

# **PLANE Slingsby T31** <sup>(adet</sup>

Glider version/Hidden EDF version

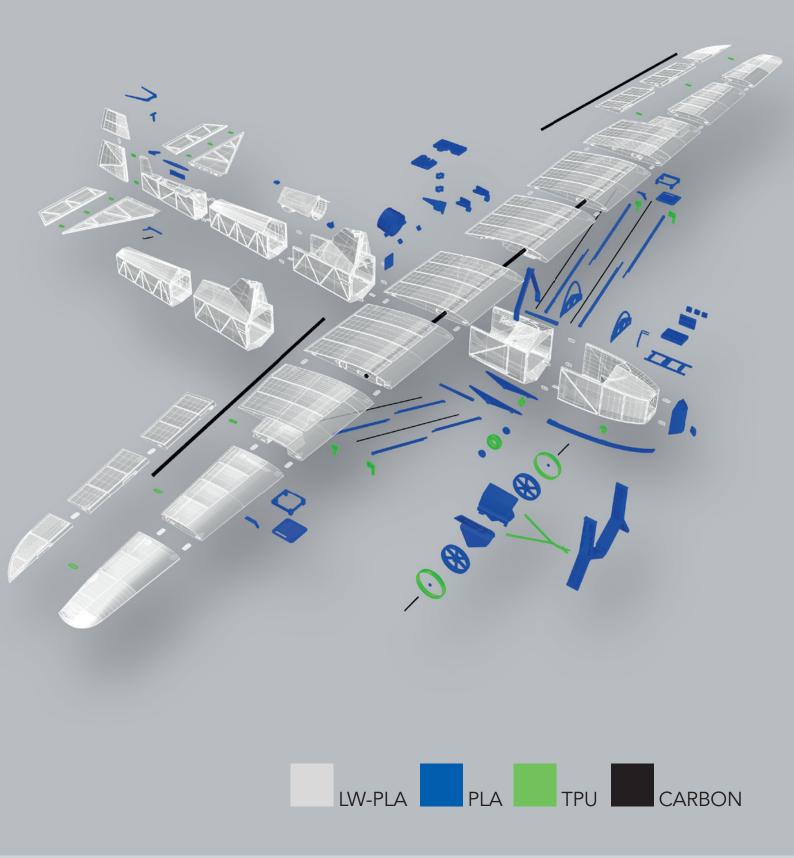




www.planeprint.com

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







**SLINGSBY T31 CADET** 

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### Required accessoires – basic equipment

- LW-PLA (cannot be replaced by PLA!), ~750 grams
- PLA oder bether Tough PLA, ~250 grams
- TPU A95, ~30 grams
- some tapping screws Ø2 mm -
- Metal screw 3\*20mm, 5 pieces (2 nuts included)
- CA super glue (liquid and liquid medium)
- CA activator
- UHU All Purpose Adhesive glue (or equivalent)
- Carbon tube Ø8\*1000mm, 1 piece
- Carbon tube Ø6\*1000mm, 1 piece
- Carbon rod Ø2.5\*1000mm (also possible Ø2mm), 2 pieces
- Steel wire Ø0.8\*1000mm (or Ø1mm), 2 pieces
- Rod connection, 5 pieces
- Servo extension cable 500mm, 4 pieces (or a soldered servo cable extension)
- Self-adhesive Velcro tape
- Some lead (depending on the weight of the battery)
- MPX Connector, 1 piece
- Overhead foil (or binding cover of scripts, office trade)
- Small cable ties

### Tools

Cutter knife, small Philips screwdriver, Sandpaper, Metal saw, Needle nose pliers, Soldering tool

### **RC** Components

**ENGINE 4S EDF 50 MM** – (We use the FMS), but it also works well with 3S.

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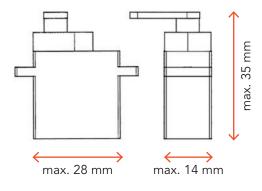
BEC-CONTROLLER suitable for your EDF

