

# PRINT LEARJET 35





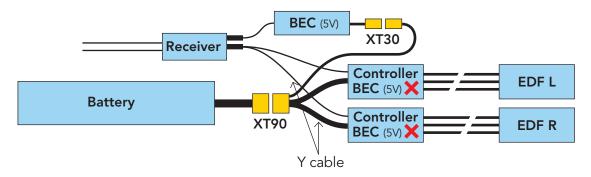


# **RC Components**

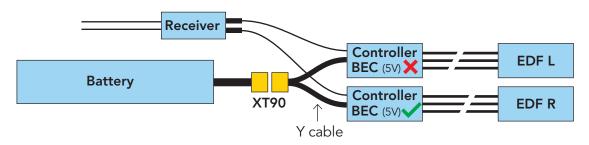
ENGINE 2 pieces EDF 70 MM 3060-KV1900 (FMS) or equivalent

CONTROLLERS 80A ESC X 2 with 8A BEC EC5 For 70mm A-10 V2 (FMS) or equivalent

OPTION 1: you can either use two controllers without BEC and an external supply for the servos.



**OPTION 2: two BEC controllers** and **deactivate** the BEC on **one** of them (Pull the red + cable out of the plug)



**RECEIVER** 12 Channel (or at least 10 channels if you do without the gear doors)

BATTERY 6S LiPo-Battery, 5000 - 6000 mAh (Ideal weight 690g)

5 pieces Quality servos (plus one if you want to control the elevator with two servos)
like KST A12-610 V8.0 SG digital or equivalent (for important functions such as AIL, Flaps, ELE)
Metal gears should be preferred for the important functions such as elevator, ailerons, flaps!
We advise against very cheap servos, safety first!

3 pieces like Corona 929MG, Hitec HS55, Savöx SH-0254 or equivalent

SERVO CABLE EXTENSIONS

**800 mm 1 piece** – Elevator

**500 mm 2 pieces** – Nose gear steering/door

**300 mm 4 pieces** – Aileron and Flaps Fuselage

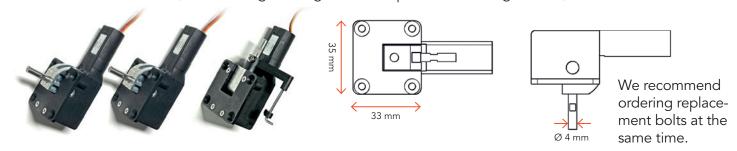
200 mm 2 pieces – Aileron Wings

Distribution cable one to three 1 piece – Retract

SERVOLESS RETRACTS

Two normal and one steerable Nose Wheel

(we used: 40g Landing Gear, AliExpress – for 3.500g Models)



Hole spacing 28 mm

max. 35 mm

max. 13 mm

# Required accessoires - basic equipment

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

- LW-PLA foaming! (cannot be replaced by PLA!), ~1600 grams
- Tough PLA, ~300 grams
- TPU A95 and LW-TPU Colorfabb VarioShore, ~100 grams

# **Materials**

- CA super glue (liquid and liquid medium)
- CA activator
- Sortiment of Tapping screws Ø2mm
- Sortiment of Metal Screws Ø3mm
- Metal screw with countersunk head Ø4\*50mm, 2 pieces
- Metal screw with countersunk head Ø4\*30mm, 1 piece
- Carbon tube Ø10mm\*1000mm (inside 8mm), 2 pieces Cut the tubes to the following lengths (mm):

1 tube = 900

1 tube = 560

Carbon tube Ø6mm\*1000mm (inside 4mm), 2 pieces
 Cut the tubes to the following lengths (mm):

1 tube = 2x377

1 tube = 2x500

- Carbon rod Ø3\*1000mm, 7 pieces
   Cut 4 of the rods to the following lengths (mm): 2x100,2x260,185,326,126,197,158,142,372,2x150,2x250
- Steel wire Ø1\*1000mm, 4 pieces (do not use thinner ones!)
- Rod connection (hole for Ø1mm steel wire), 2 pieces
- Rod connection (hole for Ø2mm steel wire), 1 piece
- Ball bearings 4x9x4mm, 10 pieces
- Self-adhesive Velcro tape
- Threaded inserts M3 (optional, see description gear)
- Overhead foils or binding covers of scripts (~0,2mm, office trade) in DIN A4 format. (optional)
- Tinted film for rear car lights (optional)

# Tools

Cutter knife, small Philips screwdriver, Sandpaper grain ~150, Metal saw, Needle nose pliers





Metal screws Ø3mm















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

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

# Printing the parts – Printing profiles

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

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

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

For this model you need the following profiles:



**NOTE** When printing the PLANEPRINT LEARJET you should pay particular attention to a light weight of **each** individual part.

# PROFILE P5\_Gyroid

It is essential for the necessary stability of the LW parts printed with PROFILE\_5 are as stable as possible. Please use a test part to check the strength by fracture tests. It must not break along the layer lines under any circumstances! Also note that the printing temperature for LW-PLA is as low as possible to obtain a wall thickness of 0.4 to 0.6 mm at a flow of 55 to 65 % (depending on brand and printer).

Caution: at too high temperatures, LW-PLA becomes brittle and breaks more easily.





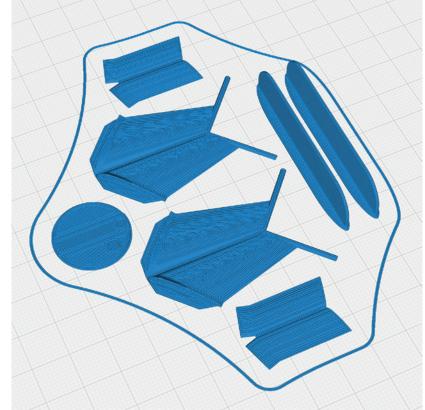
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P1\_Antennas\_lj.stl

MATERIAL PLA, Weight: ~ 6 g

### ADDITIONAL SETTINGS

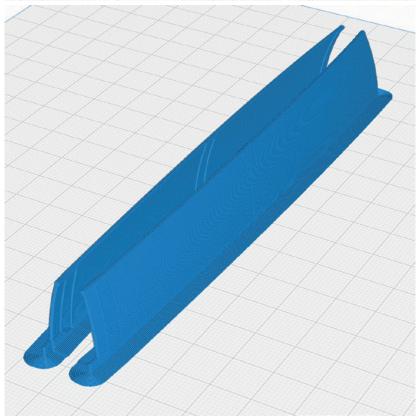
None required



# P1\_Doors front gear\_lj.stl

MATERIAL PLA, Weight: ~ 8 g

#### ADDITIONAL SETTINGS







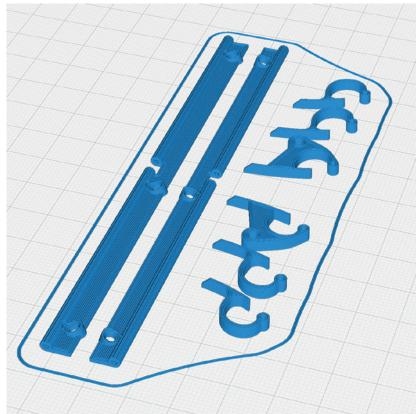
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P1\_Doors front mount\_lj.stl

MATERIAL PLA, Weight: ~ 5 g

### ADDITIONAL SETTINGS

None required



### P1\_Doors front Servo mount\_lj.stl

MATERIAL PLA, Weight: ~ 5 g

#### ADDITIONAL SETTINGS





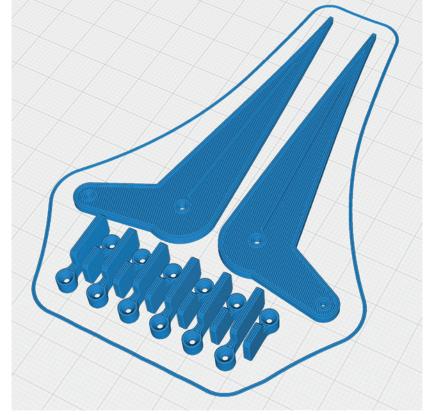
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

P1\_Hinges AIL\_lj.stl

MATERIAL PLA, Weight: ~ 7 g

ADDITIONAL SETTINGS

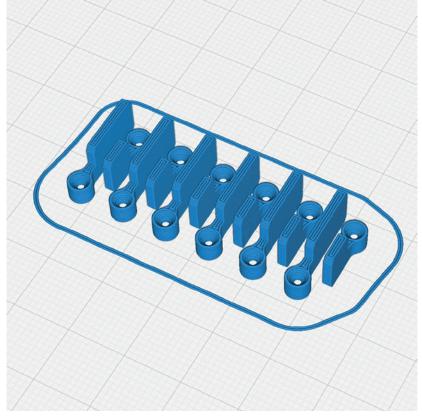
None required



P1\_Hinges ELE\_lj.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS





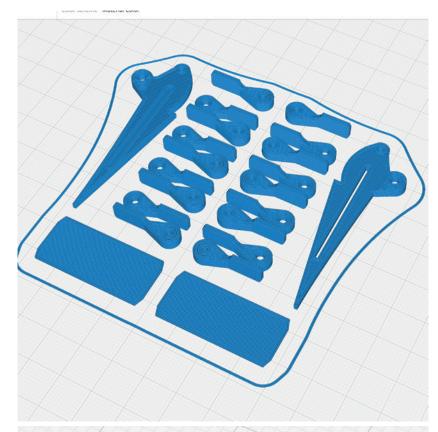
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P1\_Hinges Flap\_lj.stl

MATERIAL PLA, Weight: ~ 10 g

### ADDITIONAL SETTINGS

None required



# P1\_Landing Light glass\_lj.stl

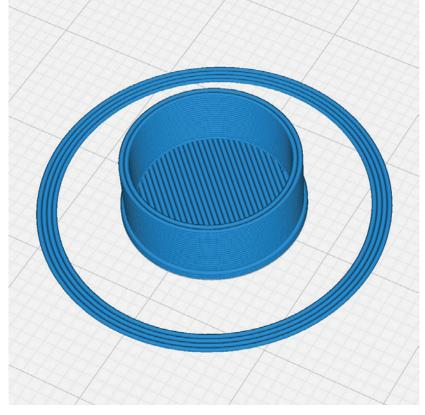
MATERIAL PLA, Weight: ~ 1 g

#### **ADDITIONAL SETTINGS**

None required

TIP Use transparent filament

For optimum printing, transparent filaments should always be dried.





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

### P1\_Landing light\_lj.stl

MATERIAL PLA, Weight: ~ 1 g

### ADDITIONAL SETTINGS

None required



# P1\_Light\_lj.stl

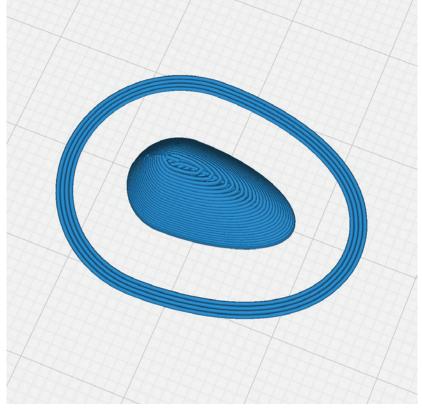
MATERIAL PLA, Weight: ~ 1 g

#### **ADDITIONAL SETTINGS**

• print it four times

TIP Use transparent filament

For optimum printing, transparent filaments should always be dried.





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

### P1\_Rear Light\_lj.stl

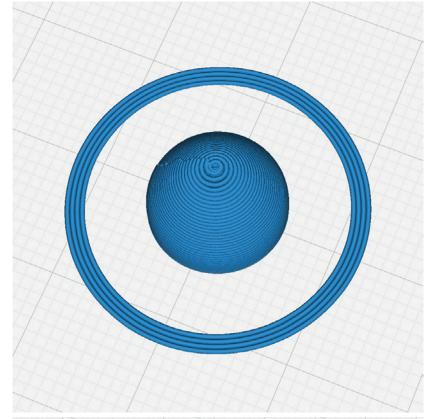
MATERIAL PLA, Weight: ~ 1 g

### ADDITIONAL SETTINGS

• Print 3 times

TIP Use transparent filament

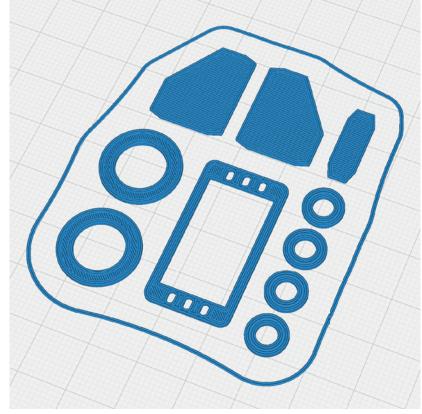
For optimum printing, transparent filaments should always be dried.



