PLANE PRINT.com
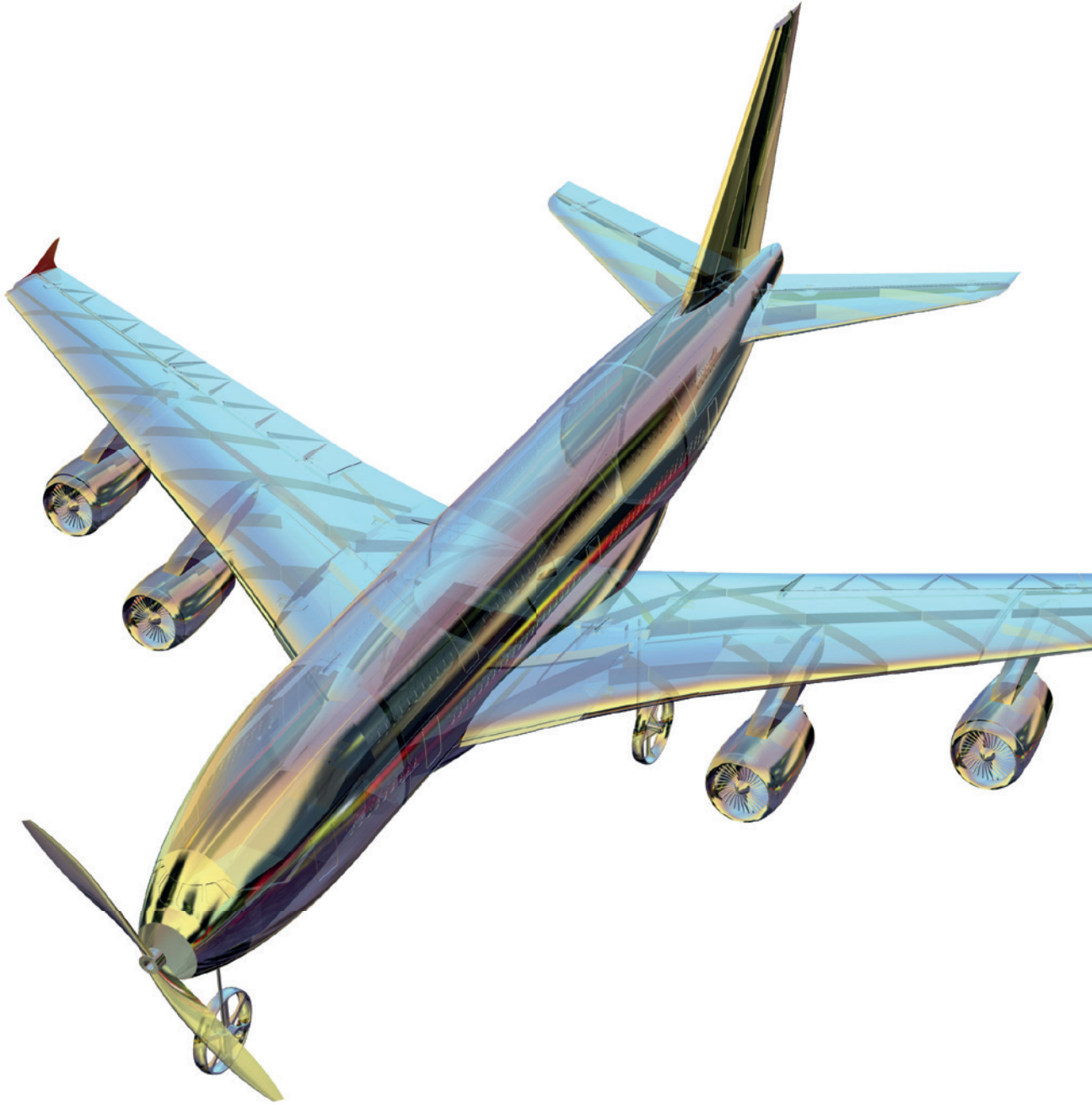
very light 3d printable rc planes

PLANE PRINT *Funbus*

NOTE: Slicing **only** works with CURA!

You can find the STL data at **www.planeprint.com**

PRINTING THE PARTS – PRINTING PROFILES

You may wonder why this 3D model is exclusive to CURA?

The most important thing with small RC model airplanes is always the **size to weight ratio.** 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 offer weight-relevant parts in a **true 1-wall printing** process for both the outer skin and the filling. This allows us to save weight while maintaining the necessary stability.

Here we show you how to make adjustments from a standard CURA profile.
For this model we need only 4, easy to create profiles.

It is important to follow the instructions from PLANEPRINT.com to slice the part correctly.
However, it can be useful to perfect your 3D printing by making some additional settings depending on the printer and 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.

FAIR DATA USE ©

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!
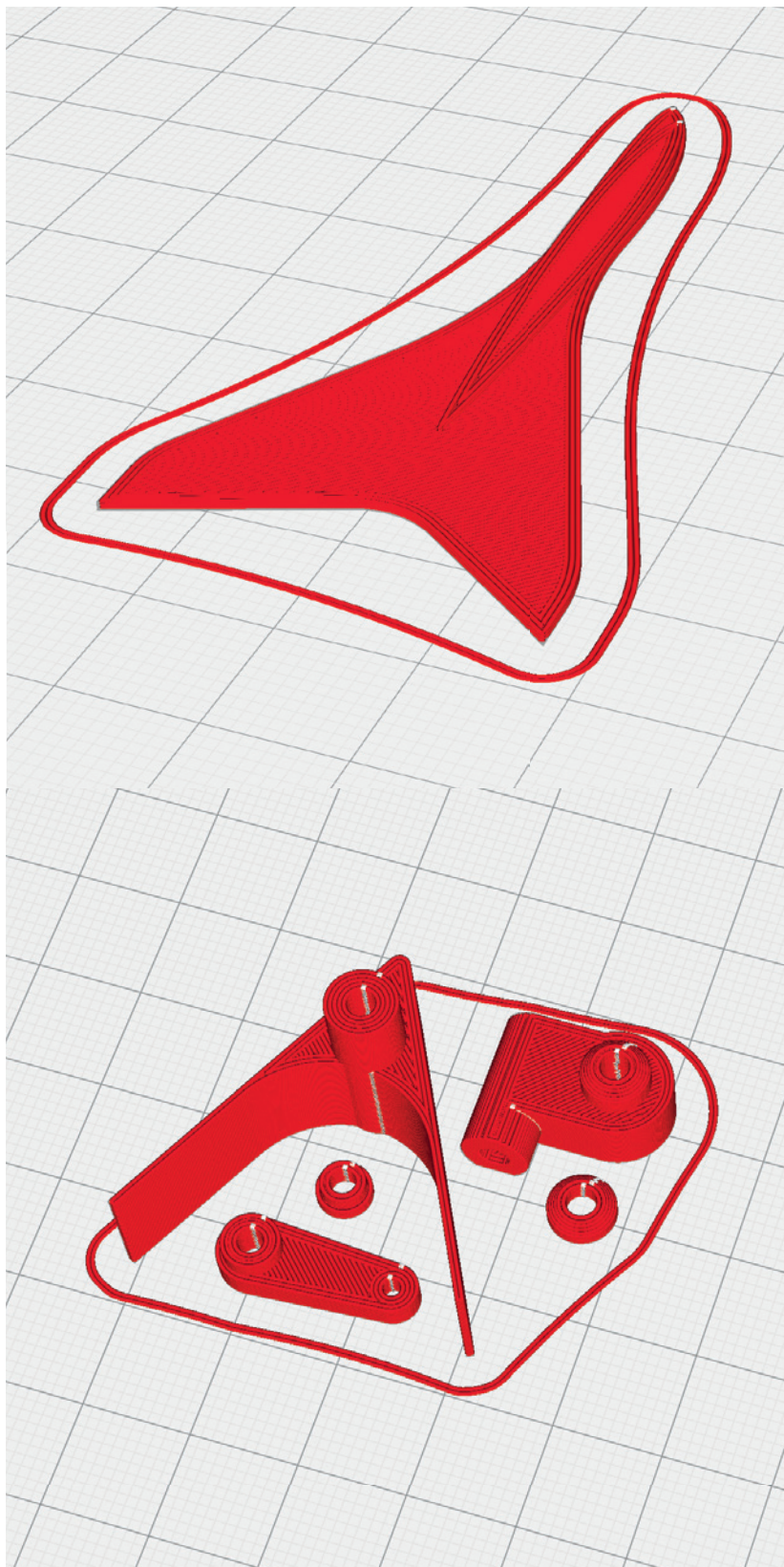
PROFILE P1_FULLBODY

The following parts must be sliced with the PROFILE P1_FULLBODY.
Please note the additional settings for the individual parts!

Winglet-left_LW_profile1_fb.stl
Winglet-right_LW_profile1_fb.stl

MATERIAL   **LW**-PLA, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required

Gear front_profile1_fb.stl

MATERIAL   PLA, ~ 4 g

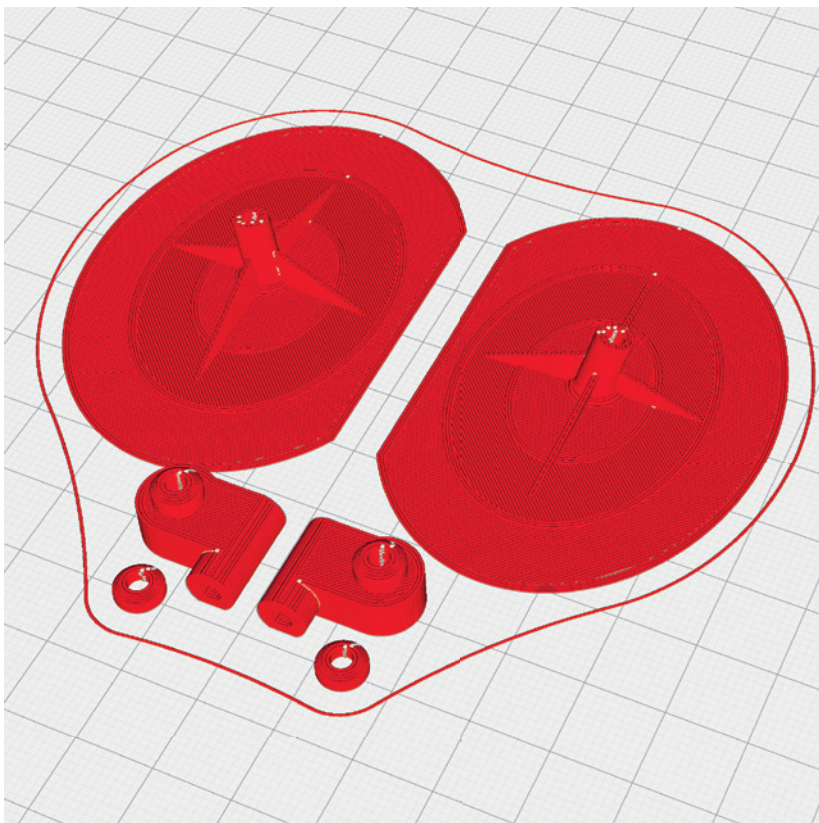**ADDITIONAL SETTINGS**

None required

PROFILE P1_FULLBODY

The following parts must be sliced with the PROFILE P1_FULLBODY.
Please note the additional settings for the individual parts!

Gear main_profile1_fb.stl

`MATERIAL` PLA, ~ 6 g
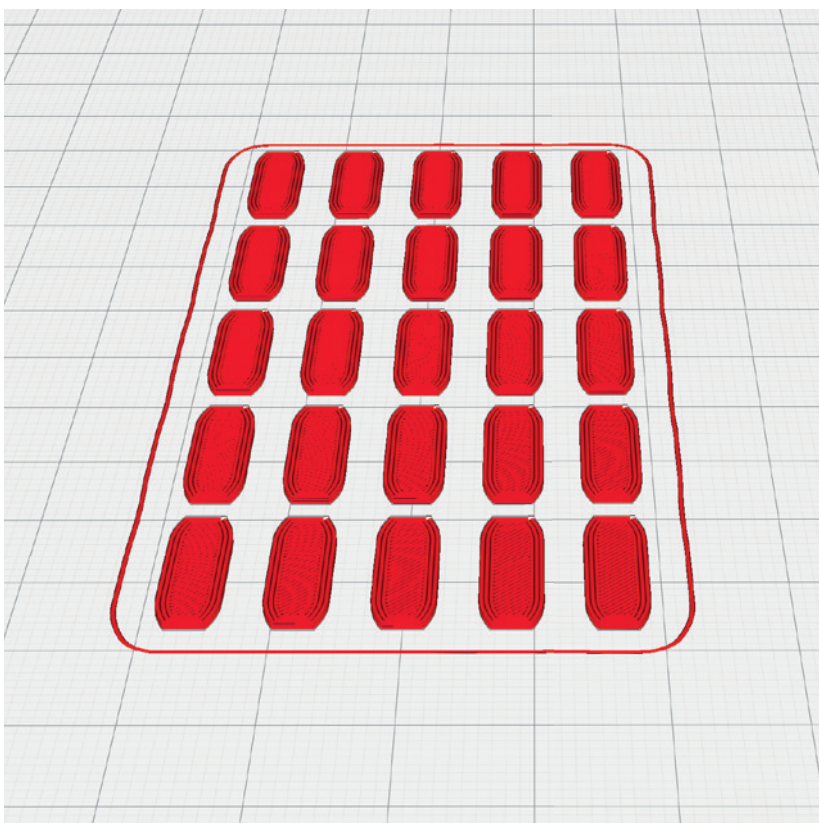
`ADDITIONAL SETTINGS`

None required

Interconnects-profile1_fb.stl

`MATERIAL` PLA or LW-PLA, ~ 2 g

`ADDITIONAL SETTINGS`

None required

`NOTE` You can also print the interconnects with LW-PLA, then they are less visible.
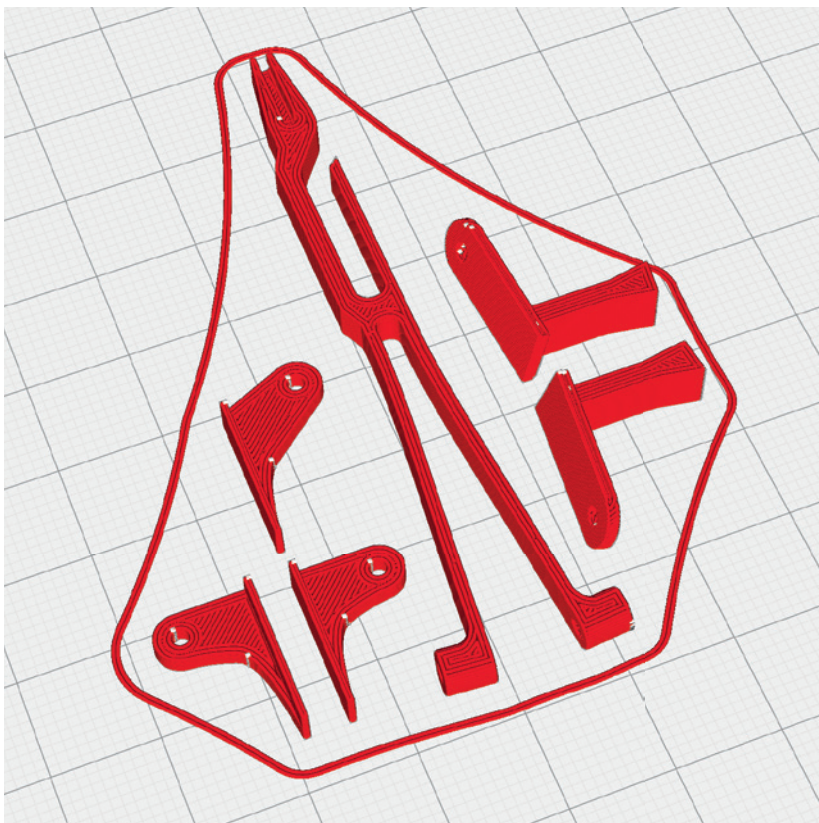
PROFILE P1_FULLBODY

The following parts must be sliced with the PROFILE P1_FULLBODY.
Please note the additional settings for the individual parts!

Linkages_profile1_fb.stl

MATERIAL PLA, ~ 2 g

ADDITIONAL SETTINGS

None required

Motor mount-31mm_profile1_fb.stl
Motor mount-undrilled_profile1_fb.stl

MATERIAL PLA, ~ 2 g

ADDITIONAL SETTINGS

None required

NOTE If your motor has other drilling distances than 31 mm, use the undrilled motor mount.
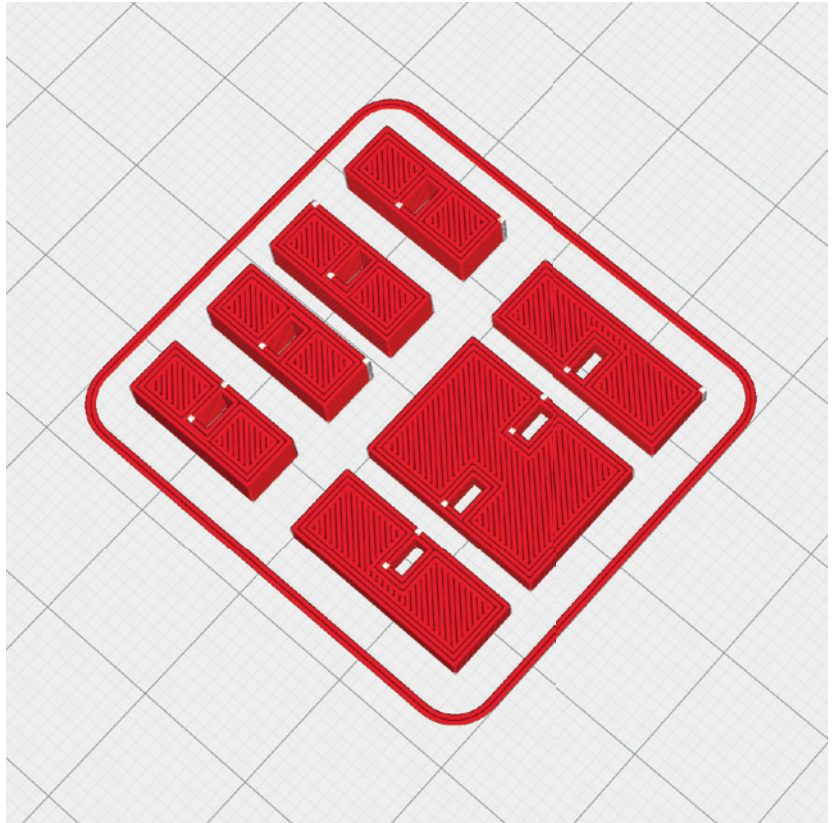
PROFILE P1_FULLBODY

The following parts must be sliced with the PROFILE P1_FULLBODY.
Please note the additional settings for the individual parts!