BATTERY 4S LiPo-Akku, 2500 – 3000 mAh (ideal weight 300g)

**RECEIVER** 5 Channel (Glider Version)/6 Channel (EDF Version)

SERVOS 5 pieces like MODSTER MEX 55MG BB, Corona 929MG, 939MG, Hitec HS-5070MH or equivalent

Maximum dimensions::



**PLANE PRINT**.com (simply search for: M2 flat head tapping screw assortment)





### Printing the parts – Printing profiles

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

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

PROFILE P1\_Fullbody PROFILE P2\_Hollowbody PROFILE P3\_Surface (Not necessary for this plane) PROFILE P4\_Flex PROFILE P5\_Gyroid

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

### Important for the 1-wall-print (P3, P5)!

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.

For the new PROFILE P5\_Gyroid it is essential to use **Cura Version 5 or later**, It will work with older versions, but the weight of the parts will be higher and the printing time longer.

### PROFILE P5\_Gyroid

and breaks more easily.

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 60 to 70 % (depending on brand). Caution: at too high temperatures, LW-PLA becomes brittle



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

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



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The following parts must be sliced with the PROFILE P1\_Fullbody. **Please note the additional settings for the individual parts!** 

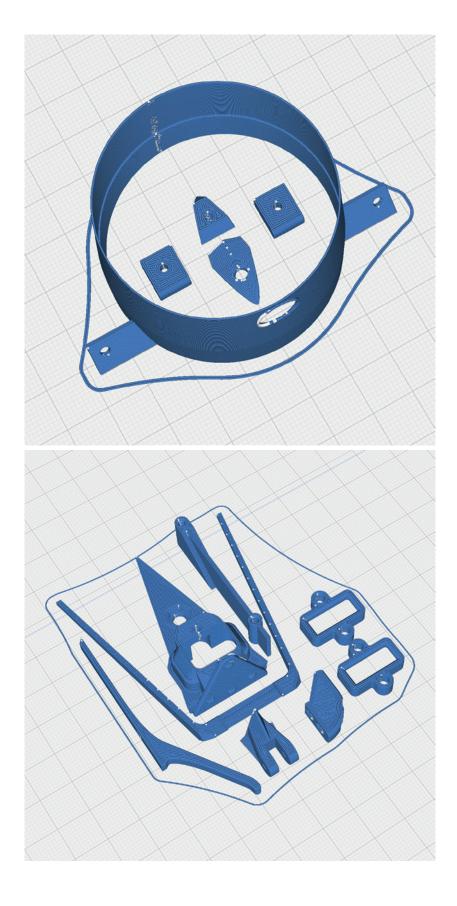
#### P1\_EDF mount\_sy.stl

MATERIAL PLA, Weight: ~ 5 g

#### ADDITIONAL SETTINGS

None required

This part is only necessary for EDF version!



P1\_Parts 1\_sy.stl

MATERIAL PLA, Weight: ~ 11 g

ADDITIONAL SETTINGS

None required

The following parts must be sliced with the PROFILE P1\_Fullbody. Please note the additional settings for the individual parts!