# P1\_Parts\_lj.stl

MATERIAL PLA, Weight: ~ 1 g

#### **ADDITIONAL SETTINGS**





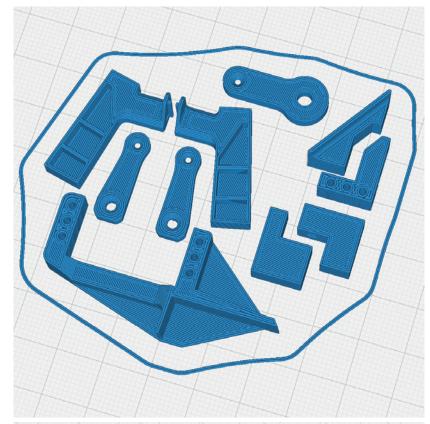
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P1\_Servo mount RUD ELE\_lj.stl

MATERIAL PLA, Weight: ~ 8 g

### ADDITIONAL SETTINGS

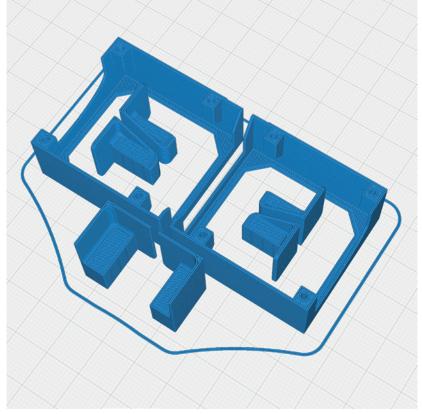
None required



### P1\_Servo mount wing\_lj.stl

MATERIAL PLA, Weight: ~ 14 g

#### ADDITIONAL SETTINGS





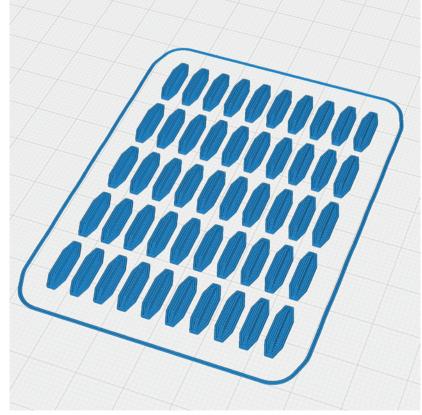
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

P1\_T-Connects small\_lj.stl

MATERIAL PLA, Weight: ~ 3 g

ADDITIONAL SETTINGS

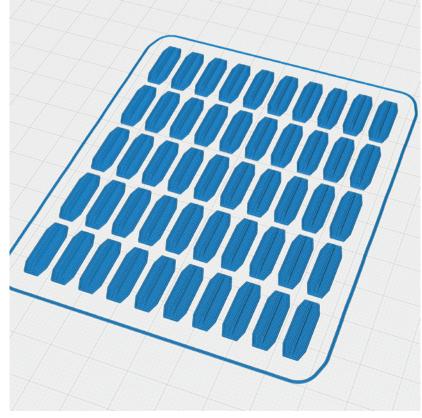
None required



P1\_T-Connects\_lj.stl

MATERIAL PLA, Weight: ~ 5 g

**ADDITIONAL SETTINGS** 





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

P1\_Windshield L\_lj.stl and P1\_Windshield R\_lj

MATERIAL PLA, Weight: ~ 1 g

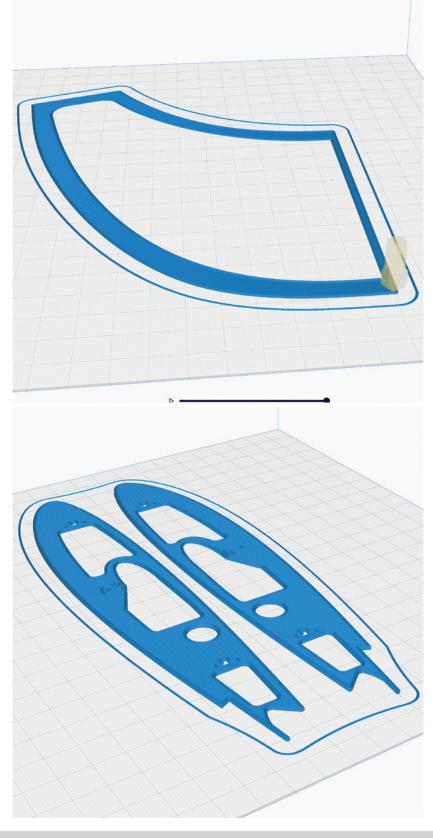
#### ADDITIONAL SETTINGS

None required

P1\_Wing Fence\_lj.stl

MATERIAL PLA, Weight: ~ 10 g

#### **ADDITIONAL SETTINGS**





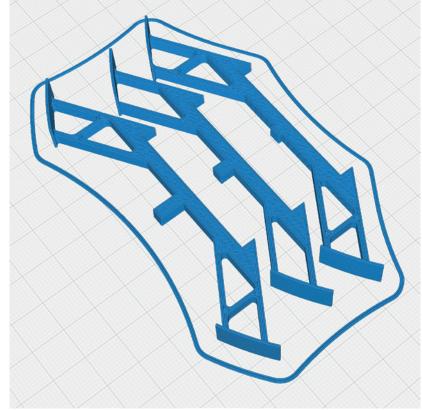
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Battery mount\_lj.stl

MATERIAL PLA, Weight: ~ 7 g

### ADDITIONAL SETTINGS

None required

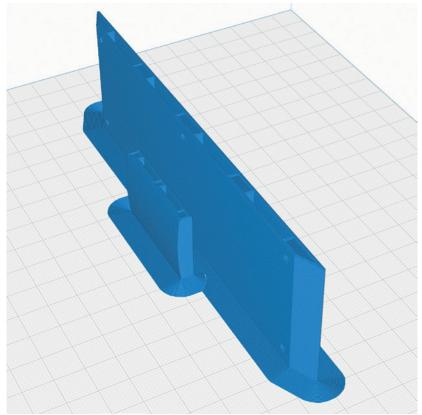


# P2\_Battery plate\_lj.stl

MATERIAL PLA, Weight: ~ 25 g

#### ADDITIONAL SETTINGS

• use brim





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

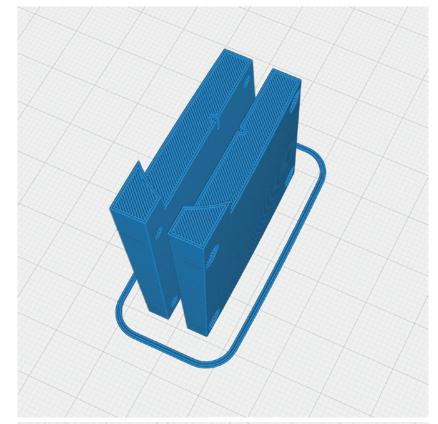
### P2\_AIL covers\_lj.stl

MATERIAL PLA, Weight: ~ 5 g

### ADDITIONAL SETTINGS

• Wall Line Count/Perimeters: 1

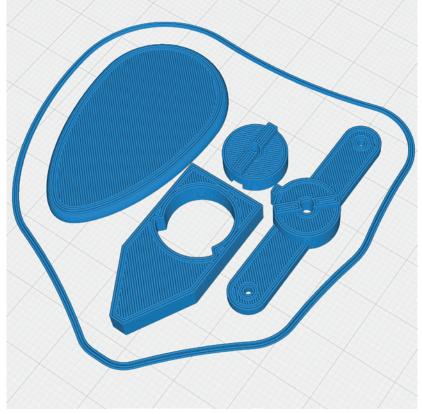
• Infill: 8 %



# P2\_Cover lock\_lj.stl

MATERIAL PLA, Weight: ~ 4 g

#### ADDITIONAL SETTINGS





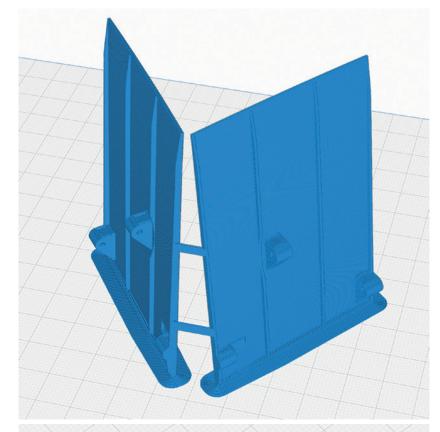
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Doors1 main gear\_lj.stl

MATERIAL PLA, Weight: ~ 11 g

### ADDITIONAL SETTINGS

• use brim



P2\_Gear leg nose\_lj.stl\* or P2\_Gear leg nose M3\_lj.stl\*\*

MATERIAL Tough PLA, Weight: ~ 7 g

#### ADDITIONAL SETTINGS

- Wall Line Count/Perimeters: 4
- Top Layers: 4
- Bottom Layers: 4
- \* With holes for threaded inserts (better solution)
- \*\* With holes for Screws Ø3mm





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

P2\_Gear legs main\_lj.stl\* or P2\_Gear legs main M3\_lj.stl\*\*

MATERIAL Tough PLA, Weight: ~ 21 g

#### ADDITIONAL SETTINGS

- Wall Line Count/Perimeters: 4
- Top Layers: 4
- Bottom Layers: 4

\* With holes for threaded inserts (better solution)

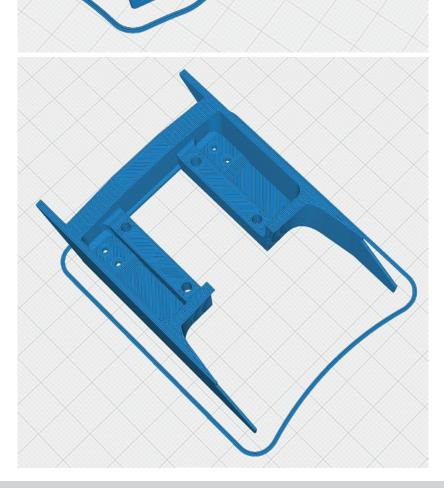




MATERIAL Tough PLA, Weight: ~ 13 g

#### ADDITIONAL SETTINGS

• print twice





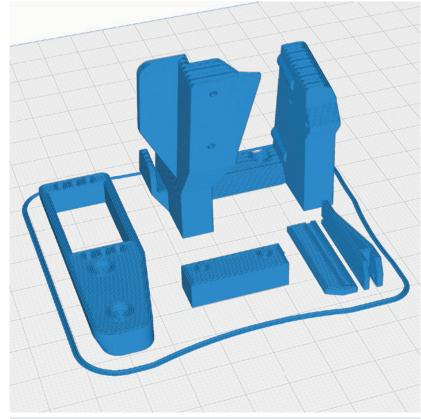
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Gear mount nose\_lj.stl

MATERIAL Tough PLA, Weight: ~ 15 g

### ADDITIONAL SETTINGS

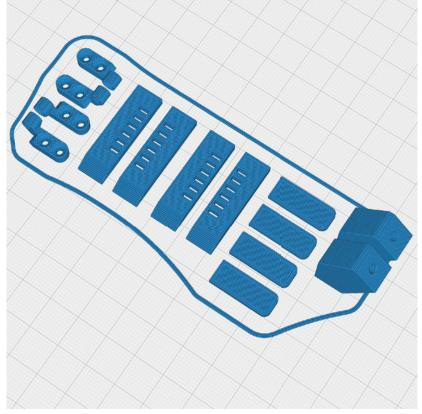
None required



### P2\_Parts\_lj.stl

MATERIAL PLA, Weight: ~ 8 g

#### ADDITIONAL SETTINGS





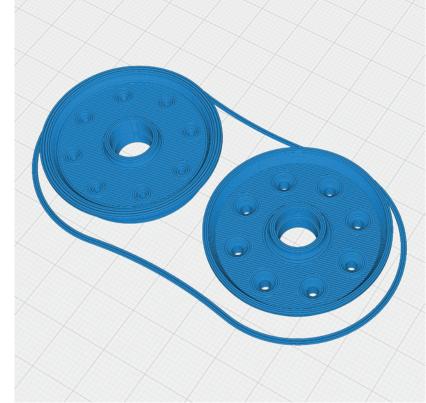
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Rim main\_lj.stl

MATERIAL PLA, Weight: ~ 7 g

### ADDITIONAL SETTINGS

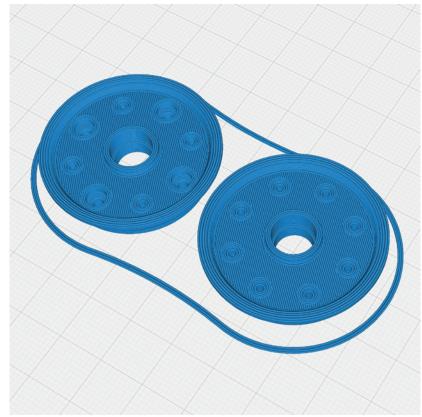
• Print it four times



# P2\_Rim nose\_lj.stl

MATERIAL PLA, Weight: ~ 7 g

#### ADDITIONAL SETTINGS





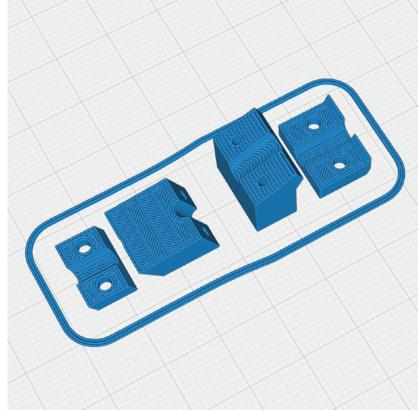
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Rudder mount\_lj.stl

MATERIAL PLA, Weight: ~ 2 g

### ADDITIONAL SETTINGS

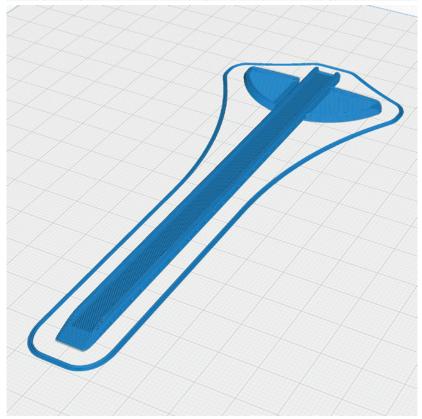
None required



# P2\_Window strut\_lj.stl

MATERIAL PLA, Weight: ~ 3 g

#### ADDITIONAL SETTINGS





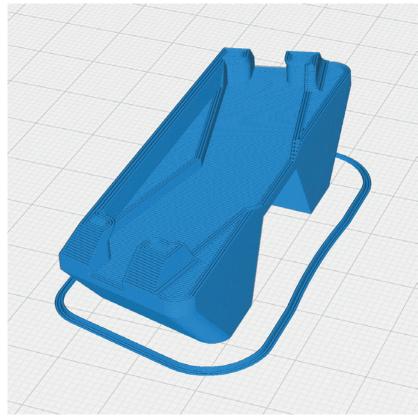
The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P2\_Wing mount\_lj.stl

MATERIAL PLA, Weight: ~ 5 g

### ADDITIONAL SETTINGS

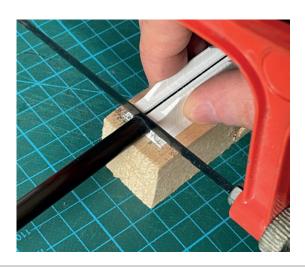
None required



# P2\_Carbon tool 10mm.stl and P2 Carbon tool 6mm.stl

MATERIAL PLA

#### ADDITIONAL SETTINGS





# PROFILE P4\_Flex LW TPU (A95/VarioShore)



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

#### P4\_Wheel main\_lj.stl

MATERIAL VarioShore or TPU A95

#### ADDITIONAL SETTINGS

#### VarioShore with Flow 70 %:

Wall Line Count: 5
Top Layers: 5
Bottom Layers: 5
Infill Density: 10.9/

Infill Density: 10 %Infill Pattern: Gyroid

#### **TPU A95:**

• Wall Line Count: 3

• Top Layers: 3

Infill Density: 6 %Infill Pattern: Gyroid

• Print it four times

#### P4\_Wheel nose\_lj.stl

MATERIAL VarioShore or TPU A95

#### ADDITIONAL SETTINGS

#### VarioShore with Flow 70 %:

• Wall Line Count: 5

• Top Layers: 5

Bottom Layers: 5Infill Density: 10 %

Infill Density: 10 %Infill Pattern: Gyroid

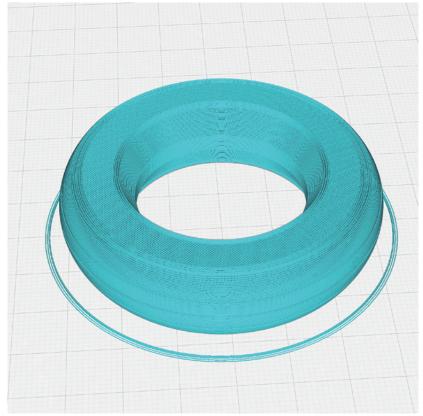
#### **TPU A95:**

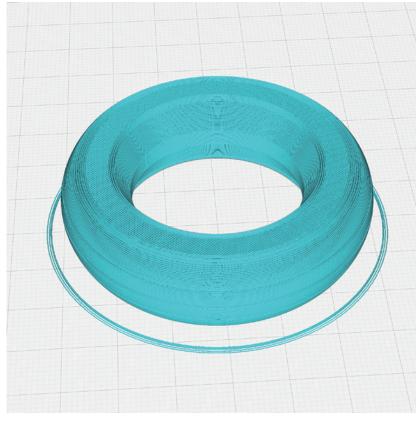
• Wall Line Count: 3

• Top Layers: 3

• Infill Density: 6 %

• Infill Pattern: Gyroid







# PROFILE P4\_Flex LW TPU (A95/VarioShore)

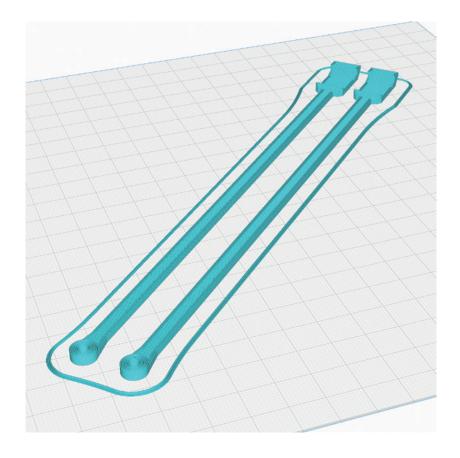


The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts!

