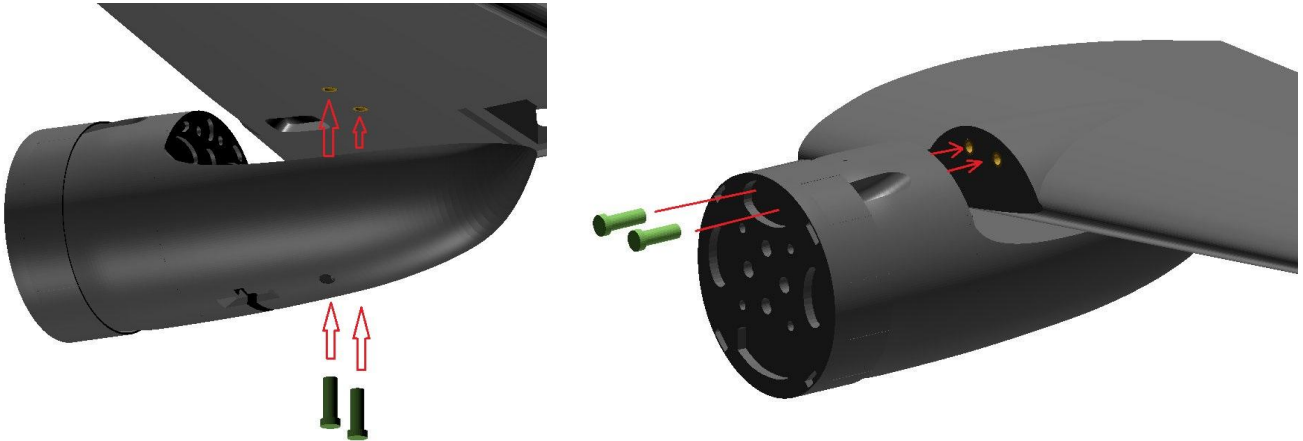
Remove the sections marked in red from the nacelles. These are:

- the holes for the esc wires
- mounting holes for the nacelle to the wings.
- Access for the screwdriver to reach aforementioned bolts.



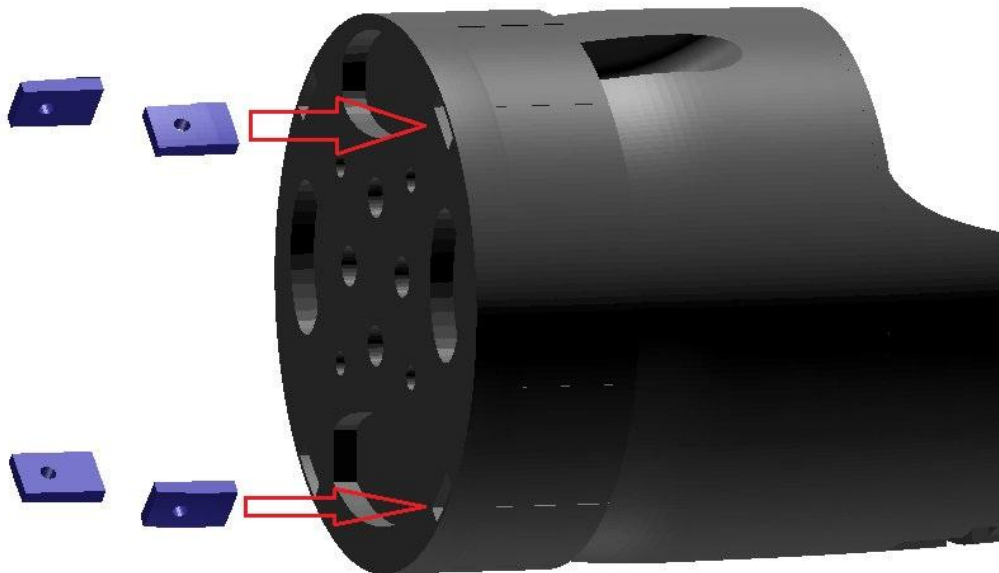
22

Fit the nacelles to the wings using m3 x 10mm bolts. Install the vertical bolts first.



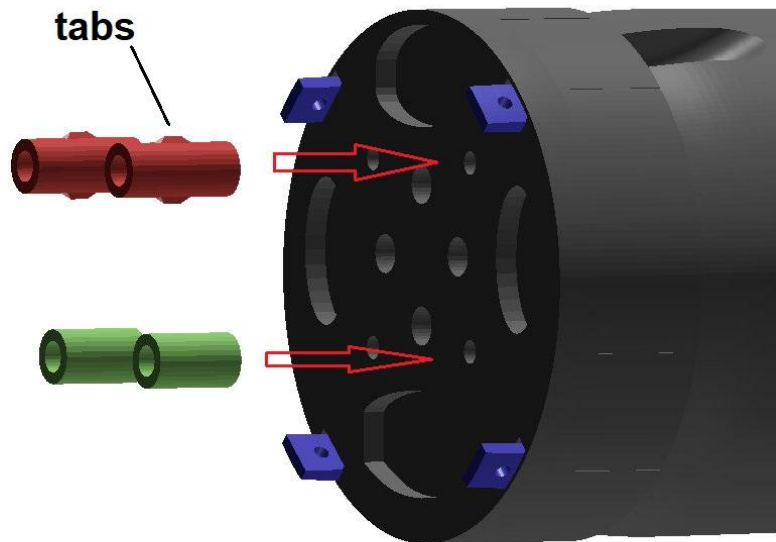
23

Install the cowling mount plates using CA.



