PLANE PRINT.com
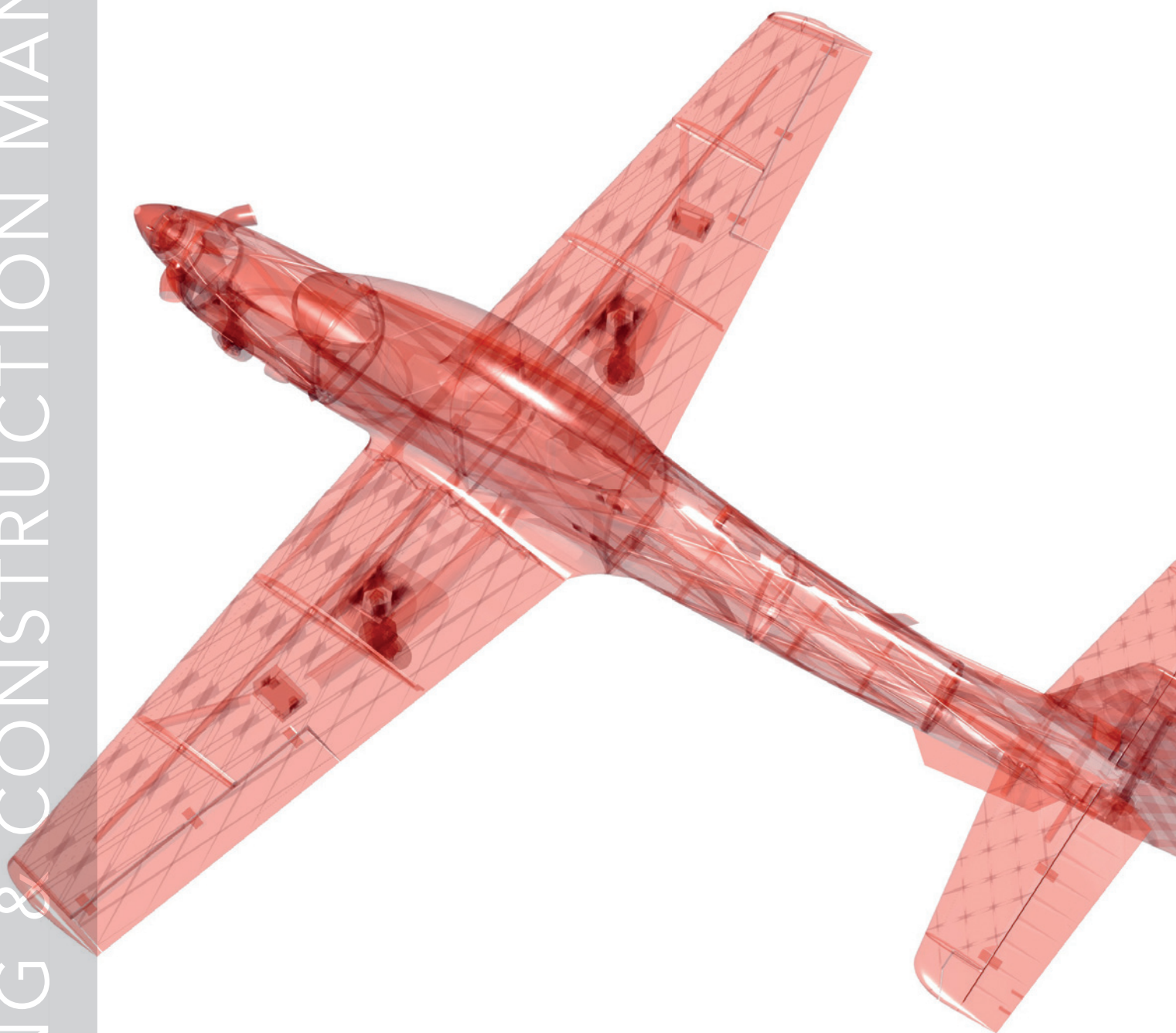
very light 3d printable rc planes

PLANEPRINT SUPER TUCANO

- Full scale replica in 3D super lightweight construction.
- Real 1 wall construction (Currently only supported by CURA!).
- Wingspan 1300 mm (51 inches).

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

FAIR USE DATA ©

STL DATA FOR DOWNLOADING
AT **www.planeprint.com**

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 prin-ting 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.

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

PRINTING MANUAL
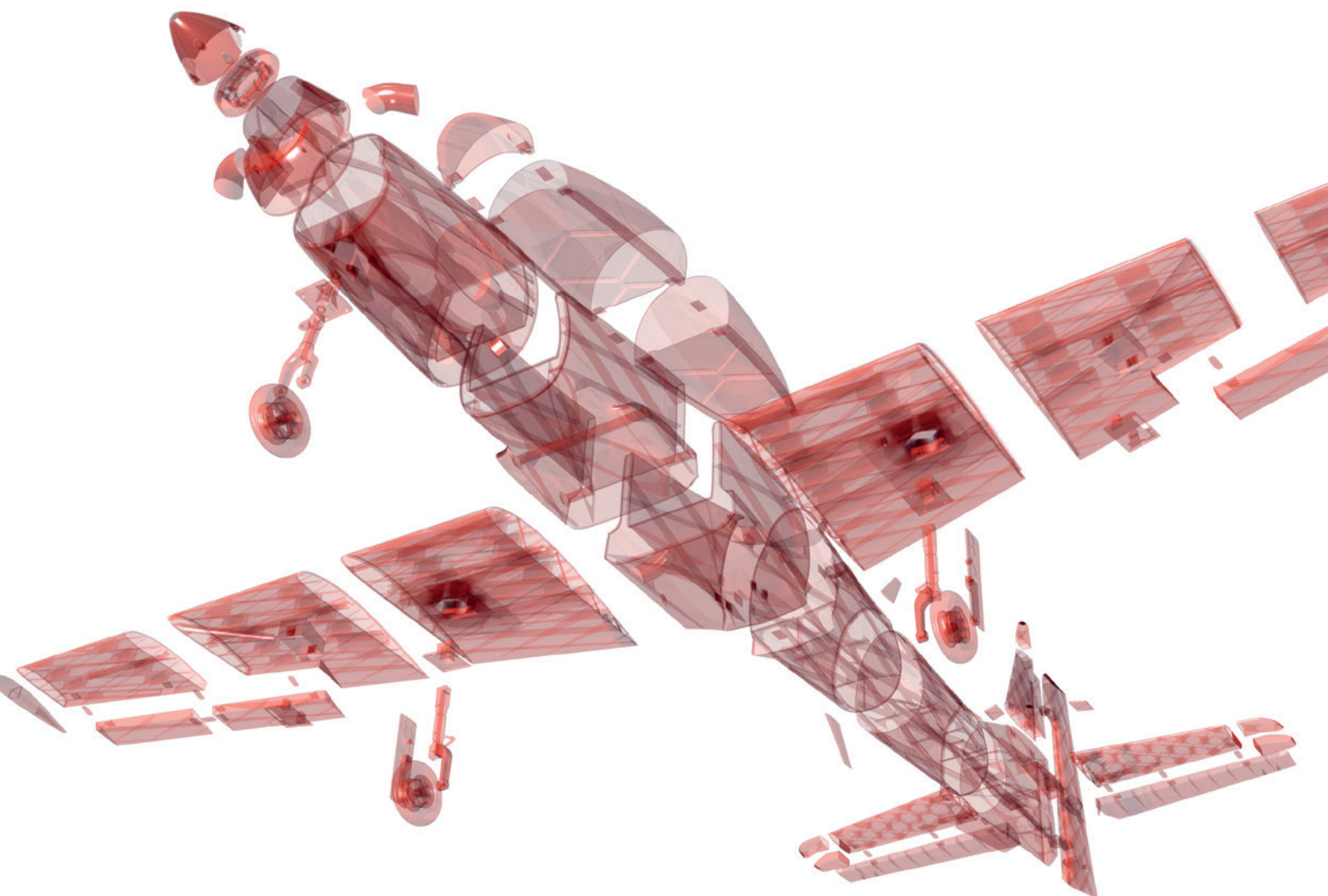
PROFILE P1_FULLBODY

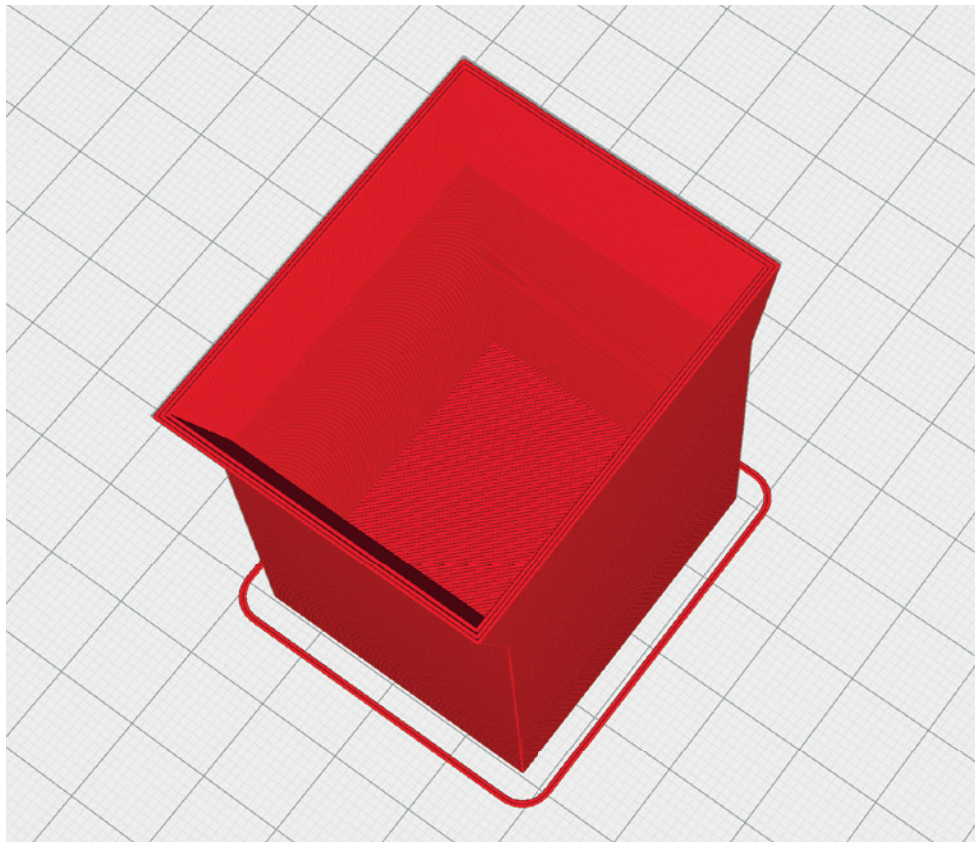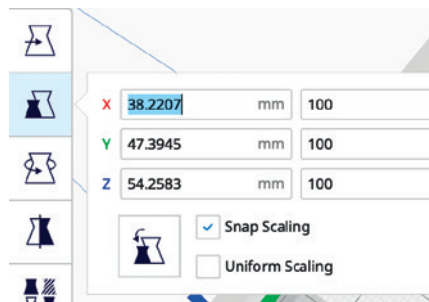The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

INFO

STL: st-Battery mount 1_profile1.stl
Material: PLA
Weight: ~ 14 g

ADDITIONAL SETTINGS

The size fits for batteries with the dimensions 33x37 mm. If your battery differs, you can change the X and Y axis in Cura.
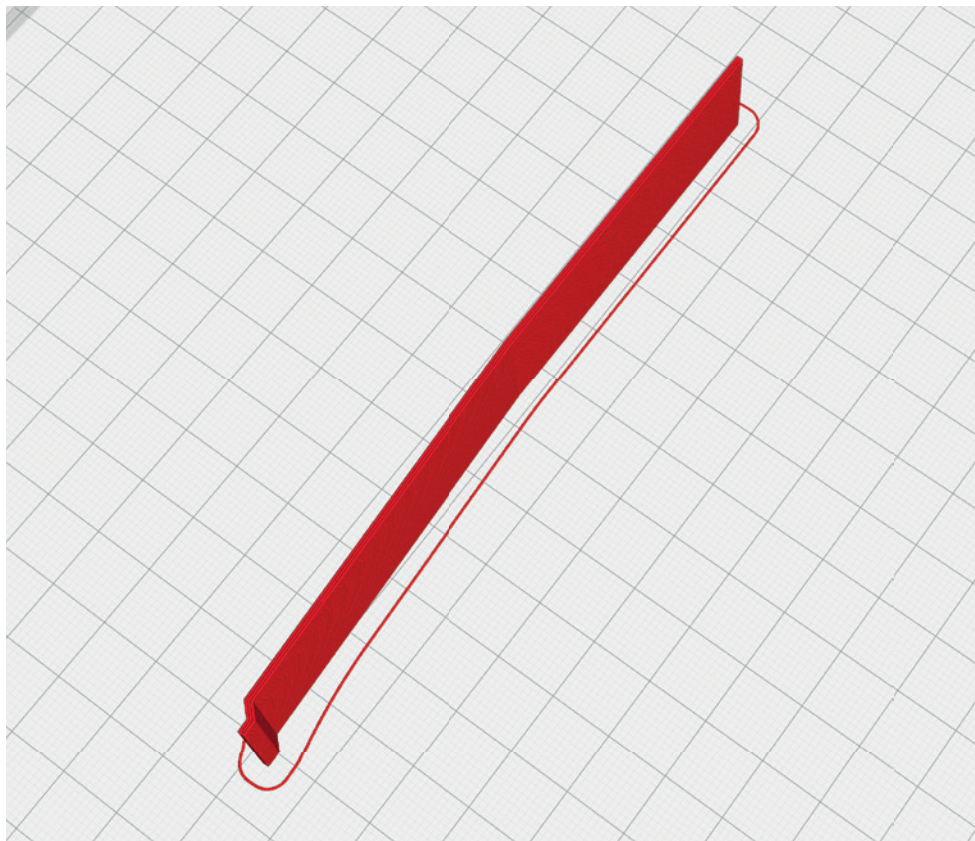

X	38.2207	mm	100
Y	47.3945	mm	100
Z	54.2583	mm	100

☑ Snap Scaling
☐ Uniform Scaling

INFO

STL: st-Battery mount 2_profile1.stl
Material: PLA
Weight: ~ 4 g

ADDITIONAL SETTINGS

None nessesery

PROFILE P1_FULLBODY

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

INFO

STL: st-Gear 1_profile1.stl
Material: PLA
Weight: ~ 31 g
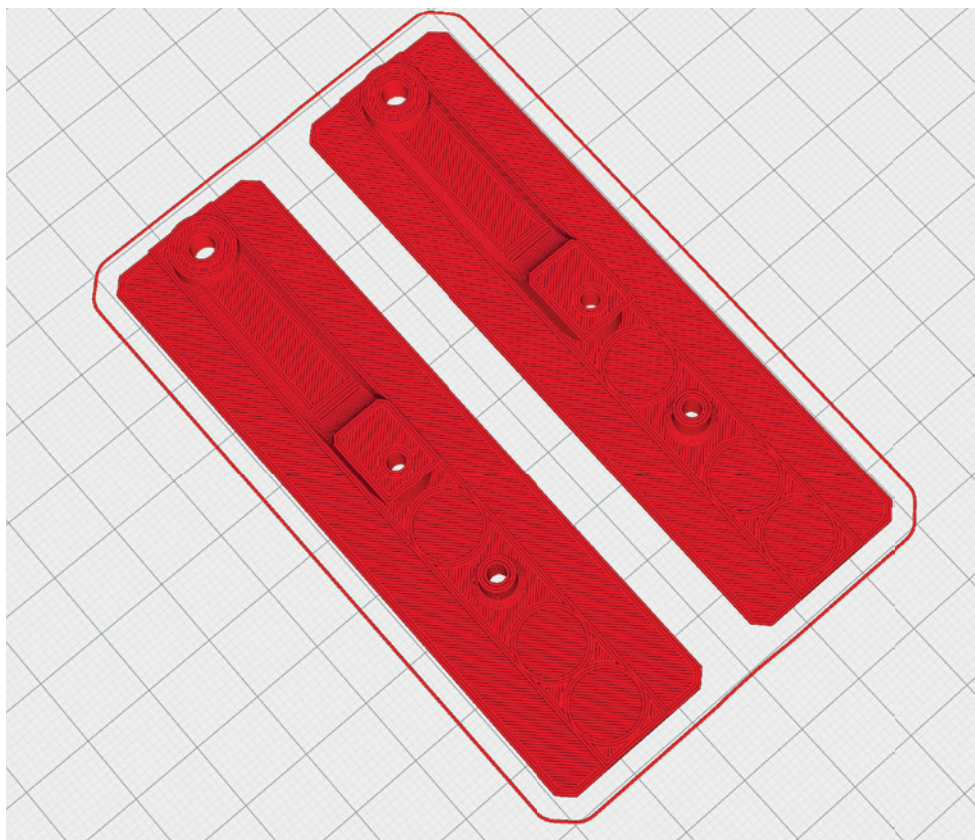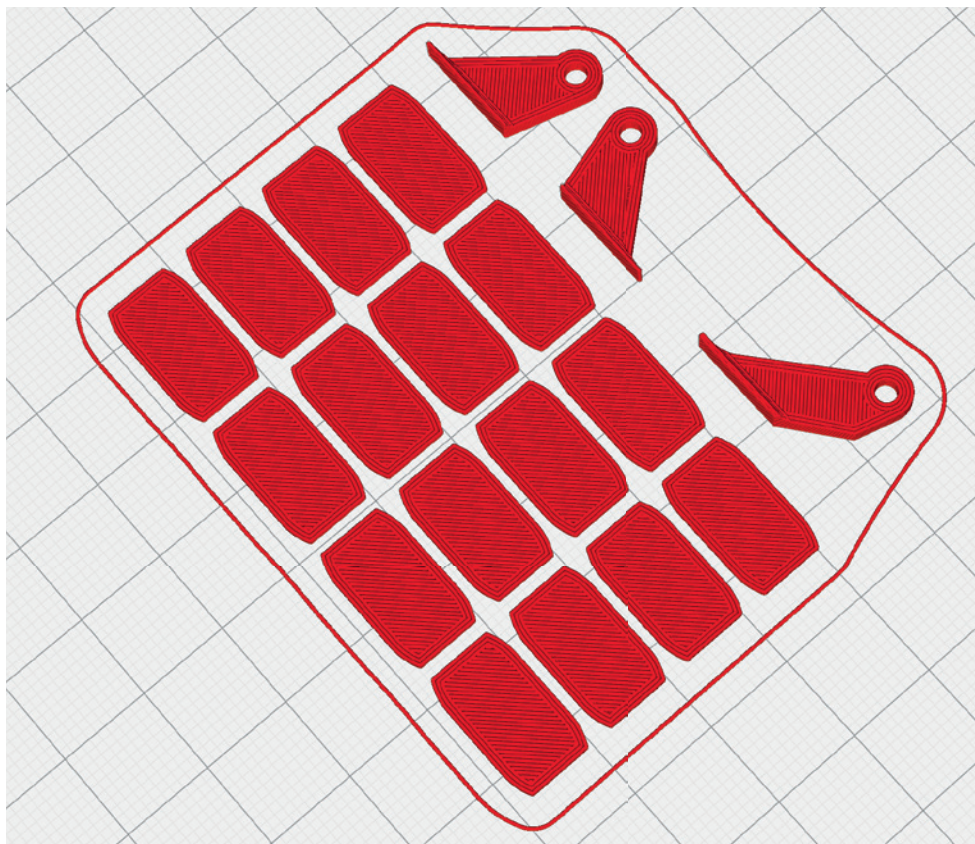
ADDITIONAL SETTINGS