### P4\_Tension belt\_lj.stl

MATERIAL TPU, Weight: ~ 4 g

### ADDITIONAL SETTINGS





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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

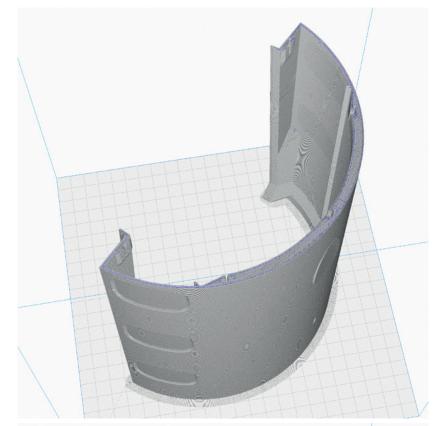
P5\_Cover 1\_lj.stl

MATERIAL LW PLA, Weight: ~ 45 g

TIME ~ 9 hours

#### ADDITIONAL SETTINGS

None required

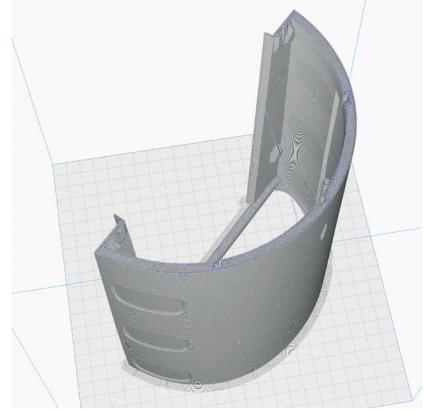


P5\_Cover 2\_lj.stl

MATERIAL LW PLA, Weight: ~ 49 g

TIME ~ 10 hours

#### ADDITIONAL SETTINGS





The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts! It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

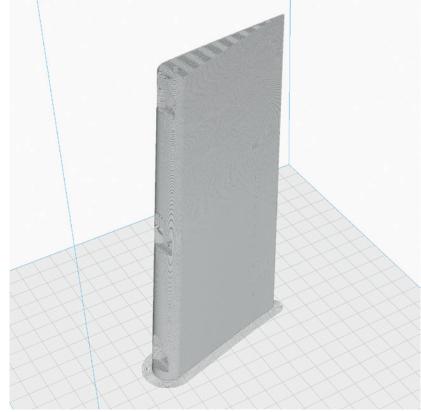
P5\_AIL L\_lj.stl and P5\_AIL R\_lj.stl

MATERIAL LW PLA, Weight: ~ 14 g

TIME ~ 2 hours 10 minutes

#### ADDITIONAL SETTINGS

• use brim



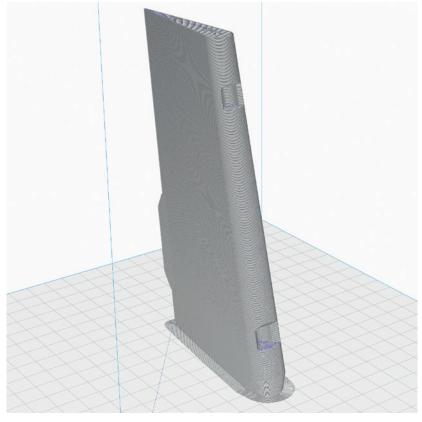
P5\_Elevator L1\_lj.stl and P5\_Elevator R1\_lj.stl

MATERIAL LW PLA, Weight: ~ 12 g

TIME ~ 2 hours

#### ADDITIONAL SETTINGS

• use brim





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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

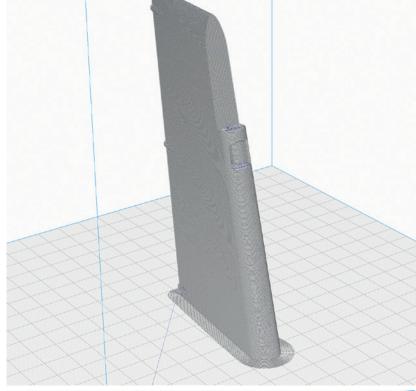
P5\_Elevator L2\_lj.stl and P5\_Elevator R2\_lj.stl

MATERIAL LW PLA, Weight: ~ 7 g

TIME ~ 1 hour

#### ADDITIONAL SETTINGS

None required



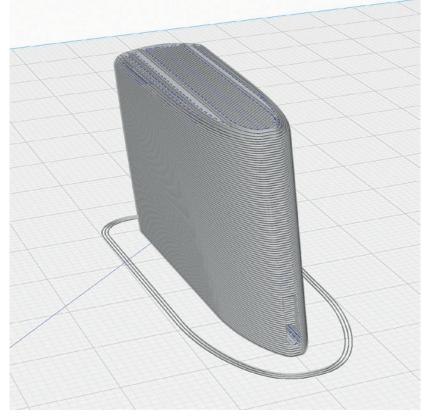
# P5\_Elevator L+R3\_lj.stl

MATERIAL LW PLA, Weight: ~ 1 g

TIME ~ 15 minutes

#### ADDITIONAL SETTINGS

Print twice





The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts! It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

P5\_Flap L1\_lj.stl and P5\_Flap R1\_lj.stl

MATERIAL LW PLA, Weight: ~ 5 g

TIME ~ 50 minutes

#### **ADDITIONAL SETTINGS**

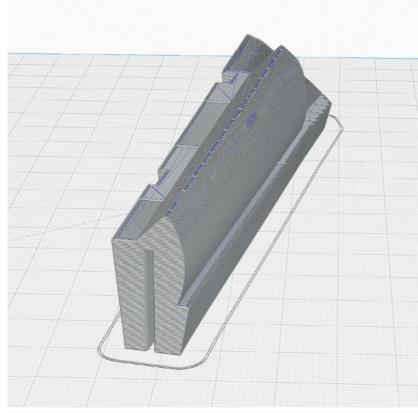
None required

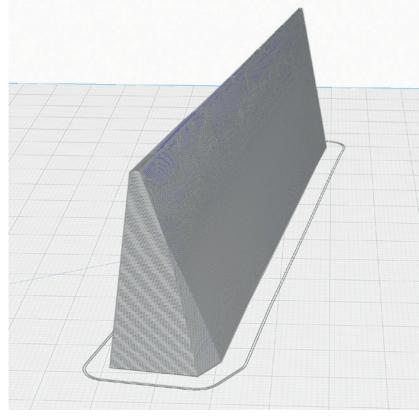
P5\_Flap L2\_lj.stl and P5\_Flap R2\_lj.stl

MATERIAL LW PLA, Weight: ~ 5 g

TIME ~ 40 minutes

#### ADDITIONAL SETTINGS







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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

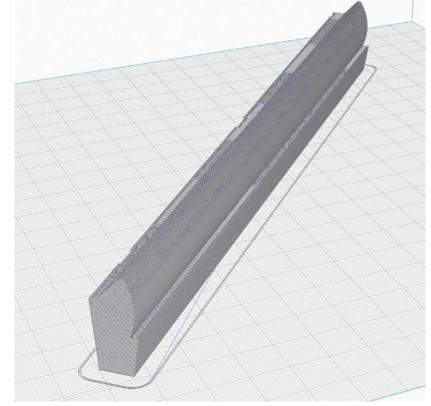
P5\_Flap L3\_lj.stl and P5\_Flap R3\_lj.stl

MATERIAL LW PLA, Weight: ~ 7 g

TIME ~ 1 hour

ADDITIONAL SETTINGS

None required

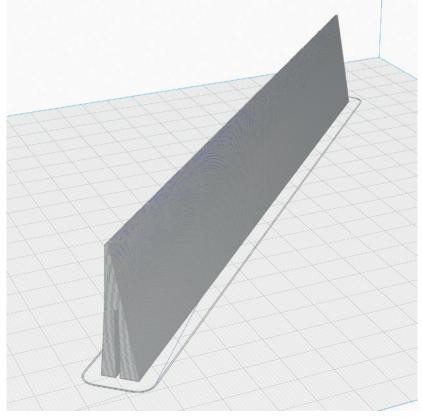


P5\_Flap L4\_lj.stl and P5\_Flap R4\_lj.stl

MATERIAL LW PLA, Weight: ~ 6 g

TIME ~ 1 hour

ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

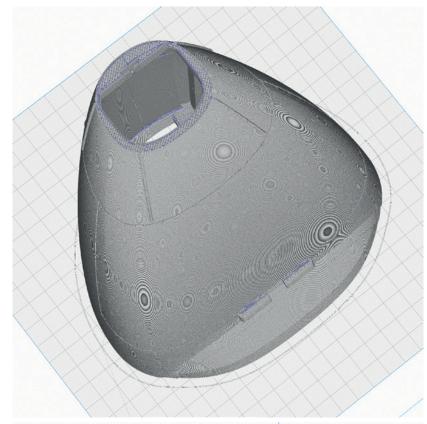
#### P5\_FUS 1\_lj.stl

MATERIAL LW PLA, Weight: ~ 41 g

TIME ~ 8 hours

#### ADDITIONAL SETTINGS

None required

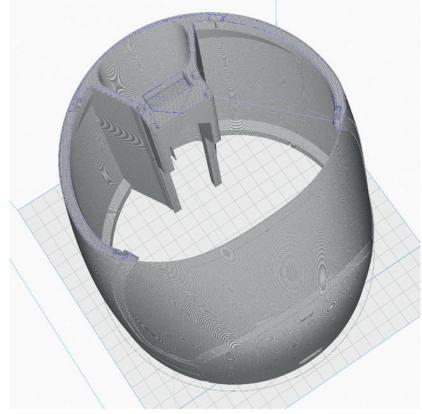


# P5\_FUS 2\_lj.stl

MATERIAL LW PLA, Weight: ~ 80 g

TIME ~ 17 hours

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

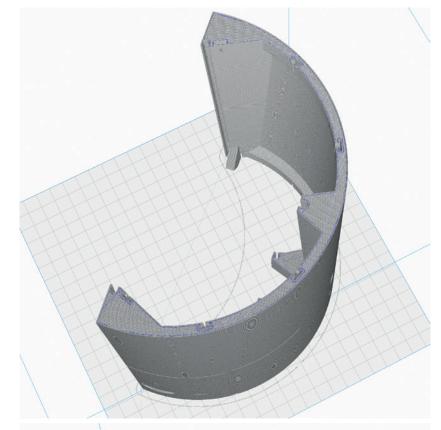
#### P5\_FUS 3\_lj.stl

MATERIAL LW PLA, Weight: ~ 50 g

TIME ~ 10 hours

#### ADDITIONAL SETTINGS

None required

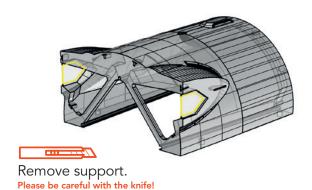


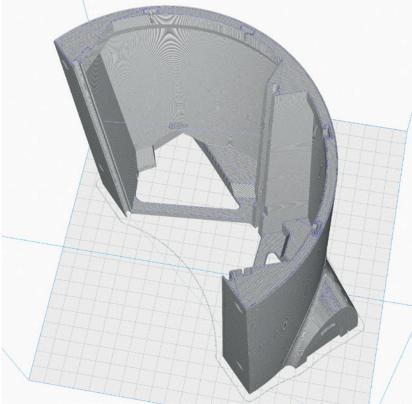
### P5\_FUS 4\_lj.stl

MATERIAL LW PLA, Weight: ~ 66 g

TIME ~ 13 hours

#### ADDITIONAL SETTINGS







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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

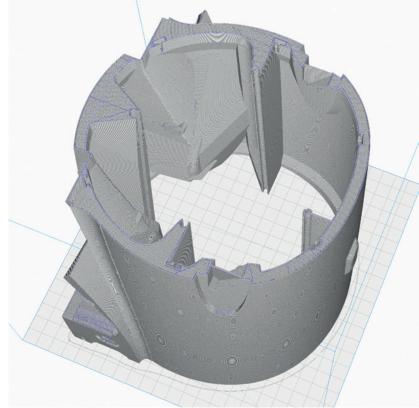
P5\_FUS 5a\_lj.stl

MATERIAL LW PLA, Weight: ~ 115 g

TIME ~ 19 hours

#### ADDITIONAL SETTINGS

None required

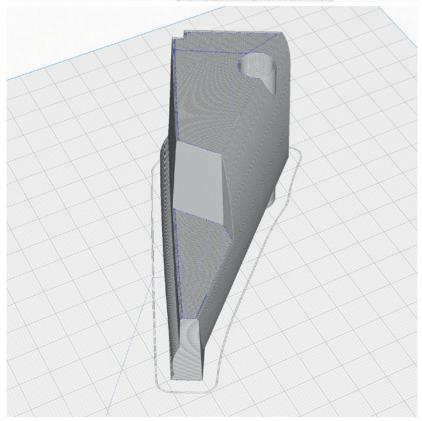


P5\_FUS 5b L\_lj.stl and P5\_FUS 5b R\_lj.stl

MATERIAL LW PLA, Weight: ~ 10 g

TIME ~ 1 hour 10 minutes

#### ADDITIONAL SETTINGS





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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

