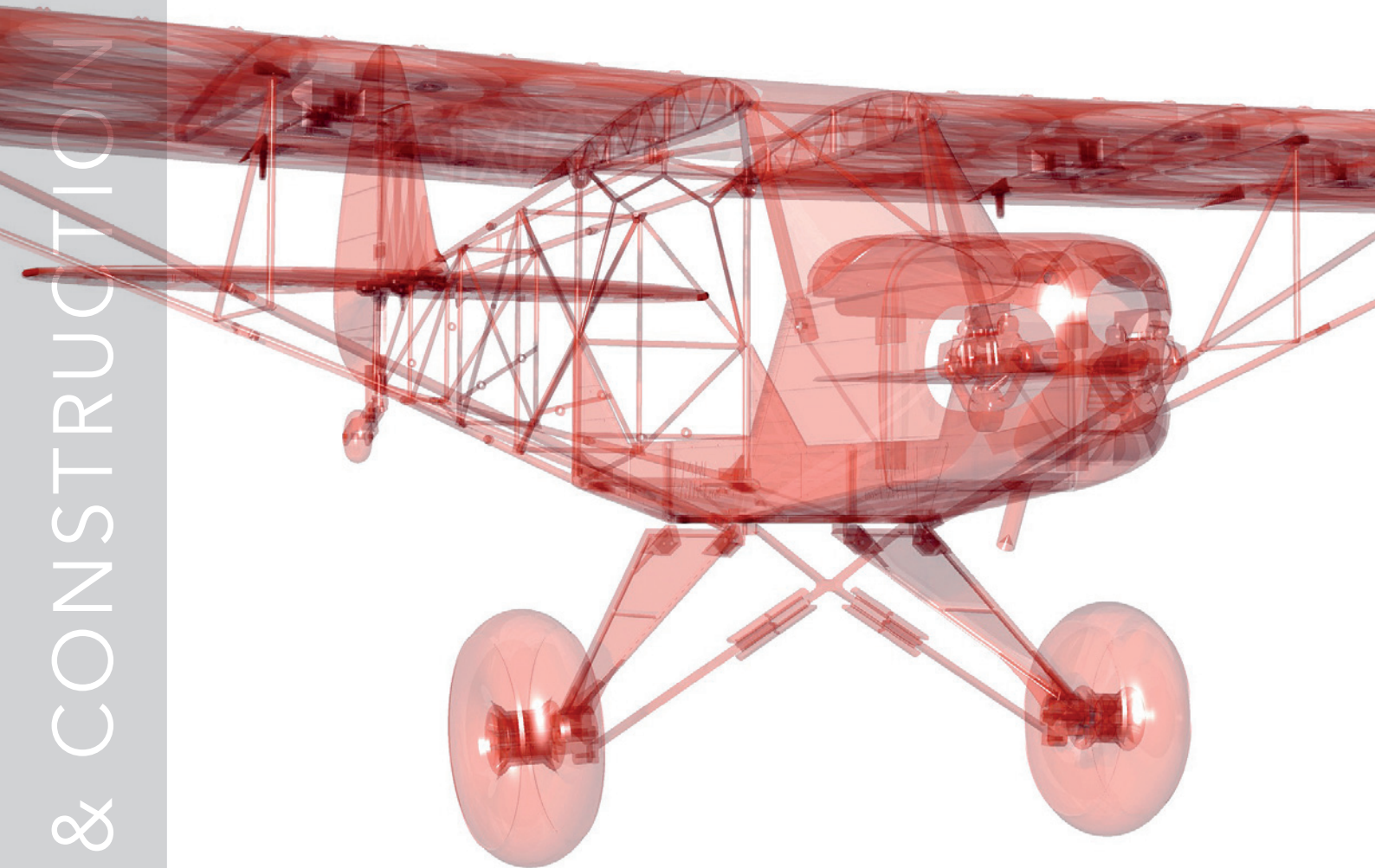


PLANE PRINT.com

very light 3d printable rc planes



„BIG BOBBER“

- Very detailed Scale model in 3D lightweight construction.
- Real 1 wall construction (Currently only supported by CURA!).
- Wingspan 1370 mm (54 inches).



WATCH OUT!
This 3D print model
is specially optimized
for CURA.



STL DATA FOR DOWNLOADING
AT www.planeprint.com

THE ORIGINAL AIRPLANE



The Savage went into production between 1997 and 1998 in Italy. The idea was to develop an aircraft with good handling and STOL properties, in the classic, proven design and traditional construction, which is economical and easy to build but also to repair.

Inspired by one of the 20th century aviation legends - the Piper Cub - several prototypes were built by SAVAGE designers, aeronautical engineers Bonaldo, Franchini and Vizzini (the latter had worked for Aeritalia and was a long time before joining Aermacchi at Boeing in Seattle) which should form the basis for the final Savage in the ULM category.

Designed with the most advanced CAD design and simulation software (CATIA, Solidworks and NAS-TRAN), the Savage has undergone an intensive validation process for on-board static testing and testing to meet the most stringent industry standards for lightweight aircraft design and manufacturing.

Shortly after its conception and prior to its official launch, the Savage won first prize in 1999 as the Best Plan-Built Ultralight at the Experimental Aircraft Association meeting in Carpi, Italy. In 1999, the production of the Savage was relocated to the Czech

Republic and since then, the aircraft manufacturer Zlin Aviation S.r.o. carried out. The highest quality aviation materials from the USA, Italy and France are processed by the most competent staff.



By May 2014, more than 280 Savages had been delivered to various countries worldwide. Zlin Aviation is always looking for new markets and dealers. Do not hesitate to contact Zlin if you think you want to become part of the dealer network.

Courtesy of Zlin Aviation S.r.o.

PRINTING THE PARTS – PRINTING PROFILES

You may wonder why this 3D model is suitable exclusively for CURA right?

The most important thing about small RC model airplanes is always the ratio of size to weight. The lighter a model is, the better its flight characteristics and also the flight time is significantly increased.

With our unique design process, we manage to make Weights relevant items in a **true 1-wall printing process** for the outer skin but also for the filling offer. So we save weight while maintaining the necessary stability.

Here we show you how to get started from a standard CURA profile Make settings. For this model we only need 4, easy to create profiles.

It is **absolutely necessary** to observe the information provided by **PLANEPRINT.com** in order: to slice the component correctly. However, it may make sense to perfect your 3D printing by additionally performing several hiring activities depending on your printer and the filament used.

For slicing all Planeprint models, four profiles have to be created in Cura:

PROFILE P1_fullbody
PROFILE P2_hollowbody
PROFILE P3_surface
PROFILE P4_flex

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

Important for the 1-wall-print!

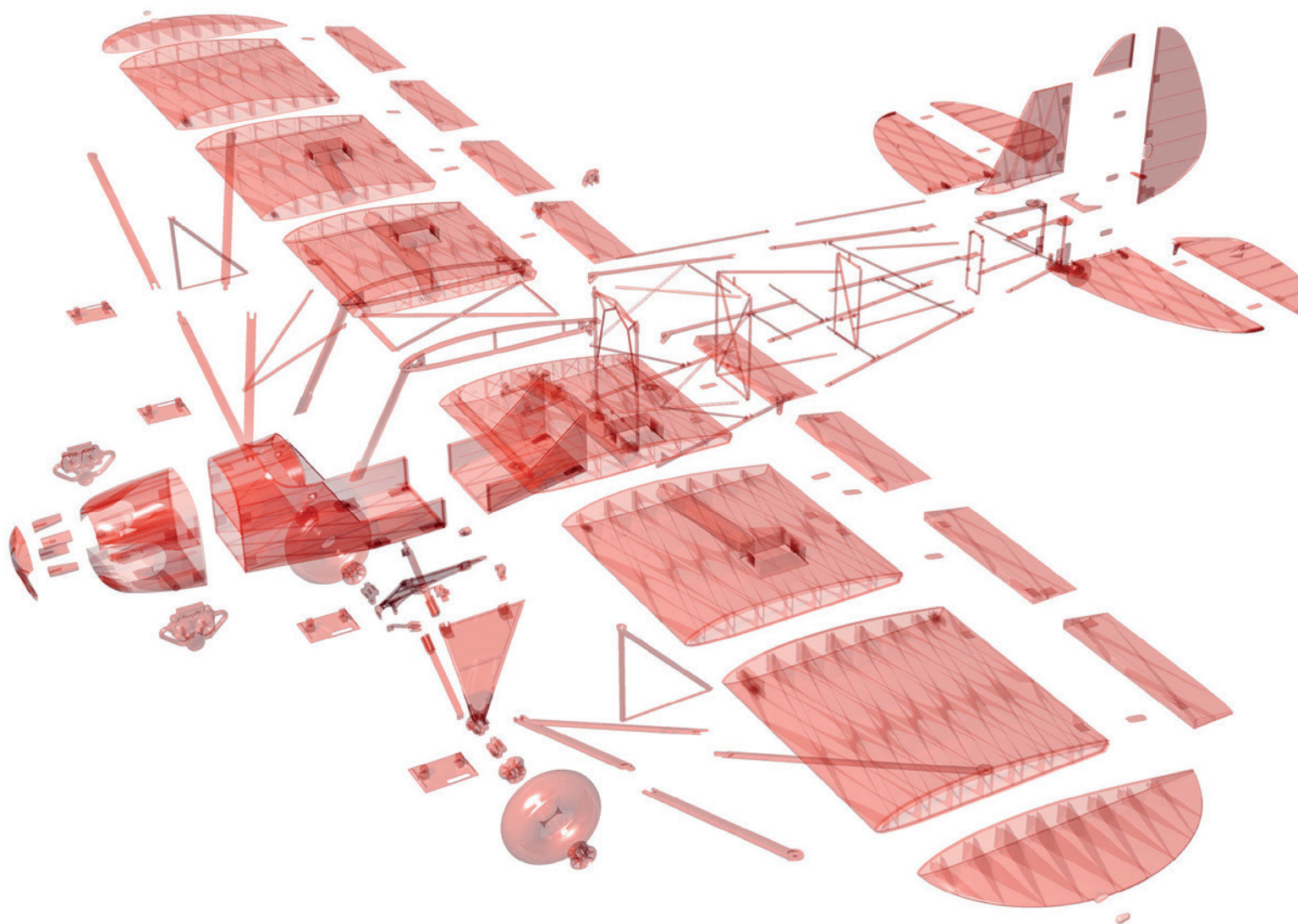
In order to print airfoils of the lowest possible weight with high stability, it is necessary to print with only one wall line (Nozzle 0.4 mm). Decisive here is the adhesion between the layers! To achieve this, you must print at a much higher temperature than normal. As a **guideline**, 230 ° C is a good starting point. The parts-cooling fan should be set to 0% or a maximum of 20%. Since not every printer works the same, it may be necessary to make small adjustments to these settings.



The development of a complex, airworthy RC flight model to express on any standard 3D printer is a very complex and extensive process. Therefore, we appeal to your fairness not to forward the STL data you have acquired to third parties. Our STL files are provided with indelible copyright watermarks that can be verified at any time.