#### P1\_Parts 2\_sy.stl

MATERIAL PLA, Weight: ~ 12 g

ADDITIONAL SETTINGS

None required

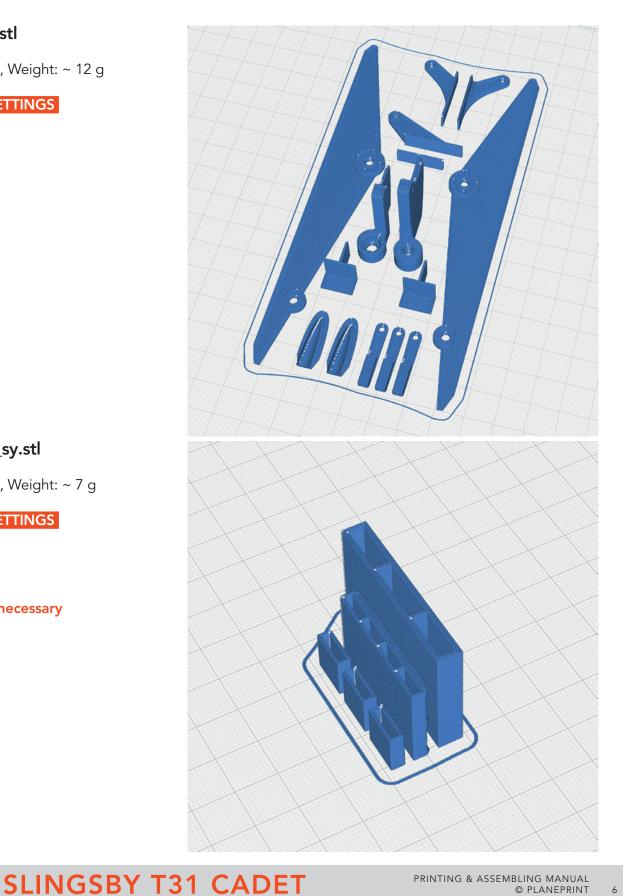
### P1\_RC mount\_sy.stl

MATERIAL PLA, Weight: ~ 7 g

ADDITIONAL SETTINGS

None required

This part is only necessary for EDF version!





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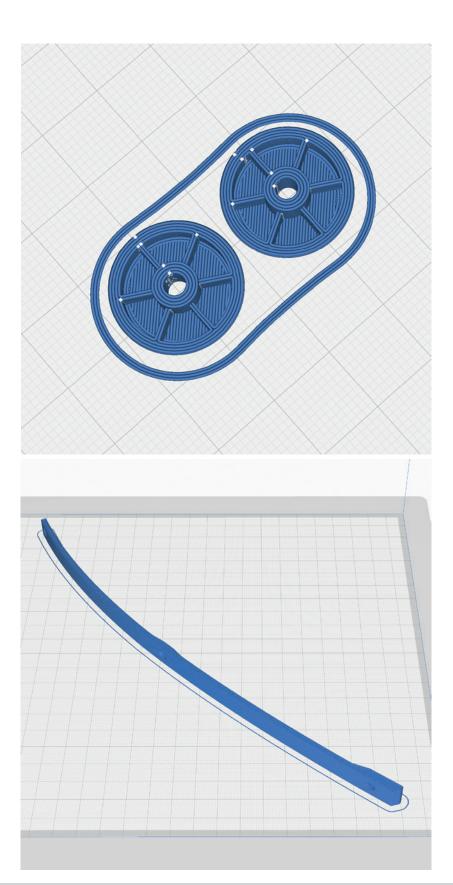
The following parts must be sliced with the PROFILE P1\_Fullbody. Please note the additional settings for the individual parts!

P1\_Rim\_sy.stl

MATERIAL PLA, Weight: ~ 2 g

ADDITIONAL SETTINGS

None required



P1\_Skid\_sy.stl

MATERIAL PLA, Weight: ~ 10 g

ADDITIONAL SETTINGS

• Wall Line Count: 6



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The following parts must be sliced with the PROFILE P1\_Fullbody. **Please note the additional settings for the individual parts!** 

#### P1\_Tower\_sy.stl

MATERIAL PLA, Weight: ~ 10 g

ADDITIONAL SETTINGS

• Wall Line Count: 6

### P1\_Trolley Rims\_sy.stl

MATERIAL PLA, Weight: ~ 14 g

ADDITIONAL SETTINGS

None required



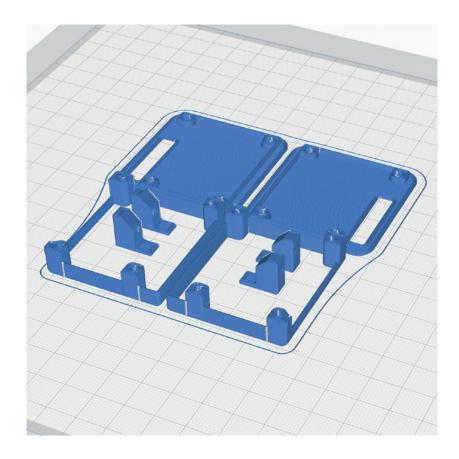
The following parts must be sliced with the PROFILE P1\_Fullbody. **Please note the additional settings for the individual parts!** 