• Wall Line Count 8
• Fan 50 %
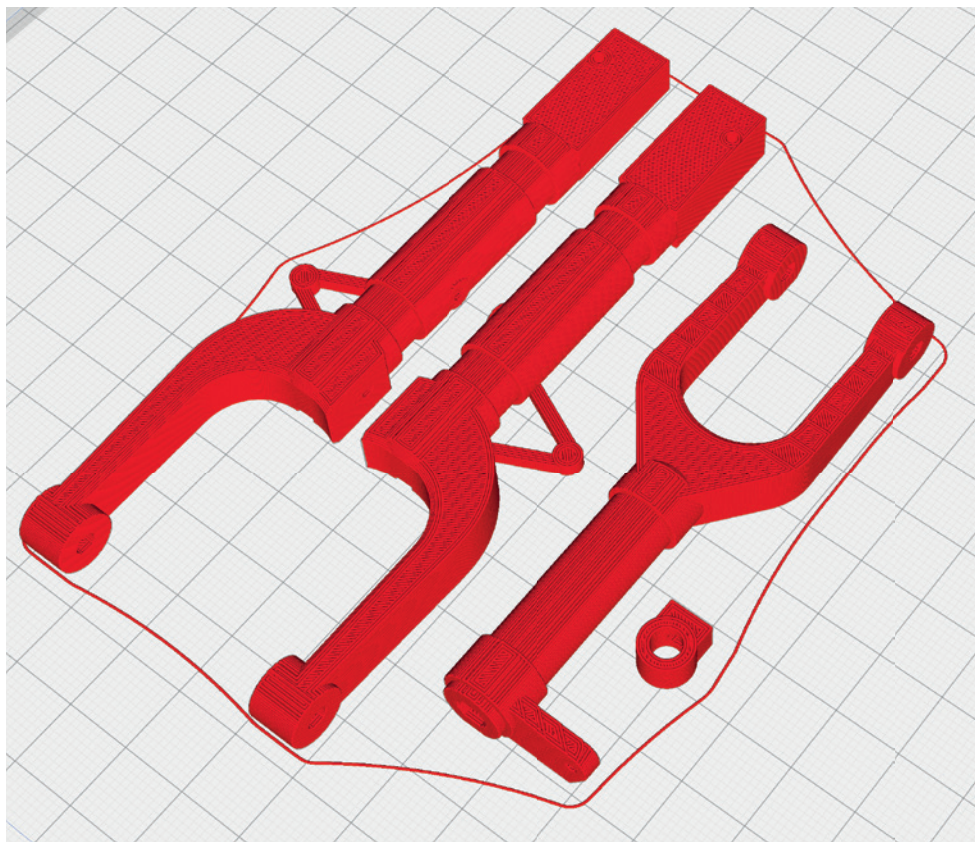
INFO

STL: st-Gear 2_profile1.stl
Material: PLA
Weight: ~ 9 g

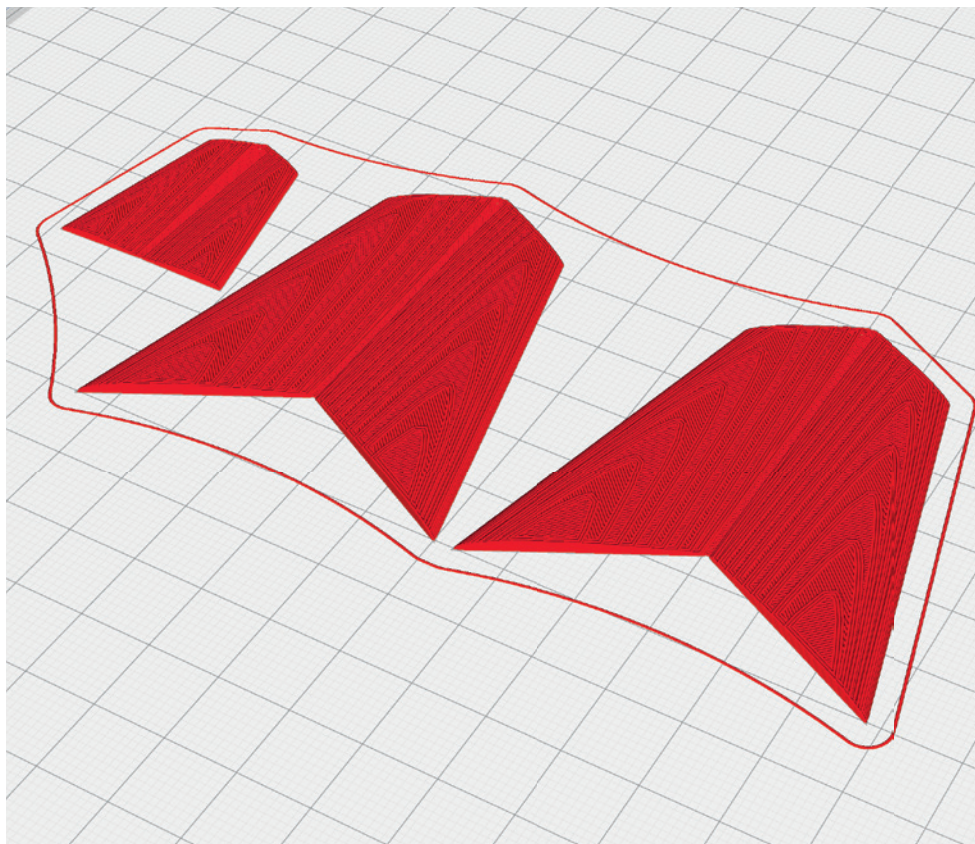## ADDITIONAL SETTINGS

None nessesery

PROFILE P1_FULLBODY

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

INFO

STL: st-Parts 1_profile1.stl
Material: PLA
Weight: ~ 3 g

ADDITIONAL SETTINGS

None nessesery

INFO

STL: st-Parts 2_profile1.stl
Material: PLA
Weight: ~ 16 g

ADDITIONAL SETTINGS

None nessesery

PROFILE P1_FULLBODY

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

INFO

STL: st-Parts 3_profile1.stl
Material: PLA
Weight: ~ 6 g

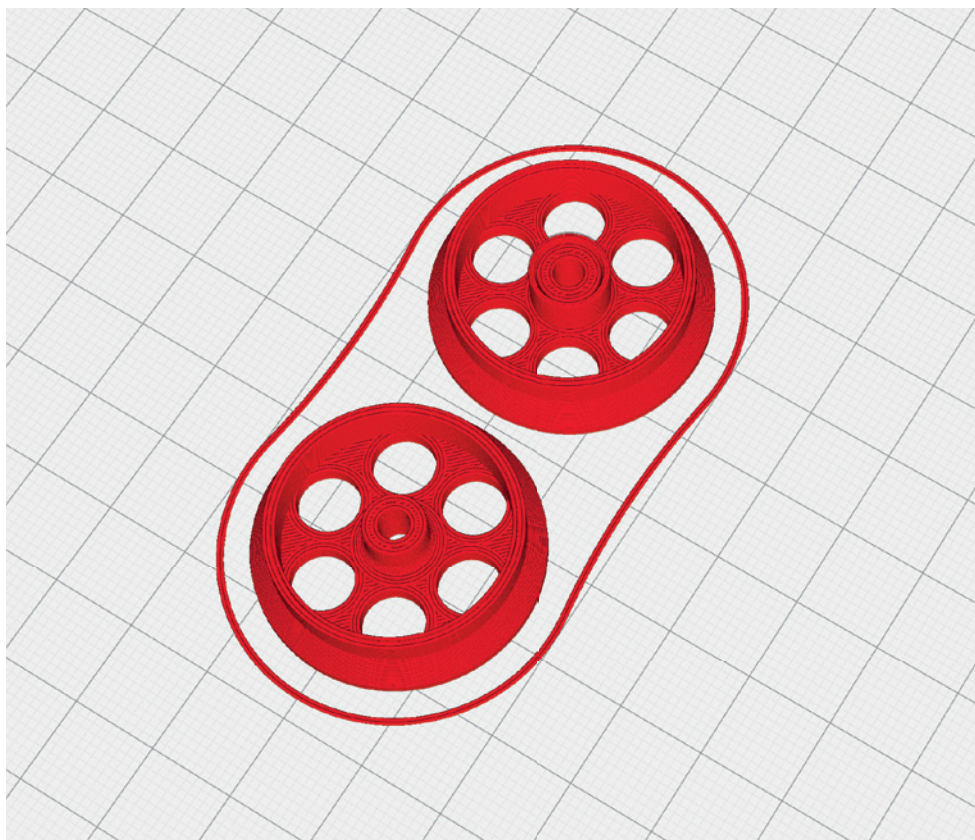### ADDITIONAL SETTINGS

• Layer Height 0.15 or less

INFO

STL: st-Rim_profile1.stl
Material: PLA
Weight: ~ 6 g

ADDITIONAL SETTINGS

• Print 3 times
  (You can also multiply it in Cura)

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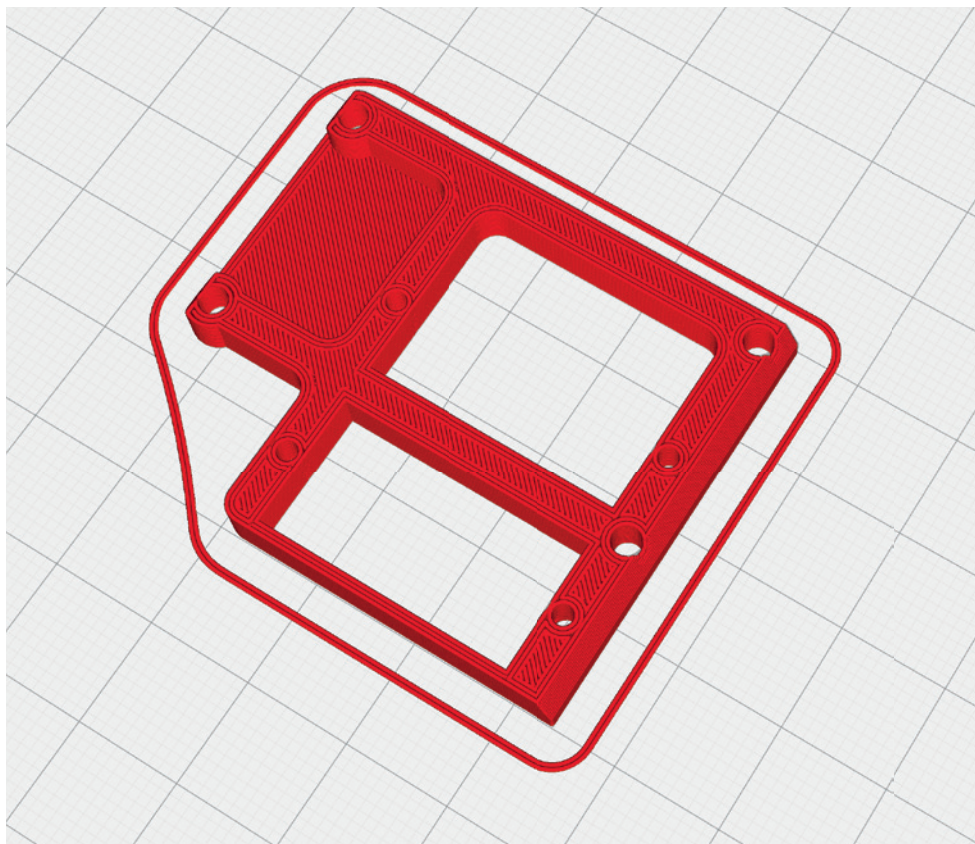
The following parts must be sliced with the profile P1_FULLBODY.
Recommended additional settings are listed in the screenshots.

INFO

STL: st-Servo mount-XX_profile1.stl
Material: PLA
Weight: ~ 4 g
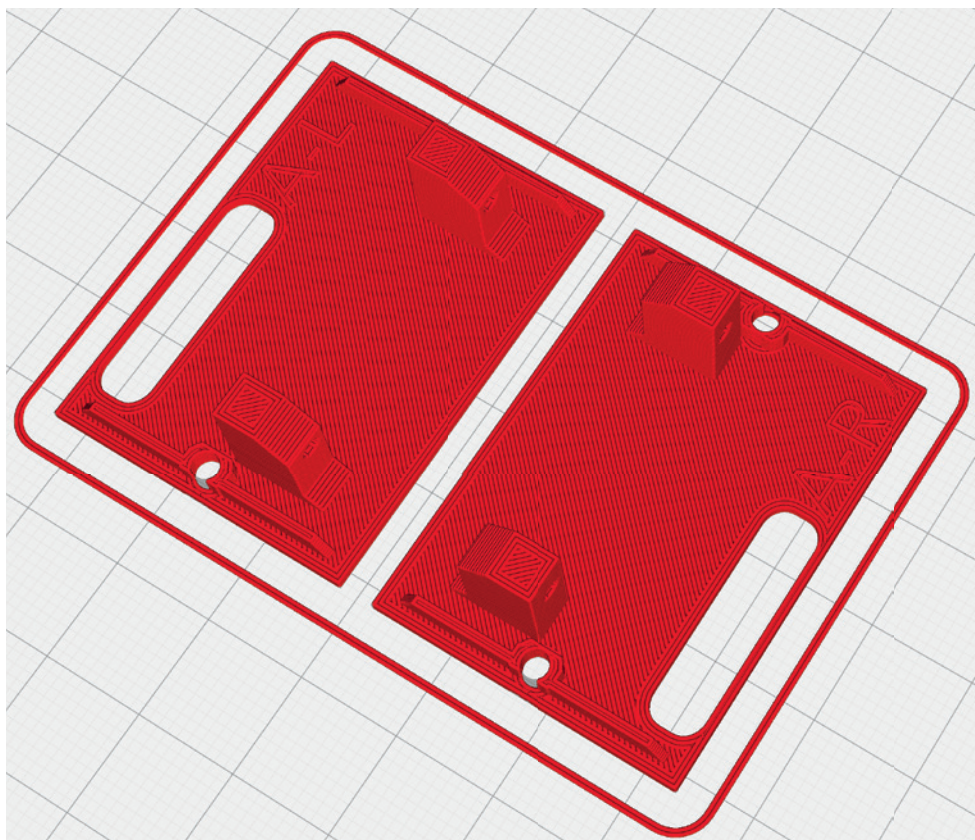
ADDITIONAL SETTINGS

• There are different versions

INFO

STL: st-Servocover-XX_profile1.stl
Material: PLA
Weight: ~ 5 g

ADDITIONAL SETTINGS
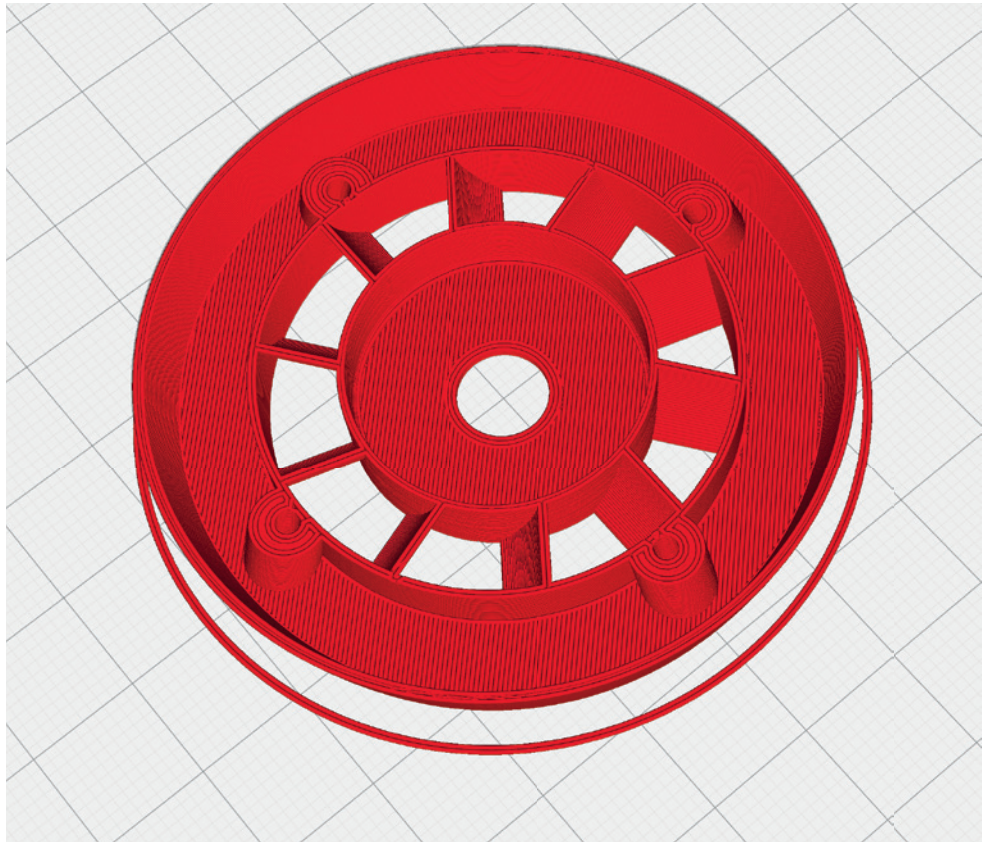
• There are different versions

PROFILE P1_FULLBODY

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

INFO

STL: st-Spinner-plate_profile1.stl
Material: PLA
Weight: ~ 8 g

ADDITIONAL SETTINGS

None nessesery
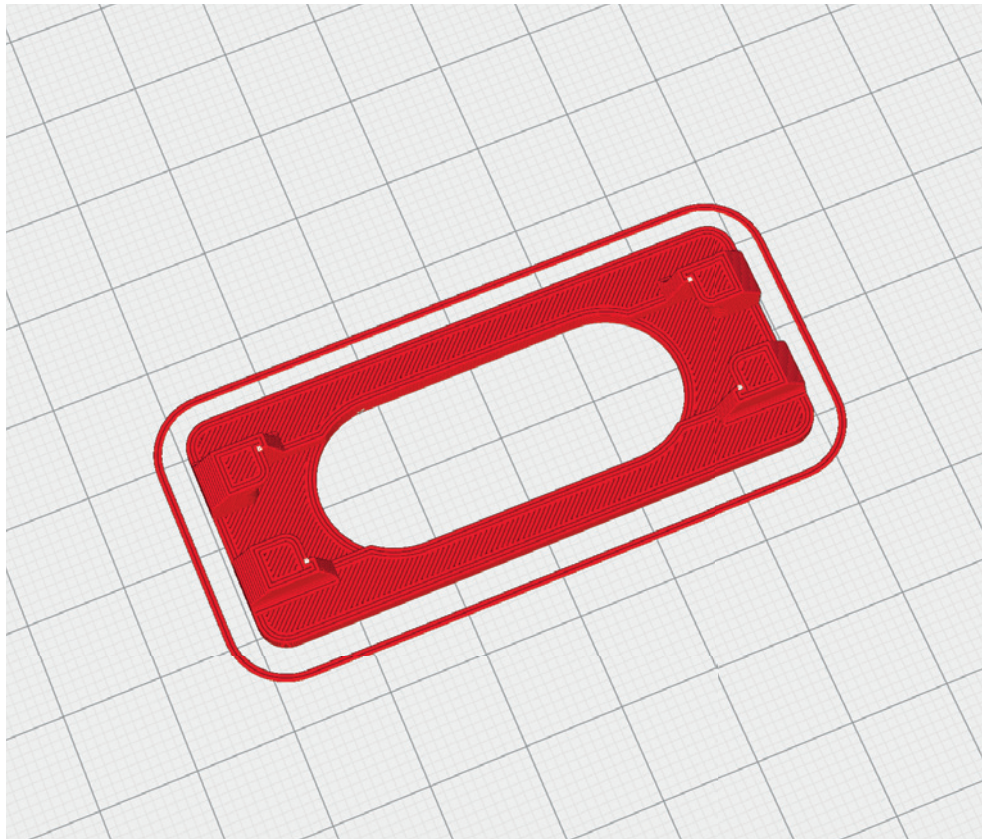

INFO

STL: st-Wingmount_profile1.stl
Material: PLA
Weight: ~ 3 g

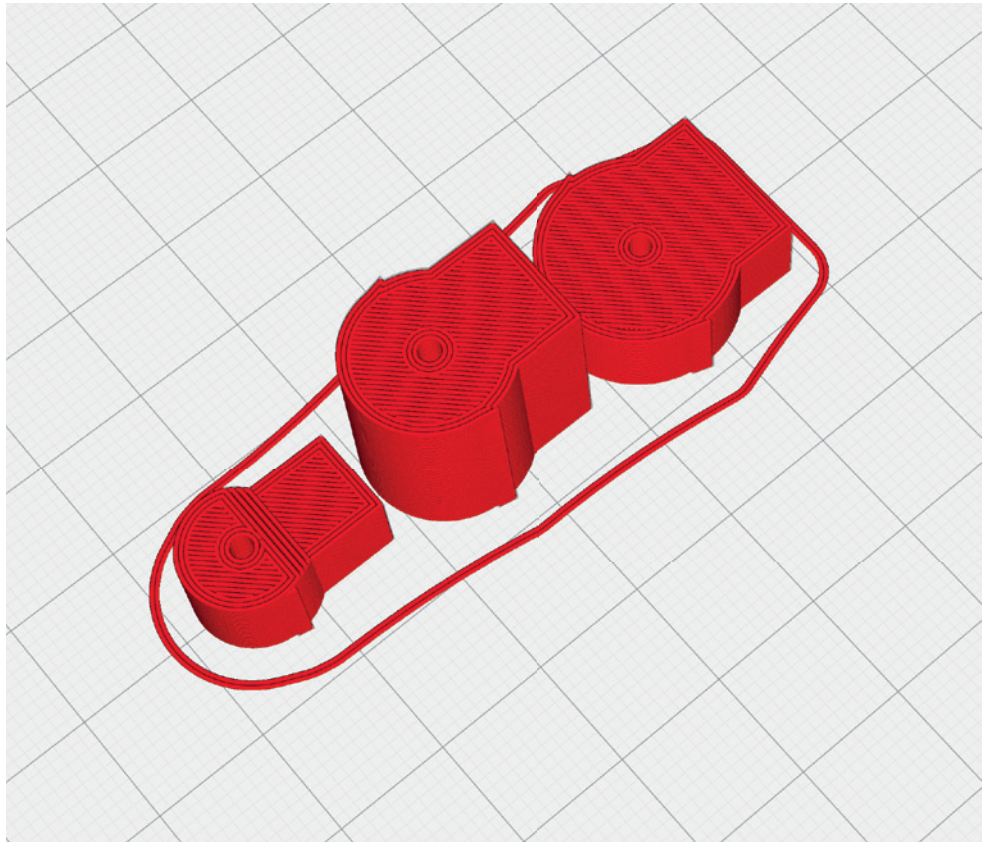## ADDITIONAL SETTINGS

None nessesery

PROFILE P2_HOLLOWBODY

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

INFO

STL: st-Rudder 4_profile2.stl
Material: PLA
Weight: ~ 4 g

ADDITIONAL SETTINGS

• Top Layers 3

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.