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

PRINTING MANUAL



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

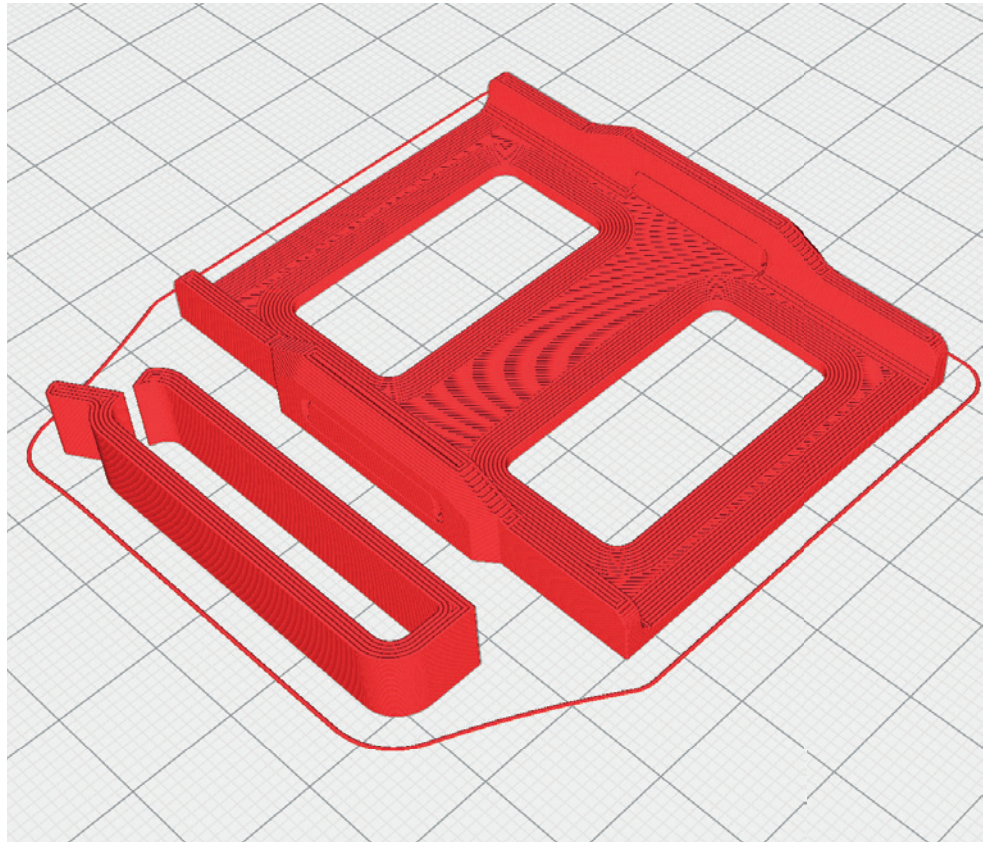
INFO

STL:
Battery holder_profile1_bb.stl

Material: PLA
Weight: ~ 7 g

ADDITIONAL SETTINGS

- Wall Line Count 8
- Generate Support checked



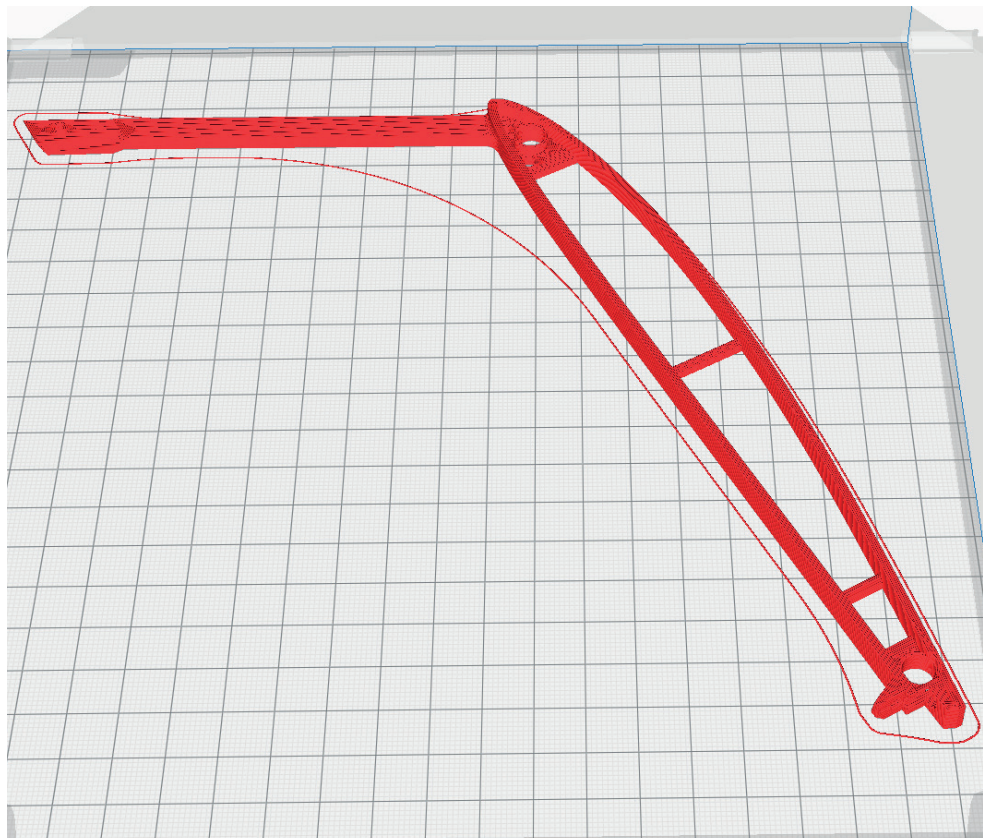
INFO

STL:
Canopy 1-left_profile1_bb.stl
Canopy 1-right_profile1_bb.stl

Material: PLA
Weight: ~ 11 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

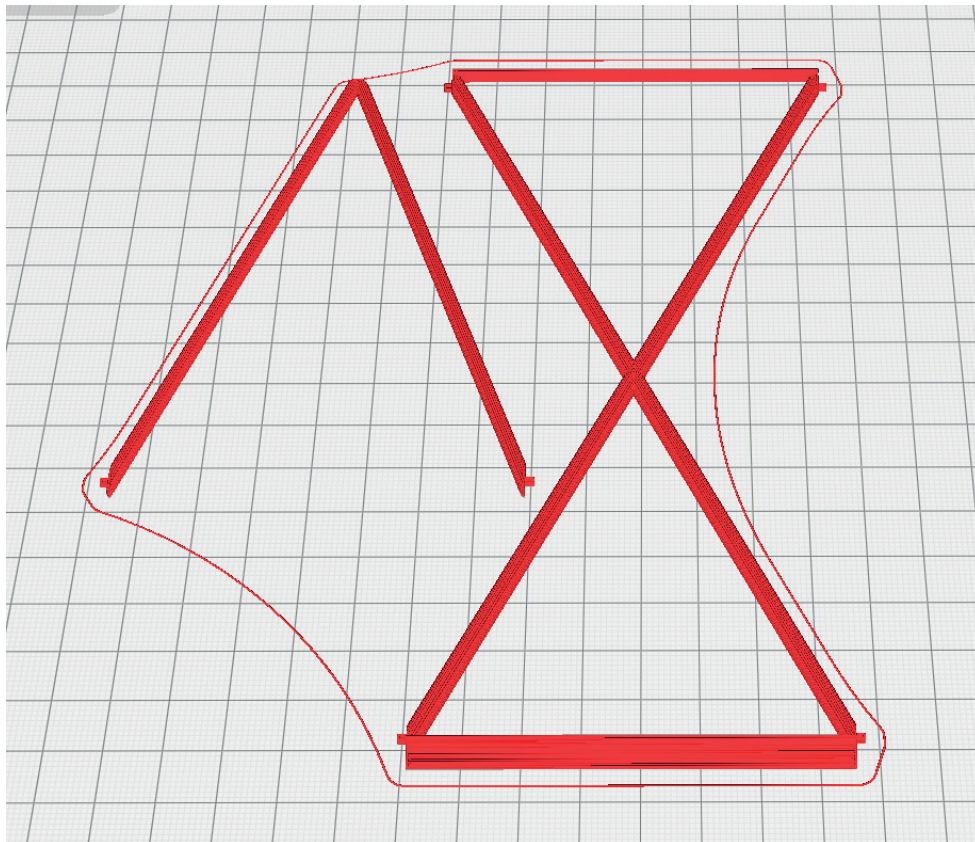
INFO

STL:
Canopy 2_profile1_bb.stl

Material: PLA
Weight: ~ 7 g

ADDITIONAL SETTINGS

- Wall Line Count 8



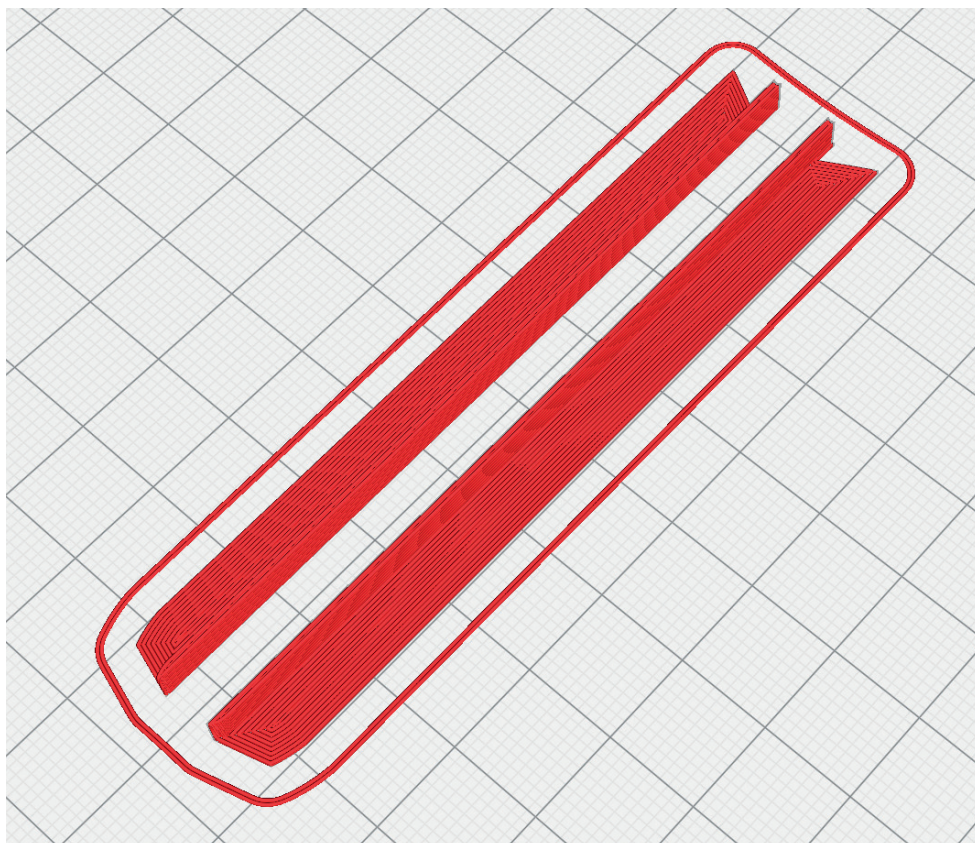
INFO

STL:
Wind shield edge_profile1_bb.stl

Material: PLA
Weight: ~ 2 g

ADDITIONAL SETTINGS

- Wall Line Count 10



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

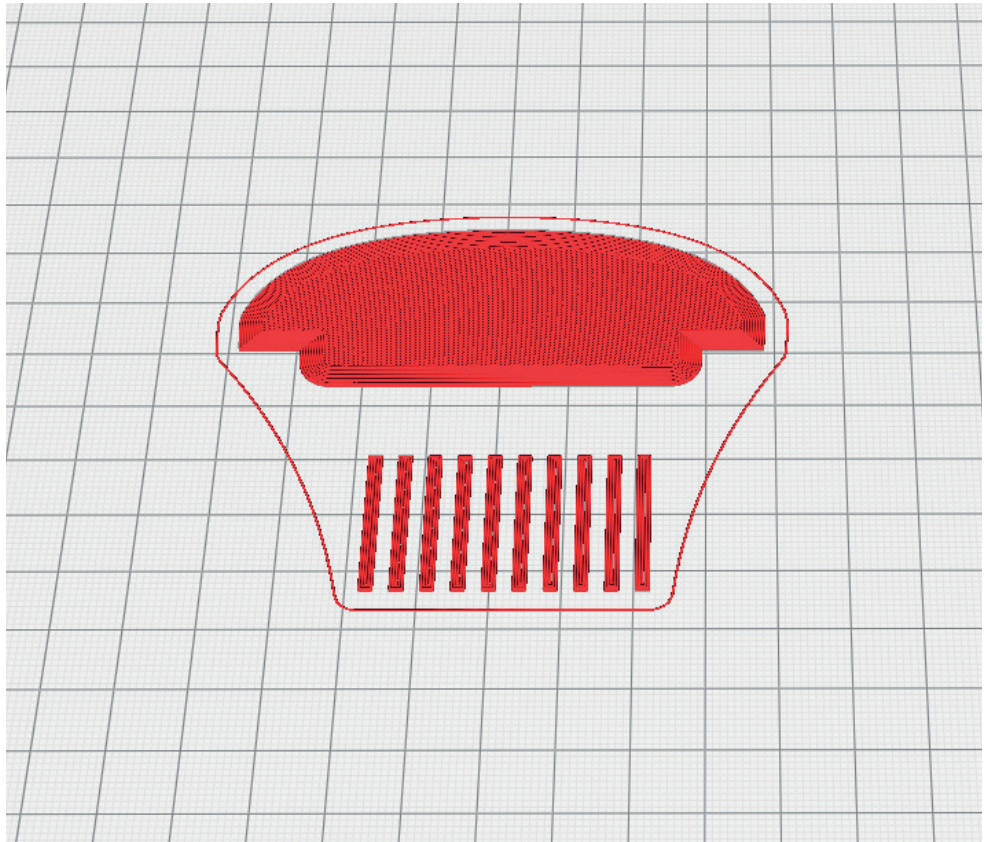
INFO

STL:
Cockpit_profile1_bb.stl

Material: PLA
Weight: ~ 2 g

ADDITIONAL SETTINGS

- Wall Line Count 8



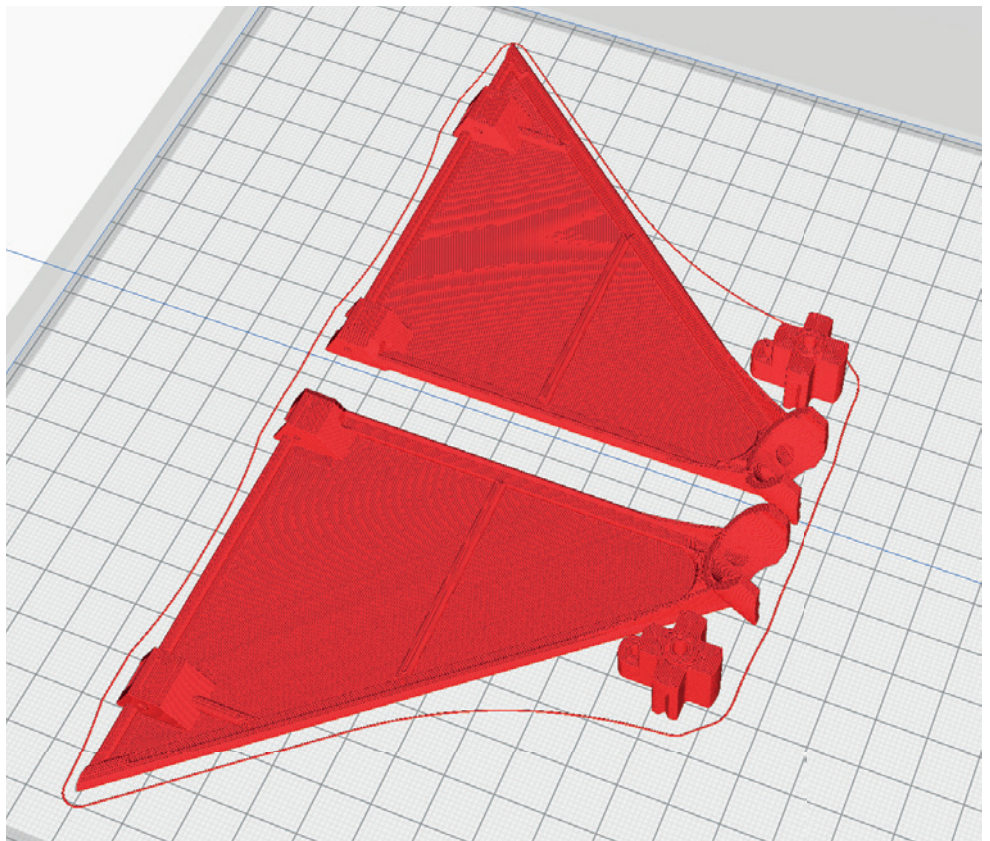
INFO

STL:
Gear 1_profile1_bb.stl

Material: PLA
Weight: ~ 25 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

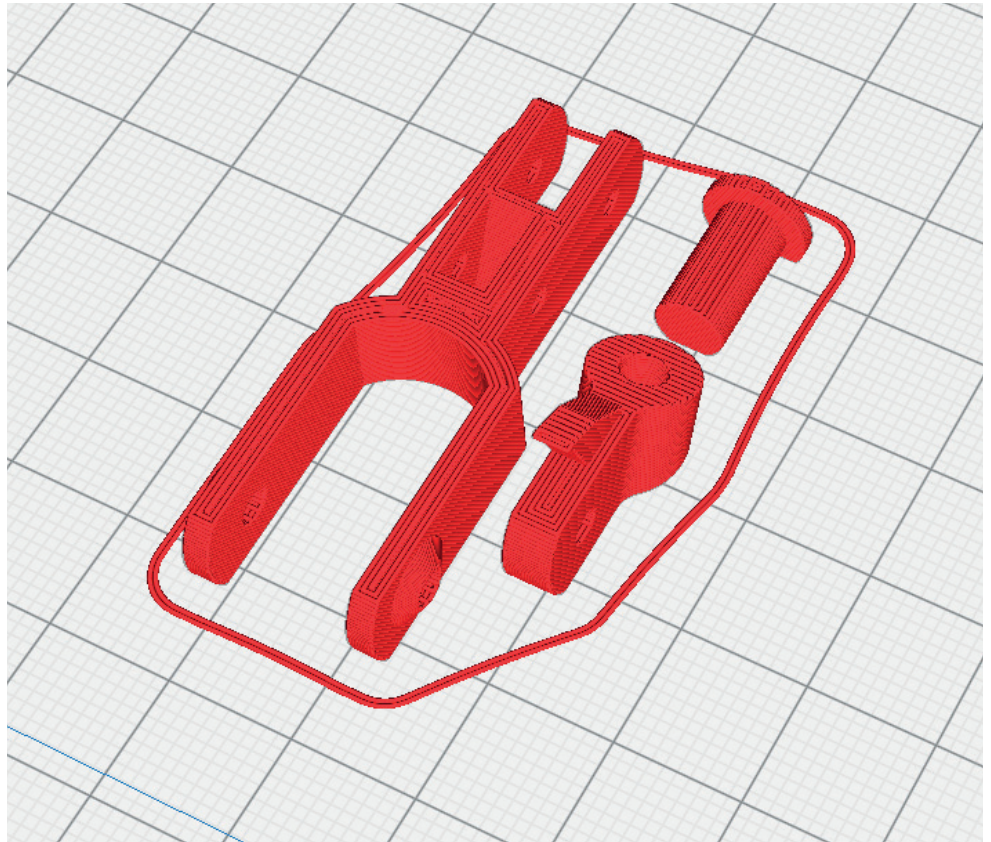
INFO

STL:
Gear back_profile1_bb.stl

Material: PLA
Weight: ~ 3 g

ADDITIONAL SETTINGS

- Wall Line Count 8



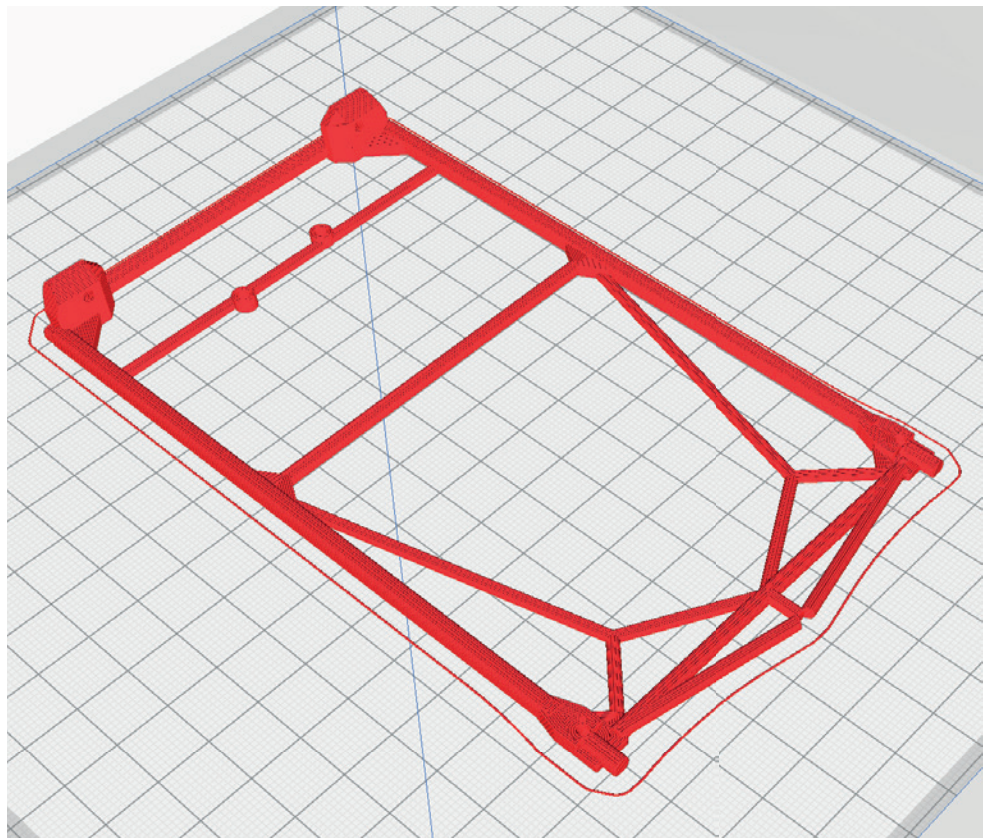
INFO

STL:
Grid 1_profile1_bb.stl

Material: PLA
Weight: ~ 10 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

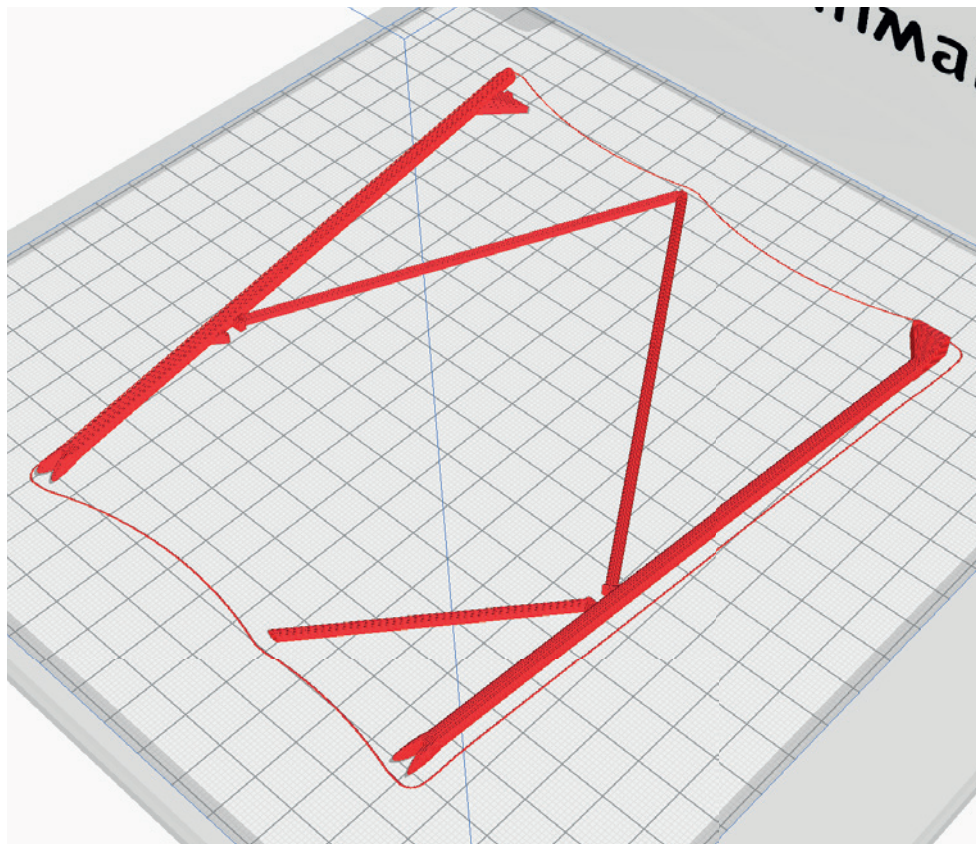
INFO

STL:
Grid 2-left_profile1_bb.stl
Grid 2-right_profile1_bb.stl

Material: PLA
Weight: ~ 8 g

ADDITIONAL SETTINGS

- Wall Line Count 8



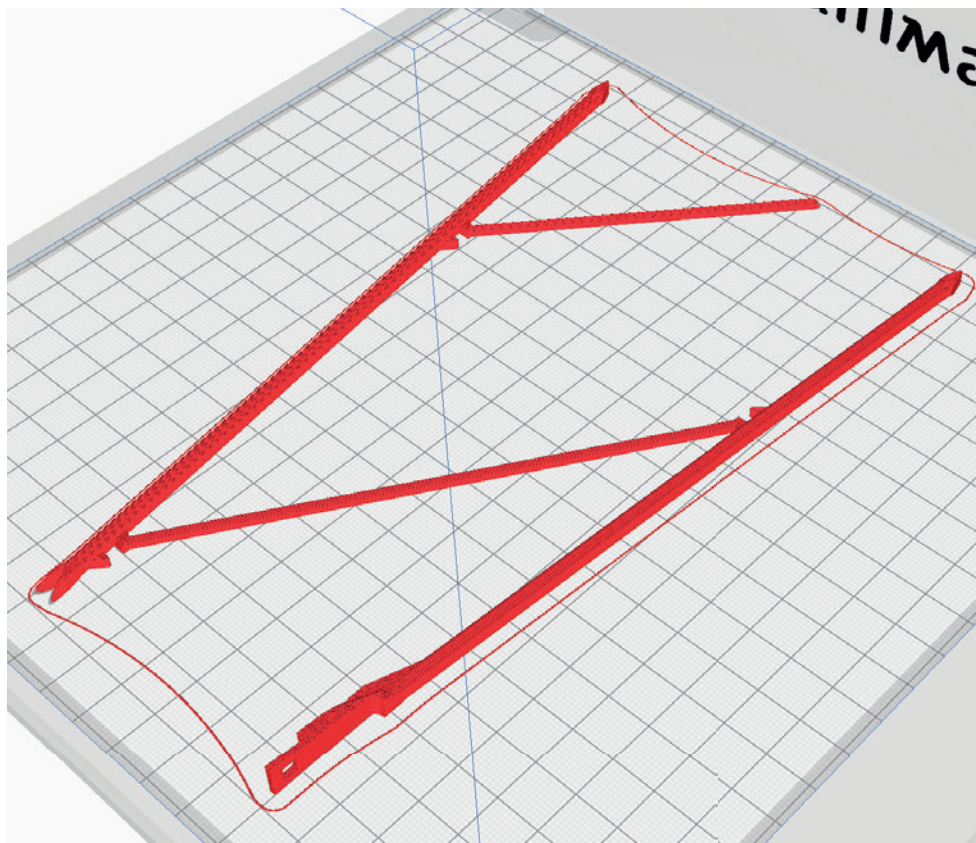
INFO

STL:
Grid 3-left_profile1_bb.stl
Grid 3-right_profile1_bb.stl

Material: PLA
Weight: ~ 8 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

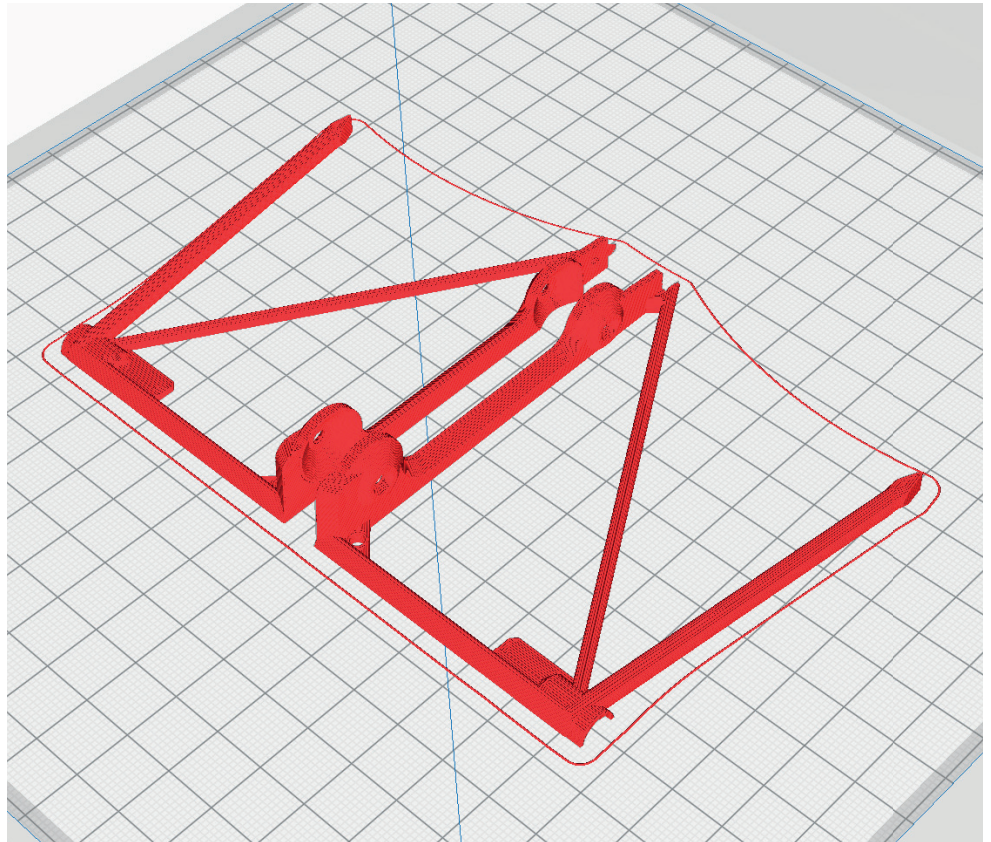
INFO

STL:
Grid 4_profile1_bb.stl

Material: PLA
Weight: ~ 10 g

ADDITIONAL SETTINGS

- Wall Line Count 8



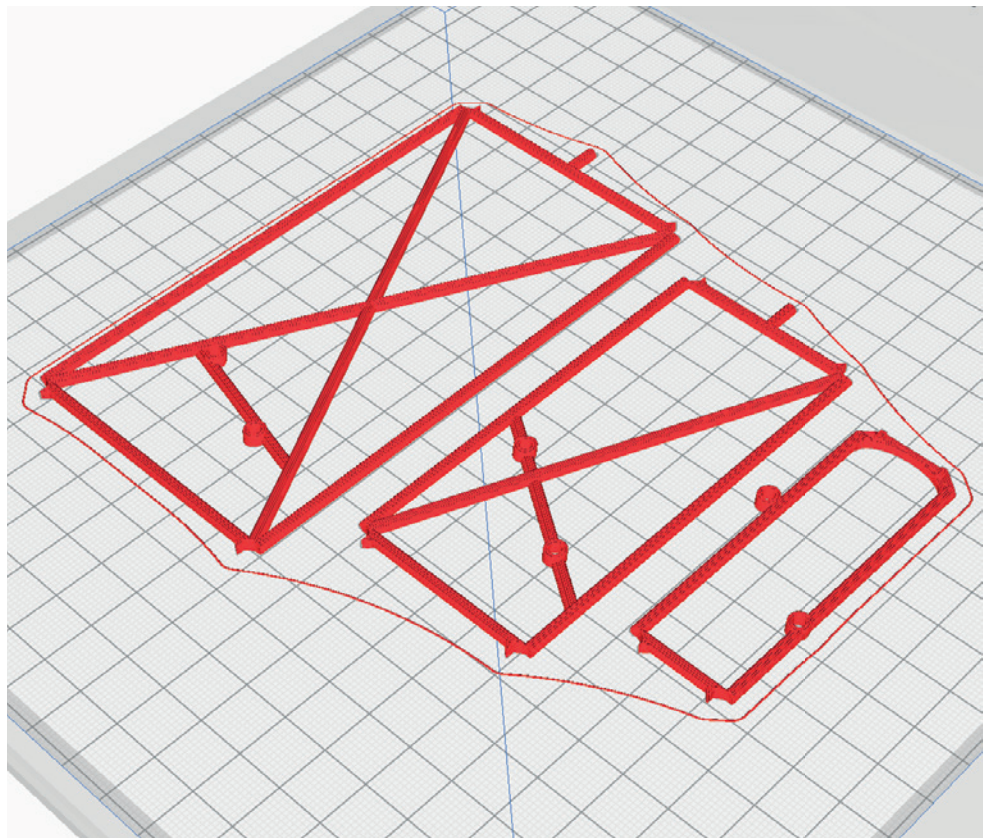
INFO

STL:
Grid 5_profile1_bb.stl

Material: PLA
Weight: ~ 8 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

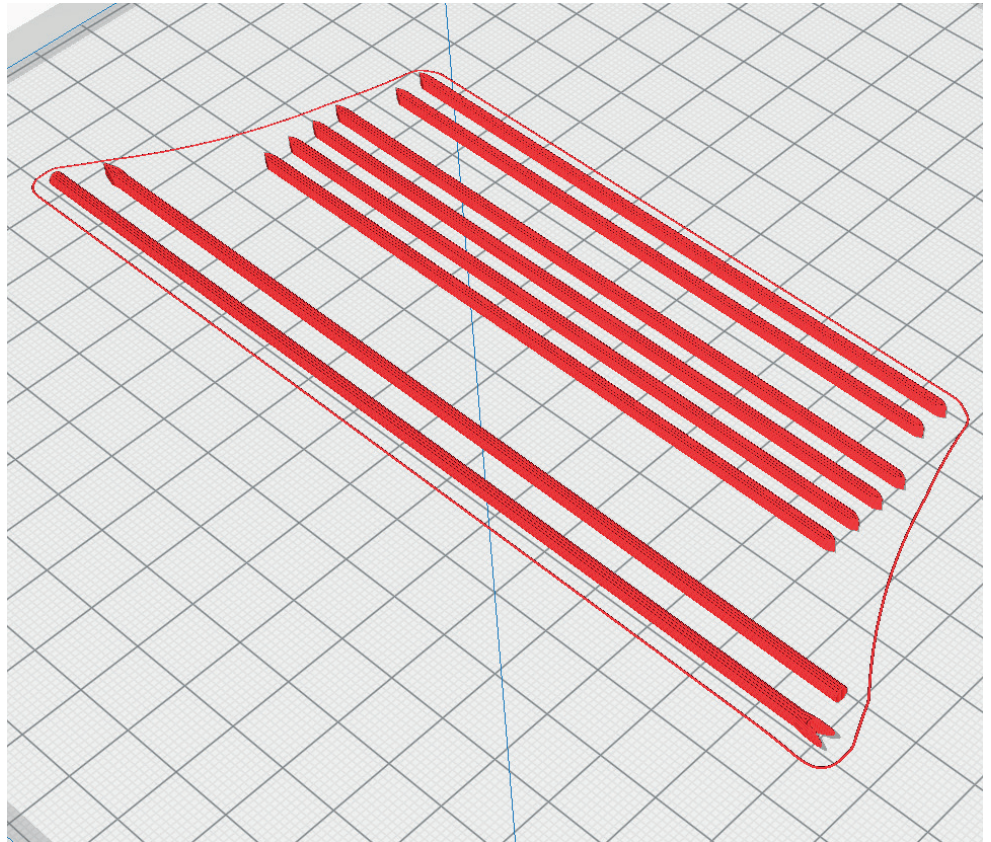
INFO

STL:
Grid 6_profile1_bb.stl

Material: PLA
Weight: ~ 7 g

ADDITIONAL SETTINGS

- Wall Line Count 8



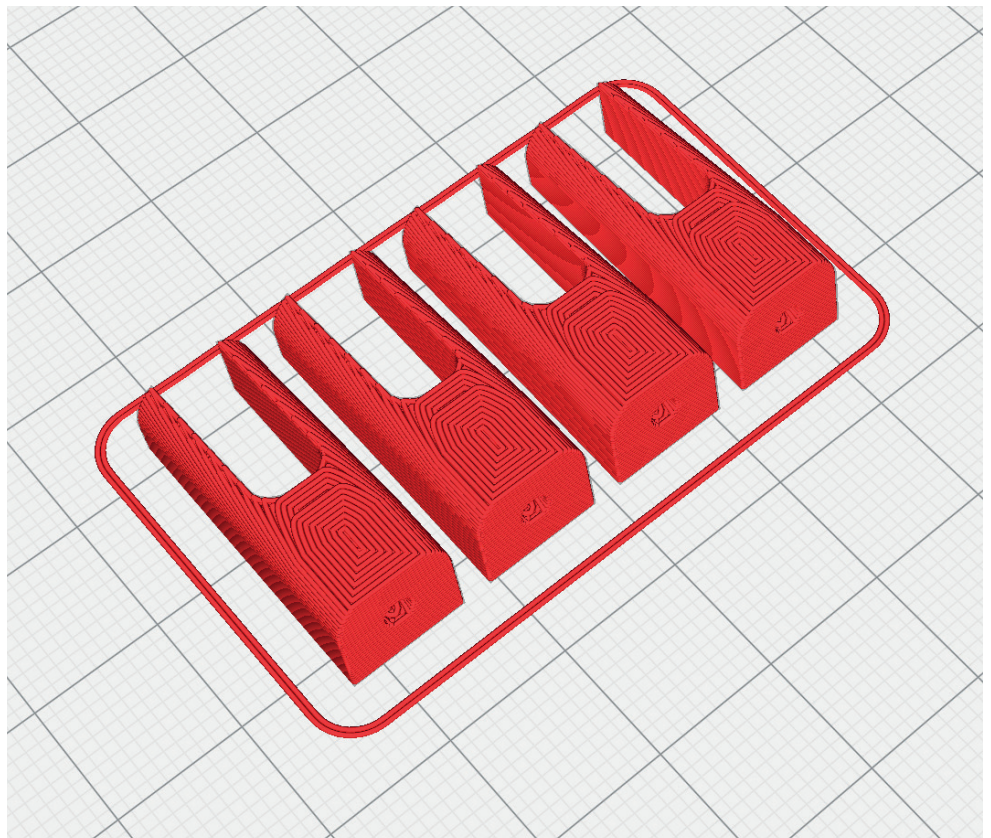
INFO

STL:
Motor mount-21mm_profile1_bb.stl
Motor mount-customizable_profile1_bb.stl

Material: PLA
Weight: ~ 5 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

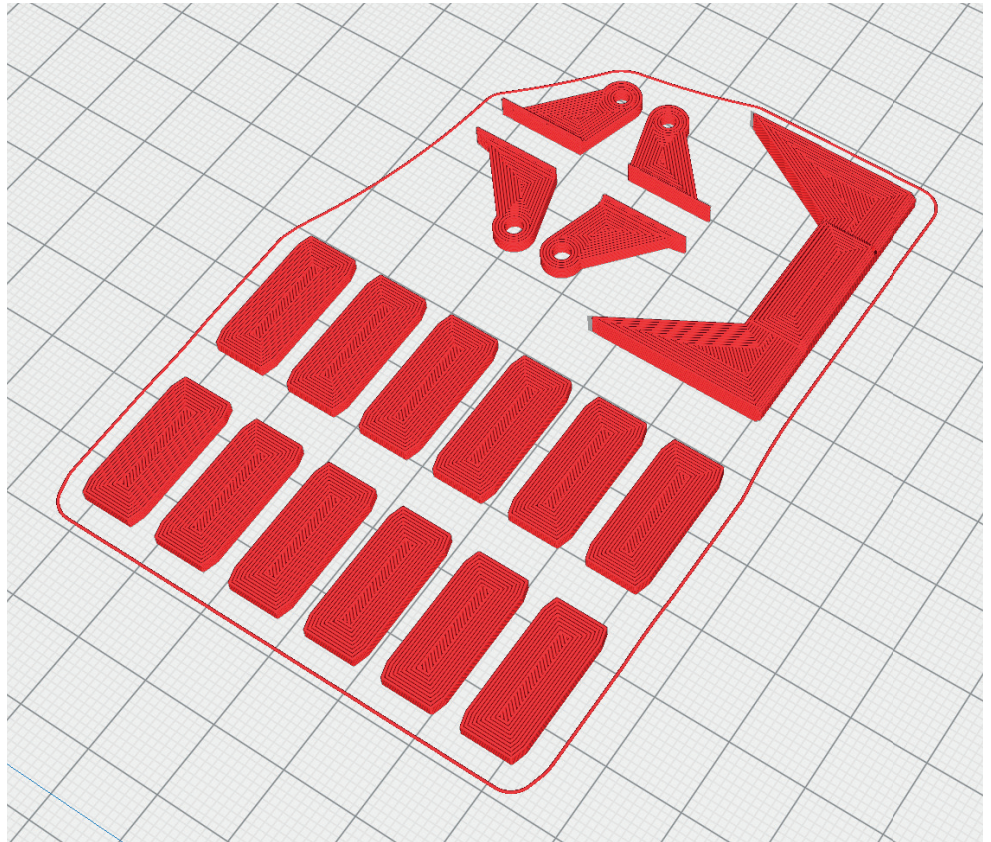
INFO

STL:
Parts_profile1_bb.stl

Material: PLA
Weight: ~ 7 g

ADDITIONAL SETTINGS

- Wall Line Count 8



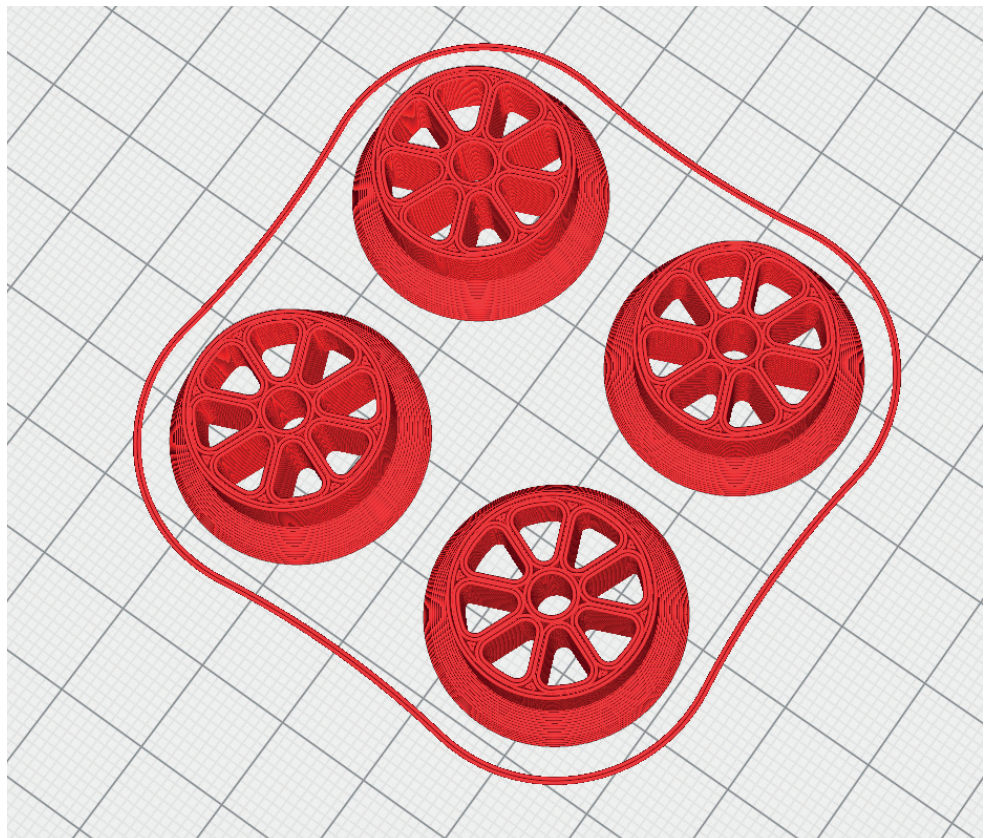
INFO

STL:
Rims_profile1_bb.stl

Material: PLA
Weight: ~ 10 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

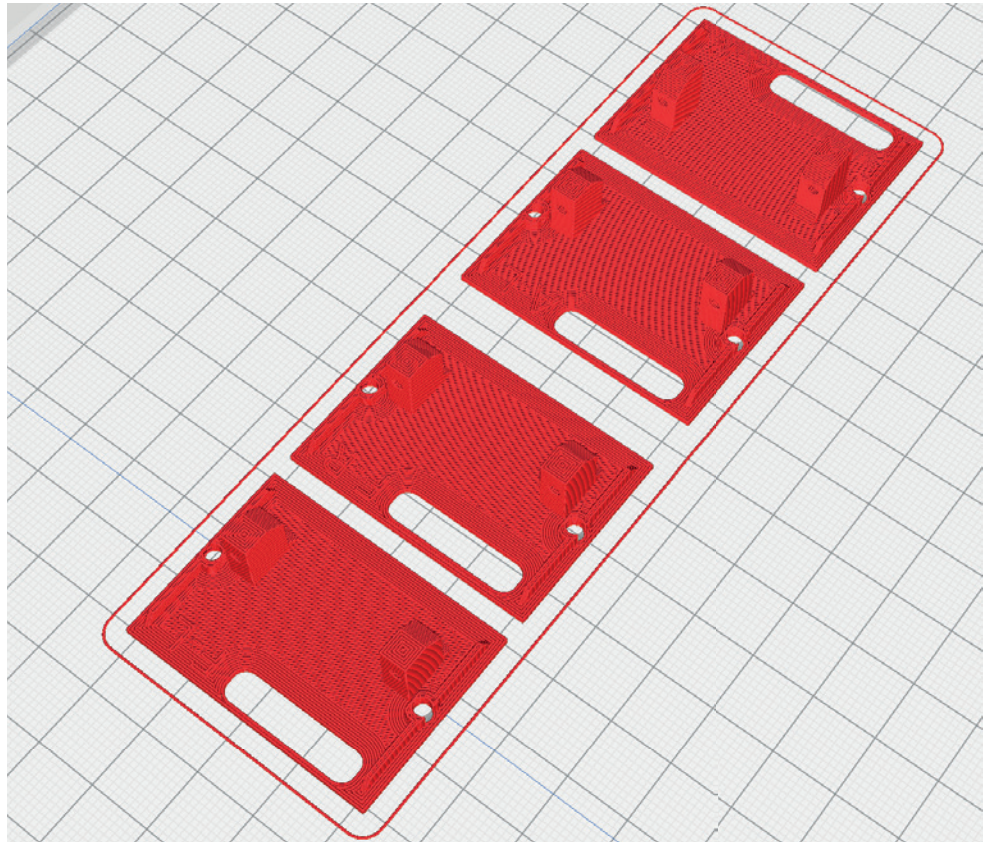
INFO

STL:
Servocover (...)_profile1_bb.stl

Material: PLA
Weight: ~ 10 g

ADDITIONAL SETTINGS

- Wall Line Count 8



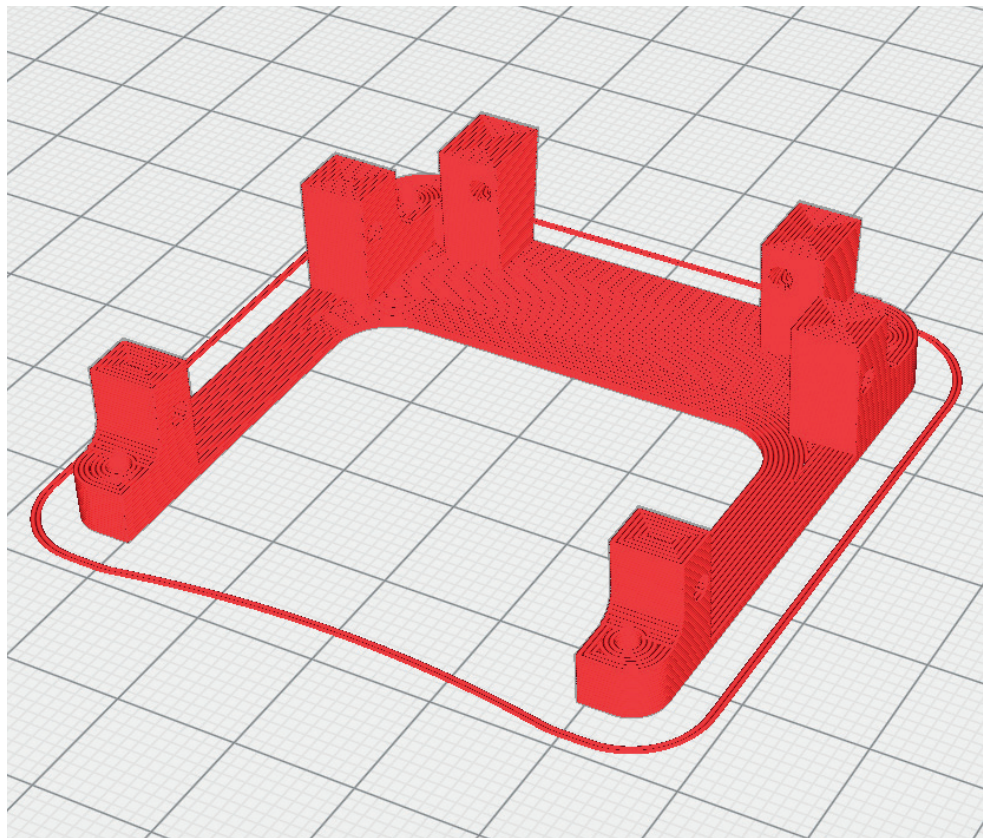
INFO

STL:
Servo mount (...)_profile1_bb.stl

Material: PLA
Weight: ~ 4 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P1_FULLBODY