#### P1\_Wingservo mount\_sy.stl

MATERIAL PLA, Weight: ~ 12 g

ADDITIONAL SETTINGS

None required





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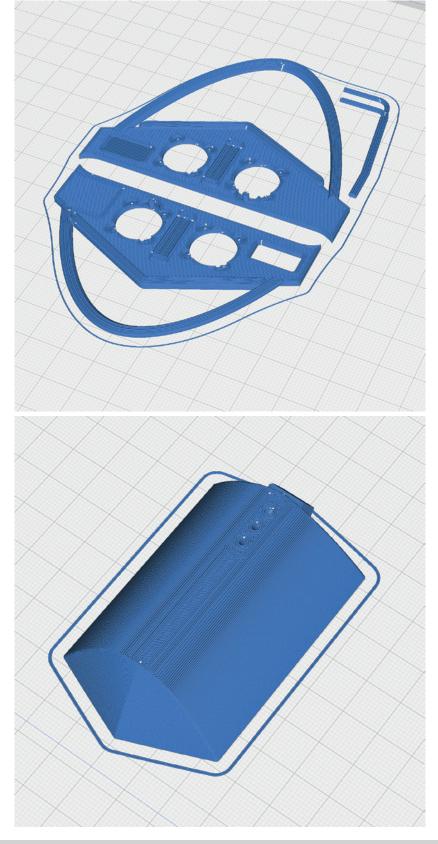
The following parts must be sliced with the PROFILE P2\_HOLLOWBODY. **Please note the additional settings for the individual parts!** 

### P2\_Cockpits\_sy.stl

MATERIAL PLA, Weight: ~ 8 g

ADDITIONAL SETTINGS

None required



P2\_Nose\_sy.stl

MATERIAL PLA, Weight: ~ 17 g

ADDITIONAL SETTINGS

• Wall Line Count: 3



The following parts must be sliced with the PROFILE P2\_HOLLOWBODY. **Please note the additional settings for the individual parts!** 

P2\_Parts\_sy.stl

MATERIAL PLA, Weight: ~ 15 g

ADDITIONAL SETTINGS

None required

### P2\_Servo board\_sy.stl

MATERIAL PLA, Weight: ~ 3 g

ADDITIONAL SETTINGS

None required



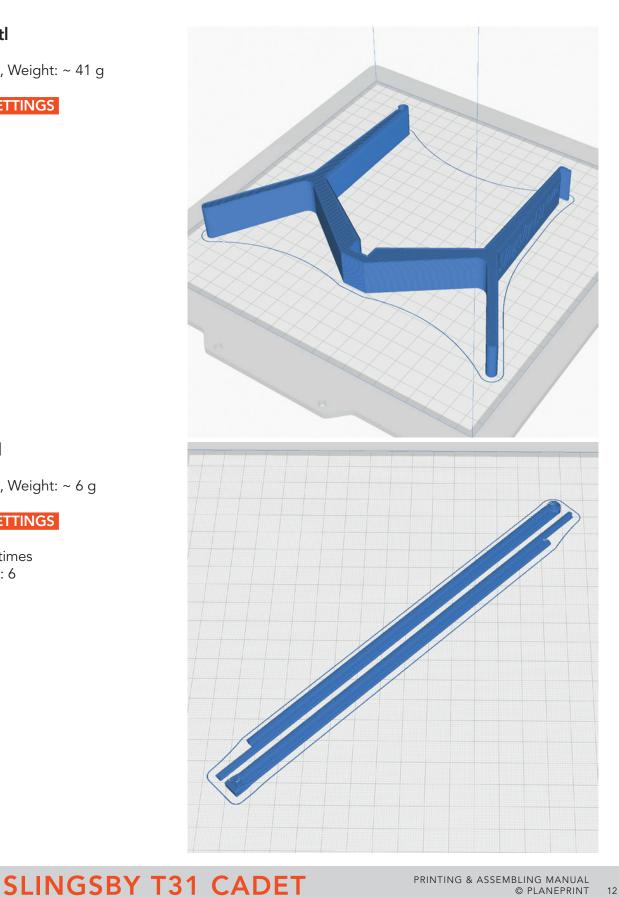
The following parts must be sliced with the PROFILE P2\_HOLLOWBODY. Please note the additional settings for the individual parts!

