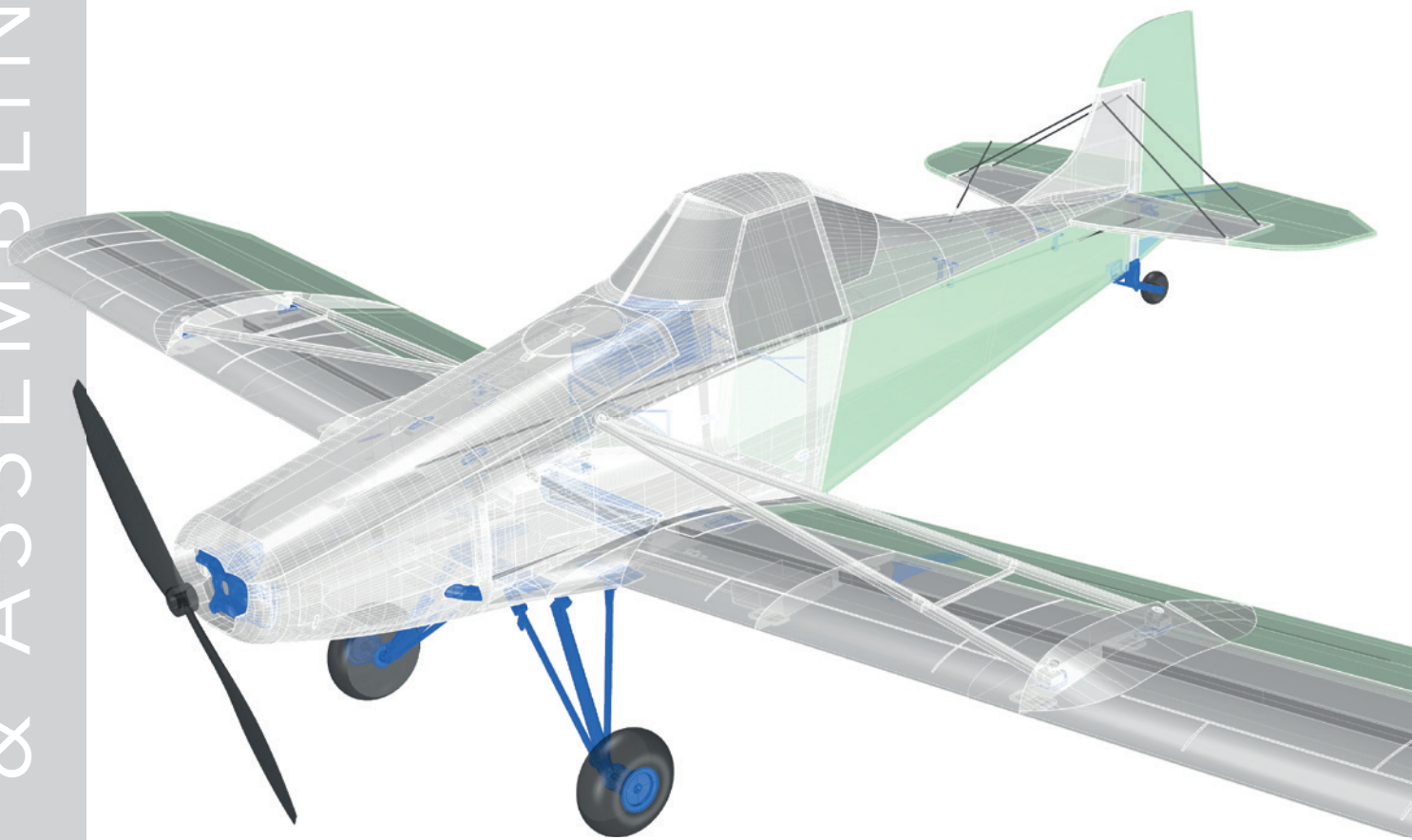


PLANE PRINT



PLANE PRINT *GA200* Gipp'sland

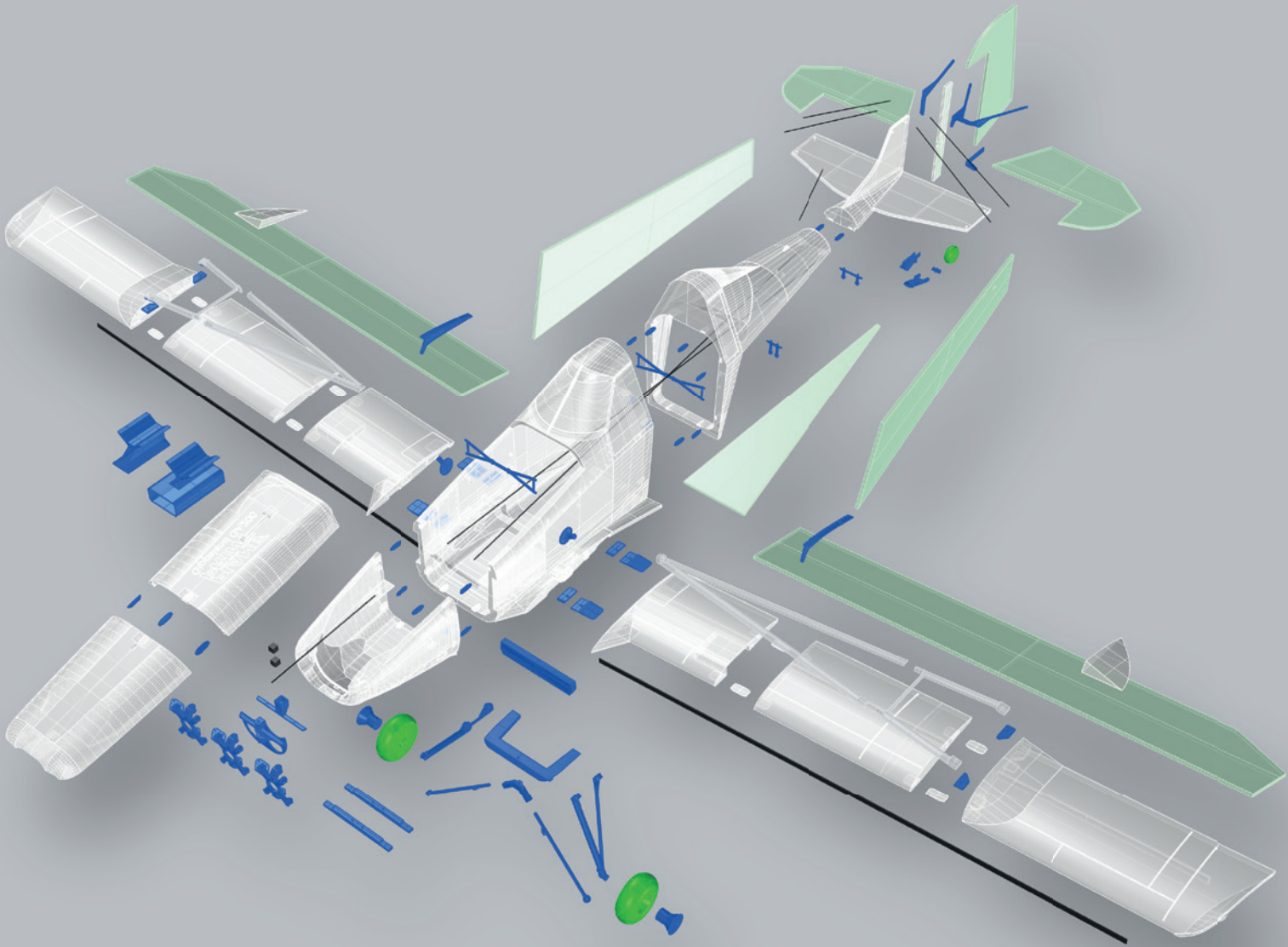
Ultra-lightweight Slow- and Parkflyer



www.planeprint.com

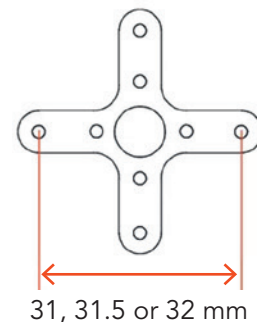
the **ONLY** place where you can get
original Planeprint STL files **legally!**

PLANE PRINT *Gippsland* GA200



■ LW-PLA ■ PLA ■ TPU ■ CARBON ■ FOAM

RC Components



MOTOR Pulsar Shocky Pro 2204
or comparable indoor-20 grams-motors

PROP 8x3.8, also possible 8x3, 8x4

BEC-CONTROLLER 15 A (one matching the motor)

BATTERY 2S LiPo-Akku, 400 - 600 mAh (Ideal weight max 35 grams)

RECEIVER 5 Channel (light indoor receiver)

SERVOS 4 Micro or Nano Servos for example:

- CHASERVO D S 06
- Hitec HS 40 Eco Servo 4,8g
- Diamond D47
- PLANET-HOBBY ECO PLUS
- Stemedu Micro 3.7g Servo GH-S37D
- PICCO 8 DIGITAL SERVO

Required accessoires – basic equipment

Links to recommended accessories can be found on
www.planeprint.com/gippsland (scroll down)

- LW-PLA (cannot be replaced by PLA or pre-foamed LW), ~200 grams
- PLA or Tough PLA, ~40 grams
- LW-TPU VarioShore, ~20 grams (Can be replaced by LW-PLA)

- CA super glue (liquid and medium)
- CA activator
- UHU POR glue (or another glue suitable for Depron)
- Foam board 3 mm **uncoated!*** (or Foam like Depron, Styropor or EPP, you can see how much you need on the next pages – Such boards are also available separately in model shops)
- Carbon fiber strip (flat profile) 1*5*1000mm, 1 piece
- Carbon rod $\varnothing 1*1000$ mm, 2 pieces
- Steel wire $\varnothing 0.8*300$ mm ($\varnothing 0.6$ also possible), 1 piece
- Rod connection small, 1 piece
- Neodym-Super-Magnet 5x5x5mm, 2 pieces
- hair elastic bands
- Adhesive tape
- Self adhesive velcro tape

* These parts cannot be printed for weight reasons, LW PLA is much heavier than foam.



Hair elastic bands

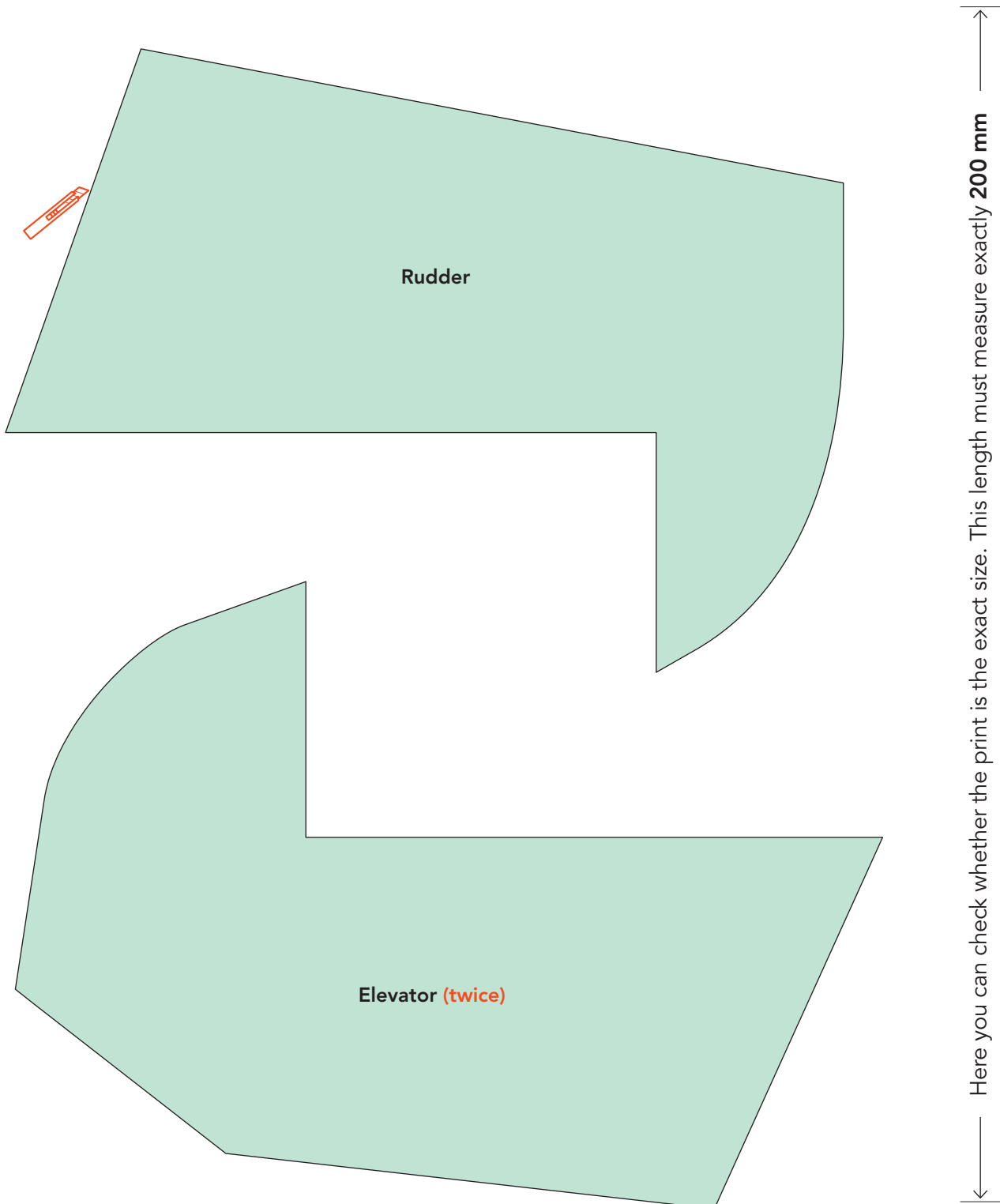


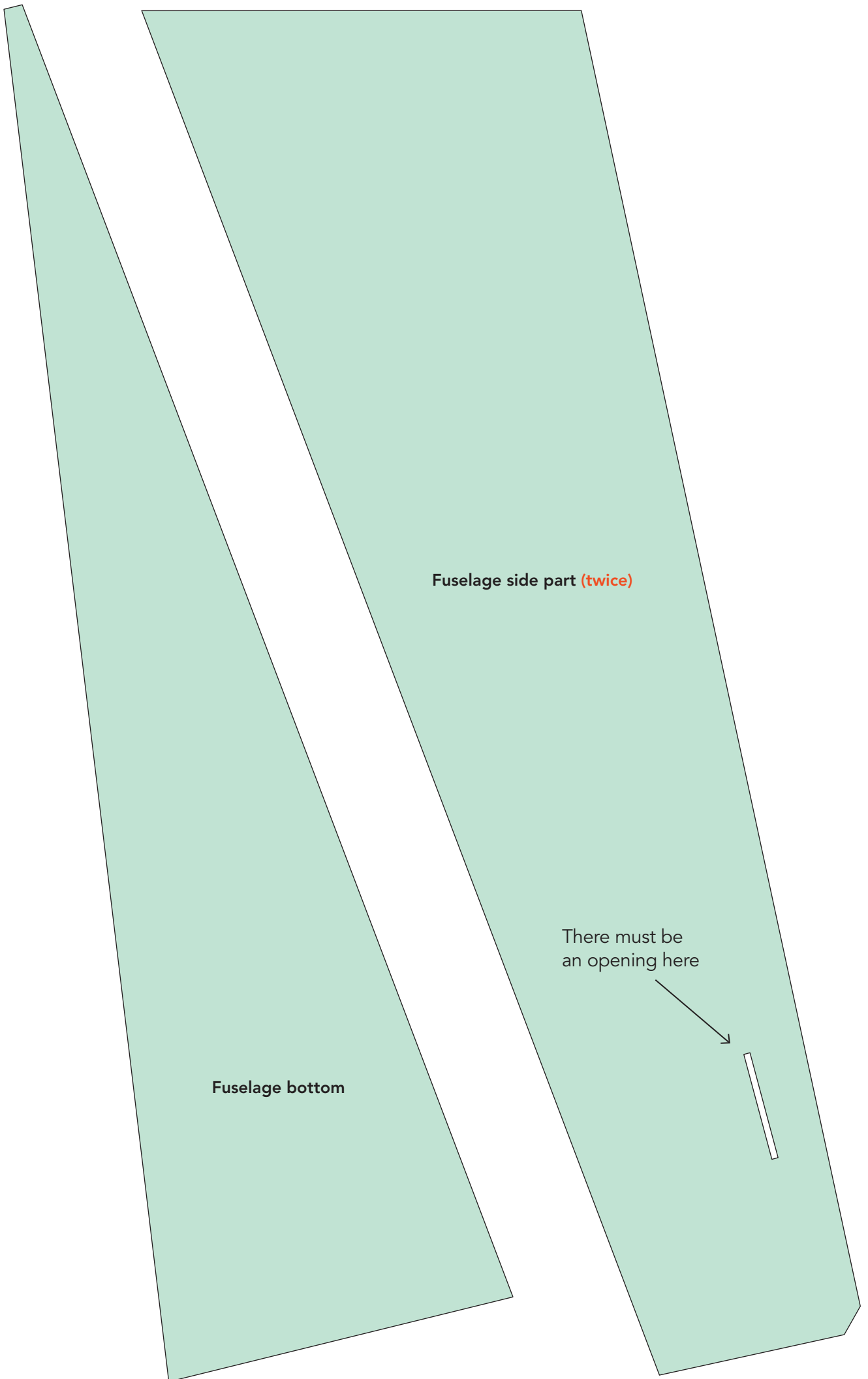
Rod connection hole 1 mm

Cutting template for the Foam parts

Print out these pages on A4 paper and cut out the templates. For the Aileron, cut them out along the red dotted line and glue the parts together exactly. Attach them to the foam board and cut the foam parts with a sharp knife.