The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

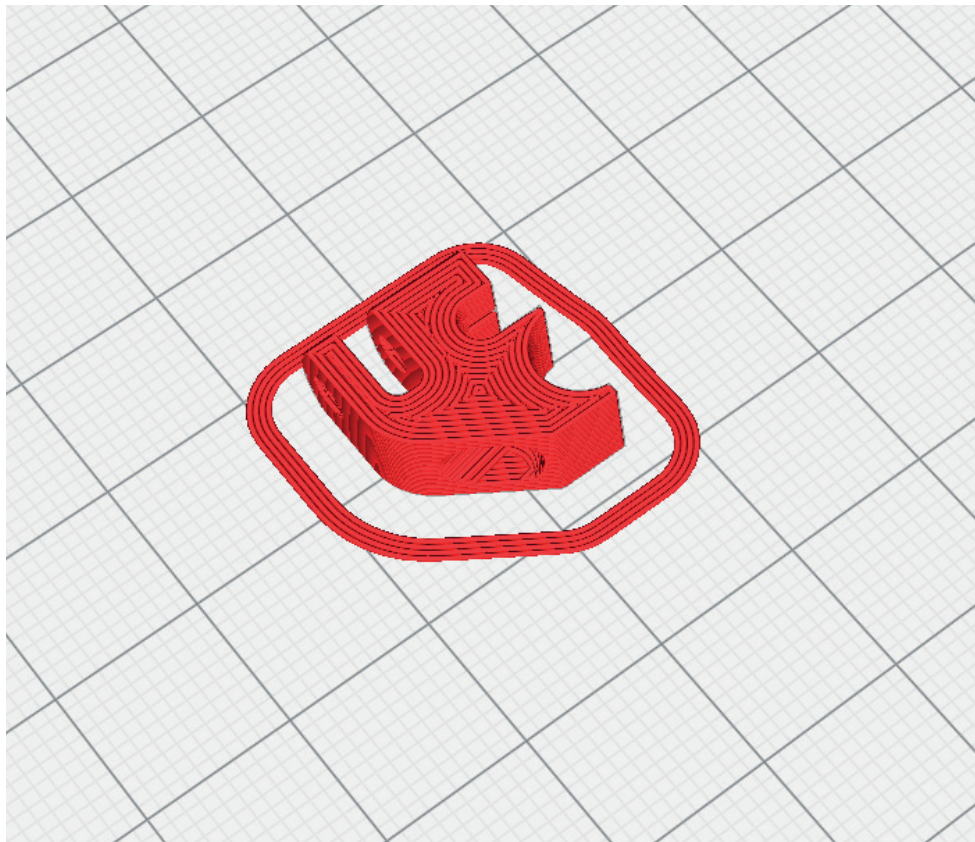
INFO

STL:
Tow coupling_profile1_bb.stl

Material: PLA
Weight: ~ 1 g

ADDITIONAL SETTINGS

- Wall Line Count 8



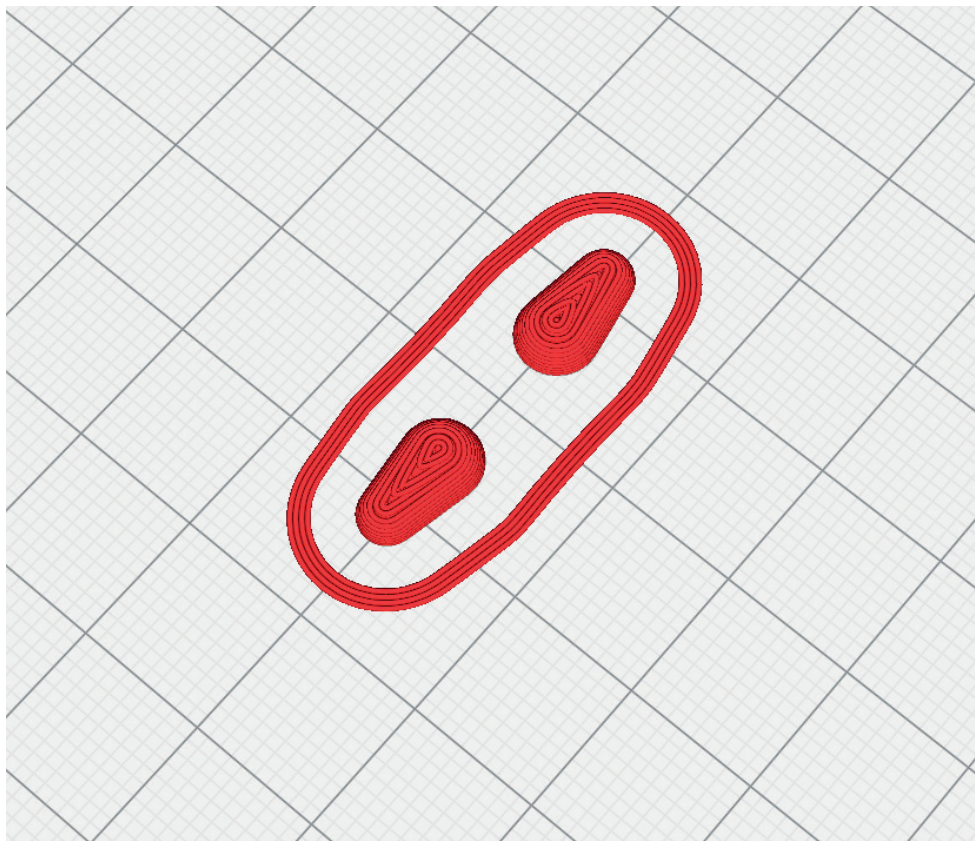
INFO

STL:
Position lights_profile1_bb.stl

Material: transparent PLA
Weight: ~ 1 g

ADDITIONAL SETTINGS

- Wall Line Count 8



PROFILE P2_HOLLOWBODY

The following parts must be sliced with the profile PROFILE P2_HOLLOWBODY.
Recommended additional settings are listed in the screenshots.

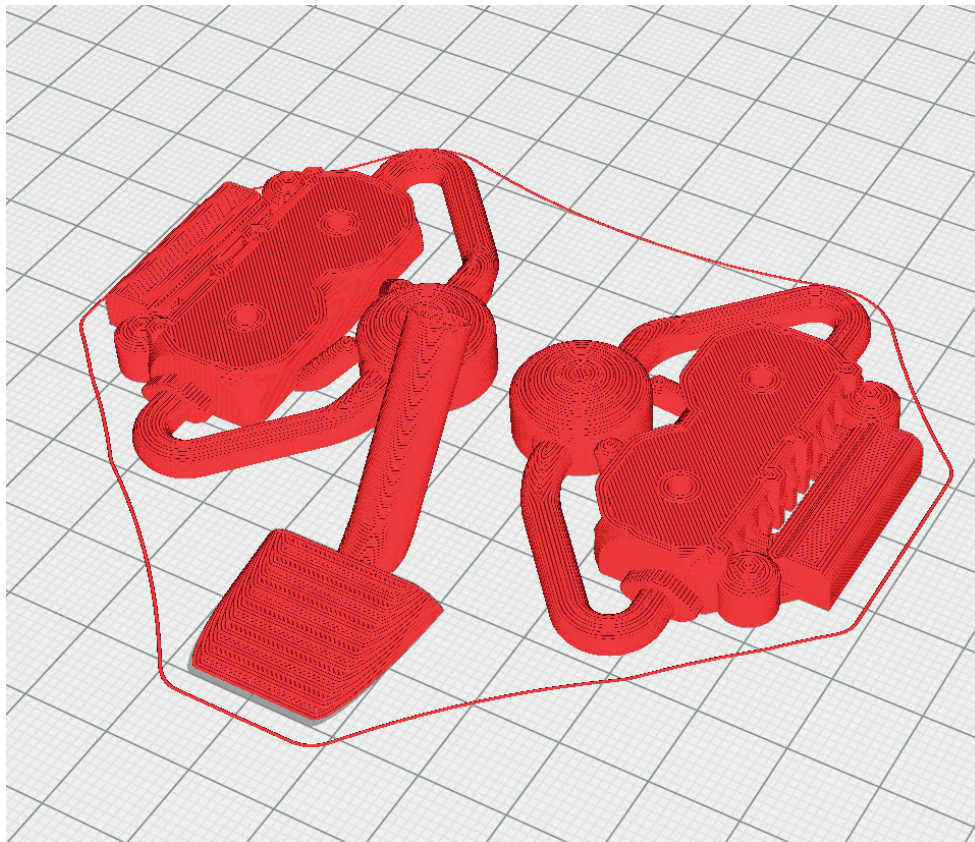
INFO

STL:
Engine 1_profile2_bb.stl

Material: PLA silver or black
Weight: ~ 11 g

ADDITIONAL SETTINGS

- Top Layers 4



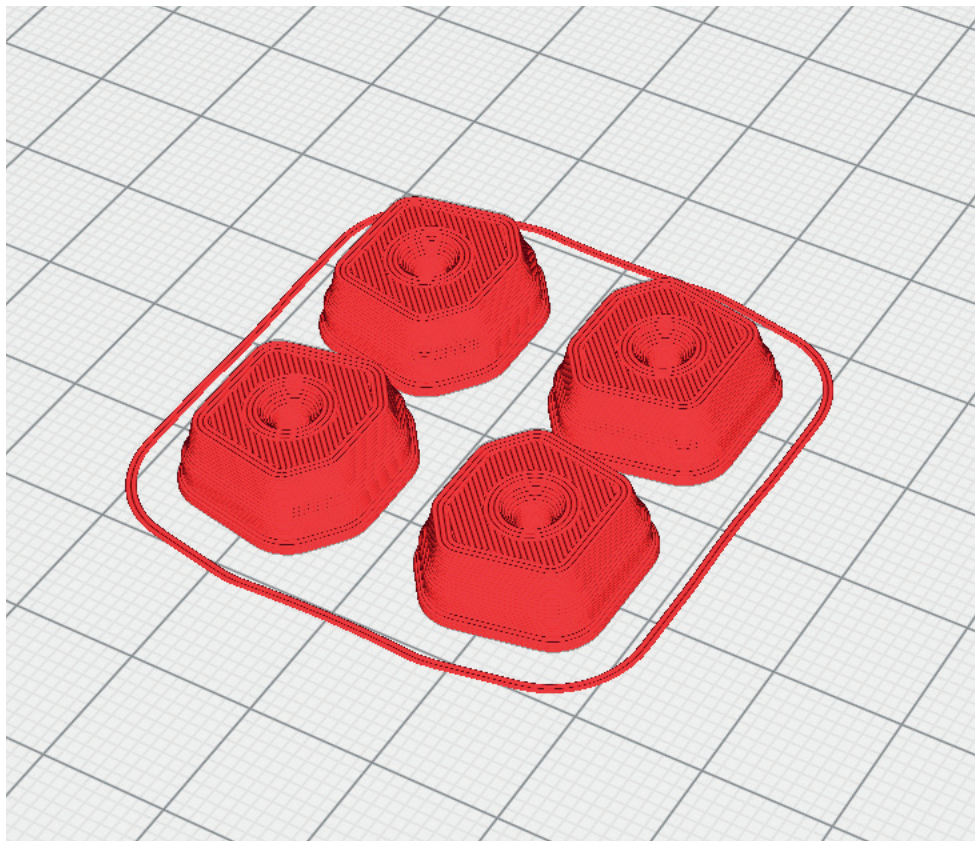
INFO

STL:
Engine 2_profile2_bb.stl

Material: PLA red
Weight: ~ 3 g

ADDITIONAL SETTINGS

- Top Layers 4



PROFILE P2_HOLLOWBODY

The following parts must be sliced with the profile PROFILE P2_HOLLOWBODY.
Recommended additional settings are listed in the screenshots.

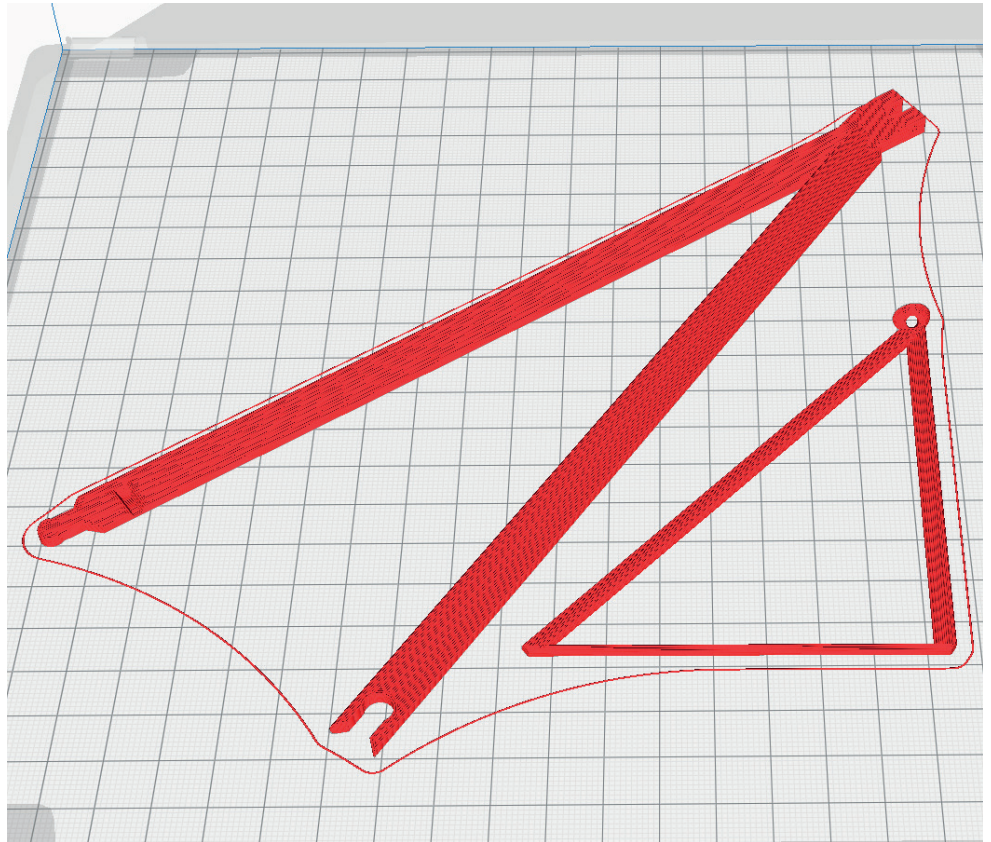
INFO

STL:
Strut 1-left_profile2_bb.stl
Strut 1-right_profile2_bb.stl

Material: PLA
Weight: ~ 11 g

ADDITIONAL SETTINGS

- Wall Line Count 5



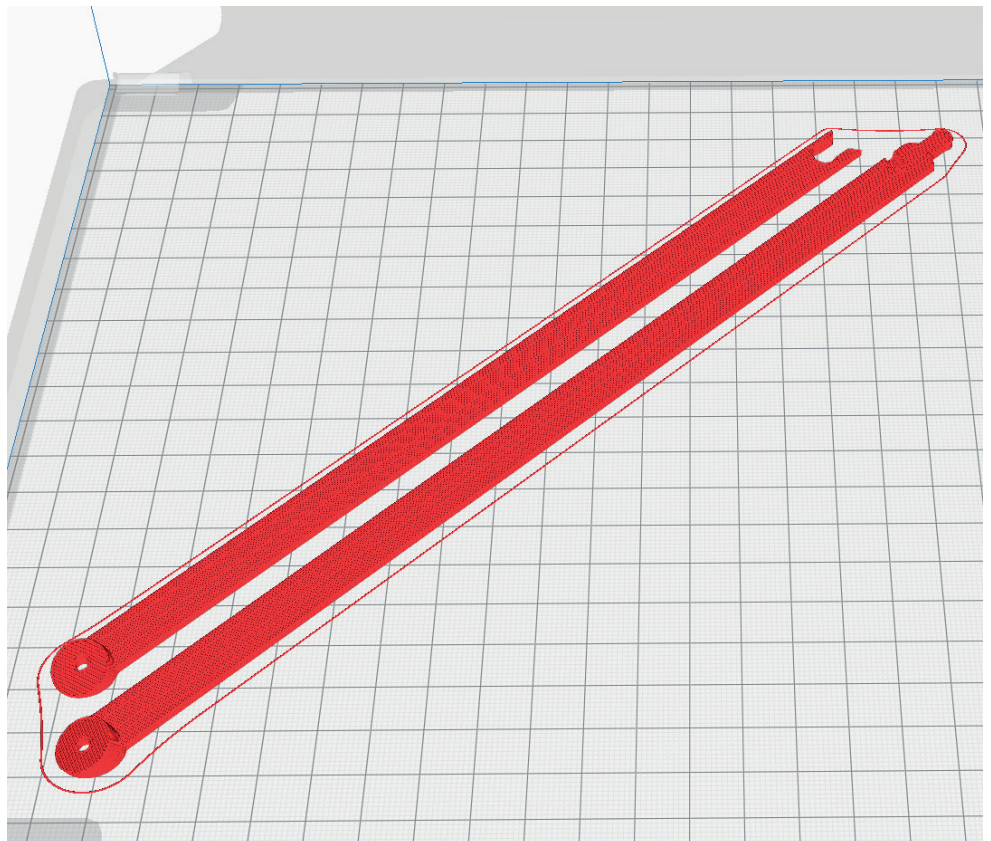
INFO

STL:
Strut 2-left_profile2_bb.stl
Strut 2-right_profile2_bb.stl

Material: PLA
Weight: ~ 11 g

ADDITIONAL SETTINGS

- Wall Line Count 5



PROFILE P2_HOLLOWBODY

The following parts must be sliced with the profile PROFILE P2_HOLLOWBODY.
Recommended additional settings are listed in the screenshots.

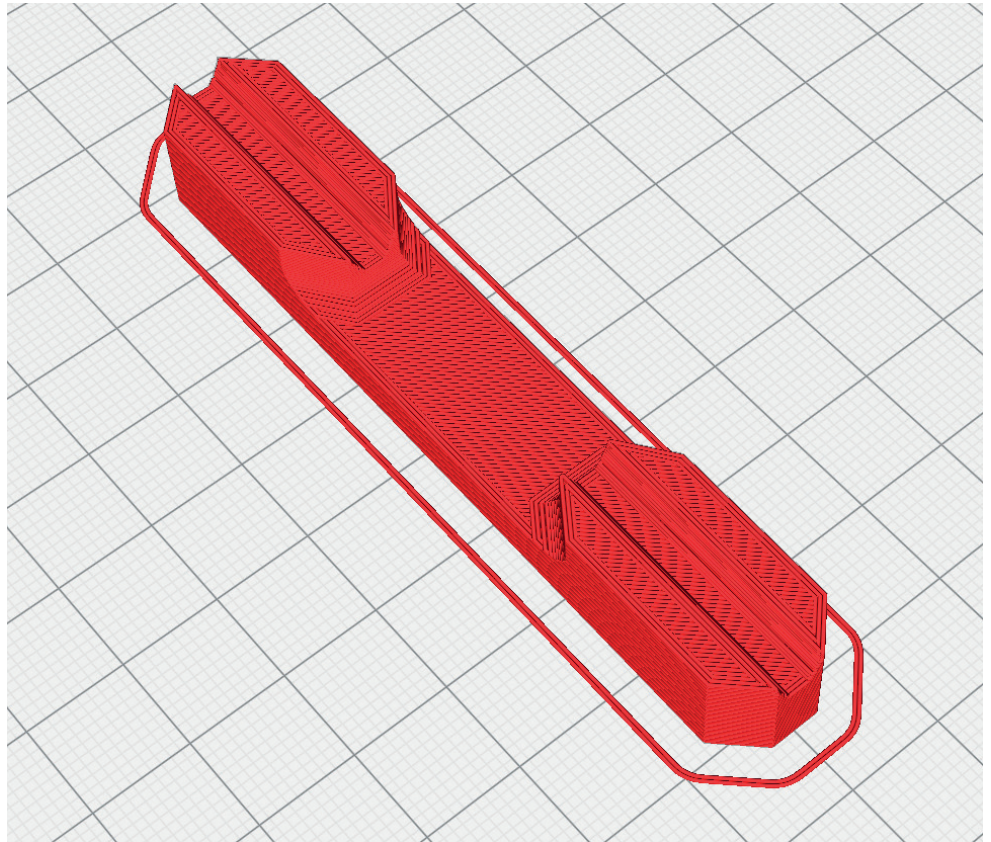
INFO

STL:
Grid tool_profile2_bb.stl

Material: PLA
Weight: ~ 4 g

ADDITIONAL SETTINGS

Non necessary



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

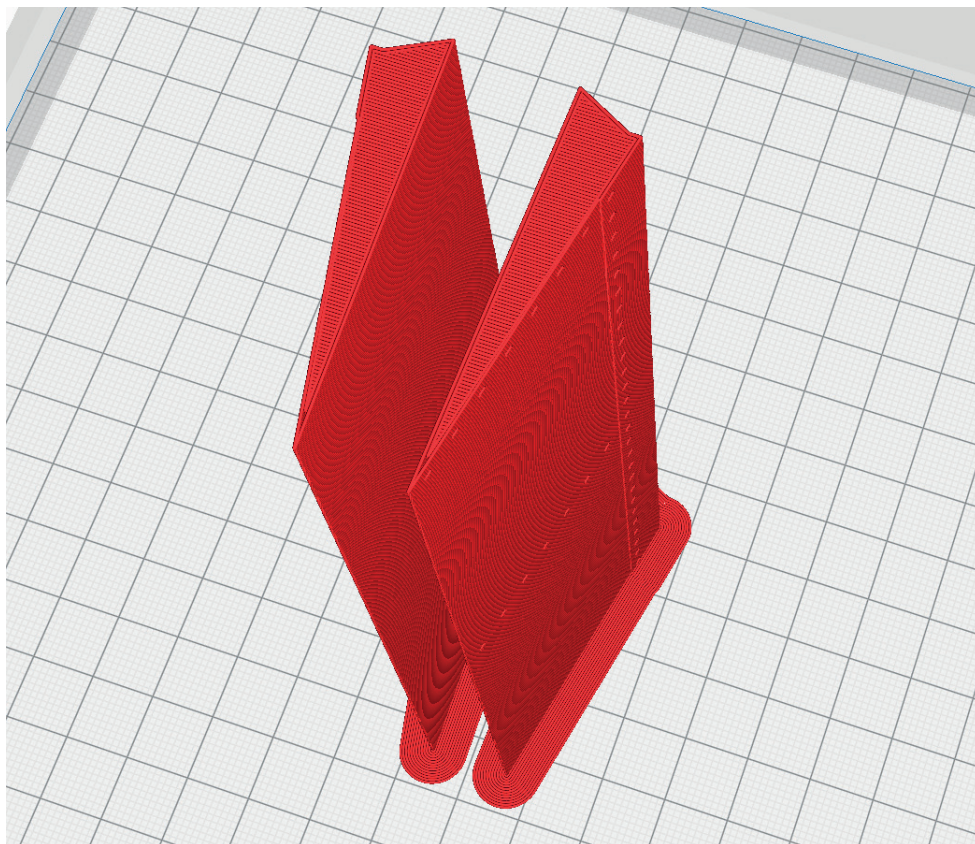
INFO

STL:
Flap-left_profile3_bb.stl
Flap-right_profile3_bb.stl

Material: PLA
Weight: ~ 19 g

ADDITIONAL SETTINGS

- Brim
- Slightly less nozzle temperatures



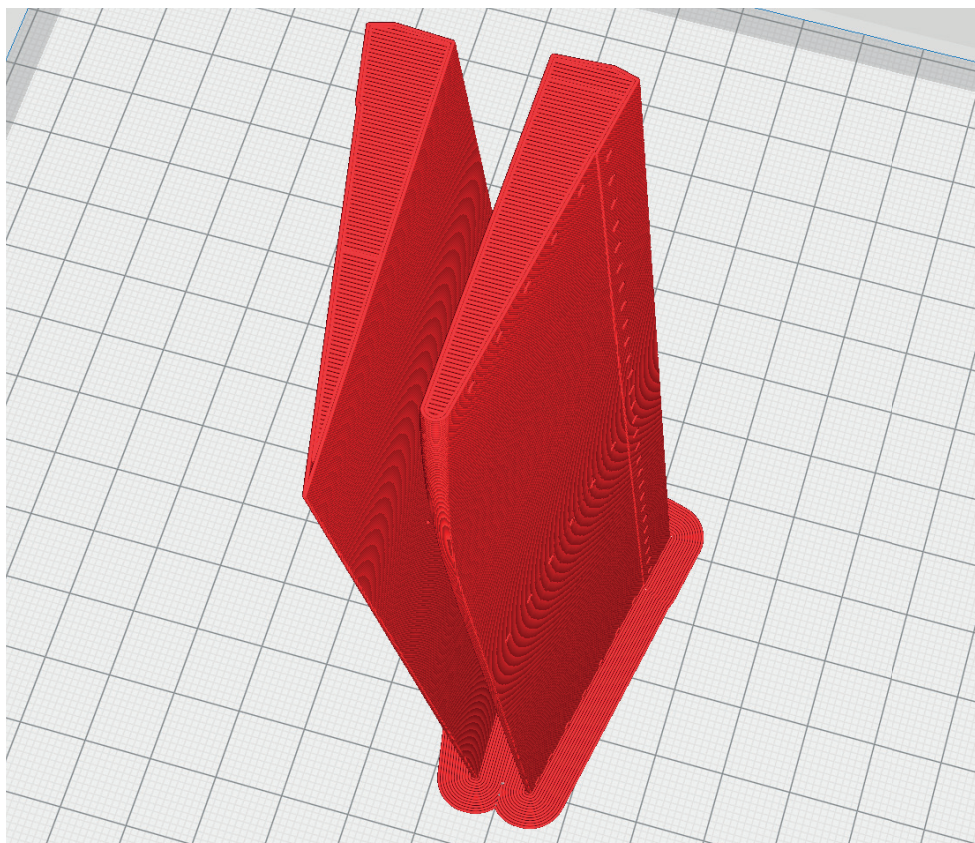
INFO

STL:
Aileron-left_profile3_bb.stl
Aileron-right_profile3_bb.stl

Material: PLA
Weight: ~ 18 g

ADDITIONAL SETTINGS

- Brim
- Slightly less nozzle temperatures



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

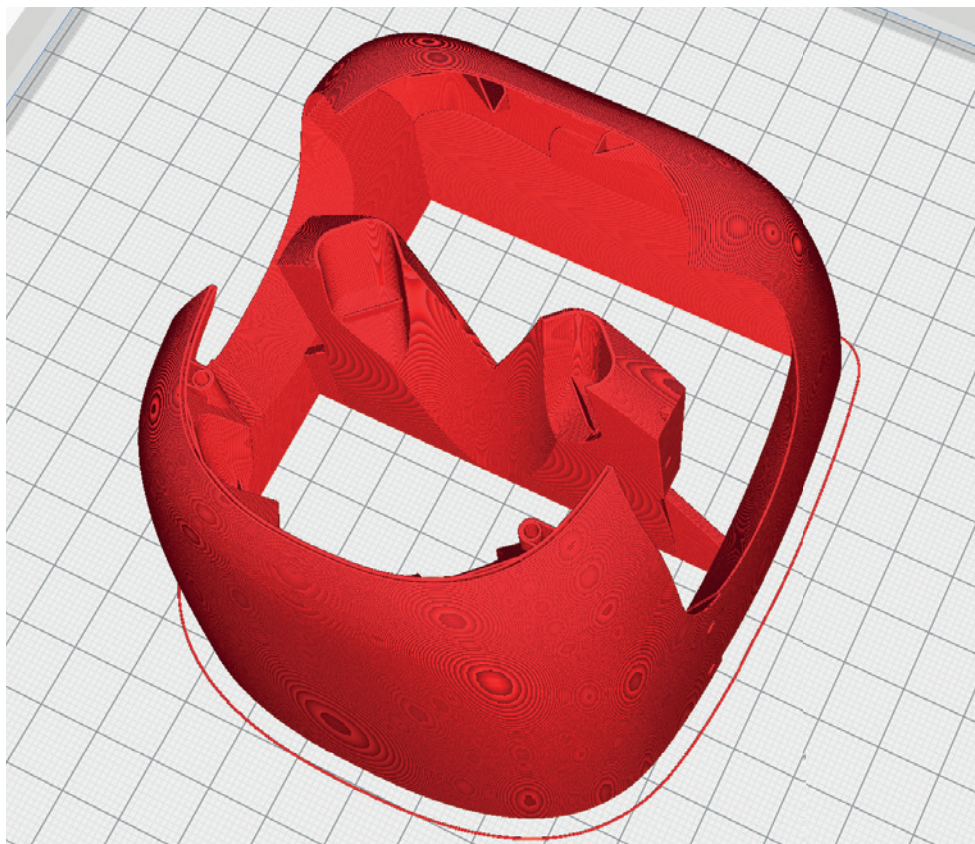
INFO

STL:
Cowling 1_profile3_bb.stl

Material: PLA
Weight: ~ 32 g

ADDITIONAL SETTINGS

Non necessary



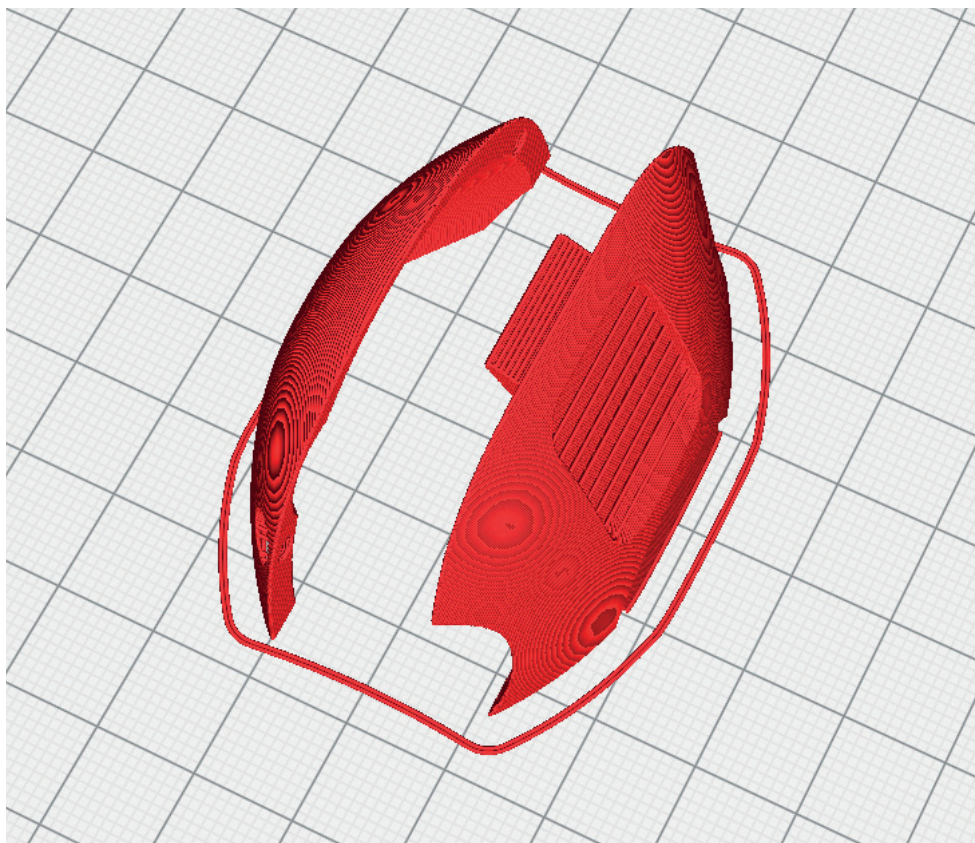
INFO

STL:
Cowling 2_profile3_bb.stl

Material: PLA
Weight: ~ 4 g

ADDITIONAL SETTINGS

- Fan 100 %
- Slightly less nozzle temperatures



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

INFO

STL:

Elevator 1-left_profile3_bb.stl
Elevator 1-right_profile3_bb.stl

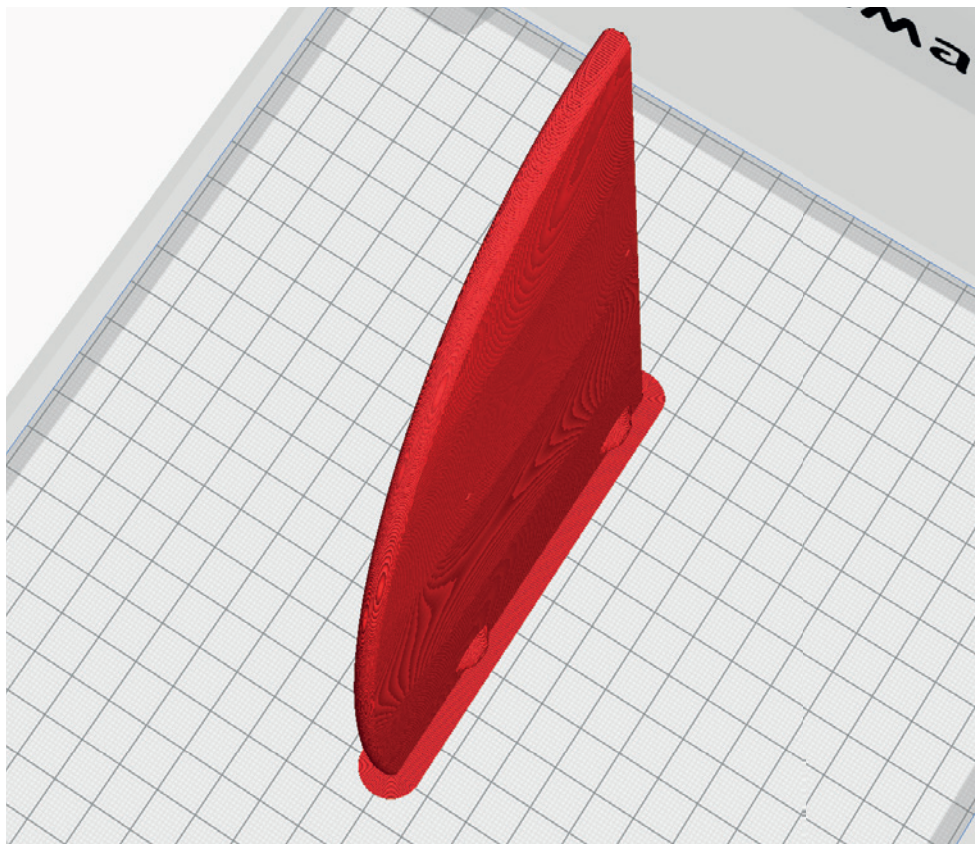
Material: PLA

Weight: ~ 23 g

ADDITIONAL SETTINGS

- Brim

Finally, at the tip, the Nozzle temperature should be reduced and the fan to 100%!