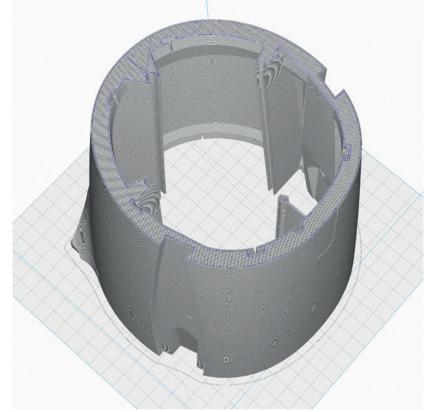
#### P5\_FUS 6a\_lj.stl

MATERIAL LW PLA, Weight: ~ 78 g

TIME ~ 18 hours

#### ADDITIONAL SETTINGS

None required

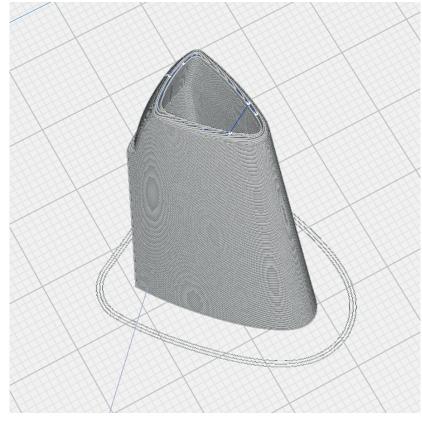


### P5\_FUS 6b\_lj.stl

MATERIAL LW PLA, Weight: ~ 2 g

TIME ~ 15 minutes

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

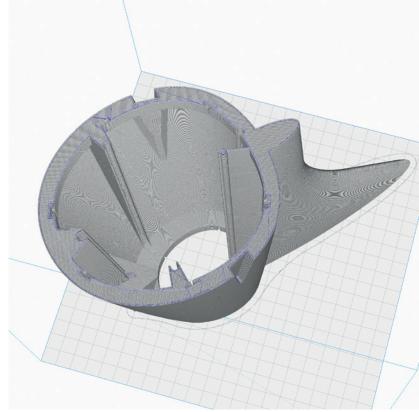
#### P5\_FUS 7\_lj.stl

MATERIAL LW PLA, Weight: ~ 63 g

TIME ~ 13 hours

#### ADDITIONAL SETTINGS

set Z-Seam back left



### P5\_FUS 8a\_lj.stl

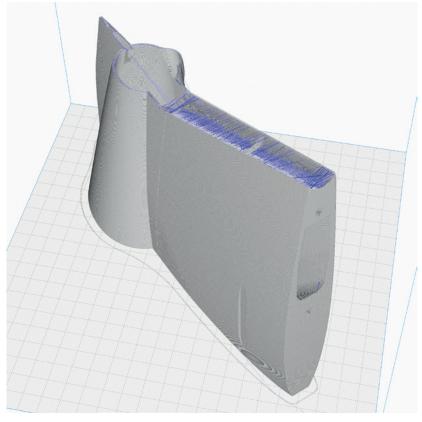
MATERIAL LW PLA, Weight: ~ 47 g

TIME ~ 9 hours

#### **ADDITIONAL SETTINGS**

None required

Unfortunately, stringing is unavoidable with this part and it has to be reworked a little with a knife and sandpaper.





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

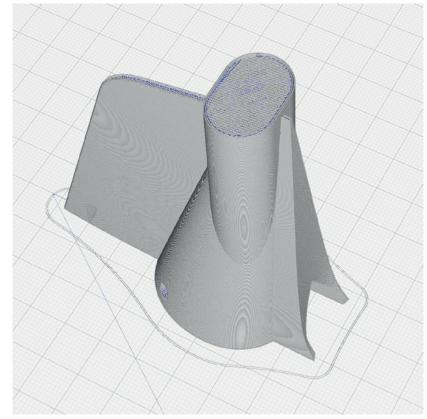
#### P5\_FUS 8b\_lj.stl

MATERIAL LW PLA, Weight: ~ 6 g

TIME ~ 1 hour

#### ADDITIONAL SETTINGS

None required



# P5\_FUS 8c\_lj.stl

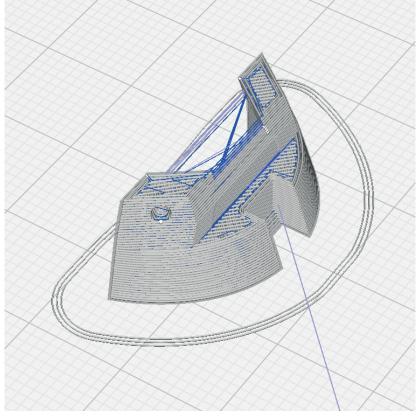
MATERIAL LW PLA, Weight: ~ 1 g

TIME ~ 4 minutes

#### ADDITIONAL SETTINGS

None required

Unfortunately, stringing is unavoidable with this part and it has to be reworked a little with a knife and sandpaper.





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

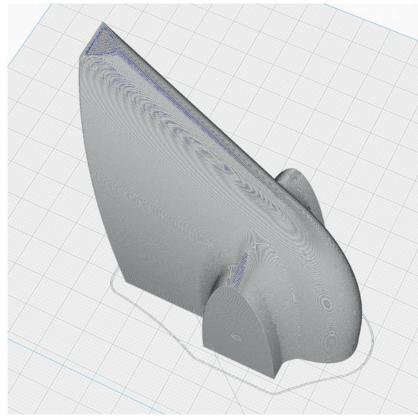
#### P5\_FUS 9a\_lj.stl

MATERIAL LW PLA, Weight: ~ 10 g

TIME ~ 2 hours

#### ADDITIONAL SETTINGS

None required

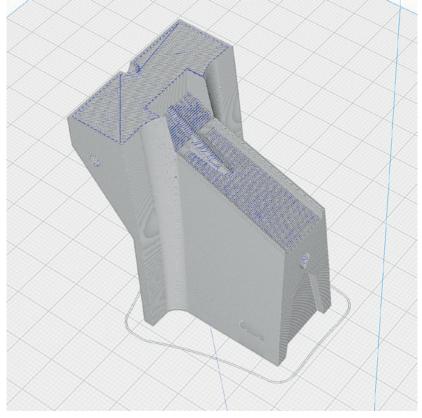


### P5\_FUS 9b\_lj.stl

MATERIAL LW PLA, Weight: ~ 6 g

TIME ~ 1 hour

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

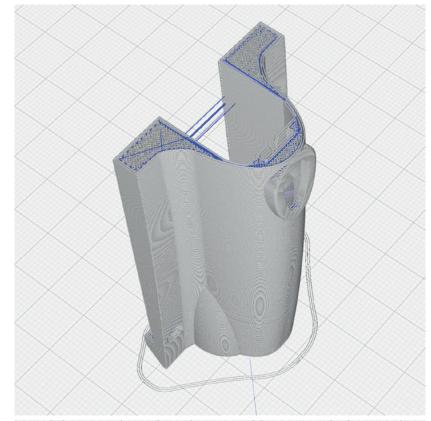
### P5\_FUS 9c\_lj.stl

MATERIAL LW PLA, Weight: ~ 3 g

TIME ~ 40 minutes

#### ADDITIONAL SETTINGS

None required

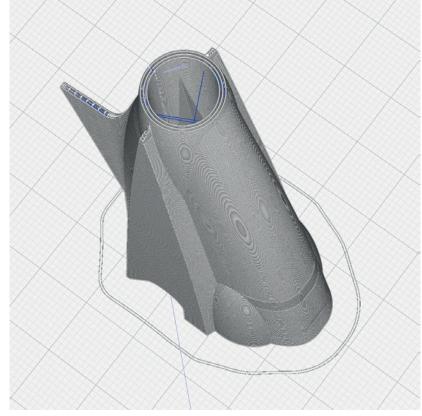


### P5\_FUS 9d\_lj.stl

MATERIAL LW PLA, Weight: ~ 4 g

TIME ~ 48 minutes

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

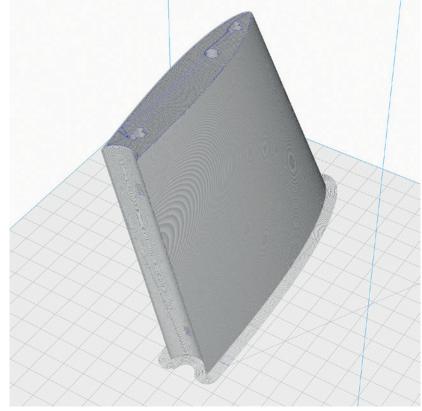
P5\_HS L1\_lj.stl and P5\_HS R1\_lj.stl

MATERIAL LW PLA, Weight: ~ 24 g

TIME ~ 4 hours

#### ADDITIONAL SETTINGS

None required

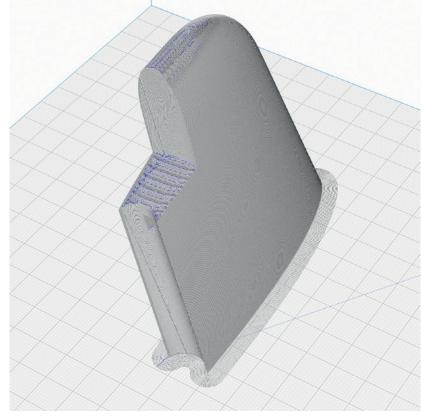


P5\_HS L2\_lj.stl and P5\_HS R2\_lj.stl

MATERIAL LW PLA, Weight: ~ 11 g

TIME ~ 1 hour 30 minutes

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

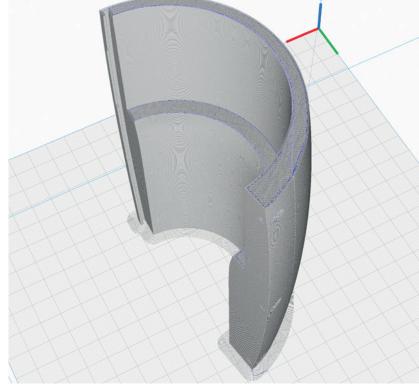
P5\_Nacelle Cover L\_lj.stl and P5\_Nacelle Cover R\_lj.stl

MATERIAL LW PLA, Weight: ~ 23 g

TIME ~ 4 hours

**ADDITIONAL SETTINGS** 

None required

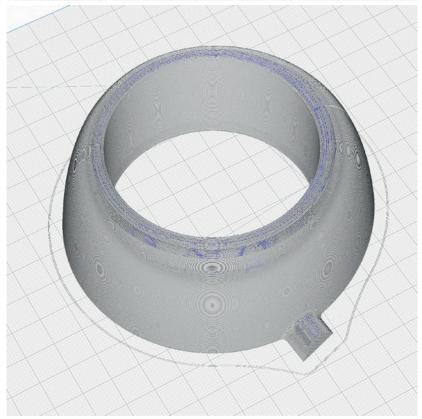


P5\_Nacelle L1\_lj.stl and P5\_Nacelle R1\_lj.stl

MATERIAL LW PLA, Weight: ~ 14 g

TIME ~ 2 hours

ADDITIONAL SETTINGS







The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts! It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

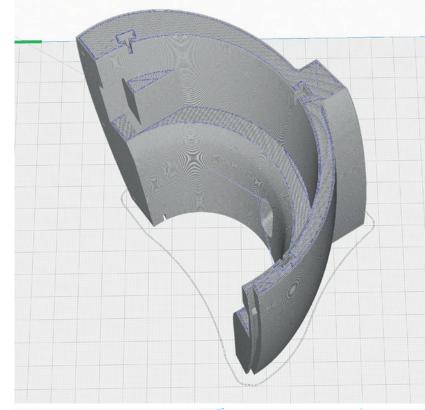
P5\_Nacelle L2\_lj.stl and P5\_Nacelle R2\_lj.stl

MATERIAL LW PLA, Weight: ~ 30 g

TIME ~ 5 hours

#### **ADDITIONAL SETTINGS**

None required

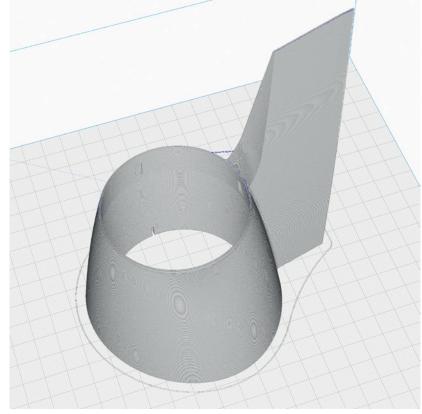


P5\_Nacelle L3\_lj.stl and P5\_Nacelle R3\_lj.stl

MATERIAL LW PLA, Weight: ~ 20 g

TIME ~ 3 hours

#### ADDITIONAL SETTINGS





The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts! It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL

on our website for correct adjustment! Print only one STL at a time!

#### P5\_Rudder1\_lj.stl

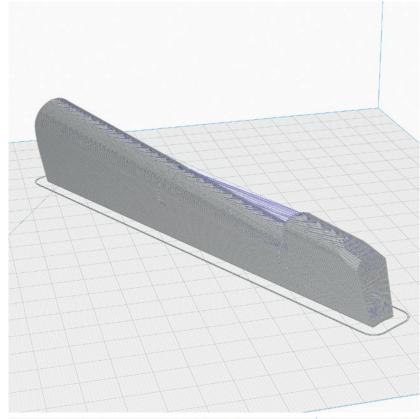
MATERIAL LW PLA, Weight: ~ 7 g

TIME ~ 1 hour 10 minutes

#### ADDITIONAL SETTINGS

None required

Unfortunately, stringing is unavoidable with this part and it has to be reworked a little with a knife and sandpaper.