INFO

STL: st-Aileron-left_profile3.stl
st-Aileron-right_profile3.stl
Material: PLA
Weight: ~ 19 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Canopy 1_profile3.stl
Material: PLA
Weight: ~ 42 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.

INFO

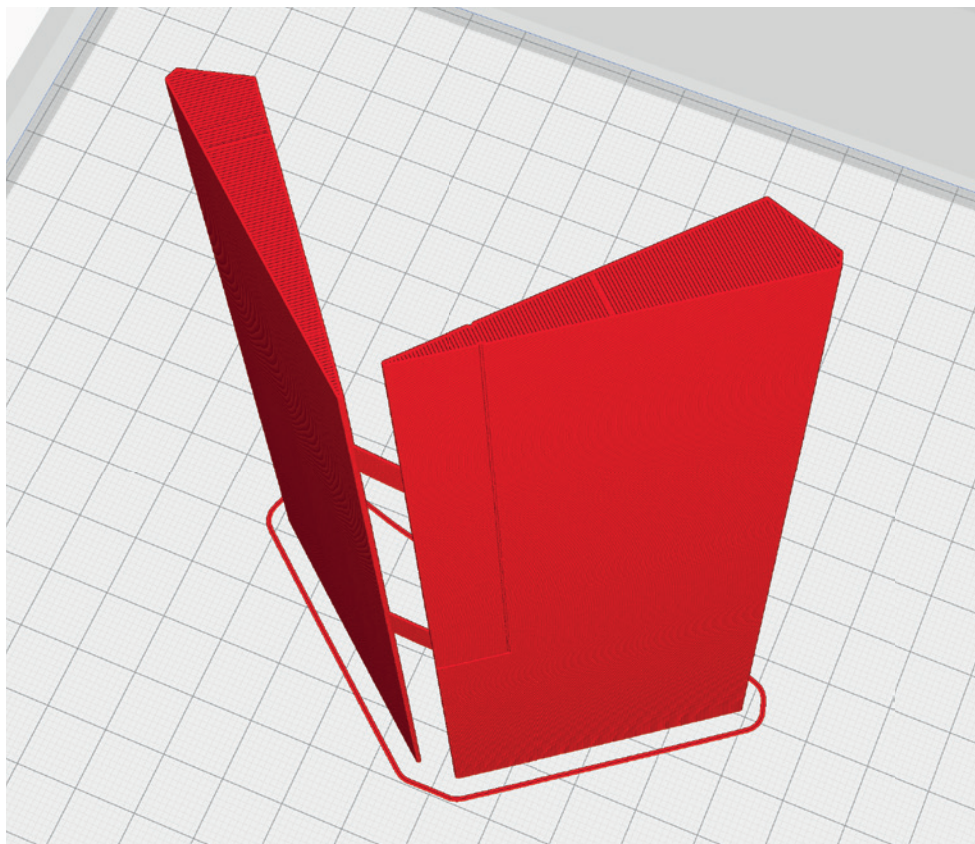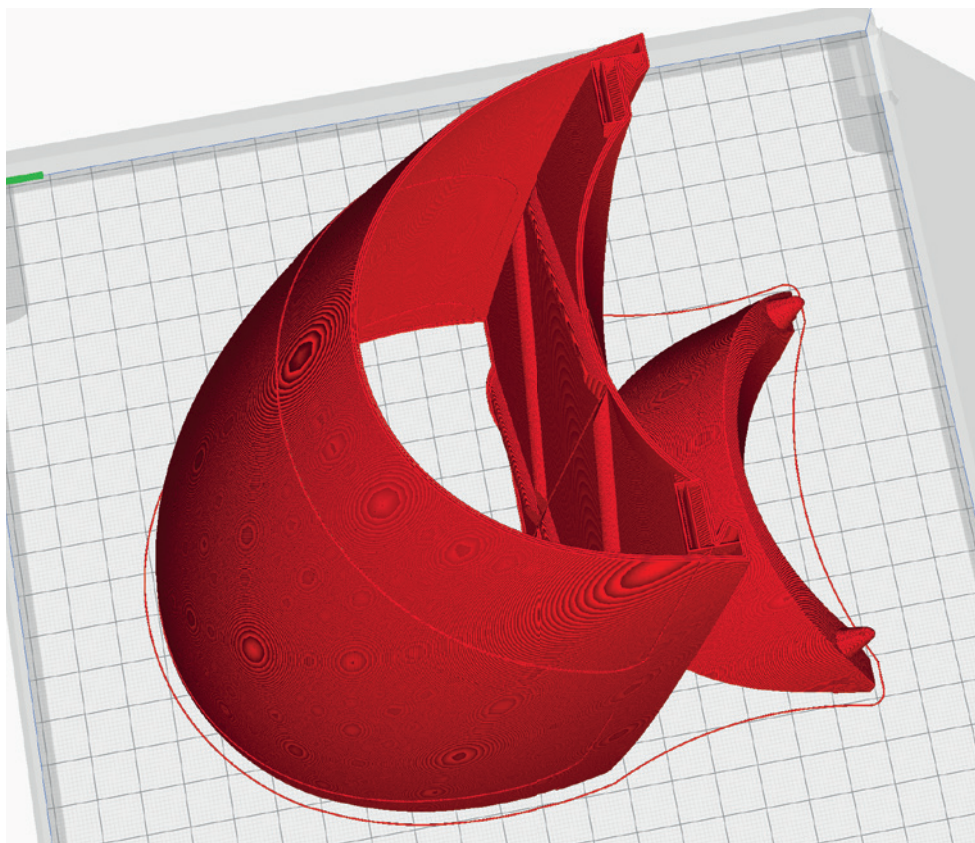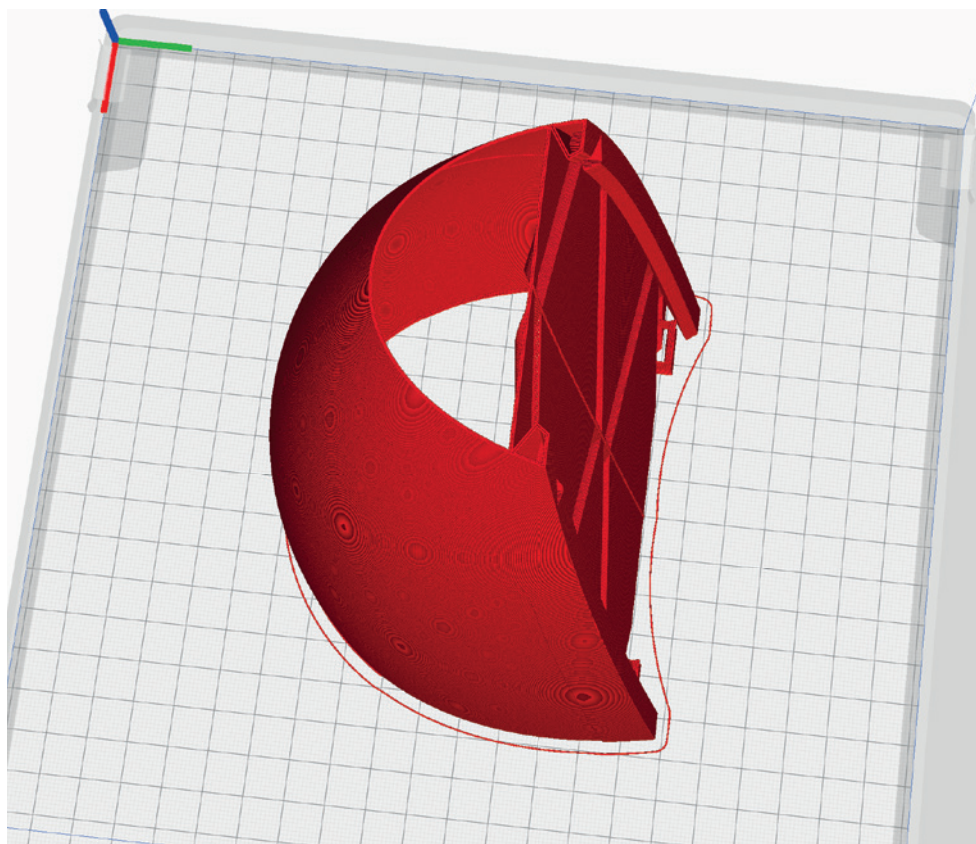STL: st-Canopy 2_profile3.stl
Material: PLA
Weight: ~ 31 g

ADDITIONAL SETTINGS

Reduce Nozzle heat a little and more fan around the nose.

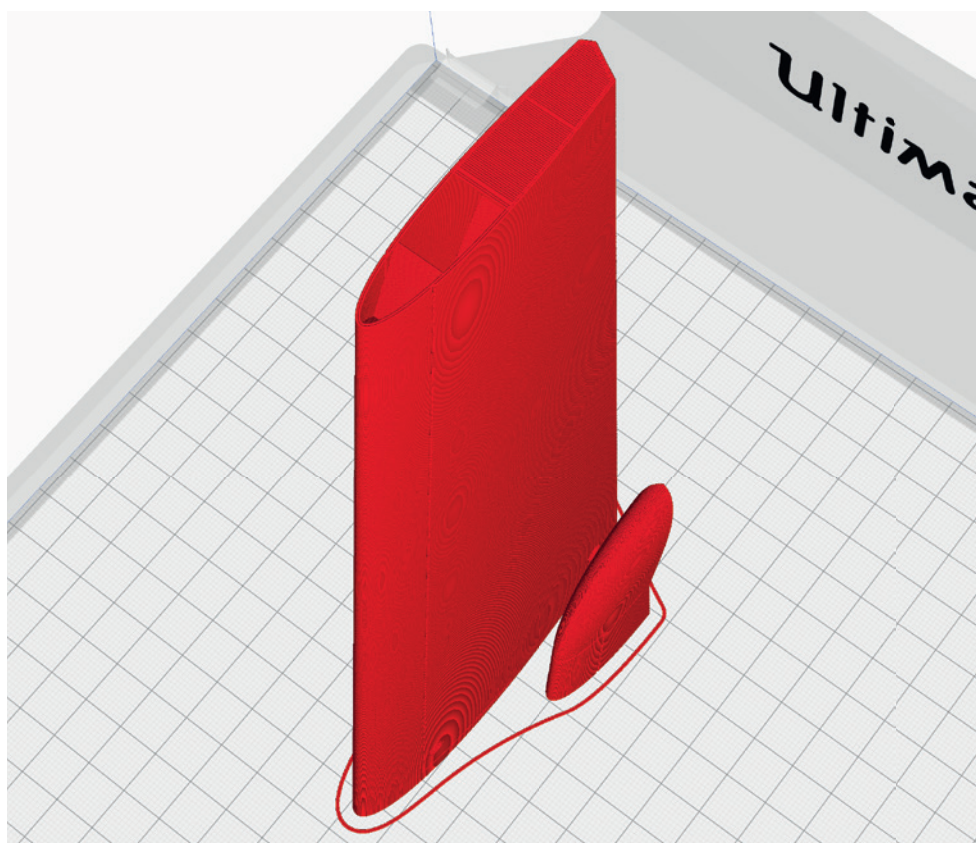Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Elevator 1-left_profile3.stl
       st-Elevator 1-right_profile3.stl
Material: PLA
Weight: ~ 25 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.

INFO

STL: st-Elevator 2-left_profile3.stl
st-Elevator 2-right_profile3.stl
Material: PLA
Weight: ~ 18 g

ADDITIONAL SETTINGS

E. left: • Z Seam Position right
E. right: • Z Seam Position left

Depending on your printer,
a **brim** may not be nessesery.

INFO

STL: st-Fuselage 1_profile3.stl
Material: PLA
Weight: ~ 59 g

ADDITIONAL SETTINGS

Depending on your printer,
a **brim** may not be nessesery.

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!
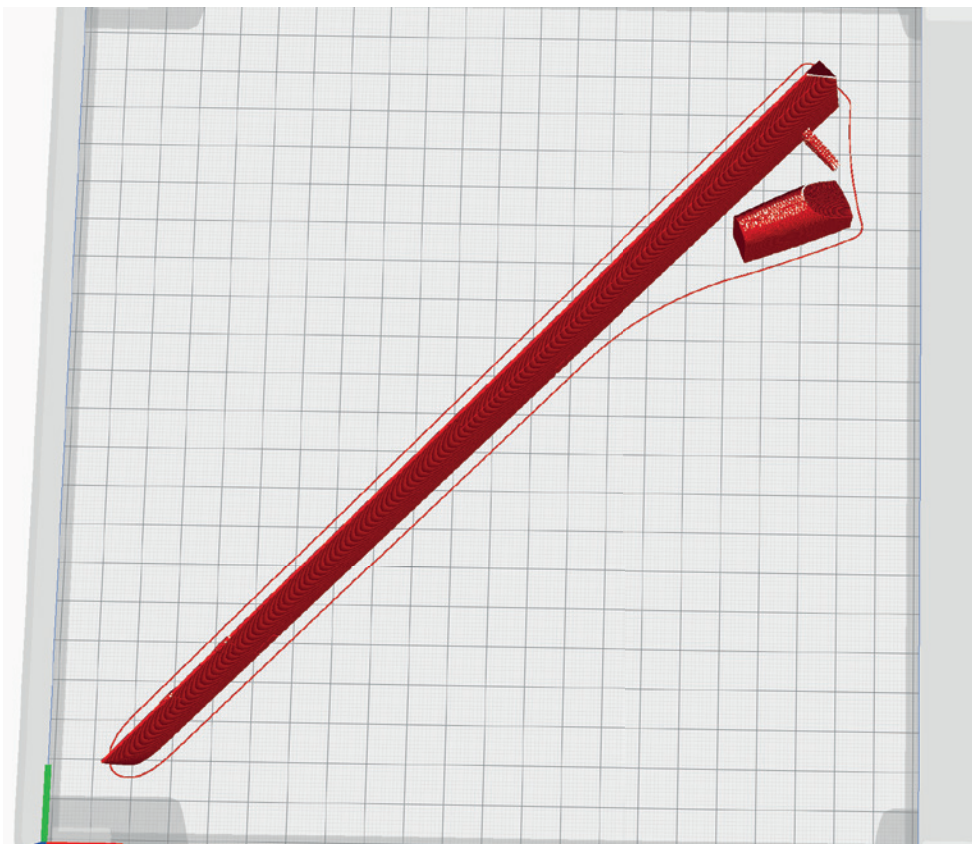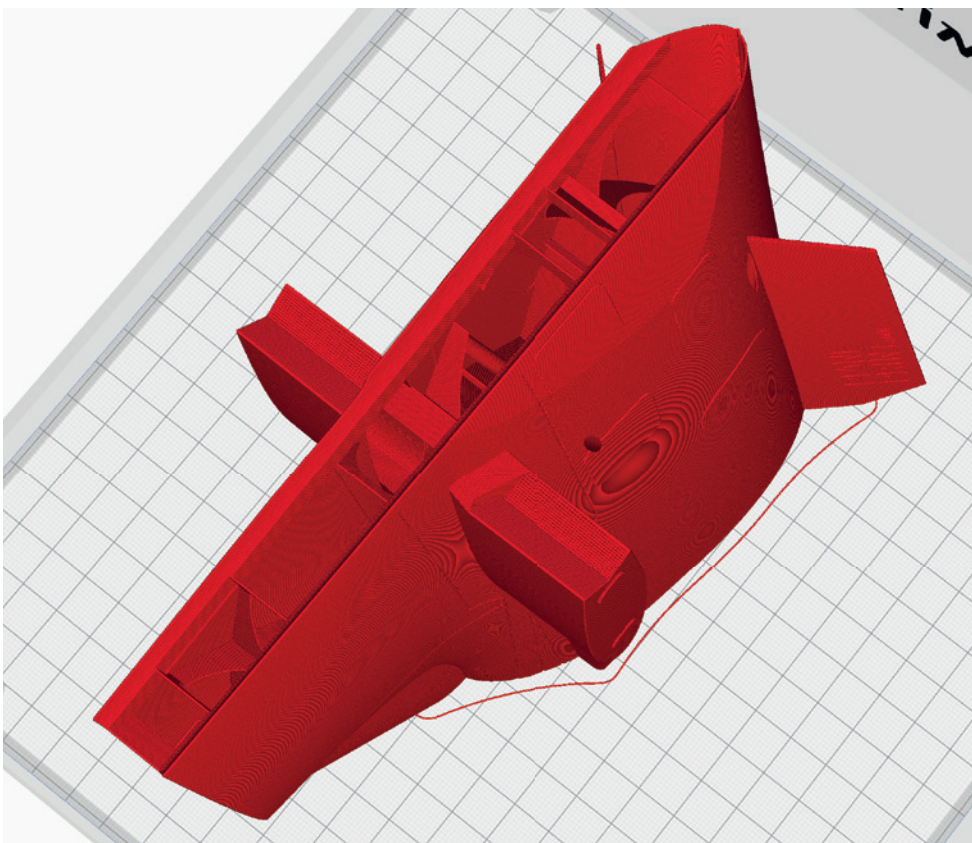
INFO