**24**

Install the motors using m3 x 25mm screws and the motor offset mounts as pictured below. (the mounts with the tabs are longer must be installed in the top two holes)

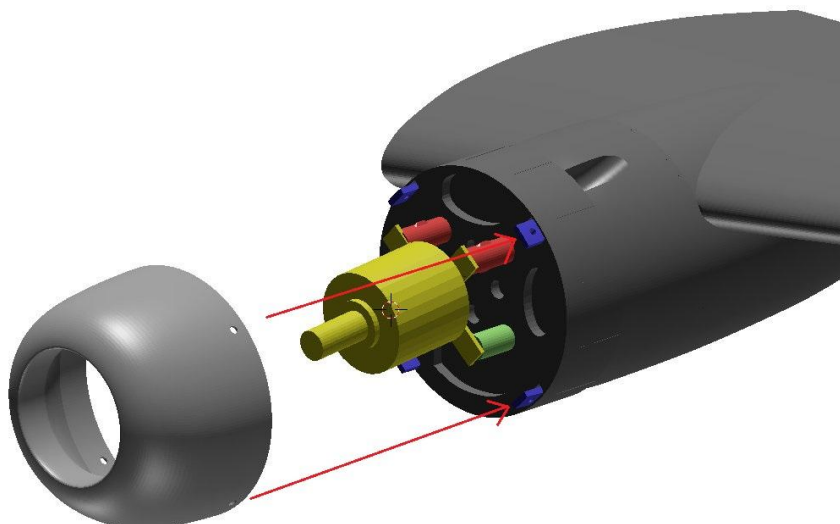


**25**

Connect up the esc to the motor and place it inside the nacelle, running the esc wires into the fuselage.

**26**

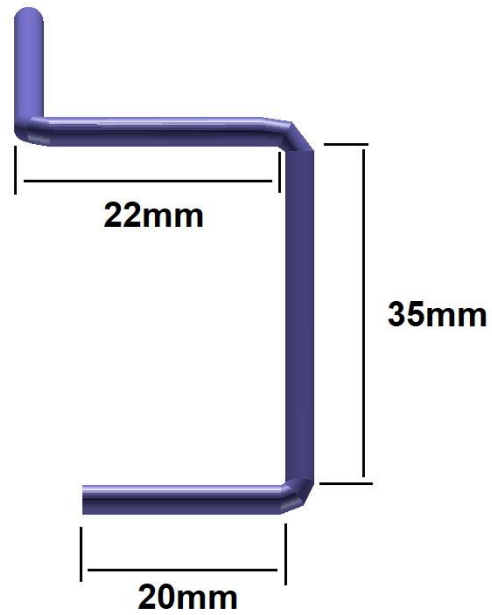
Install the cowling using m2 x 5mm screws. (the seam in the print indicated the underside of the cowling)



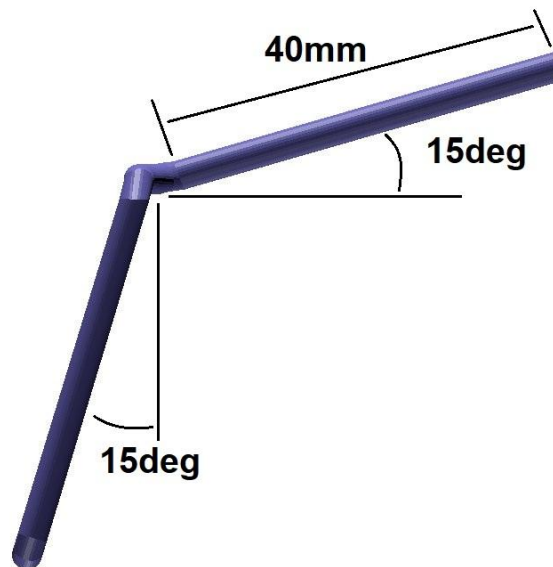
27

Bend up a 120mm length of 3mm steel wire for the main landing gear leg.

TOP VIEW

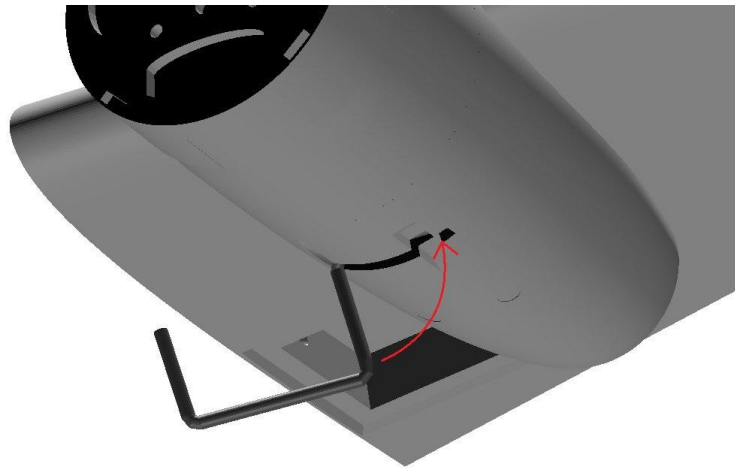
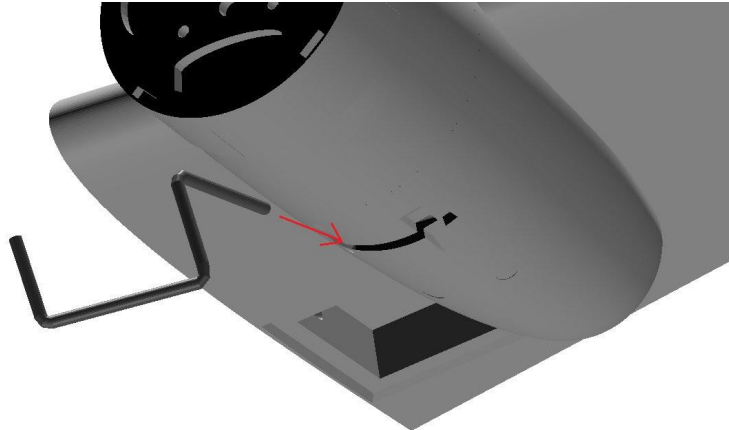