IMPORTANT The print must be set to 100% page size, so that the size fits exactly!



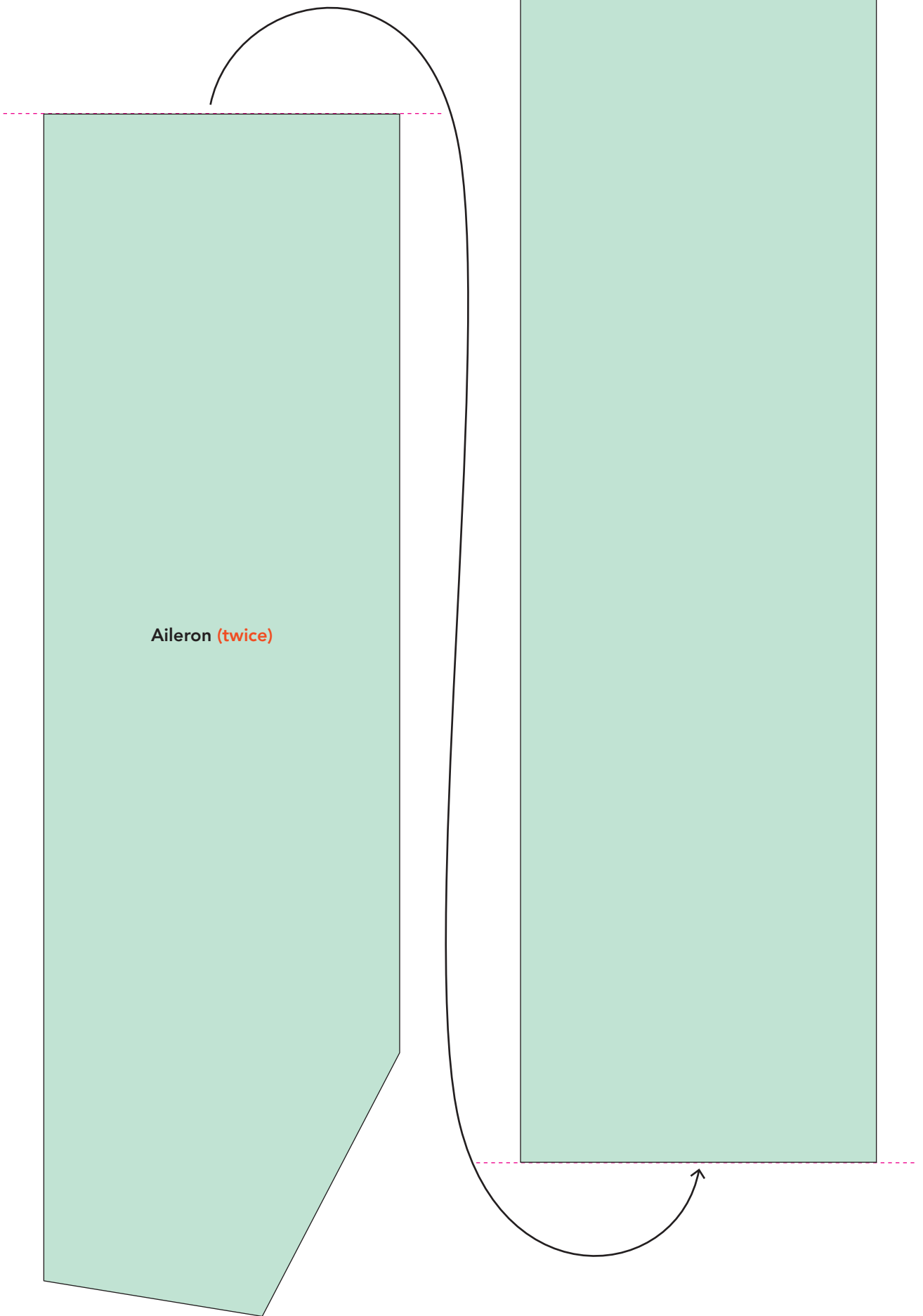


Fuselage side part (twice)

Fuselage bottom

There must be an opening here

Glue the template together first





The development of a complex, airworthy RC flight model to express on any standard 3D printer is a very extensive process. **Therefore, we appeal to your fairness not to forward the STL data you have acquired to third parties.**

Thank you for your understanding and have fun with your PLANEPRINT MODEL!

Printing the parts – Printing profiles

This manual is constantly being improved and supplemented, we recommend downloading the **latest version** from our website **before building**.

To print all **PLANEPRINT** models **you need to set some basic profiles in Cura** (If you use another slicer, please set the same parameters).

You can find the description at www.planepprint.com/print

For this model you need the following profiles:



PROFILE P1_Fullbody Tough PLA or PLA



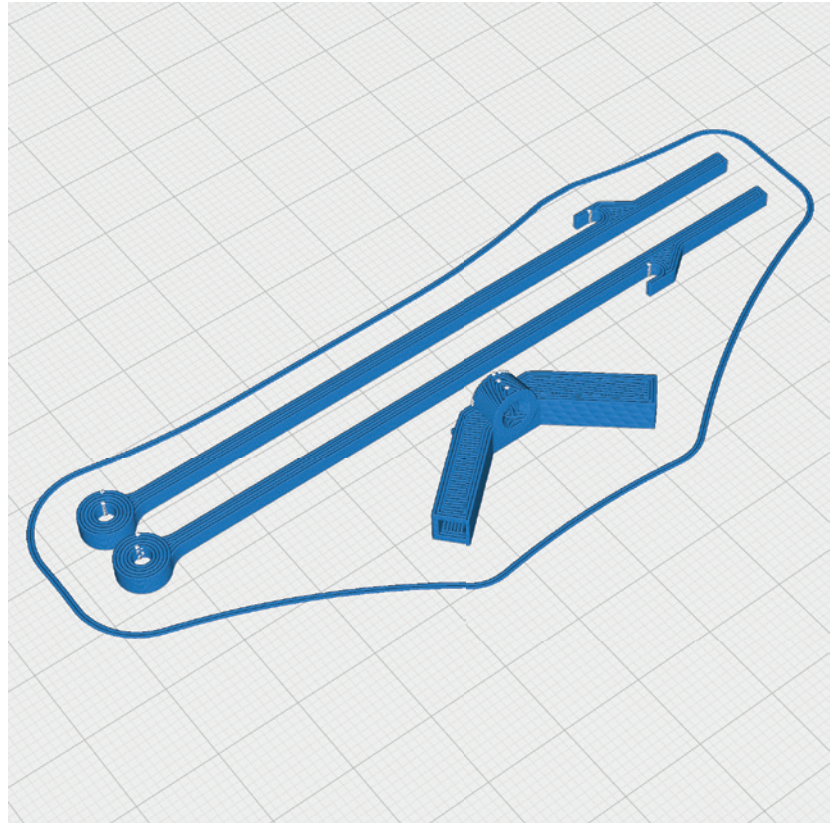
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P1_Gear struts-gi.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required

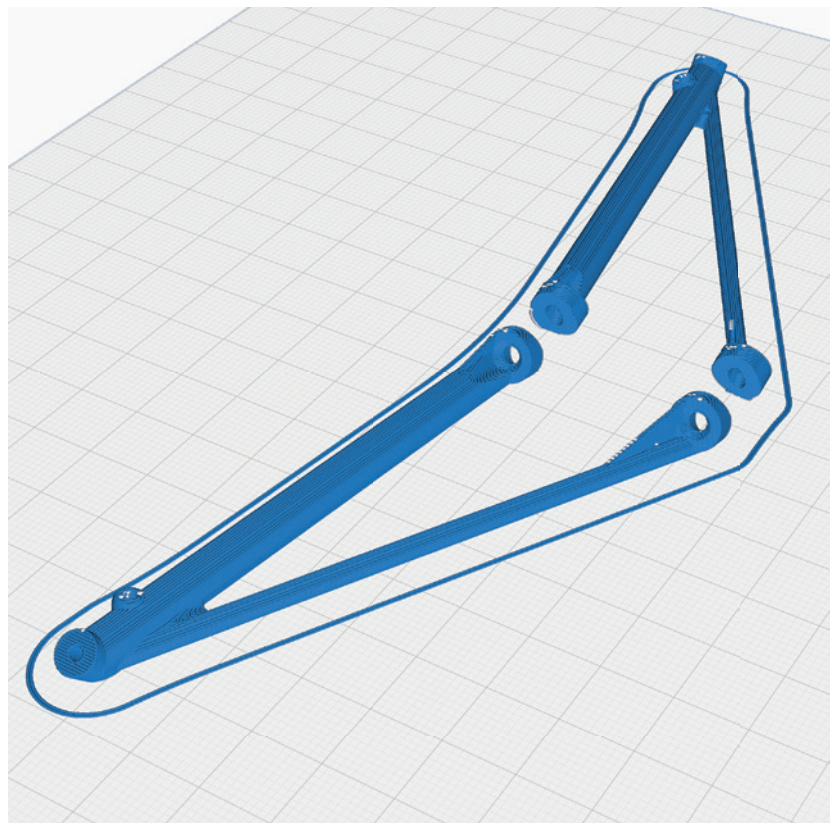


P1_Gear-gi.stl

MATERIAL PLA, Weight: ~ 7 g

ADDITIONAL SETTINGS

None required



PROFILE P1_Fullbody Tough PLA or PLA



The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

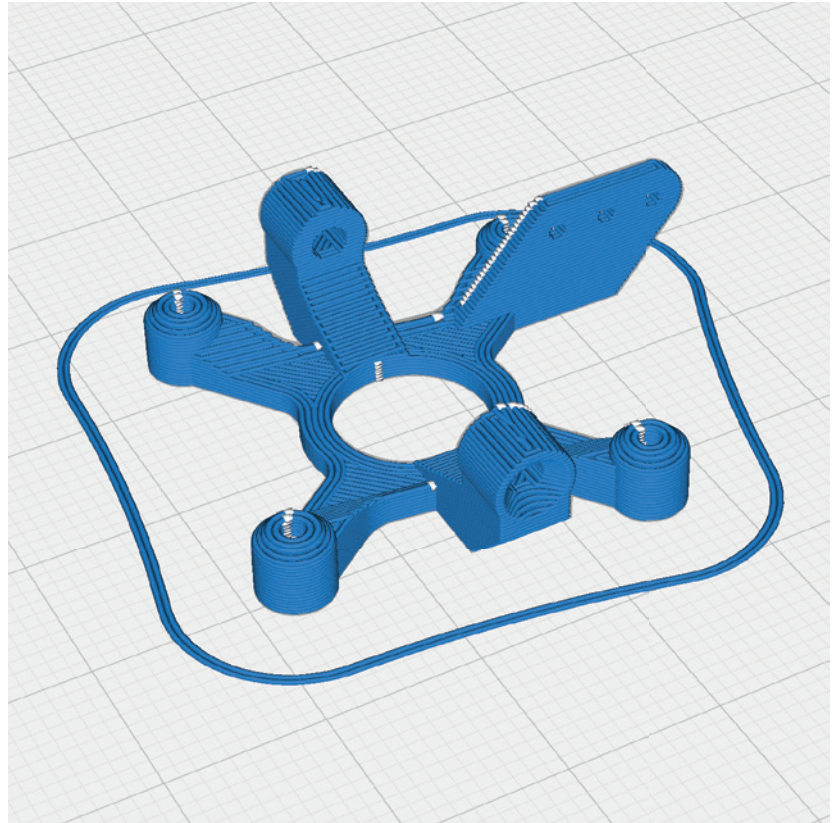
P1_Motor cross XXmm-gi.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required

There are different versions for different hole spacings, choose the right one for your motor.

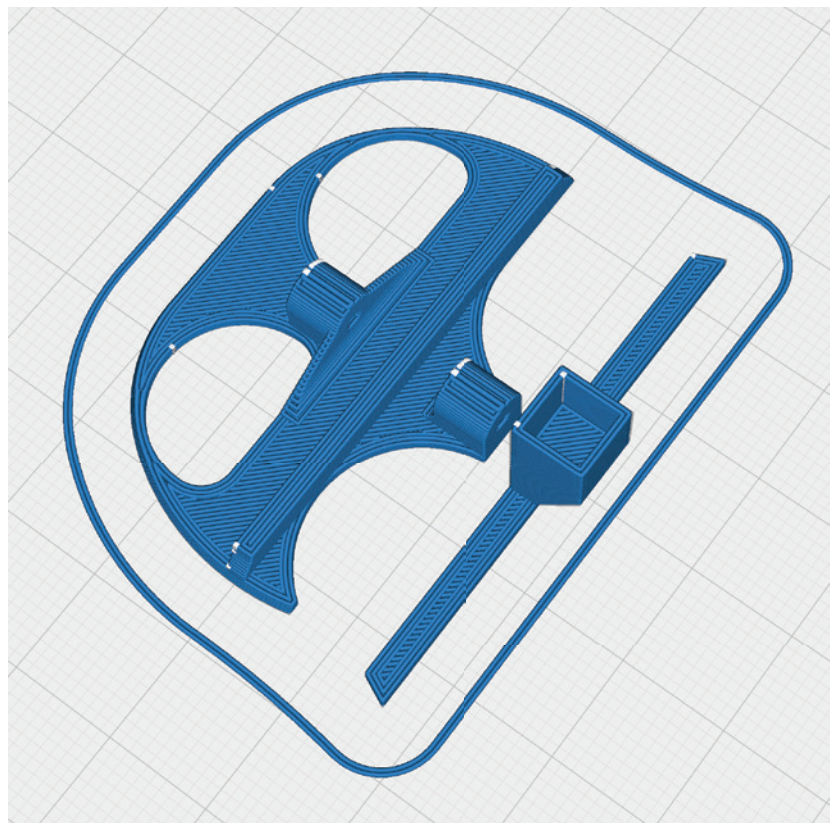


P1_Motor mount-gi.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required



PROFILE P1_Fullbody Tough PLA or PLA



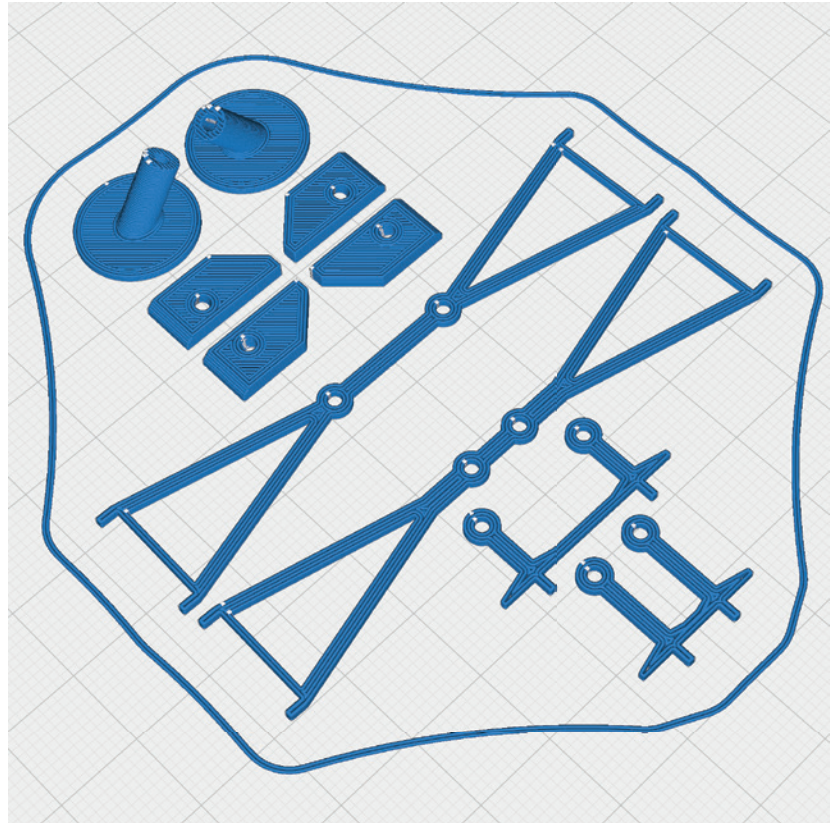
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P1_Parts 1-gi.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required