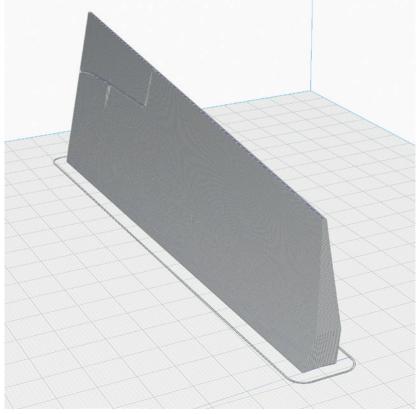


### P5\_Rudder2\_lj.stl

MATERIAL LW PLA, Weight: ~ 6 g

TIME ~ 1 hour

#### ADDITIONAL SETTINGS





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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

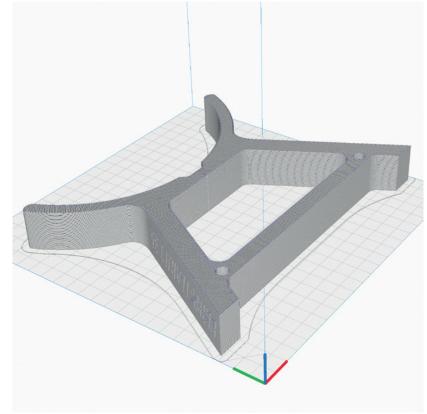
P5\_Stand1\_lj.stl

MATERIAL LW PLA, Weight: ~ 22 g

TIME ~ 3 hours 20 minutes

#### ADDITIONAL SETTINGS

None required

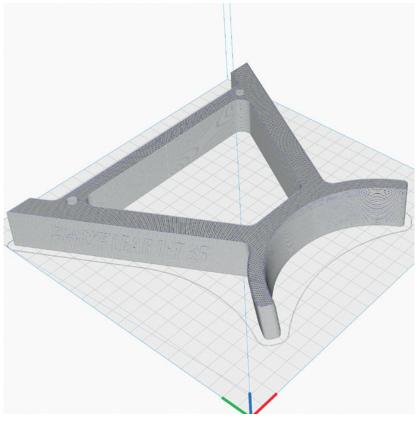


### P5\_Stand2\_lj.stl

MATERIAL LW PLA, Weight: ~ 22 g

TIME ~ 3 hours 20 minutes

#### ADDITIONAL SETTINGS





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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

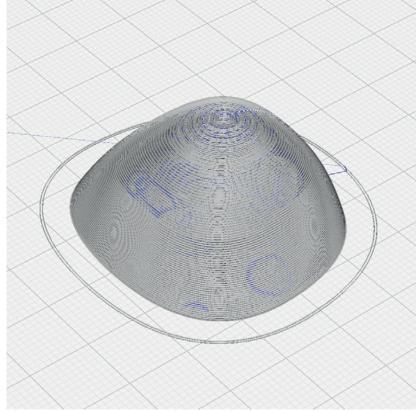
#### P5\_Nose\_lj.stl

MATERIAL LW PLA, Weight: ~ 3 g

TIME ~ 15 minutes

#### **ADDITIONAL SETTINGS**

• Wall Line Count/Perimeters: 2

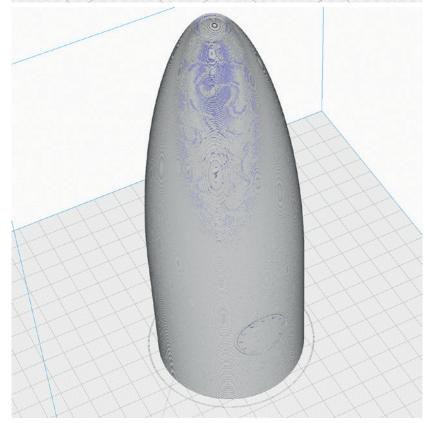


P5\_Tank L1\_lj.stl and P5\_Tank R1\_lj.stl

MATERIAL LW PLA, Weight: ~ 20 g

TIME ~ 4 hours

#### ADDITIONAL SETTINGS







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

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

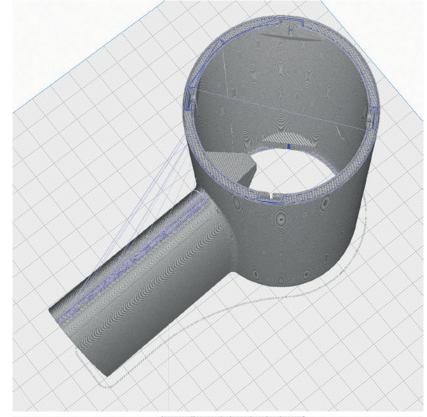
P5\_Tank L2\_lj.stl and P5\_Tank R2\_lj.stl

MATERIAL LW PLA, Weight: ~ 35 g

TIME ~ 7 hours

#### ADDITIONAL SETTINGS

None required

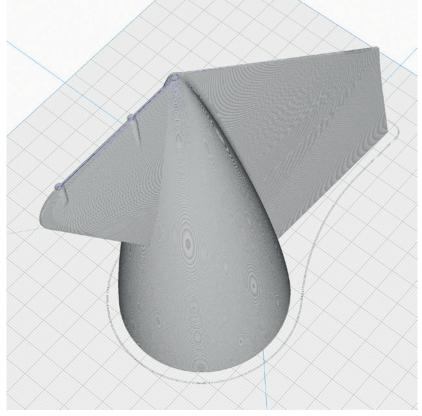


P5\_Tank L3\_lj.stl and P5\_Tank R3\_lj.stl

MATERIAL LW PLA, Weight: ~ 18 g

TIME ~ 3 hours 20 minutes

#### ADDITIONAL SETTINGS





The information about the basic settings you can find on our website at PRINT. Please note the additional settings for the individual parts! It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

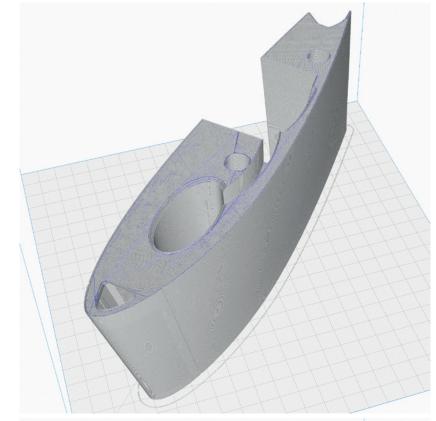
P5\_Wing L1\_lj.stl and P5\_Wing R1\_lj

MATERIAL LW PLA, Weight: ~ 45 g

TIME ~ 7 hours 30 minutes

#### ADDITIONAL SETTINGS

None required

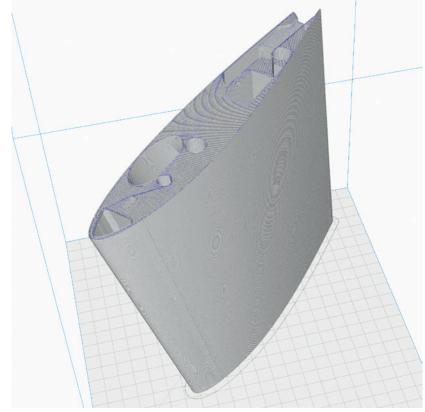


P5\_Wing L2\_lj.stl and P5\_Wing R2\_lj

MATERIAL LW PLA, Weight: ~ 75 g

TIME ~ 12 hours

#### ADDITIONAL SETTINGS





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

Please note the additional settings for the individual parts!

It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

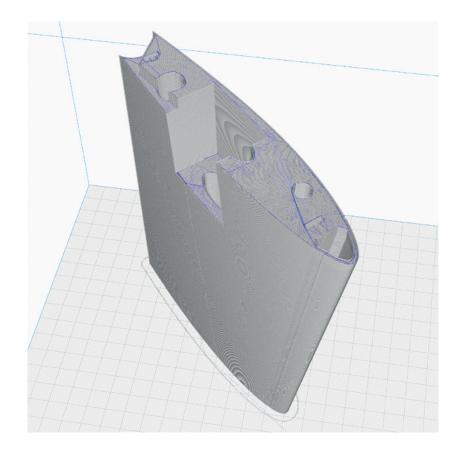
Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment! Print only one STL at a time!

P5\_Wing L3\_lj.stl and P5\_Wing R3\_lj

MATERIAL LW PLA, Weight: ~ 40 g

TIME ~ 7 hours

#### ADDITIONAL SETTINGS



### **Basic Information:**



### Gluing the parts printed with PROFILE P5

STEP 1 As a first step, it is important to roughen and smooth the adhesive surfaces with sandpaper.

STEP 2 Insert the interconnects into the slots provided on one side.

Apply a lot of glue to the side with the interconnects. It is important that there is glue everywhere, especially on the outside and inside of the wall surfaces, in order to achieve a perfect connection. The interconnects only serve to align the parts to each other. It is better **not** to apply glue here, otherwise it can happen that the glue suddenly hardens while the parts are being put together and stops the process.

Use medium viscosity CA glue, thinner glue would run down the parts too easily.

After assembly, **align the two parts exactly** and wipe off the excess CA glue from the surface with a cloth. Now spray with activator spray along the gluing surface and carefully press the parts together.

STEP 4 Clean the glued areas slightly with a sharp-bladed cutter.

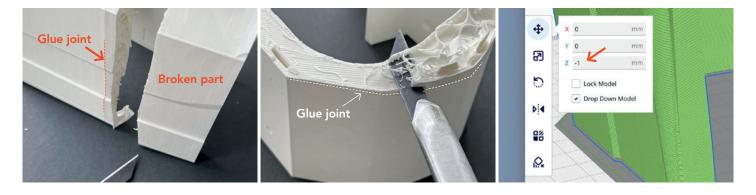


### PROFILES 5 parts are easy to repair

STEP 1 Using the knife, carefully remove the damaged part about 3 mm from the glue joint between two parts.

STEP 2 Cut wall and infill and clean the surface with sandpaper. The top surface of the damaged part remains!

The remaining top surface is about 1 mm thick. To compensate for this, you can move the new part to be printed down the Z axis in Cura by 1 mm.

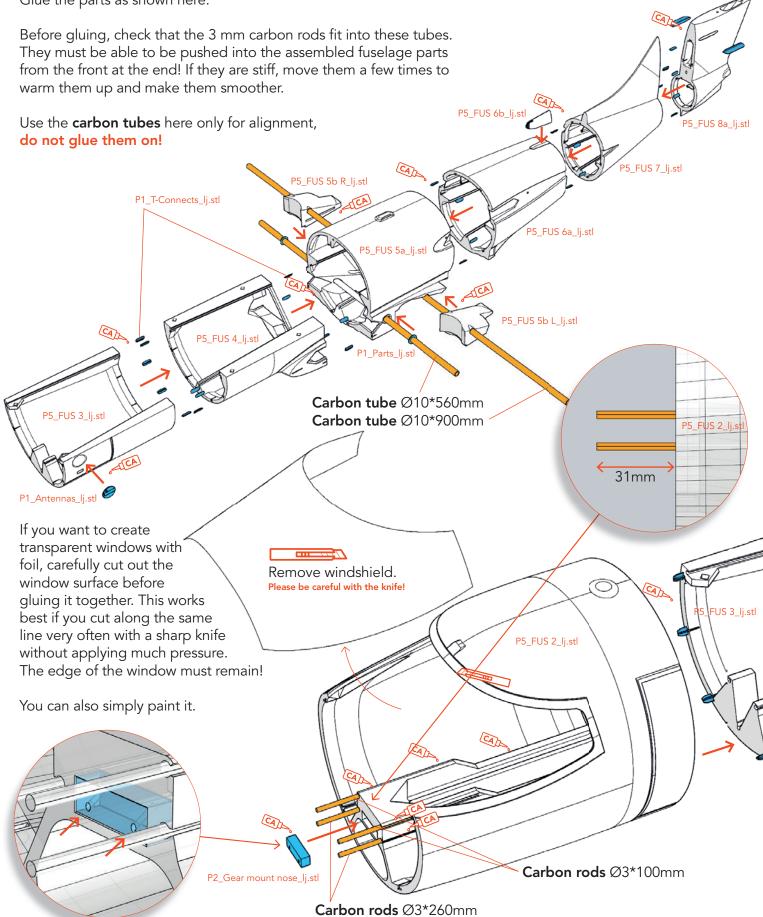


# Fuselage assembly Redium liquid

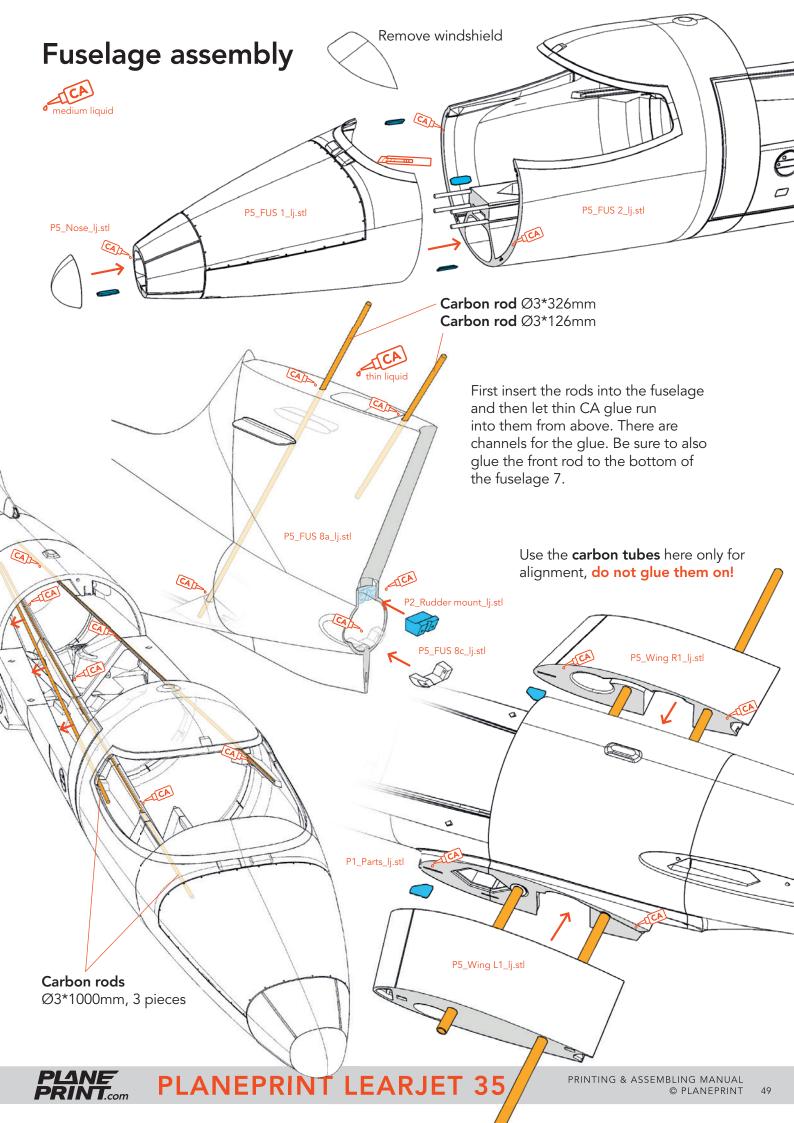


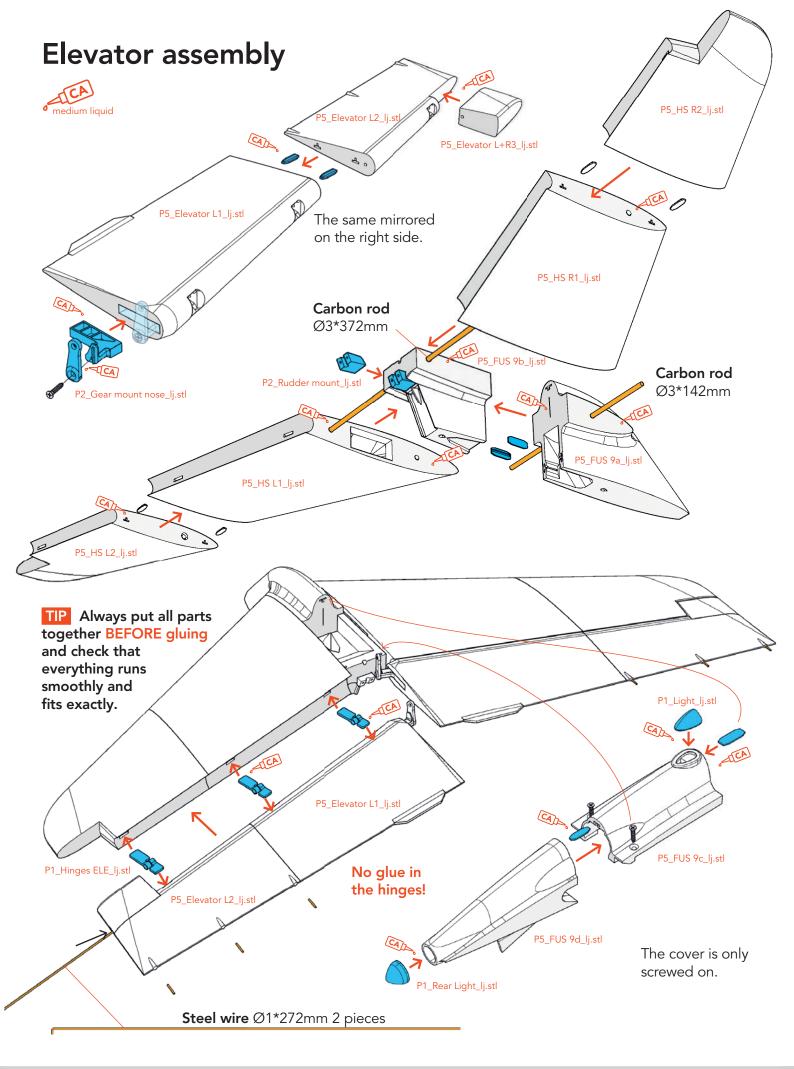
TIP Always put all parts together BEFORE gluing and check that everything runs smoothly and fits exactly.