SIDE VIEW

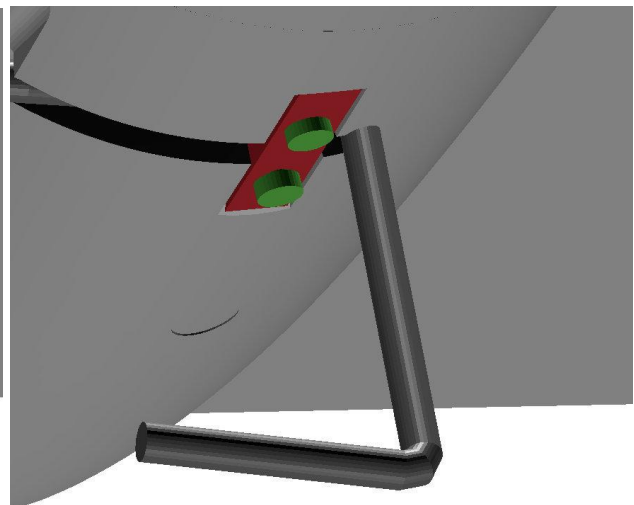
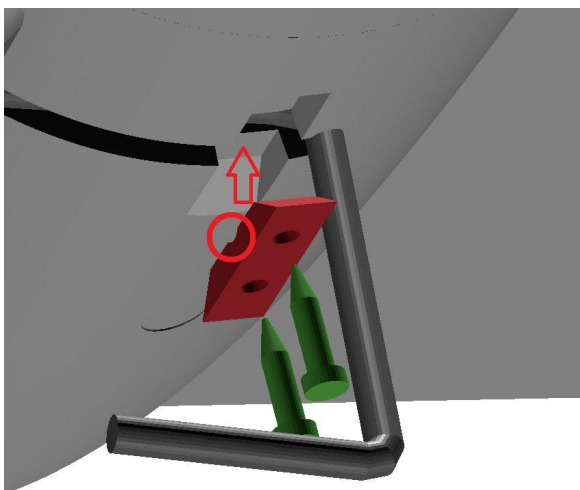




Secure the gear leg with the printed “Gear lock” using m2 screws and fit a 50mm foam wheel and secure with either an M3 wheel stop collar.



**ENSURE THE NARROW EDGE OF THE GEAR LOCK FACES TOWARDS THE FUSELAGE (CIRCLED IN RED BELOW)**



**29**

Glue the sections of the ailerons and flaps together using CA. (run a 1mm drill bit through the control arm push rod slot so that the push will easily mount.)

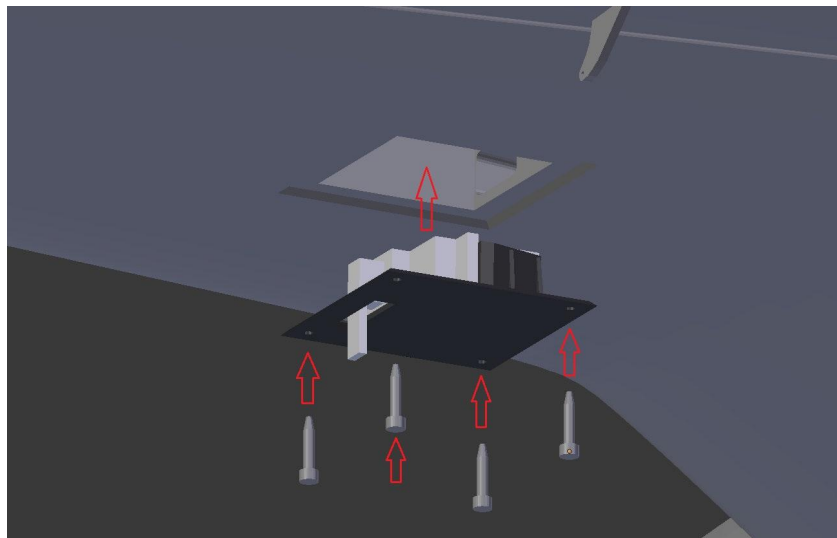
**30**

Glue the ailerons and flaps to the wings with nylon pinned hinges using CA.

**NOTE:** Be sure that the CA is only inside the hinge slot. Wipe away any excess CA from the entrance otherwise the hinge will bind and render the part useless.

**31**

Install the servos for the ailerons and flaps into the mount plates provided. Secure them into the wing using m2 screws.