STL: st-Fuselage 2_profile3.stl
Material: PLA
Weight: ~ 60 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Fuselage 3_profile3.stl
Material: PLA
Weight: ~ 66 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.
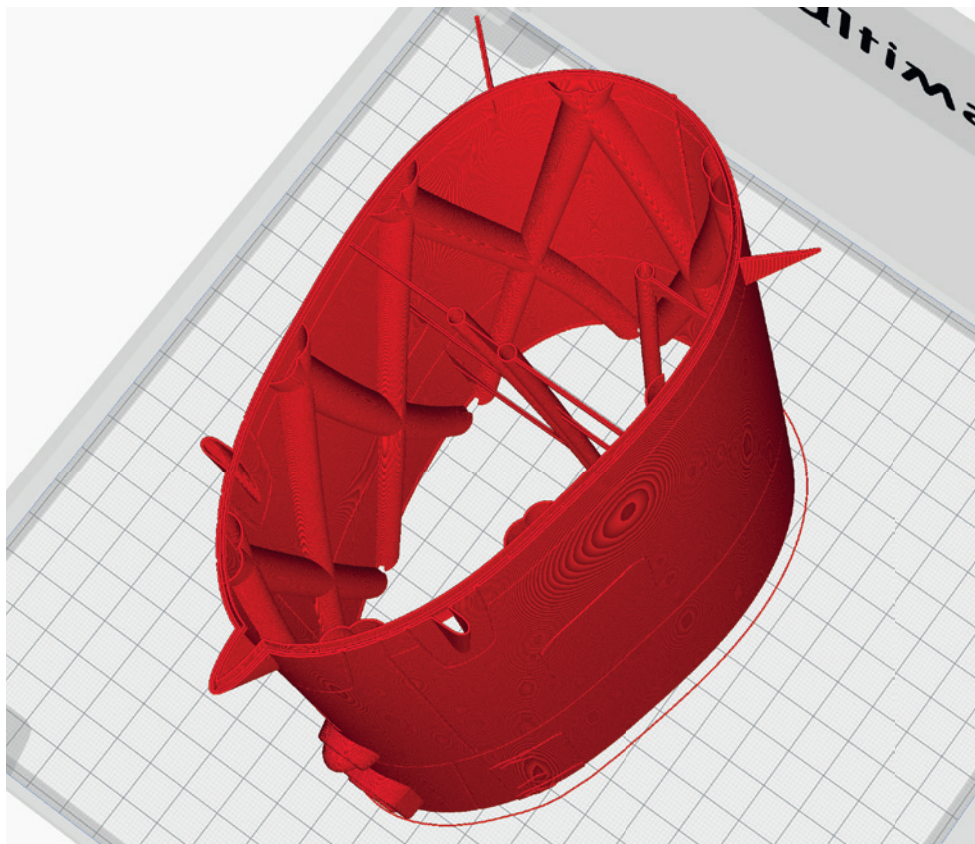
INFO

STL: st-Fuselage 4_profile3.stl
Material: PLA
Weight: ~ 88 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.
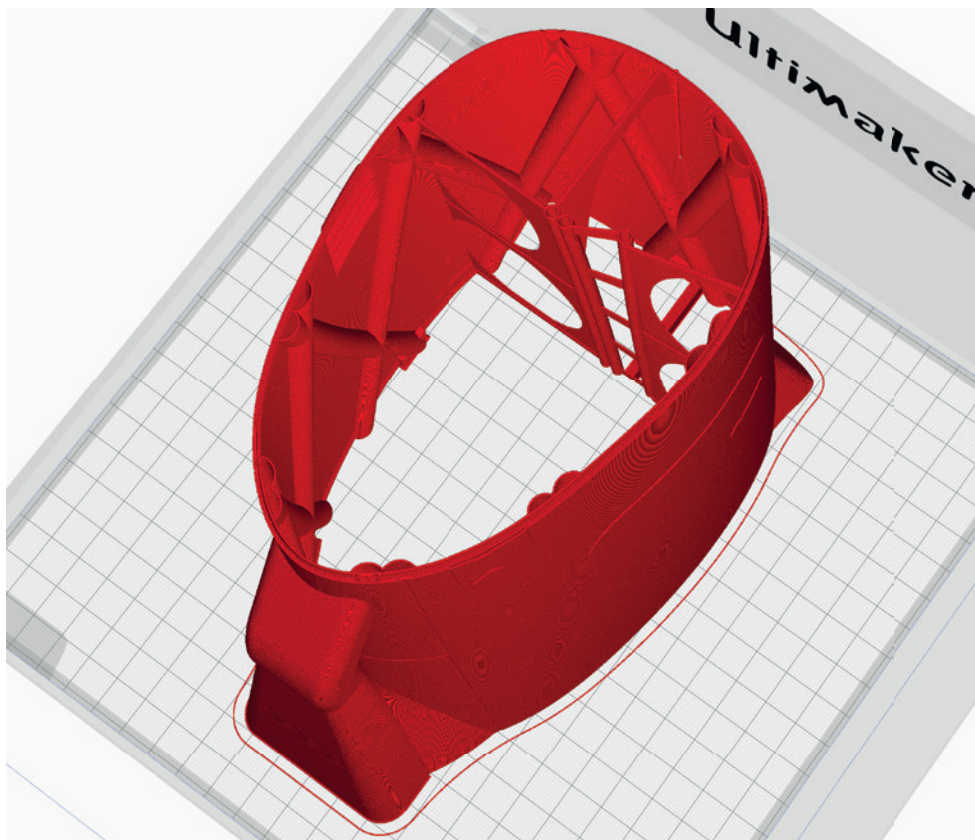

INFO

STL: st-Fuselage 5_profile3.stl
Material: PLA
Weight: ~ 84 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.

INFO

STL: st-Fuselage 6_profile3.stl
Material: PLA
Weight: ~ 89 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Fuselage 7_profile3.stl
Material: PLA
Weight: ~ 23 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.

INFO

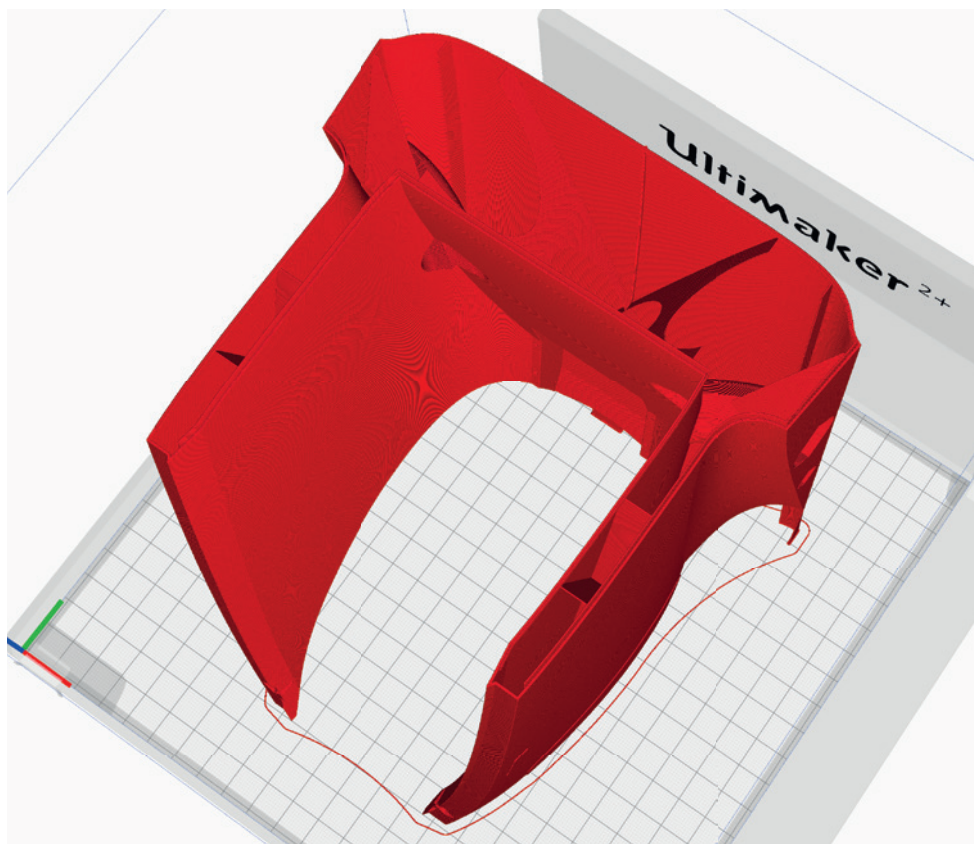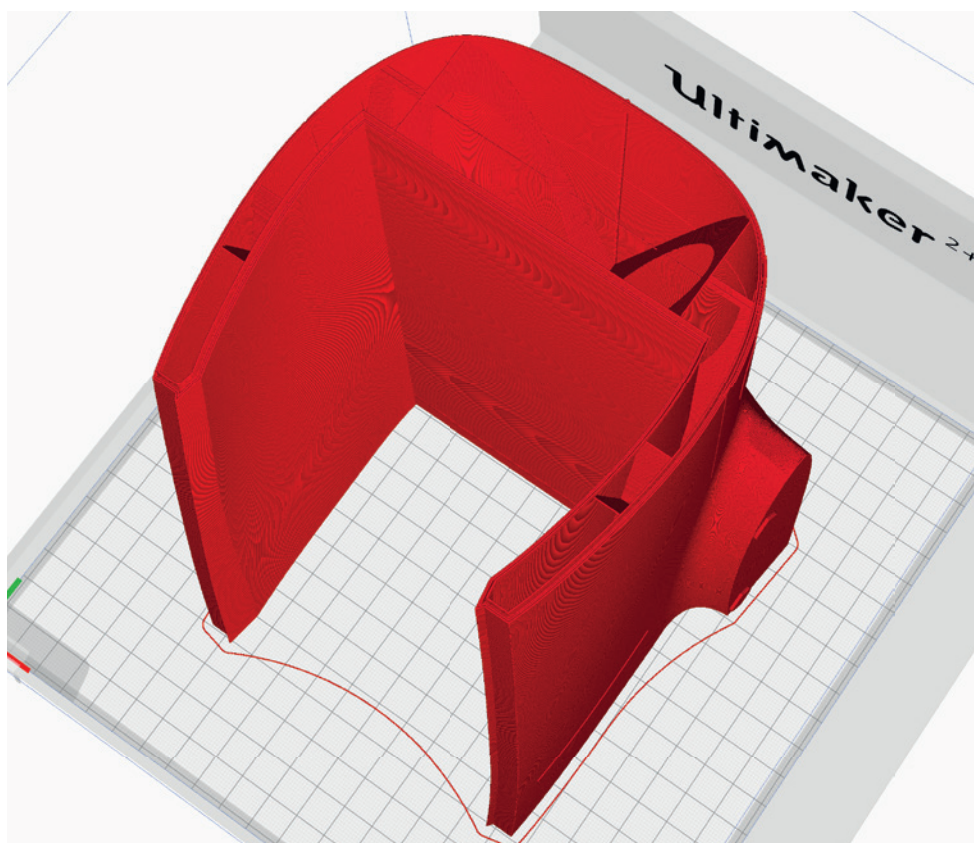STL: st-Pipes_profile3.stl
Material: PLA
Weight: ~ 5 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Rudder 1_profile3.stl
Material: PLA
Weight: ~ 17 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.
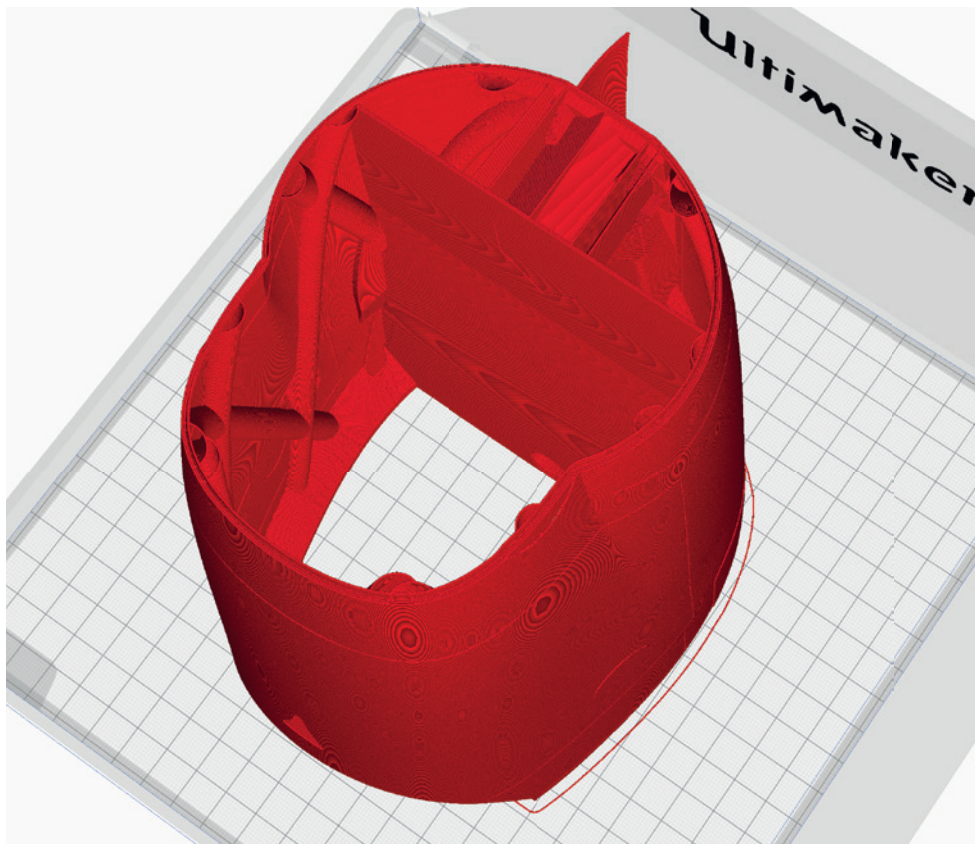
INFO

STL: st-Rudder 2_profile3.stl
Material: PLA
Weight: ~ 21 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.
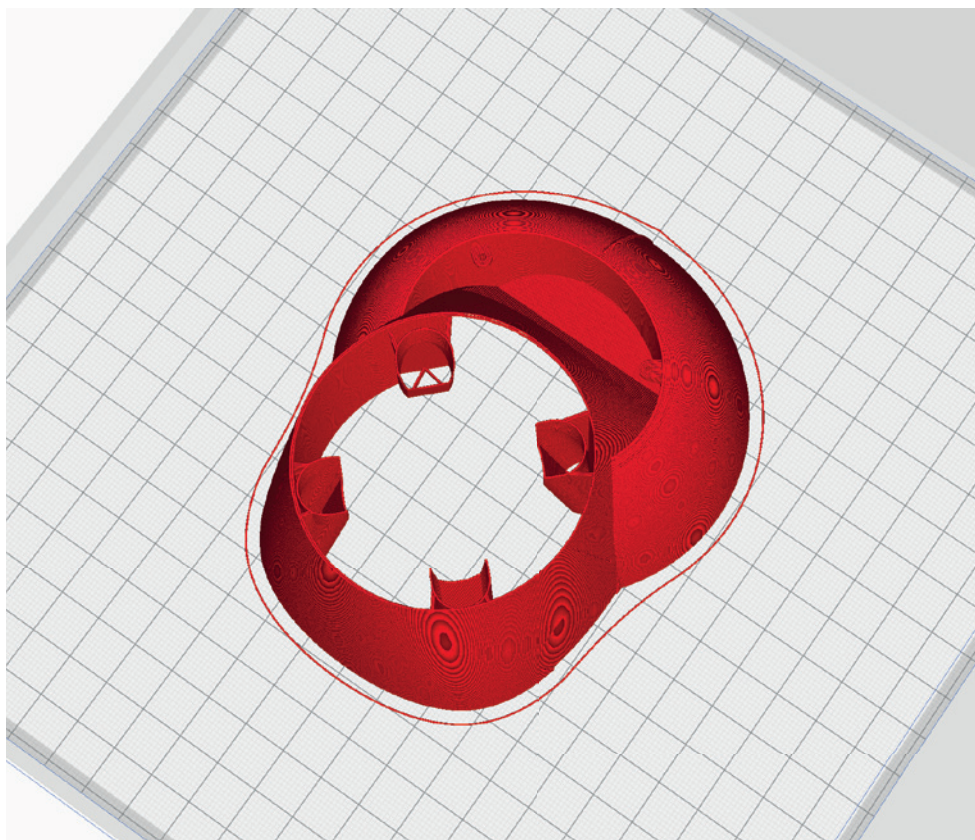

INFO

STL: st-Rudder 3_profile3.stl
Material: PLA
Weight: ~ 20 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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.

INFO

STL: st-Spinner_profile3.stl
Material: PLA
Weight: ~ 8 g

ADDITIONAL SETTINGS

None nessesery

INFO

STL: st-Wing 1-left_profile3.stl
     st-Wing 1-right_profile3.stl
Material: PLA
Weight: ~ 106 g

ADDITIONAL SETTINGS

Depending on your printer,
a **brim** may not be nessesery.

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.
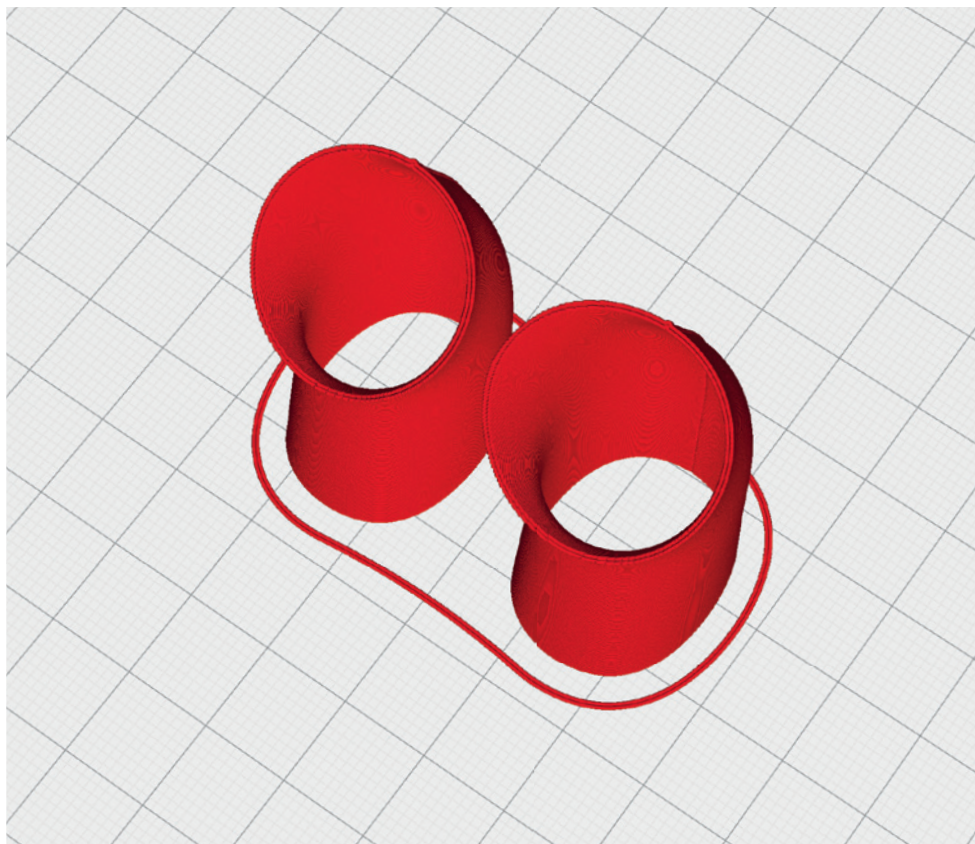
INFO

STL: st-Wing 2-left_profile3.stl
      st-Wing 2-right_profile3.stl
Material: PLA
Weight: ~ 60 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

INFO

STL: st-Wing 3-both_profile3.stl
Material: PLA
Weight: ~ 66 g

ADDITIONAL SETTINGS
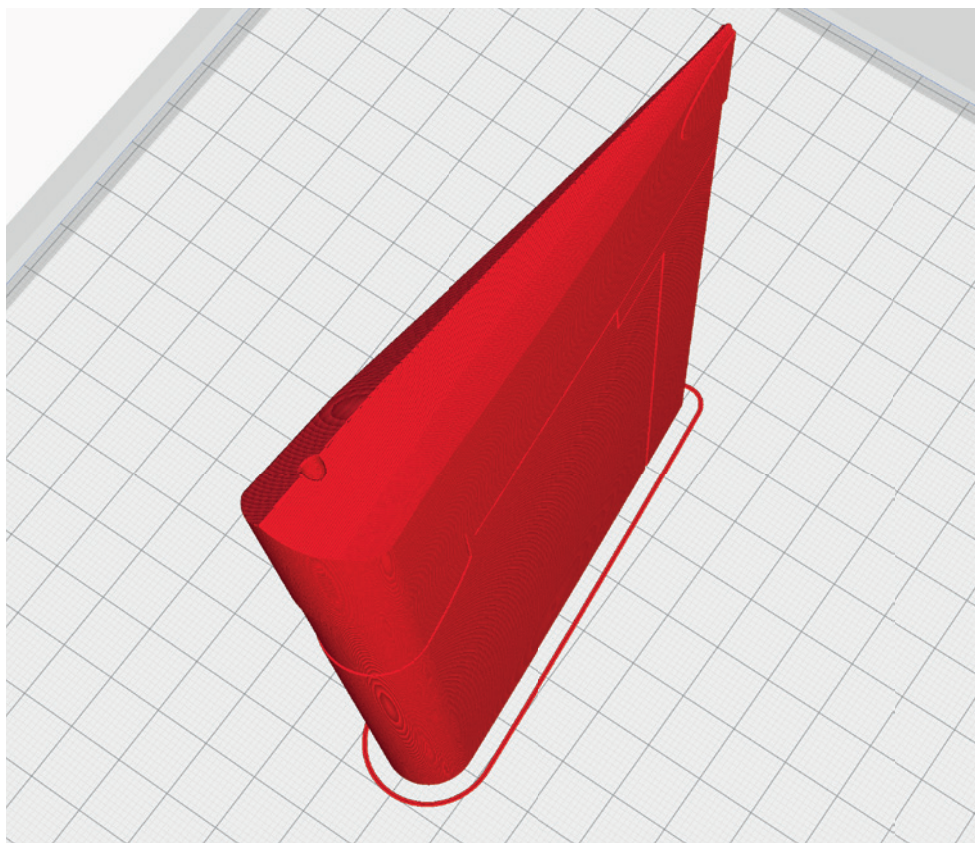
Depending on your printer, a **brim** may not be nessesery.