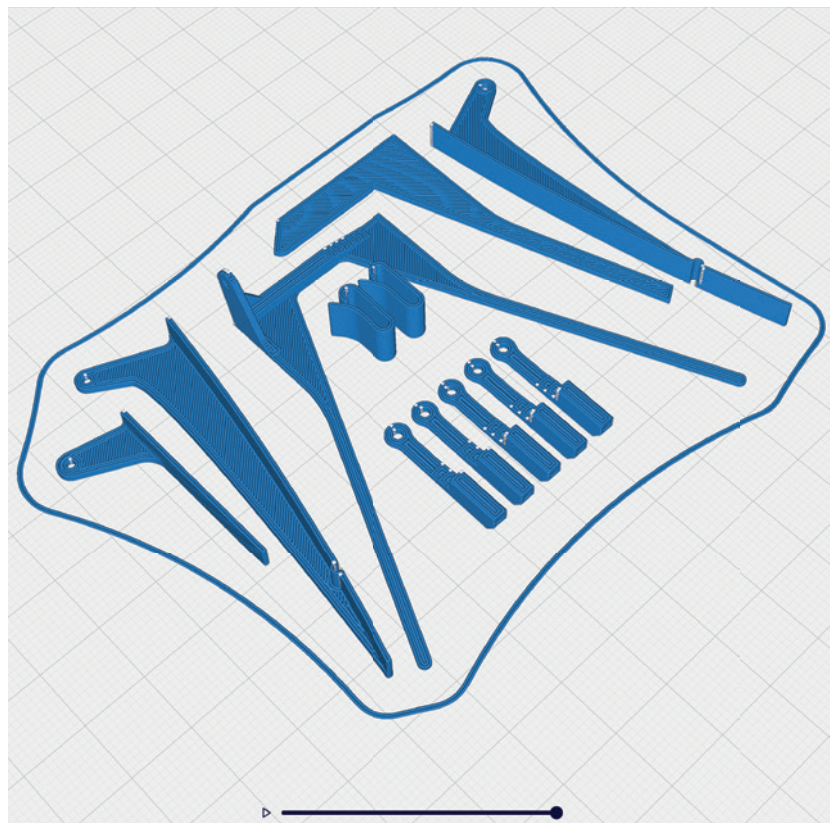


P1_Parts 2-gi.stl

MATERIAL PLA, Weight: ~ 5 g

ADDITIONAL SETTINGS

None required



PROFILE P1_Fullbody Tough PLA or PLA



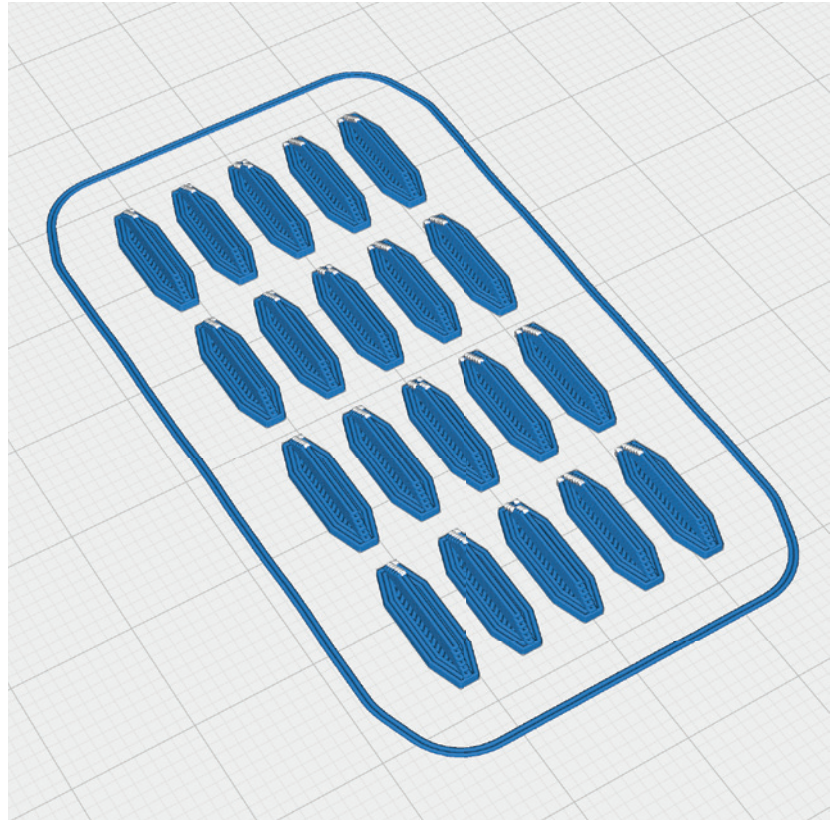
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P1_T-Interconnects-gi.stl

MATERIAL PLA, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required

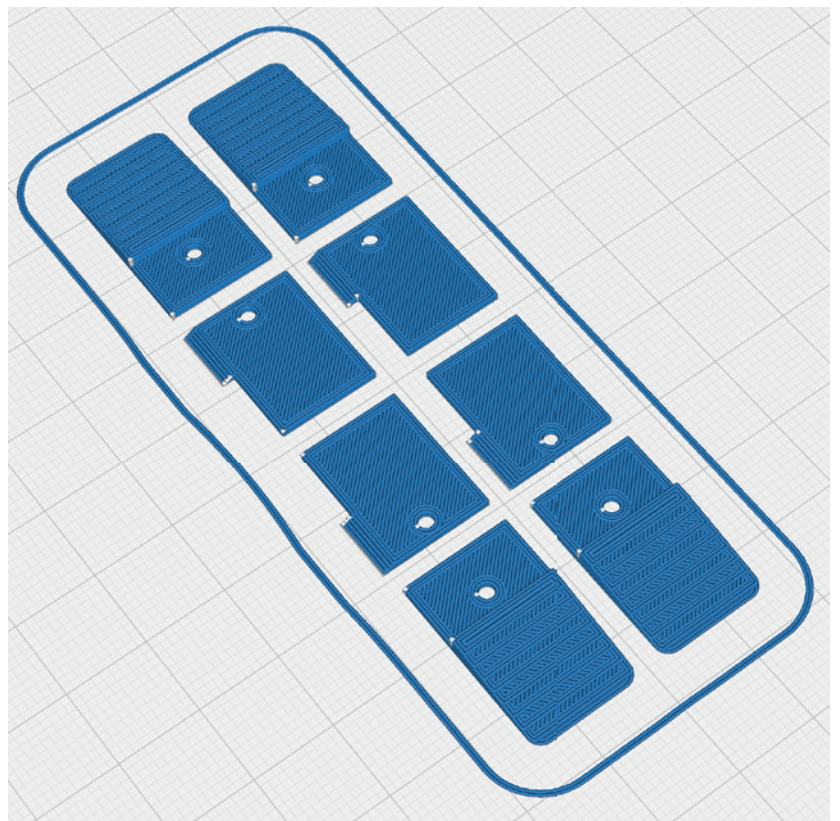


P1_Wing mount-gi.stl

MATERIAL PLA, Weight: ~ 3 g

ADDITIONAL SETTINGS

None required



PROFILE P2_Hollowbody PLA or Tough PLA



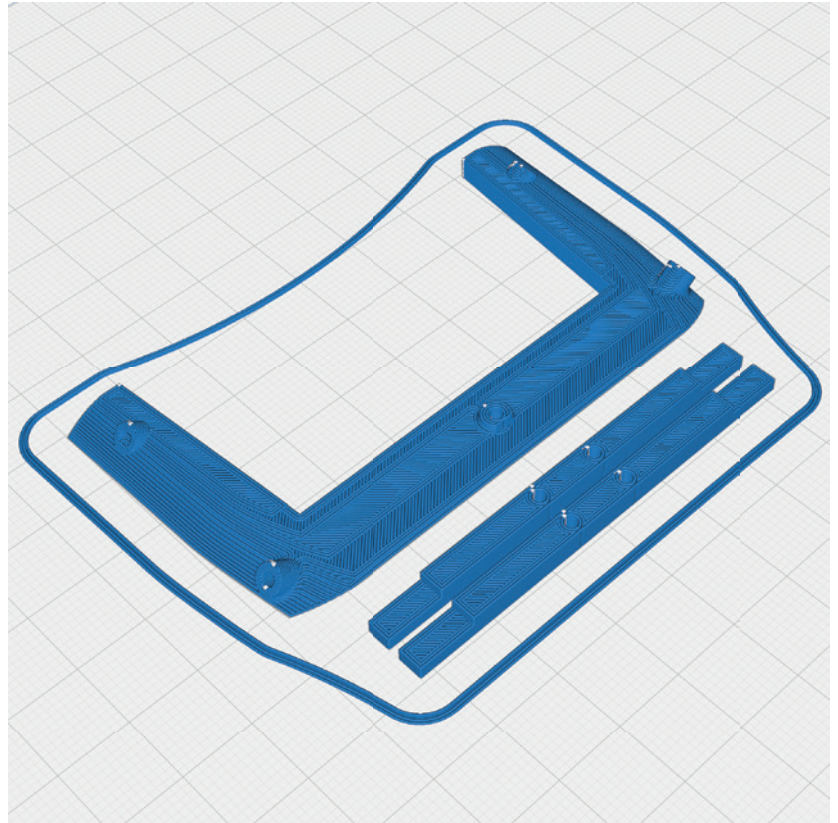
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P2_Gear plate-gi.stl

MATERIAL PLA, Weight: ~ 5 g

ADDITIONAL SETTINGS

None required



P2_Parts 3-gi.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required



PROFILE P2_Hollowbody PLA or Tough PLA



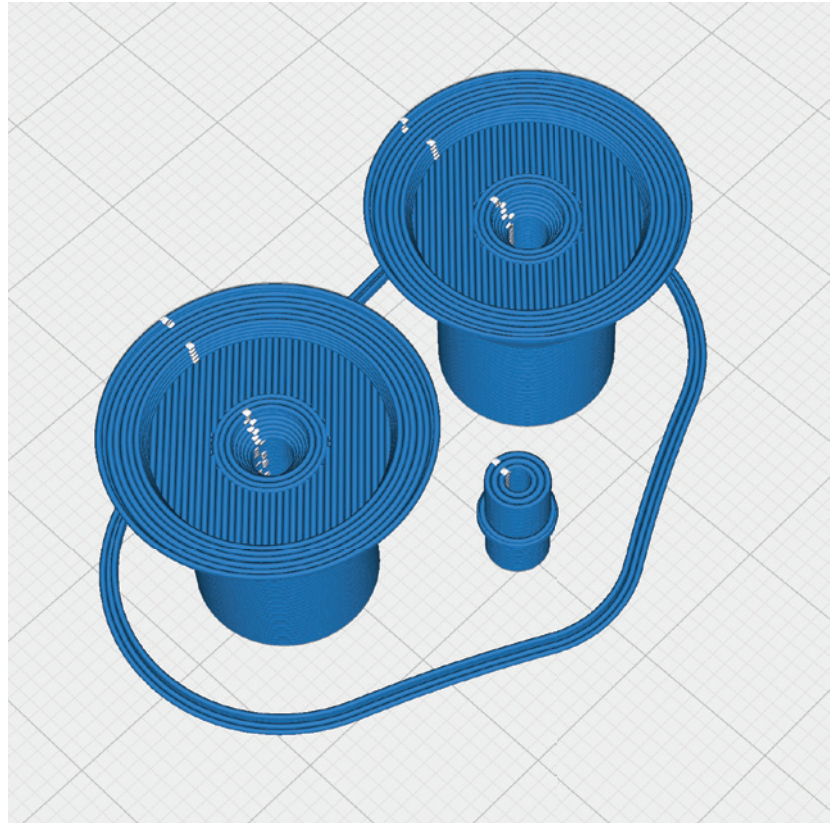
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P2_Rims-gi.stl

MATERIAL PLA, Weight: ~ 3 g

ADDITIONAL SETTINGS

None required

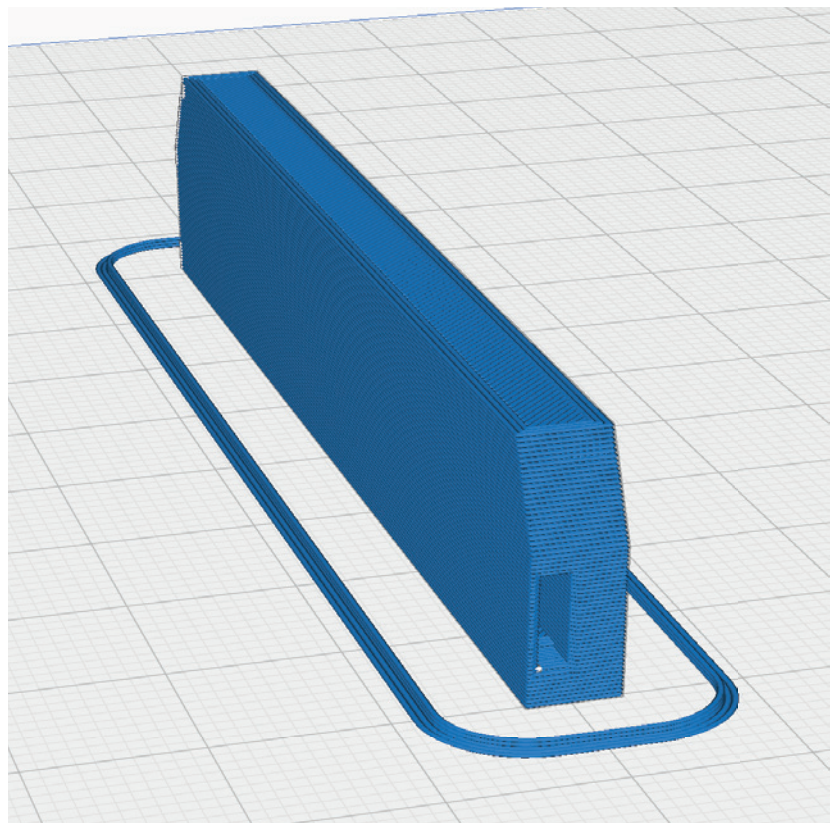


P2_Wing centerpart-gi.stl

MATERIAL PLA, Weight: ~ 4 g

ADDITIONAL SETTINGS

None required



PROFILE P4_Flex LW TPU (VarioShore)



The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P4_Tire back-gi.stl and
P4_Tire main-gi.stl (print twice)

MATERIAL LW TPU, Weight: ~ 1/6 g

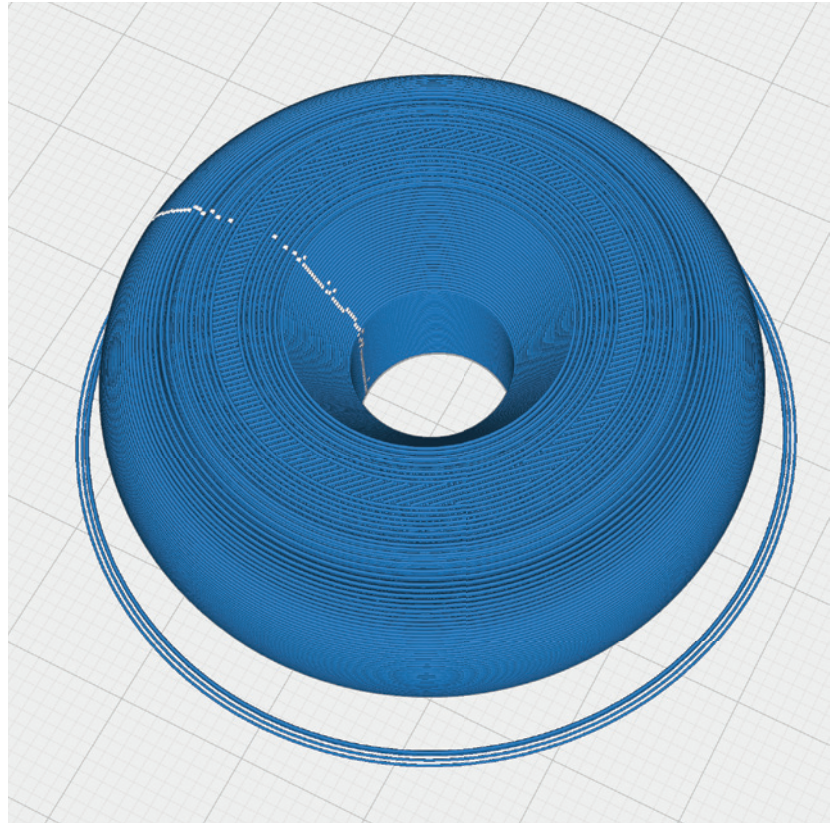
ADDITIONAL SETTINGS

VarioShore with Flow 70 %:

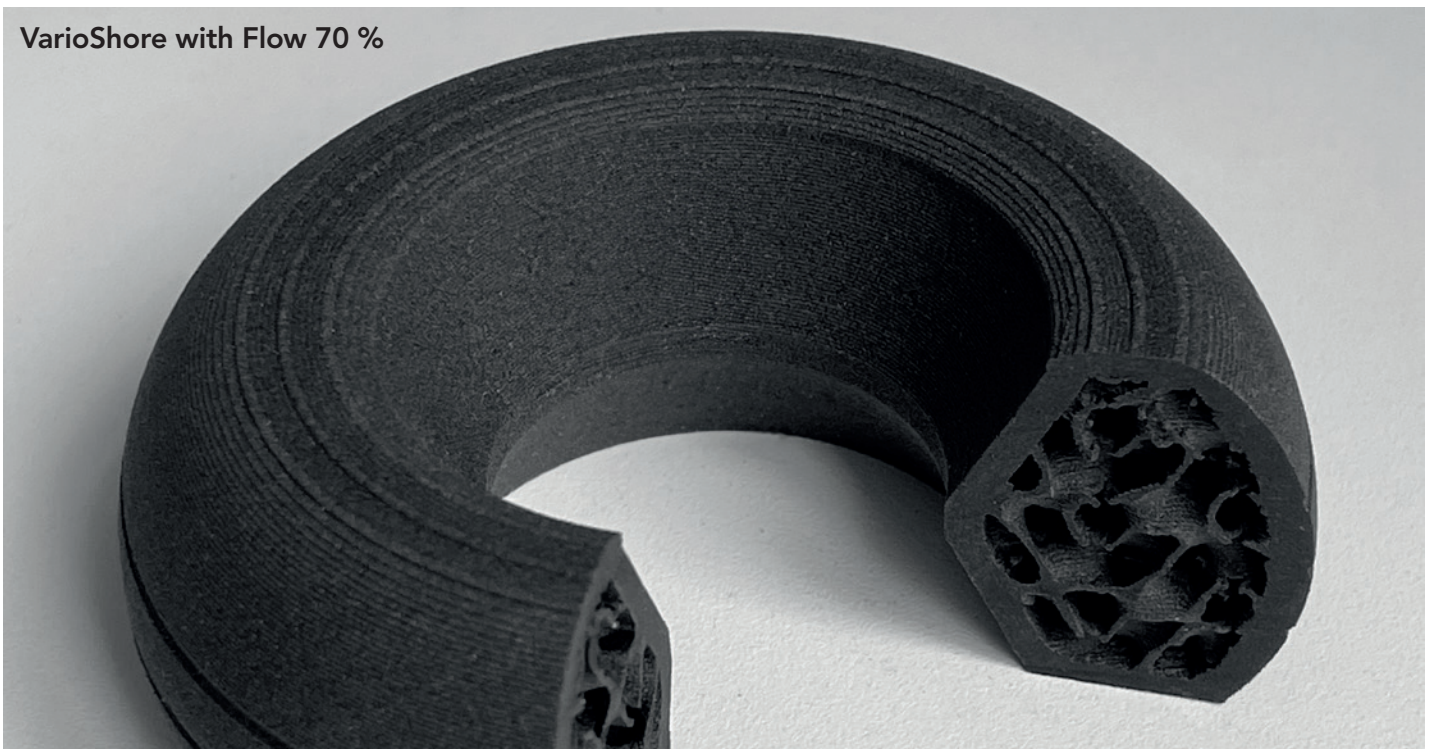
- Wall Line Count/Perimeters: 2
- Top Layers: 3
- Bottom Layers: 3
- Infill Density: 15 %
- Infill Pattern: Gyroid