**32**

Connect up the ailerons and flaps to the servos using 1mm piano wire. **(The flap servos will need to be programmed on separate channels to operate together.)**

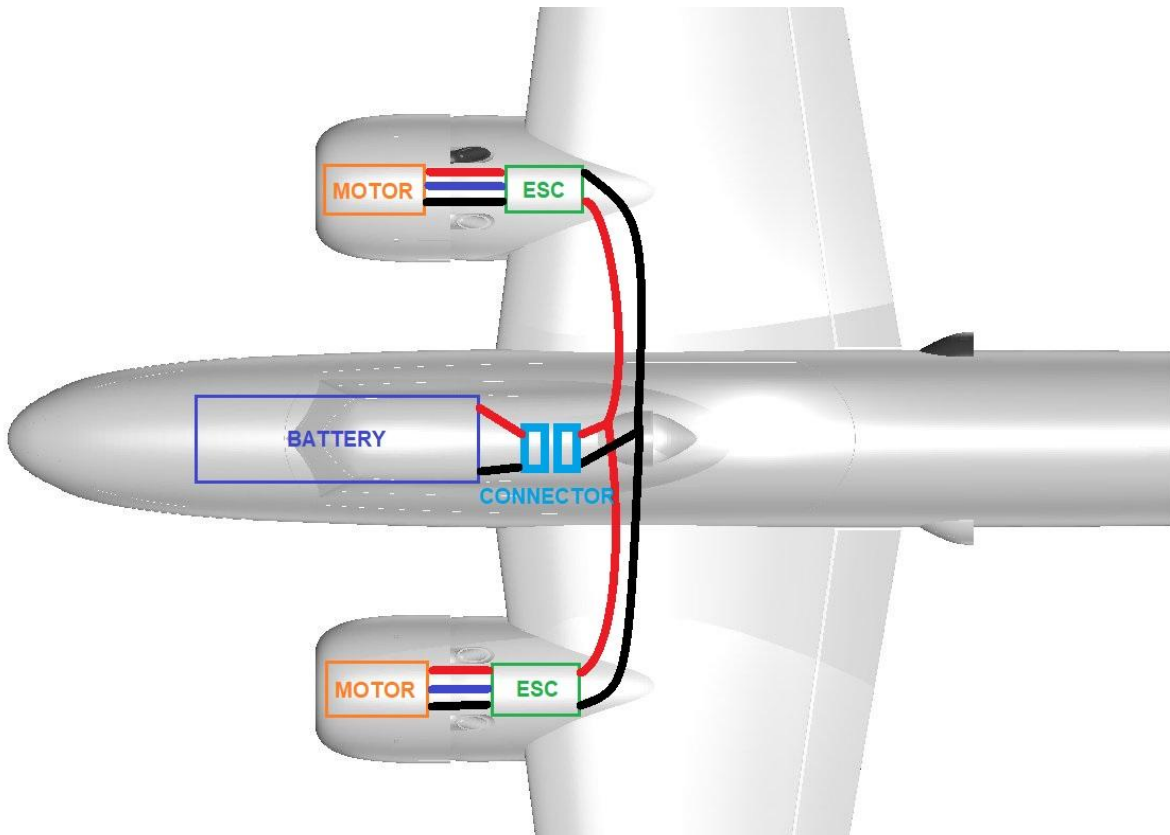
**33**

Install the 10mm carbon tube (cut to 40cm) and glue the wings to the fuselage using CA.

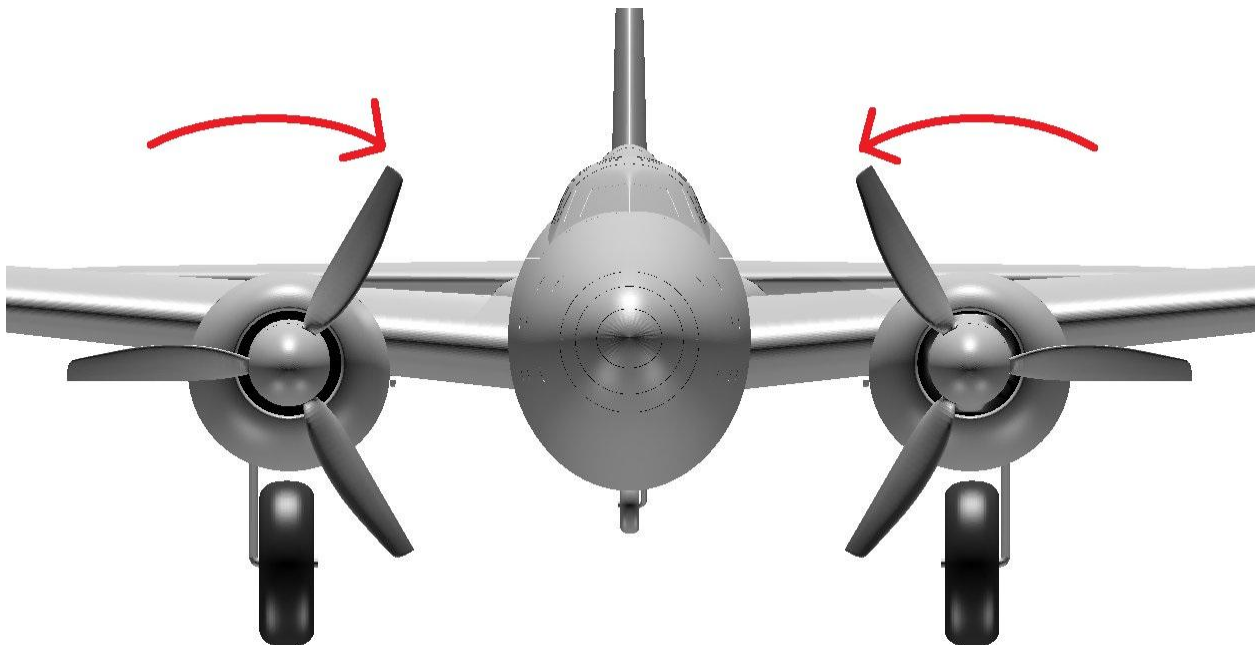
**34**

Secure the waist gunner windshields and exhausts in place using CA.