INFO

STL:

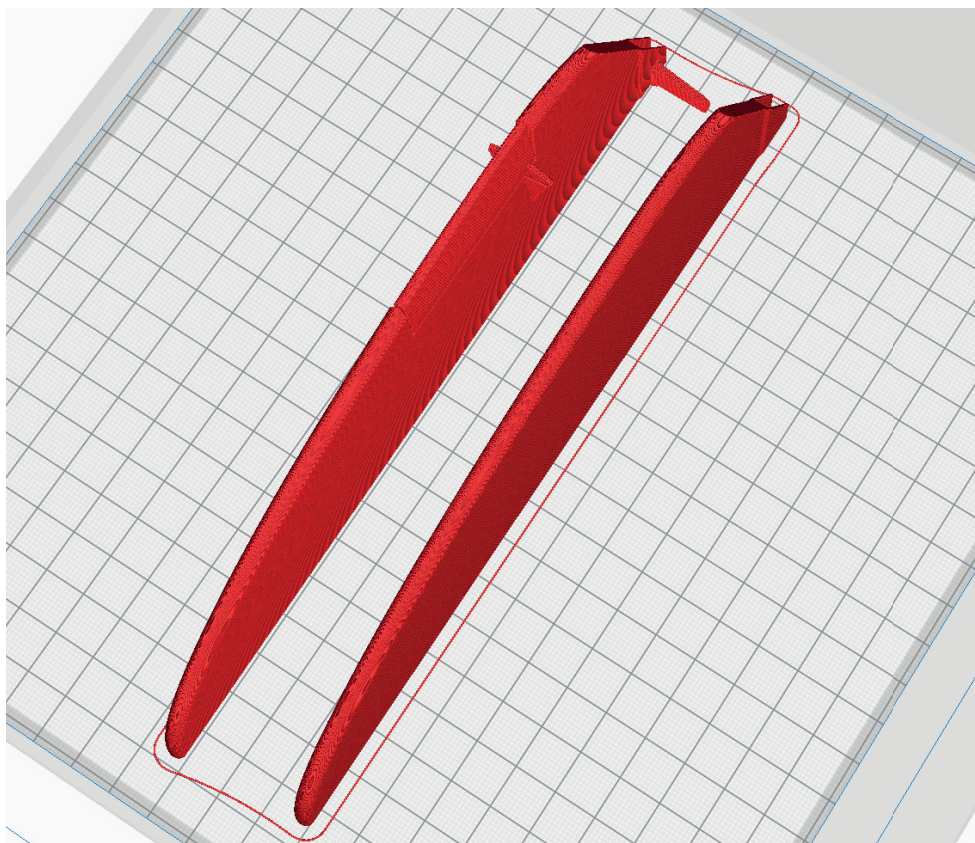
Elevator 2_profile3_bb.stl

Material: PLA

Weight: ~ 26 g

ADDITIONAL SETTINGS

Non necessary



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

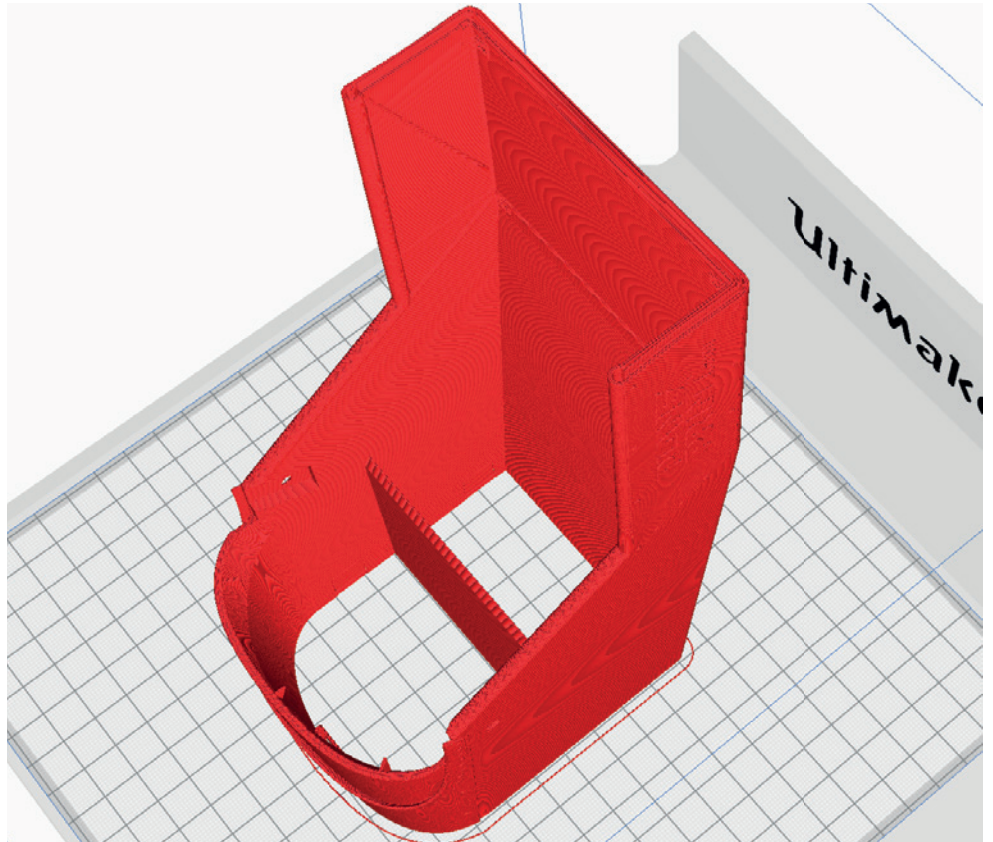
INFO

STL:
Fuselage 1_profile3_bb.stl

Material: PLA
Weight: ~ 65 g

ADDITIONAL SETTINGS

Non necessary



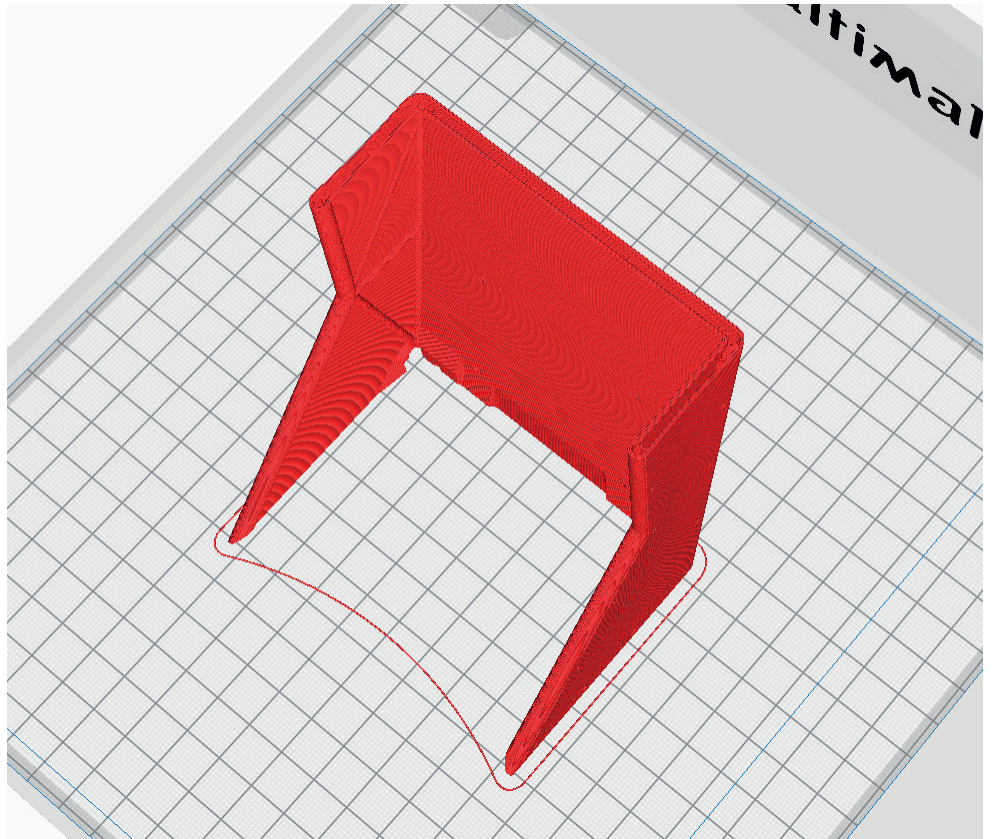
INFO

STL:
Fuselage 2_profile3_bb.stl

Material: PLA
Weight: ~ 24 g

ADDITIONAL SETTINGS

Non necessary



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

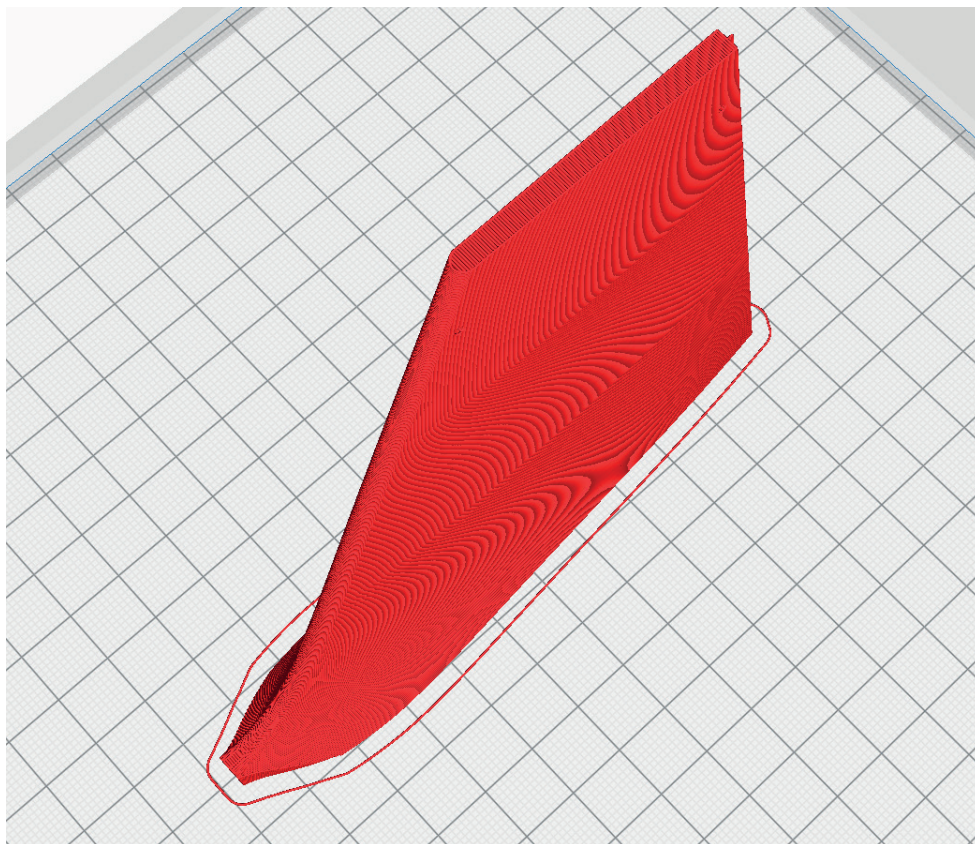
INFO

STL:
Rudder 1_profile3_bb.stl

Material: PLA
Weight: ~ 12 g

ADDITIONAL SETTINGS

Non necessary



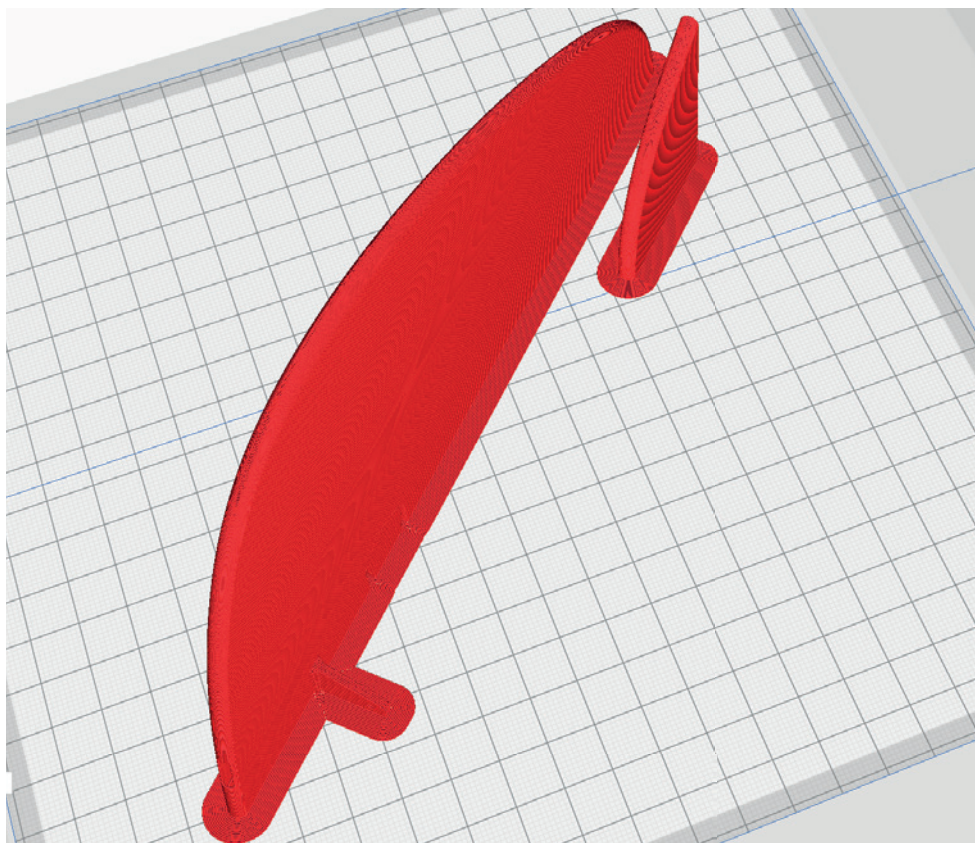
INFO

STL:
Rudder 2_profile3_bb.stl

Material: PLA
Weight: ~ 20 g

ADDITIONAL SETTINGS

- Z Seam Position: Back Left



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

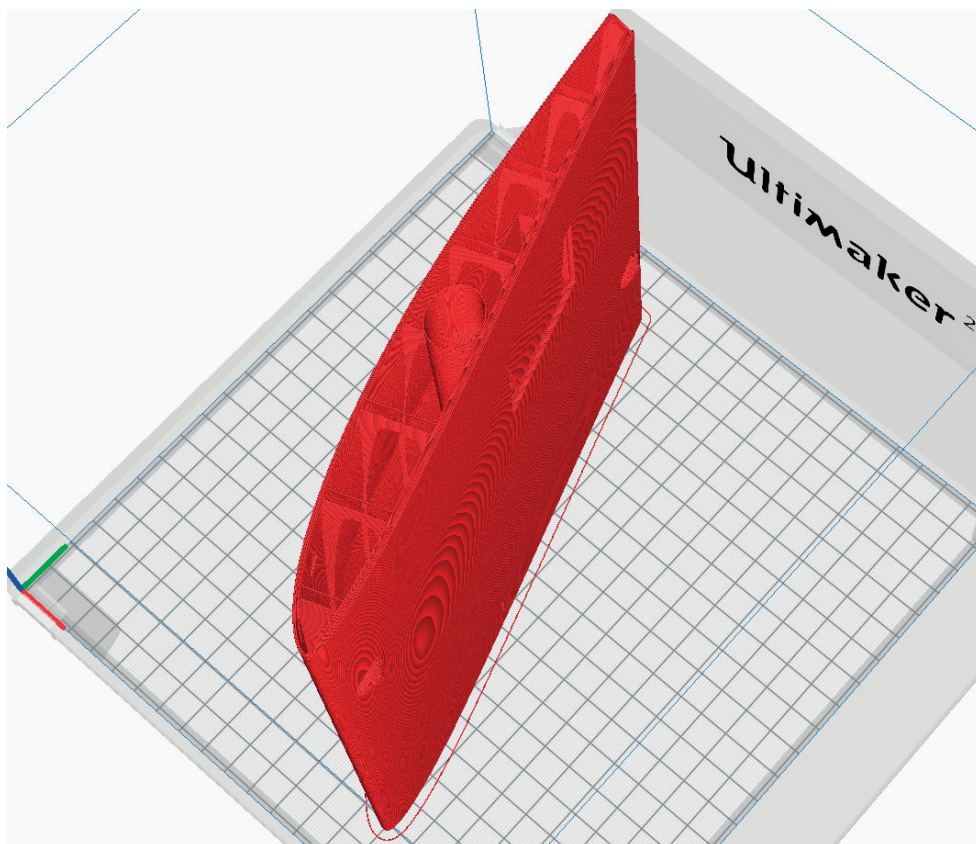
INFO

STL:
Wing 1-left_profile3_bb.stl
Wing 1-right_profile3_bb.stl

Material: PLA
Weight: ~ 63 g

ADDITIONAL SETTINGS

Non necessary



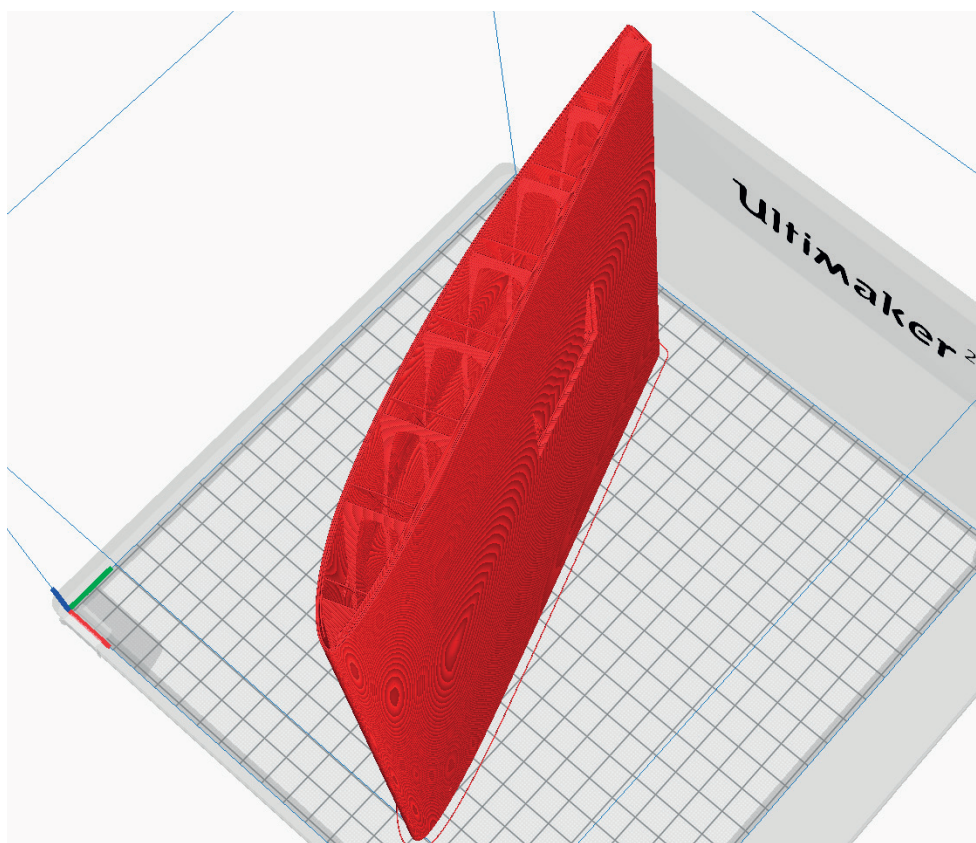
INFO

STL:
Wing 2-left_profile3_bb.stl
Wing 2-right_profile3_bb.stl

Material: PLA
Weight: ~ 64 g

ADDITIONAL SETTINGS

Non necessary



PROFILE P3_SURFACE

The following parts must be sliced with the profile PROFILE P3_SURFACE (1 Wall Print). Recommended additional settings are listed in the screenshots.

PLEASE NOTE

In profile P3_SURFACE, there should not be more than one STL on the buildplate at the same time, otherwise slicing errors can occur!

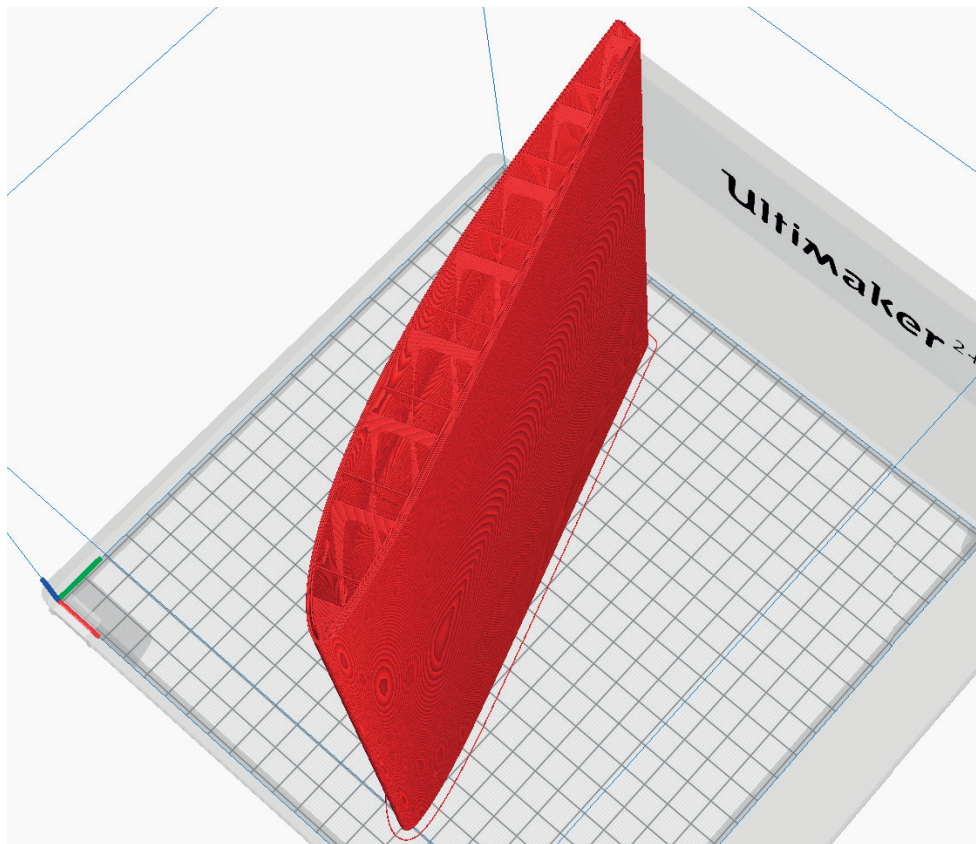
INFO

STL:
Wing 3-left_profile3_bb.stl
Wing 3-right_profile3_bb.stl

Material: PLA
Weight: ~ 60 g

ADDITIONAL SETTINGS

Non necessary



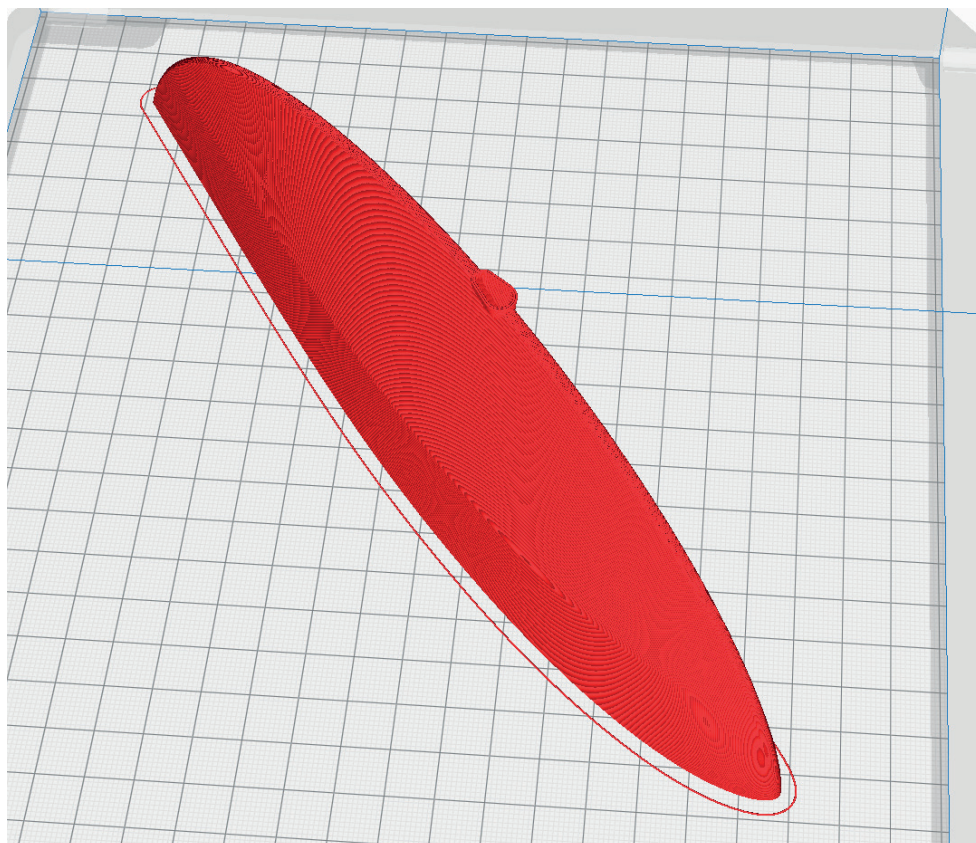
INFO

STL:
Wingtip-left_profile3_bb.stl
Wingtip-right_profile3_bb.stl

Material: PLA
Weight: ~ 21 g

ADDITIONAL SETTINGS

Non necessary



PROFILE P4_FLEX

The following parts must be sliced with the profile PROFILE P4_FLEX (flexible materials). Recommended additional settings are listed in the screenshots.