TPU A95:

- Wall Line Count: 2
- Top Layers: 3
- Infill Pattern: Gyroid



VarioShore with Flow 70 %



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

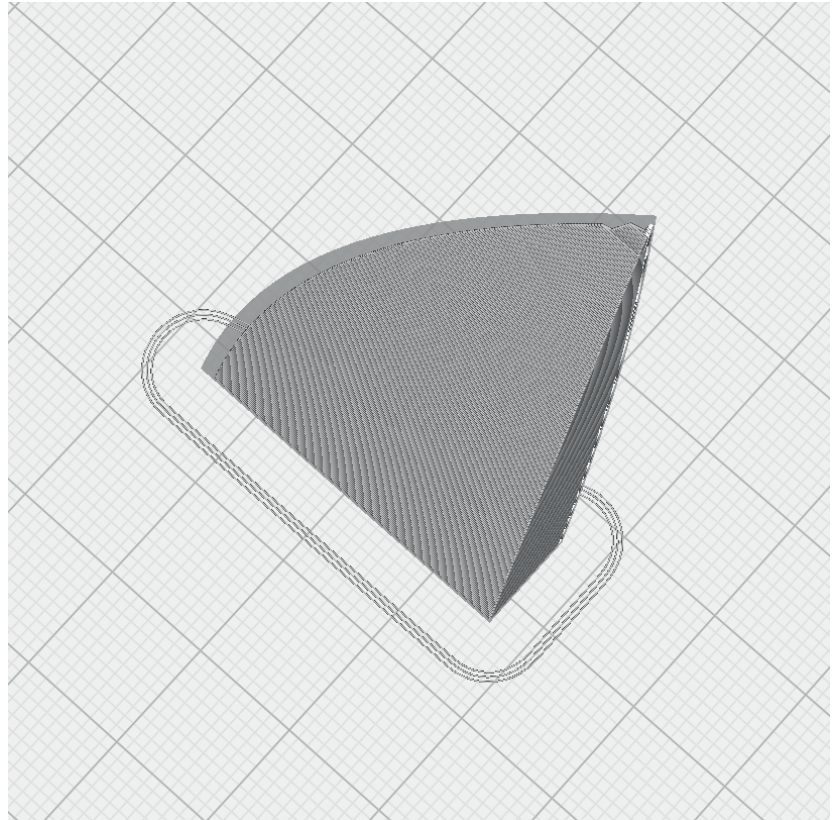
Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

P5_Aileron part L-gi.stl and
P5_Aileron part R-gi.stl

MATERIAL LW PLA, Weight: ~ 1 g

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



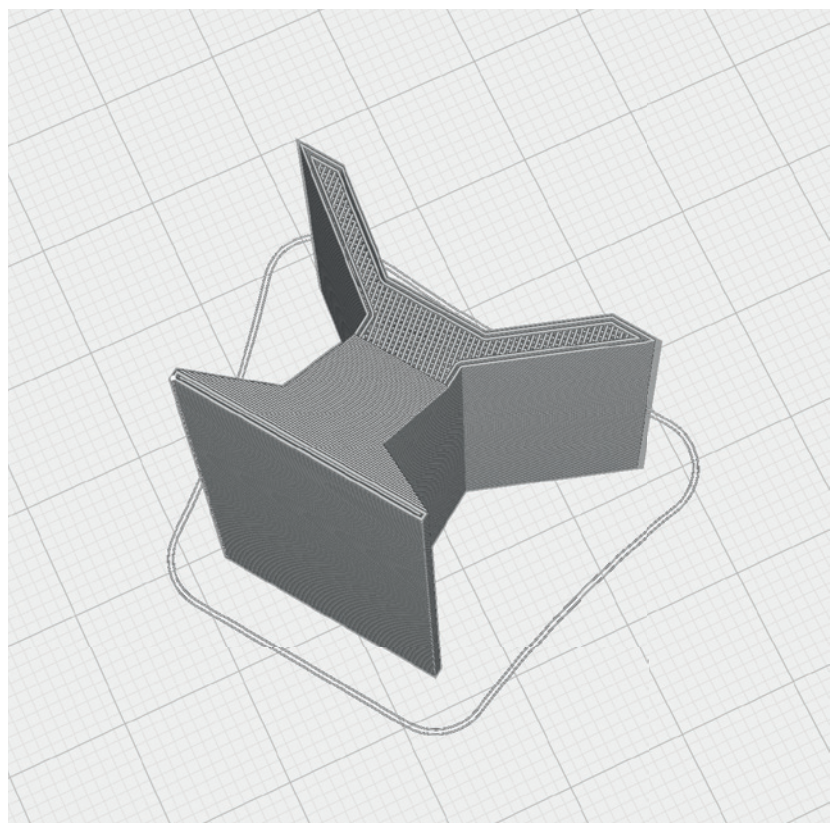
P5_Battery mount A-gi.stl or
P5_Battery mount B-gi.stl

MATERIAL LW PLA, Weight: ~ 2/4 g

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %

There are two different options, you can see the difference in the assembly instructions.



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

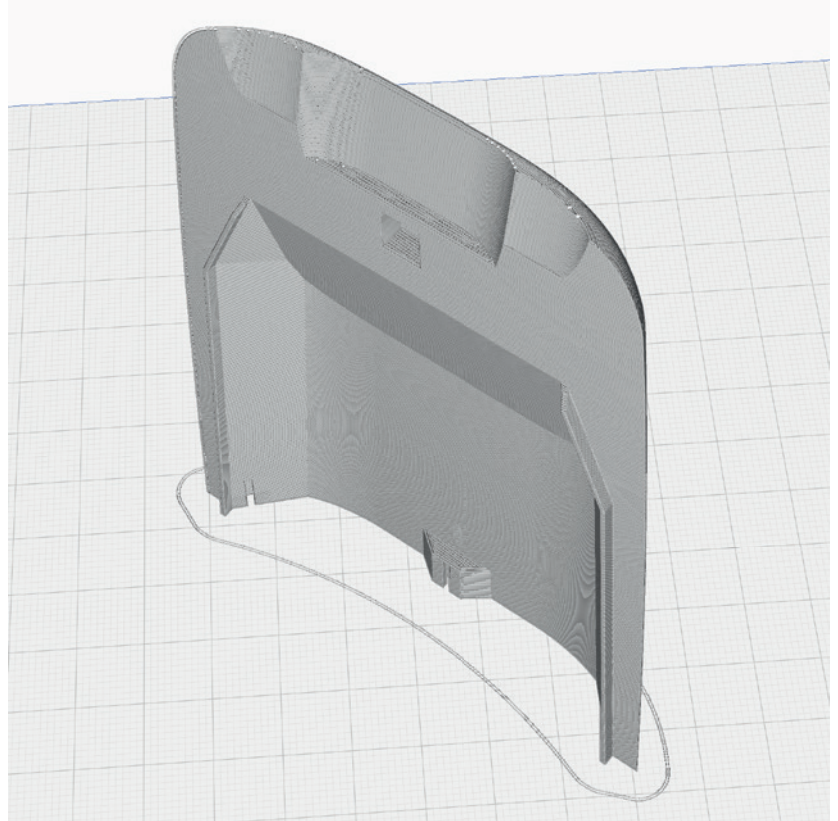
P5_Cover 1-gi.stl

MATERIAL LW PLA, Weight: ~ 7 g

TIME ~ 1 hour

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



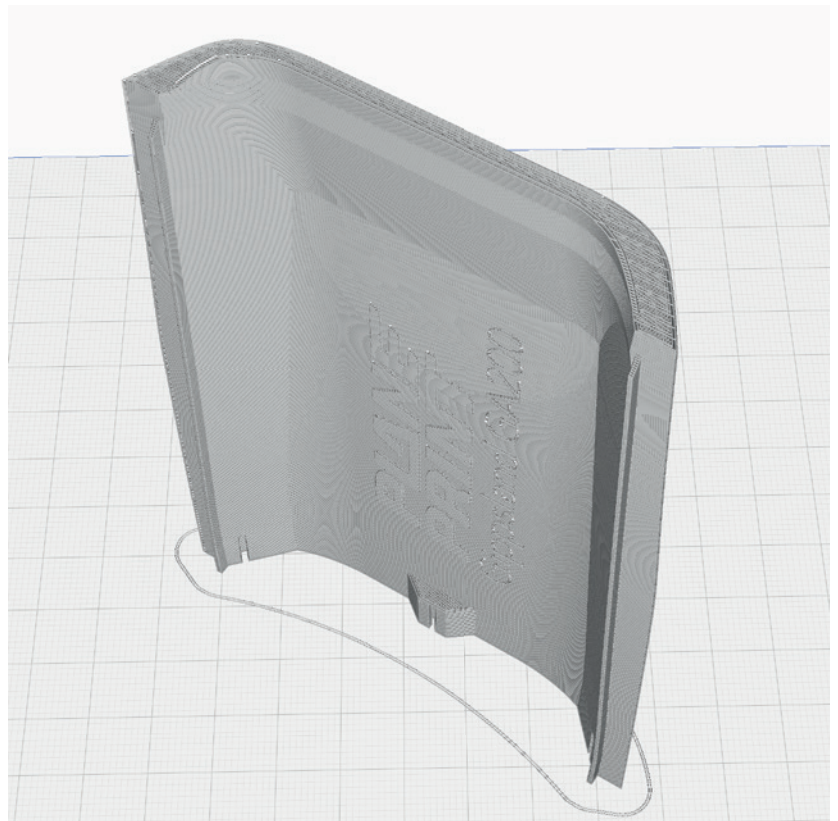
P5_Cover 2-gi.stl

MATERIAL LW PLA, Weight: ~ 8 g

TIME ~ 1 hour 20 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

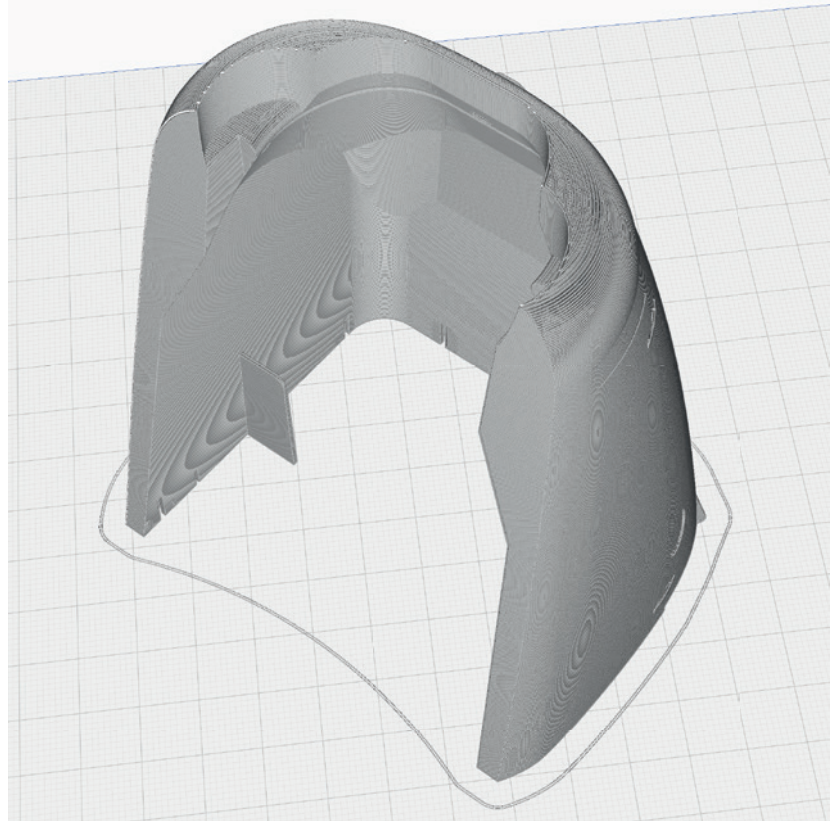
P5_FUS1-gi.stl

MATERIAL LW PLA, Weight: ~ 13 g

TIME ~ 2 hours 30 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



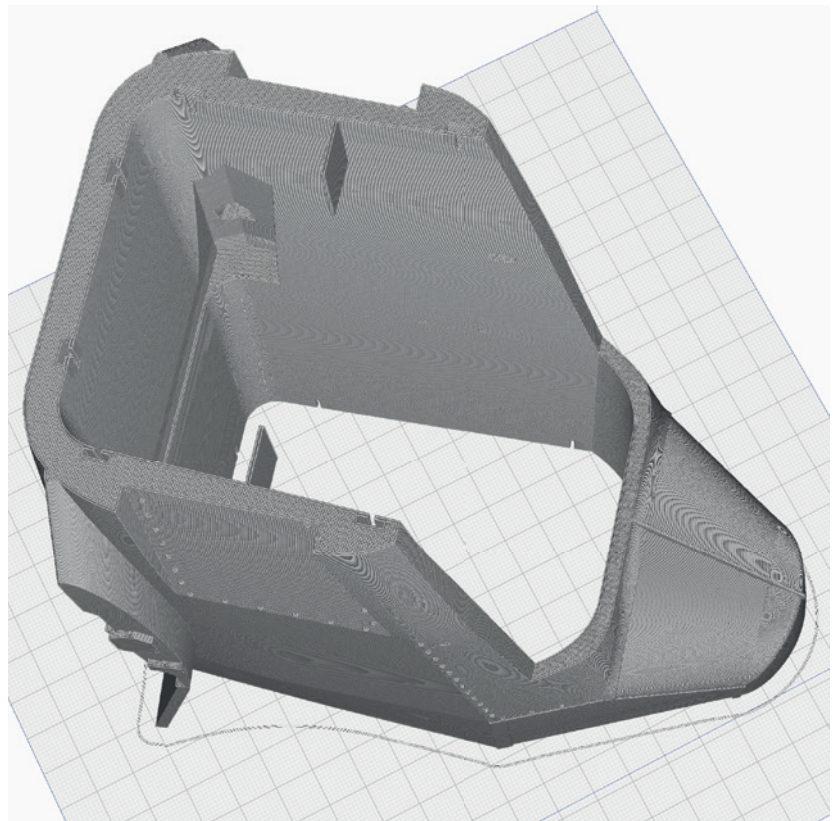
P5_FUS2-gi.stl

MATERIAL LW PLA, Weight: ~ 52 g

TIME ~ 9 hours

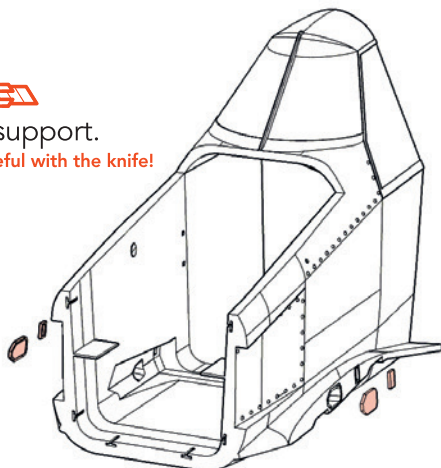
ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



Remove support.

Please be careful with the knife!