Servo mount_profile1_fb.stl

MATERIAL   PLA or LW-PLA, ~ 2 g

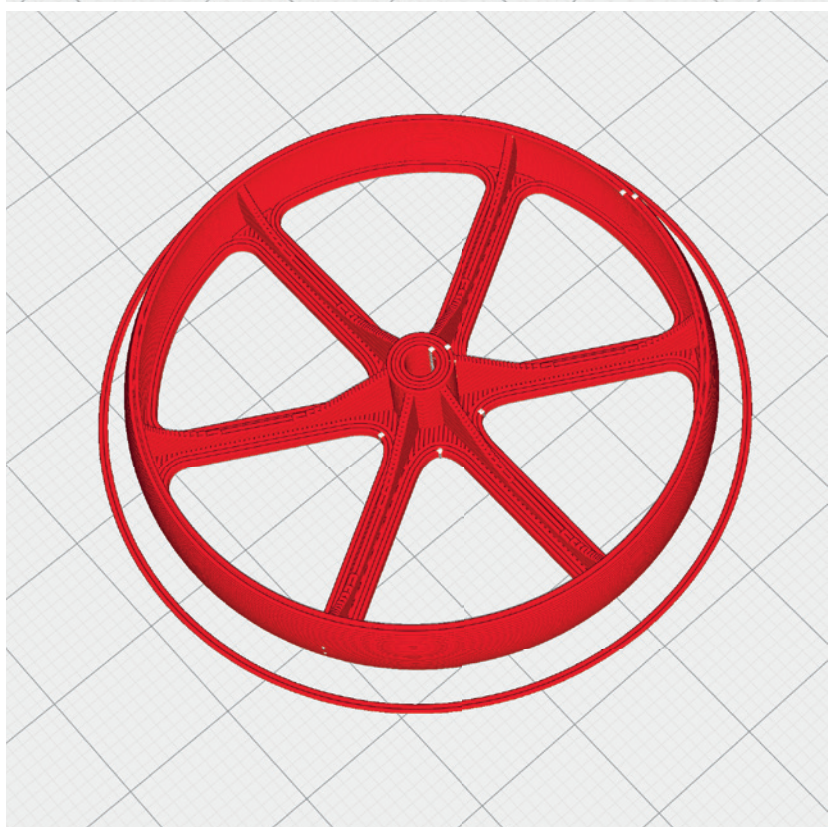**ADDITIONAL SETTINGS**

None required

Wheel_profile1_fb.stl

MATERIAL   PLA, ~ 2 g

ADDITIONAL SETTINGS

None required

NOTE   Use transparent PLA,
then the wheels are less visible.

PROFILE P1_FULLBODY

The following parts must be sliced with the PROFILE P1_FULLBODY.
Please note the additional settings for the individual parts!

Wingmount_profile1_fb.stl

MATERIAL   PLA or LW-PLA, ~ 3 g

ADDITIONAL SETTINGS

None required

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

Aileron1-left_LW_profile3_fb.stl
Aileron1-right_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 8 g*

*__Display in Cura__. The actual weight is 4,5 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

Aileron2-left_LW_profile3_fb.stl
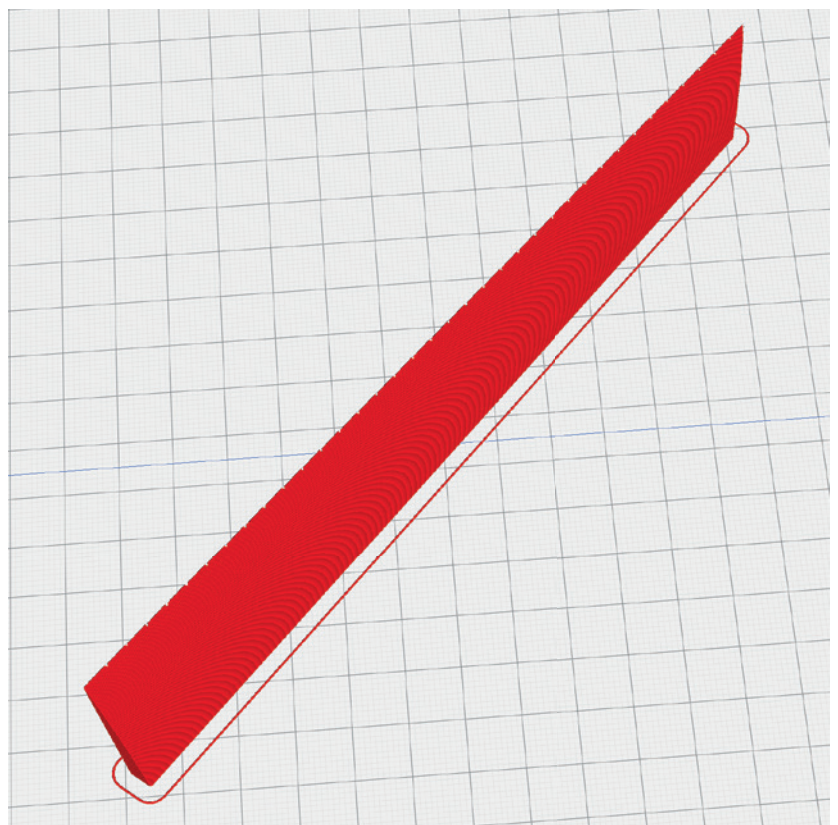## Aileron2-right_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 6 g*

*__Display in Cura__. The actual weight is 3 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

Elevator-left_LW_profile3_fb.stl
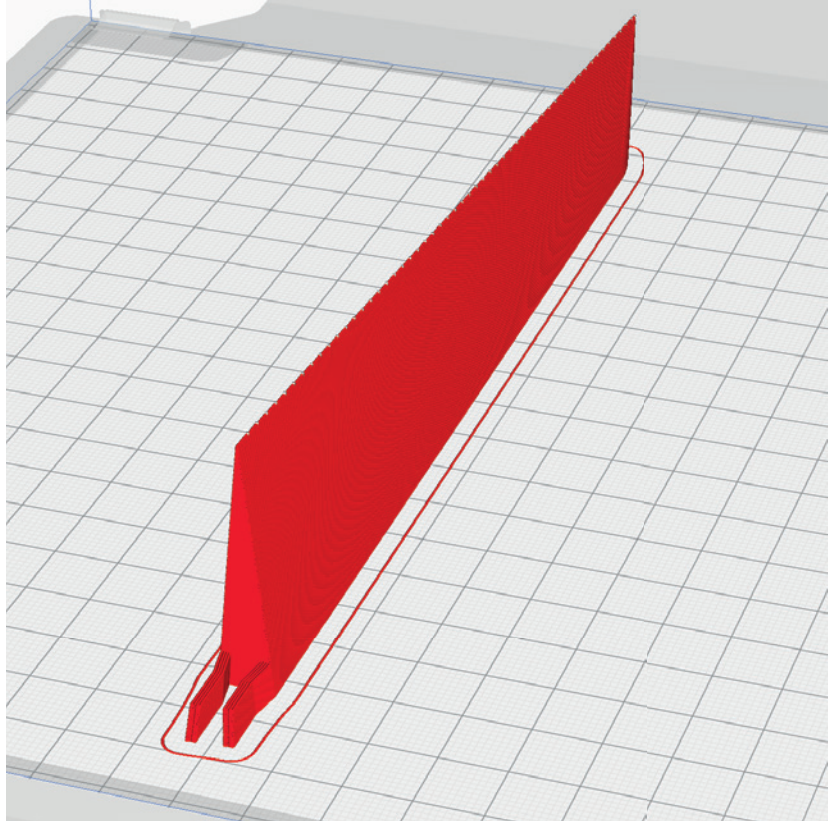## Elevator-right_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 7 g*

*__Display in Cura__. The actual weight is 4 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
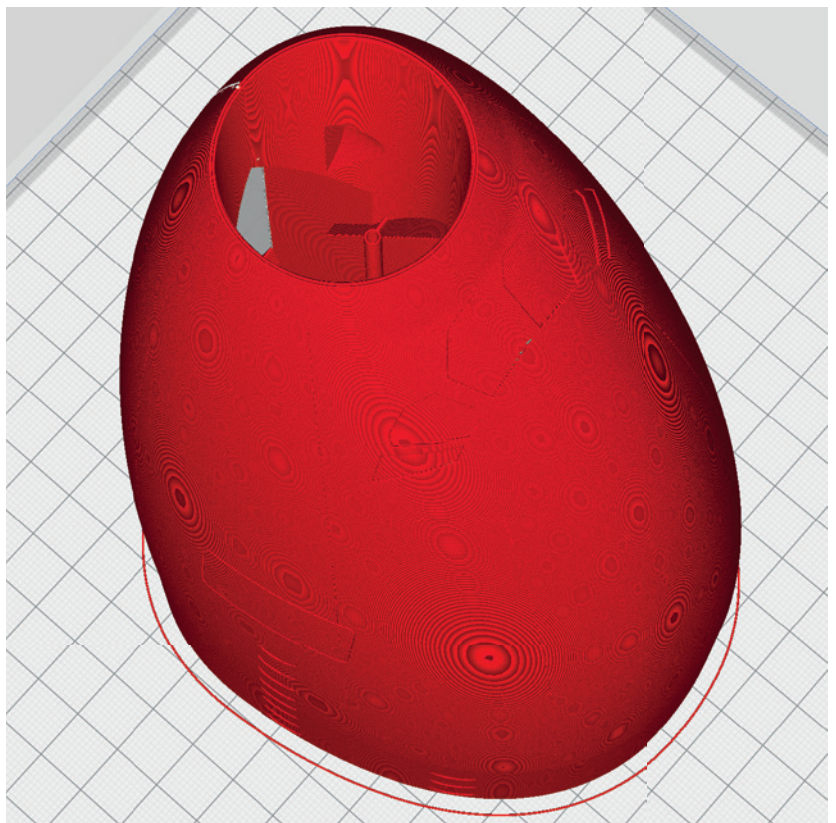

Fuselage1_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 46 g*

*__Display in Cura__. The actual weight is 26 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.
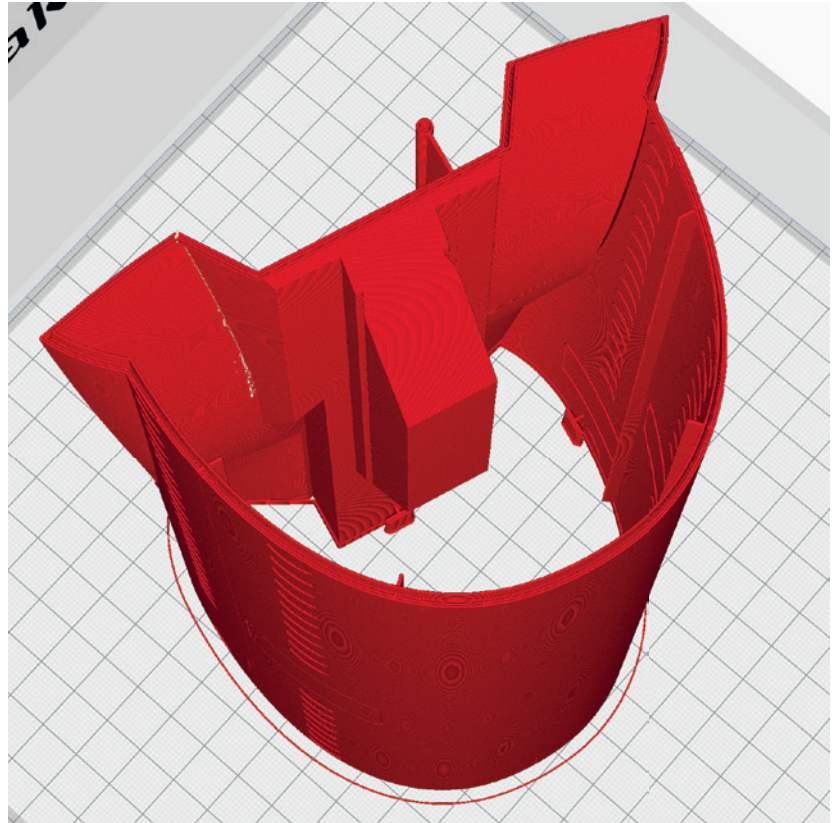
Fuselage2_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 40 g*

***Display in Cura**. The actual weight is 22 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
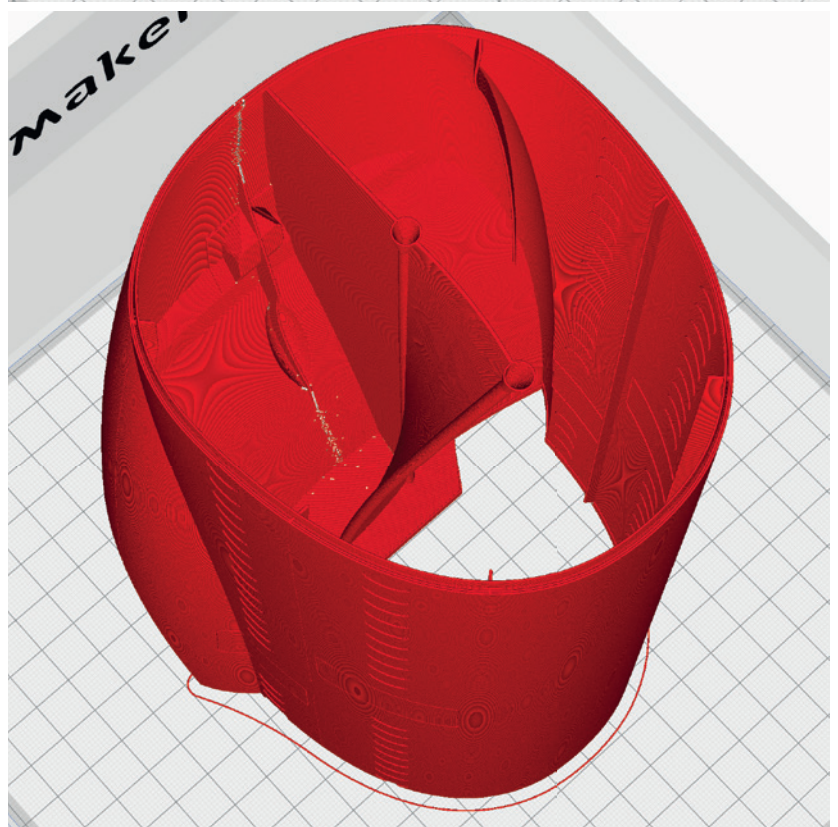

Fuselage3_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 51 g*

***Display in Cura**. The actual weight is 28 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.
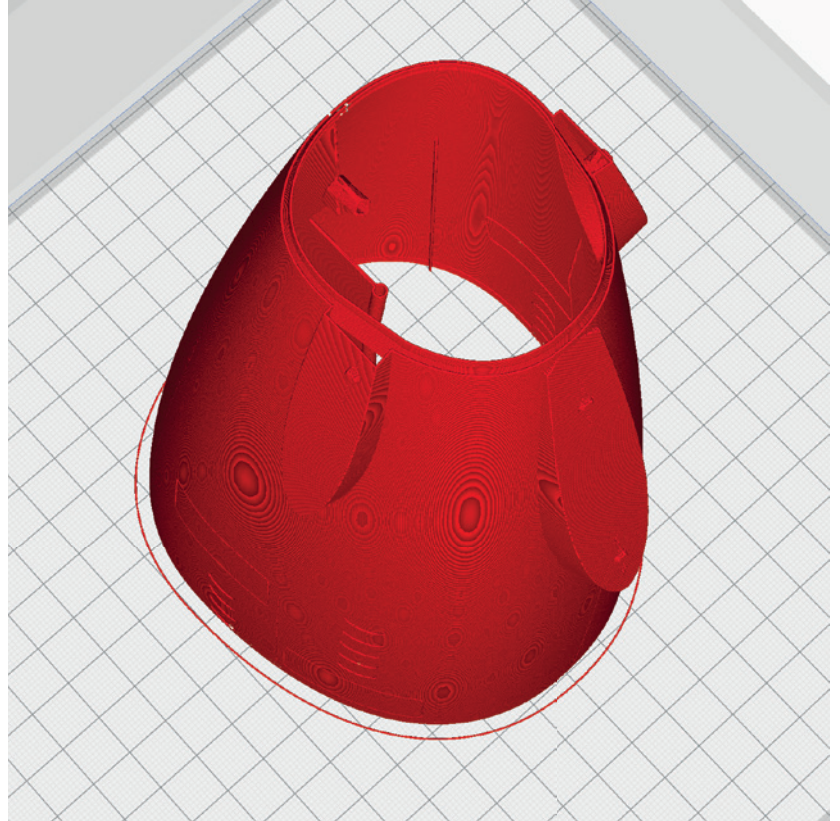
Fuselage4_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 38 g*
*__Display in Cura__. The actual weight is 20 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
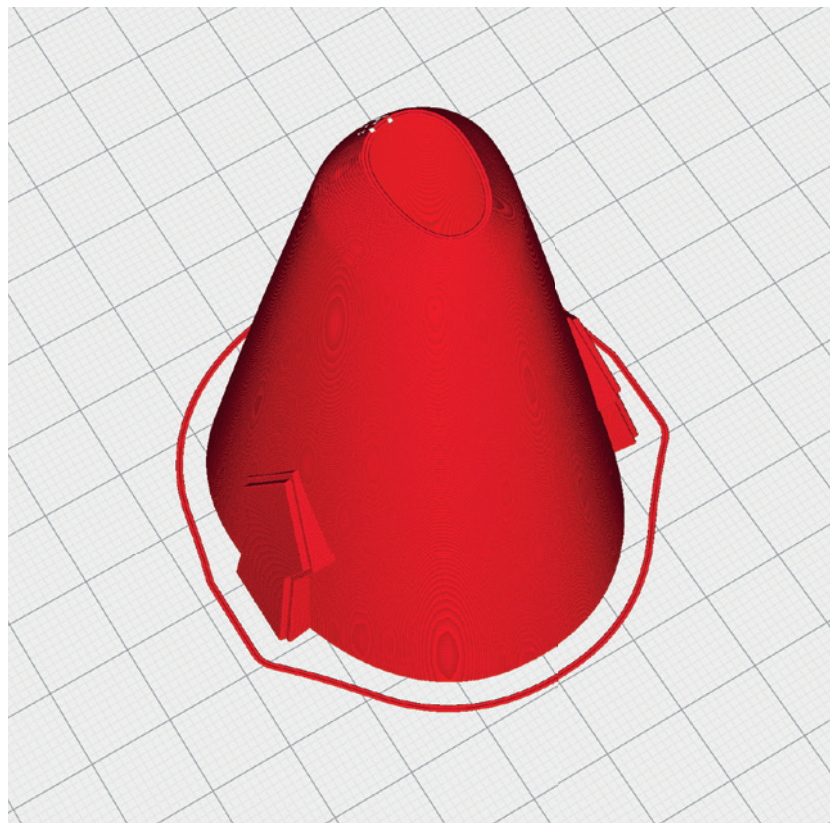