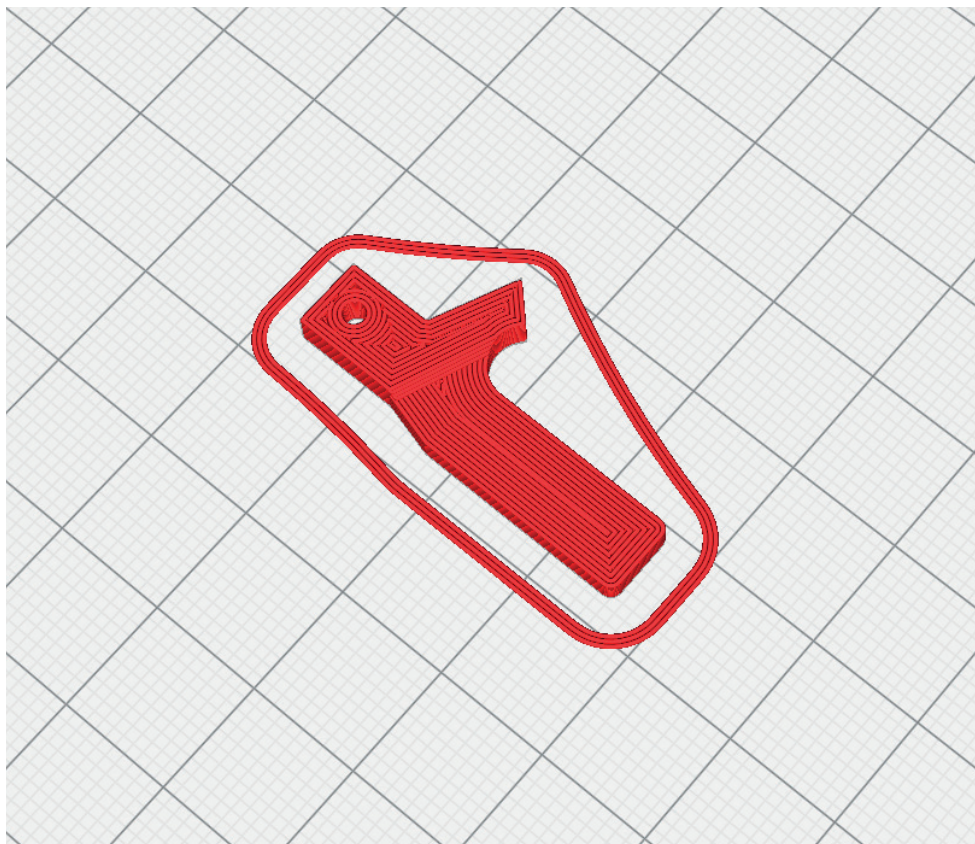
INFO

STL:
Gear back 2_profile4_bb.stl

Material: TPU soft
Weight: ~ 1 g

ADDITIONAL SETTINGS

- Wall Line Count 8
- Infill Density 100 %



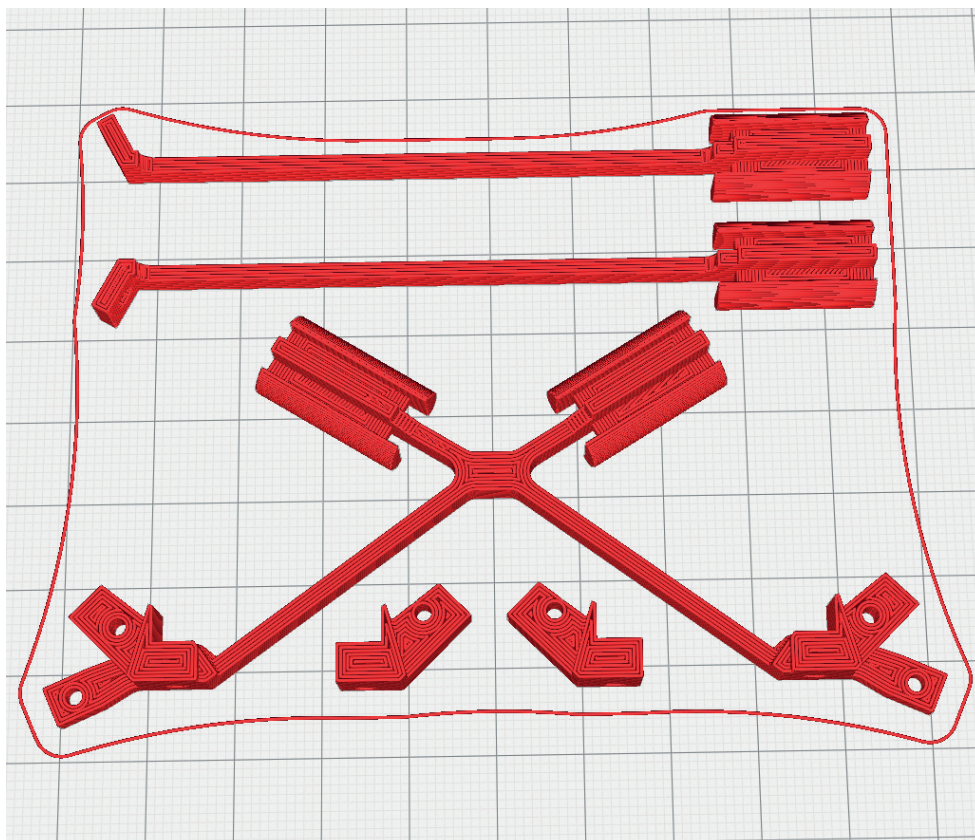
INFO

STL:
Gear flex_profile4_bb.stl

Material: TPU soft
Weight: ~ 11 g

ADDITIONAL SETTINGS

- Wall Line Count 8
- Infill Density 100 %



PROFILE P4_FLEX

The following parts must be sliced with the profile PROFILE P4_FLEX (flexible materials).
Recommended additional settings are listed in the screenshots.

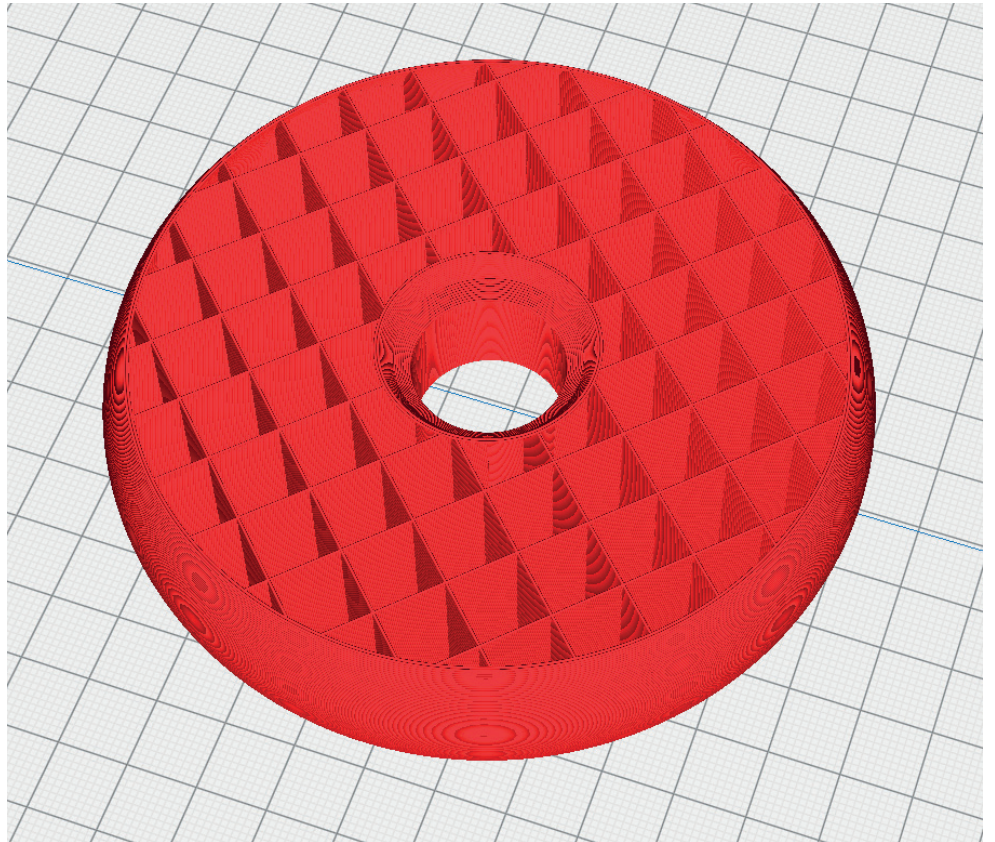
INFO

STL:
Tire_profile4_bb.stl

Material: TPU soft
Weight: ~ 47 g

ADDITIONAL SETTINGS

- Wall Line Count 2
- Top Layers 3
- Bottom Layers 2
- Infill Density 8 %



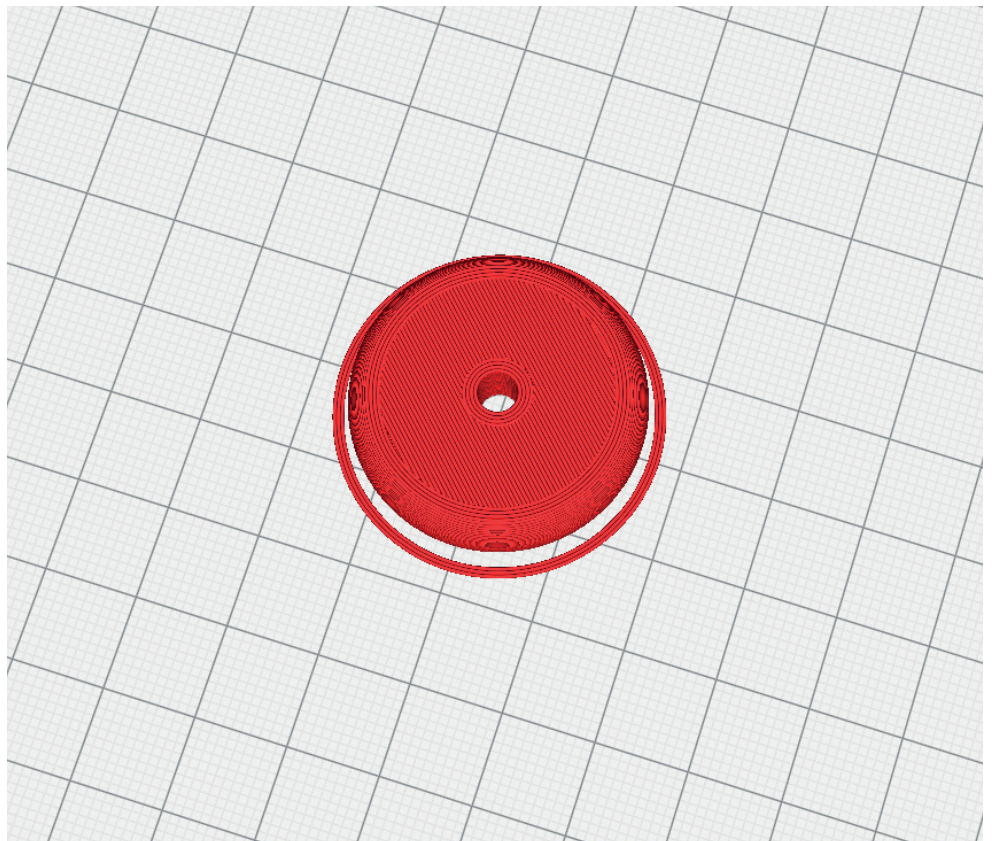
INFO

STL:
Tire back_profile4_bb.stl

Material: TPU soft
Weight: ~ 3 g

ADDITIONAL SETTINGS

- Wall Line Count 3
- Top Layers 5
- Bottom Layers 3
- Infill Density 15 %



PROFILE P4_FLEX

The following parts must be sliced with the profile PROFILE P4_FLEX (flexible materials). Recommended additional settings are listed in the screenshots.

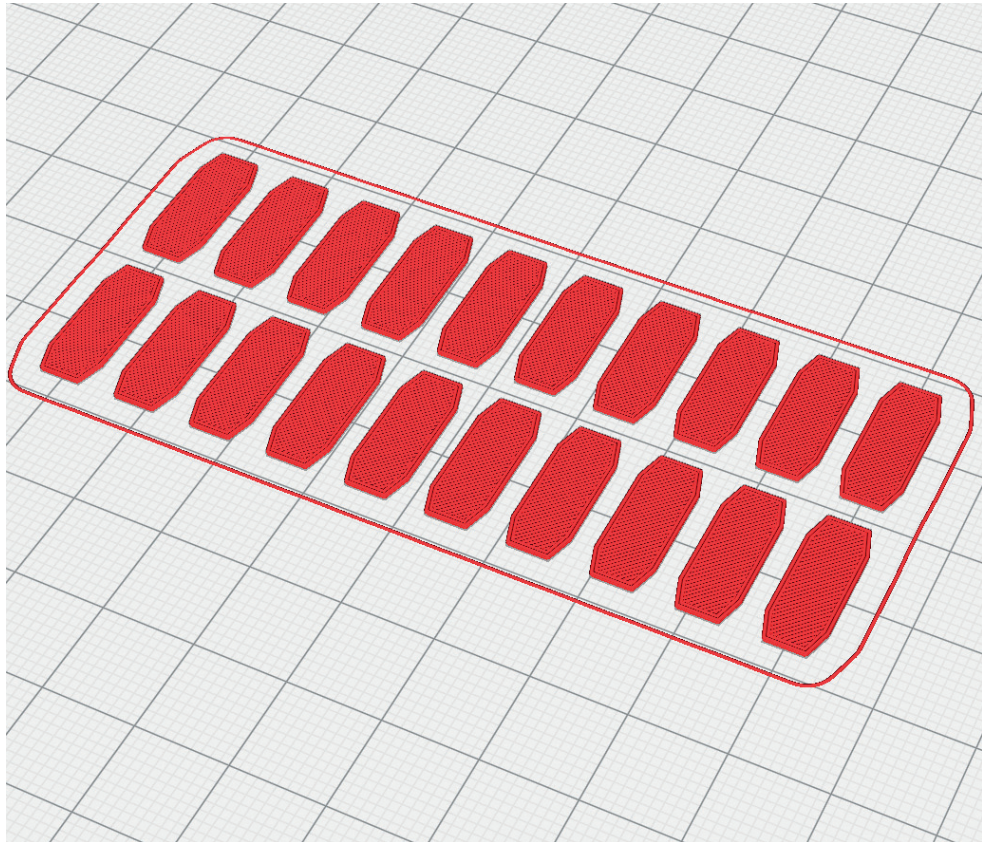
INFO

STL:
Hinges_profile4_bb.stl

Material: TPU soft
Weight: ~ 2 g

ADDITIONAL SETTINGS

Non necessary



REQUIRED ACCESSORIES

MATERIALS

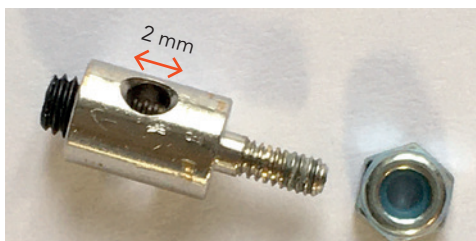
- Tapping screws Ø 2mm see note below



- Metal screw M3*18mm 2 Pieces
- Metal screws M3*43mm 2 Pieces
- Stop nut M3 2 Pieces
- CA super glue, liquid and liquid medium
- Activator
- Hair gums
- Carbon tube Ø 6 mm 1 meter



- Carbon rod Ø 1,5 mm 2 by 1 meter
- Carbon rod Ø 3 mm 1 meter
- servo extension cable
- double-sided adhesive tape (transparent)
- steel wire Ø 1mm
- rod connection 6 Pieces



TOOLS

- Cutter knife
- Philips screwdriver
- Needle nose pliers
- Drill Ø 1,5 mm and 3 mm

RC COMPONENTS

Engine (Ø 35mm max.): We use an E-flite BL 10 Brushless Outrunner 1300Kv with a 12x4" prop

But this is only an indication, the model can be motorized stronger or weaker, depending on your preference. We recommend a prop with low pitch.

BEC-Controller:

Must match the motor, at least 40 Amp. 12x4"

Prop:

Battery pack:

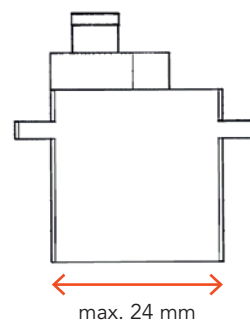
3S LiPo-Akku ca. 2200 - 2700 MAH

Servos 6 pieces:

EMAX ES08 (A or D)

EMAX ES3351

HITEC HS-55



NOTE

We recommend the purchase of a small range of screws, which can be used for all future Planeprint models.

Simply search the Internet for: [M2 Flat Head Tapping Screw Assortment ...](#)



CONSTRUCTION MANUAL



Gluing the parts

To glue the fuselage and wing parts well, use **medium**-liquid CA adhesive.

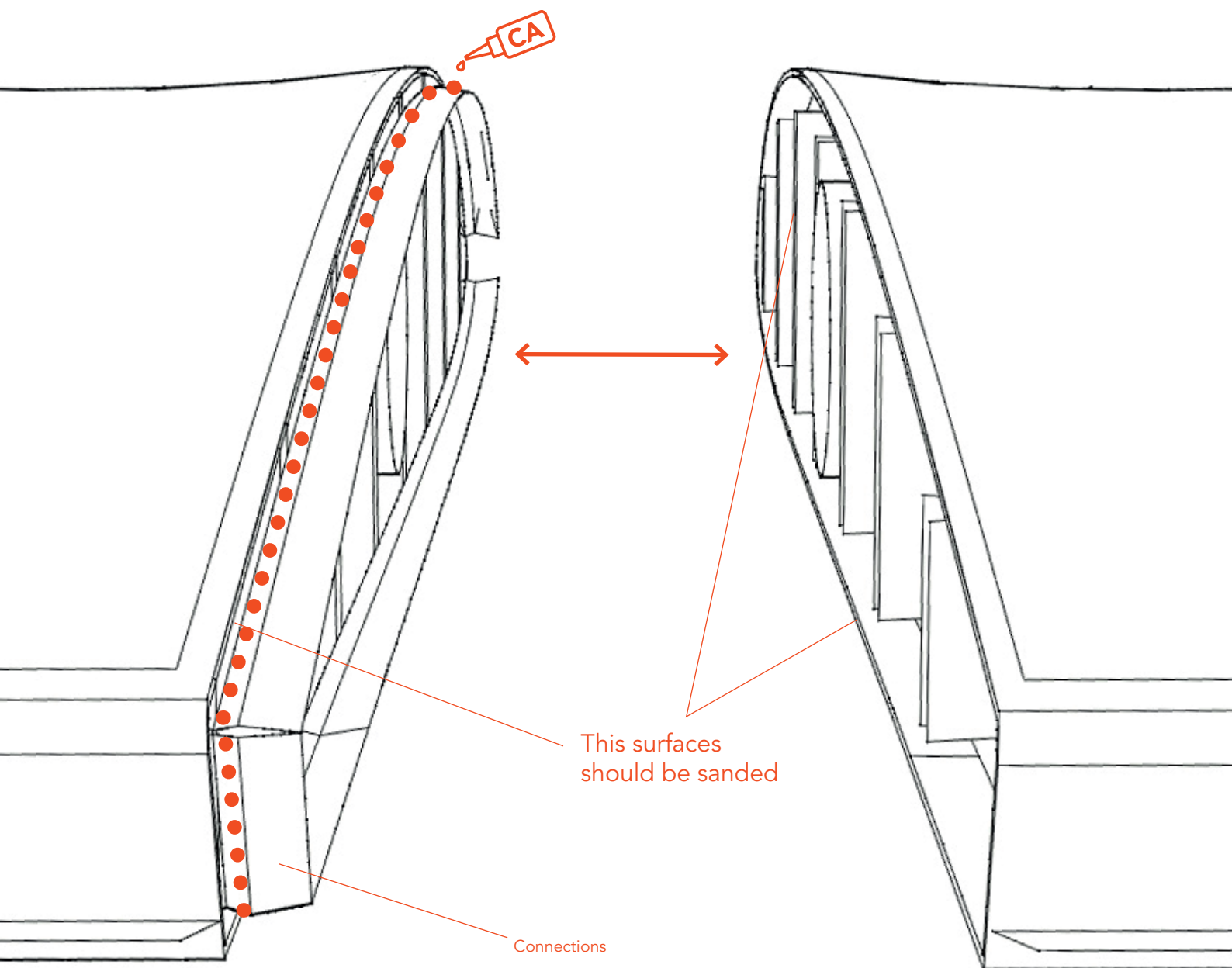
First check whether the parts go well together. Then apply a lot of CA glue to the part with the connections and all surfaces that will touch later (except the bowden tubes). Put the parts together and align the parts perfectly. If glue comes out, wipe with a cloth. Then spray activator spray on the glue points.

For a strong connection, the adhesive surfaces should be sanded.

Please only use **fresh** CA glue and activator spray for curing!

The adhesive connections must hold perfectly!

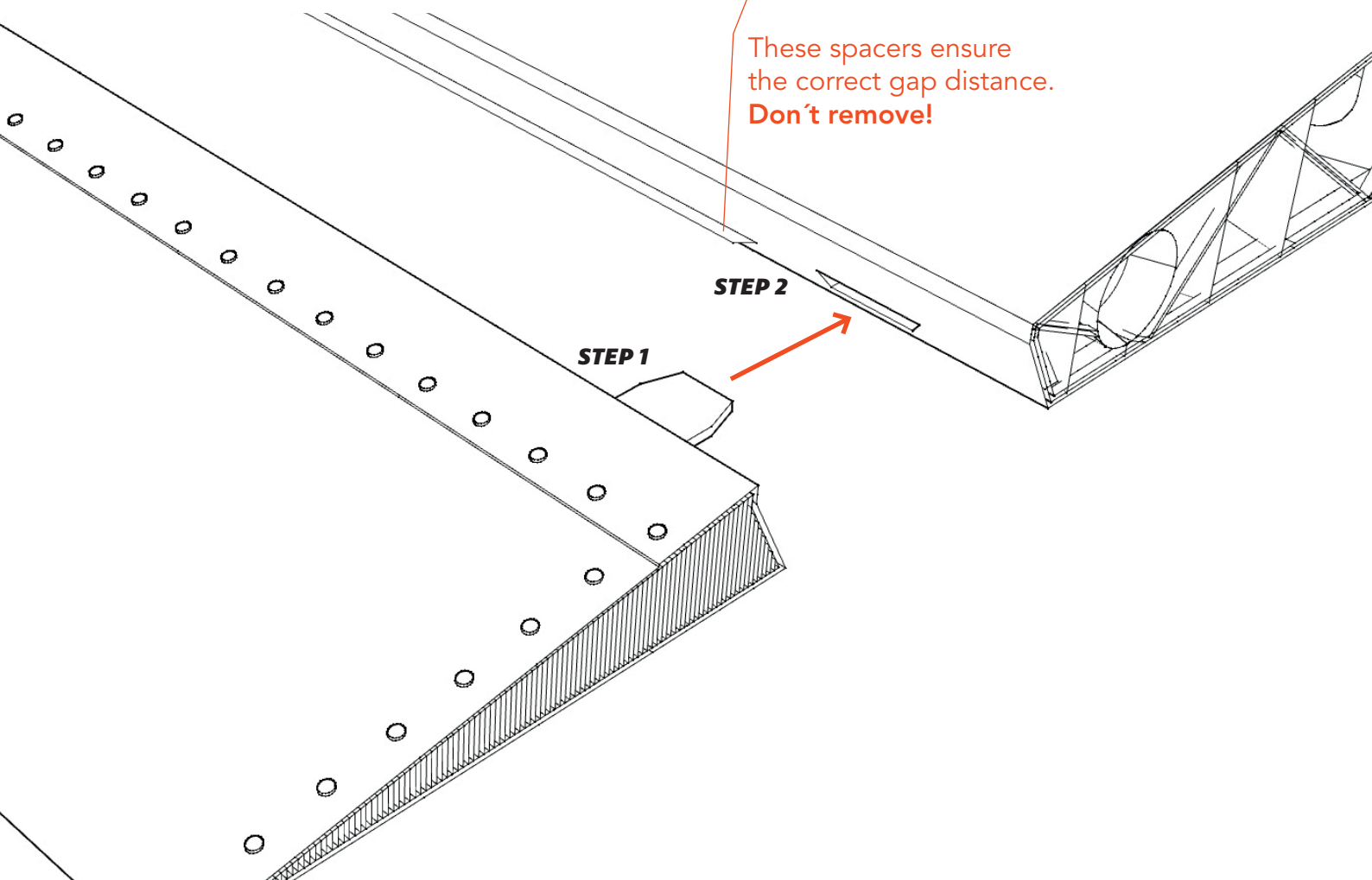
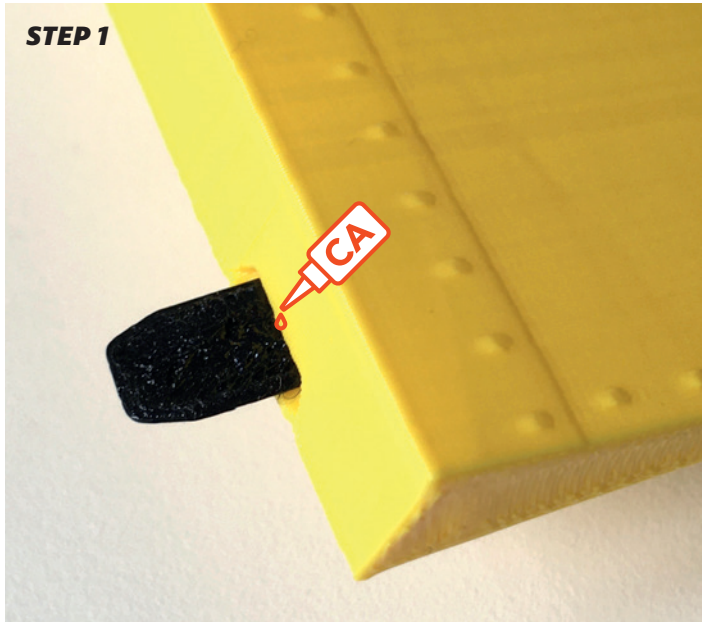
IMPORTANT!



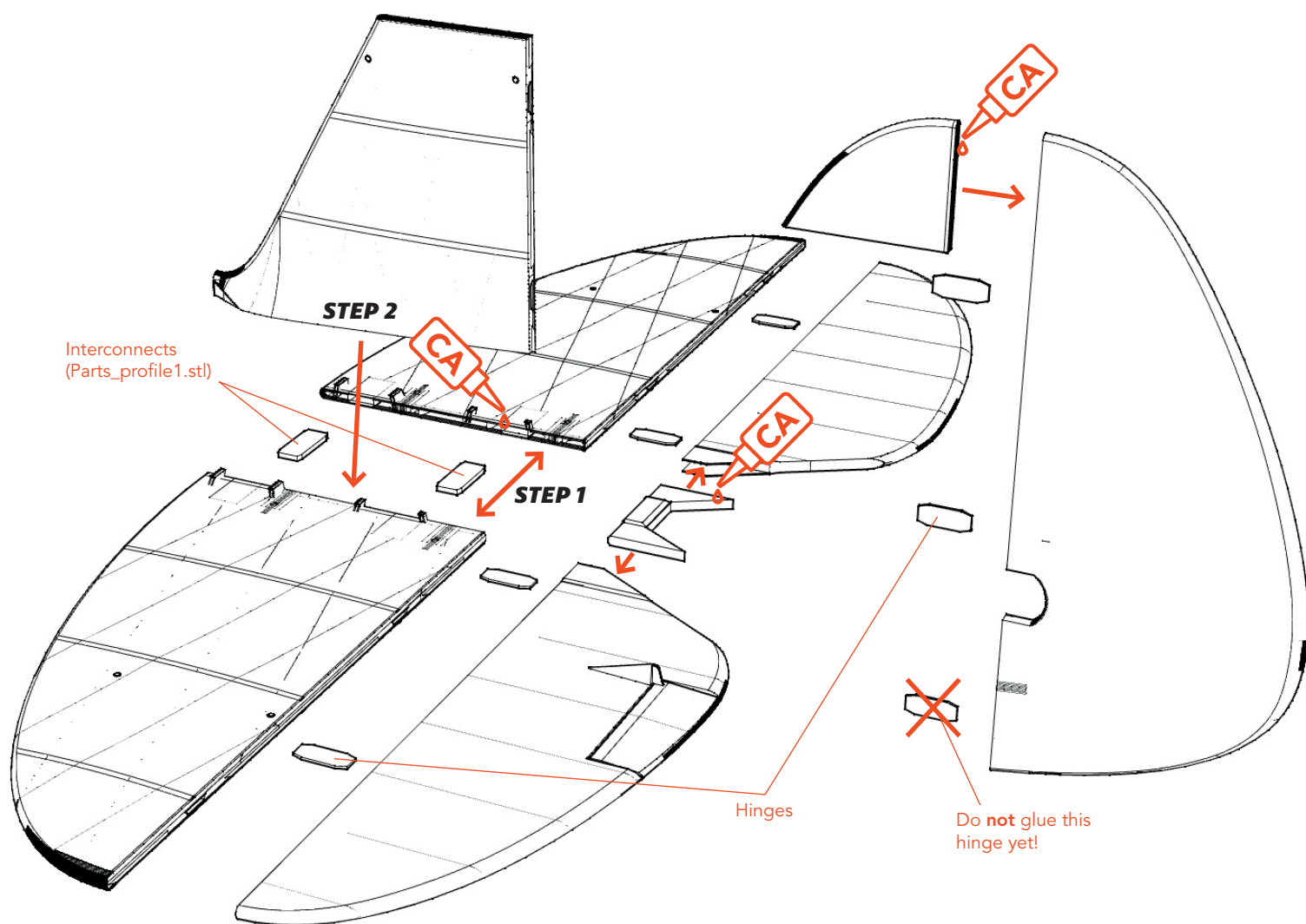
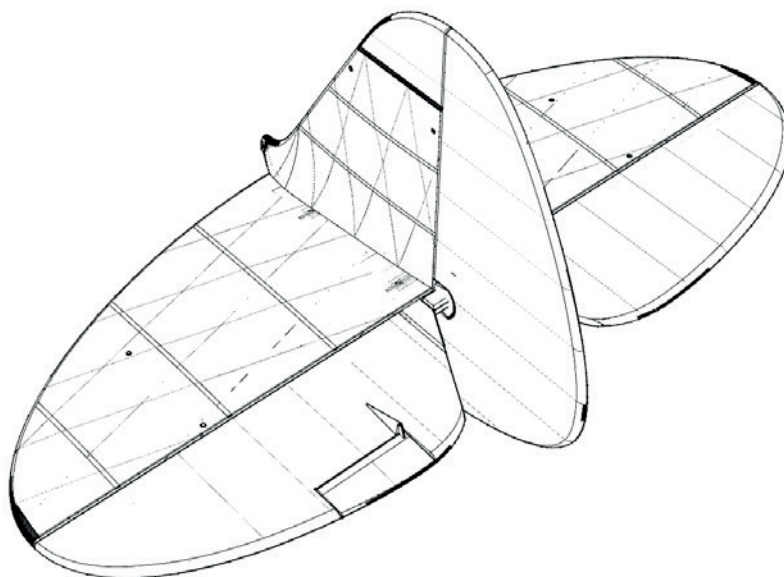
Install the hinges (applies to wings, rudder and elevator)

First insert the hinge into the movable flap and add a drop of liquid CA adhesive into the gap. Wait for the glue to drain completely, then spray the activator on it.