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

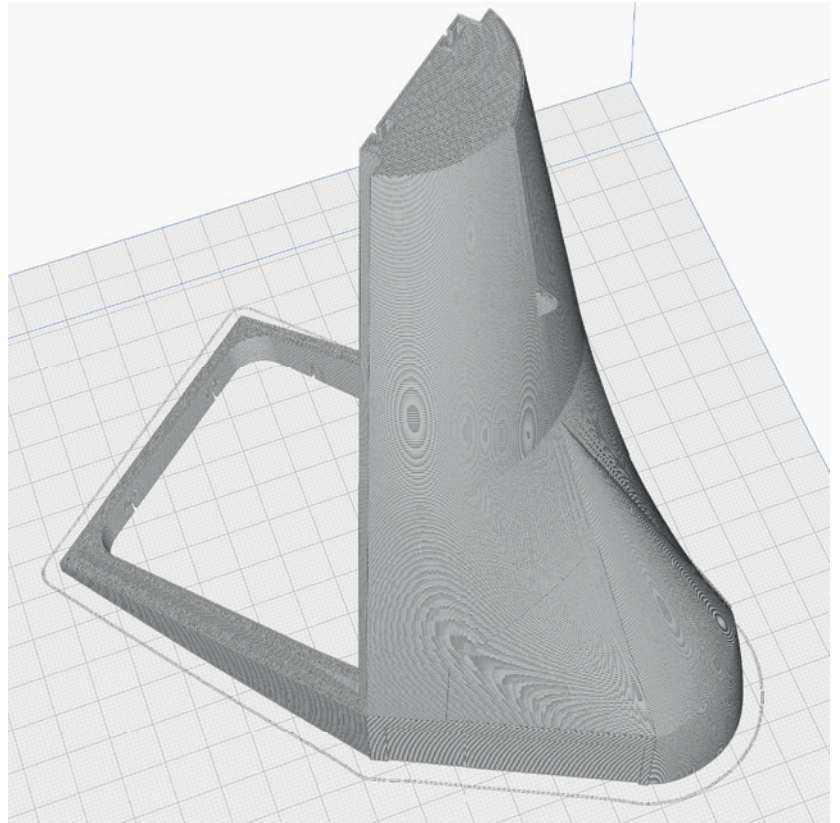
P5_FUS3-gi.stl

MATERIAL LW PLA, Weight: ~ 21 g

TIME ~ 3 hours 30 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %

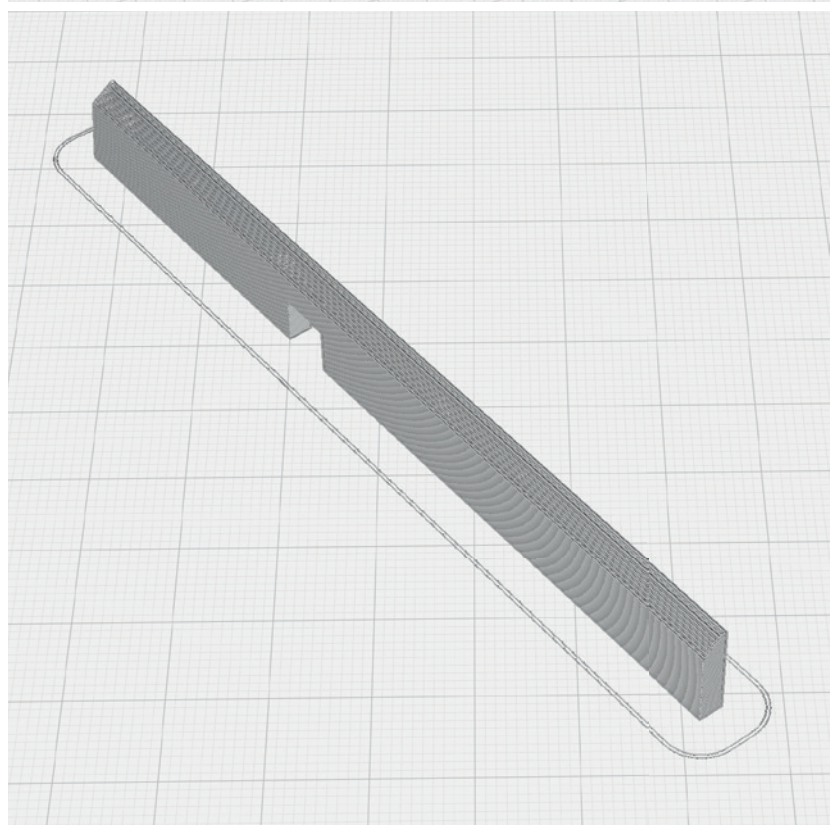


P5_FUS4 part-gi.stl

MATERIAL LW PLA, Weight: ~ 1 g

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

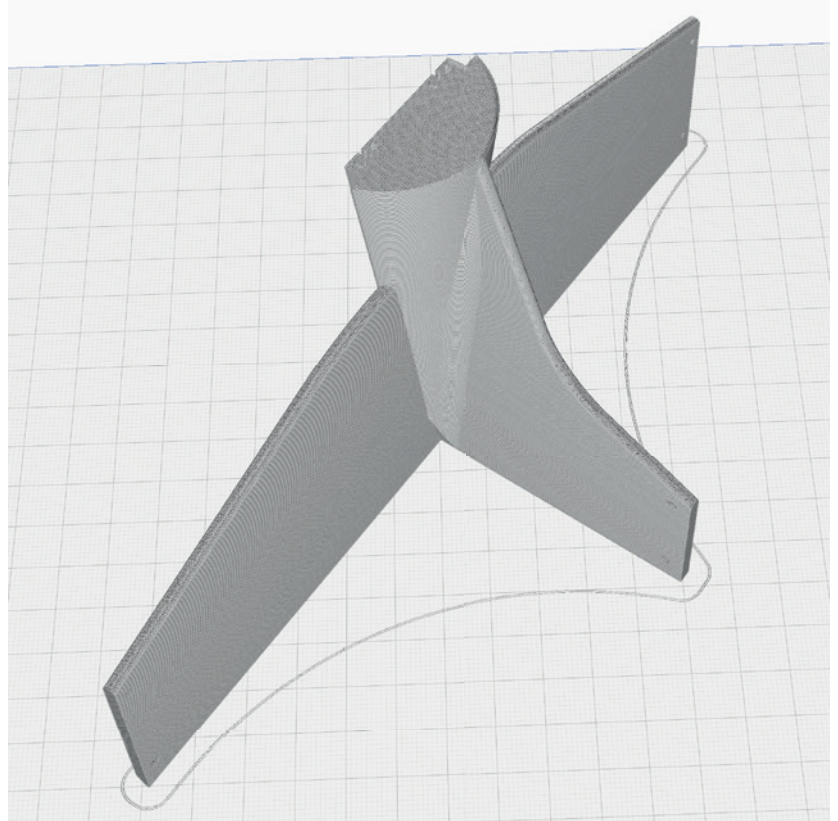
P5_FUS4-gi.stl

MATERIAL LW PLA, Weight: ~ 12 g

TIME ~ 2 hours

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %

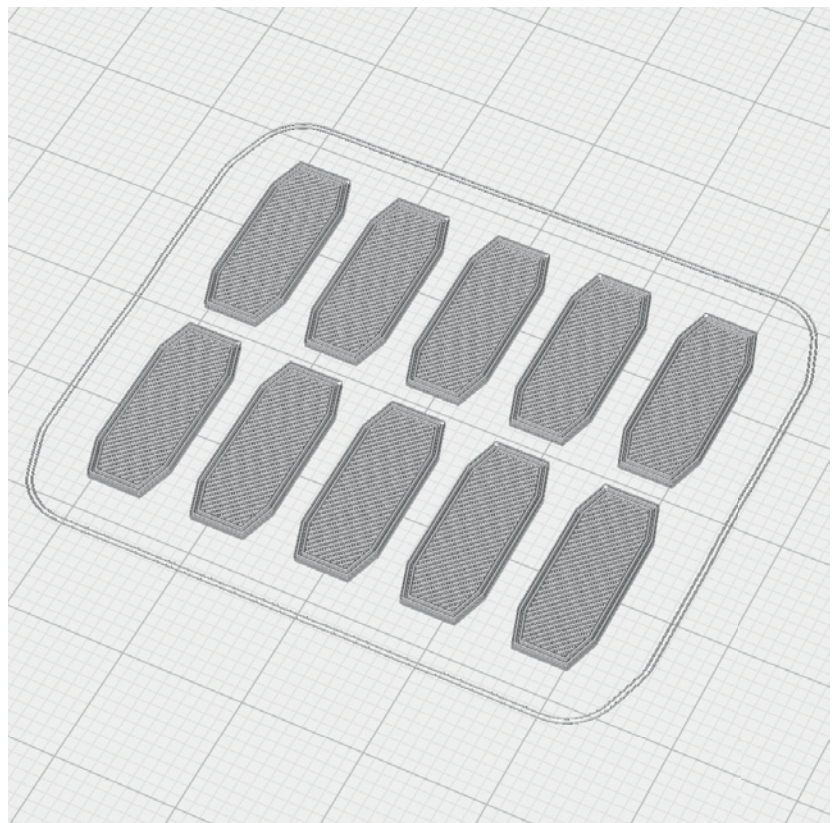


P5_Interconnects-gi.stl

MATERIAL LW PLA, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

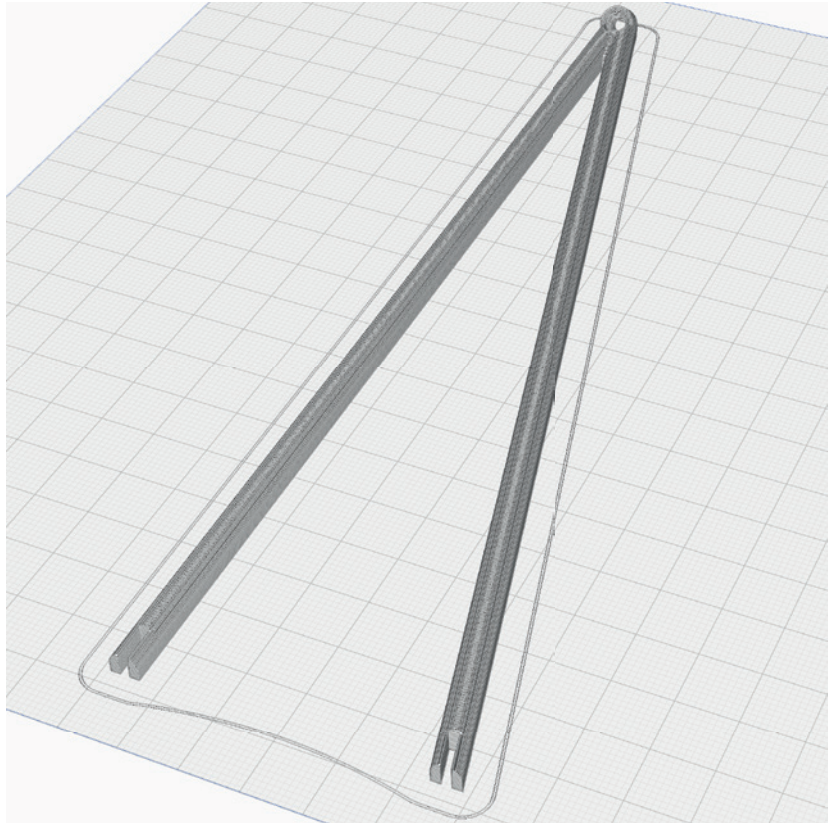
P5_Strut L 1-gi.stl and P5_Strut R 1-gi.stl

MATERIAL LW PLA, Weight: ~ 2 g

TIME ~ 30 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



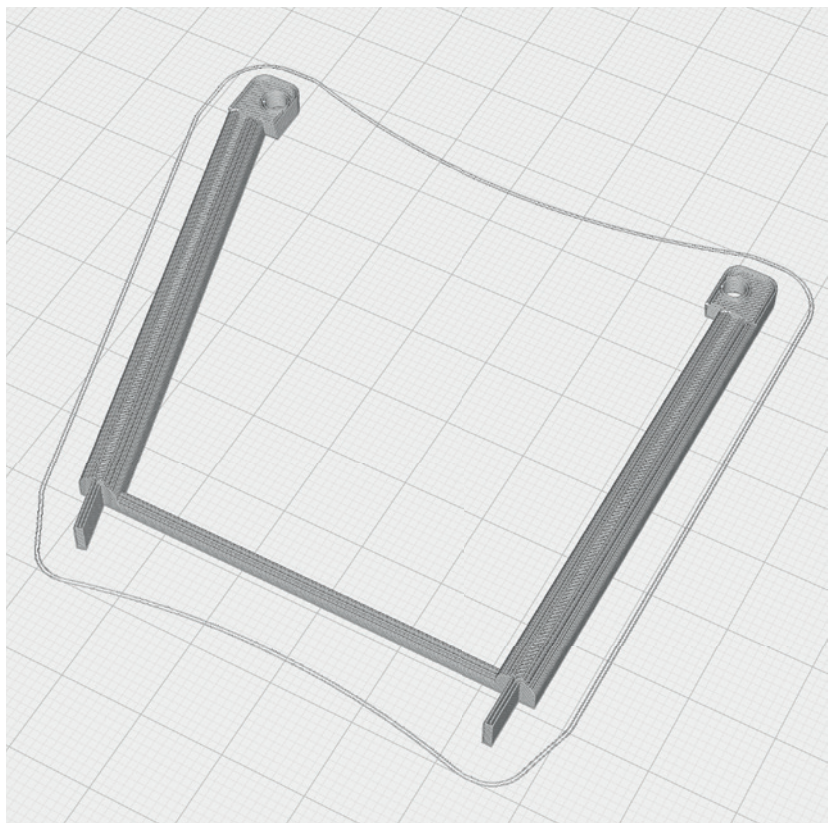
P5_Strut L 2-gi.stl and P5_Strut R 2-gi.stl

MATERIAL LW PLA, Weight: ~ 1 g

TIME ~ 10 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

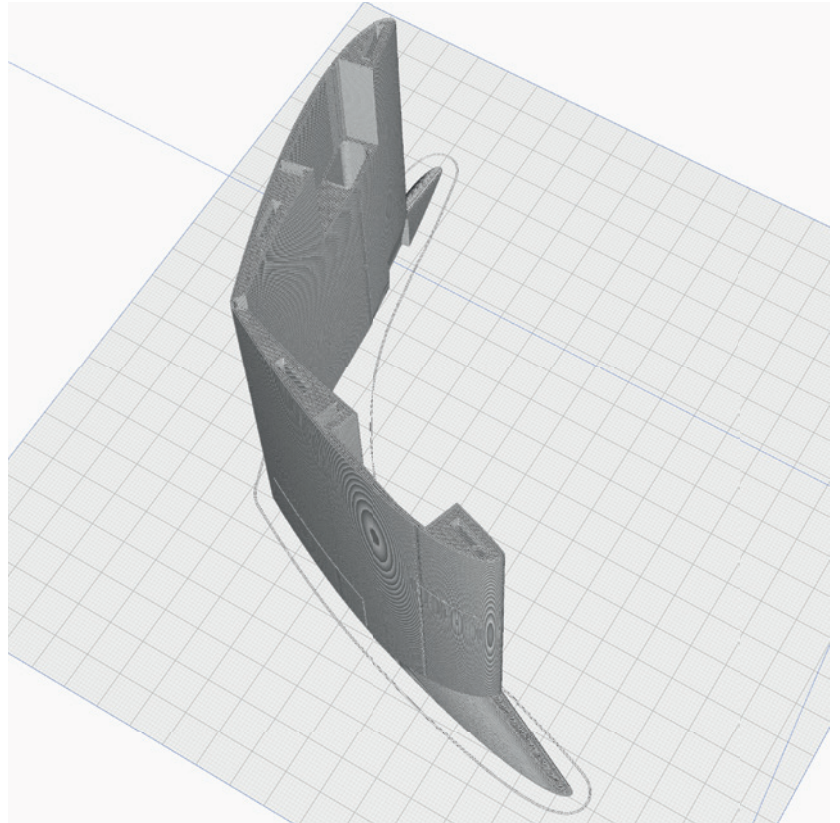
P5_Wings 1-gi.stl

MATERIAL LW PLA, Weight: ~ 17 g

TIME ~ 3 hours 20 minutes

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



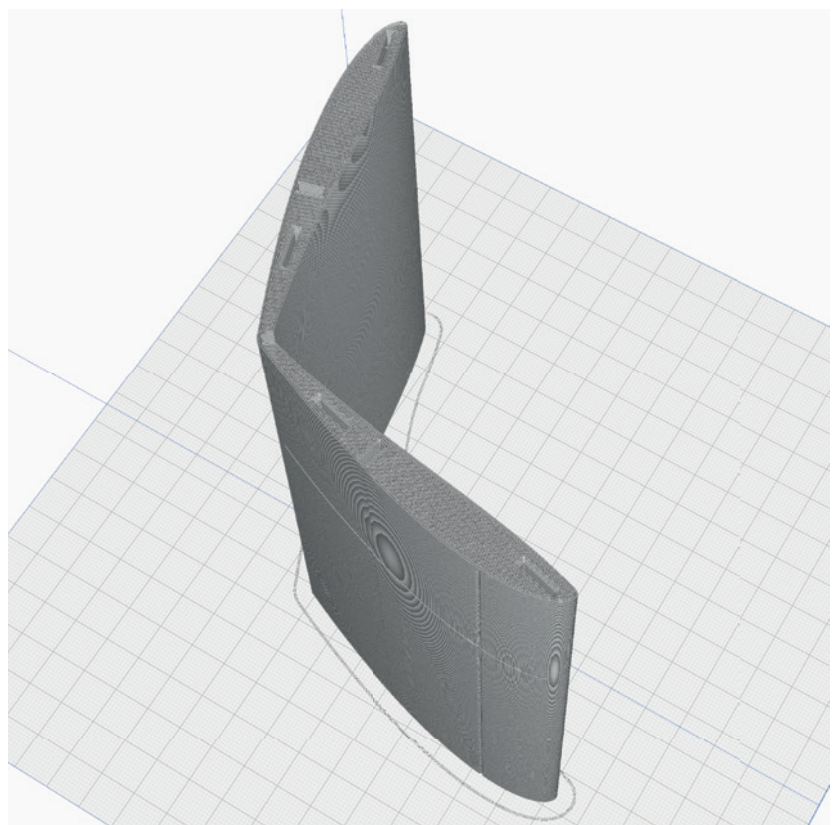
P5_Wings 2-gi.stl

MATERIAL LW PLA, Weight: ~ 22 g

TIME ~ 4 hours

ADDITIONAL SETTINGS

- Infill Density/Fill Density: 3 %



PROFILE P5_Gyroid Light-Weight LW-PLA!



The information about the basic settings you can find on our website at PRINT.

Please note the additional settings for the individual parts!