Fuselage5_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 4 g*
*__Display in Cura__. The actual weight is 2 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

HS-left_LW_profile3_fb.stl
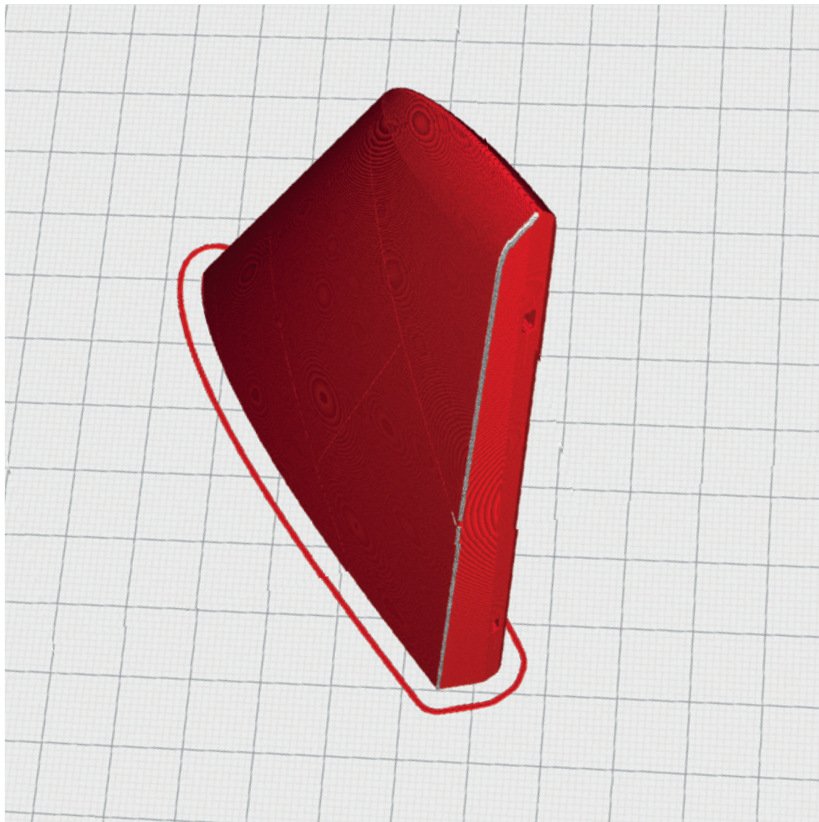## HS-right_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 11 g*

***Display in Cura**. The actual weight is 6 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
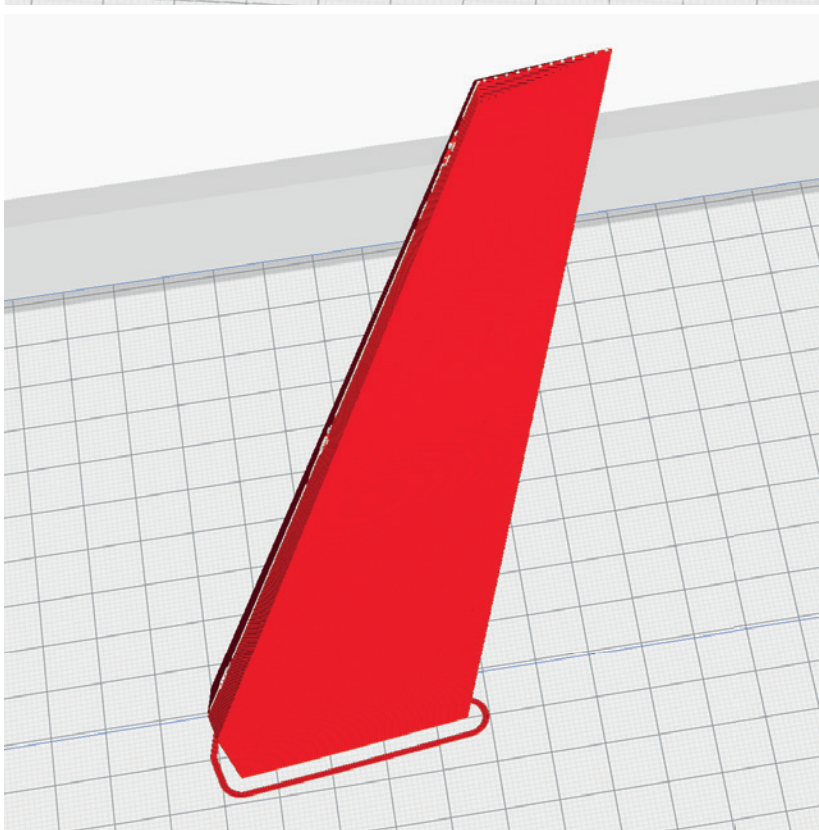

Rudder_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 8 g*

***Display in Cura**. The actual weight is 4,5 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

Turbine blade_LW_profile3_fb.stl
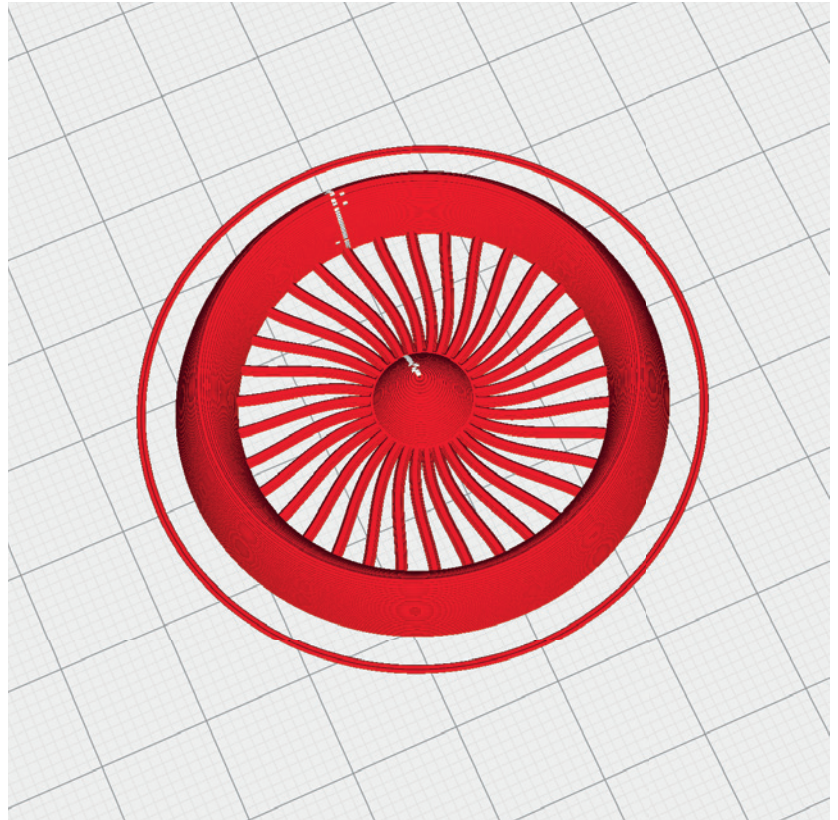
MATERIAL LW-PLA, ~ 1 g*

***Display in Cura**. The actual weight is 0,5 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

NOTE Stringing is unavoidable here, please just clean it a bit with the cutter knife.

turbine inside-left_LW_profile3_fb.stl
turbine inside-right_LW_profile3_fb.stl
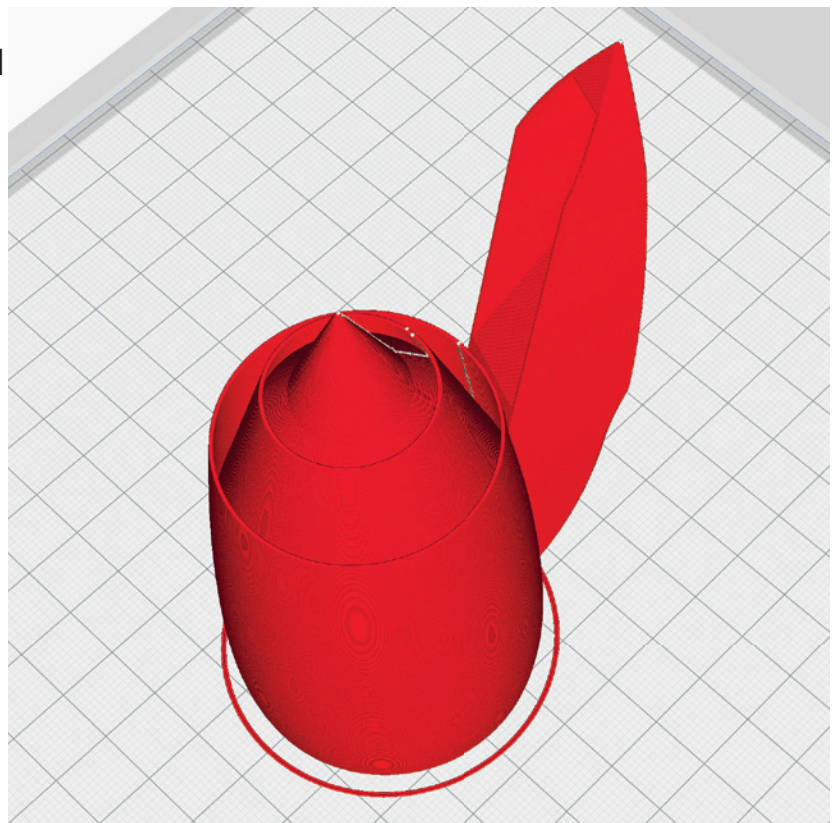
MATERIAL LW-PLA, ~ 11 g*

***Display in Cura**. The actual weight is 6 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

NOTE Stringing is unavoidable here, please just clean it a bit with the cutter knife.

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

turbine outside-left_LW_profile3_fb.stl
turbine outside-right_LW_profile3_fb.stl
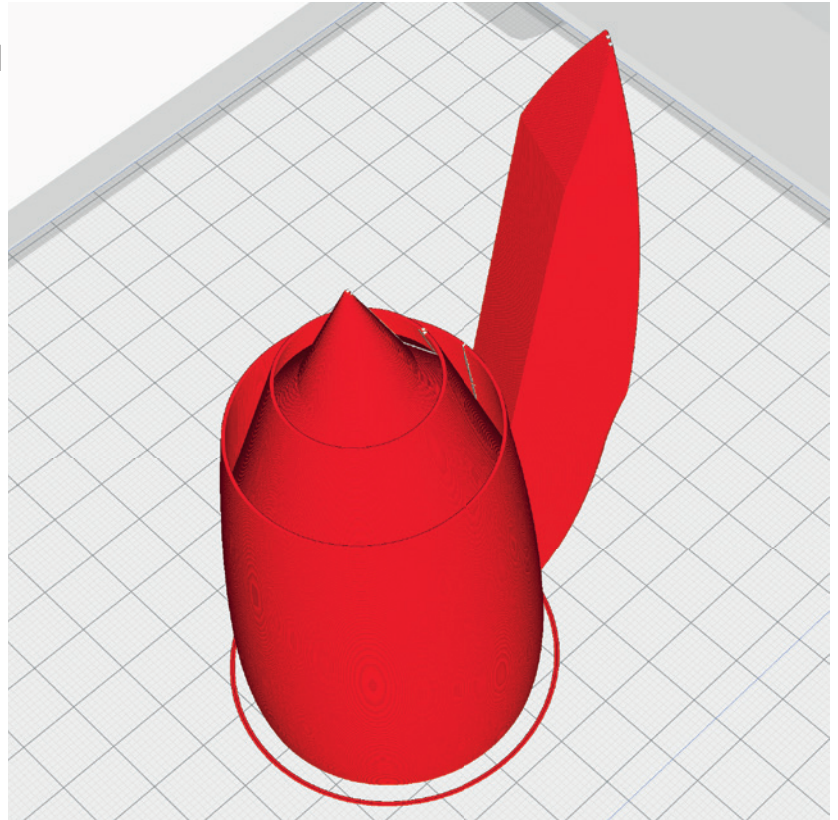
MATERIAL LW-PLA, ~ 11 g*

***Display in Cura**. The actual weight is 6 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

NOTE   Stringing is unavoidable here, please just clean it a bit with the cutter knife.

VS_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 14 g*

***Display in Cura**. The actual weight is 8 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.
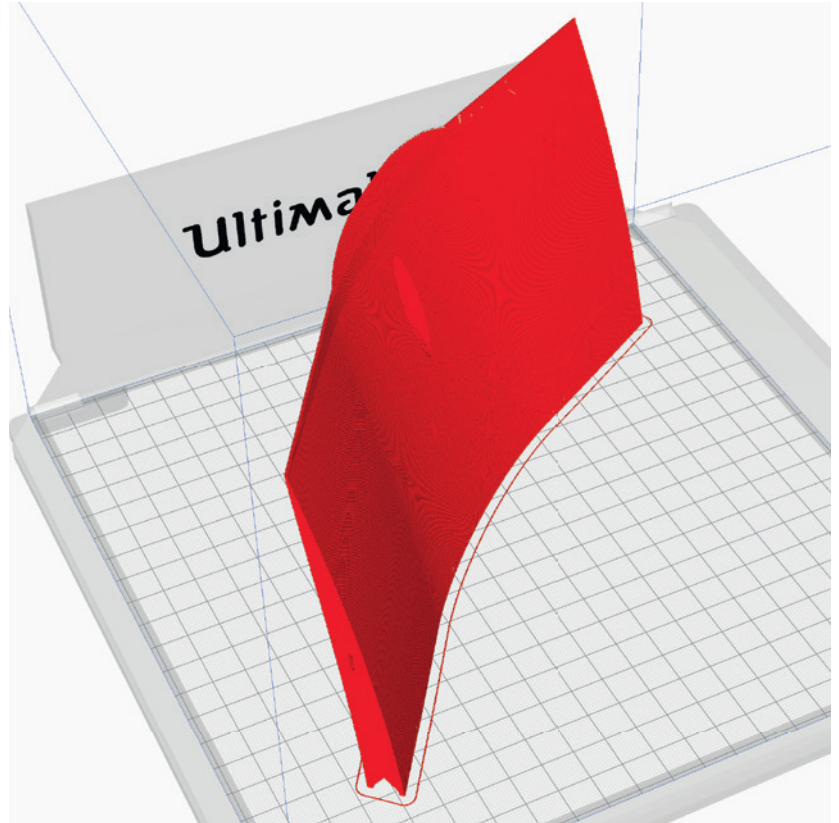
Wing-middle-back_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 35 g*

*Display in Cura. The actual weight is 19 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
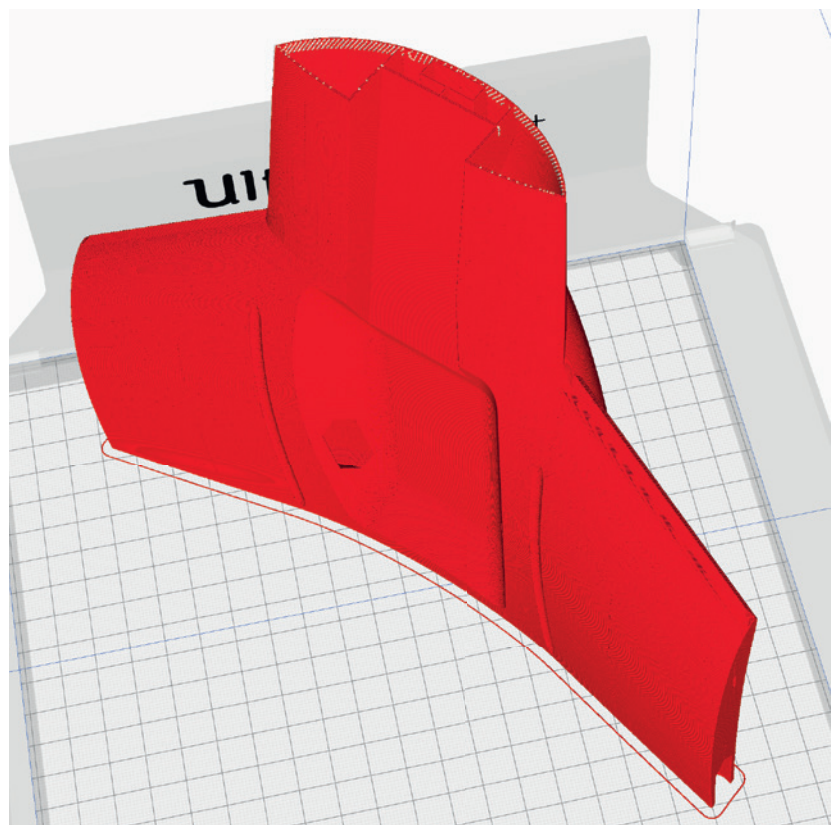

Wing-middle-front_LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 56 g*

*Display in Cura. The actual weight is 30 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

PROFILE P3_SURFACE Light-Weight LW-PLA

The following parts must be sliced with the PROFILE P3_SURFACE (1-wall-print).
Please note the additional settings for the individual parts!

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! Depending on your printer, a brim may not be required.

Wing1-left-LW_profile3_fb.stl
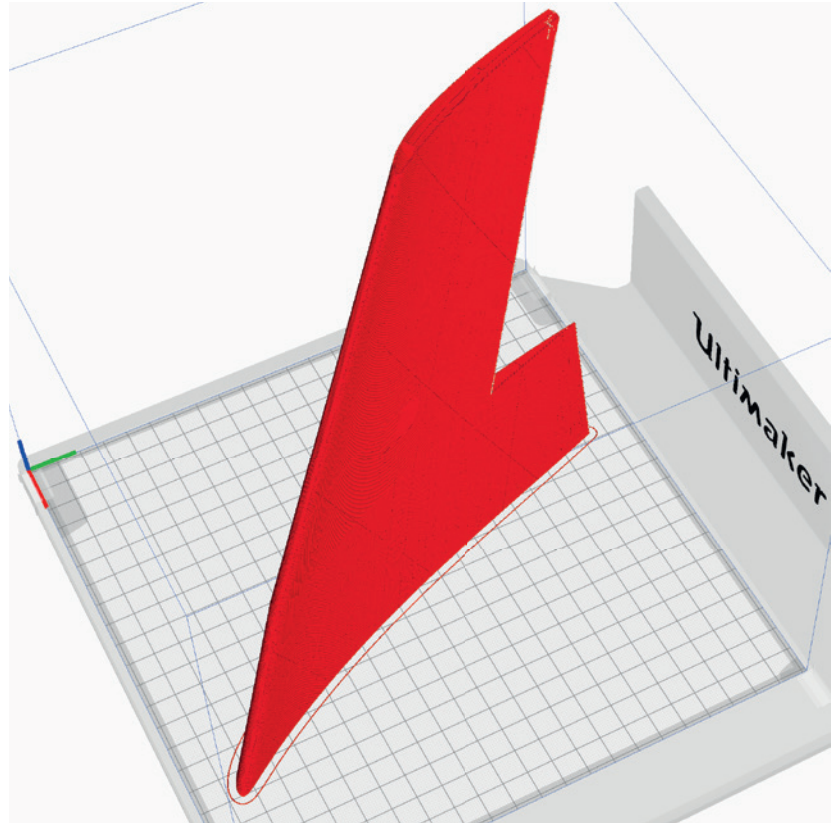## Wing1-right-LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 36 g*

*__Display in Cura__. The actual weight is 19 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).