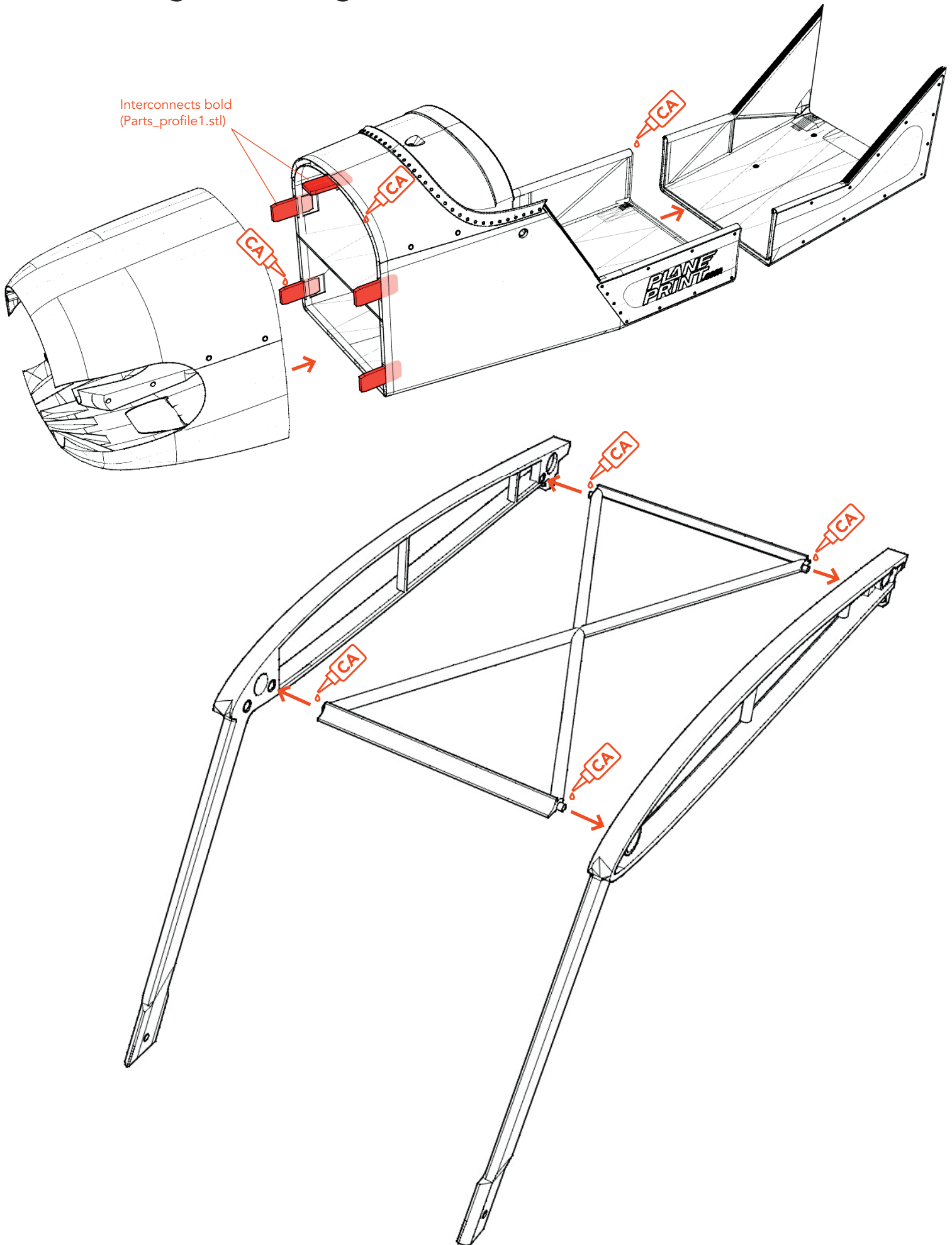
Then put the flap in the wing **until the flap touches the spacers** and put a drop of CA glue on the hinge. Wait again for the glue to run in, and then spray the activator on it.



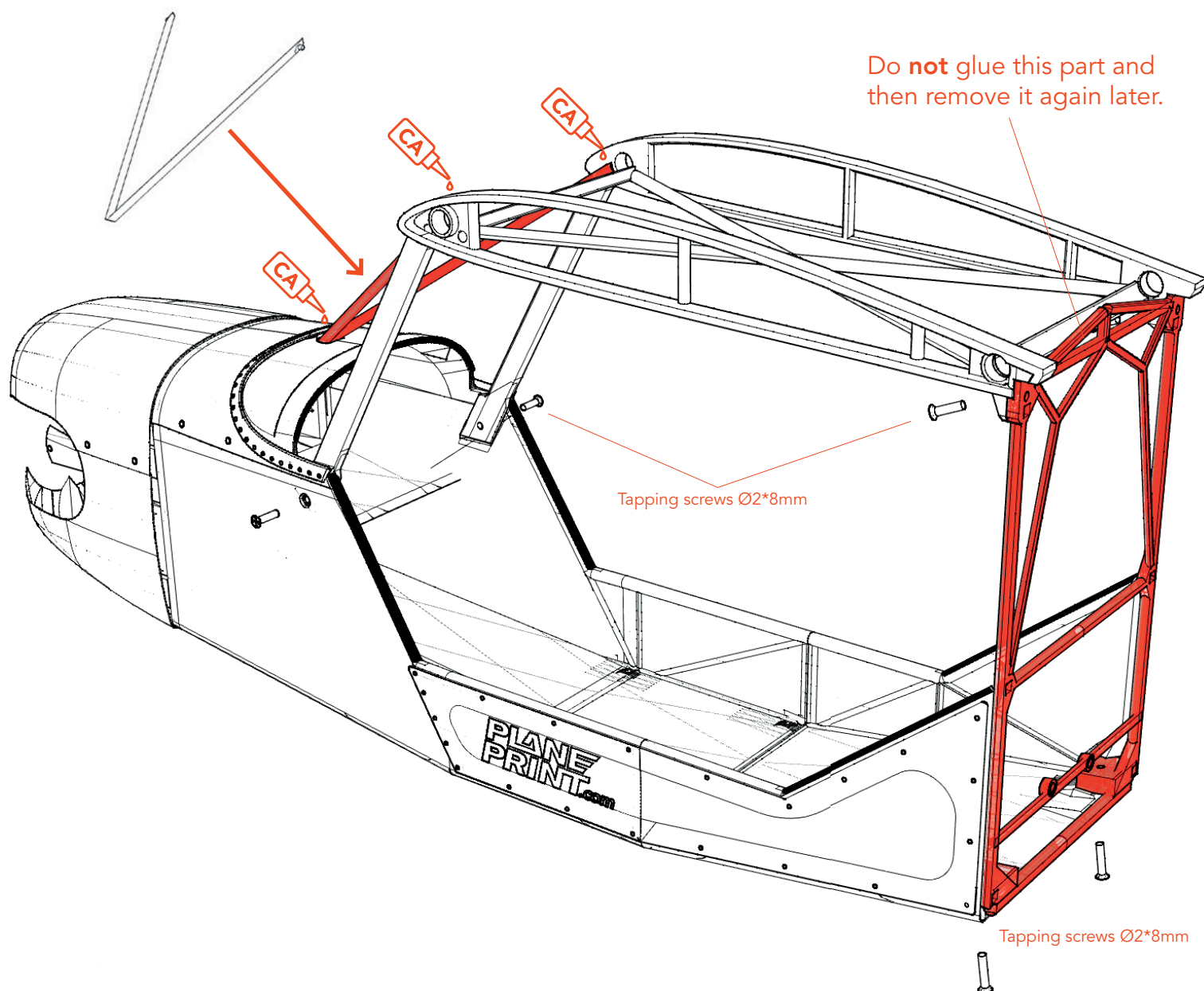
Rudder and Elevator



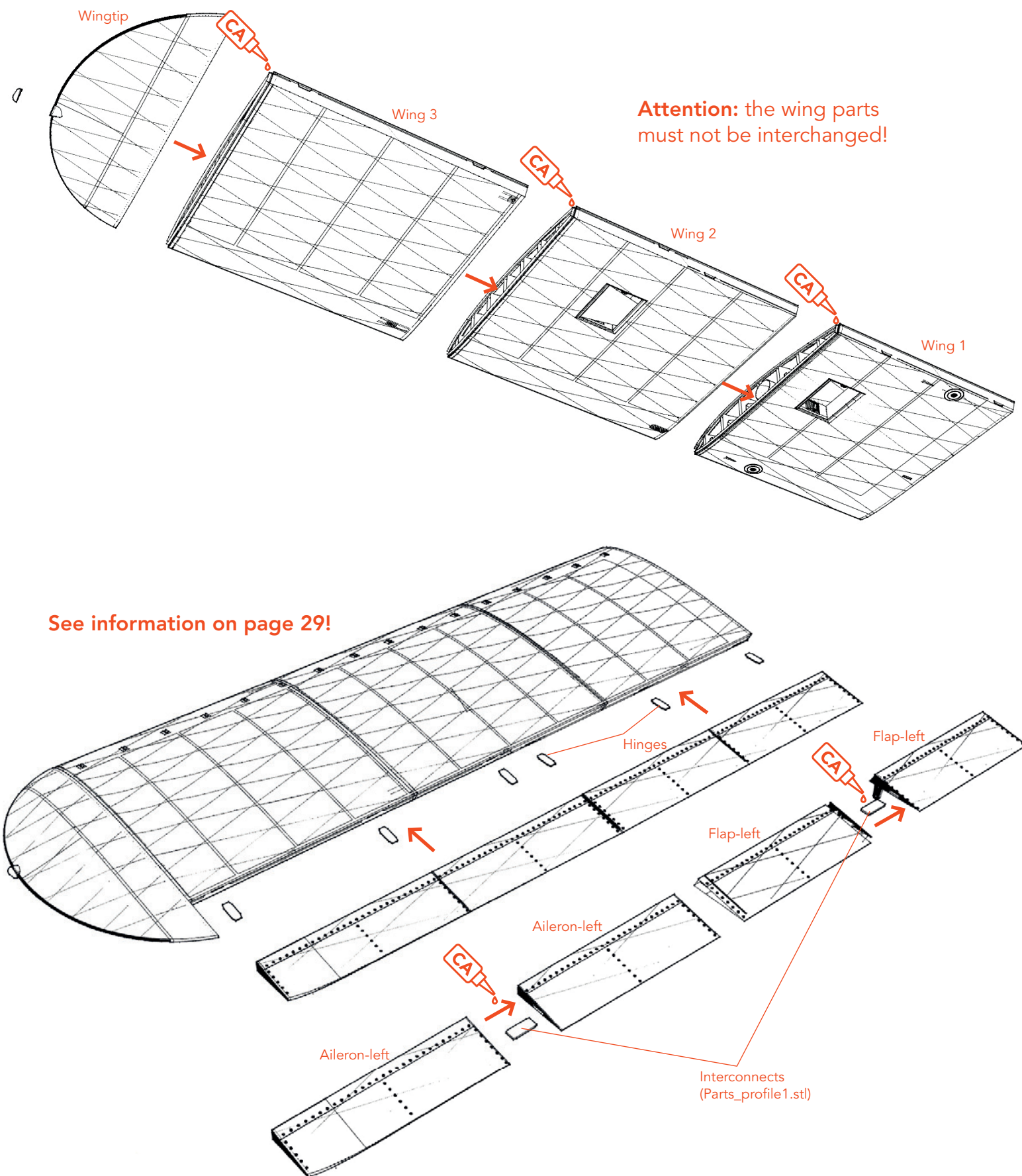
Assembling the fuselage



Assembling the fuselage

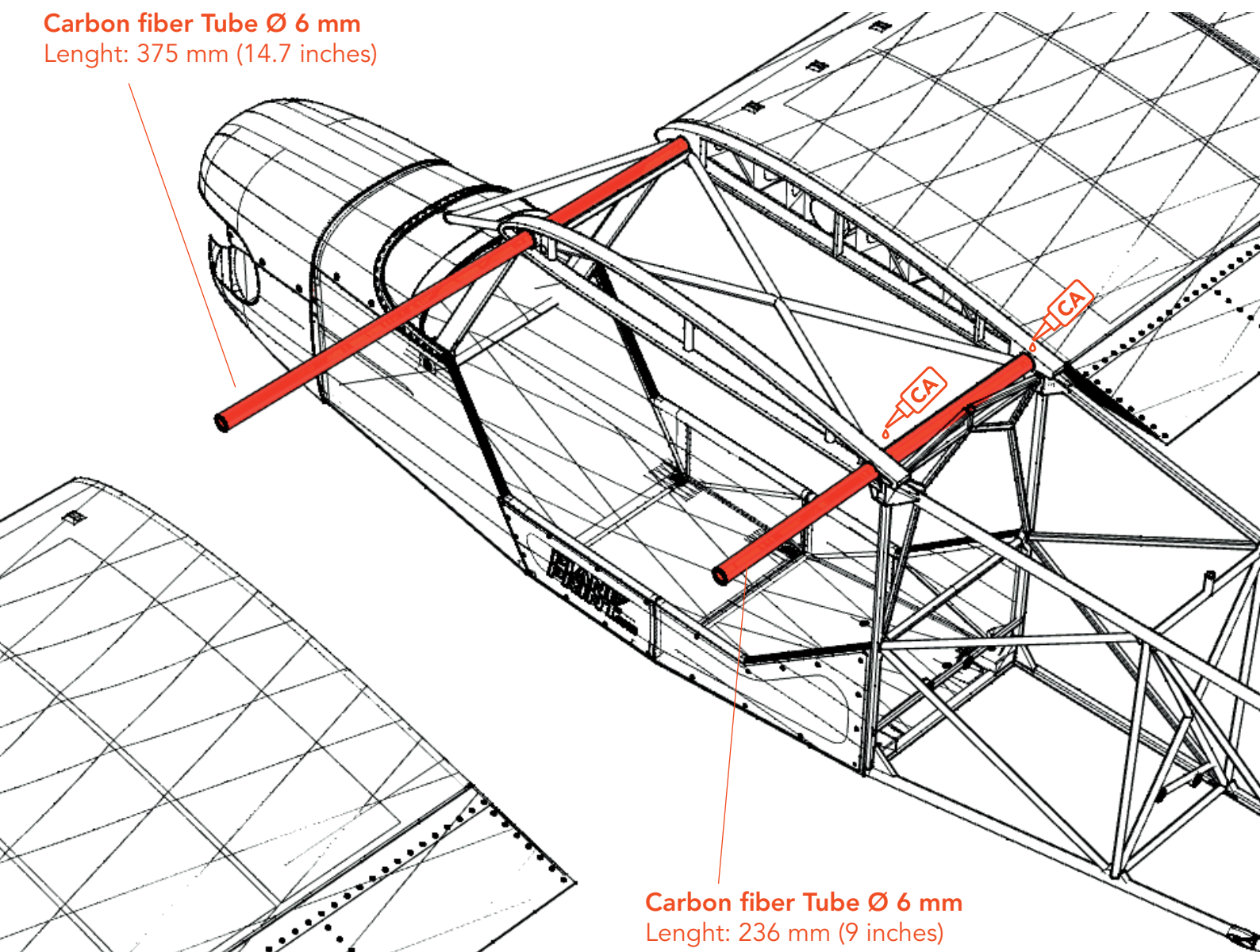


Assembling the wings



Assembling the wings

Carbon fiber Tube Ø 6 mm
Length: 375 mm (14.7 inches)

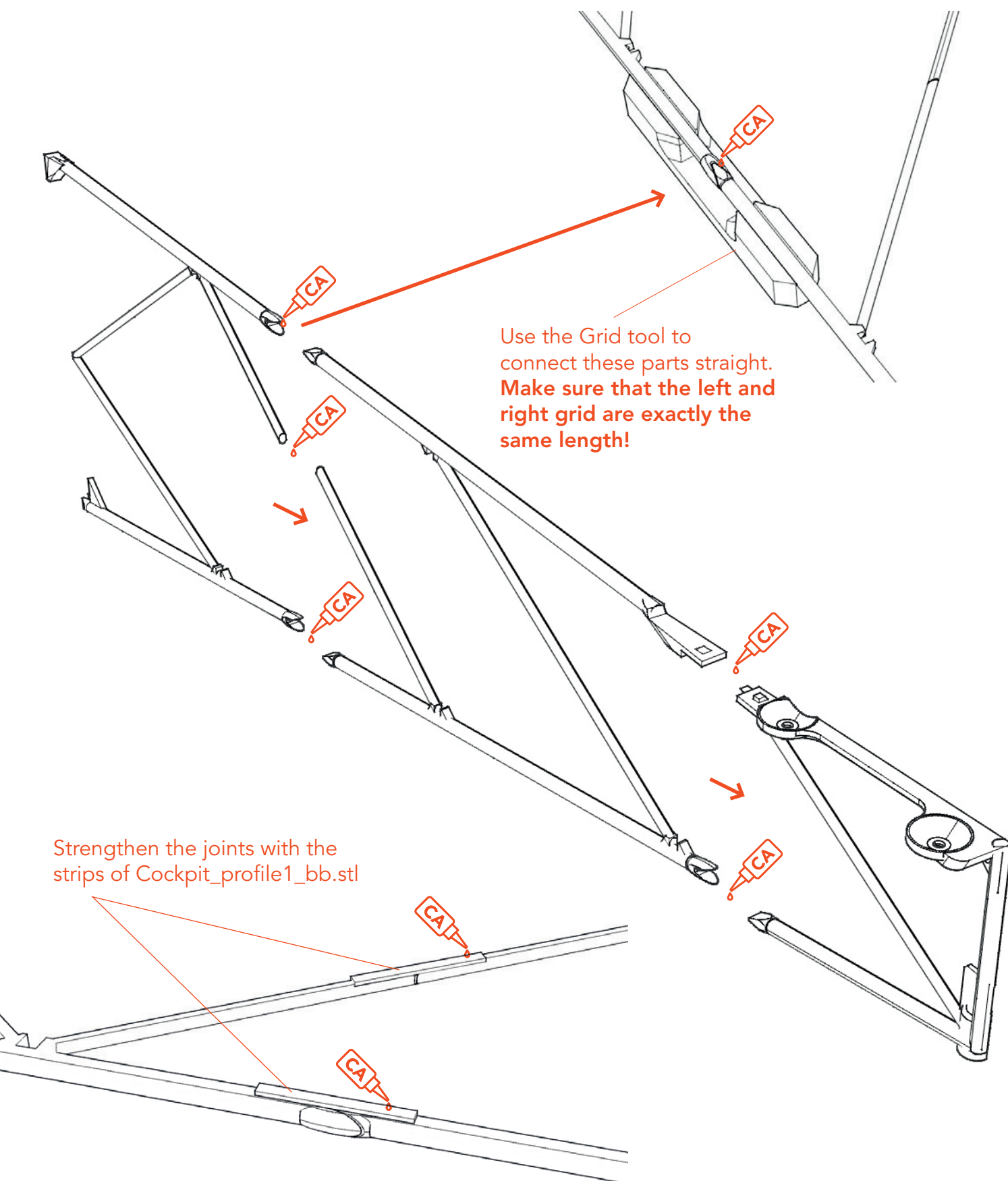


Carbon fiber Tube Ø 6 mm
Length: 236 mm (9 inches)

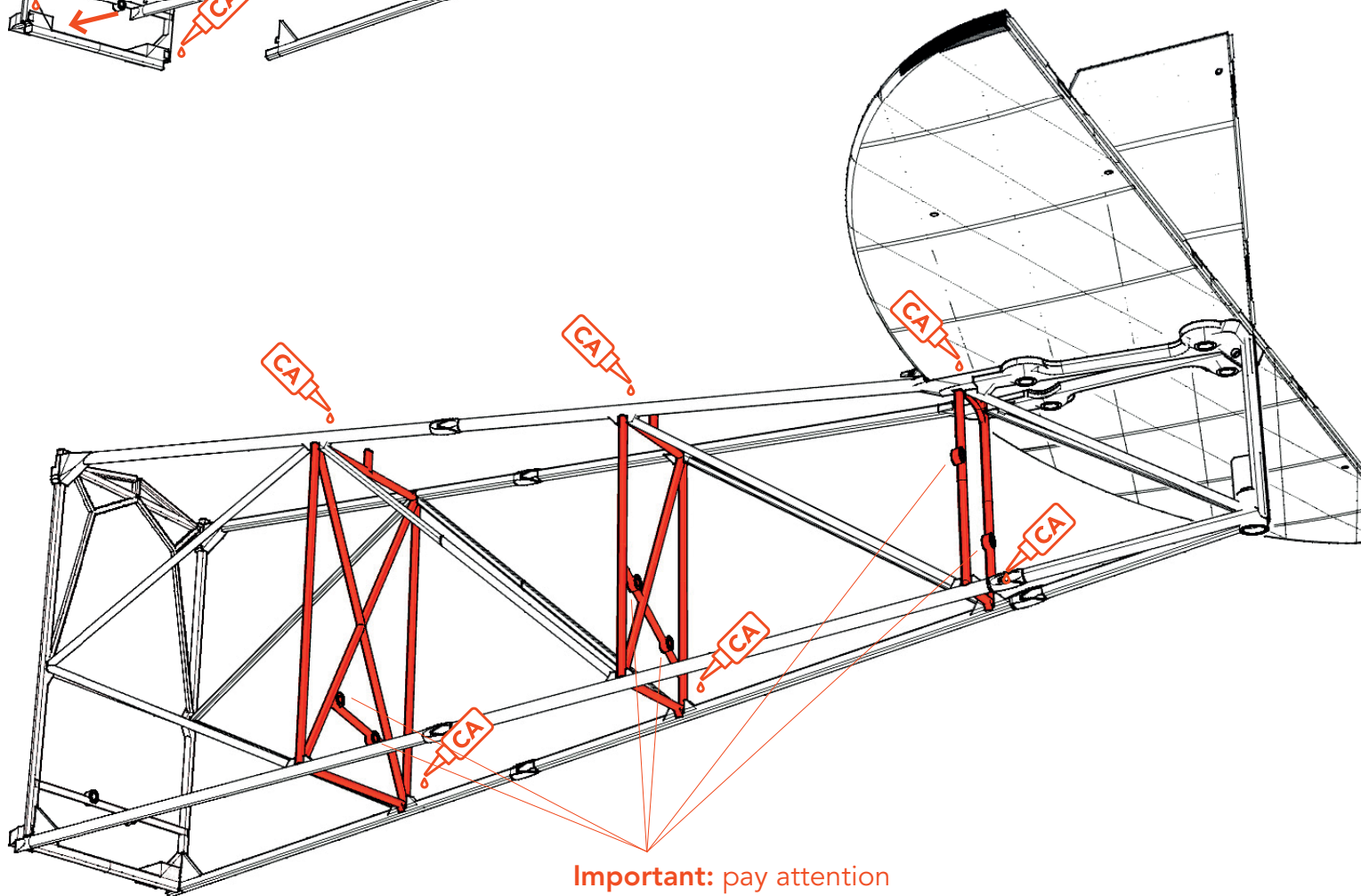
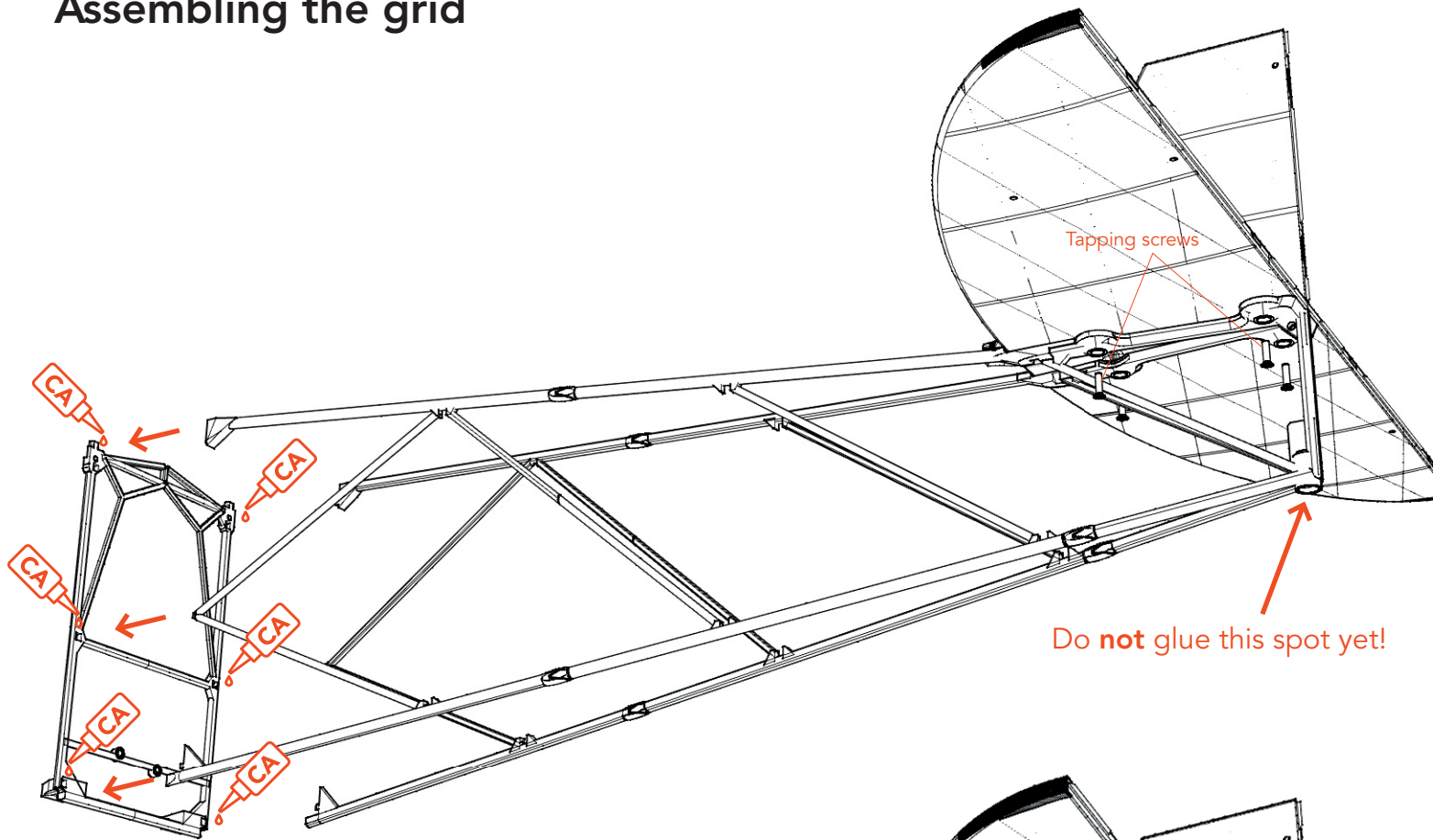
Fastening the wings (bottom side of wing 1)



Assembling the grid



Assembling the grid

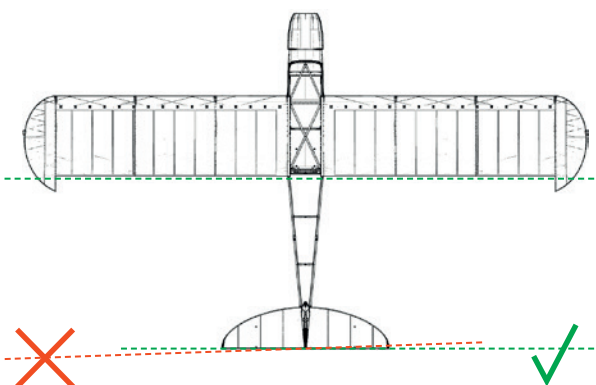
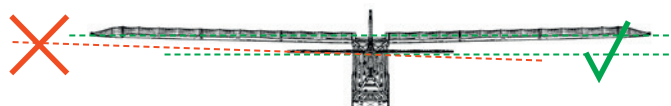


Important: pay attention to the **correct alignment!**

Assembling the grid

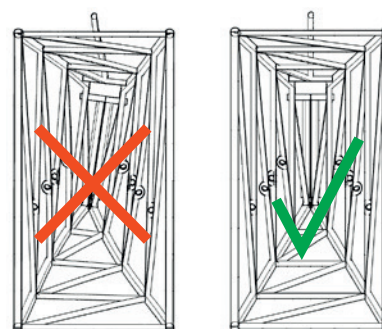
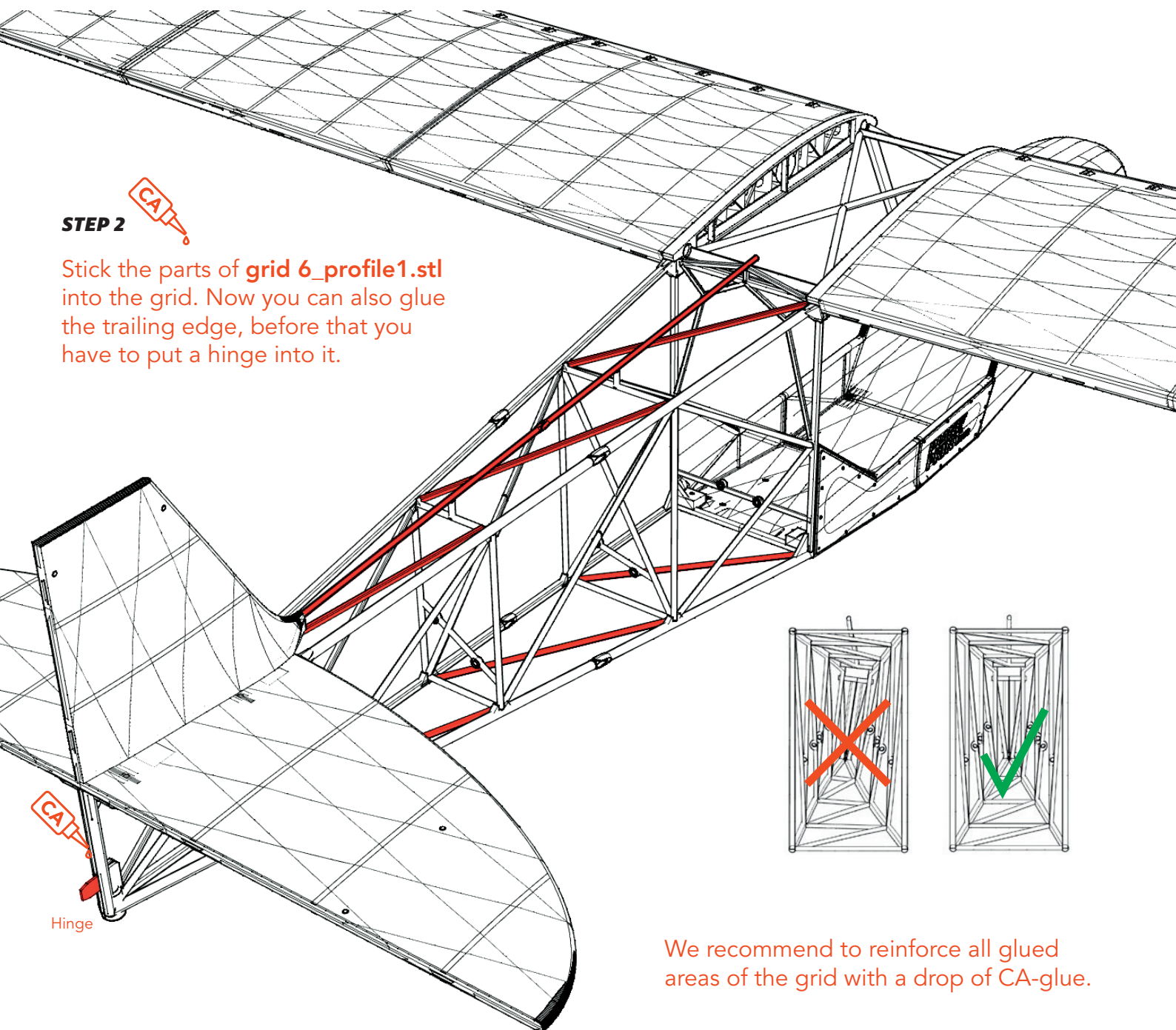
STEP 1