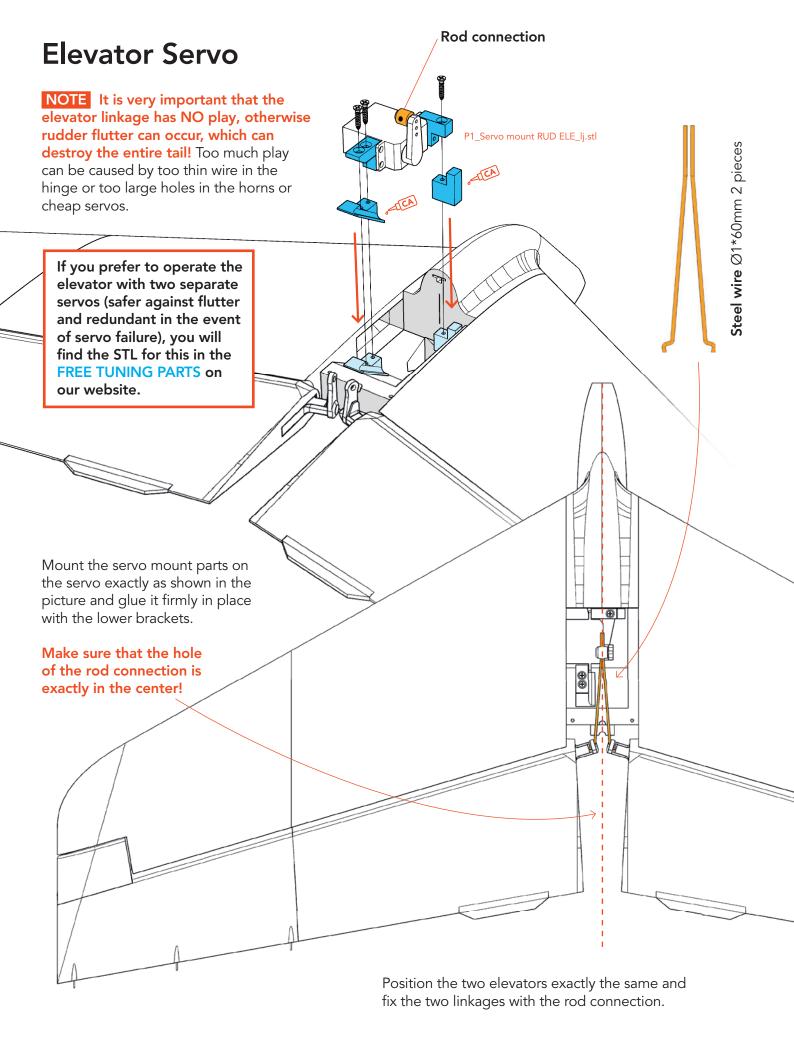
Glue the parts as shown here:

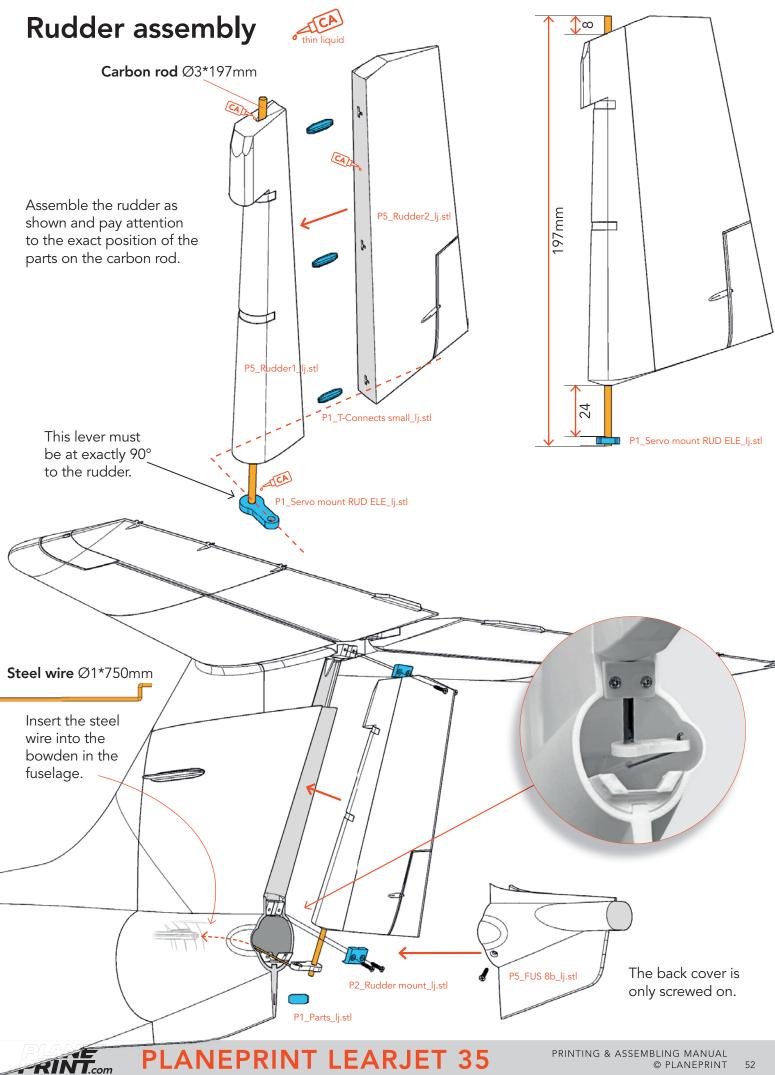


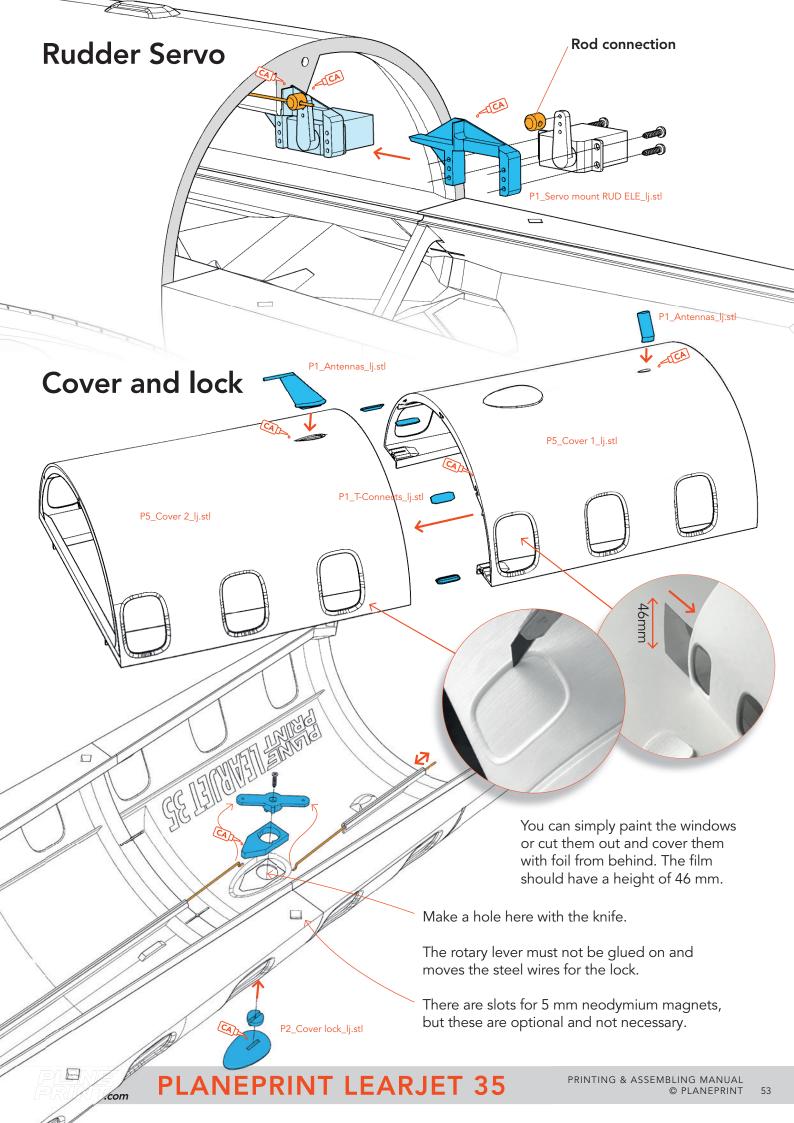




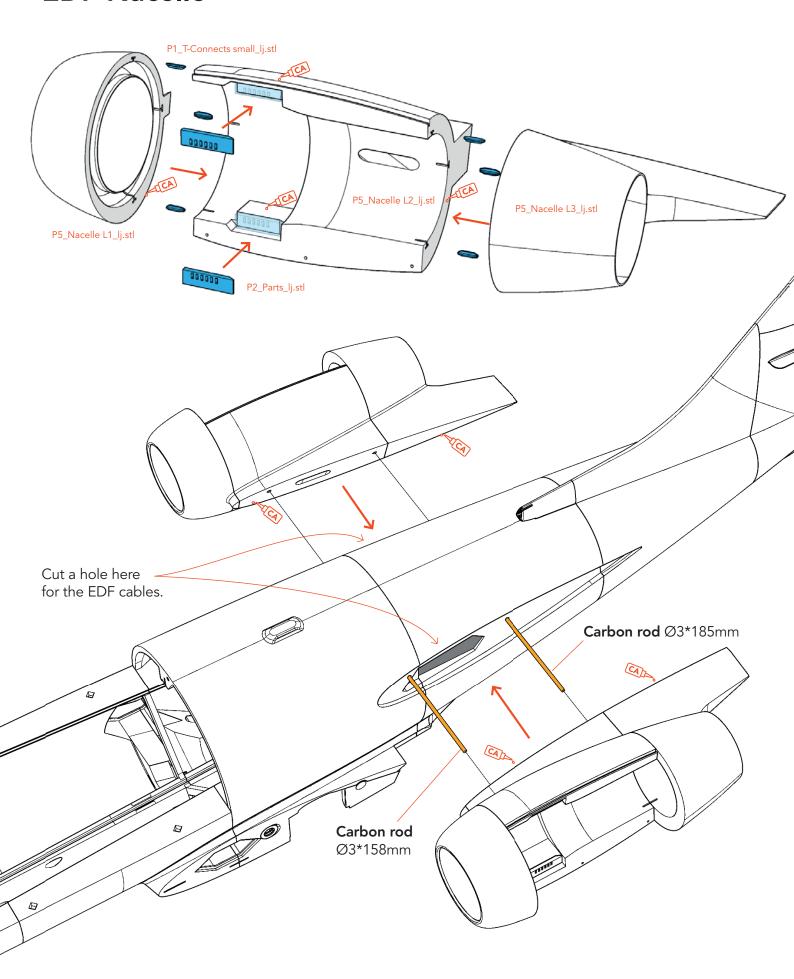


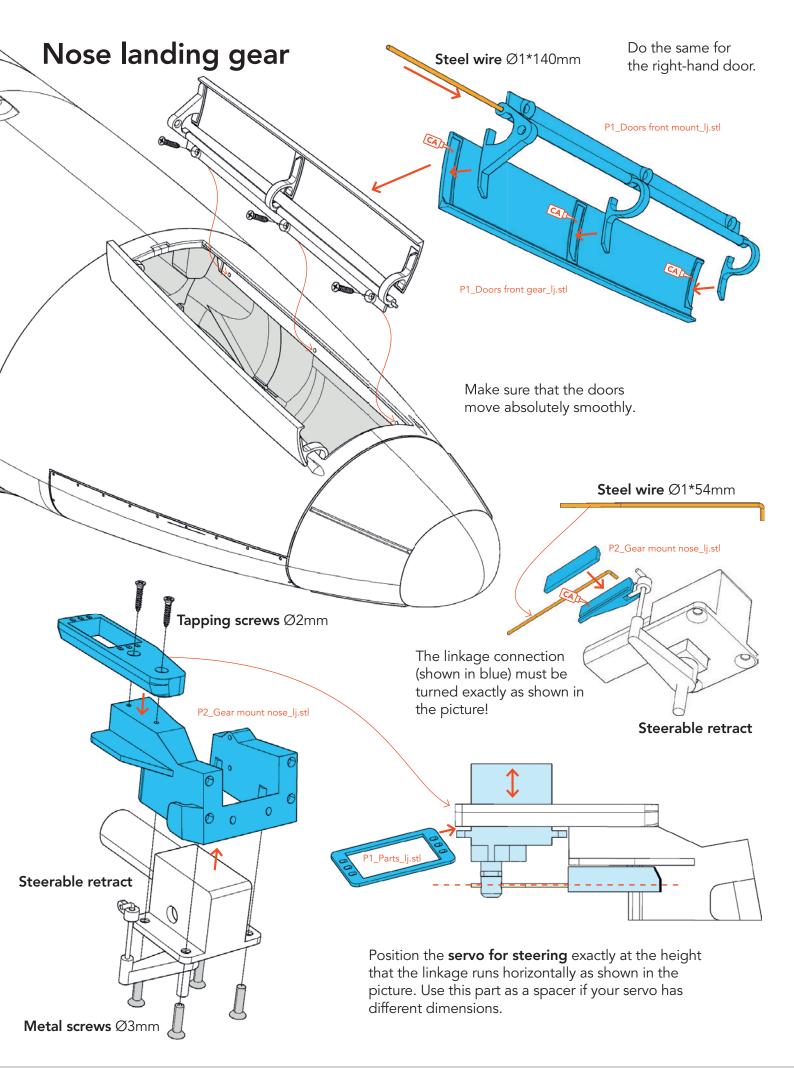


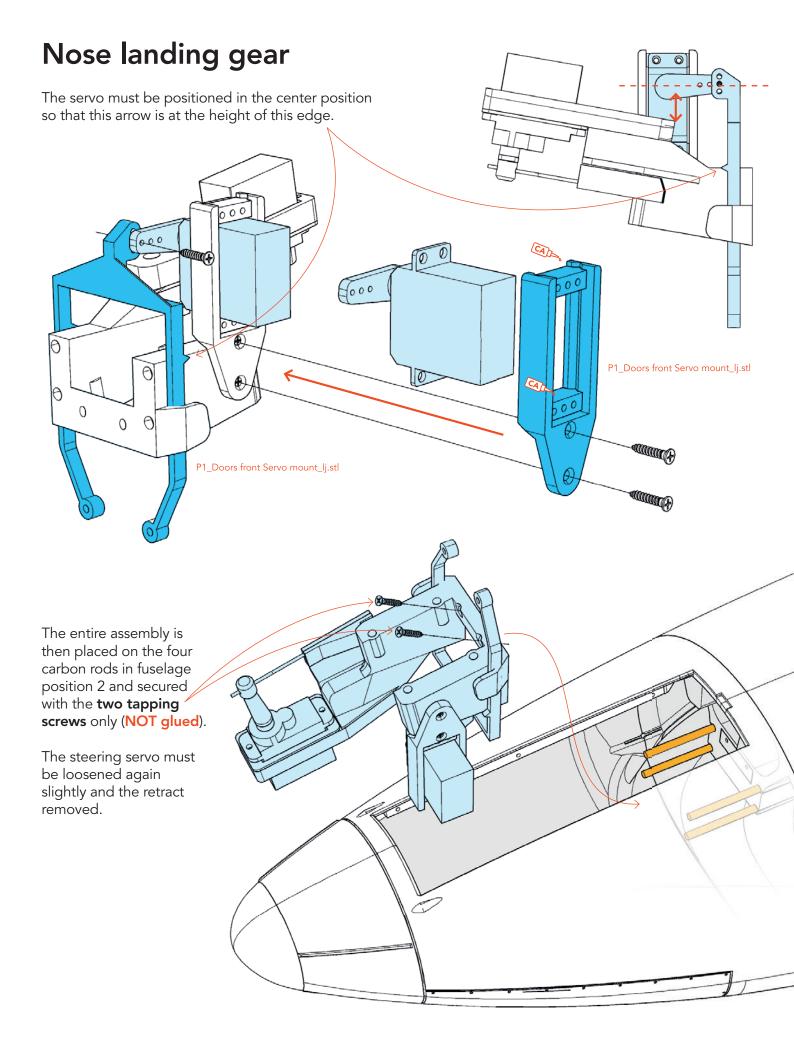


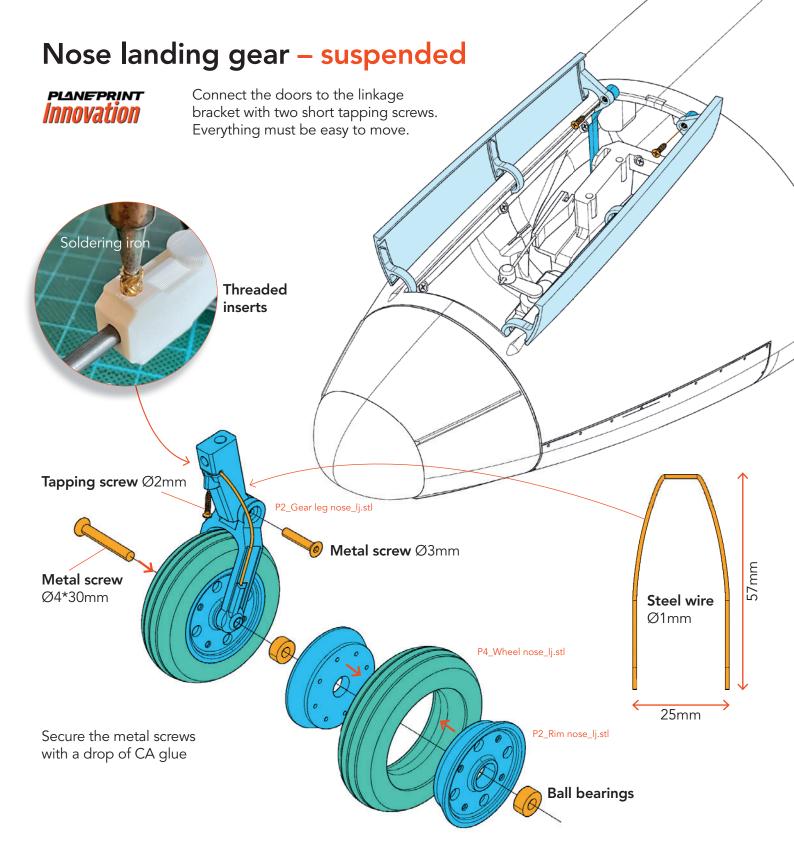


## **EDF Nacelle**







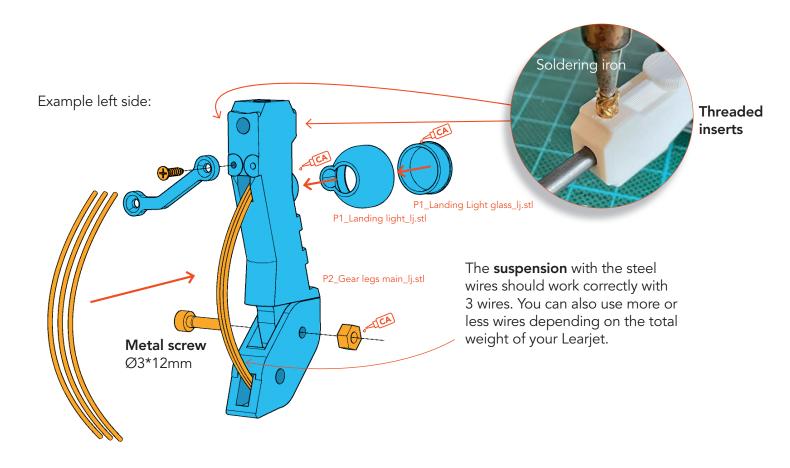


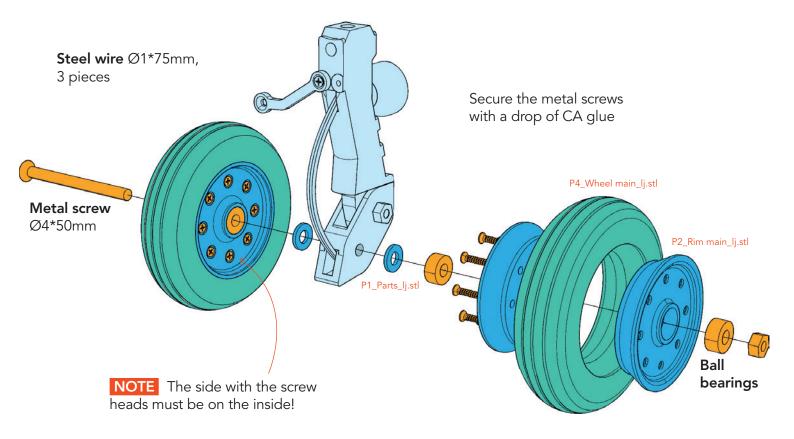
The doors must be programmed so that they open before the retract and only close when the retract is retracted. To do this, you must program a sequence on your remote control.

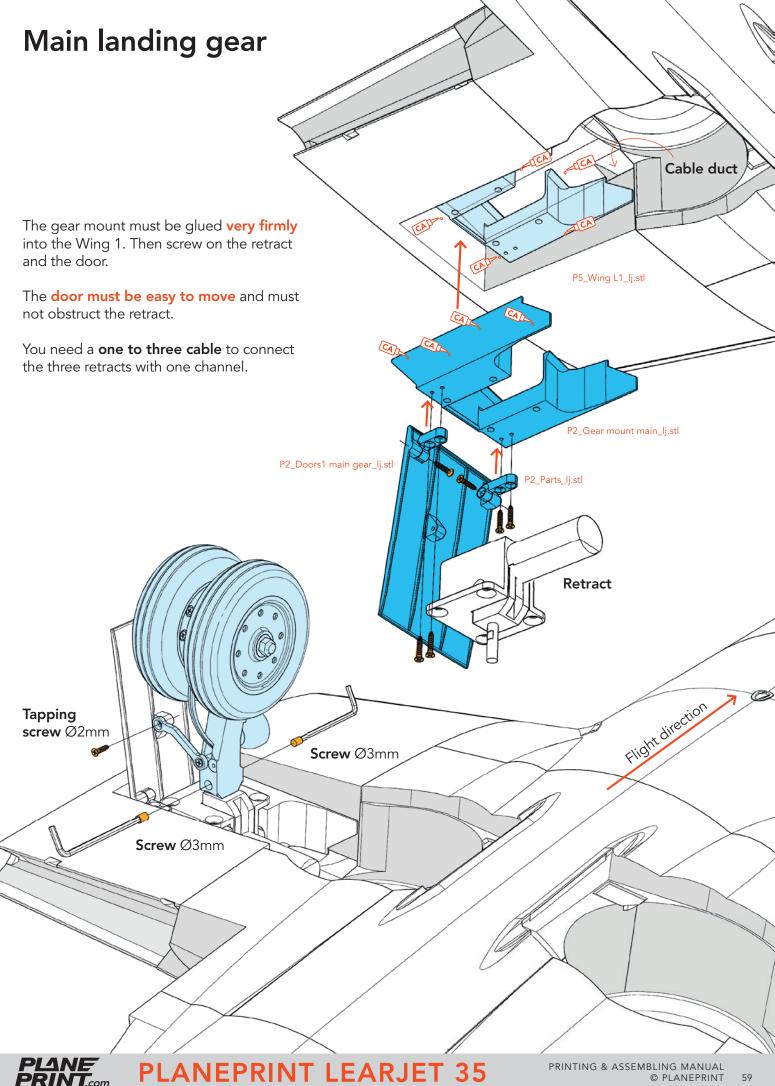
You can also omit the doors if this is too complicated for you or if you have too few channels available on the receiver.