P2\_Stand\_sy.stl

MATERIAL PLA, Weight: ~ 41 g

ADDITIONAL SETTINGS

None required



P2\_Strut\_sy.stl

MATERIAL PLA, Weight: ~ 6 g

ADDITIONAL SETTINGS

- print this STL 4 times
- Wall Line Count: 6



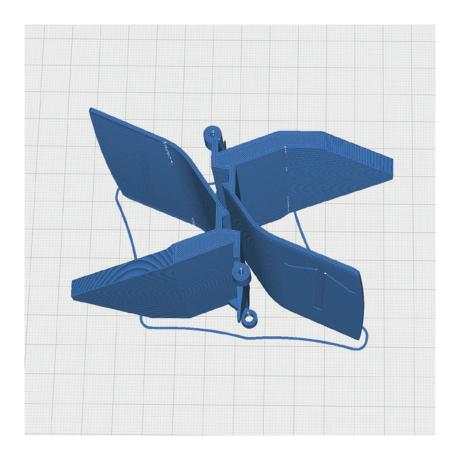
The following parts must be sliced with the PROFILE P2\_HOLLOWBODY. **Please note the additional settings for the individual parts!** 

P2\_Trolley\_sy.stl

MATERIAL PLA, Weight: ~ 39 g

ADDITIONAL SETTINGS

None required





### PROFILE P4\_Flex TPU A95

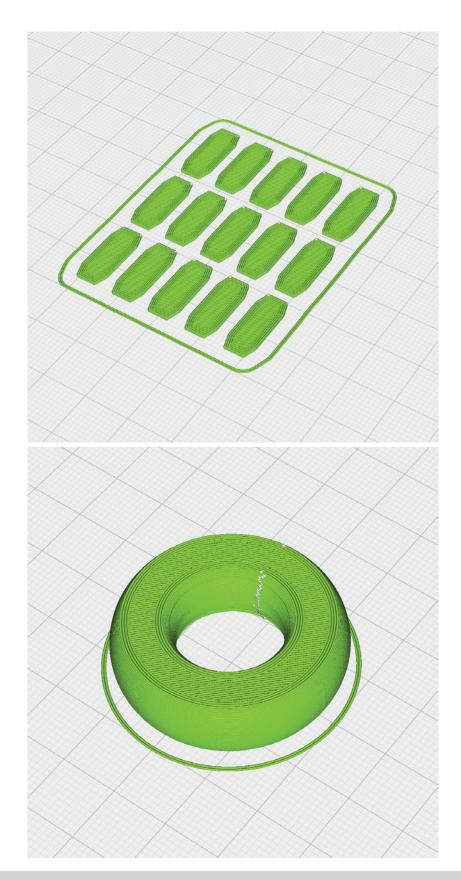
The following parts must be sliced with the PROFILE P4\_Flex. Please note the additional settings for the individual parts!