Screw the grid to the fuselage and **align** the tail unit **exactly!**



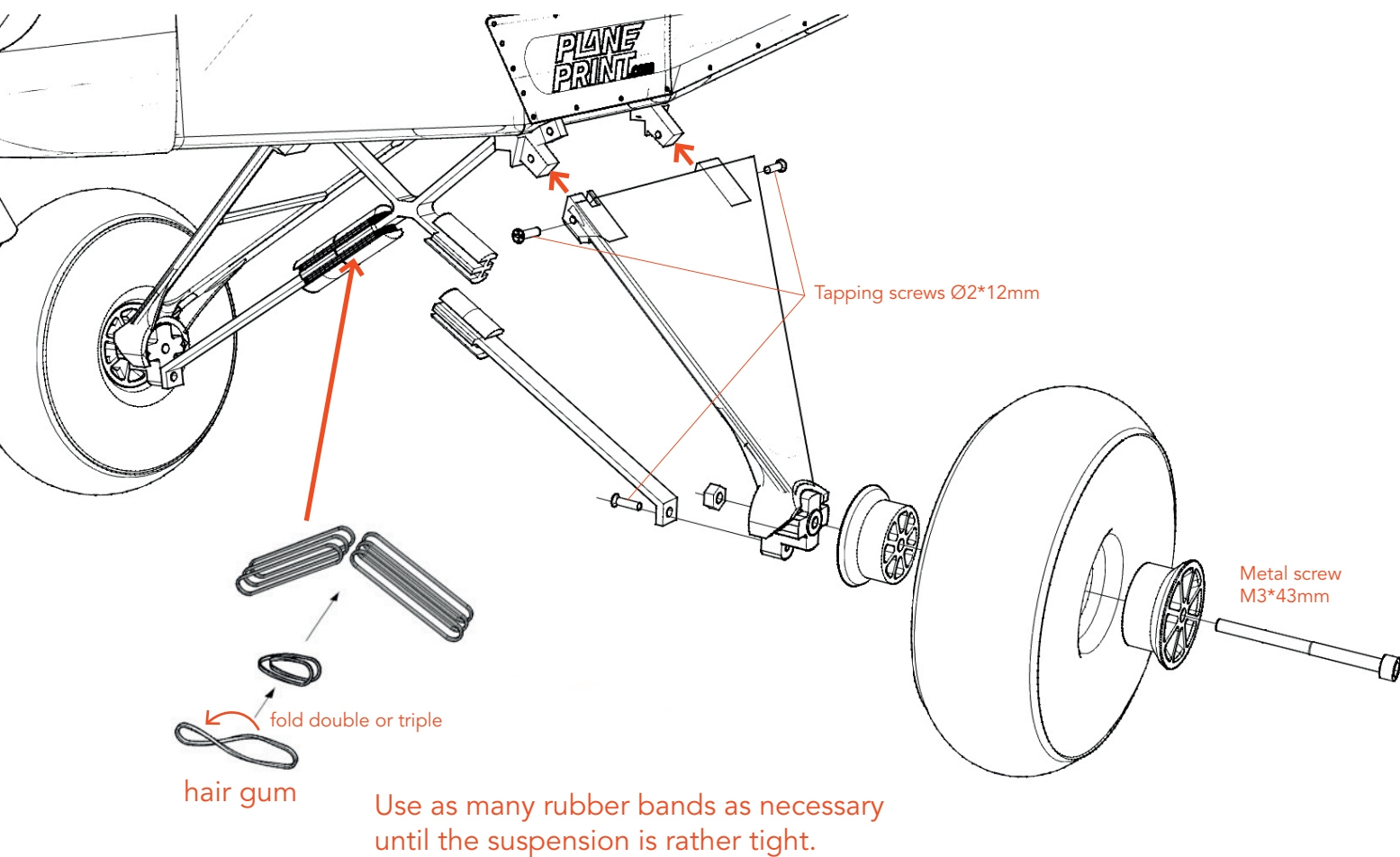
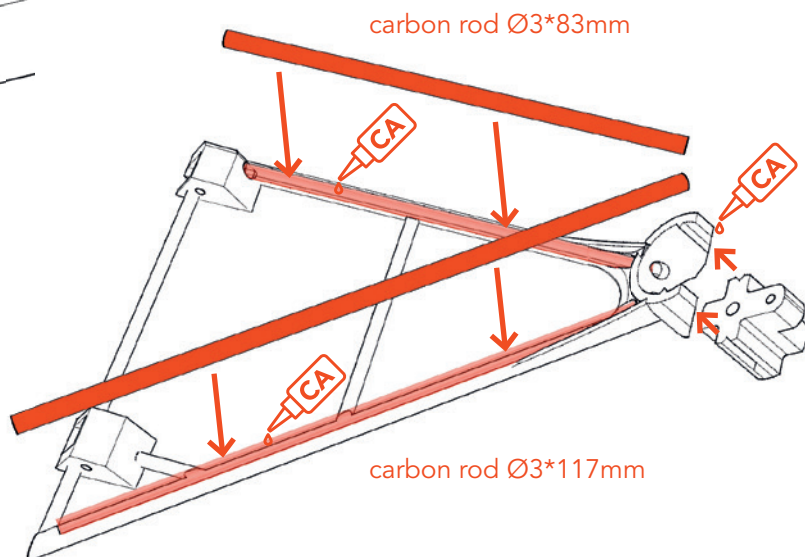
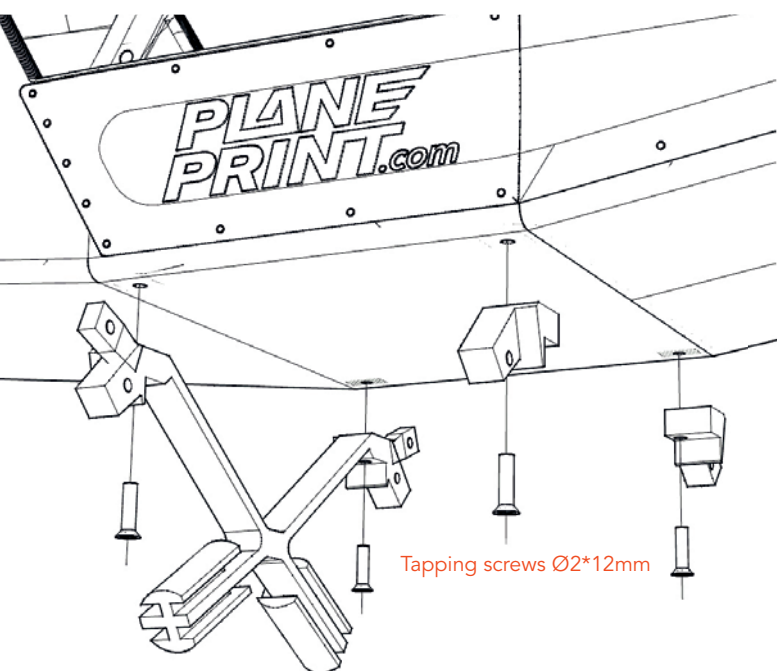
STEP 2

Stick the parts of **grid 6_profile1.stl** into the grid. Now you can also glue the trailing edge, before that you have to put a hinge into it.

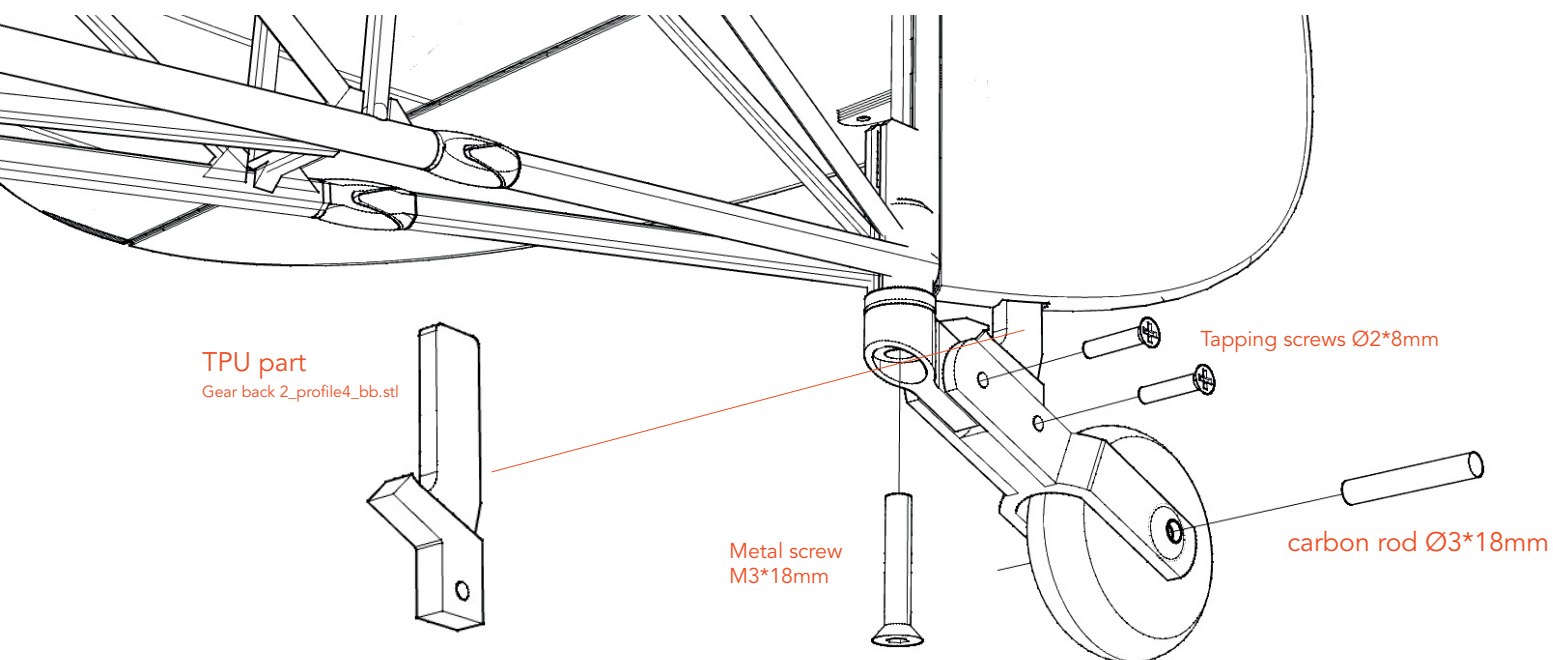


We recommend to reinforce all glued areas of the grid with a drop of CA-glue.

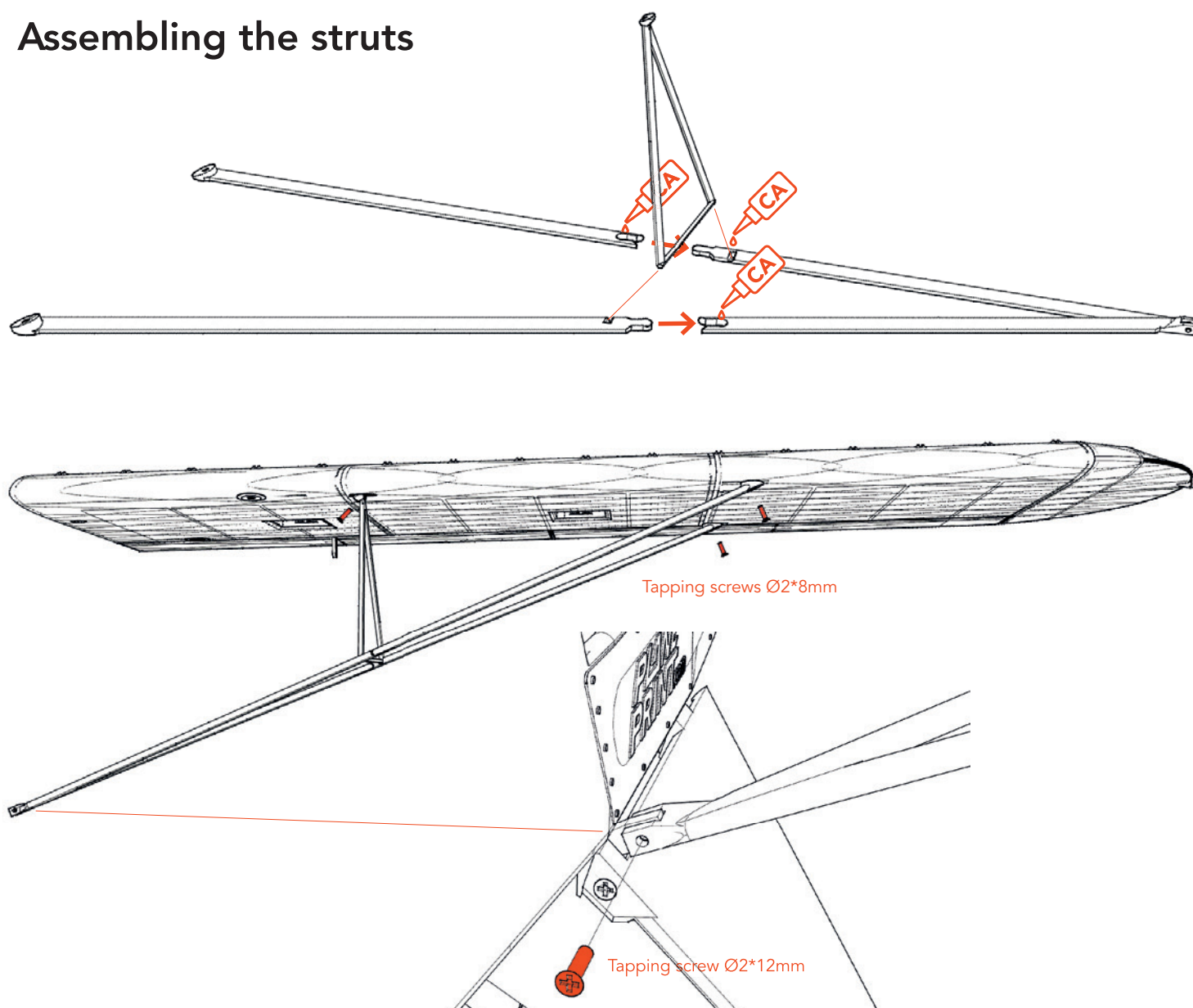
Assembling the main landing gear



Assembling the tail wheel

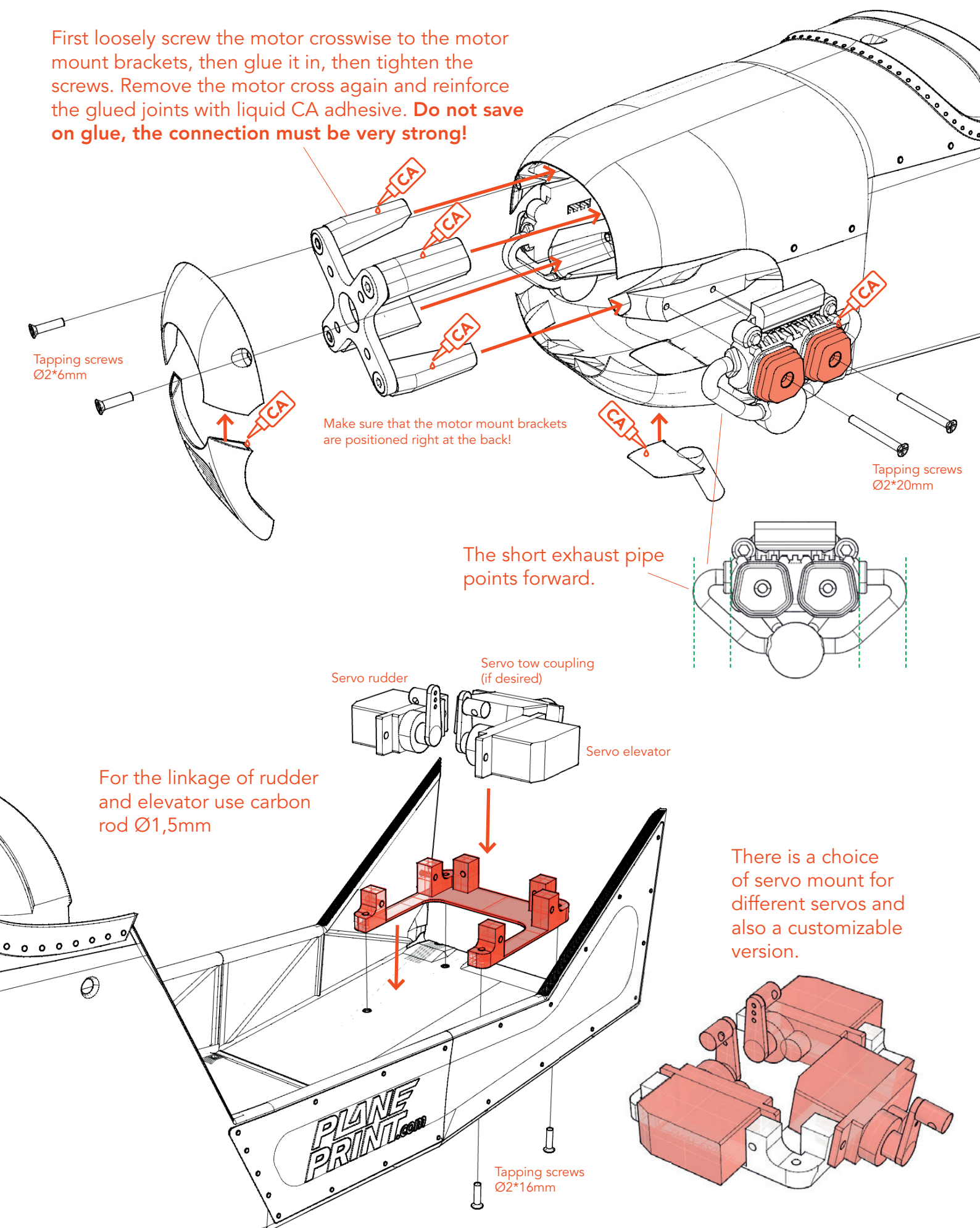


Assembling the struts

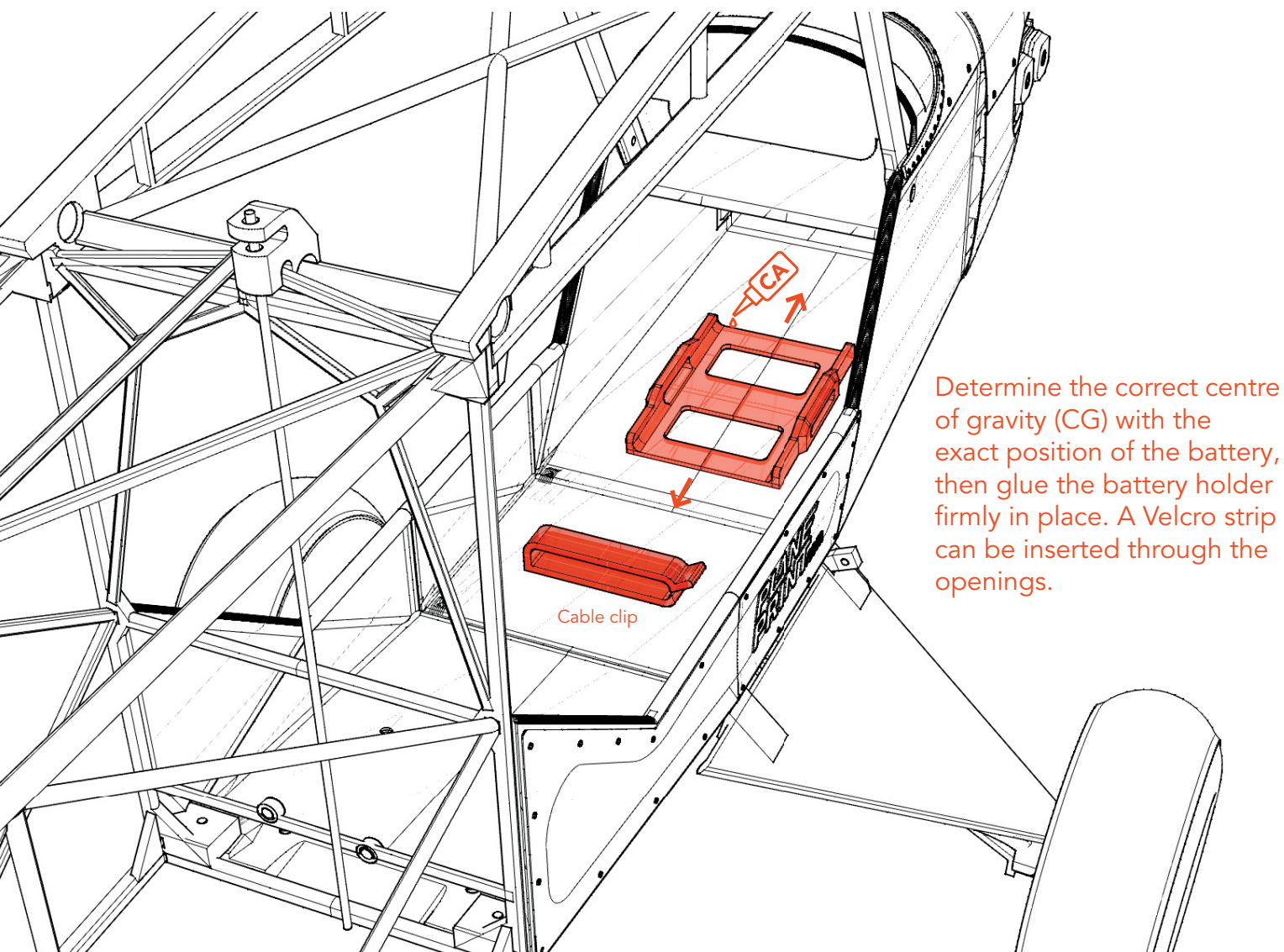


Installation of the RC components

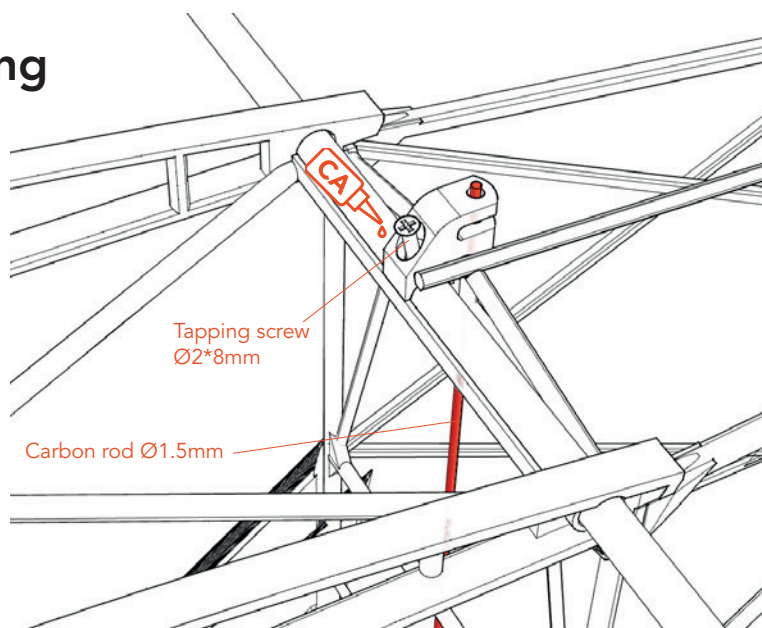
First loosely screw the motor crosswise to the motor mount brackets, then glue it in, then tighten the screws. Remove the motor cross again and reinforce the glued joints with liquid CA adhesive. **Do not save on glue, the connection must be very strong!**



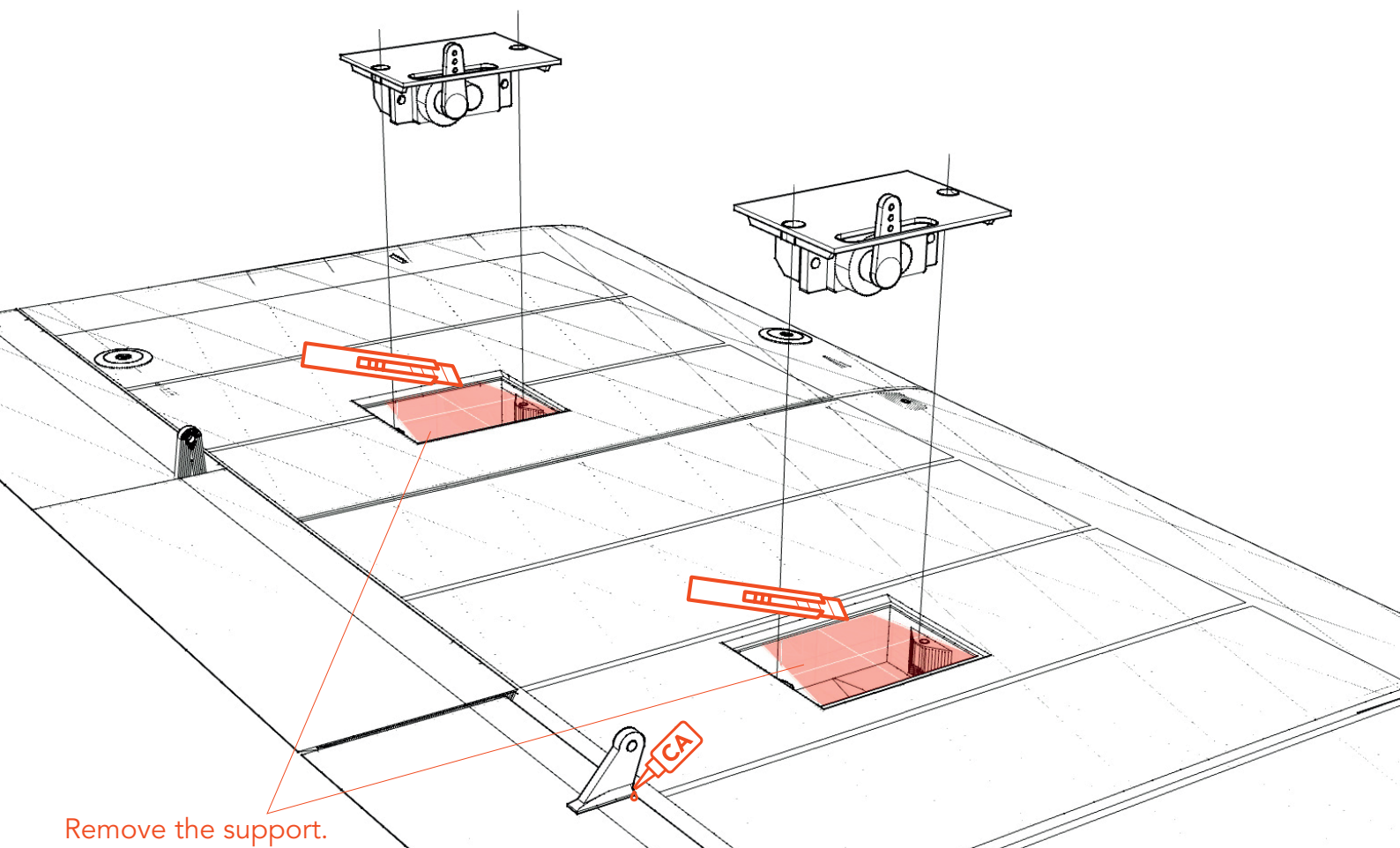
Installation of the RC components



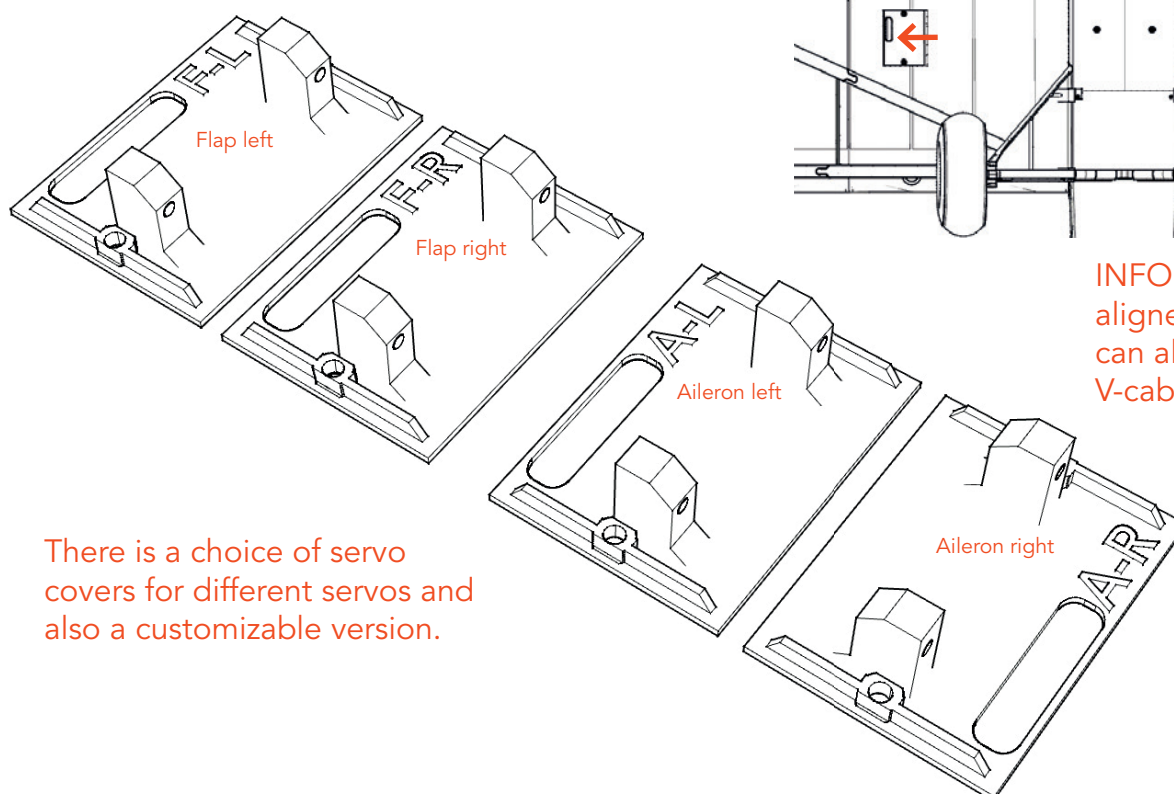
Assembling of the tow coupling



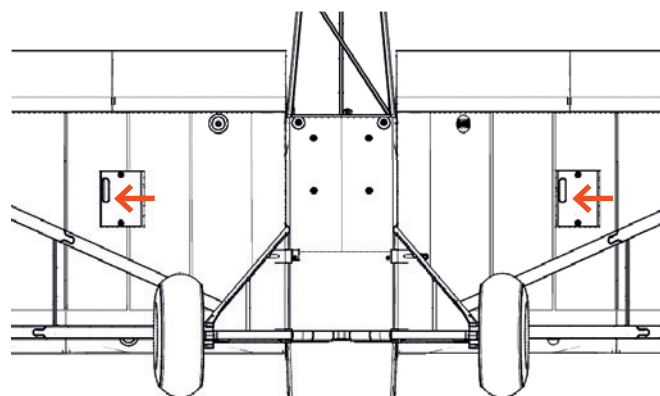
Installation of the wing servos



Remove the support.
Be careful when
handling the cutter!