# Main landing gear – suspended





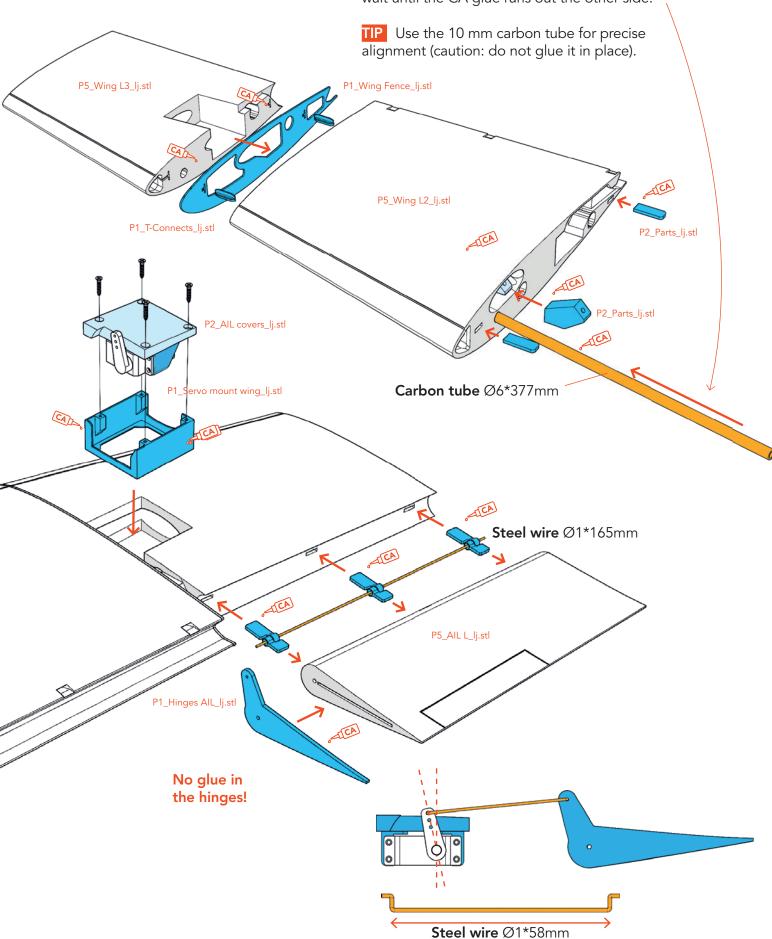




# Wing assembly 🚜

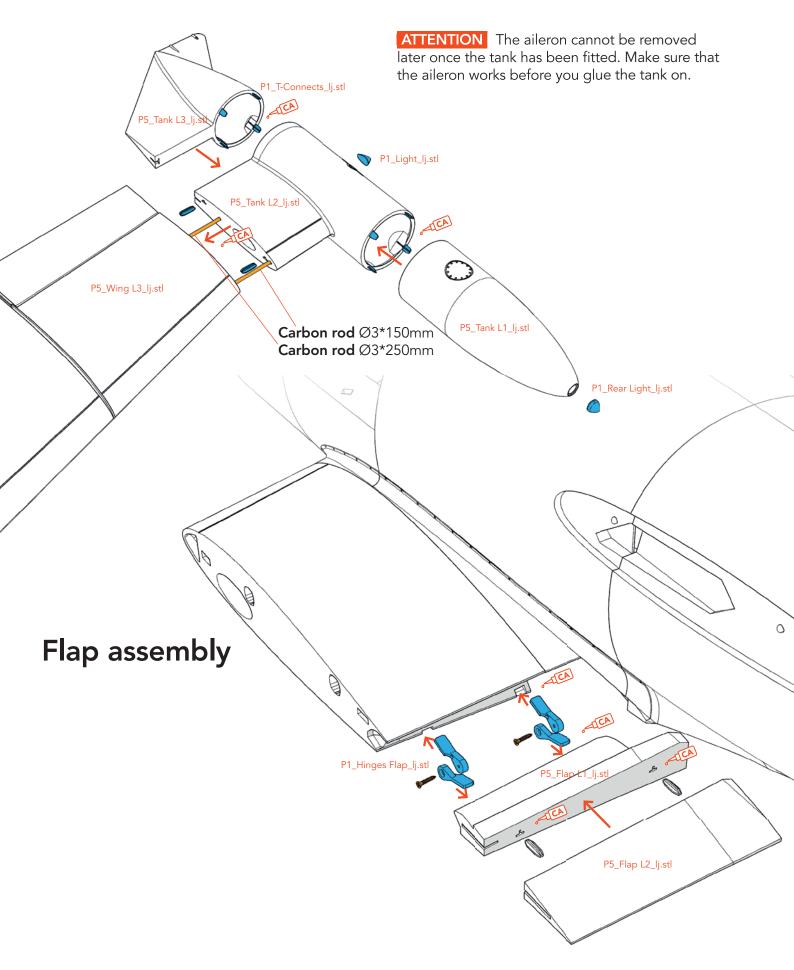


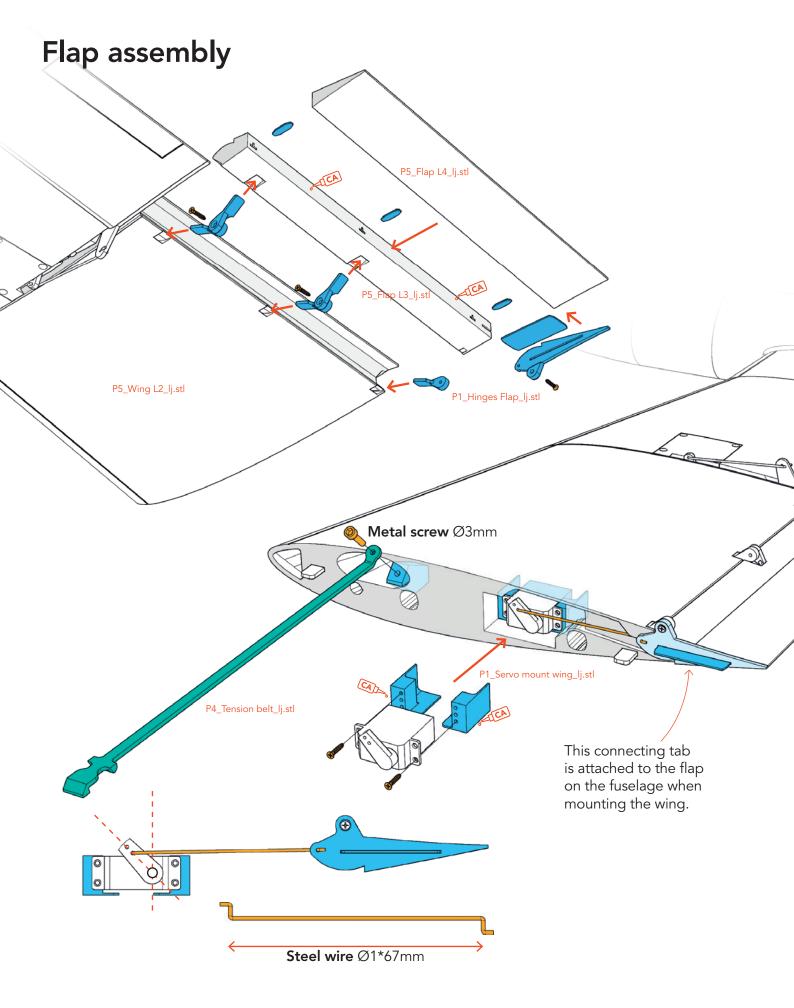
Finally, the carbon tube is inserted into the wing **without** glue. Then let **thin CA glue** run into the gap to connect the tube to the wing along its entire length. Place a rag underneath and wait until the CA glue runs out the other side.

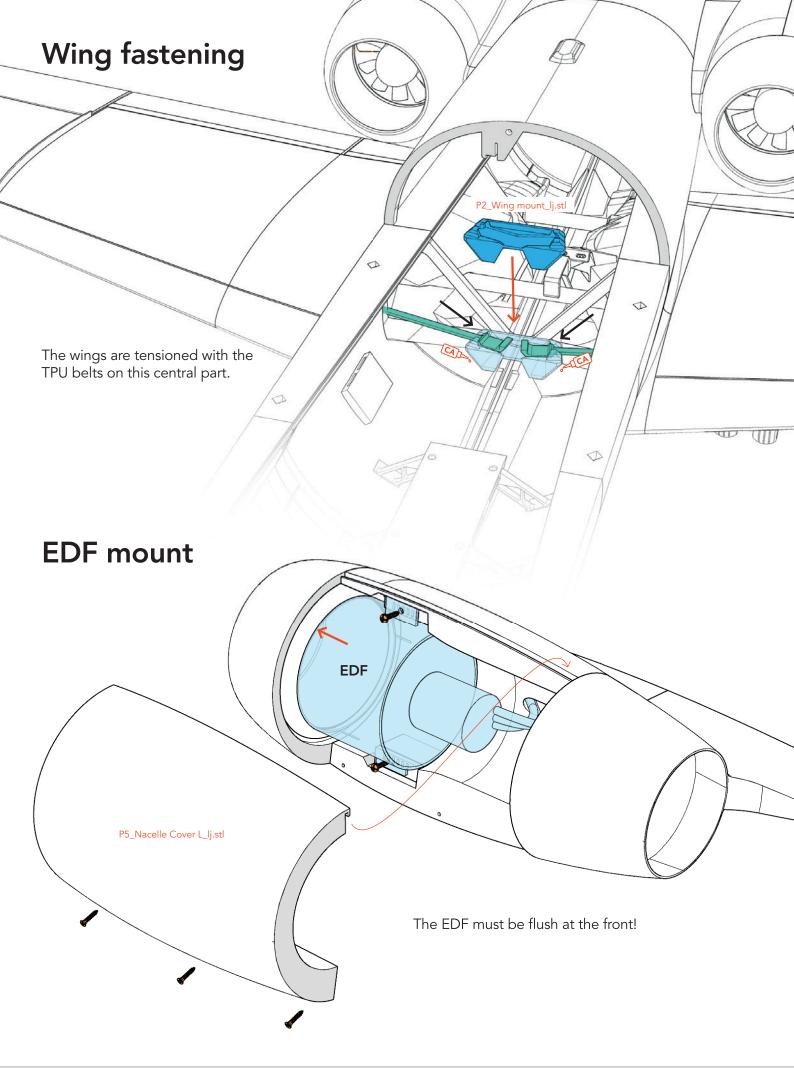


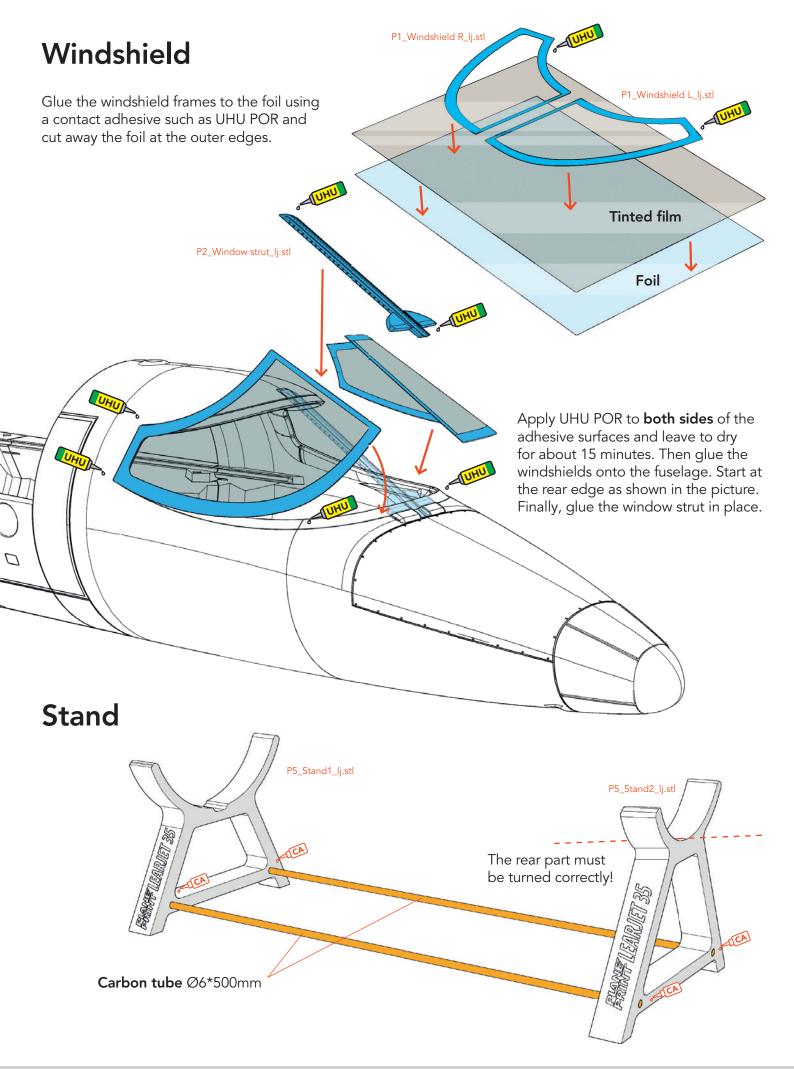
# Wing assembly

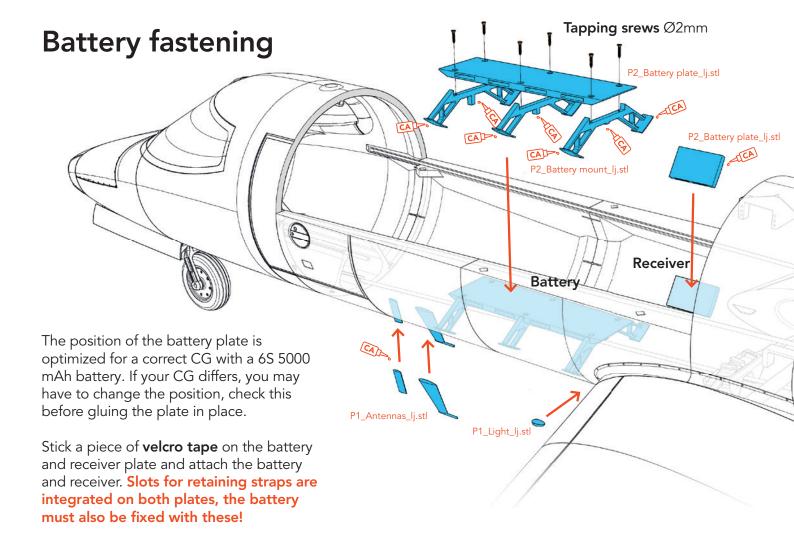


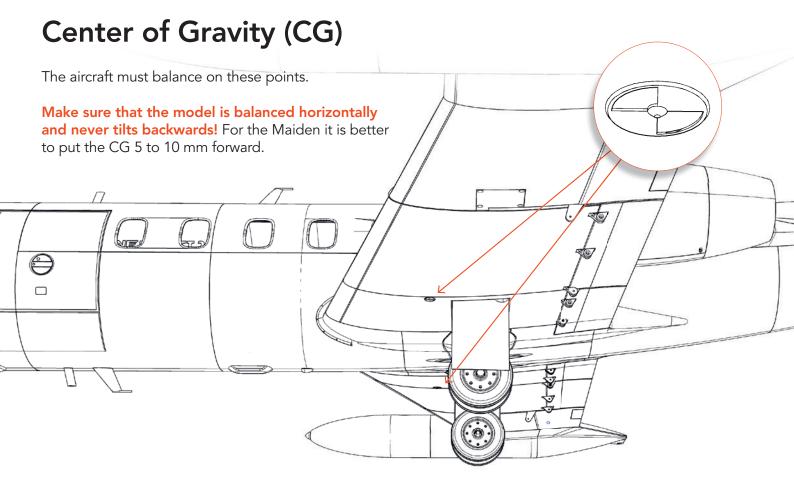




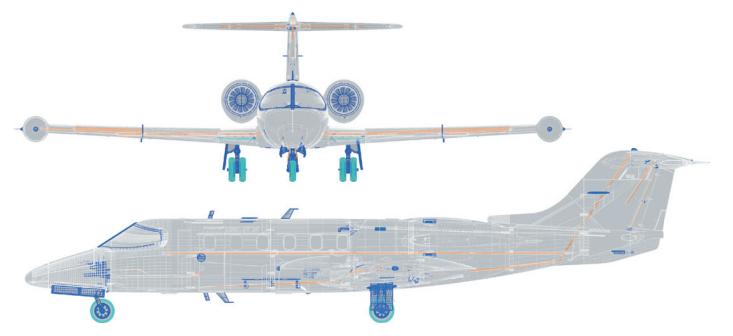




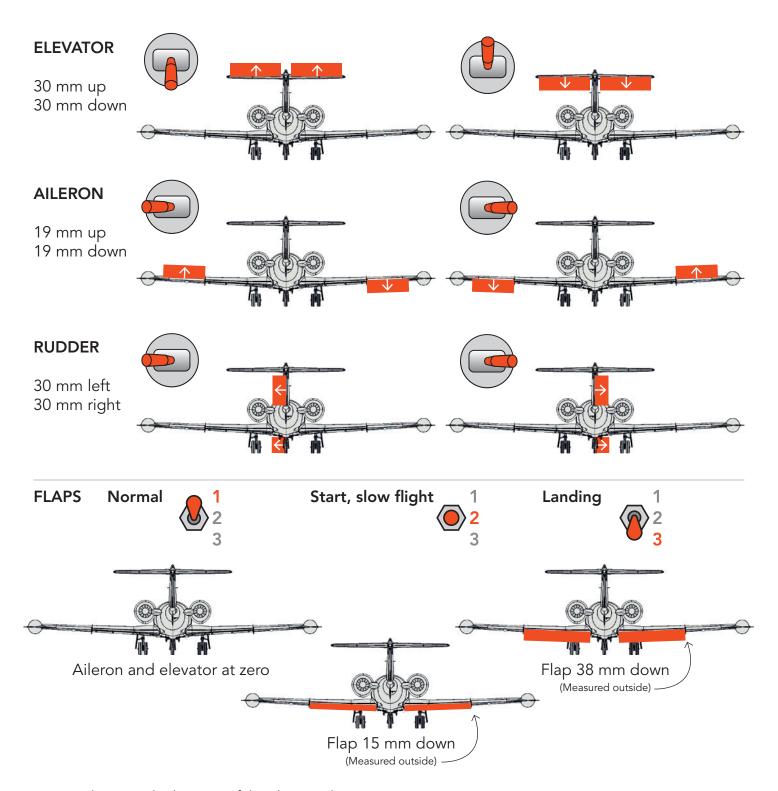






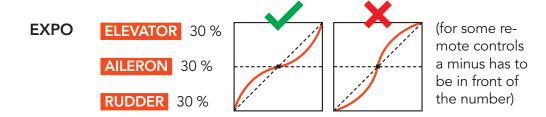


### Control Direction Test Look at the aircraft from behind



No or only minimal admixture of the elevator down is necessary.

NOTE The flaps must be aligned exactly the same in every position, otherwise the aircraft will not fly straight!





#### **AGE RECOMMENDATION 14+**

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

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

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

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

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

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

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

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

Always follow the instructions and warnings for this product and any optional accessories (servos, receivers, motors, propellers, chargers, rechargeable batteries, etc.) carefully. Keep all chemicals, small parts and electrical components out of the reach of children.

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

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

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

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

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

Always remove the battery before disassembling the model.

Keep moving parts clean and dry at all times.

Always allow the parts to cool before touching them.

Always remove the battery after use.

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

Never operate the model with damaged wiring.

Never touch moving parts.

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