## Wing2-left-LW_profile3_fb.stl
Wing2-right-LW_profile3_fb.stl

MATERIAL LW-PLA, ~ 16 g*

*__Display in Cura__. The actual weight is 8 grams

ADDITIONAL SETTINGS

- Setting Profile3_Surface
- Flow 60 % or less
- Higher nozzle temperature

The optimal weight and sufficient strength is achieved with 60 % flow. Increase the temperature until the wall thickness is 0.4 to 0.5 mm. (We print at 235° and 60% flow).
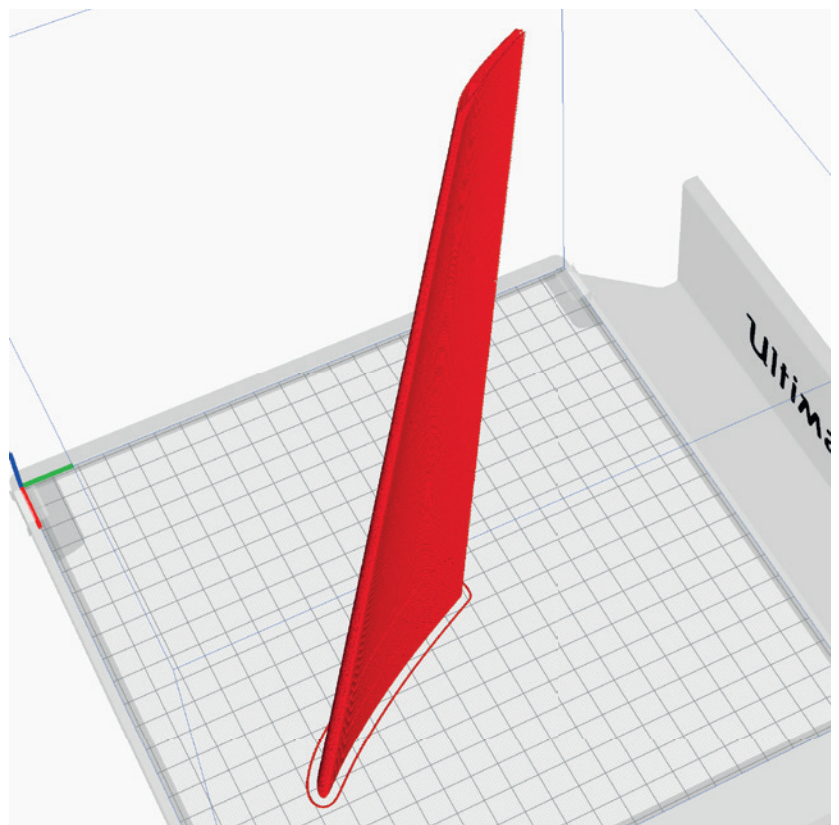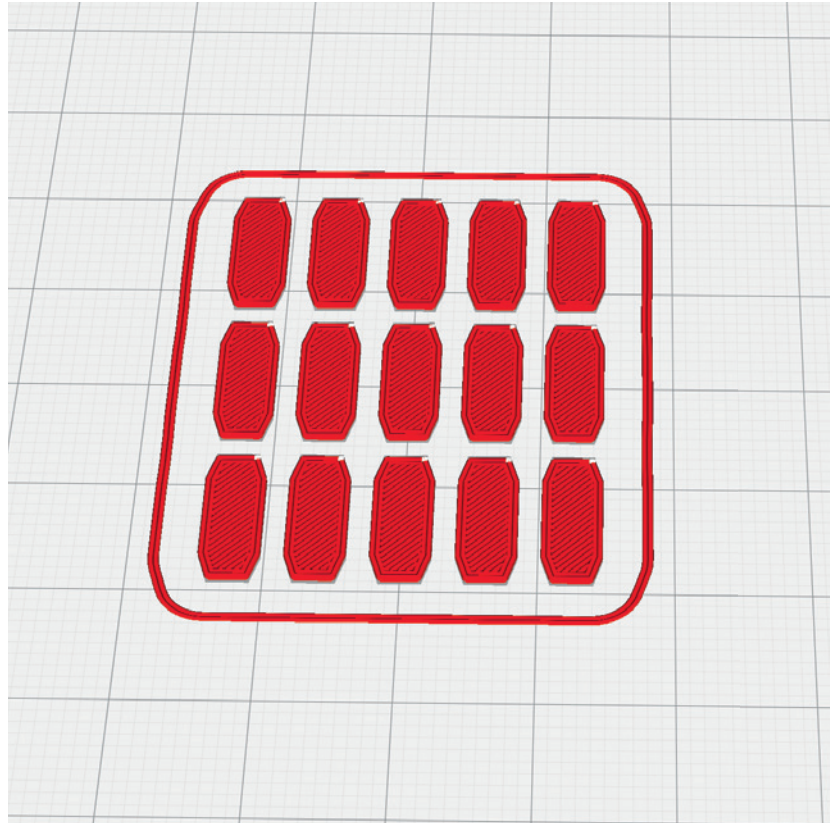
PROFILE P4_FLEX TPU A95

The following parts must be sliced with the PROFILE P4_FLEX.
Please note the additional settings for the individual parts!

Hinges_profile4_fb.stl

MATERIAL   TPU ~ A95, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required

REQUIRED ACCESSOIRES

Filament

• normal PLA about 50 grams
• LW-PLA about 400 grams **(ABSOLUTELY NECESSARY)**
  We recommend using white (natural) LW-PLA, which heats up much less in direct sunlight.
• TPU (A95) about 5 grams

Materials

• some tapping screws Ø2*8 mm
  (simply search for: M2 flat head tapping screw assortment)
• CA super glue (liquid and liquid medium)
• CA activator
• Carbon rod Ø2mm about 500mm
• Steel wire Ø0.6mm*1000mm, 2 pieces
  (or Ø0.8mm, max. Ø1mm for the servo linkages)
• small Rod connection, 4 pieces

Rod connection

Tools

• Cutter knife
• small Philips screwdriver
• needle-nose pliers
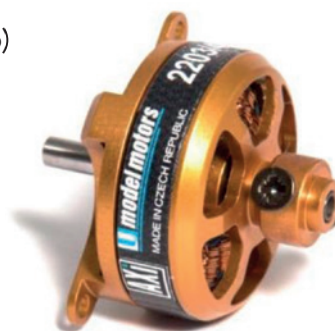
RC COMPONENTS

2S-Setting (Like our Funbus from the official Planeprint video)

`ENGINE`   AXI 2203/40 VPP

`PROP`   APC 9x3.7

But you can also use other motors.
It is important that the motor should have a weight of about 20 grams.
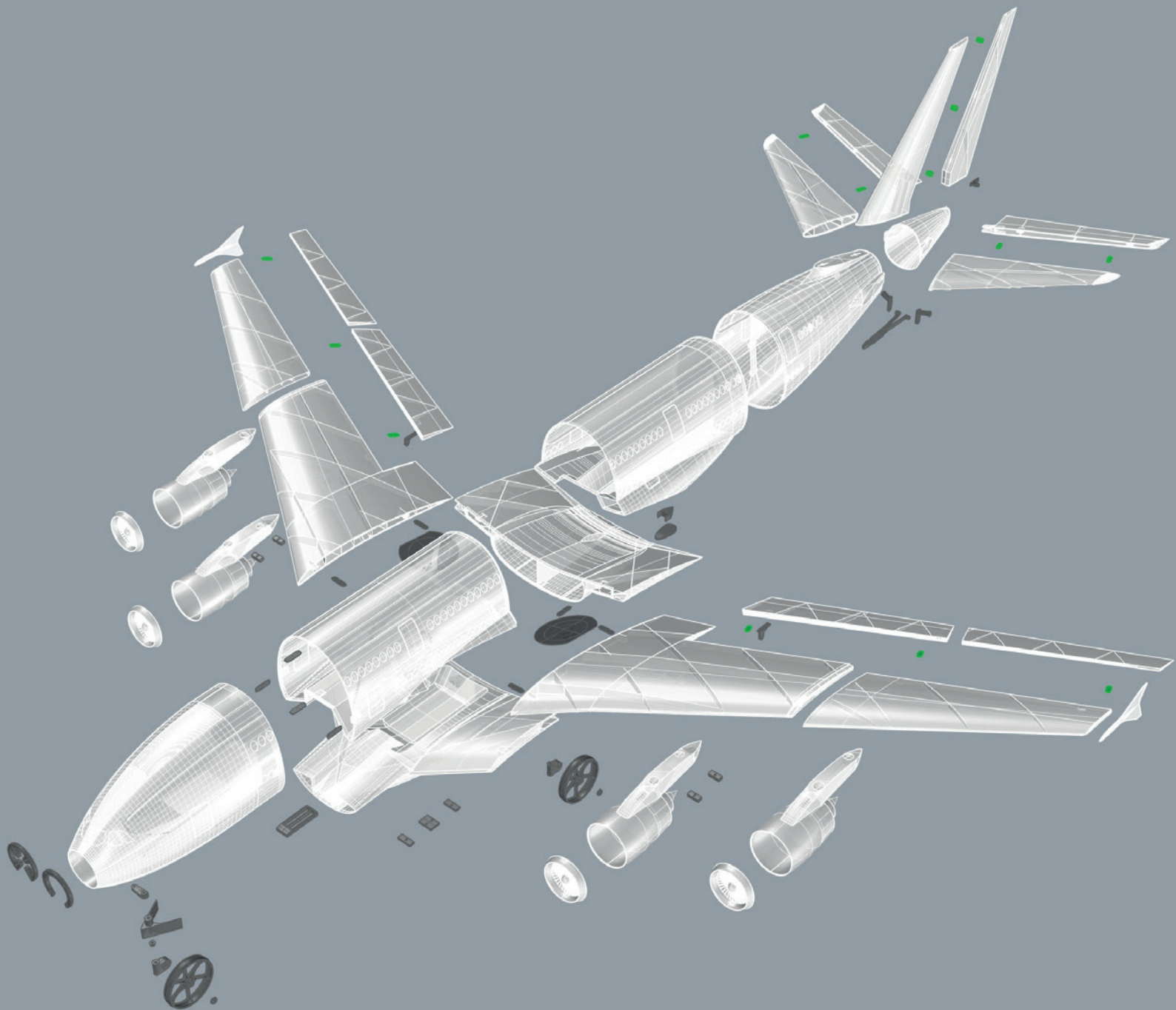
`BEC-CONTROLLER`   one matching the motor

`RECEIVER`   5 Channel

`BATTERY`   2S Lipo, from 350 to 650 MaH

`SERVOS`   • PLANET-HOBBY ECO PLUS
• PICCO 8 DIGITAL SERVO
• Diamond D47
• Hitec HS 40 Eco Servo 4,8g

or similar in the same size, **4 pieces**

PLANE PRINT *Funbus*

LW-PLA   PLA   TPU

ASSEMBLING MANUAL – Basic information

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.

IMPORTANT   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!

Connection pieces
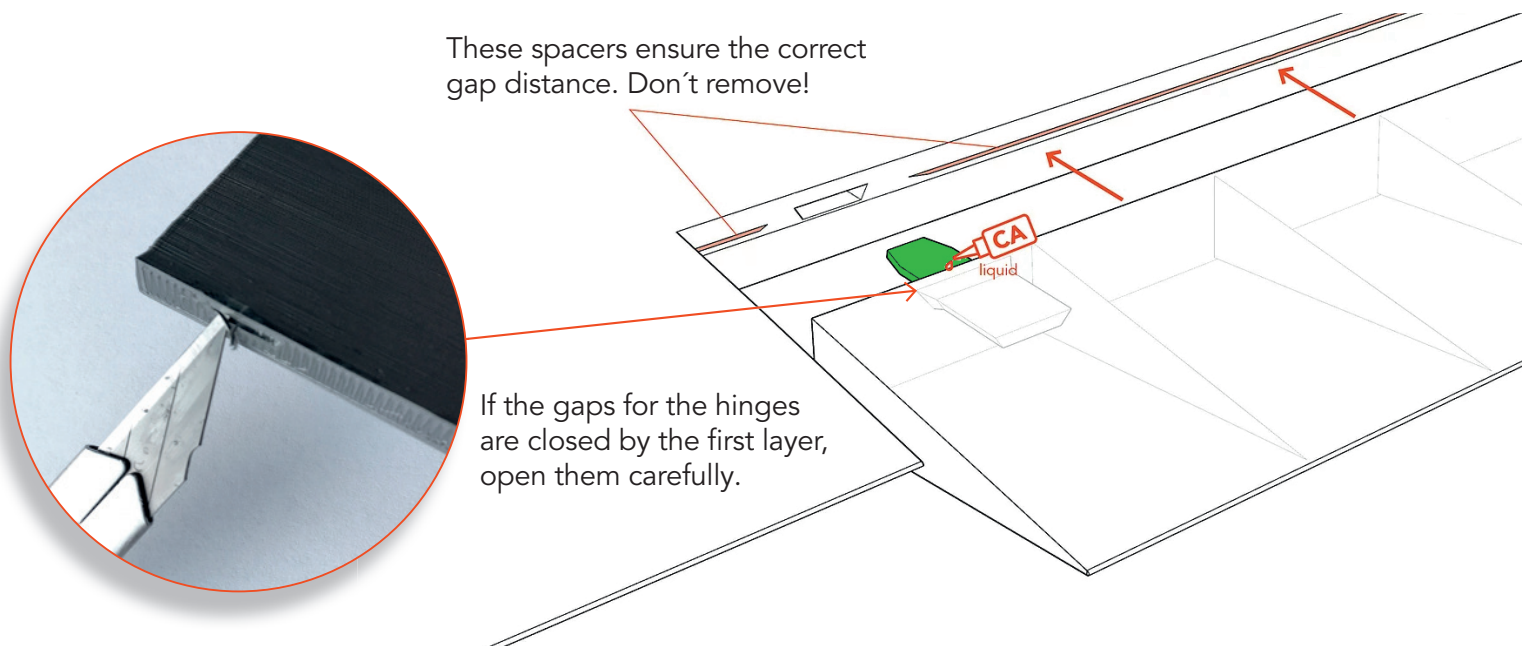
CA
medium l.

This surfaces should be sanded
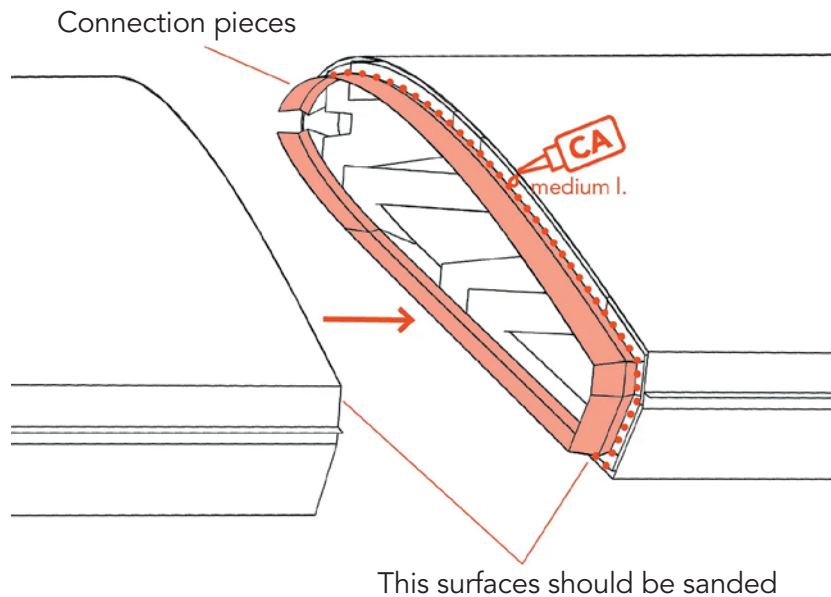
Installation of the TPU hinges

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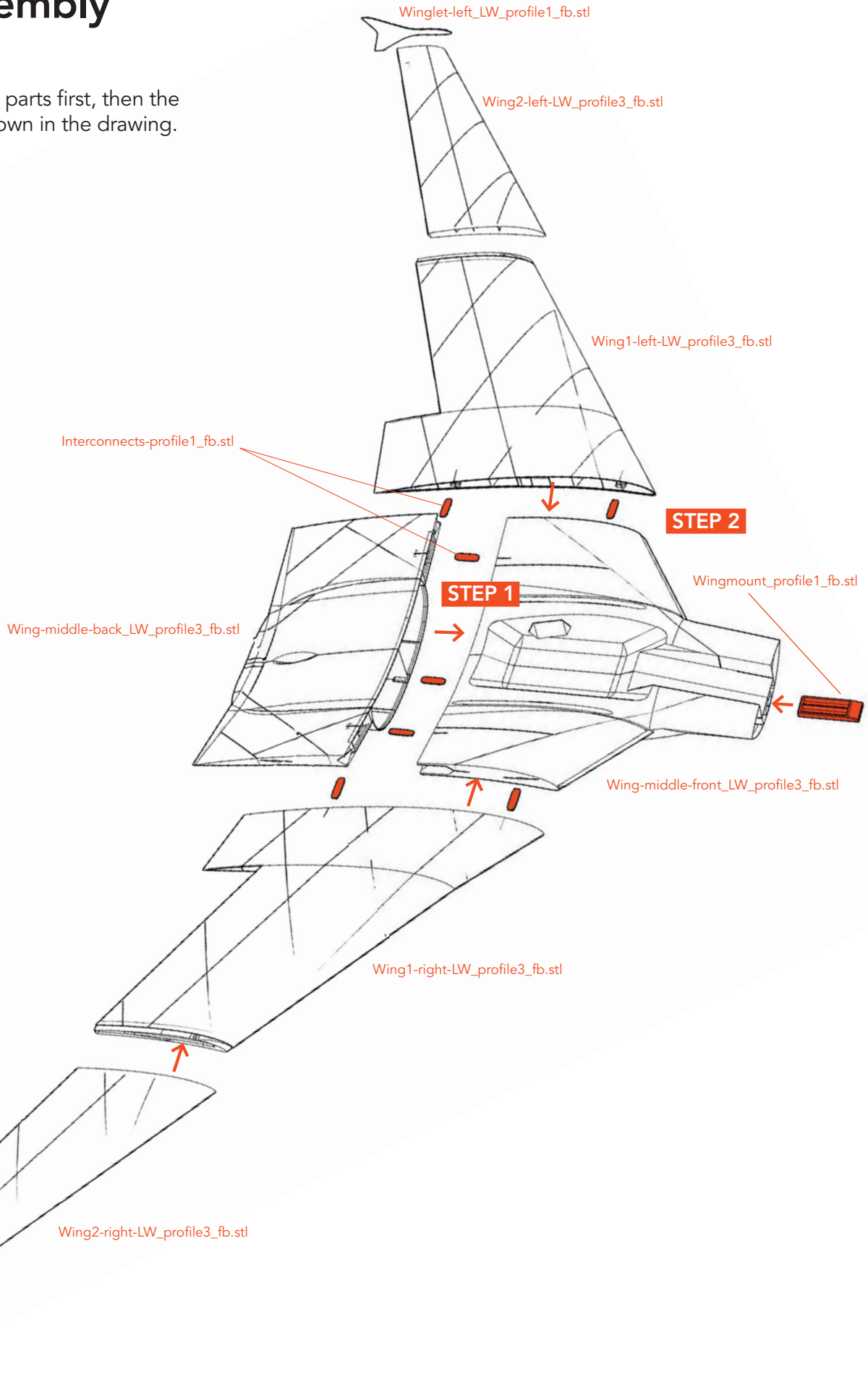Wait for the glue to drain completely, then spray the activator on it.