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.

INFO

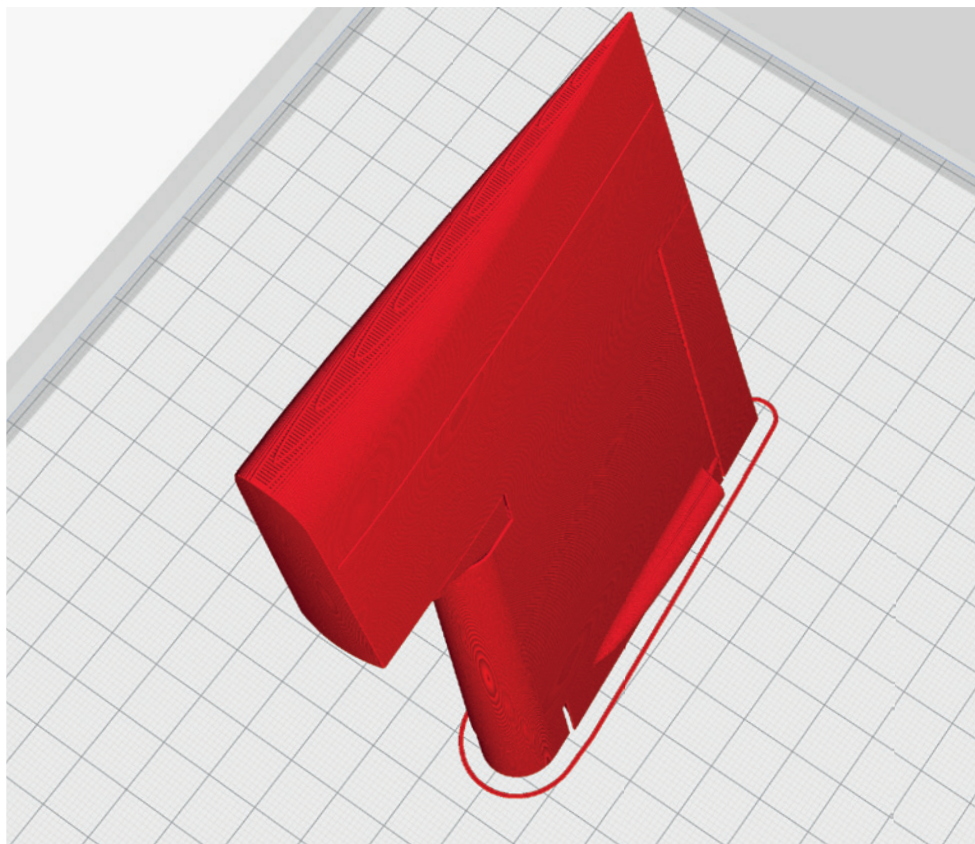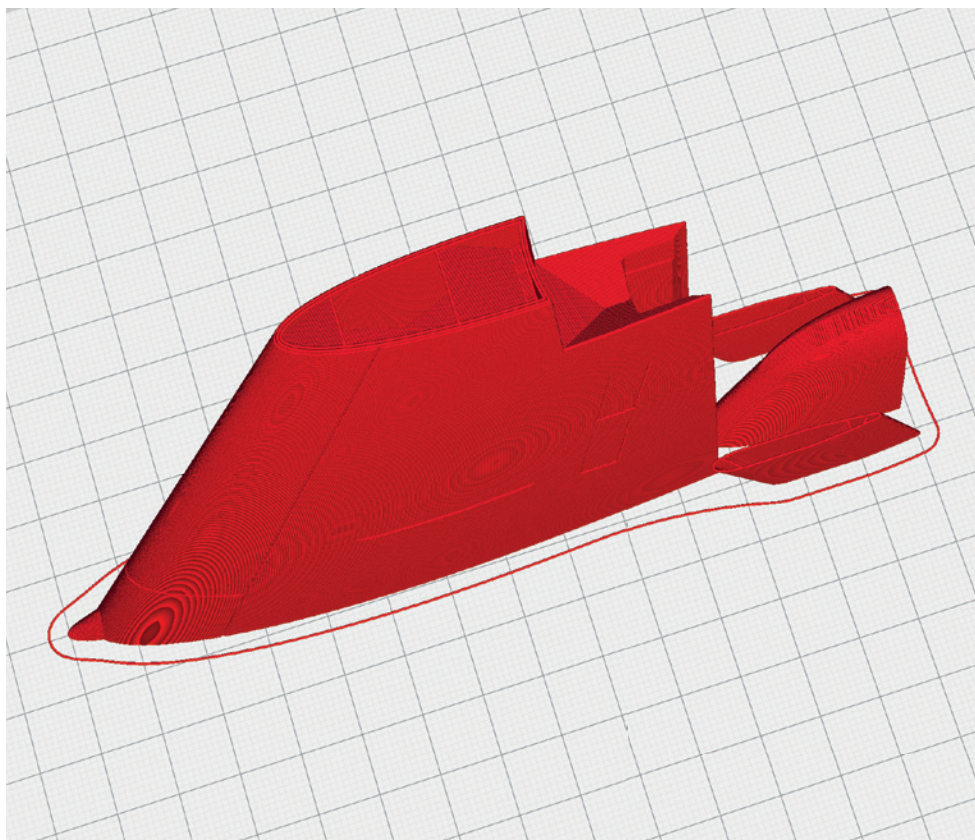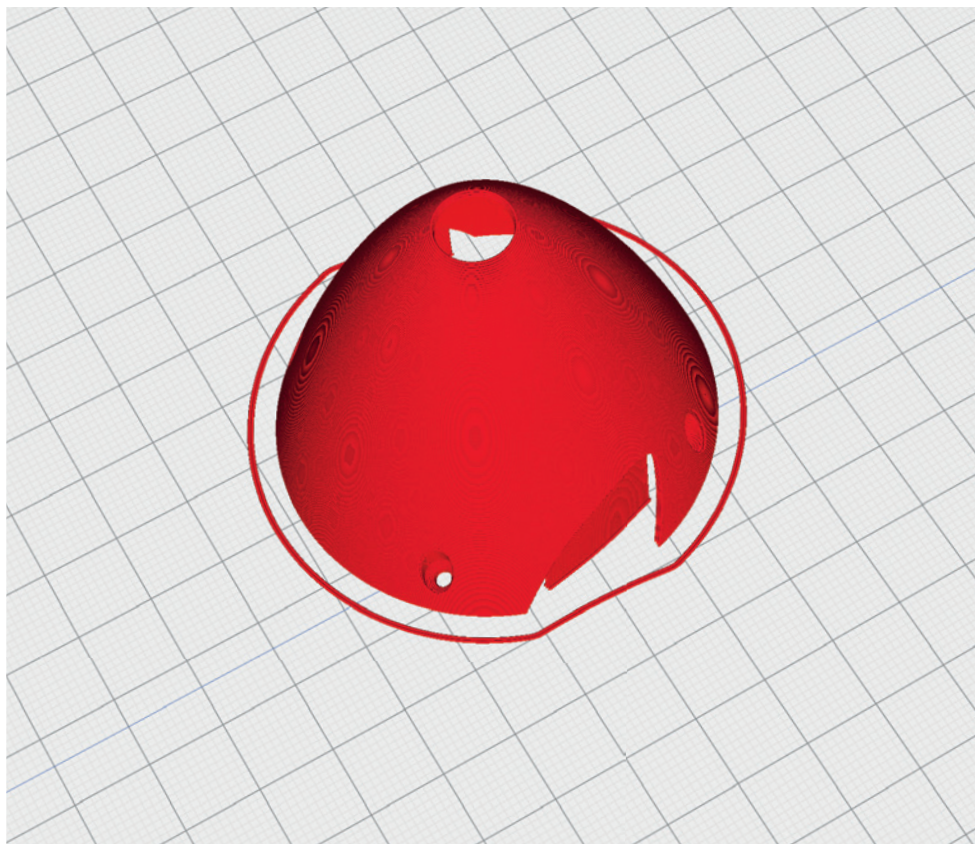STL: st-Wingtips_profile3.stl
Material: PLA
Weight: ~ 6 g

ADDITIONAL SETTINGS

Depending on your printer, a **brim** may not be nessesery.

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: st-Gear flex_profile4.stl
Material: TPU soft
Weight: ~ 19 g

ADDITIONAL SETTINGS

• Wall Line Count 8
• Infill Density 100 %

INFO

STL: st-Hinges_profile4.stl
Material: TPU soft
Weight: ~ 1 g

ADDITIONAL SETTINGS
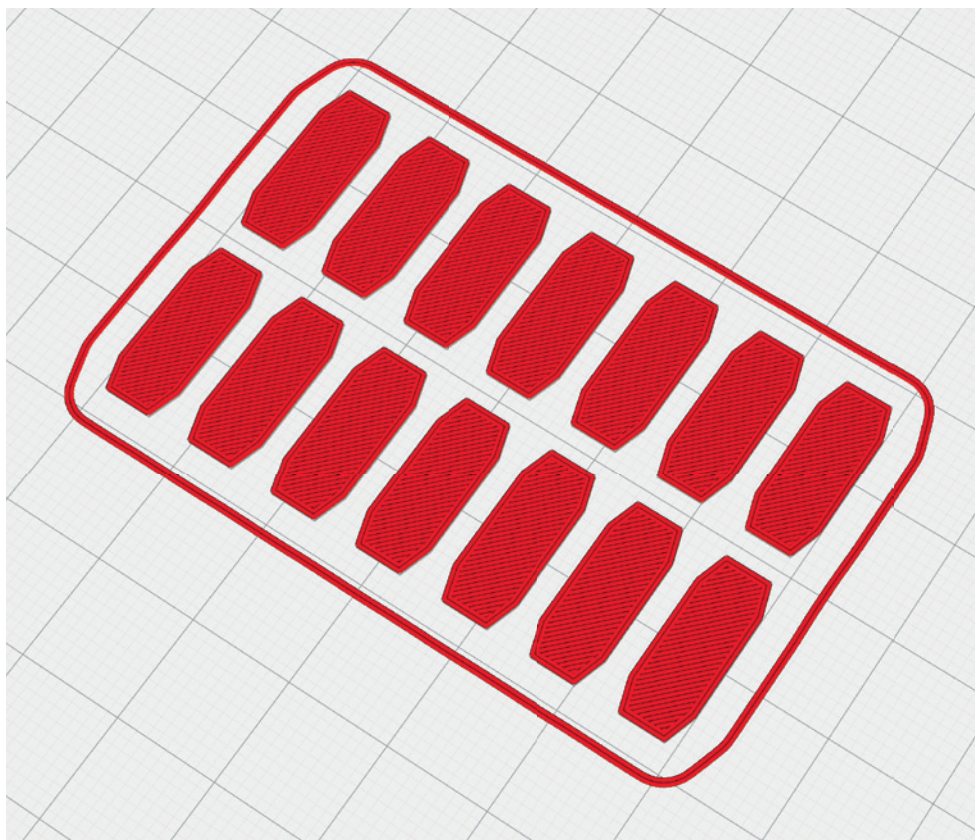
None nessesery

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: st-Tire main_profile4.stl
Material: TPU soft
Weight: ~ 16 g

ADDITIONAL SETTINGS

• Wall Line Count 3
• Top Layers 4
• Bottom Layers 4
• Infill Density 15 %
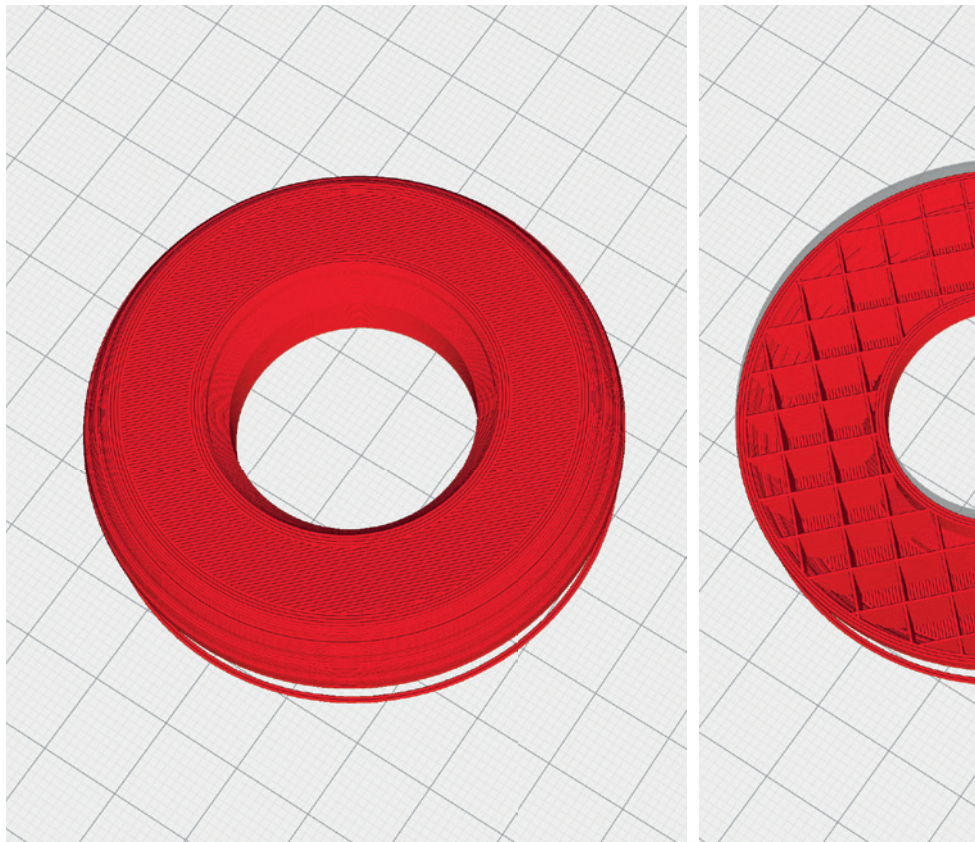
INFO

STL: st-Tire front_profile4.stl
Material: TPU soft
Weight: ~ 16 g

ADDITIONAL SETTINGS

• Wall Line Count 3
• Top Layers 4
• Bottom Layers 4
• 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.
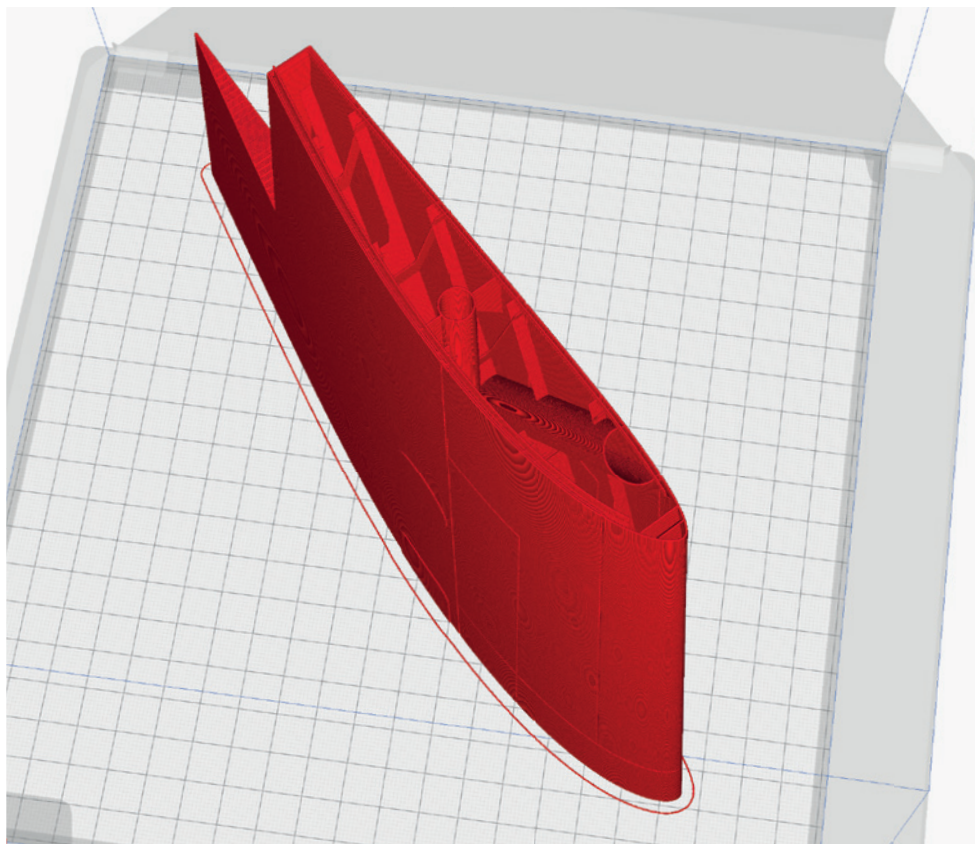
INFO