Solder up the esc wires from each wing together so that a single battery can be connected.



Ensure that the motors turn towards the fuselage when viewed from the front



## **BALANCING AND CG**

Fit the battery using Velcro as required and balance the aircraft inverted on the CG marking points located **46mm aft of the leading edge at the wing root.**

## **RANGE OF TRAVEL:**

### **MAIDEN / NORMAL FLIGHT:**

Elevator      +/- 10mm

Rudder        +/- 20mm

Aileron        +/- 15mm

Flaps Take-off / Approach      10 degrees

Flaps Landing                      30 degrees

## **PARTS LINKS:**

X2 2826 2200kv motors

[https://de.aliexpress.com/item/1005004309127059.html?spm=a2g0o.productlist.0.0.47dc1c1dBQJRK0&algo\\_pvid=7cfcef11-5b4f-4def-bdc7-f9893f0f9fe7&algo\\_exp\\_id=7cfcef11-5b4f-4def-bdc7-f9893f0f9fe7-0&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000028704388178%22%7D&pdp\\_npi=2%40dis%21EUR%2161.95%2130.35%21%21%21%21%21%21%400b0a187916687027374241180efb6e%2112000028704388178%21sea&curPageLogUid=hanAq2RnlM8N](https://de.aliexpress.com/item/1005004309127059.html?spm=a2g0o.productlist.0.0.47dc1c1dBQJRK0&algo_pvid=7cfcef11-5b4f-4def-bdc7-f9893f0f9fe7&algo_exp_id=7cfcef11-5b4f-4def-bdc7-f9893f0f9fe7-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000028704388178%22%7D&pdp_npi=2%40dis%21EUR%2161.95%2130.35%21%21%21%21%21%21%400b0a187916687027374241180efb6e%2112000028704388178%21sea&curPageLogUid=hanAq2RnlM8N)

X2 30amp esc (min)

[https://de.aliexpress.com/item/32905648461.html?spm=a2g0o.productlist.0.0.29df3ca8nbUUYs&algo\\_pvid=2e44a516-e016-411d-9452-54ad9ae6747f&algo\\_exp\\_id=2e44a516-e016-411d-9452-54ad9ae6747f-0&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2267387162476%22%7D&pdp\\_npi=2%40dis%21EUR%215.08%214.68%21%21%21%21%21%21%400b0a187916687027652301767efb6e%2167387162476%21sea&curPageLogUid=Bvwa3NVm8DXo](https://de.aliexpress.com/item/32905648461.html?spm=a2g0o.productlist.0.0.29df3ca8nbUUYs&algo_pvid=2e44a516-e016-411d-9452-54ad9ae6747f&algo_exp_id=2e44a516-e016-411d-9452-54ad9ae6747f-0&pdp_ext_f=%7B%22sku_id%22%3A%2267387162476%22%7D&pdp_npi=2%40dis%21EUR%215.08%214.68%21%21%21%21%21%21%400b0a187916687027652301767efb6e%2167387162476%21sea&curPageLogUid=Bvwa3NVm8DXo)

X1 22000mah 3s LIPO OR SIMILAR (165g)

[https://de.aliexpress.com/item/1005004439188533.html?spm=a2g0o.productlist.0.0.4494480aHafZ2Z&algo\\_pvid=d23c0bca-61c8-4d5e-97fc-3c156760265d&algo\\_exp\\_id=d23c0bca-61c8-4d5e-97fc-3c156760265d-0&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000029184274602%22%7D&pdp\\_npi=2%40dis%21EUR%2127.82%2117.24%21%21%21%21%21%21%400b0a187916687027826132071efb6e%2112000029184274602%21sea&curPageLogUid=D4GD8AhtX7dq](https://de.aliexpress.com/item/1005004439188533.html?spm=a2g0o.productlist.0.0.4494480aHafZ2Z&algo_pvid=d23c0bca-61c8-4d5e-97fc-3c156760265d&algo_exp_id=d23c0bca-61c8-4d5e-97fc-3c156760265d-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000029184274602%22%7D&pdp_npi=2%40dis%21EUR%2127.82%2117.24%21%21%21%21%21%21%400b0a187916687027826132071efb6e%2112000029184274602%21sea&curPageLogUid=D4GD8AhtX7dq)

X6 9g Micro servo

[https://hobbyking.com/en\\_us/turnigytm-tg9d-digital-micro-servo-1-8kg-0-09sec-9g.html?queryID=a8983ae1025df1416013ffd44069797e&objectID=41779&indexName=hbk\\_live\\_products\\_analytics](https://hobbyking.com/en_us/turnigytm-tg9d-digital-micro-servo-1-8kg-0-09sec-9g.html?queryID=a8983ae1025df1416013ffd44069797e&objectID=41779&indexName=hbk_live_products_analytics)

X1 20mm foam wheel

[https://de.aliexpress.com/item/4000849518141.html?spm=a2g0o.productlist.0.0.6aae7569xrOFKi&algo\\_pvid=69be63b7-54c7-4f65-bc06-669f824eca02&algo\\_exp\\_id=69be63b7-54c7-4f65-bc06-669f824eca02-1&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2210000009362826979%22%7D&pdp\\_npi=2%40dis%21EUR%213.24%213.24%21%21%21%21%21%21%400b0a187916687028338853497efb6e%2110000009362826979%21sea&curPageLogUid=ccGamnYaGRqB](https://de.aliexpress.com/item/4000849518141.html?spm=a2g0o.productlist.0.0.6aae7569xrOFKi&algo_pvid=69be63b7-54c7-4f65-bc06-669f824eca02&algo_exp_id=69be63b7-54c7-4f65-bc06-669f824eca02-1&pdp_ext_f=%7B%22sku_id%22%3A%2210000009362826979%22%7D&pdp_npi=2%40dis%21EUR%213.24%213.24%21%21%21%21%21%21%400b0a187916687028338853497efb6e%2110000009362826979%21sea&curPageLogUid=ccGamnYaGRqB)