It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! **For optimum quality, there should only ever be one part on the build plate!**

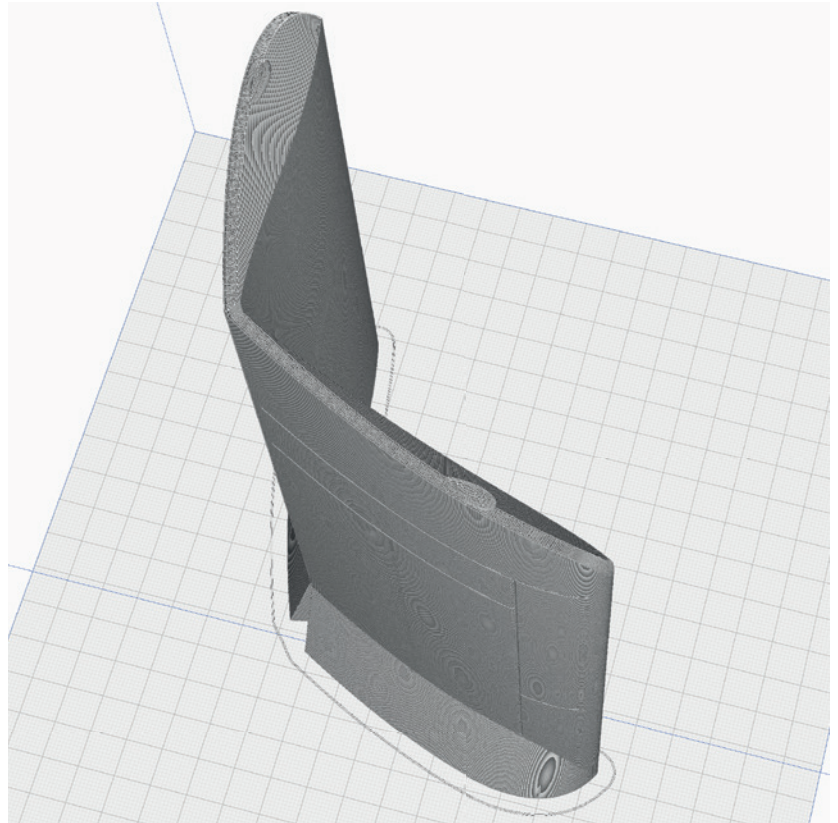
P5_Wings 3-gi.stl

MATERIAL LW PLA, Weight: ~ 29 g

TIME ~ 5 hours

ADDITIONAL SETTINGS

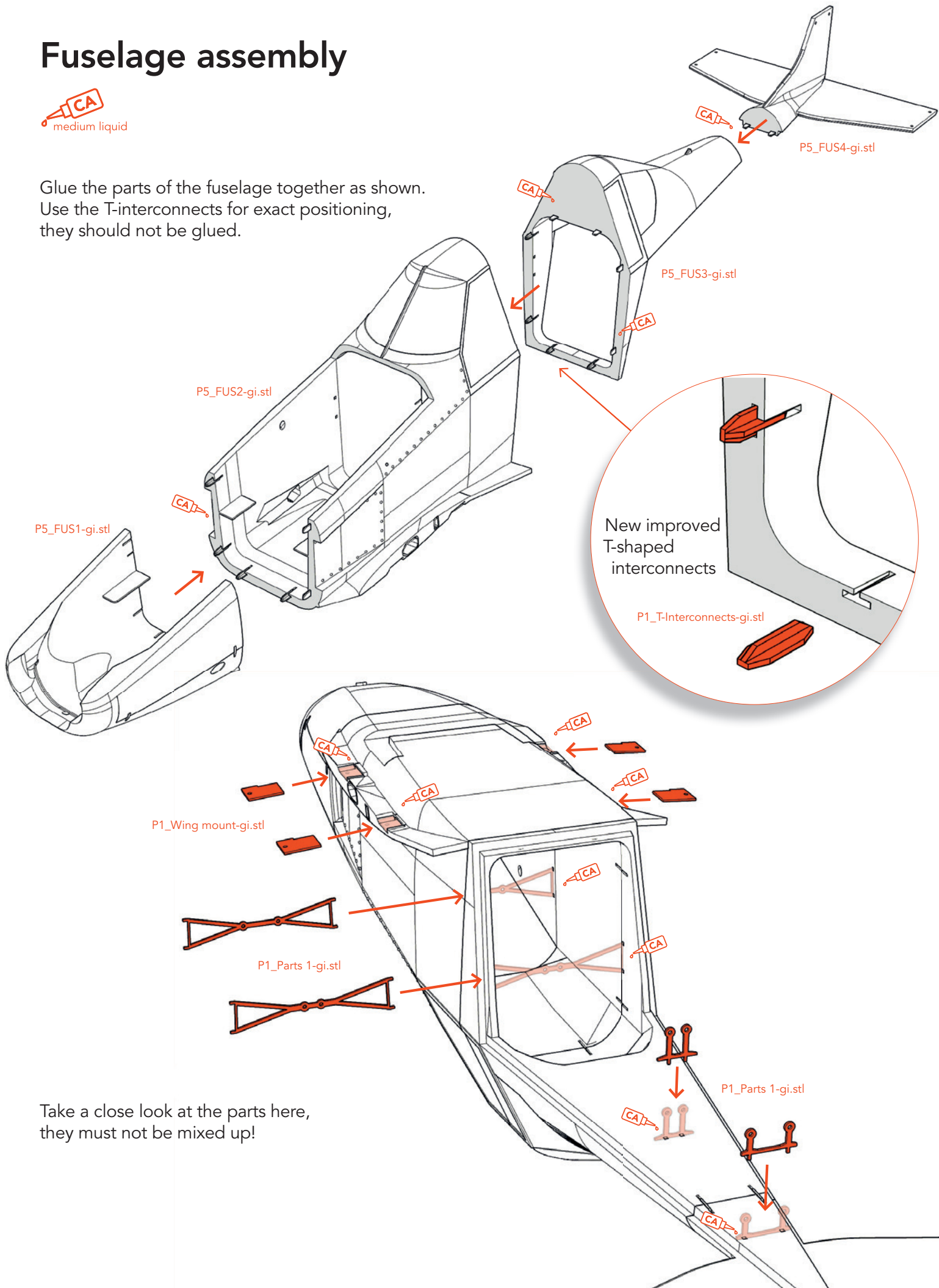
- Infill Density/Fill Density: 3 %



Fuselage assembly

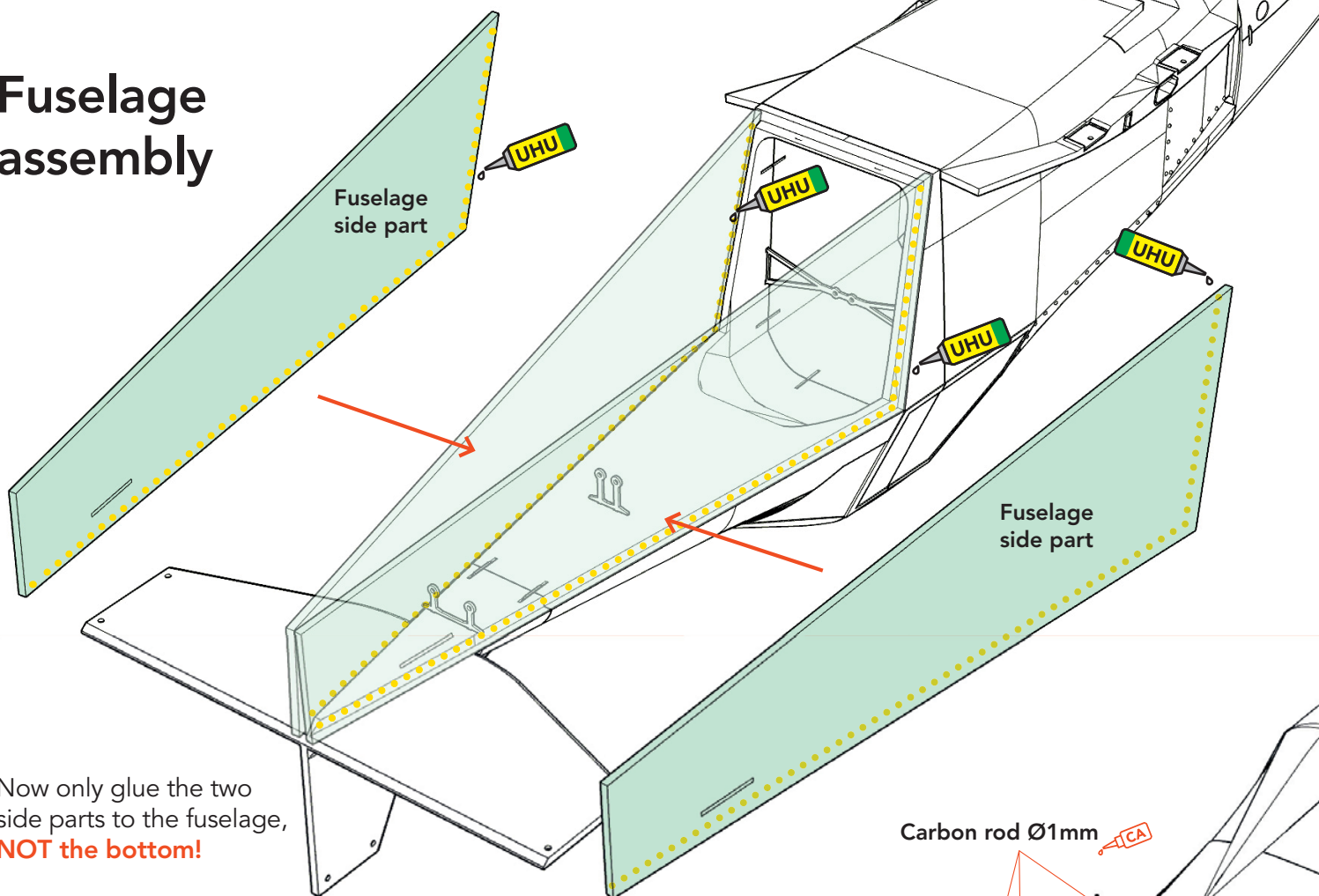


Glue the parts of the fuselage together as shown. Use the T-interconnects for exact positioning, they should not be glued.



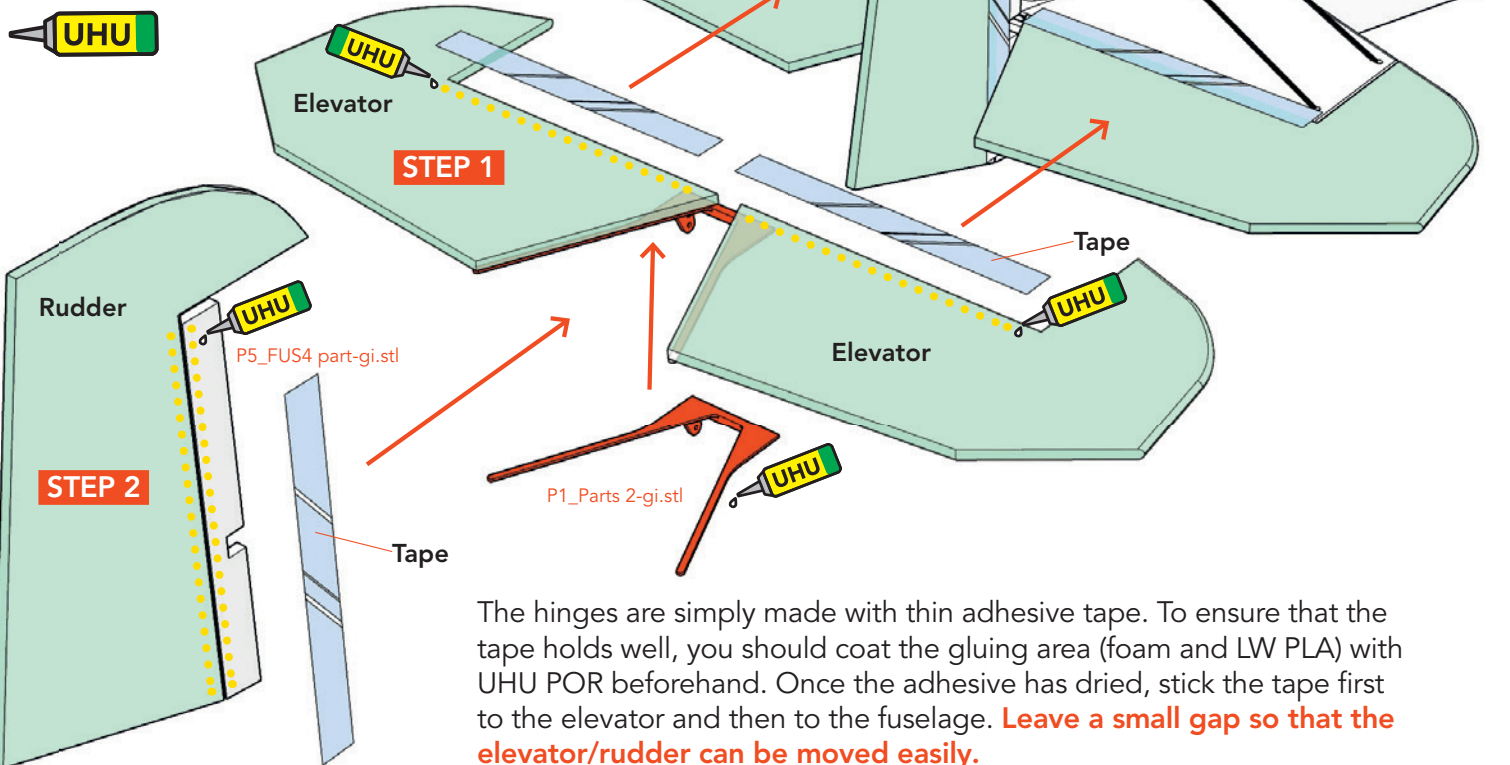
Take a close look at the parts here, they must not be mixed up!

Fuselage assembly



Now only glue the two side parts to the fuselage, **NOT the bottom!**

NOTE For Depron use **UHU POR**, other adhesives will damage the material. It is also suitable for other types of foam. UHU POR is a contact adhesive. Coat both adhesive surfaces (foam and LW PLA) with adhesive and wait until it is dry. Then join the parts together.



The hinges are simply made with thin adhesive tape. To ensure that the tape holds well, you should coat the gluing area (foam and LW PLA) with UHU POR beforehand. Once the adhesive has dried, stick the tape first to the elevator and then to the fuselage. **Leave a small gap so that the elevator/rudder can be moved easily.**

Fuselage assembly

P2_Wing centerpart-gi.stl

Position the center part in the fuselage first and insert the carbon fiber strips. First check that they go all the way into the center part. Then glue the part firmly in the fuselage.

NOTE The carbon fiber strips are NOT glued!

Carbon fiber strip
1*5*500mm

Carbon fiber strip 1*5*500mm

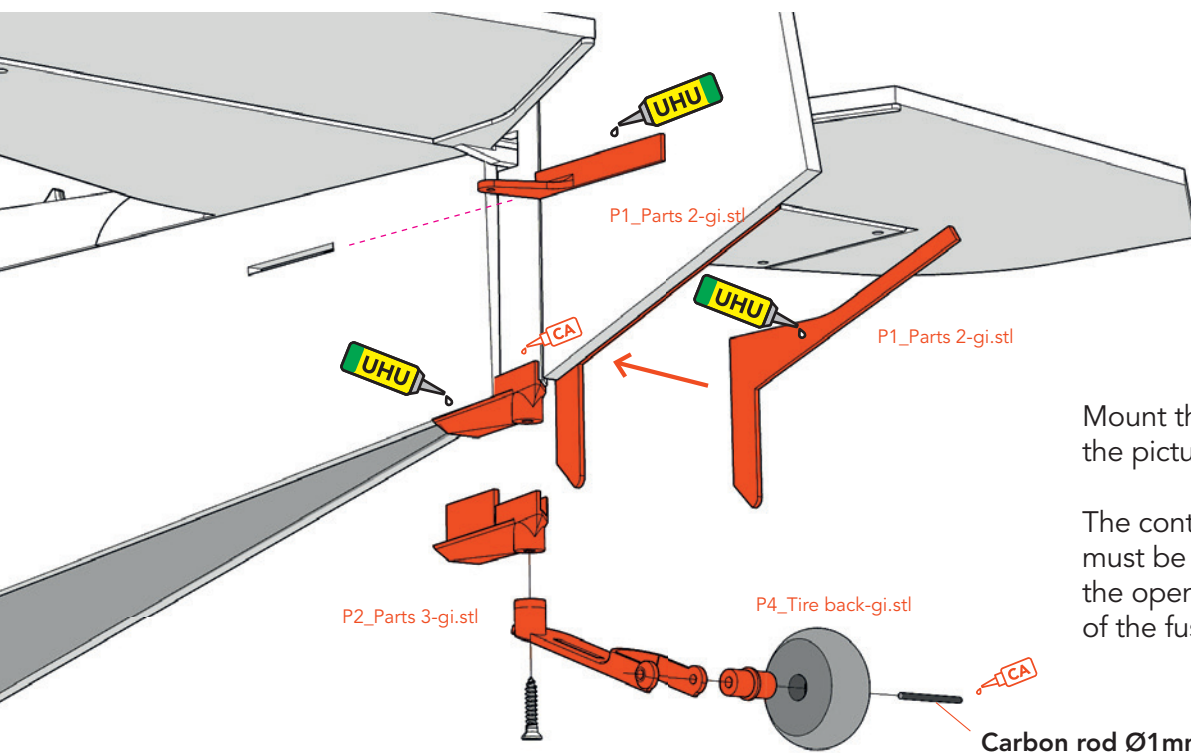
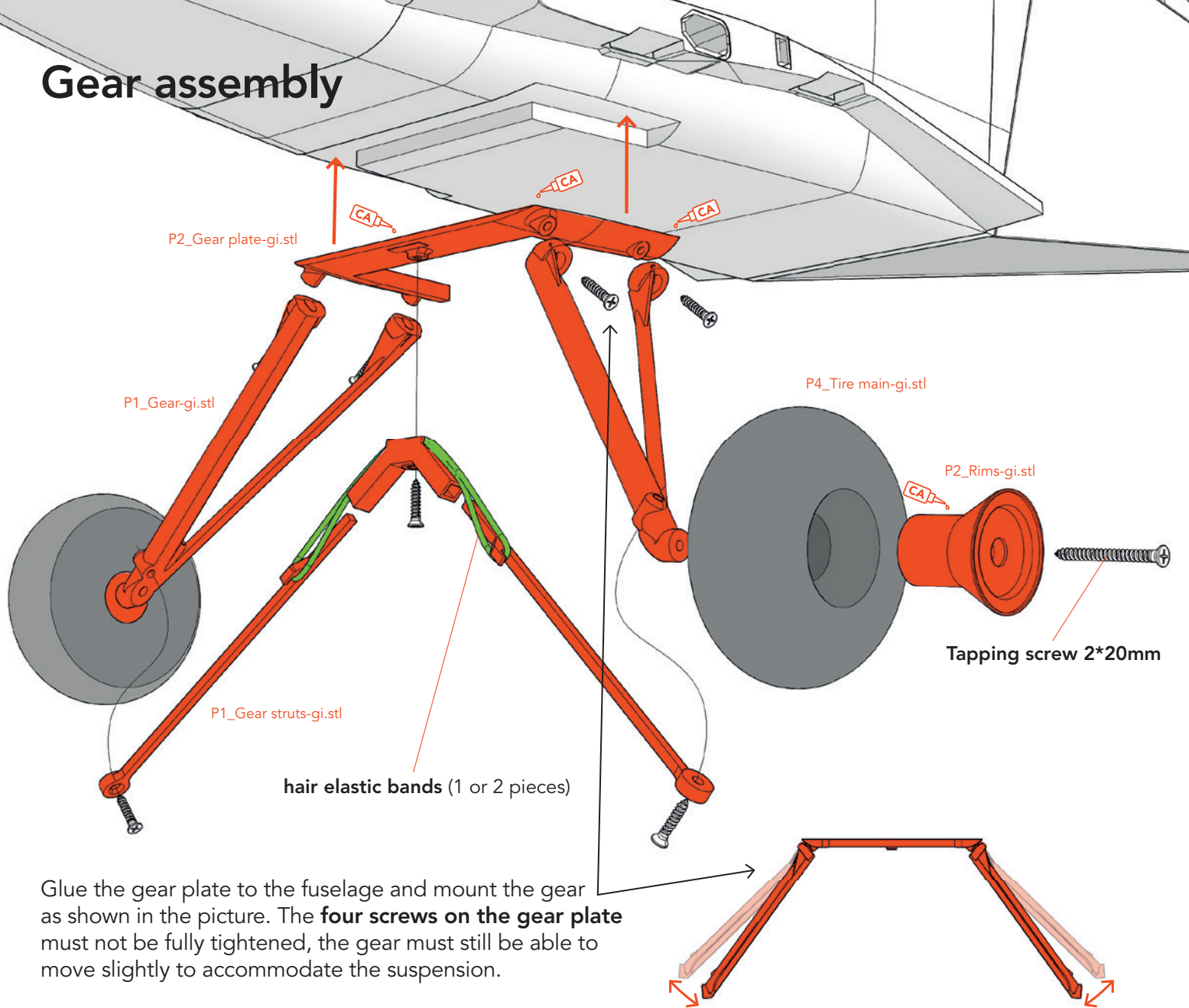
P2_Parts 3-gi.stl