STL: st-Tension belt_profile4.stl
Material: TPU soft
Weight: ~ 3 g

ADDITIONAL SETTINGS

• Wall Line Count 10
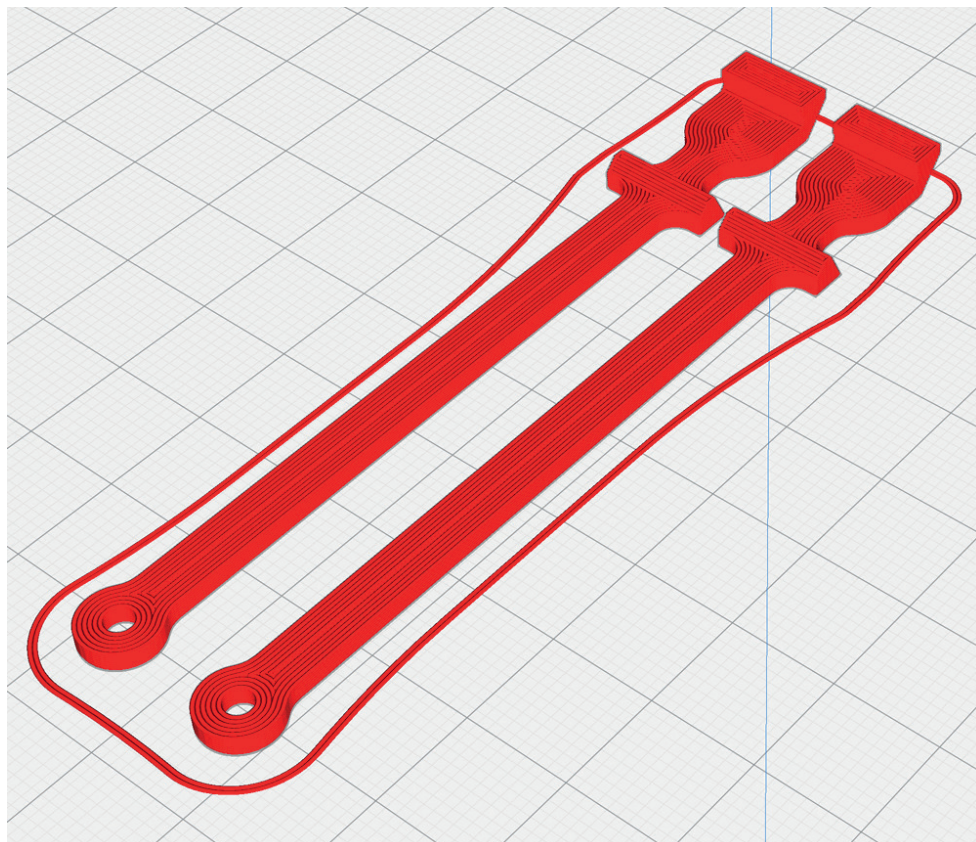
Tension belt lenght
In the folder Individual parts you will find the tension belts also as a single file. If you want to change them slightly in length, you can simply change the dimension of the X-axis in Cura (Uniform scaling must NOT be selected).
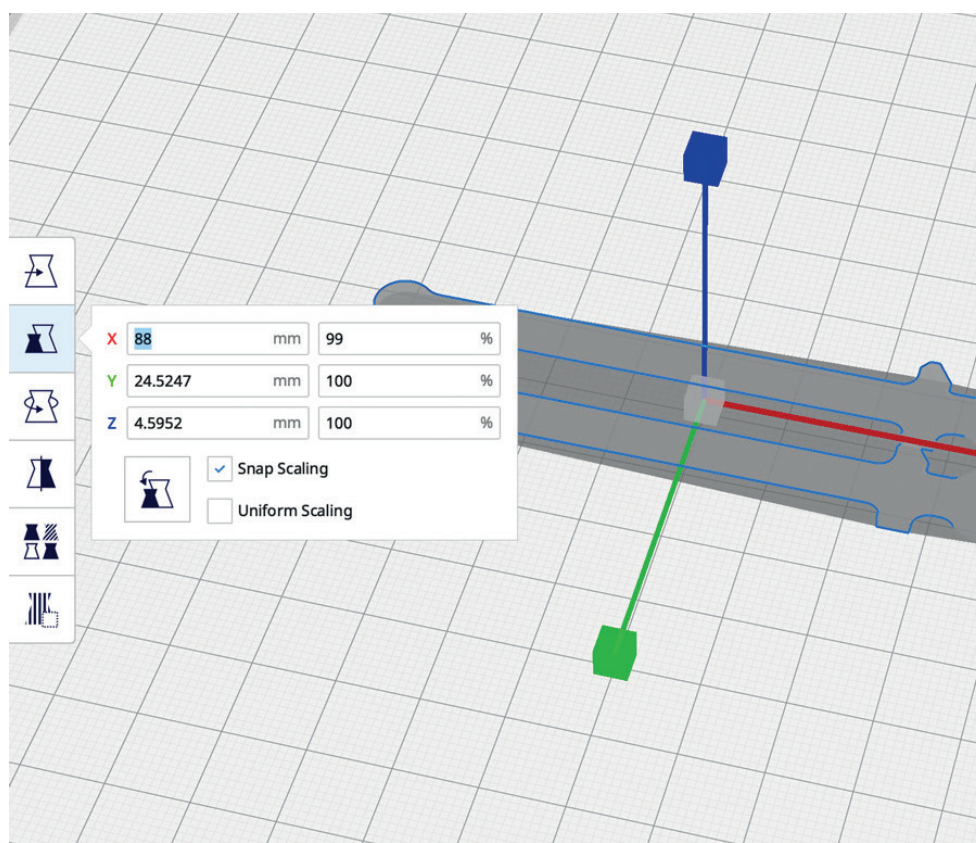
NESSESERY ACCESSORIES

MATERIALS

- some tapping screws Ø2mm

2 mm

- CA super glue, liquid and liquid medium
- Activator
- servo extension cable   2 Pieces
- Steel rod Ø1mm   1 Piece
- Carbon rod Ø1,5*1000mm   3 Pieces
- Carbon rod Ø4mm   1 Piece
- Carbon tube Ø6*1000mm   2 Pieces
- Carbon tube Ø8*1000mm   1 Piece

- Neodym-Super-Magnet
  5x5x5mm   4 Pieces

- rod connection   7 Pieces

2 mm
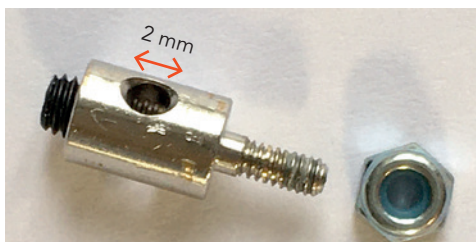
- Self-adhesive velcro tape

TOOLS

- Cutter knife
- Philips screwdriver
- Drill Ø8mm, Ø4mm, Ø2mm, Ø1,5mm

RC COMPONENTS

Servo 5 Pieces*:   • EMAX ES08A or Hitec HS-55

max. 22,5 mm   max. 12 mm
(0.88 inches)   (0.47 inches)
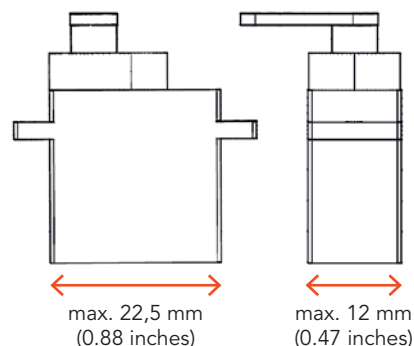
* or 4 if rudder and front wheel are connected with a V-cable.

Engine (3S-setting):   Hacker A30-10XL V4 (177 grams)

Ø max. 38 mm
(1.5 inches)
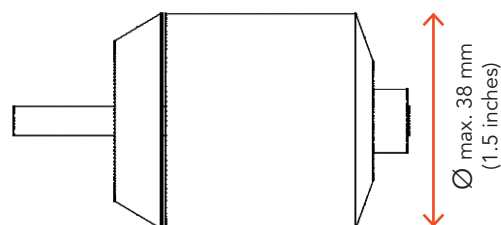
BEC-Controller: 3S, min. 55A, BEC
Prop: APC 12*6
Battery pack: 3S LiPo-Akku 2.700 mAh (200 grams)

You can also use a more powerful engine (in the 3s-setting you need some lead in front to keep the CG).

Engine (4S-setting):   4S 60amp ESC 3548 1100kv
Prop: APC 12*6

TIPP

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!

CA
medium l.

CA
medium l.

Connections

This surfaces should be sanded

Assembly of the wings

Wing1

Carbon tube Ø6mm
Lengh 500 mm/19.6 inches

The Carbon tube does **not** have to be glued to the wing.

CA medium l.

Wing2

CA liquid

Aileron

CA liquid

CA medium l.

st-Parts 1_profile1.stl

Hinges

CA medium l.

Wing3

CA liquid

CA medium l.

CA medium l.
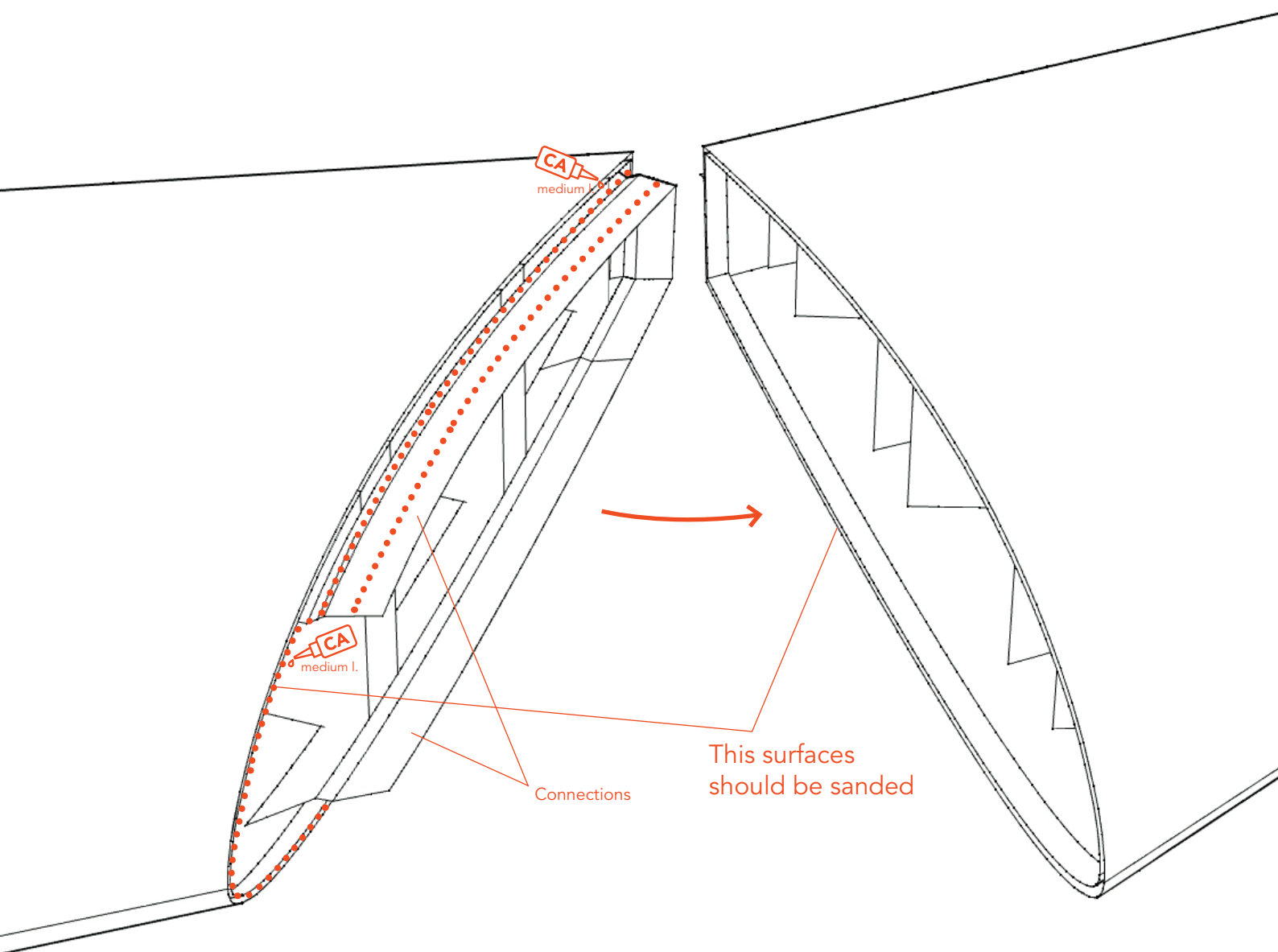
Wingtips
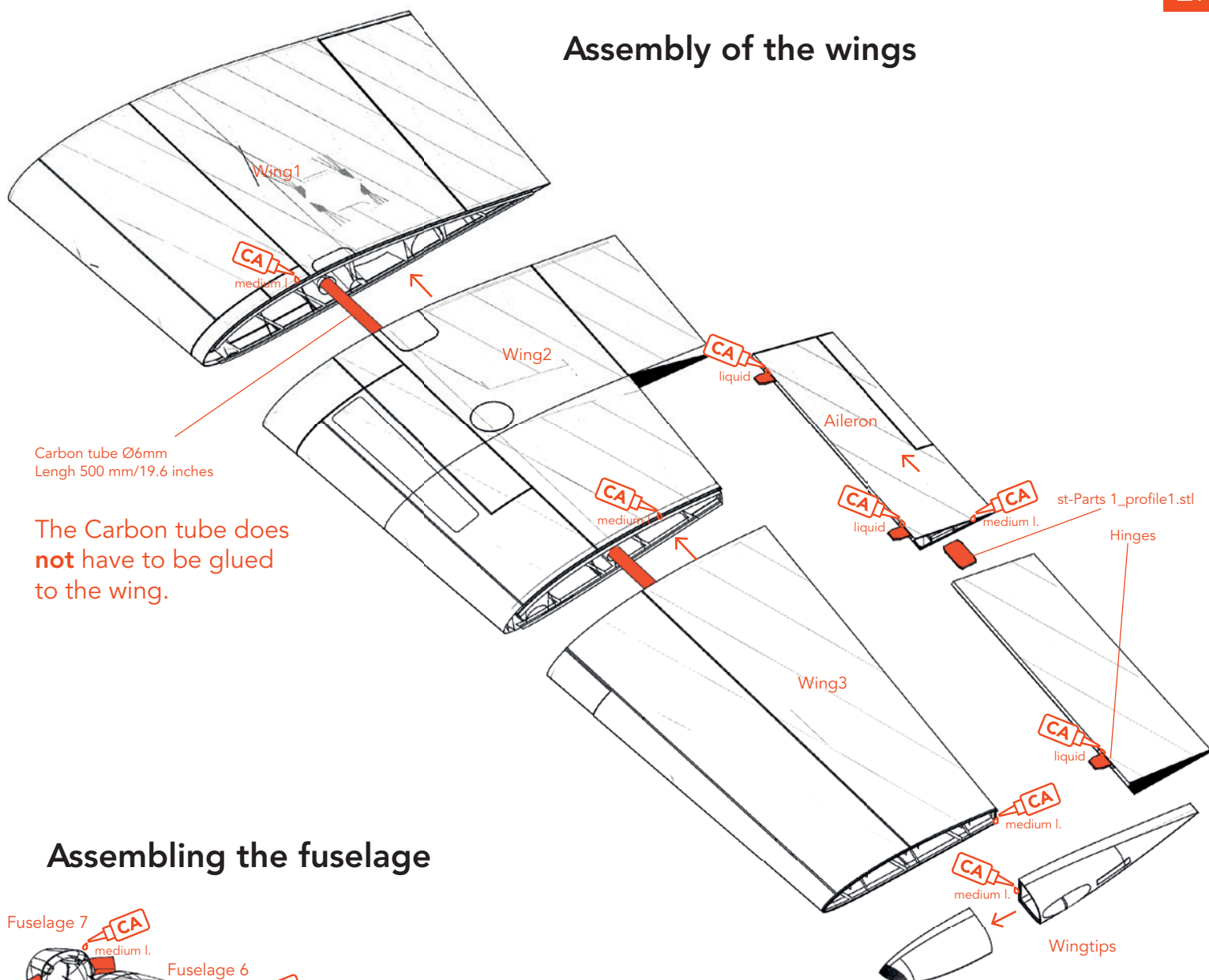
Assembling the fuselage

Fuselage 7

CA medium l.

Fuselage 6

CA medium l.

Fuselage 5

CA medium l.

Fuselage 4

CA medium l.

st-Pipes_profile3.stl

Fuselage 3

CA medium l.

st-Parts 1_profile1.stl

Fuselage 2

CA medium l.

Fuselage 1

CA medium l.

st-Parts 3_profile1.stl

fold

CA

The Bowden must **not** be glued!
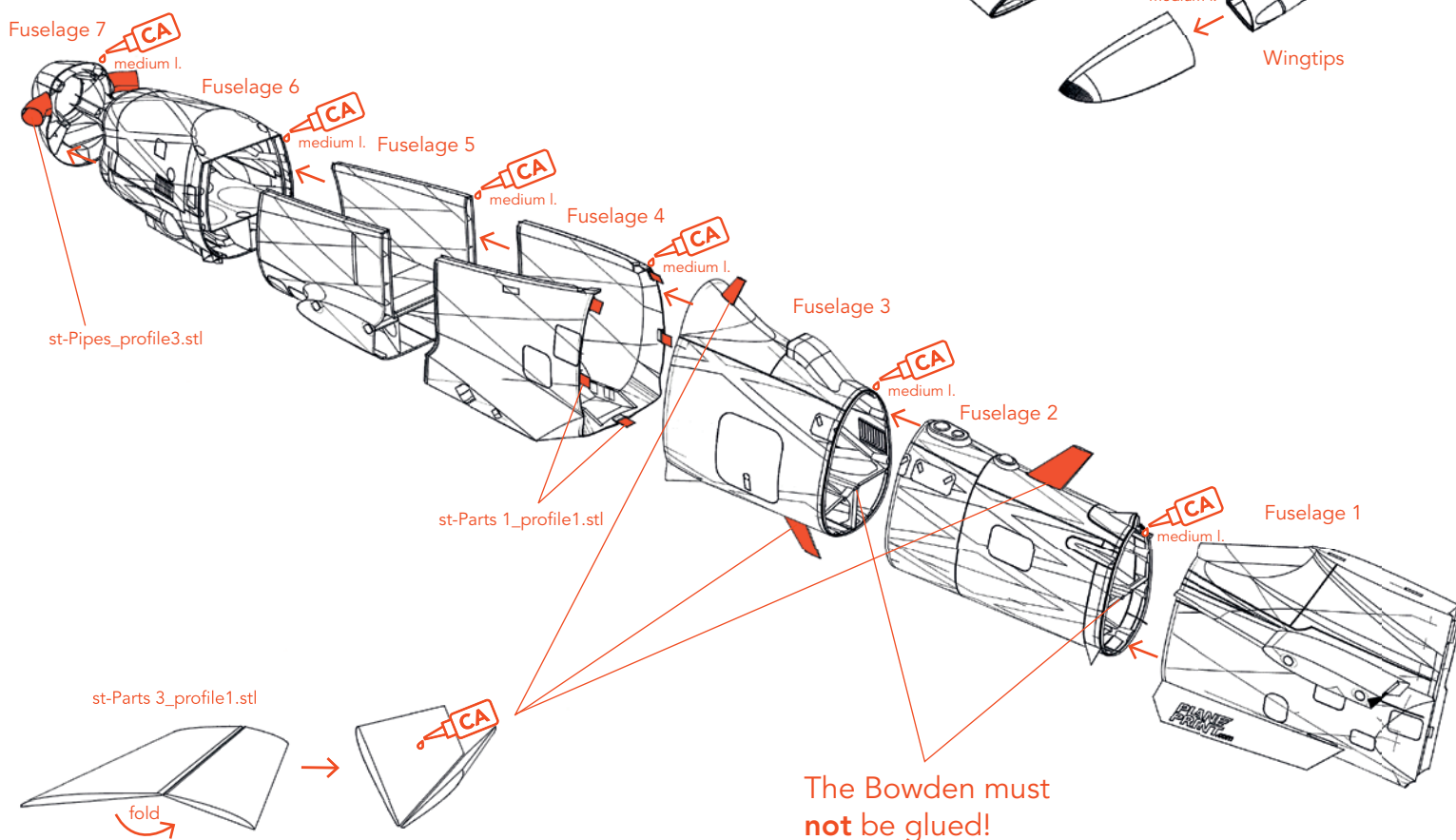
Assembling the elevator

6 mm carbon fiber Tube
Lenght: 170 mm (6.7 inches)

6 mm carbon fiber Tube
Lenght: 140 mm (5.5 inches)

CA medium l.