X2 50mm foam wheel

[https://de.aliexpress.com/item/32348136698.html?spm=a2g0o.productlist.0.0.355929beihrfAZ&algo\\_pvid=d4603fde-938c-4ed0-aac0-91280edb96fb&algo\\_exp\\_id=d4603fde-938c-4ed0-aac0-91280edb96fb-6&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2251762520140%22%7D&pdp\\_npi=2%40dis%21EUR%217.84%216.59%21%21%21%21%21%21%400b0a187916687028823685009efb6e%2151762520140%21sea&curPageLogUid=zxjel1ljvxam](https://de.aliexpress.com/item/32348136698.html?spm=a2g0o.productlist.0.0.355929beihrfAZ&algo_pvid=d4603fde-938c-4ed0-aac0-91280edb96fb&algo_exp_id=d4603fde-938c-4ed0-aac0-91280edb96fb-6&pdp_ext_f=%7B%22sku_id%22%3A%2251762520140%22%7D&pdp_npi=2%40dis%21EUR%217.84%216.59%21%21%21%21%21%21%400b0a187916687028823685009efb6e%2151762520140%21sea&curPageLogUid=zxjel1ljvxam)

X4 10mm X 10mm X 2mm Magnet (ROUND)

[https://www.aliexpress.com/item/1005001362617359.html?spm=a2g0o.productlist.0.0.5da3607dAATh5j&algo\\_pvid=b9e32b8a-0d4f-469a-b838-b478442dda50&algo\\_exp\\_id=b9e32b8a-0d4f-469a-b838-b478442dda50-0&btsid=0bb0623a15991797178681785e1811&ws\\_ab\\_test=searchweb0\\_0.searchweb201602\\_searchweb201603](https://www.aliexpress.com/item/1005001362617359.html?spm=a2g0o.productlist.0.0.5da3607dAATh5j&algo_pvid=b9e32b8a-0d4f-469a-b838-b478442dda50&algo_exp_id=b9e32b8a-0d4f-469a-b838-b478442dda50-0&btsid=0bb0623a15991797178681785e1811&ws_ab_test=searchweb0_0.searchweb201602_searchweb201603)

X10 16mm x 19mm nylon pinned hinge

[https://de.aliexpress.com/item/4000469224482.html?spm=a2g0o.productlist.0.0.570479e22CQgkV&algo\\_pvid=d804e290-4afb-41fc-8ab7-d0473114b882&algo\\_exp\\_id=d804e290-4afb-41fc-8ab7-d0473114b882-5&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%221000001887809038%22%7D&pdp\\_npi=2%40dis%21EUR%212.09%211.65%21%21%212.01%21%21%400b0a187916687029135985457efb6e%211000001887809038%21sea&curPageLogUid=AsTXYSLHNnHc](https://de.aliexpress.com/item/4000469224482.html?spm=a2g0o.productlist.0.0.570479e22CQgkV&algo_pvid=d804e290-4afb-41fc-8ab7-d0473114b882&algo_exp_id=d804e290-4afb-41fc-8ab7-d0473114b882-5&pdp_ext_f=%7B%22sku_id%22%3A%221000001887809038%22%7D&pdp_npi=2%40dis%21EUR%212.09%211.65%21%21%212.01%21%21%400b0a187916687029135985457efb6e%211000001887809038%21sea&curPageLogUid=AsTXYSLHNnHc)

X1 Carbon tube 10mm x 8mm x 500mm

[https://de.aliexpress.com/item/1005002215027192.html?spm=a2g0o.productlist.0.0.59c98b95SF4vp&algo\\_pvid=b9bb2bb8-1dee-487f-9653-74dbd2422ed9&algo\\_exp\\_id=b9bb2bb8-1dee-487f-9653-74dbd2422ed9-5&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000019323119988%22%7D&pdp\\_npi=2%40dis%21EUR%217.6%210.69%21%21%21%21%402100bddb16687031143892705eb864%2112000019323119988%21sea&curPageLogUid=7NZc3APMVLWZ](https://de.aliexpress.com/item/1005002215027192.html?spm=a2g0o.productlist.0.0.59c98b95SF4vp&algo_pvid=b9bb2bb8-1dee-487f-9653-74dbd2422ed9&algo_exp_id=b9bb2bb8-1dee-487f-9653-74dbd2422ed9-5&pdp_ext_f=%7B%22sku_id%22%3A%2212000019323119988%22%7D&pdp_npi=2%40dis%21EUR%217.6%210.69%21%21%21%21%402100bddb16687031143892705eb864%2112000019323119988%21sea&curPageLogUid=7NZc3APMVLWZ)

X1 Carbon square rod 3mm x 100mm (100mm min length)