P1_Motor mount-gi.stl

In fuselage 1 there are recesses to position the parts of the **Motor mount** correctly. Glue them firmly in place.

P1_Parts 1-gi.stl

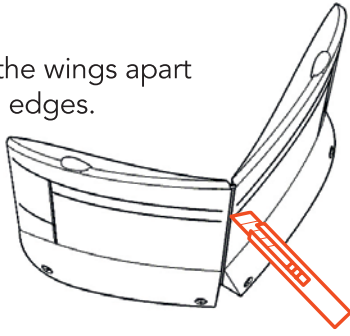
Gear assembly



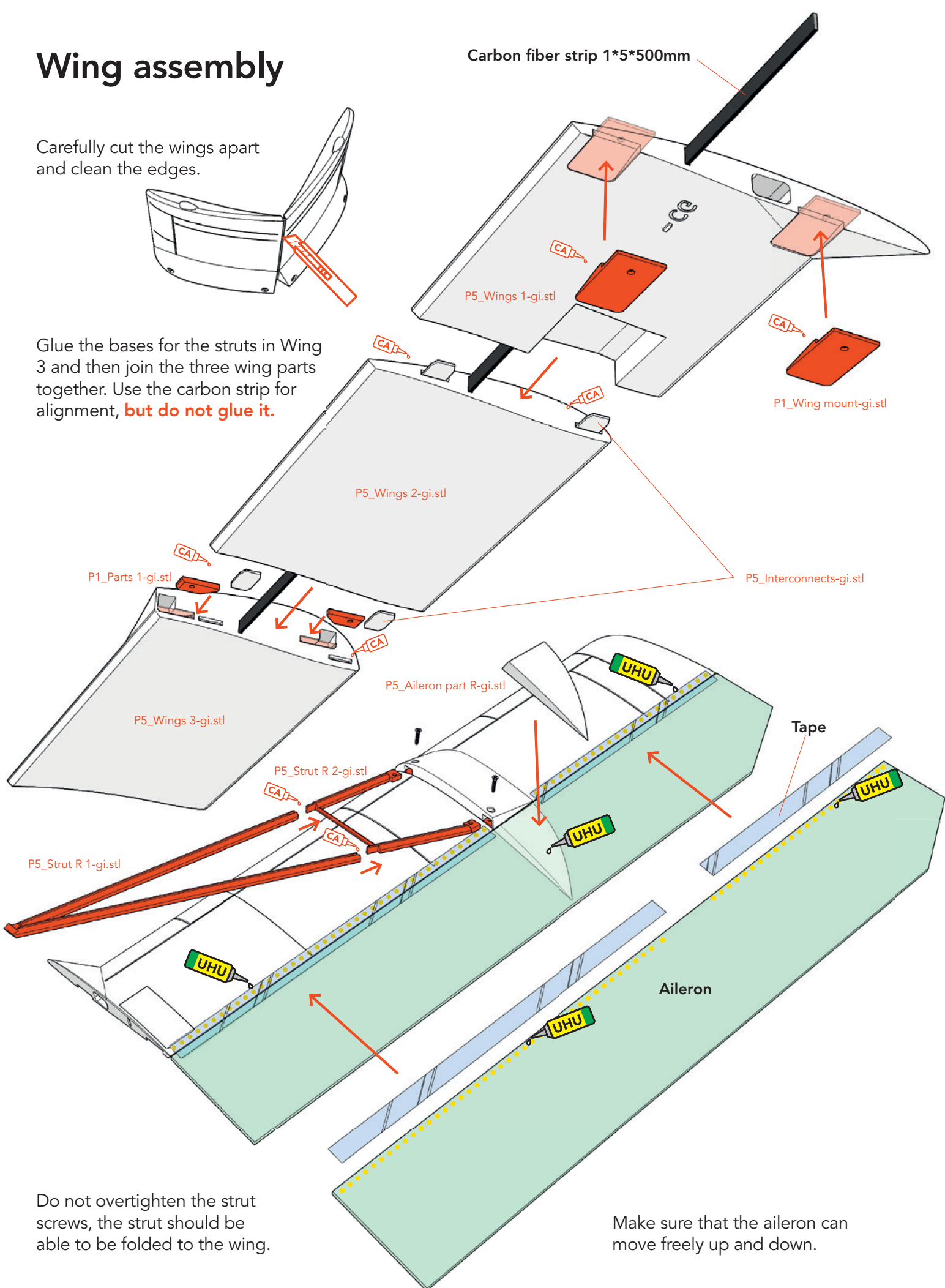
Wing assembly

Carbon fiber strip 1*5*500mm

Carefully cut the wings apart and clean the edges.



Glue the bases for the struts in Wing 3 and then join the three wing parts together. Use the carbon strip for alignment, **but do not glue it**.



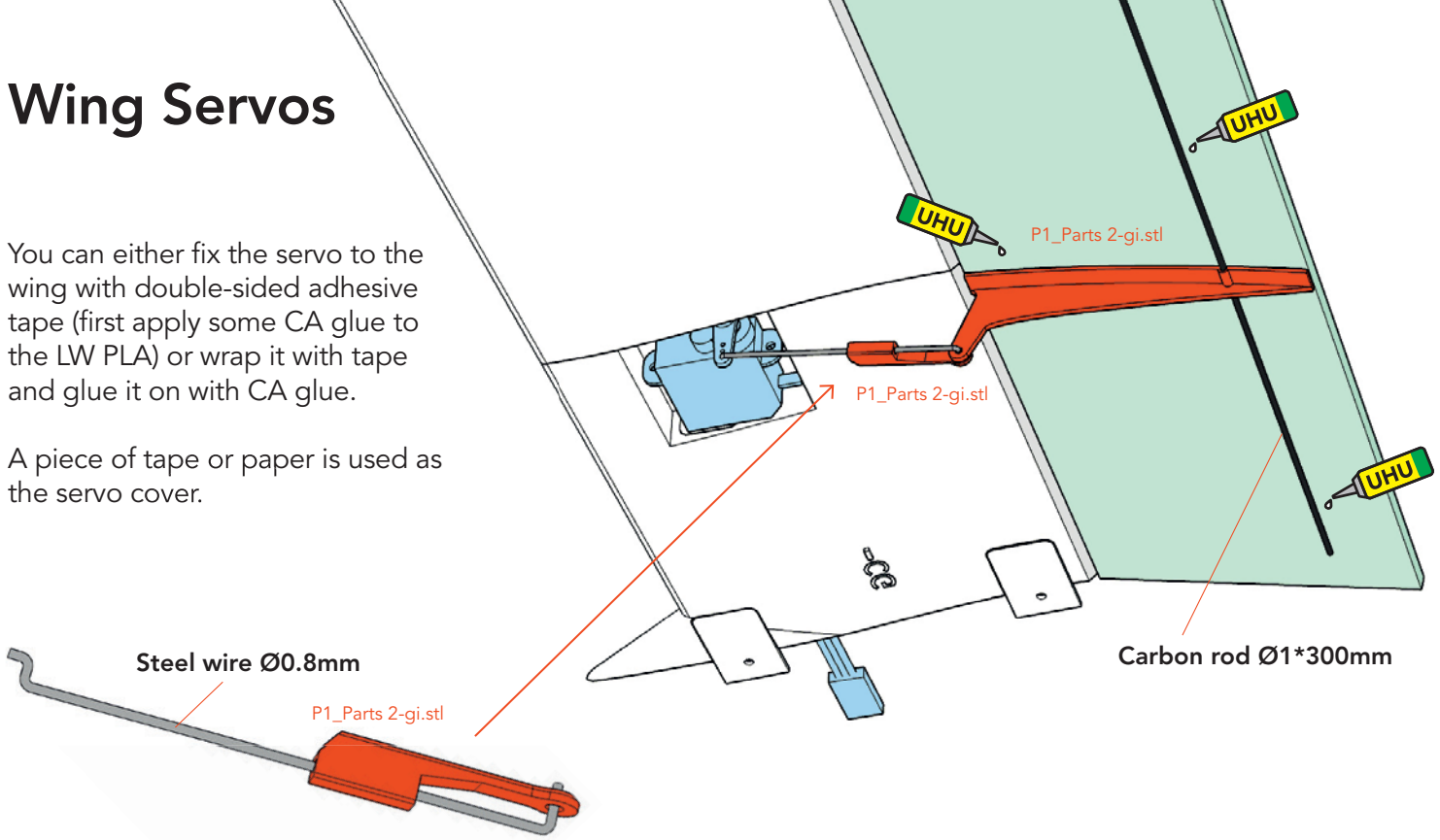
Do not overtighten the strut screws, the strut should be able to be folded to the wing.

Make sure that the aileron can move freely up and down.

Wing Servos

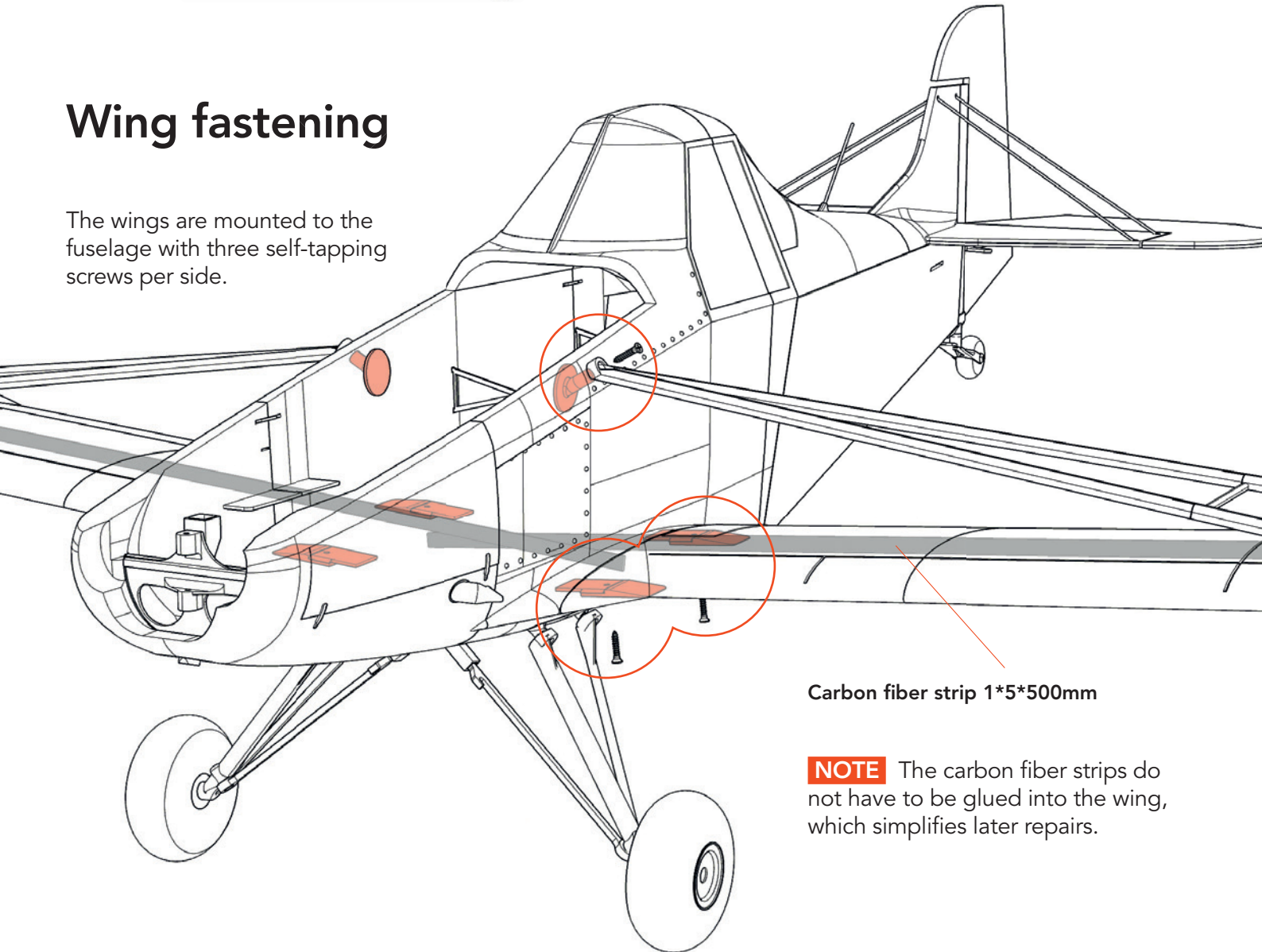
You can either fix the servo to the wing with double-sided adhesive tape (first apply some CA glue to the LW PLA) or wrap it with tape and glue it on with CA glue.

A piece of tape or paper is used as the servo cover.



Wing fastening

The wings are mounted to the fuselage with three self-tapping screws per side.



Carbon fiber strip 1*5*500mm

NOTE The carbon fiber strips do not have to be glued into the wing, which simplifies later repairs.

Fuselage Servos

Prepare **two** linkages as shown here and insert them into the guides in the fuselage.

Shrink tubing or cord
Steel wire Ø0.8 or 0.6mm

STEP 1

Servo side

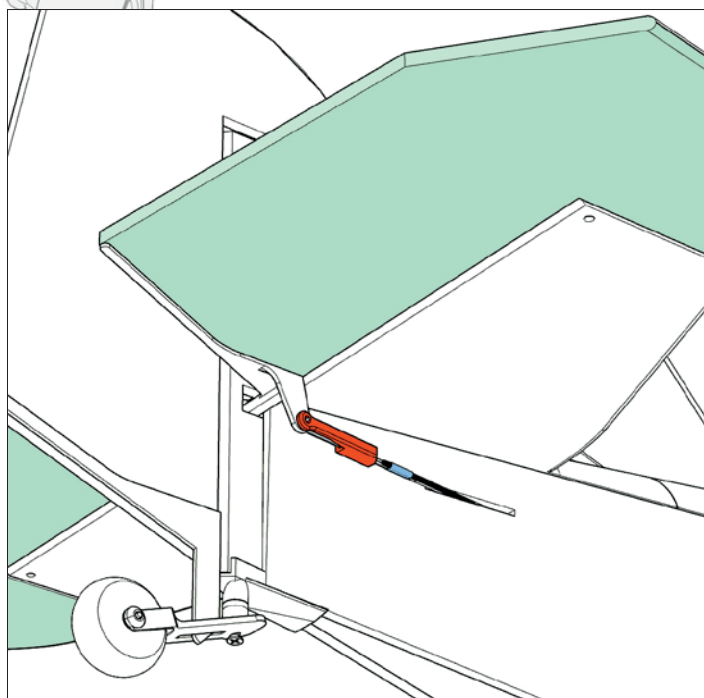
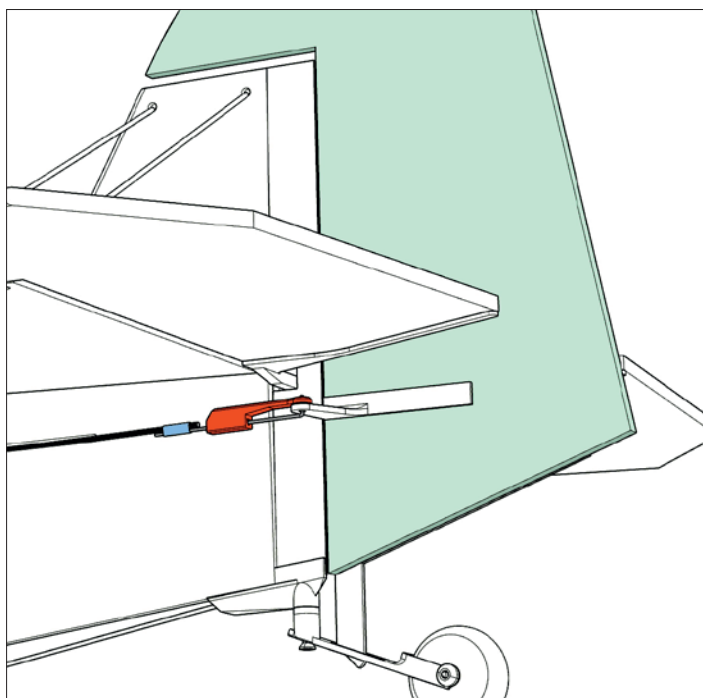
P1_Parts 2-gi.stl

Shrink tubing or cord
Steel wire Ø0.8 or 0.6mm

Carbon rods Ø1mm

UHU

Now glue the fuselage bottom in place.