CA medium l.

CA liquid

2mm flat screws

Put the horizontal stabilizers on the carbon tubes and drill a 1.5mm hole here. The horizontal stabilizer is attached with two 2mm flat screws.

Assembling the rudder

STEP 3

CA medium l.

CA medium l.

CA medium l.

STEP 2

Be careful when handling the cutter!

CA medium l.

STEP 1

CA medium l.

st-Rudder 4_profile2.stl

CA medium l.

remove support

CA medium l.

1.5 mm carbon fiber rod
Lenght: 256 mm (10 inches)

Fix the carbon rod at the bottom with a drop of medium liquid CA glue.

Magnetic clasp canopy

Put two pieces of adhesive tape together with the adhesive side facing outwards,
put two neodymium magnets on them. add some CA glue to the magnetic holders
in the fuselage and canopy. then stick the canopy to the fuselage and let the glue harden.
The adhesive tape ensures that the wing and fuselage can be separated again.

Important: the magnets must touch so that they achieve the maximum force!

CA
medium l.

CA
medium l.

adhesive strip

Neodym Super
Magnets 5x5x5 mm

st-Parts 1_profile1.stl
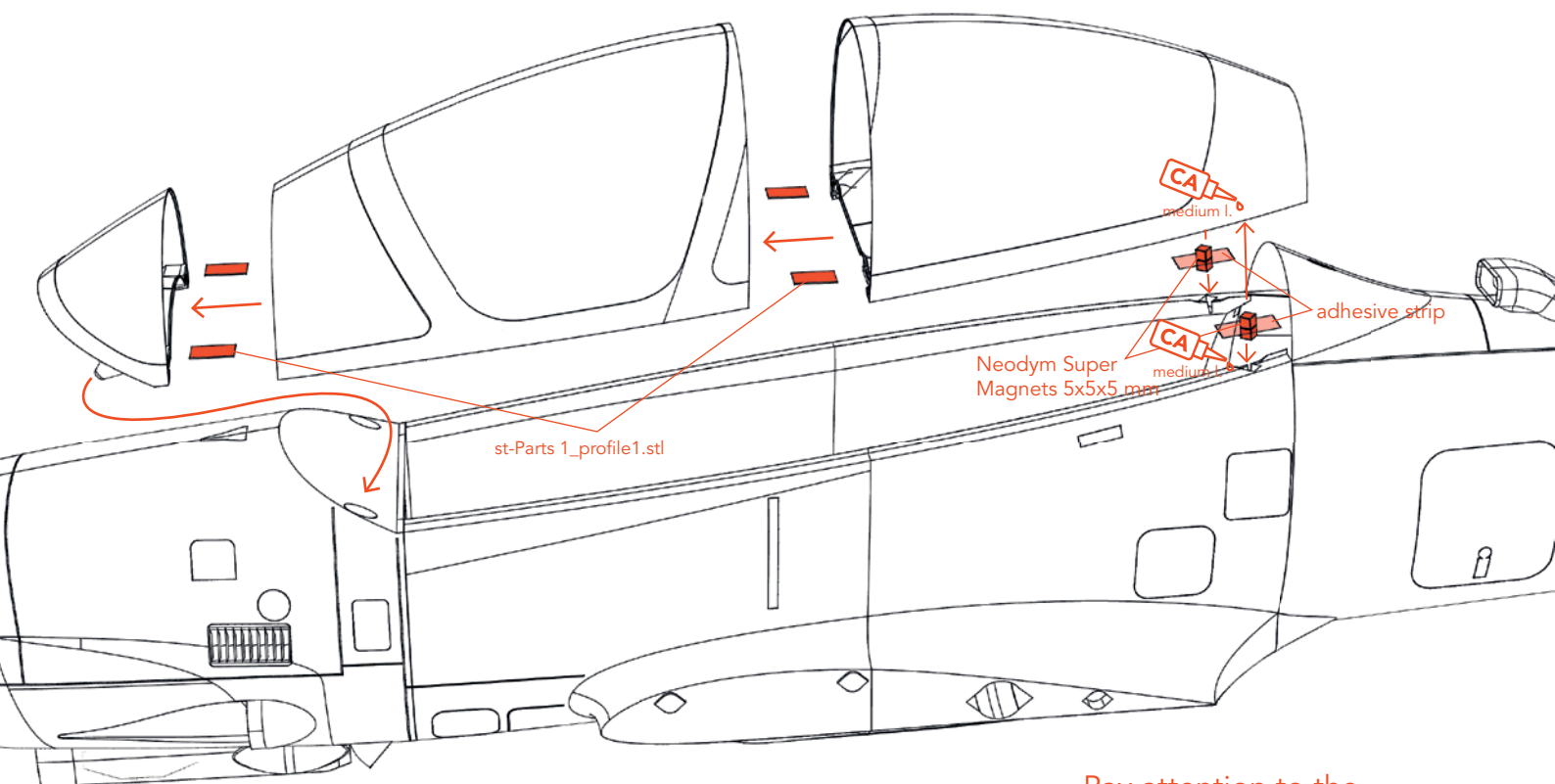
Pay attention to the
correct alignment of the
magnets so that they do
not reject each other!

Fuselage

Canopy
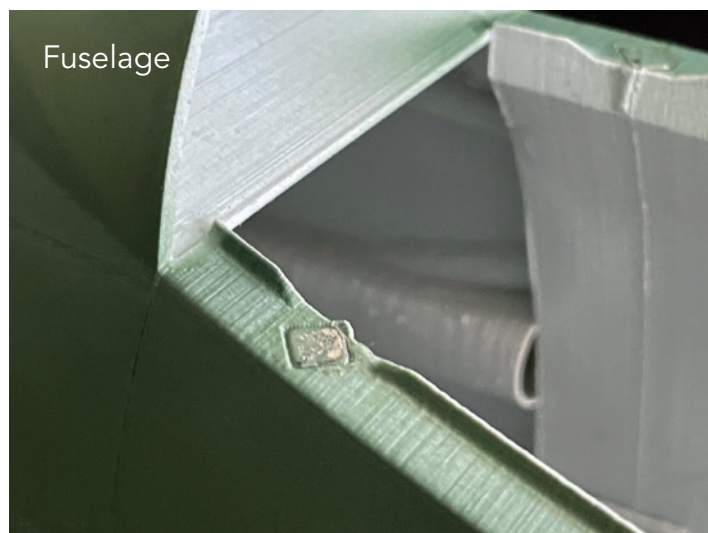
Wing fastening

Screw the TPU tensioners into the wings, attach the wings to the fuselage and clip the tensioners into the frame.

Drill a 1.5mm hole here.

2mm flat screws

st-Tension belt_profile4.stl
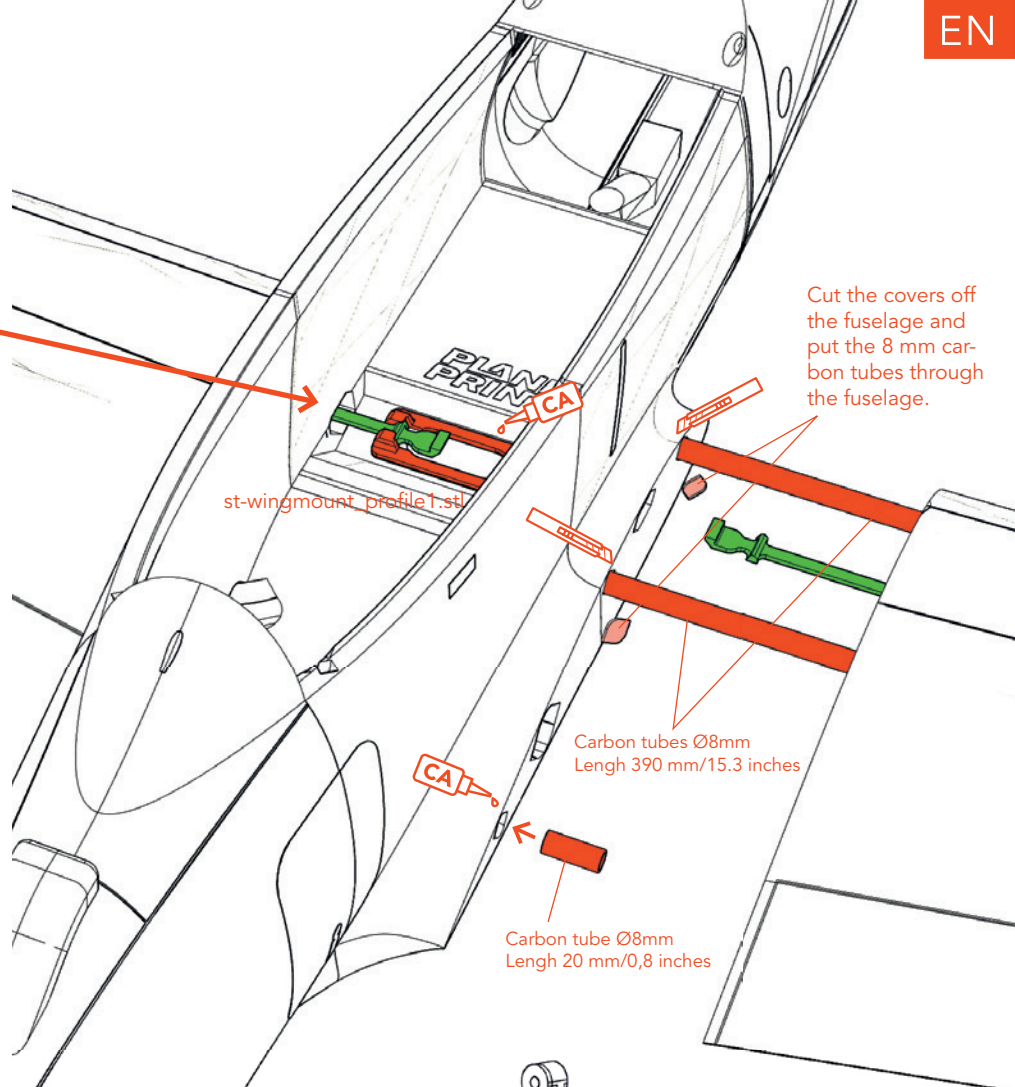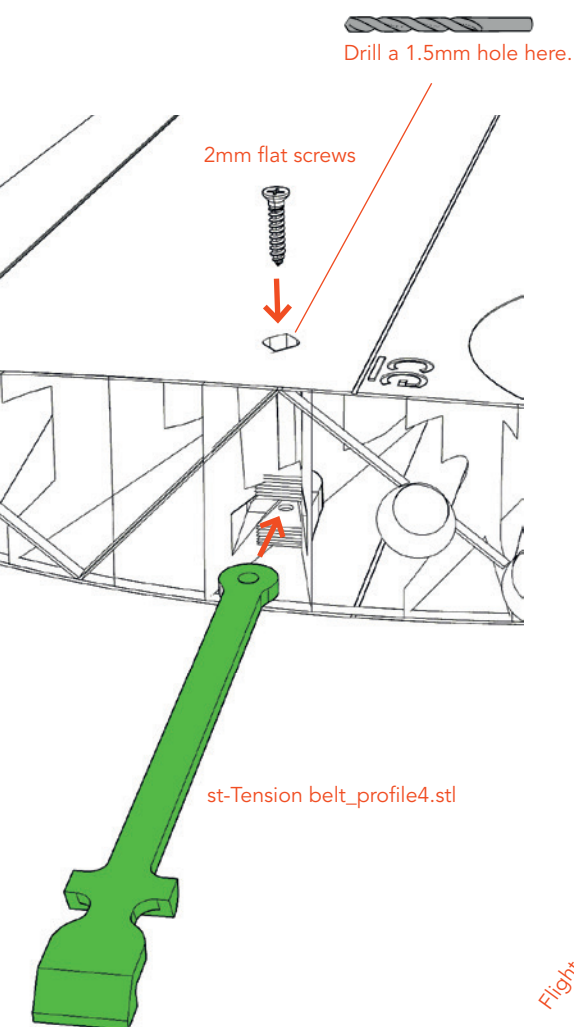
Cut the covers off the fuselage and put the 8 mm carbon tubes through the fuselage.

st-wingmount_profile1.stl

Carbon tubes Ø8mm
Lengh 390 mm/15.3 inches

CA

Carbon tube Ø8mm
Lengh 20 mm/0,8 inches

Flight direction

Left wing

Right wing

This points in the direction of the fuselage.

2mm or 3mm flat screws

2mm flat screws

2mm flat screw

Cable duct

Aileron left wing

Aileron right wing

2mm flat screws

remove support

st-Parts 1_profile1.stl

CA medium l.

Carefully drill the holes to the appropriate size for the screws.

Installation of the TPU Hinges

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.

Be careful not to use too much glue, the flap must move easily!

CA
liquid

These **spacers** ensure the correct gap distance.
Don´t remove!
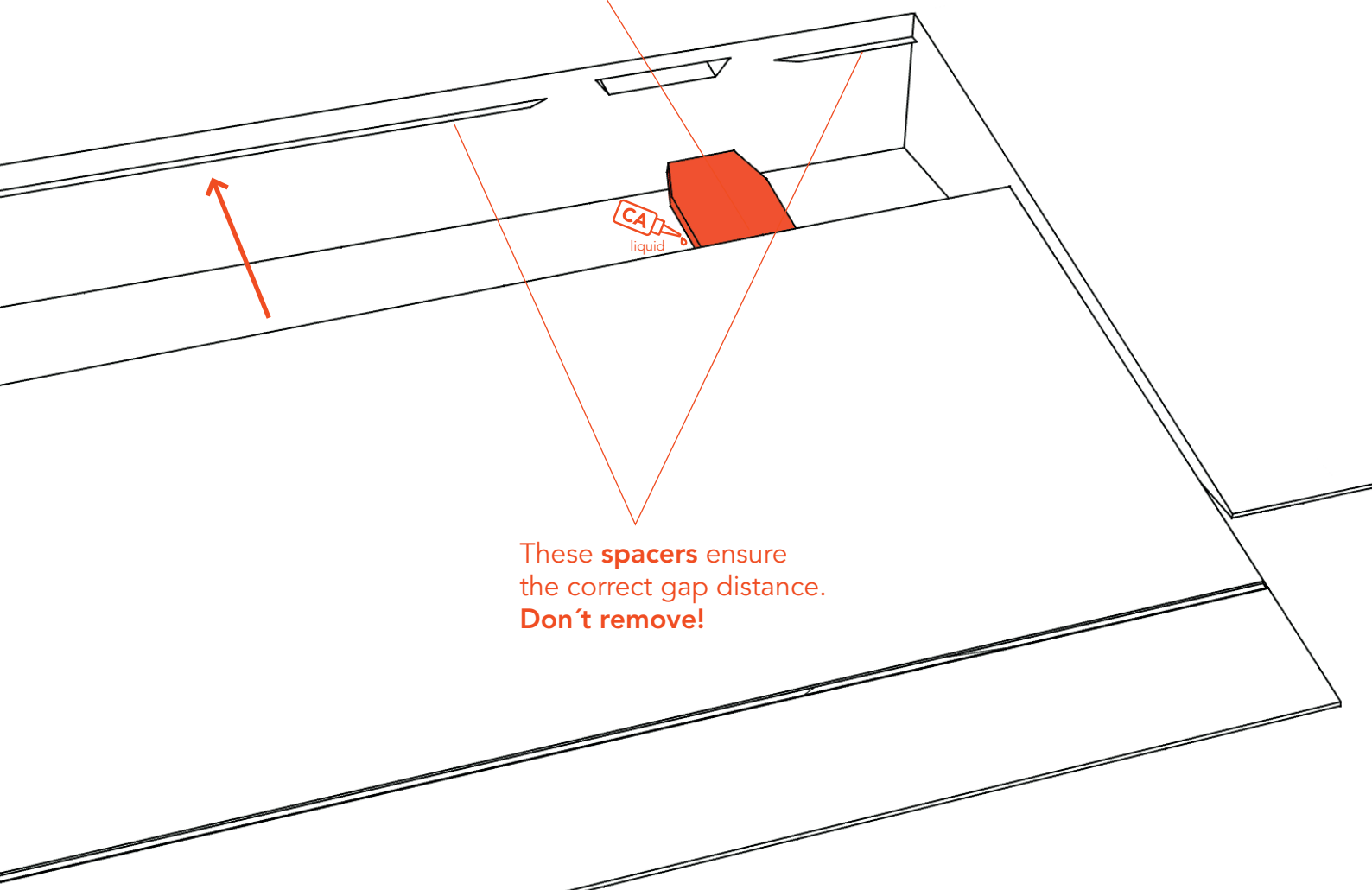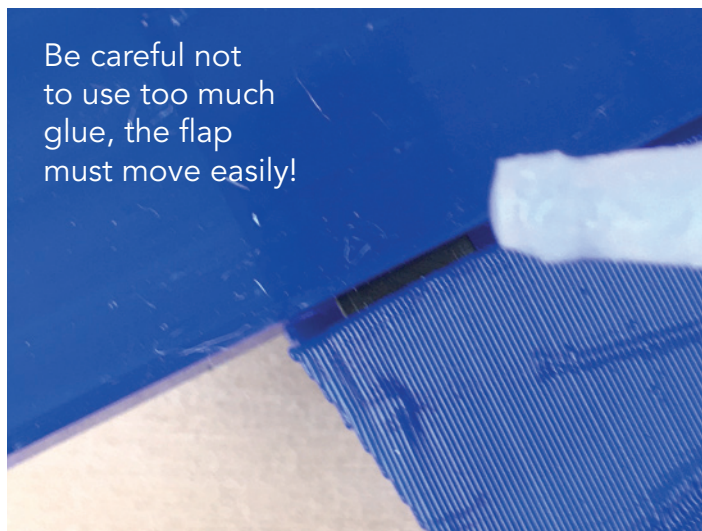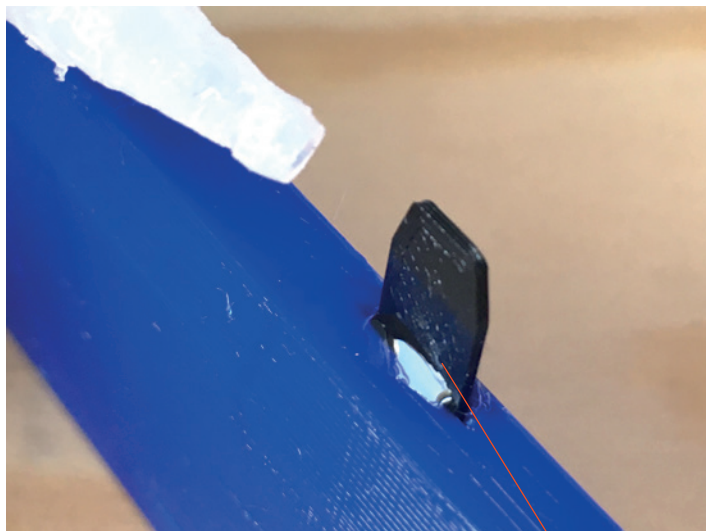
Installation of the servos in the fuselage

CA medium l.

CA medium l.

Heat shrinkable tube or wire

Carbon rod Ø1.5mm

Carbon rod Ø1.5mm

Servo rudder

Servo elevator

2mm flat screws

st-Servo mount-HITEC HS-55_profile1.stl
st-Servo mount-Emax ES08_profile1.stl
st-Servo mount-customizable_profile1.stl

CA liquid

Carbon rod Ø4mm
Length 76 mm/3 inches

If the carbon rod cannot be moved easily, drill the hole slightly.