[https://de.aliexpress.com/item/1005002475812331.html?spm=a2g0o.detail.1000014.4.6b76fc59ZuKois&gps-id=pcDetailBottomMoreOtherSeller&scm=1007.40050.281175.0&scm\\_id=1007.40050.281175.0&scm-url=1007.40050.281175.0&pvid=cdb42db3-1fdd-4fd4-af4d-63e079c32078&t=pcDetailBottomMoreOtherSeller,scm-url:1007.40050.281175.0,pvid:cdb42db3-1fdd-4fd4-af4d-63e079c32078,tpb\\_buckets:668%232846%238114%231999&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000020786026365%22%2C%22sceneId%22%3A%2230050%22%7D&pdp\\_npi=2%40dis%21EUR%214.18%214.18%21%21%21%21%40211b442216687033449214069e5428%2112000020786026365%21rec](https://de.aliexpress.com/item/1005002475812331.html?spm=a2g0o.detail.1000014.4.6b76fc59ZuKois&gps-id=pcDetailBottomMoreOtherSeller&scm=1007.40050.281175.0&scm_id=1007.40050.281175.0&scm-url=1007.40050.281175.0&pvid=cdb42db3-1fdd-4fd4-af4d-63e079c32078&t=pcDetailBottomMoreOtherSeller,scm-url:1007.40050.281175.0,pvid:cdb42db3-1fdd-4fd4-af4d-63e079c32078,tpb_buckets:668%232846%238114%231999&pdp_ext_f=%7B%22sku_id%22%3A%2212000020786026365%22%2C%22sceneId%22%3A%2230050%22%7D&pdp_npi=2%40dis%21EUR%214.18%214.18%21%21%21%21%40211b442216687033449214069e5428%2112000020786026365%21rec)

X2 1.5mm Piano wire (500mm min length)

[https://de.aliexpress.com/item/32975187998.html?spm=a2g0o.productlist.0.0.628216abMynFqb&algo\\_pvid=895a5442-dff5-47a0-ae9a-c837cdeb79b4&algo\\_exp\\_id=895a5442-dff5-47a0-ae9a-c837cdeb79b4-1&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2266637719709%22%7D&pdp\\_npi=2%40dis%21EUR%217.83%217.83%21%21%21%21%402100bddb16687034044814917eb864%2166637719709%21sea&curPageLogUid=RIMwpAAqp0Yd](https://de.aliexpress.com/item/32975187998.html?spm=a2g0o.productlist.0.0.628216abMynFqb&algo_pvid=895a5442-dff5-47a0-ae9a-c837cdeb79b4&algo_exp_id=895a5442-dff5-47a0-ae9a-c837cdeb79b4-1&pdp_ext_f=%7B%22sku_id%22%3A%2266637719709%22%7D&pdp_npi=2%40dis%21EUR%217.83%217.83%21%21%21%21%402100bddb16687034044814917eb864%2166637719709%21sea&curPageLogUid=RIMwpAAqp0Yd)

X1 M2 steel rod 100mm (or similar)

<https://de.aliexpress.com/item/4000682811650.html?spm=a2g0o.9042311.0.0.27424c4dO7QvIJ>

X1 M3 steel rod 100mm (or similar)

[https://de.aliexpress.com/item/32427862310.html?spm=a2g0o.productlist.0.0.3a411e19zksM6B&algo\\_pvid=37887bbd-addd-472e-87fd-24f37a464e36&algo\\_exp\\_id=37887bbd-addd-472e-87fd-24f37a464e36-6&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000020890923282%22%7D&pdp\\_npi=2%40dis%21EUR%213.44%211.72%21%21%211.17%21%21%402100bddb16687034315504966eb864%2112000020890923282%21sea&curPageLogUid=tgisYBAQTNwi](https://de.aliexpress.com/item/32427862310.html?spm=a2g0o.productlist.0.0.3a411e19zksM6B&algo_pvid=37887bbd-addd-472e-87fd-24f37a464e36&algo_exp_id=37887bbd-addd-472e-87fd-24f37a464e36-6&pdp_ext_f=%7B%22sku_id%22%3A%2212000020890923282%22%7D&pdp_npi=2%40dis%21EUR%213.44%211.72%21%21%211.17%21%21%402100bddb16687034315504966eb864%2112000020890923282%21sea&curPageLogUid=tgisYBAQTNwi)

X2 M2 Wheel stop collar

[https://de.aliexpress.com/item/32367176766.html?spm=a2g0o.productlist.0.0.103f8bdcGo69MK&algo\\_pvid=269e7532-755e-49b1-963f-c5fc23d25ace&algo\\_exp\\_id=269e7532-755e-49b1-963f-c5fc23d25ace-2&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2266304162649%22%7D&pdp\\_pi=-1%3B2.18%3B-1%3BEUR+5.01%40salePrice%3BEUR%3Bsearch-mainSearch](https://de.aliexpress.com/item/32367176766.html?spm=a2g0o.productlist.0.0.103f8bdcGo69MK&algo_pvid=269e7532-755e-49b1-963f-c5fc23d25ace&algo_exp_id=269e7532-755e-49b1-963f-c5fc23d25ace-2&pdp_ext_f=%7B%22sku_id%22%3A%2266304162649%22%7D&pdp_pi=-1%3B2.18%3B-1%3BEUR+5.01%40salePrice%3BEUR%3Bsearch-mainSearch)

### X2 M3 Wheel stop collar

[https://de.aliexpress.com/item/1005003321096391.html?spm=a2g0o.productlist.0.0.44723970r5PShx&algo\\_pvid=58cfd2e2-efdf-4bc7-a1eb-99157a10e521&algo\\_exp\\_id=58cfd2e2-efdf-4bc7-a1eb-99157a10e521-0&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000025201264662%22%7D&pdp\\_npi=2%40dis%21EUR%211.25%211.25%21%21%212.14%21%21%402100bddb16687034698165063eb864%2112000025201264662%21sea&curPageLogUid=WIBMd2vWIhns](https://de.aliexpress.com/item/1005003321096391.html?spm=a2g0o.productlist.0.0.44723970r5PShx&algo_pvid=58cfd2e2-efdf-4bc7-a1eb-99157a10e521&algo_exp_id=58cfd2e2-efdf-4bc7-a1eb-99157a10e521-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000025201264662%22%7D&pdp_npi=2%40dis%21EUR%211.25%211.25%21%21%212.14%21%21%402100bddb16687034698165063eb864%2112000025201264662%21sea&curPageLogUid=WIBMd2vWIhns)