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.
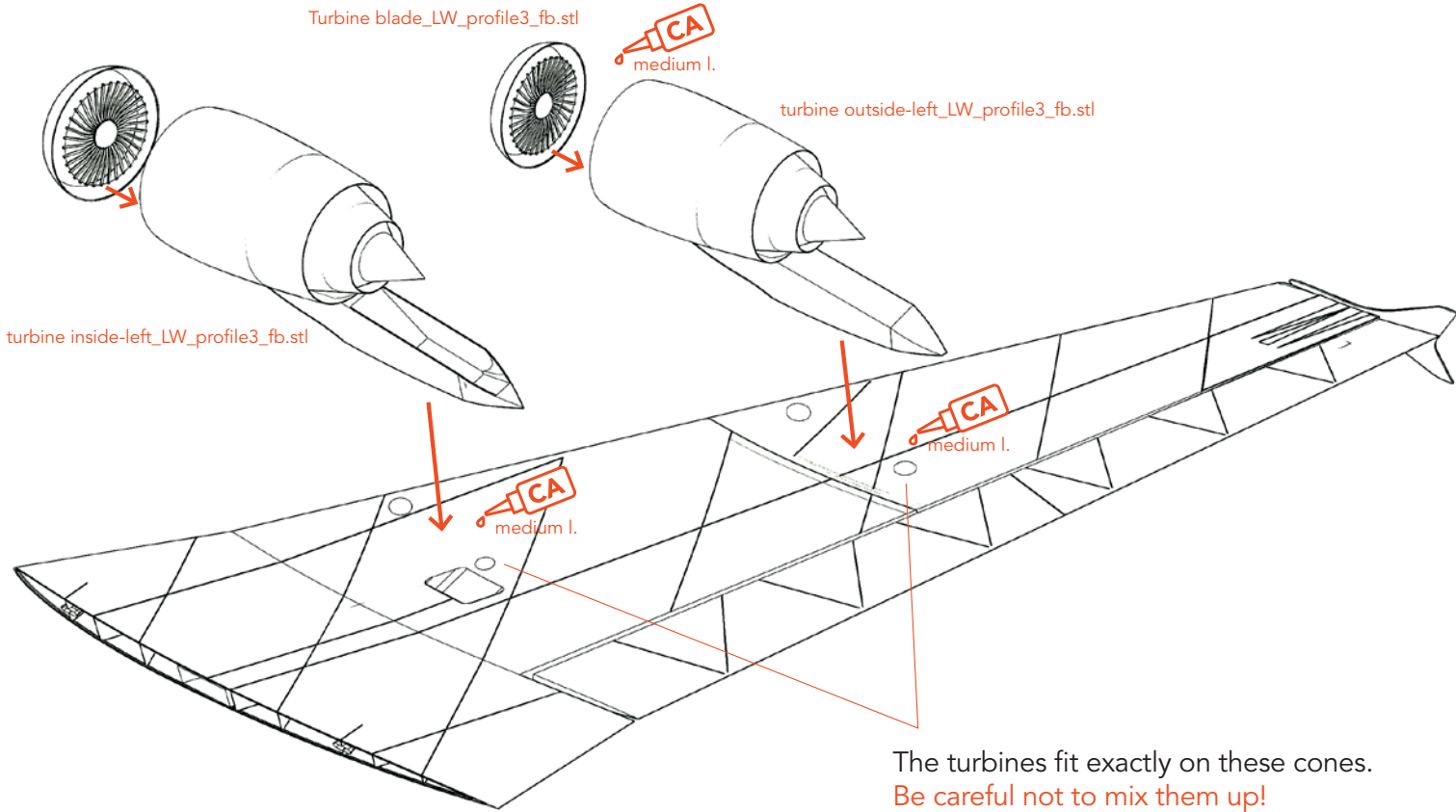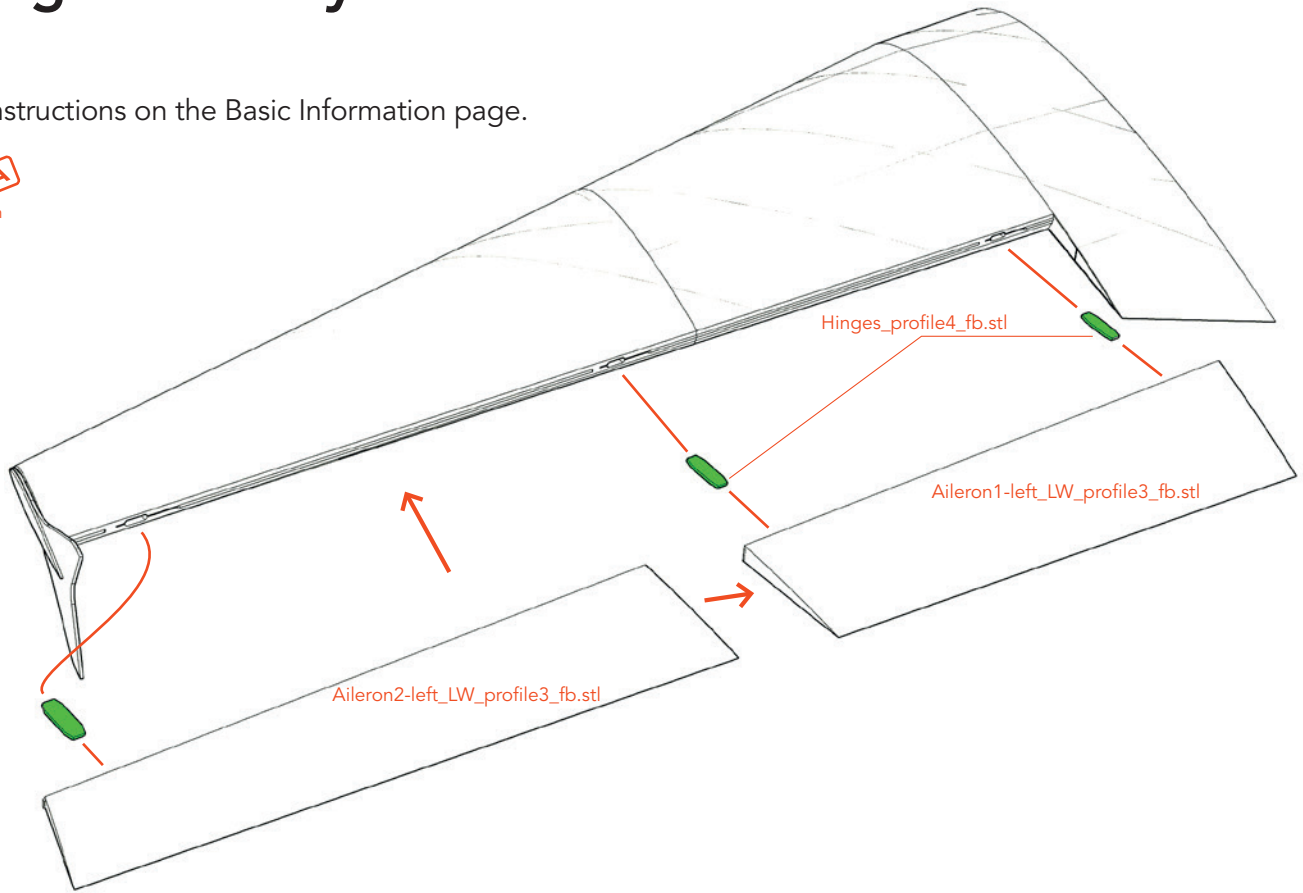**Do not use too much glue, the flap must move easily!**

These spacers ensure the correct gap distance. Don´t remove!

CA
liquid

If the gaps for the hinges are closed by the first layer, open them carefully.

Wings assembly

Glue the middle wing parts first, then the remaining parts as shown in the drawing.

CA
medium l.

Winglet-left_LW_profile1_fb.stl

Wing2-left-LW_profile3_fb.stl

Wing1-left-LW_profile3_fb.stl

Interconnects-profile1_fb.stl

STEP 2

Wingmount_profile1_fb.stl

STEP 1

Wing-middle-back_LW_profile3_fb.stl

Wing-middle-front_LW_profile3_fb.stl

Wing1-right-LW_profile3_fb.stl

Wing2-right-LW_profile3_fb.stl

Winglet-right_LW_profile1_fb.stl

Wings assembly – Ailerons

See instructions on the Basic Information page.

CA thin

Hinges_profile4_fb.stl

Aileron1-left_LW_profile3_fb.stl

Aileron2-left_LW_profile3_fb.stl

Turbine blade_LW_profile3_fb.stl

CA medium l.

turbine outside-left_LW_profile3_fb.stl

turbine inside-left_LW_profile3_fb.stl

CA medium l.

CA medium l.

The turbines fit exactly on these cones.
Be careful not to mix them up!

Fuselage assembly

Assemble the parts as shown in the picture.

CA
medium l.

Fuselage4_LW_profile3_fb.stl

Fuselage3_LW_profile3_fb.stl

Interconnects-profile1_fb.stl

Fuselage2_LW_profile3_fb.stl

It is easier to paint the windows before gluing the parts.

Fuselage1_LW_profile3_fb.stl
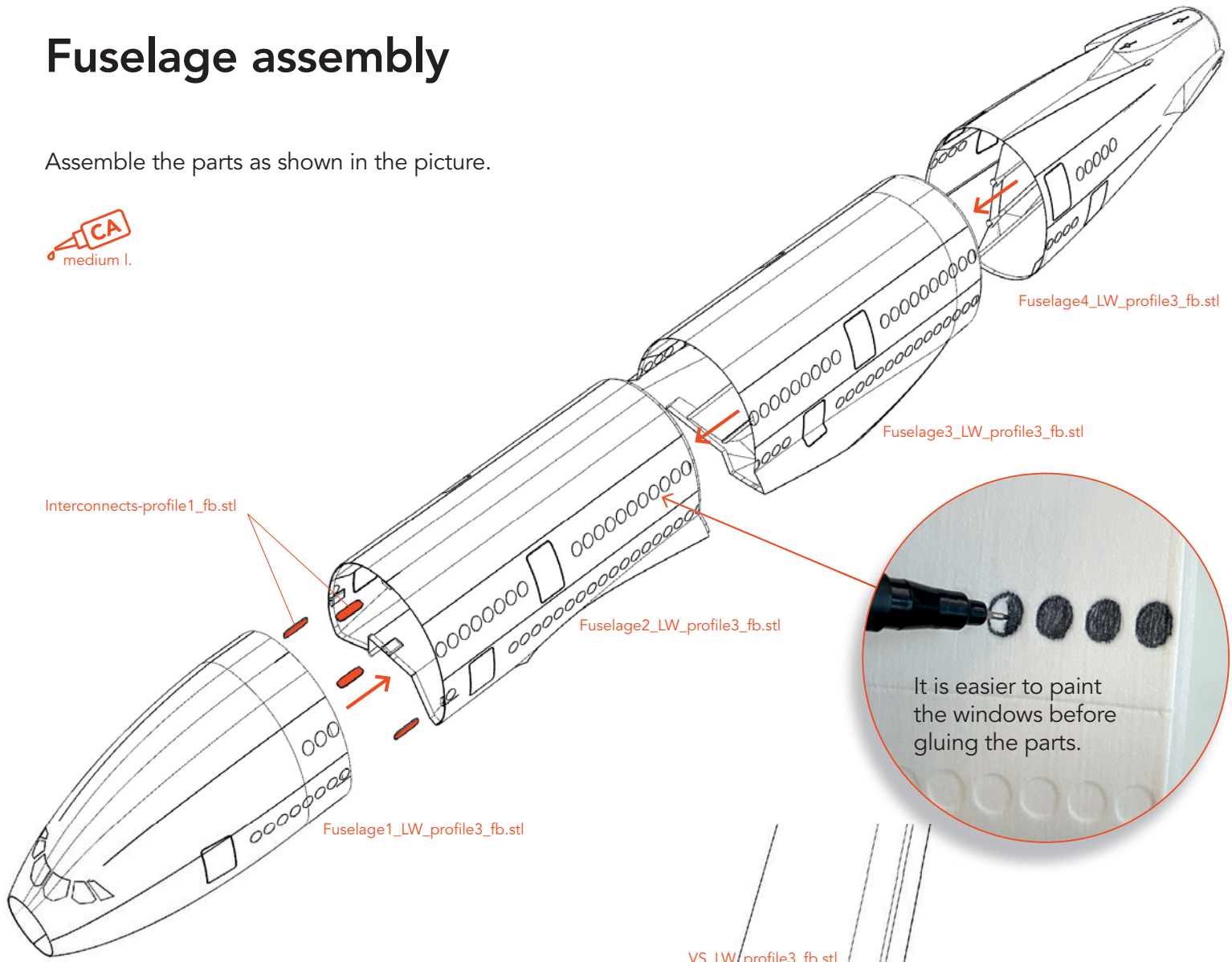
Tailplane assembly

Open the holes with the cutter knife

CA
medium l.