Motor Vector steering

The motor is mounted as shown in the picture. Tighten the screws of the joint just enough so that the motor can be moved smoothly to the left and right.

Super-Magnet 5x5x5mm

Steel wire Ø0.8 or 0.6mm

Rod connection

P1_Motor cross XXmm-gi.stl

The linkage wire is hooked into the inner hole of the rudder servo arm. Adjust the motor so that it points approx. 3 degrees to the right when viewed from above (See picture on the next page). You can trim the exact angle later in flight with the rudder.

P5_Cover 1-gi.stl

P5_Cover 2-gi.stl

P1_Interconnects-gi.stl

Cover

Stick a super magnet on a piece of tape and place it on the magnet in the fuselage. Put some CA glue in the recess in Cover1 and place the cover on the fuselage. When the glue is hard, you can take it off and remove the tape.

Tape

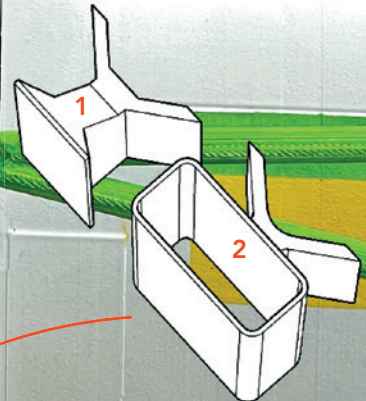
Use this cable clip to attach the controller so that it remains movable for vector control.



P1_Parts 2-gi.stl

Steel wire Ø0.8 or 0.6mm

CAT



There are two options for attaching the battery. For **variant 1**, use self-adhesive Velcro tape. For **variant 2**, stick some foam rubber next to the battery.

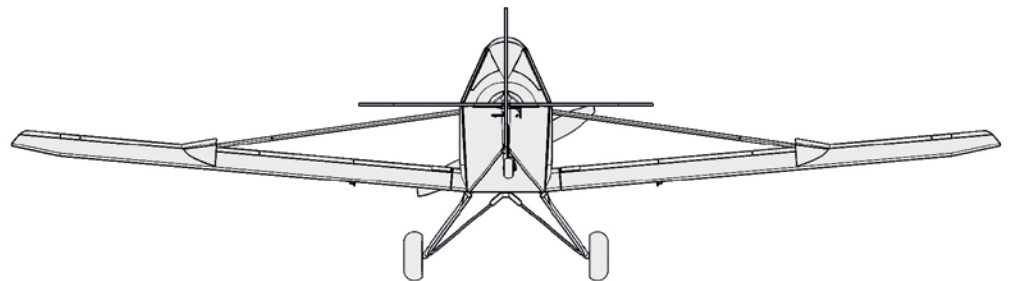
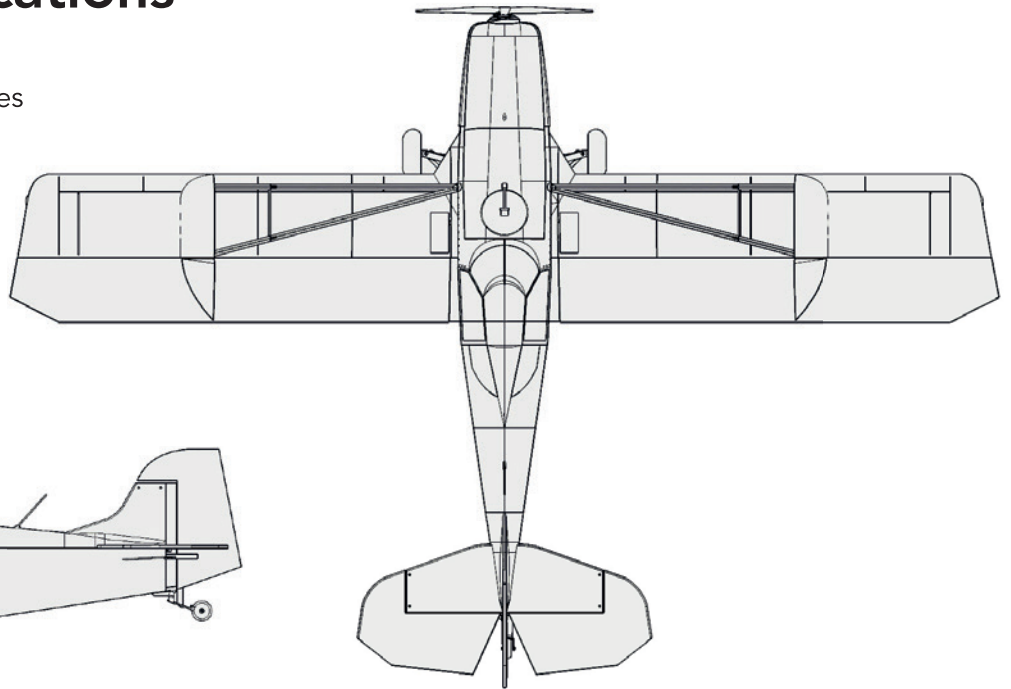
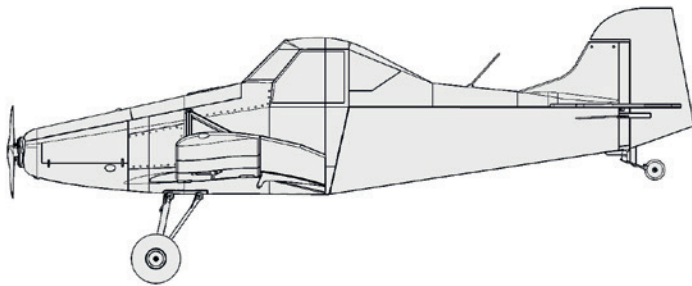
Technical specifications

WINGSPAN 1000 mm/39.3 inches

LENGTH 688 mm/27 inches

FLIGHT WEIGHT 360 grams

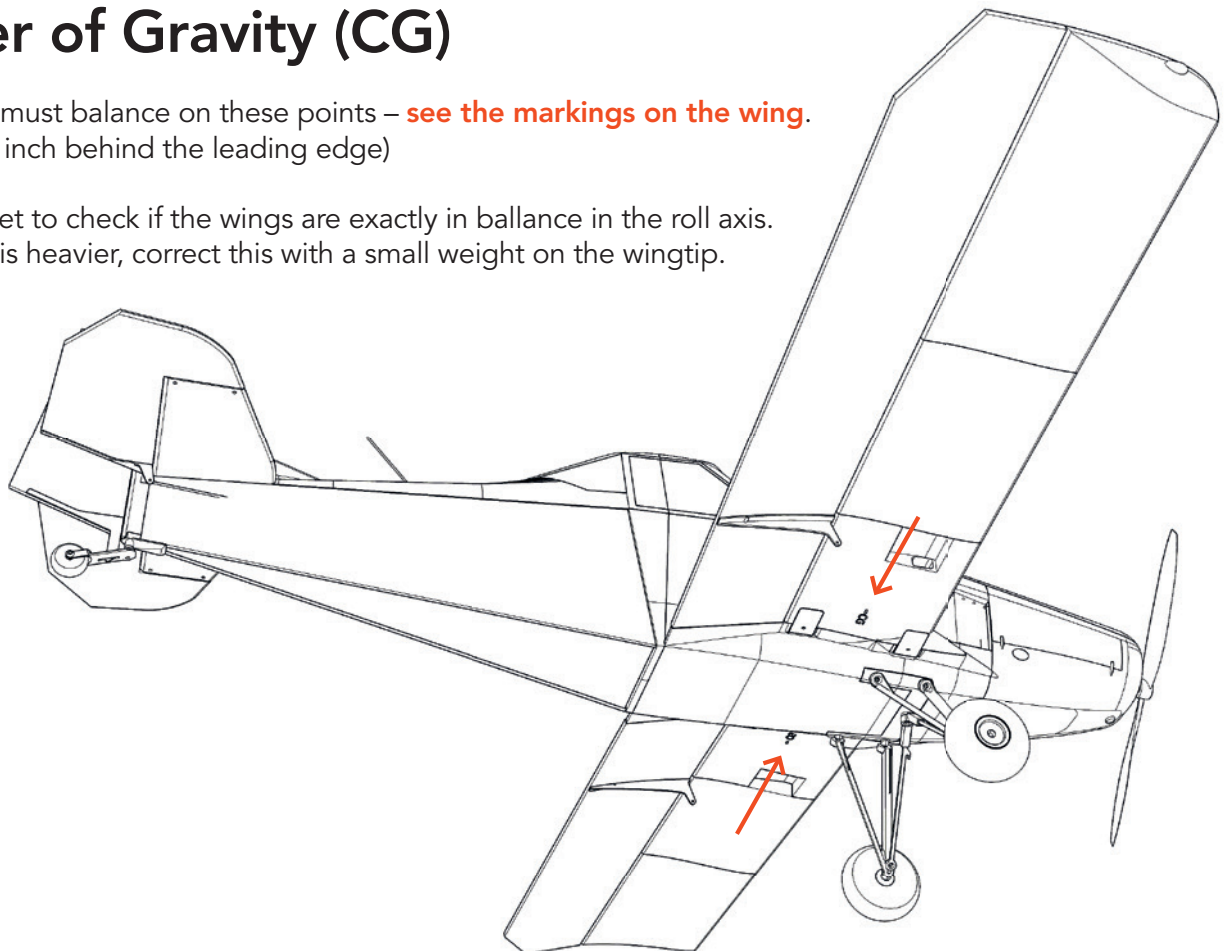
WING LOAD 20 g/dm²



Center of Gravity (CG)

The aircraft must balance on these points – **see the markings on the wing.**
(42 mm/1.6 inch behind the leading edge)

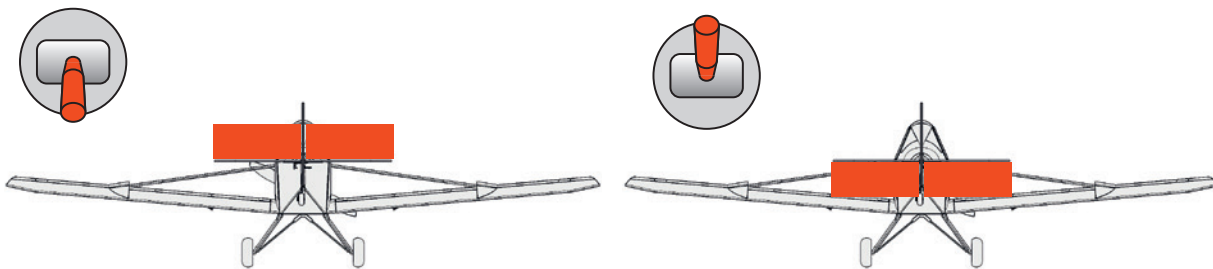
Do not forget to check if the wings are exactly in balance in the roll axis.
If one wing is heavier, correct this with a small weight on the wingtip.



Control Direction Test Look at the aircraft from behind

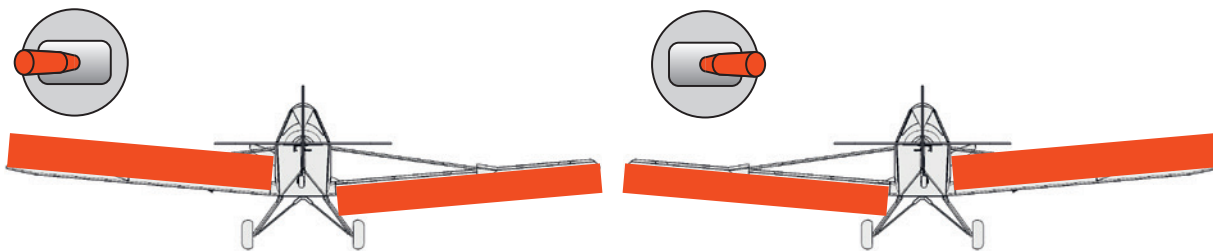
ELEVATOR

30 mm up
30 mm down



AILERON

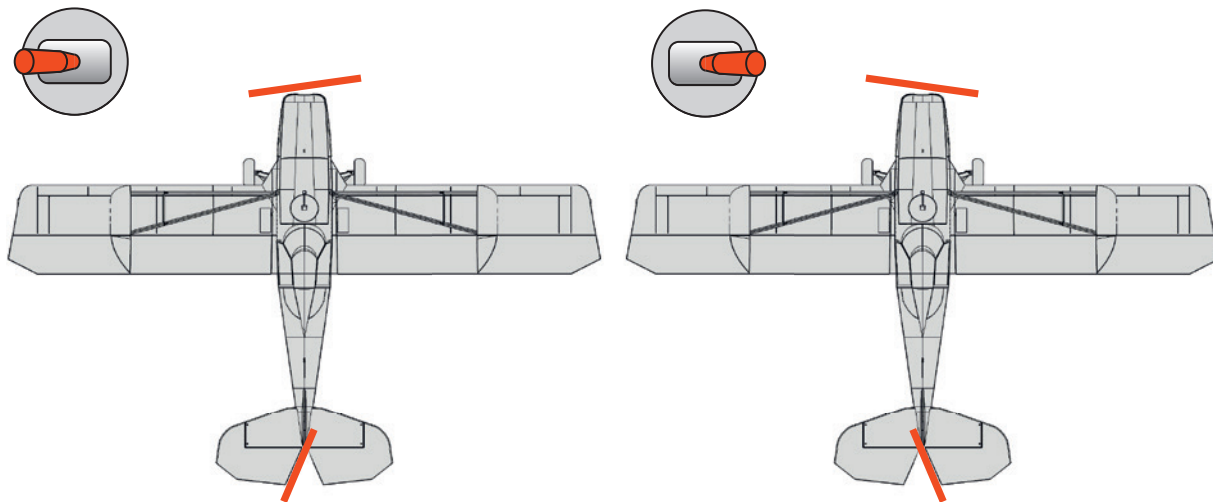
25 mm up
20 mm down



RUDDER

30 mm left
30 mm right

Prop about
5 to 10°



FLAPS

Normal

Start, slow flight, landing



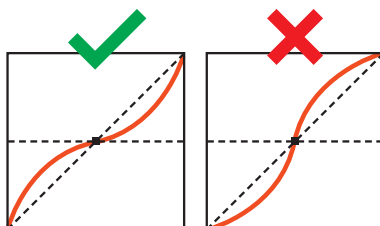
8 mm down
(No elevator correction necessary)

EXPO

ELEVATOR 30 %

AILERON 30 %

RUDDER 30 %



(for some remote controls a minus has to be in front of the number)

AGE RECOMMENDATION 14+

NOT FOR CHILDREN UNDER 14 YEARS. THIS IS NOT A TOY!

The STL data (or data processed from it, such as G codes) must never be passed on to third parties!

The purchase of the STL does not authorize the production of models for third parties.

By using the download data, an RC model airplane, called „model“ for short, can be manufactured using a 3D printer. As a user of this model, only you are responsible for safe operation that does not endanger you or others, or that does not damage the model or property of others.

PLANEPRINT.com assumes no responsibility for damage to persons and property caused by pressure, transport or use of the product. Filaments, printing supplies, hardware or consumables that can not be used after faulty 3D printing will not be replaced by PLANEPRINT.com in any way.

When operating, always keep a safe distance from your model in all directions to avoid collisions and injuries.

This model is controlled by a radio signal. Radio signals can be disturbed from outside without being able to influence it. Interference can lead to a temporary loss of control.

Always operate your model on open terrains, far from cars, traffic and people.

Always follow the instructions and warnings for this product and any optional accessories (servos, receivers, motors, propellers, chargers, rechargeable batteries, etc.) carefully.

Keep all chemicals, small parts and electrical components out of the reach of children.

Avoid water contact with all components that are not specially designed and protected. Moisture damages the electronics.

Never take an item of the model or accessory in your mouth as this can lead to severe injuries or even death.

Never operate your model with low batteries in the transmitter or model.

Always keep the model in view and under control.
Use only fully charged batteries.

Always keep the transmitter switched on when the model is switched on.

Always remove the battery before disassembling the model.

Keep moving parts clean and dry at all times.

Always allow the parts to cool before touching them.

Always remove the battery after use.

Make sure that the Failsafe is properly set before the flight.

Never operate the model with damaged wiring.

Never touch moving parts.

We develop our models to the best of our knowledge and belief.
We accept no liability for consequential damage and injuries caused by improper use or incorrectly printed parts. **Please be careful when handling motors, batteries and propellers** and only move your model with insurance and in approved places!

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