### X8 M3 Threaded inserts

[https://de.aliexpress.com/item/1005001511975610.html?spm=a2g0o.productlist.0.0.61ebc8a6OMqxDP&algo\\_pvid=7ff93155-99e6-499a-97c2-e31155121995&algo\\_exp\\_id=7ff93155-99e6-499a-97c2-e31155121995-0&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000022671830483%22%7D&pdp\\_npi=2%40dis%21EUR%216.12%214.59%21%21%210.43%21%21%402100bddb16687034867935224eb864%2112000022671830483%21sea&curPageLogUid=QrgeU4hyANUb](https://de.aliexpress.com/item/1005001511975610.html?spm=a2g0o.productlist.0.0.61ebc8a6OMqxDP&algo_pvid=7ff93155-99e6-499a-97c2-e31155121995&algo_exp_id=7ff93155-99e6-499a-97c2-e31155121995-0&pdp_ext_f=%7B%22sku_id%22%3A%2212000022671830483%22%7D&pdp_npi=2%40dis%21EUR%216.12%214.59%21%21%210.43%21%21%402100bddb16687034867935224eb864%2112000022671830483%21sea&curPageLogUid=QrgeU4hyANUb)

### X8 M3 x 10mm bolts

[https://de.aliexpress.com/item/32971605141.html?spm=a2g0o.productlist.0.0.4a004d95UXIPCz&algo\\_pvid=c80754ad-c1a7-4686-a8c4-ee18ab408439&algo\\_exp\\_id=c80754ad-c1a7-4686-a8c4-ee18ab408439-2&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000024219188183%22%7D&pdp\\_npi=2%40dis%21EUR%211.42%211.13%21%21%21%21%402100bddb16687035095415369eb864%2112000024219188183%21sea&curPageLogUid=IZGdyDXYrwiP](https://de.aliexpress.com/item/32971605141.html?spm=a2g0o.productlist.0.0.4a004d95UXIPCz&algo_pvid=c80754ad-c1a7-4686-a8c4-ee18ab408439&algo_exp_id=c80754ad-c1a7-4686-a8c4-ee18ab408439-2&pdp_ext_f=%7B%22sku_id%22%3A%2212000024219188183%22%7D&pdp_npi=2%40dis%21EUR%211.42%211.13%21%21%21%21%402100bddb16687035095415369eb864%2112000024219188183%21sea&curPageLogUid=IZGdyDXYrwiP)

### X8 M3 x 25mm screws

[https://de.aliexpress.com/item/1005003981975435.html?spm=a2g0o.productlist.0.0.554131f3MB49Oq&algo\\_pvid=683b9a8c-c3c2-4d0a-a3e1-1e8e7cf6ba2b&algo\\_exp\\_id=683b9a8c-c3c2-4d0a-a3e1-1e8e7cf6ba2b-2&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2212000027634066381%22%7D&pdp\\_npi=2%40dis%21EUR%216.26%214.38%21%21%21%21%402100bddb16687035664885784eb864%2112000027634066381%21sea&curPageLogUid=kKWjrySGTWBm](https://de.aliexpress.com/item/1005003981975435.html?spm=a2g0o.productlist.0.0.554131f3MB49Oq&algo_pvid=683b9a8c-c3c2-4d0a-a3e1-1e8e7cf6ba2b&algo_exp_id=683b9a8c-c3c2-4d0a-a3e1-1e8e7cf6ba2b-2&pdp_ext_f=%7B%22sku_id%22%3A%2212000027634066381%22%7D&pdp_npi=2%40dis%21EUR%216.26%214.38%21%21%21%21%402100bddb16687035664885784eb864%2112000027634066381%21sea&curPageLogUid=kKWjrySGTWBm)

### CW and CCW 5x5 propeller

[https://de.aliexpress.com/item/32677833621.html?spm=a2g0o.productlist.0.0.28e64a75ofyY2B&algo\\_pvid=2147a626-acaf-49e7-82d9-050f0201b459&algo\\_exp\\_id=2147a626-acaf-49e7-82d9-050f0201b459-22&pdp\\_ext\\_f=%7B%22sku\\_id%22%3A%2266364835401%22%7D&pdp\\_npi=2%40dis%21EUR%2115.18%218.96%21%21%21%21%400b0a01f816687195972751703e58ff%2166364835401%21sea&curPageLogUid=6qLCEnxUtO79](https://de.aliexpress.com/item/32677833621.html?spm=a2g0o.productlist.0.0.28e64a75ofyY2B&algo_pvid=2147a626-acaf-49e7-82d9-050f0201b459&algo_exp_id=2147a626-acaf-49e7-82d9-050f0201b459-22&pdp_ext_f=%7B%22sku_id%22%3A%2266364835401%22%7D&pdp_npi=2%40dis%21EUR%2115.18%218.96%21%21%21%21%400b0a01f816687195972751703e58ff%2166364835401%21sea&curPageLogUid=6qLCEnxUtO79)



Thank you for supporting us! We hope you enjoy many hours of flying your G4M Betty. If you have any questions regarding the build process or set-up of your model, please contact us at:

[Aeroworks3d@outlook.com](mailto:Aeroworks3d@outlook.com)