There is a choice of servo
covers for different servos and
also a customizable version.

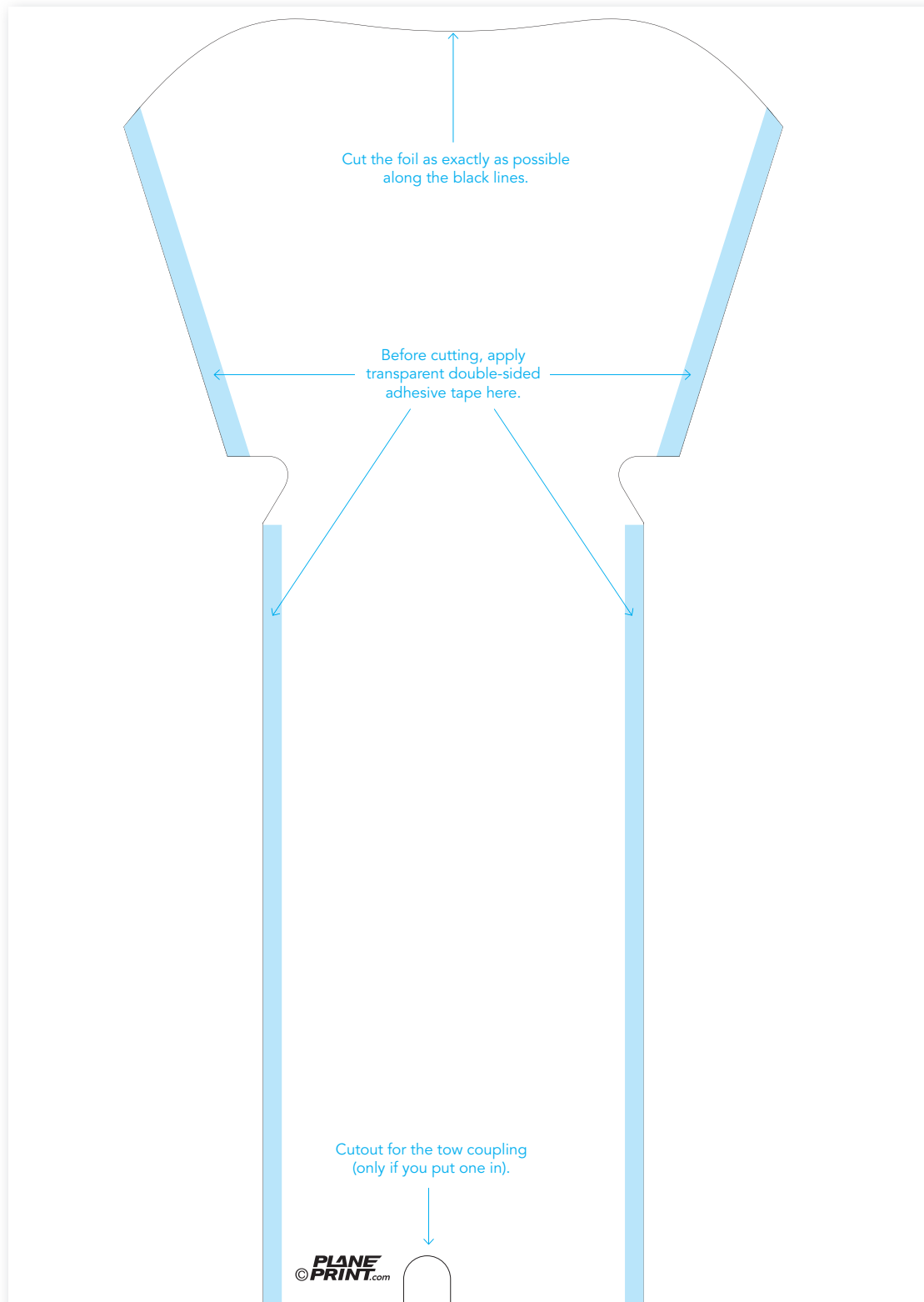


INFO: The flap servos are
aligned in the same way and
can also be connected with
V-cable on one channel.

Installation of the wing shield

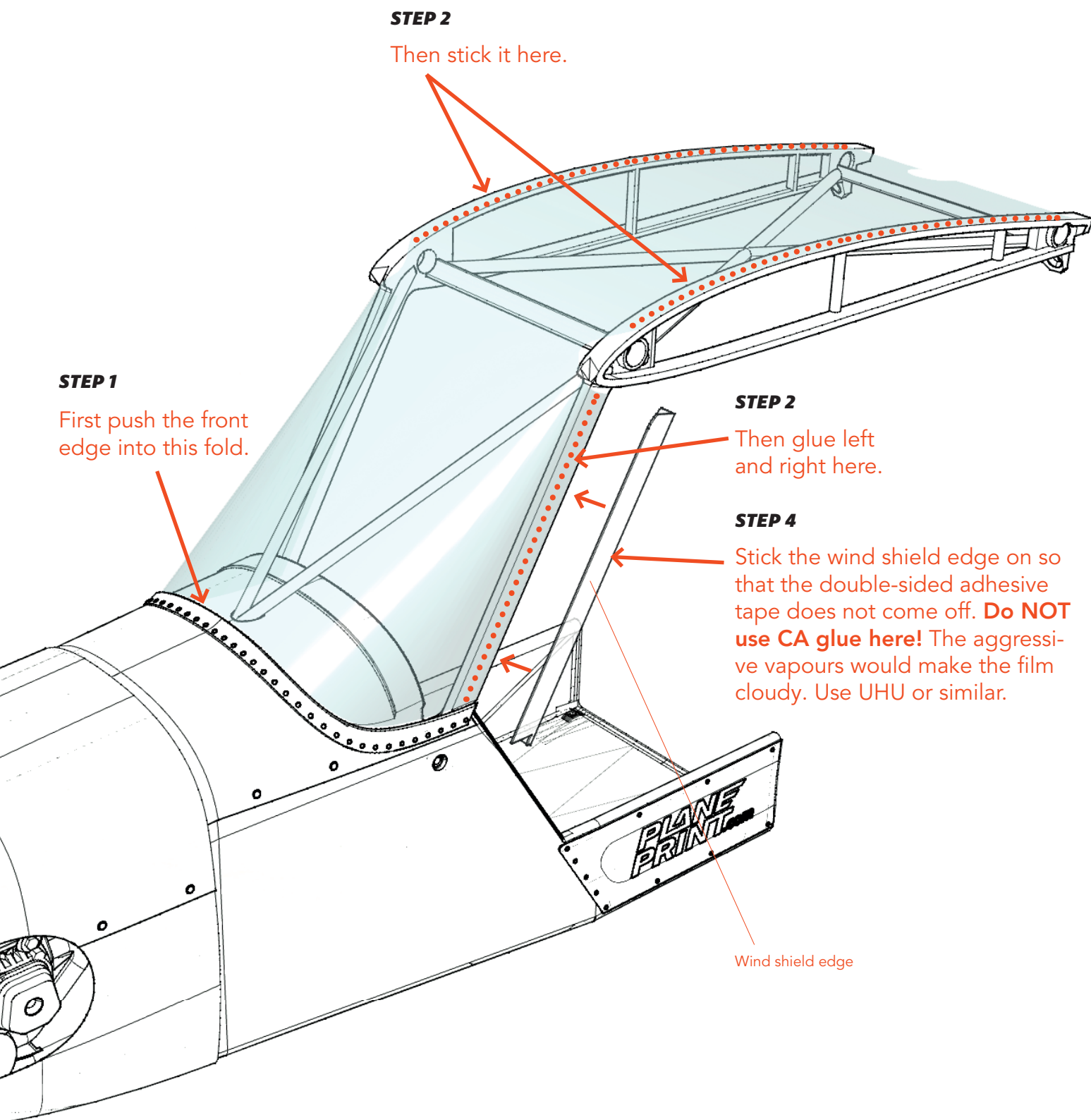
With the STL data you will find the PDF file **Canopy-path.pdf** as a cutting template for the wind shield. **IMPORTANT:** the print must be set to 100% page size, so that the size fits exactly!

Suitable foils are overhead foils or binding covers of scripts (~0,2mm, office trade) in DIN A4 format.



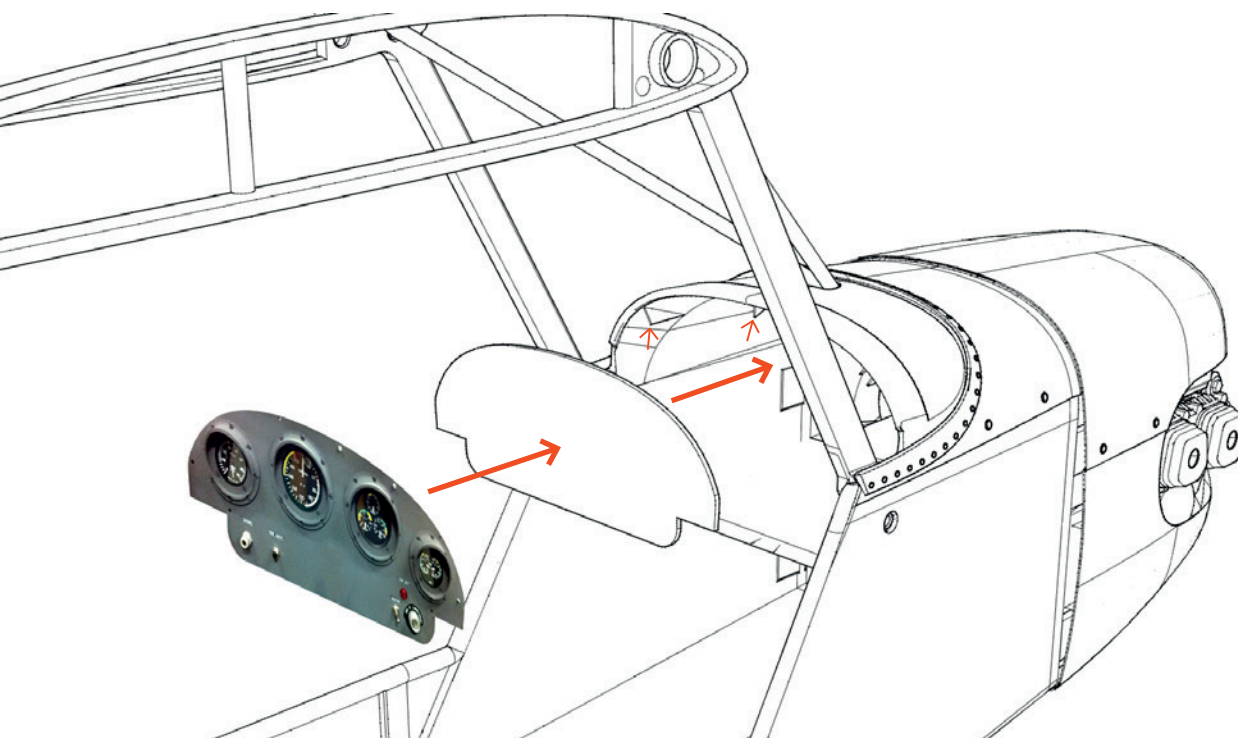
Installation of the wing shield

We recommend to attach the wind shield only at the end.



Cockpit print template

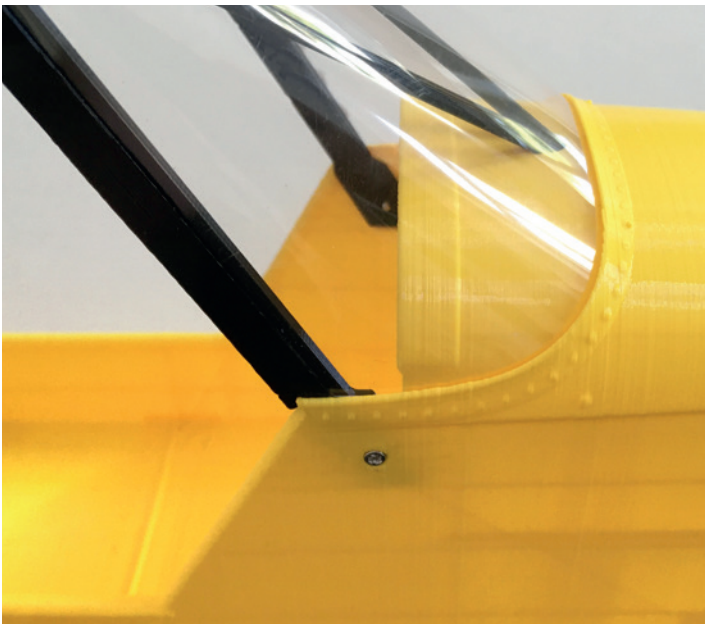
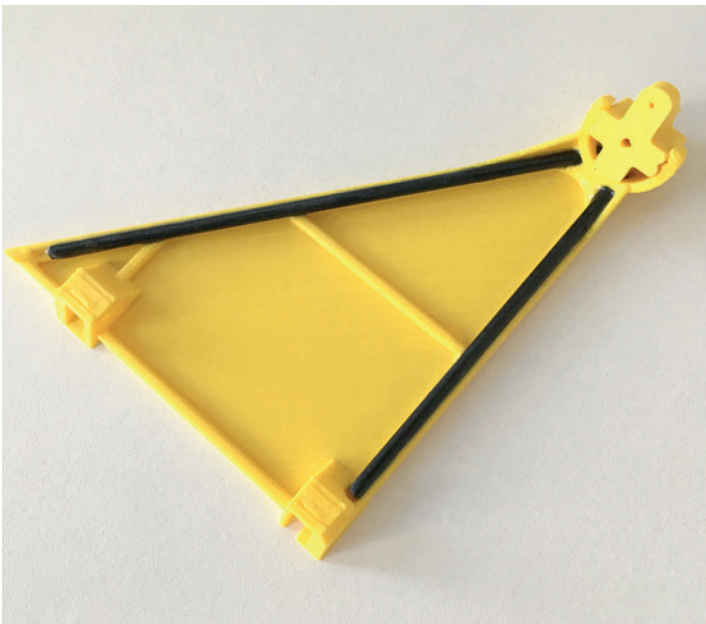
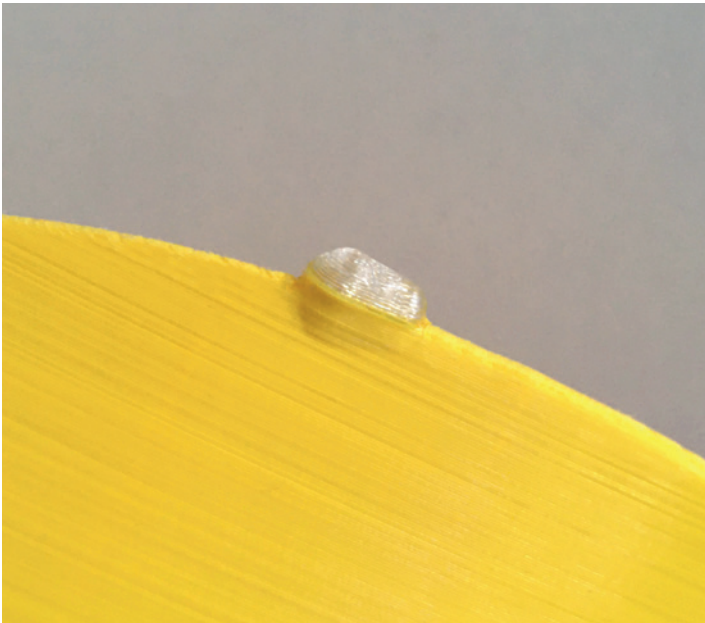
IMPORTANT: the print must be set to 100% page size, so that the size fits exactly!



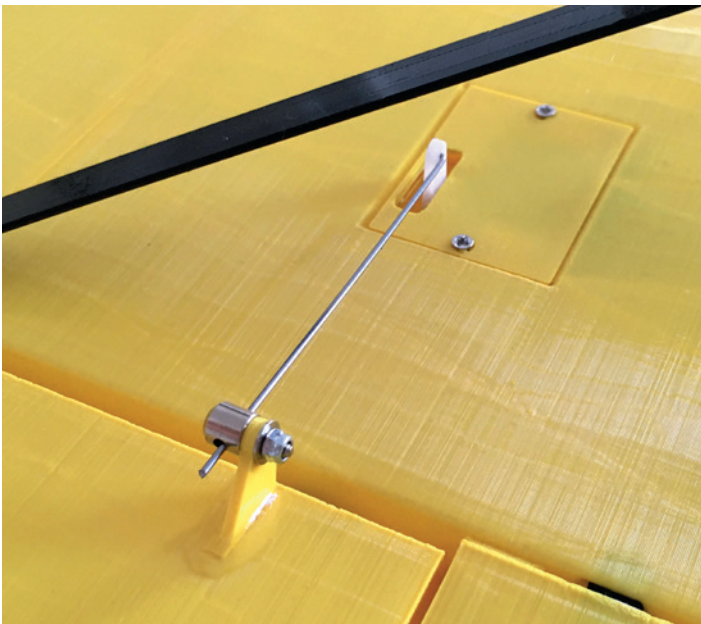
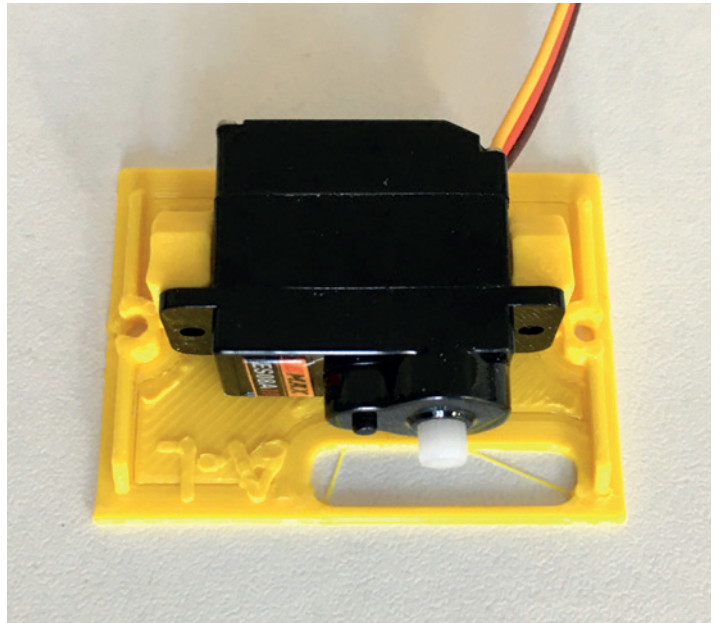
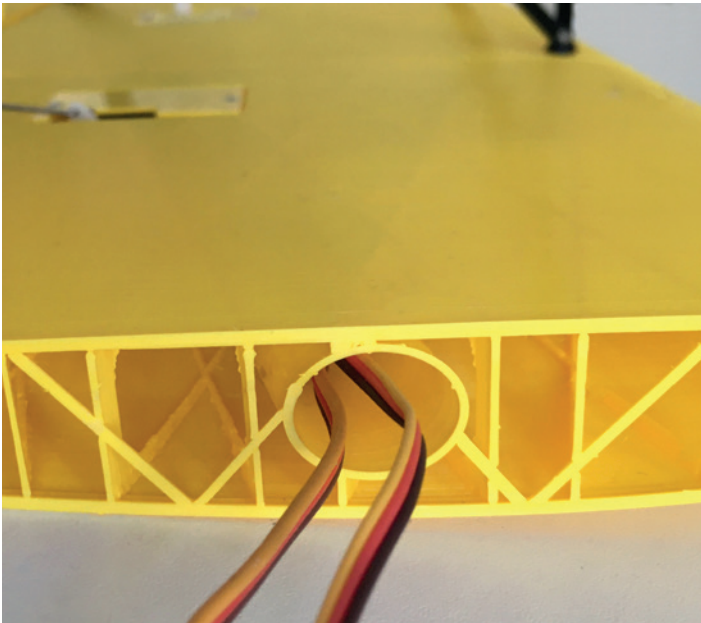
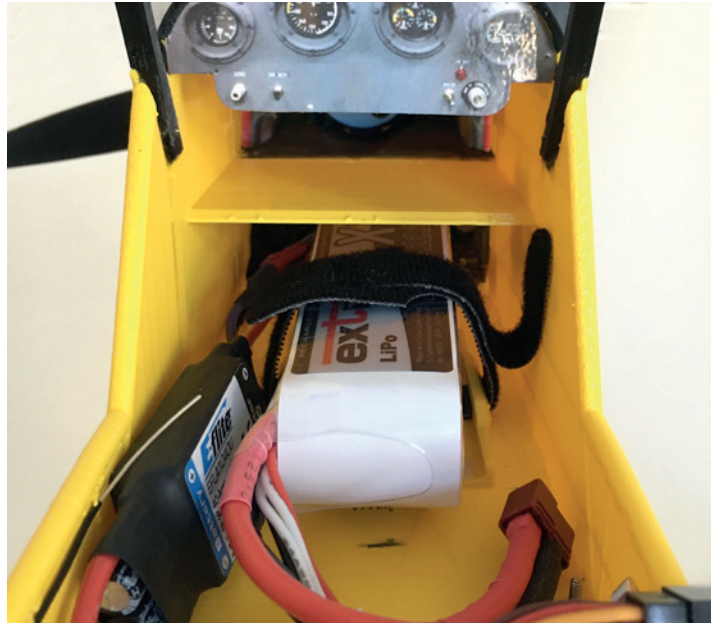
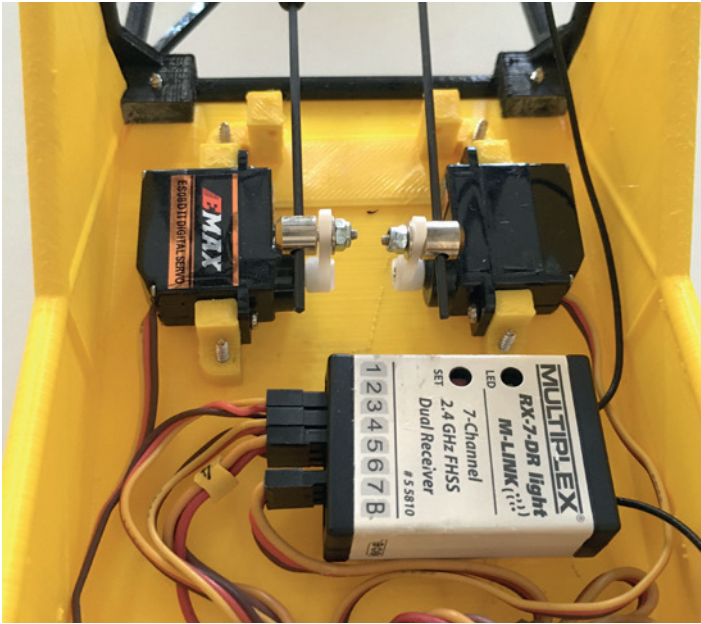
Be careful when
handling the cutter!



DETAIL PHOTOS



DETAIL PHOTOS



QUICK START GUIDE

After installing the electronics and setting up the transmitter, check that the control surfaces are aligned correctly. Set the transmitter trim to zero. The ailerons should be aligned with the trailing edge of the wing tip. Then align the flaps with the ailerons. The elevator should be aligned with

the horizontal stabilizer and the rudder to the vertical stabilizer. Change the position of the moving parts by changing the length of the linkage from the servo arm to the control horn. In-flight adjustments can be made later with the trim.

TRANSMITTER CONFIGURATION

1. Select empty (Acro) model
2. Wing type: 2 ailerons, 1 flap
3. Reversing the direction of servo as required (see control function)
4. Servo adjustment all: 100%

SETTING THE SERVO TRAVEL

Aileron	▲ = 25 mm	▼ = 15 mm
Elevator	▲ = 25 mm	▼ = 25 mm
Rudder	◀ = 35 mm	▶ = 35 mm
Flaps	half ▼ = 6 mm	full ▼ = 12 mm

Be careful with the flaps, the braking effect is very strong and only a small angle is needed!

EXPO SETTING

Aileron	30 %
Elevator	30 %
Rudder	30 %

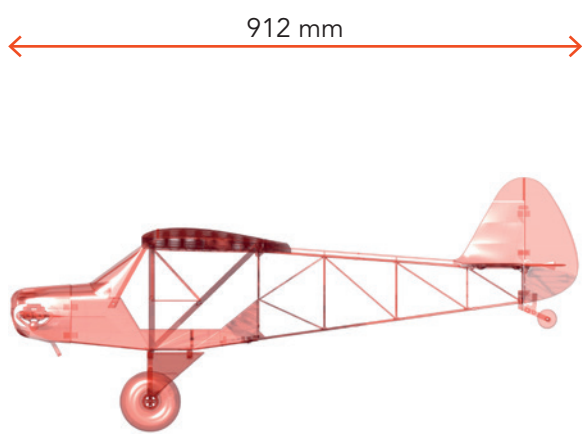
FLIGHT TIMER

Flight time will vary depending on the battery size. Expect 5 minutes under normal circumstances; however, it may be possible to fly for much longer. It is a good idea to be conservative with the flight timer until you gain experience with your airplane.

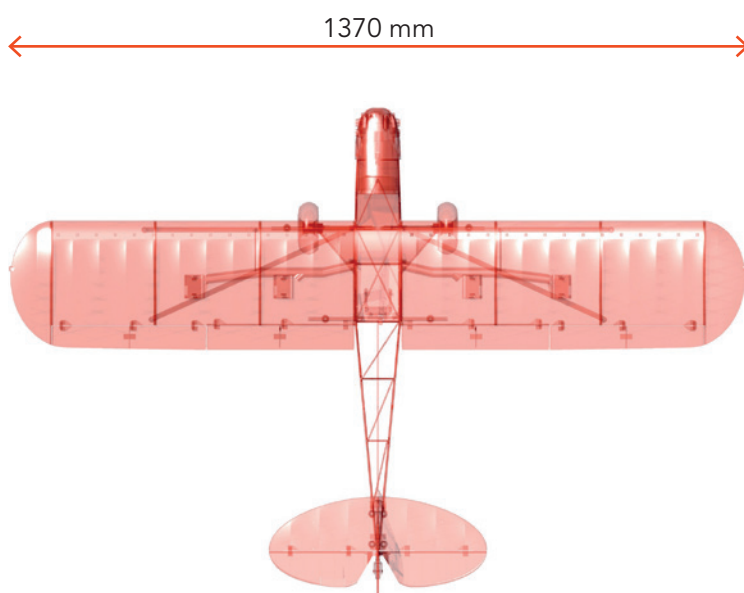
CENTER OF GRAVITY (CG)

76 mm/3 inches behind the leading edge (see markings on the wing). For the first flight we recommend to move the center of gravity about 5 mm/0.2 inches further forward.

TECHNICAL SPECIFICATIONS



408 mm



WEIGHT:

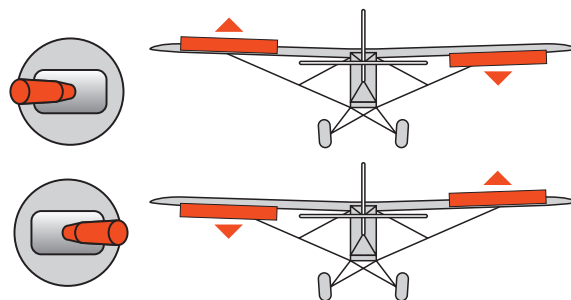
Without RC components: ~ 995 g
Flight weight: ~ 1400 g

CONTROL DIRECTION TEST

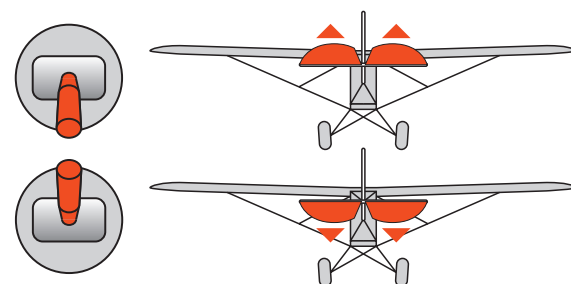
Turn on the transmitter and connect the battery. When checking the control directions, look at the aircraft from behind.

1. Move the aileron lever to the left. The right aileron should move down and the left aileron should move up so that the aircraft tilts to the left.
2. Move the aileron lever to the right. The right aileron should move up and the left aileron down so that the aircraft is tilting to the right.
3. Pull back the elevator lever. The elevators should move up, causing the aircraft to rise.
4. Push the elevator lever forward. The elevator should move down so that the aircraft sinks.
5. Move the rudder lever to the left. The rudder should move to the left.
6. Move the rudder lever to the right. The rudder should move to the right.
7. Move the flap switch to position 2. The flaps should move down by the set value „half“.
8. Move the flap control switch to position 3. The flaps should move down by the set value „whole“.

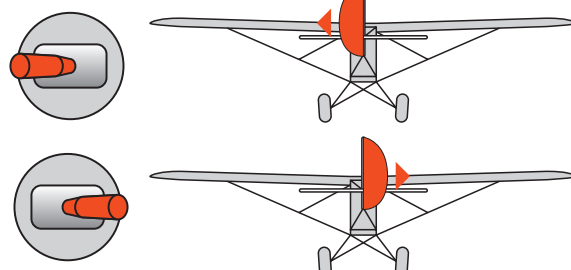
AILERON



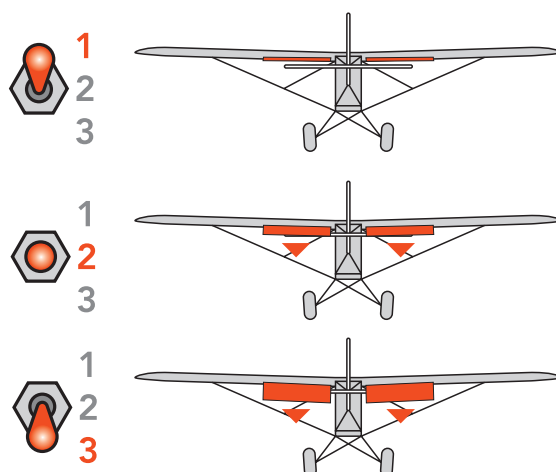
ELEVATOR



RUDDER



FLAPS



AGE RECOMMENDATION 14+

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

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. Please be careful when handling motors, batteries and propellers and only move your model with insurance and in approved places!

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