VS_LW_profile3_fb.stl

Carbon rod Ø2*20mm

CA

CA

Carbon rod Ø2*90mm

CA

Carbon rod Ø2*150mm

CA

CA

CA

HS-left_LW_profile3_fb.stl

CA

Fuselage4_LW_profile3_fb.stl
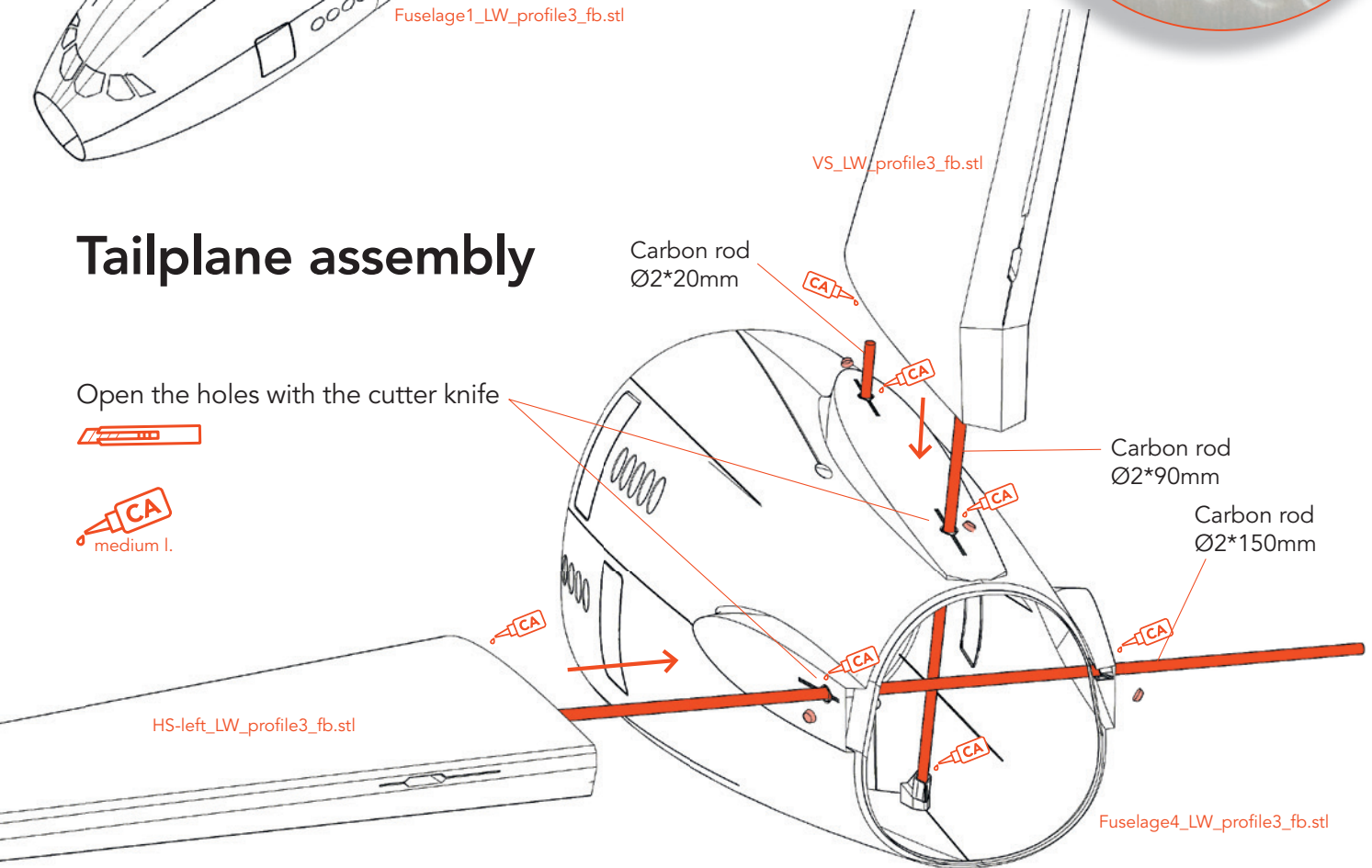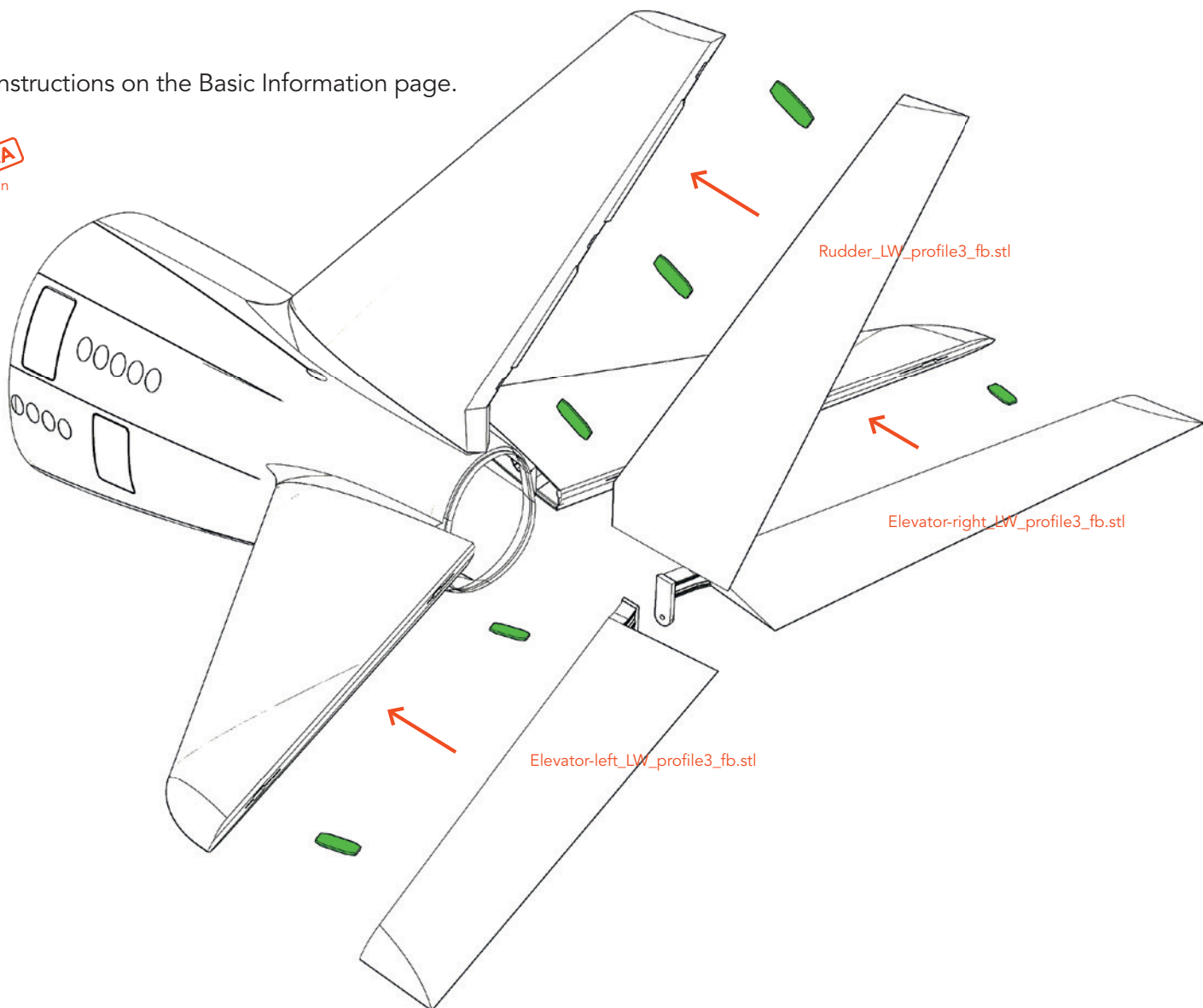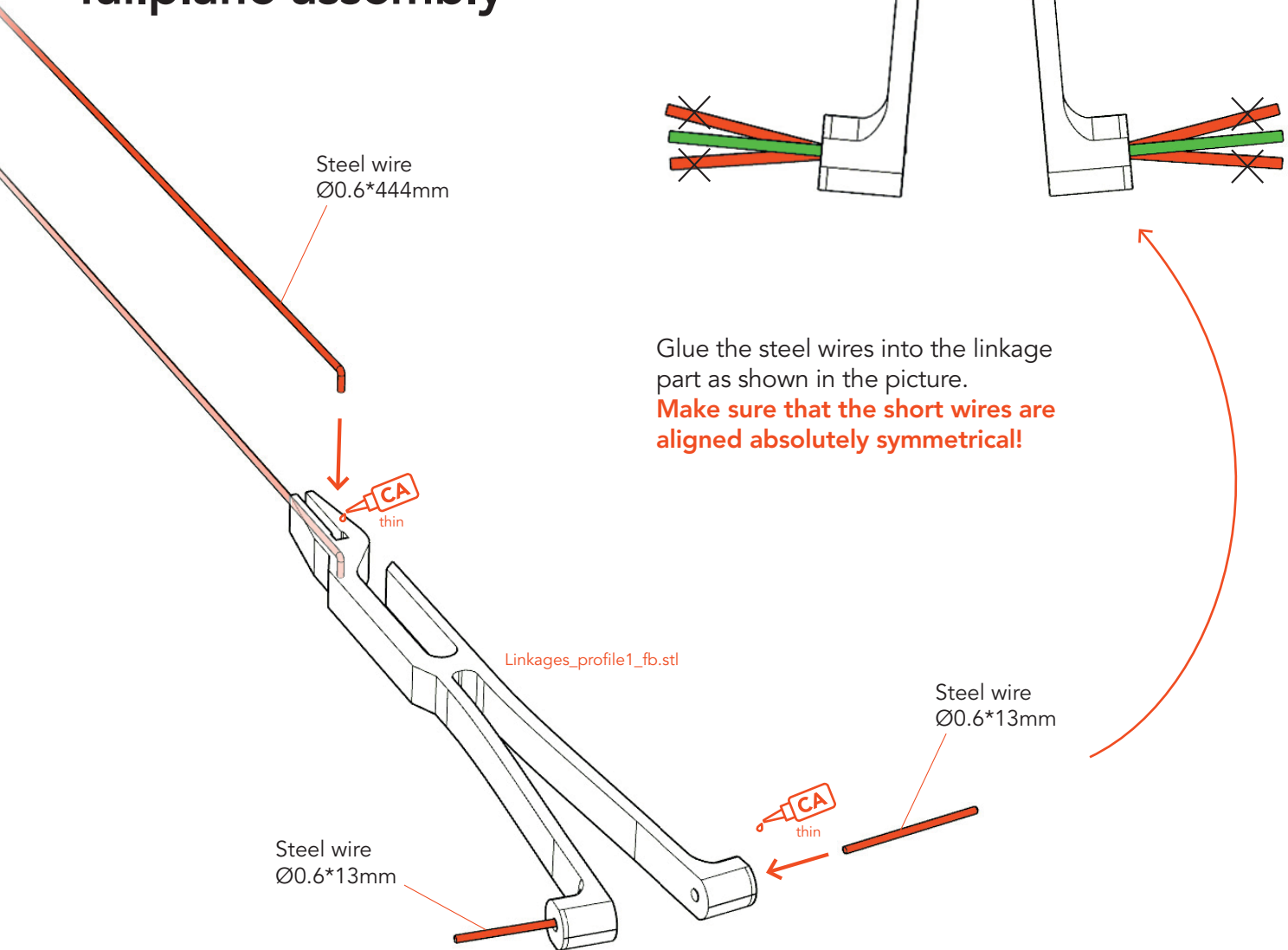
Tailplane assembly

Glue the linkages into the elevator and make sure they are **absolutely symmetrical**! The linkages must point downwards.

HS-left_LW_profile3_fb.stl

Linkages_profile1_fb.stl

See instructions on the Basic Information page.

CA
thin

Rudder_LW_profile3_fb.stl

Elevator-right_LW_profile3_fb.stl

Elevator-left_LW_profile3_fb.stl

Tailplane assembly

Steel wire
Ø0.6*444mm

CA
thin

Linkages_profile1_fb.stl

Glue the steel wires into the linkage part as shown in the picture.
Make sure that the short wires are aligned absolutely symmetrical!
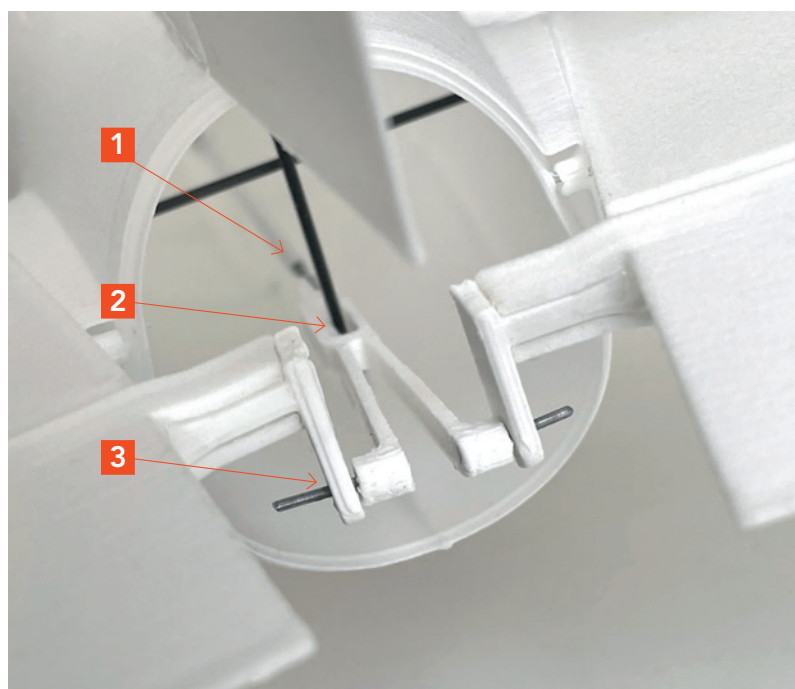
Steel wire
Ø0.6*13mm

CA
thin

Steel wire
Ø0.6*13mm
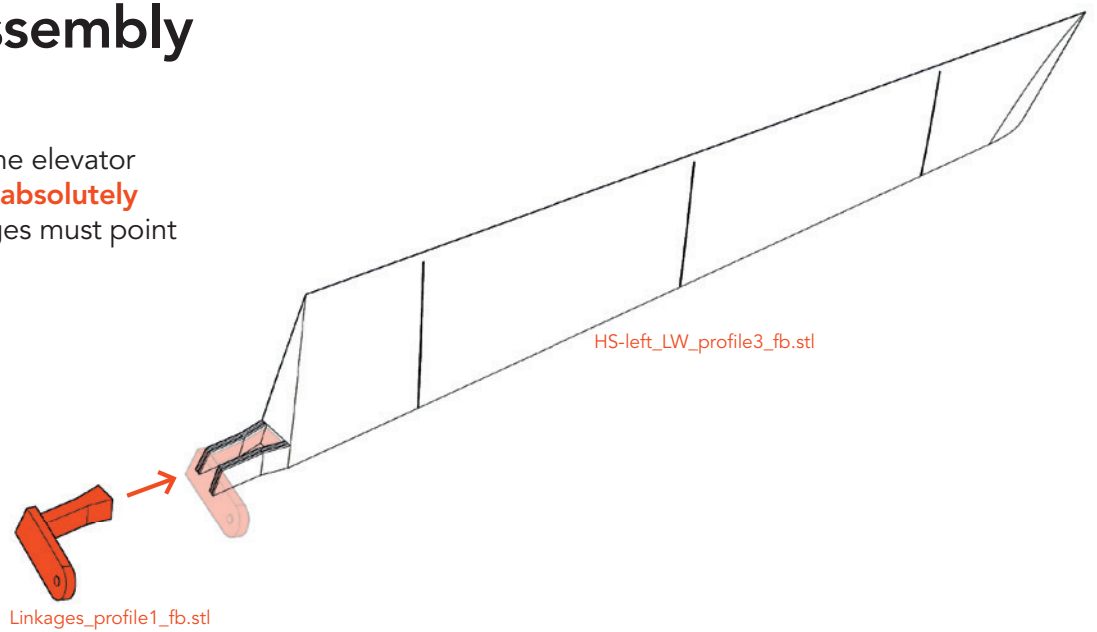
1 Insert the long wire into the bowden and position the linkage as shown in the photo.
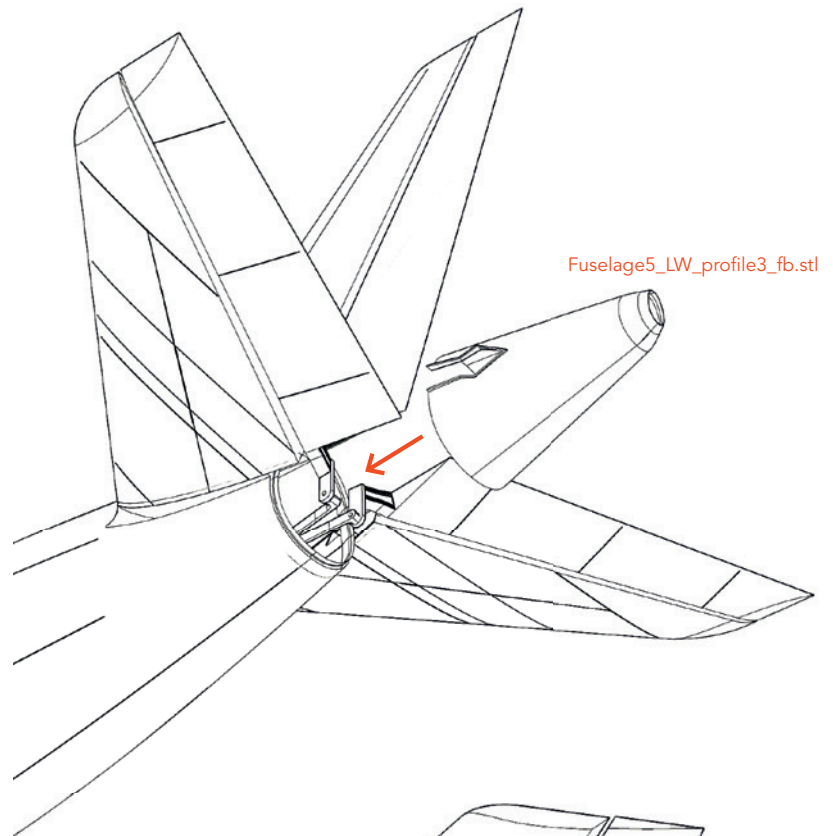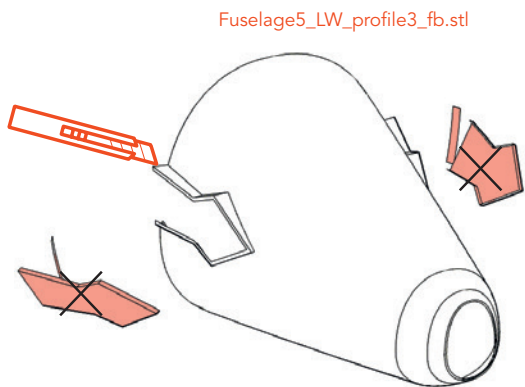
2 The carbon rod of the vertical stabilizer must run in the gap of the linkage!

3 The short wires are simply inserted into the holes and do not need to be secured.

FUNBUS

Tailplane assembly

Make sure the elevators move easily and accurately. Remove the support from fuselage 5 and glue it to fuselage 4.

Fuselage5_LW_profile3_fb.stl

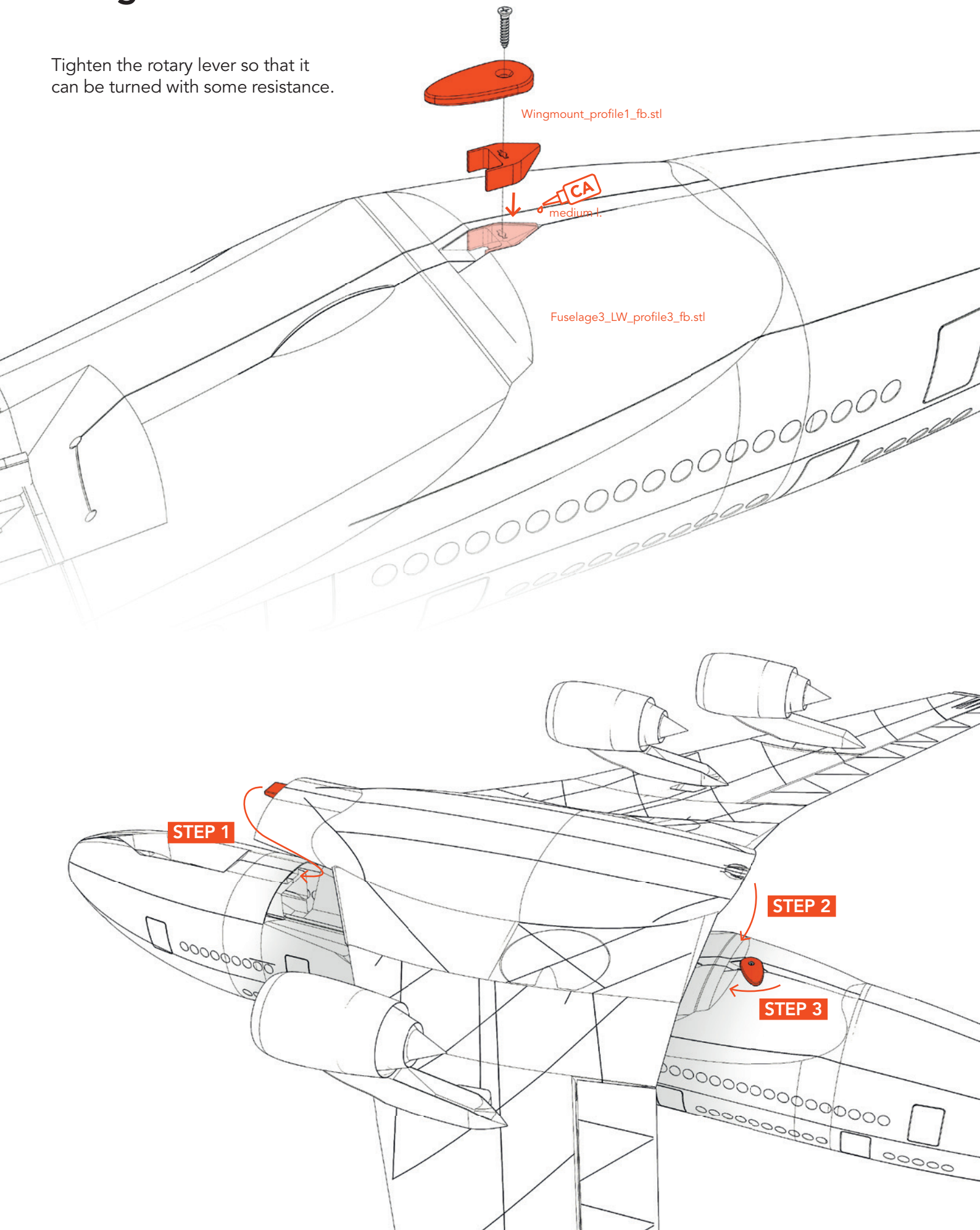Fuselage5_LW_profile3_fb.stl

Rudder linkage: bend the steel wire and connect it to the linkage lever. Then glue it to the rudder as shown in the picture. Make sure that it is in line with the axis of rotation when viewed from the side.
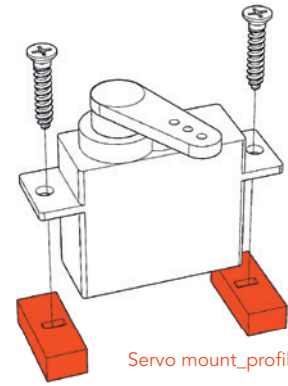
Steel wire
Ø0.6*480mm

CA
medium l.