2mm or 3mm flat screws

Steel rod Ø1mm

Bend a U to protect the servo from hits.

st-Parts 2_profile1.stl

Carbon rod Ø1.5mm

CA
medium l.

st-Parts 1_profile1.stl

The pinhorn must be flush with the hinge when viewed from above!

Main gear

CA liquid

Carbon rod Ø4mm
Lengh 74 mm/2.9 inches

CA liquid

Motor mount

IMPORTANT: Make sure that the motor is well fixed. Prop and spinner must run exactly round and must not be unbalanced!

First glue the motor mounts into the openings with a lot of glue. Important: the motor mounts must be put all the way to the back!

You can use this lead chamber to set the CG correctly.

st-Parts 2_profile1.stl

CA liquid

2mm flat screws
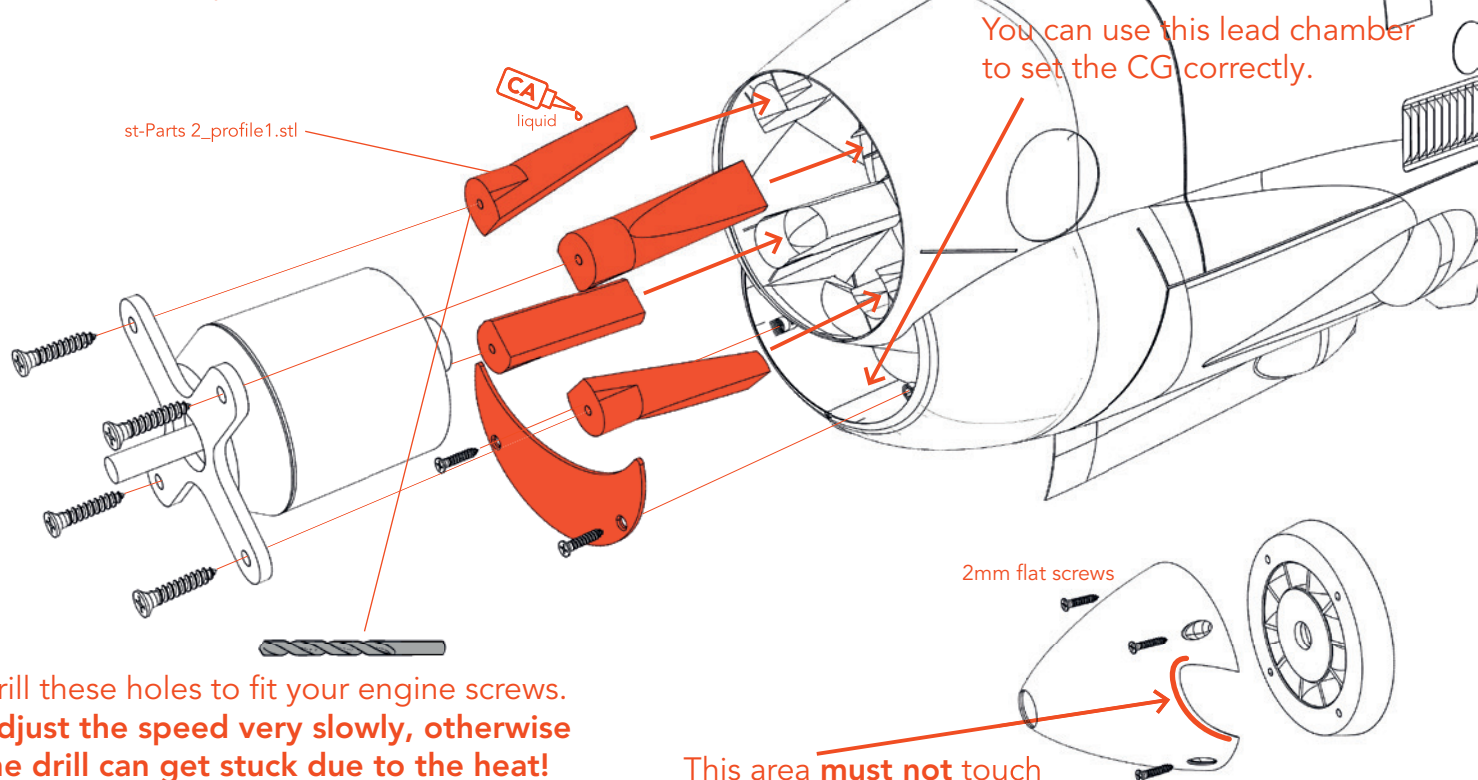
Drill these holes to fit your engine screws. **Adjust the speed very slowly, otherwise the drill can get stuck due to the heat!**

This area **must not** touch the prop, if your prop hits please rework.

RC components

To achieve the correct CG the battery must be positioned very far forward in the fuselage position.

st-Battery mount 1_profile1.stl

st-Battery mount 2_profile1.stl

Battery

CA
medium l.

Attach the receiver to the fuselage with self-adhesive velcro tape.

Receiver

Fix the battery handle to the fuse-lage with self-adhe-sive velcro tape.
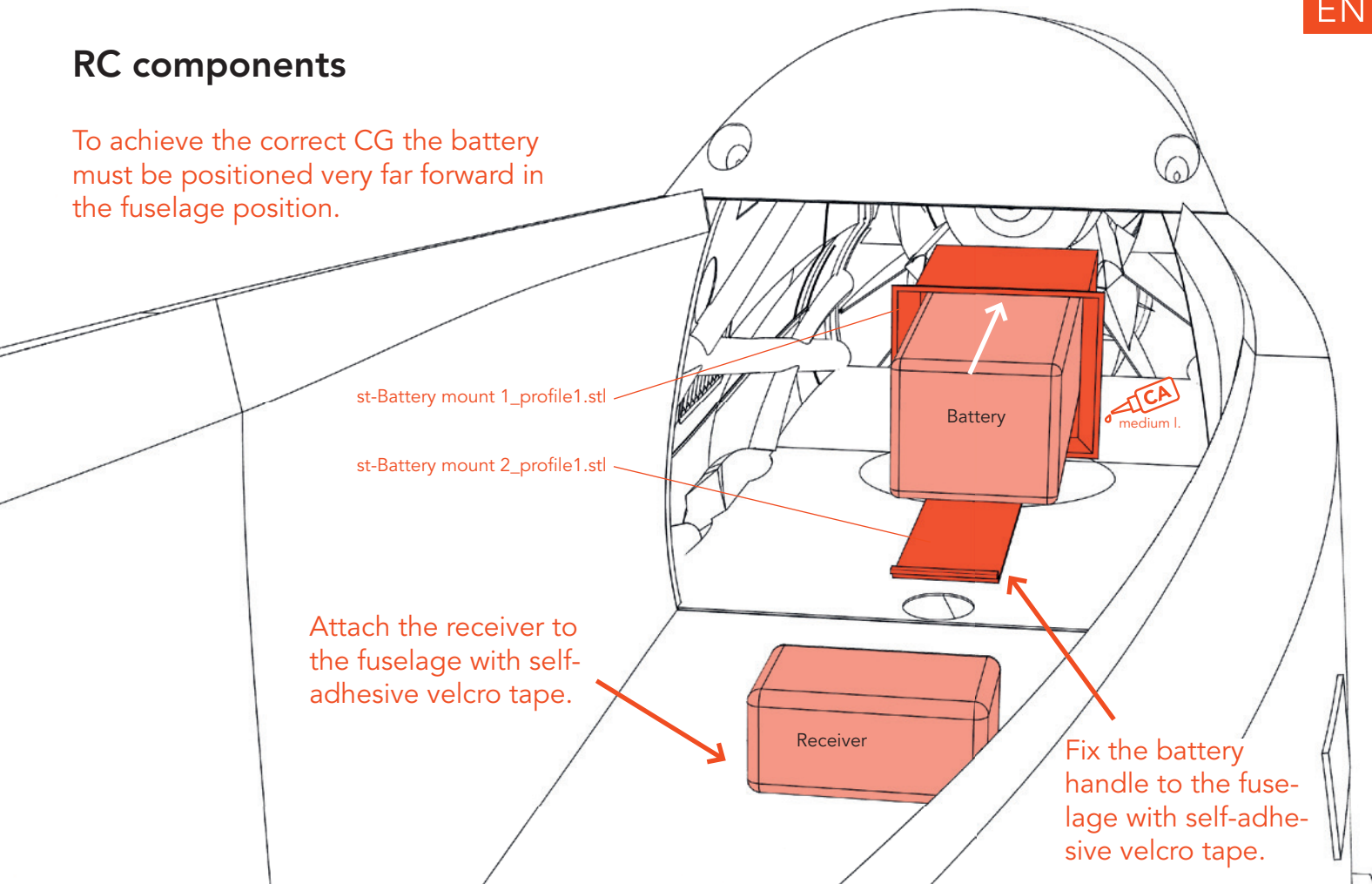
Attach the battery handle (STL: Battery mount 2) to the battery with self-adhesive Velcro tape.
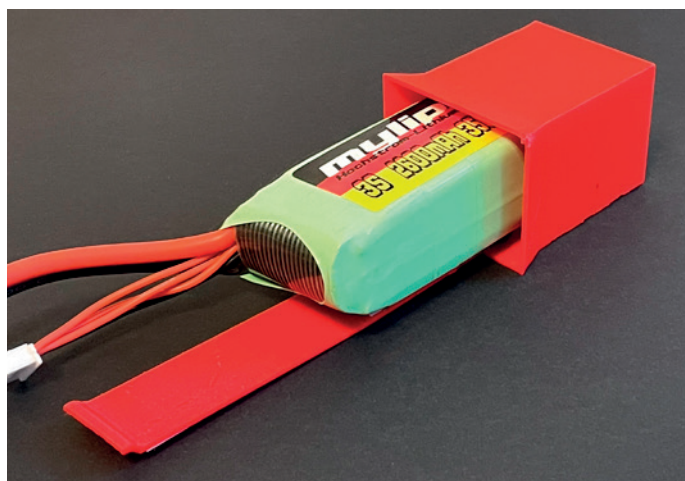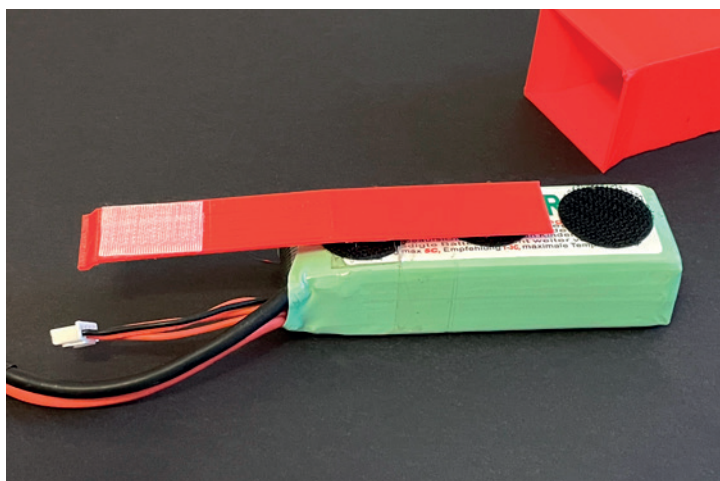
DETAIL PHOTOS

If the carbon tubes in
the wings are a little stiff,
clamp the remaining tube
in a drill and enlarge the
hole a little.

Aileron

Main gear

QUICK START GUIDE

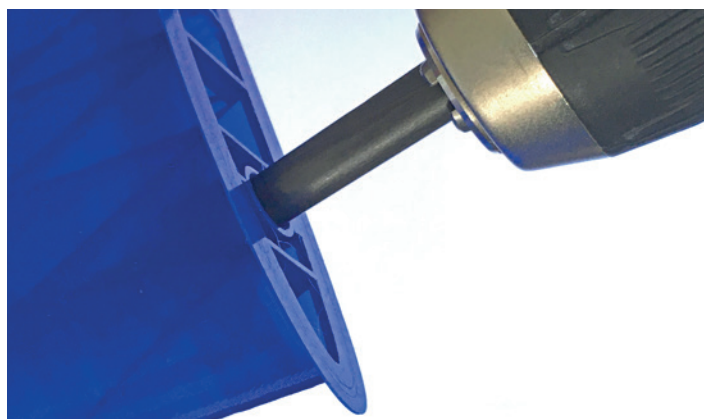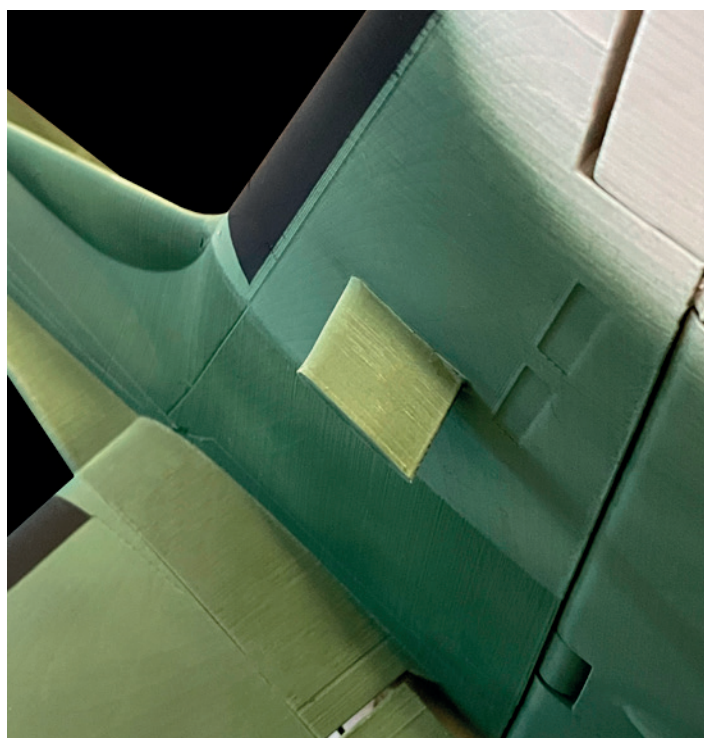After installing the electronics and setting up the transmitter, check that the control surfaces are aligned correctly. Set the transmitter trim to zero. The ailerons should be aligned with the trailing edge of the wing tip. Then align the flaps with the ailerons. The elevator should be aligned with 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 (Delta) model
2. Reversing the direction of servo as nessesery (see control function)
3. Servo adjustment all: 100%

FLIGHT TIMER

Flight time will vary depending on the battery size. Engine runtime expect 8 minutes under normal circumstances (2700 3S battery). It is a good idea to be conservative with the flight timer until you gain experience with your airplane.

SETTING THE SERVO TRAVEL

Aileron	▲ = 18 mm	Expo -30 %
	▼ = 15 mm	Expo -30 %
Elevator	▲ = 24 mm	Expo -30 %
	▼ = 18 mm	Expo -30 %
Rudder	◄ = 28 mm	Expo -10 %
	► = 28 mm	Expo -10 %

CENTER OF GRAVITY (CG)

See the Marker on the Wings.
THE CG HAS TO FIT EXACTLY!
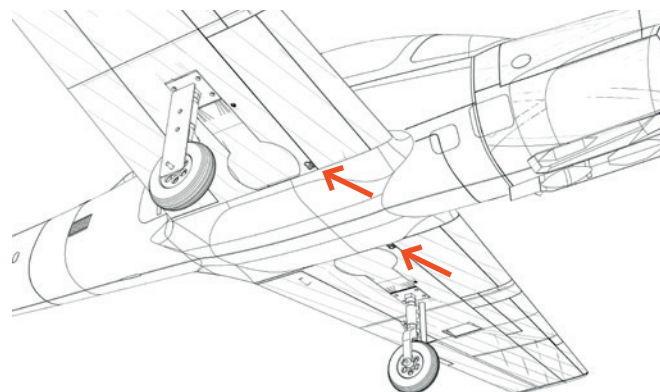
TECHNICAL SPECIFICATIONS

1300 mm (51.2 inches)

1300 mm (51.2 inches)
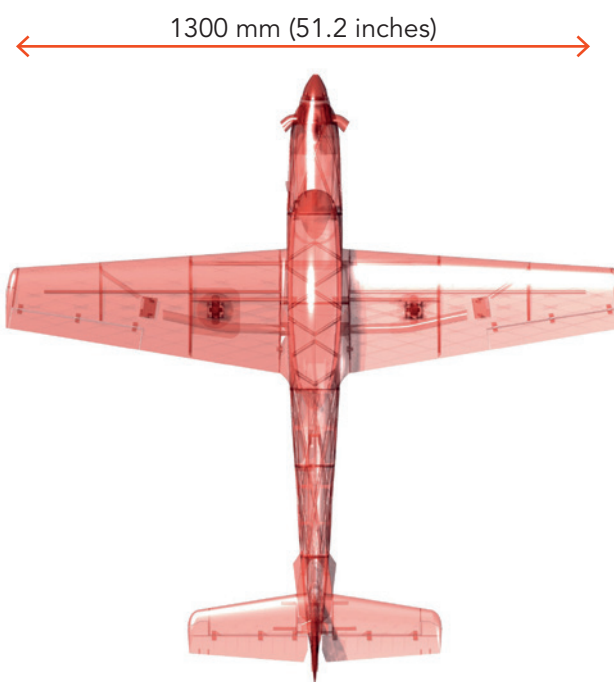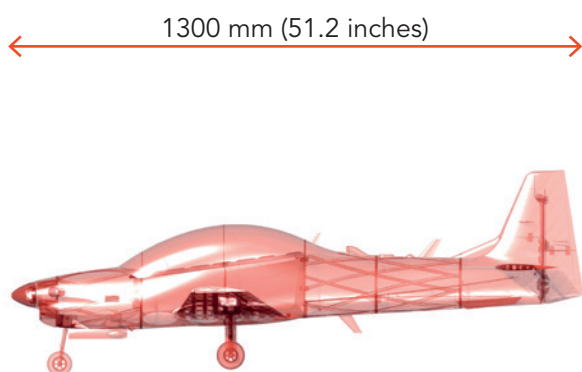
FLYING WEIGHT:

~ 2080 g
(depending on RC components and 3D printing)

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.

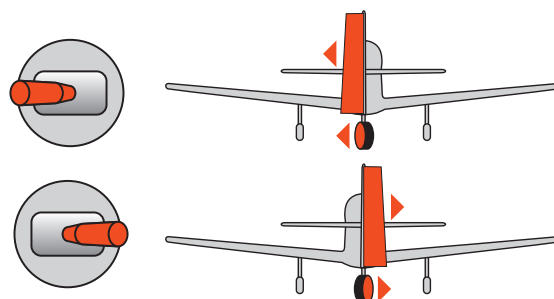6. Move the rudder lever to the right. The rudder should move to the right

AILERON
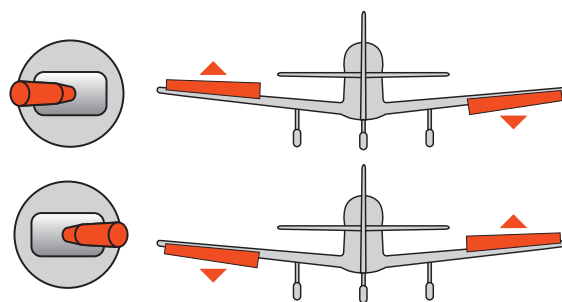
ELEVATOR
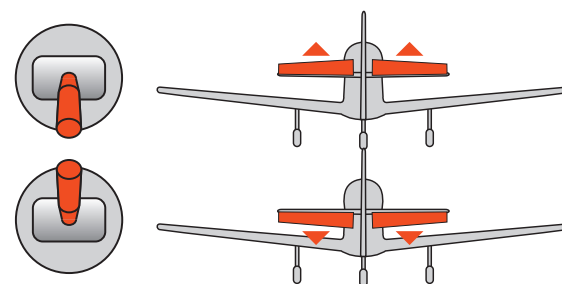
RUDDER

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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