Linkages_profile1_fb.stl
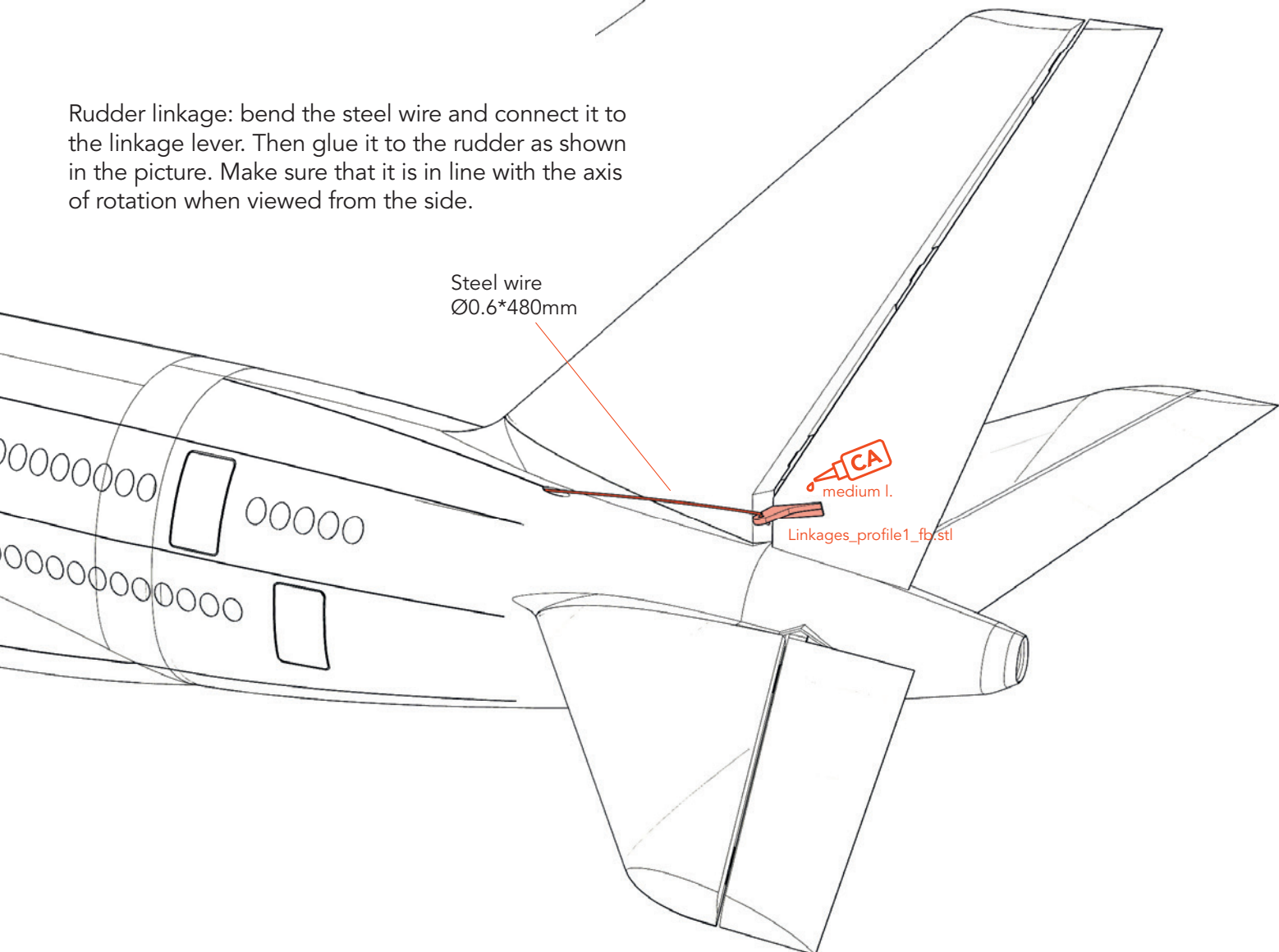
Wing mount

Tighten the rotary lever so that it can be turned with some resistance.

Wingmount_profile1_fb.stl

CA
medium l.

Fuselage3_LW_profile3_fb.stl
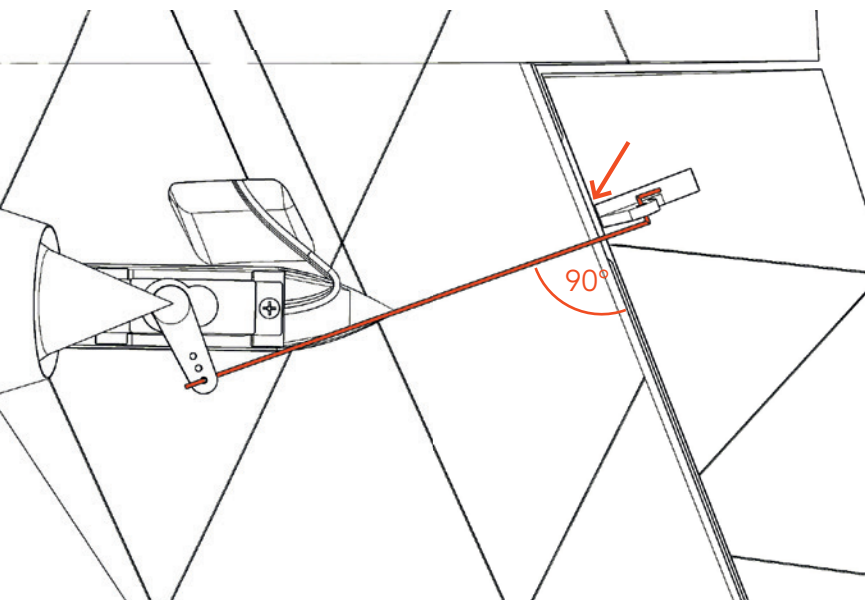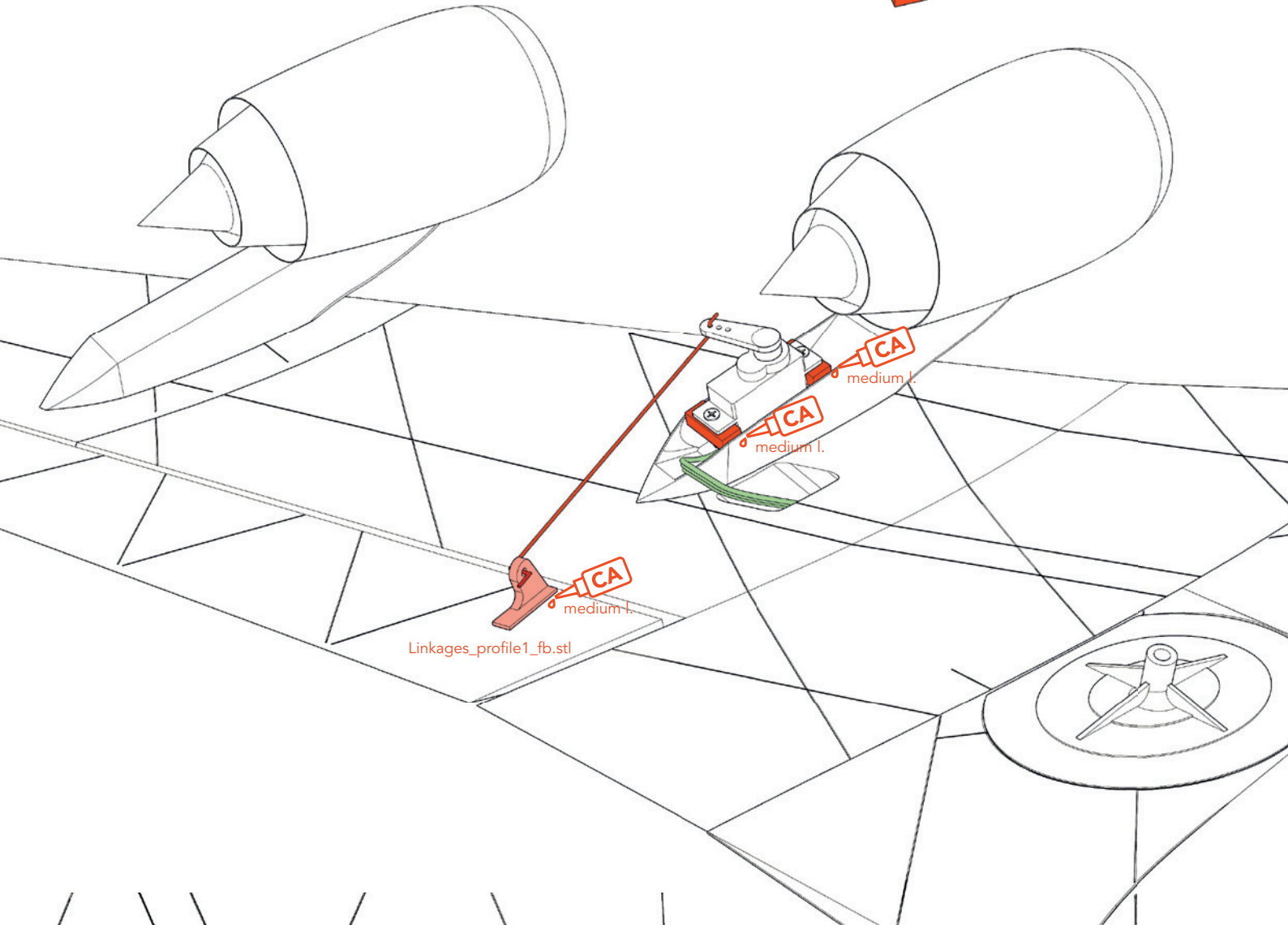
STEP 1

STEP 2

STEP 3

Aileron servo mounting

Mount the servo as shown in the picture. Feed the cable through the cable duct.

Servo mount_profile1_fb.stl

Servo mount_profile1_fb.stl
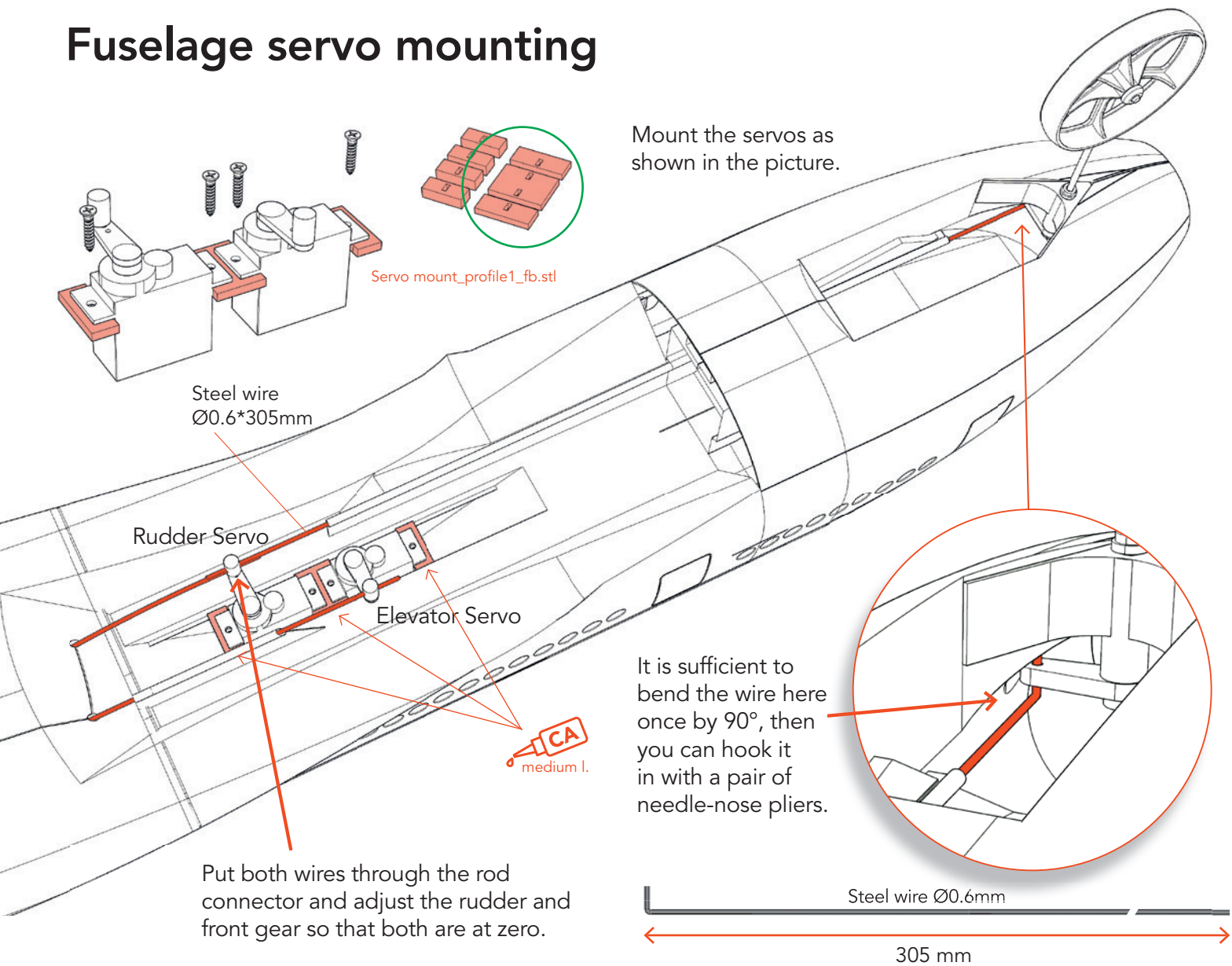
CA medium l.

CA medium l.
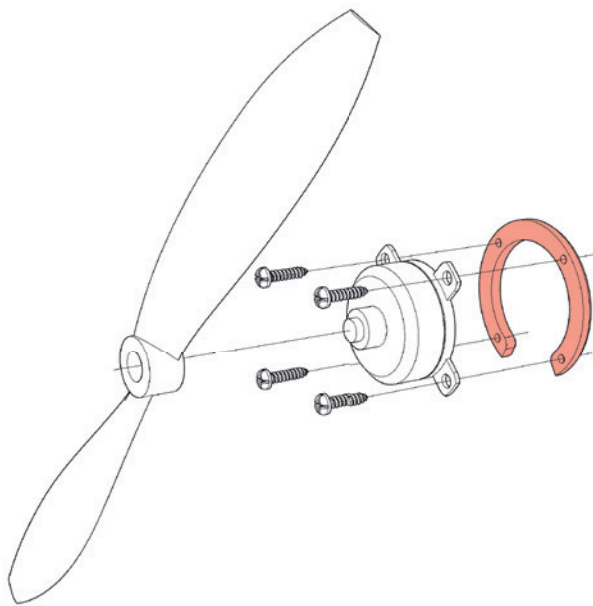
CA medium l.

Linkages_profile1_fb.stl

90°
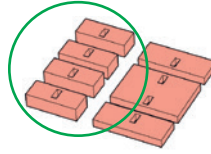
The servo arm must be mounted at an angle in the zero position (see picture) so that the linkage is at right angles to the axis of rotation of the aileron. Bend a steel wire to the exact length necessary to position the linkage lever on the edge of the aileron.

Gear assembly

CA

medium l.

Gear main_profile1_fb.stl

CA

Carbon rod
Ø2*90mm

CA

CA

Carbon rod
Ø2*20mm

Gear main_profile1_fb.stl

Make sure that no glue gets into the wheel axle and that the wheel can be turned easily!

When gluing the front gear together, make sure that the linkage lever is at exactly 90° to the wheel. **The steering and the wheel must move easily!**

CA

Fuselage1_LW_profile3_fb.stl

Gear front_profile1_fb.stl

CA

CA

medium l.

Carbon rod
Ø2*100mm

CA

CA

Gear front_profile1_fb.stl

Carbon rod Ø2*20mm

Fuselage servo mounting

Mount the servos as shown in the picture.

Servo mount_profile1_fb.stl

Steel wire Ø0.6*305mm

Rudder Servo

Elevator Servo

CA
medium l.

Put both wires through the rod connector and adjust the rudder and front gear so that both are at zero.

It is sufficient to bend the wire here once by 90°, then you can hook it in with a pair of needle-nose pliers.

Steel wire Ø0.6mm

305 mm

Motor mounting

SAFETY FIRST Use appropriate screws for motor mounting to ensure safe operation! Make sure the prop runs smoothly and does not generate vibrations. **Check regularly that the motor mounting is absolutely tight!**

First screw the motor to the matching motor mount and then insert it into the fuselage 1. Then align the motor so that it points approx. 1.5 degrees **downwards** and 1.5 degrees to the **right** (viewed from above). If your prop turns to the left, the motor must point to the left. Then glue the motor mount well to the fuselage 1.
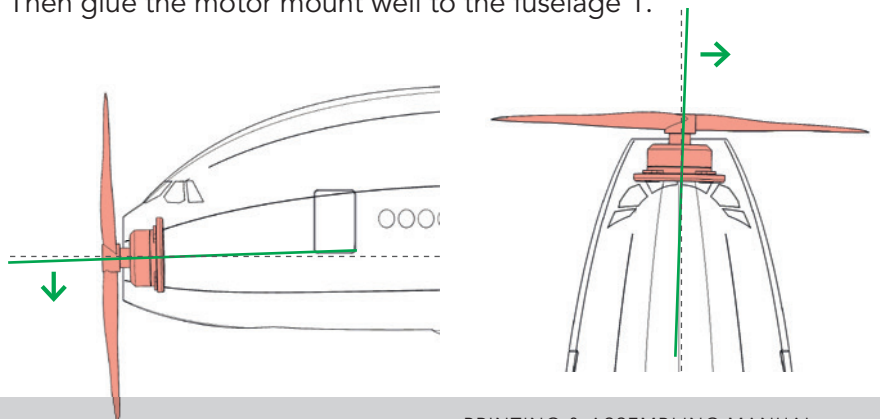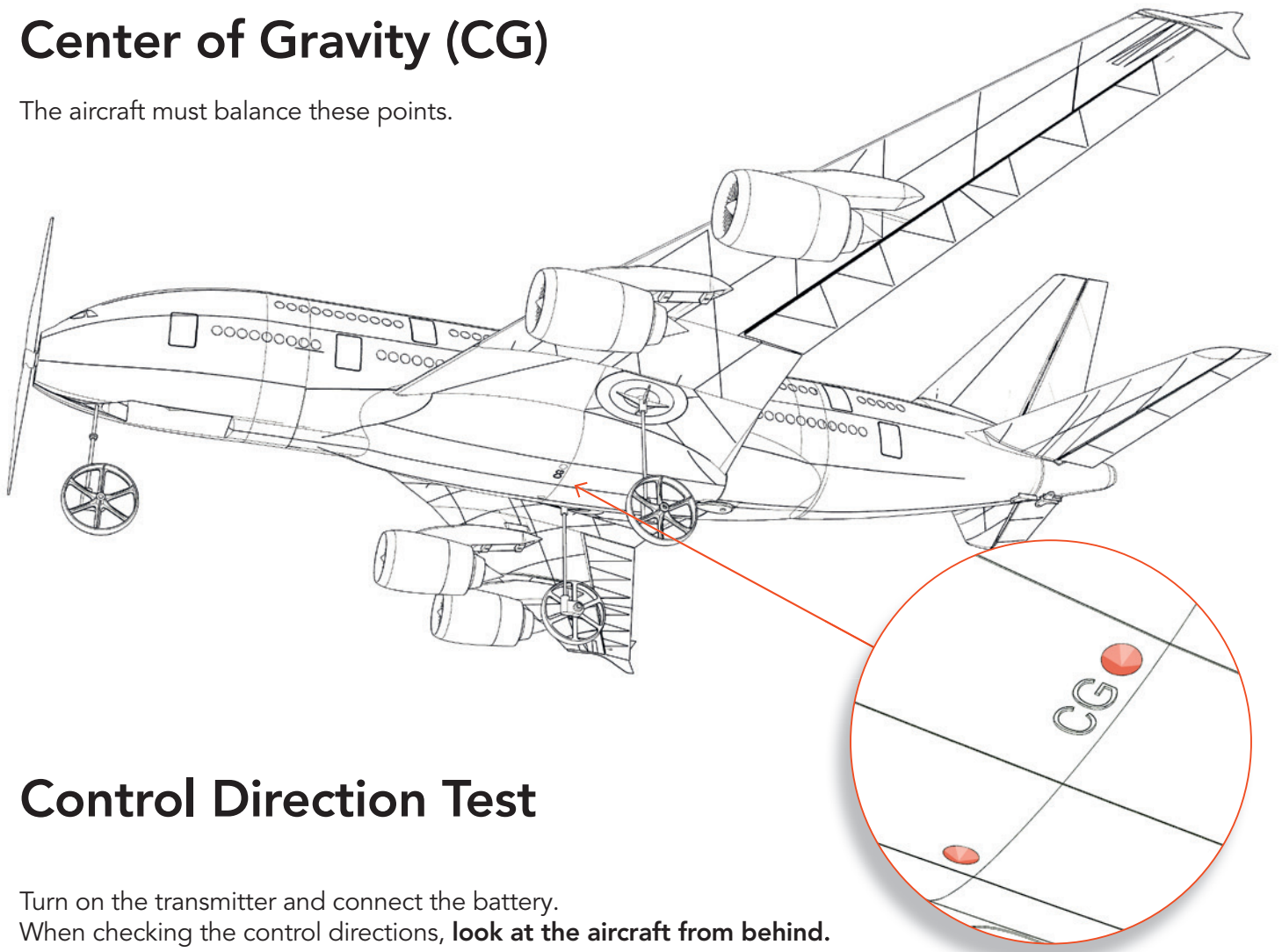
RC components
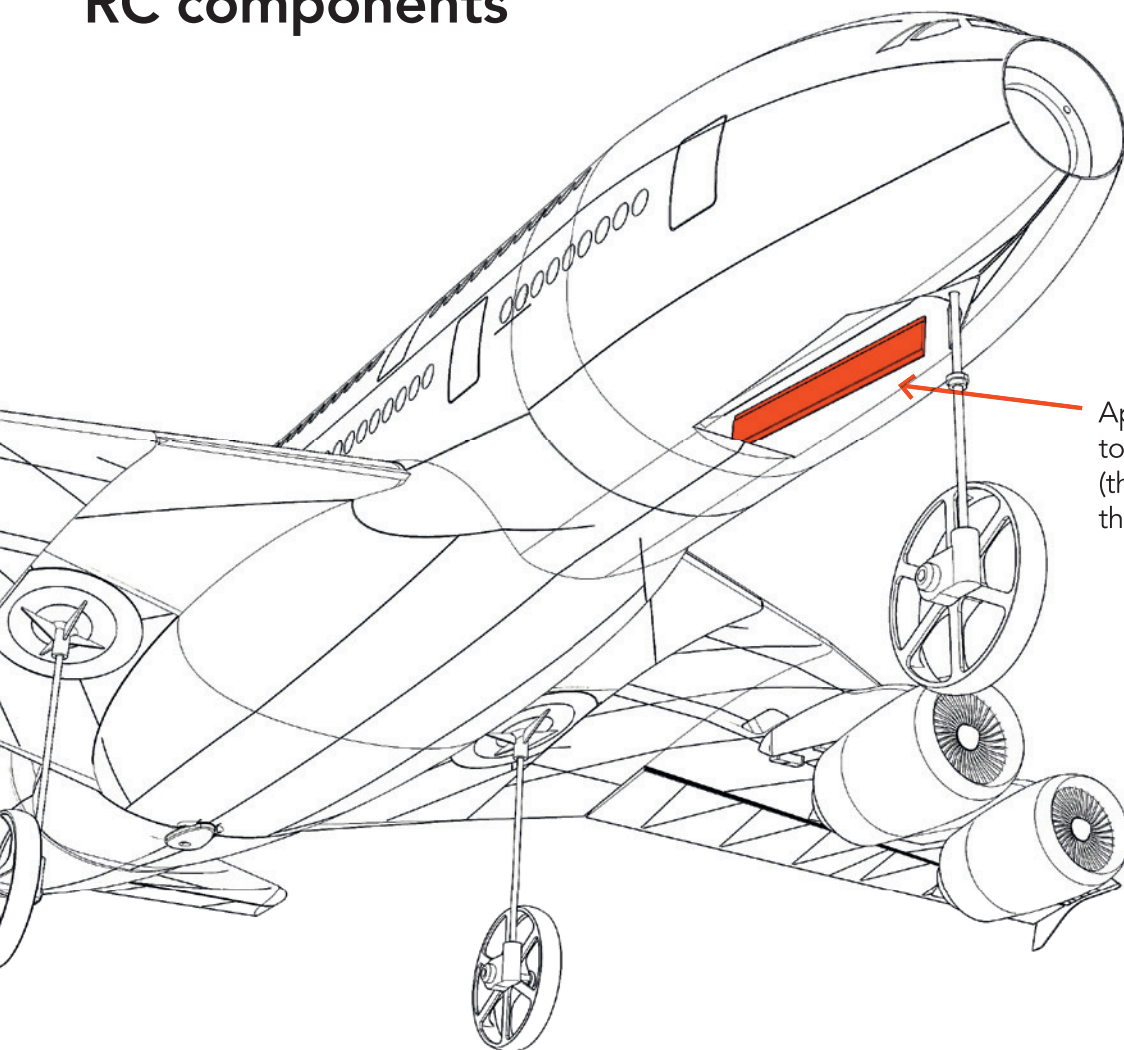
Apply self-adhesive Velcro tape to the **left side** of the fuselage (this area is reinforced) to attach the battery.

Servos

Motor

Controller

Receiver
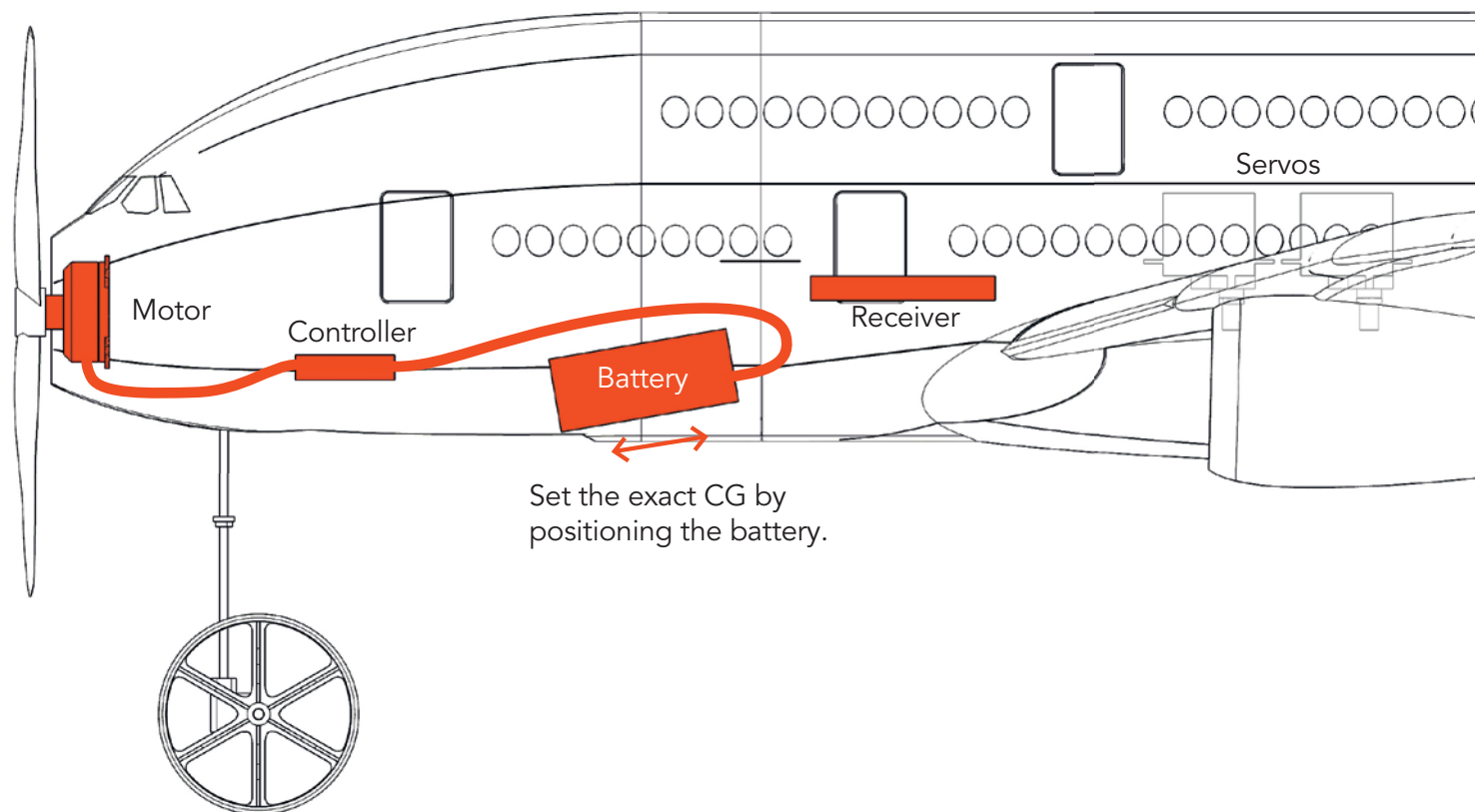
Battery

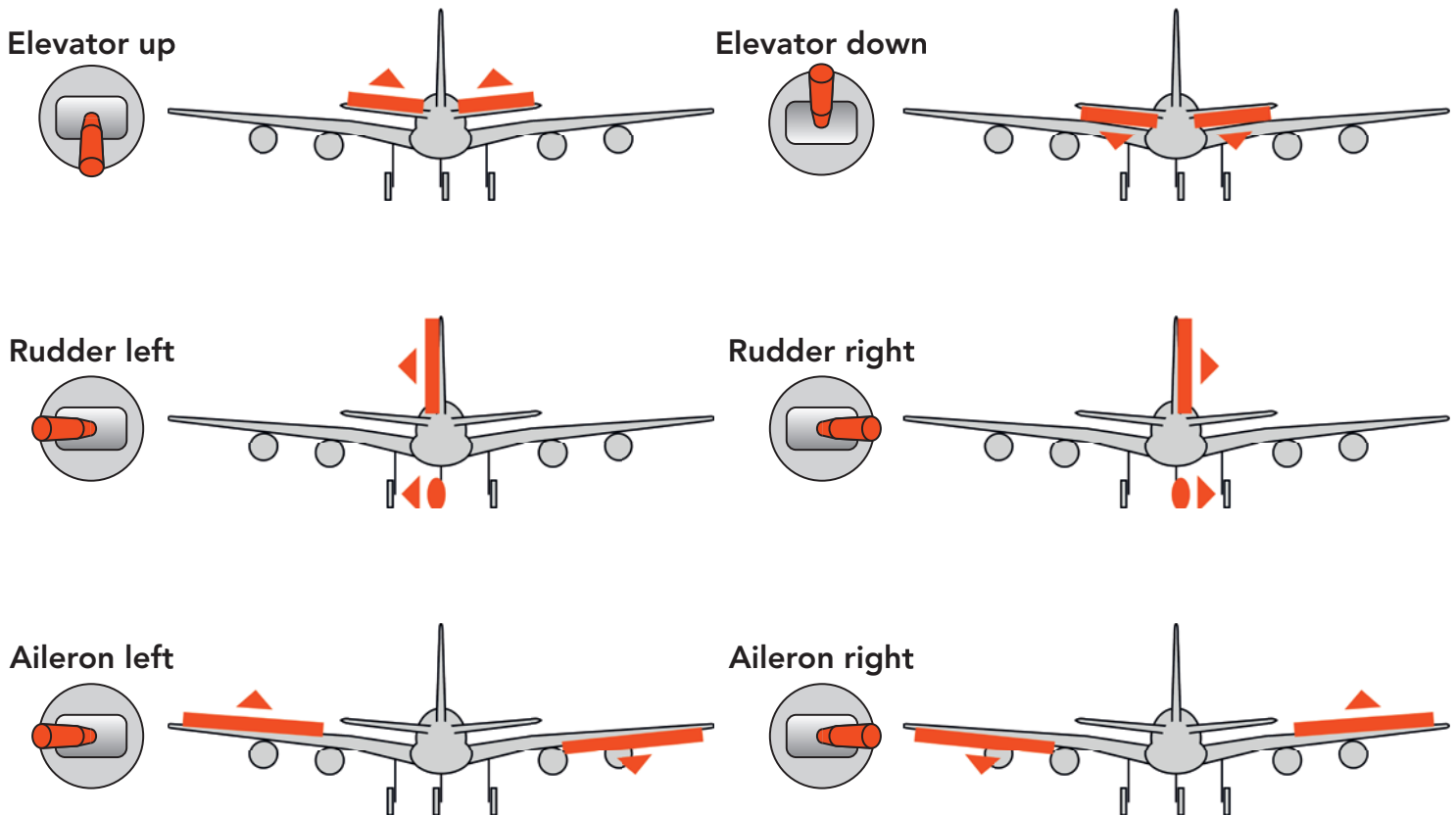Set the exact CG by positioning the battery.

Center of Gravity (CG)

The aircraft must balance these points.

Control Direction Test

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

Elevator up

Elevator down

Rudder left

Rudder right

Aileron left

Aileron right

SETTINGS FOR FLYING

After installing the electronics and setting up the transmitter, check that the control surfaces are aligned correctly. Set the transmitter trim to zero. Align all rudders to zero position. Before switching on for the first time, reduce the maximum travel significantly so that the rudders cannot touch anything.

Setting the servo travel
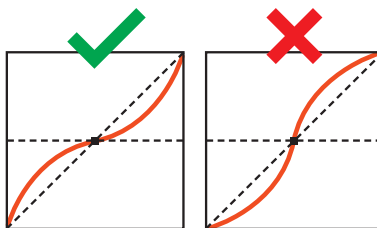
ELEVATOR up: 12 mm, down: 12 mm

AILERON up: 12 mm, down: 10 mm

RUDDER left/right: 16 mm

Expo setting

ELEVATOR 20 %   **RUDDER** 0 %

AILERON 20 %

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

Flight timer

Flight time will vary depending on the battery size. Expect 3 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.

TECHNICAL SPECIFICATIONS

WINGSPAN 1000 mm/39.3 inches

LENGHT 850 mm/33.4 inches

FLIGHT WEIGHT 390 grams (with 2S/350MaH-Battery)
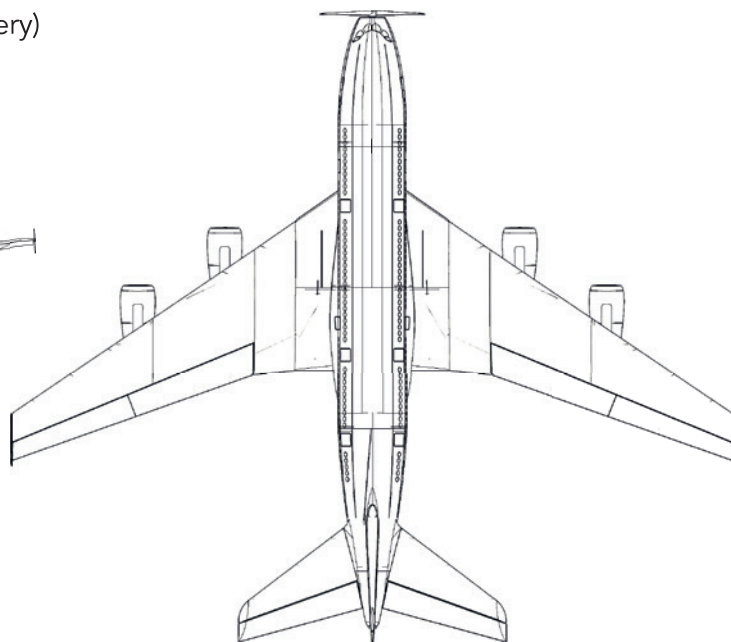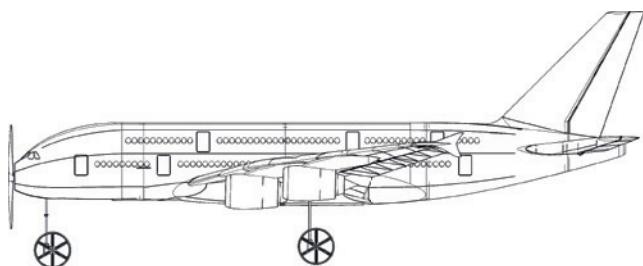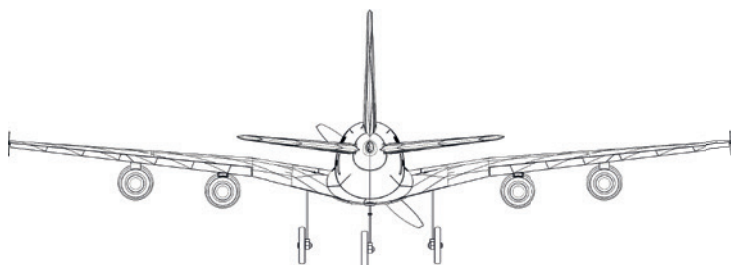
AGE RECOMMENDATION 14+

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!

PLANE PRINT.com

very light 3d printable rc planes