#### P4\_Hinges\_sy.stl

MATERIAL TPU A95, Weight: ~ 1 g

#### ADDITIONAL SETTINGS

None required



P4\_Tire\_sy.stl

MATERIAL TPU A95, Weight: ~ 6 g

#### ADDITIONAL SETTINGS

- Wall Line Count: 4
- Top Layers: 4
- Bottom Layers: 4
- Infill Density: 15 %
- Infill Pattern: Gyroid



### PROFILE P4\_Flex TPU A95

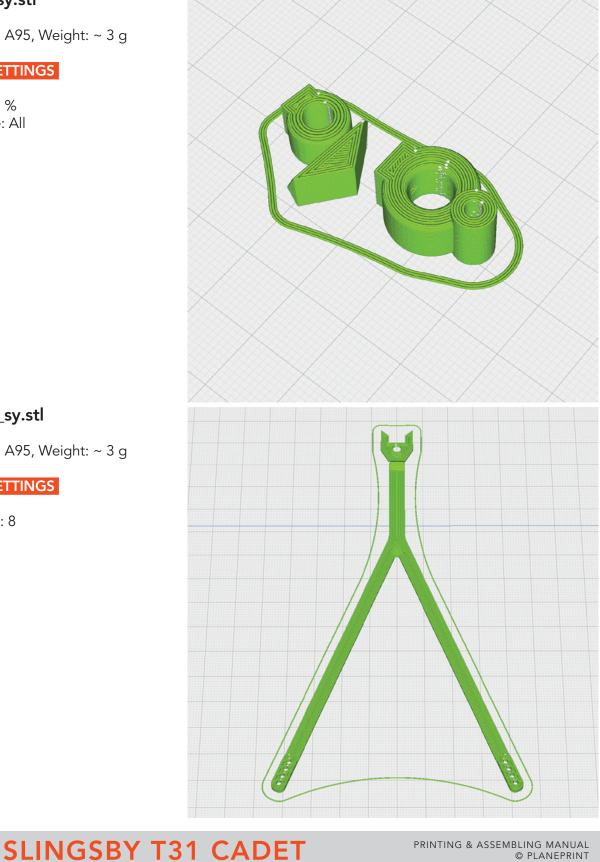
The following parts must be sliced with the PROFILE P4\_Flex. Please note the additional settings for the individual parts!

#### P4\_TPU Skid\_sy.stl

MATERIAL TPU A95, Weight: ~ 3 g

#### ADDITIONAL SETTINGS

- Infill Density: 15 %
- Combing Mode: All



### P4\_Trolly Belt\_sy.stl

MATERIAL TPU A95, Weight: ~ 3 g

#### ADDITIONAL SETTINGS

• Wall Line Count: 8



### PROFILE P4\_Flex TPU A95

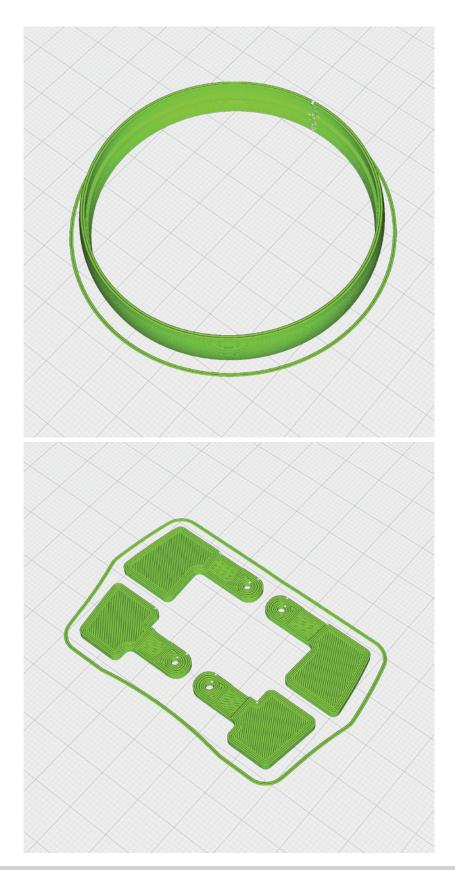
The following parts must be sliced with the PROFILE P4\_Flex. Please note the additional settings for the individual parts!

#### P4\_Trolly Tire\_sy.stl

MATERIAL TPU A95, Weight: ~ 3 g

#### ADDITIONAL SETTINGS

None required



### P4\_Wingparts TPU\_sy.stl

MATERIAL TPU A95, Weight: ~ 3 g

#### ADDITIONAL SETTINGS

None required





The following parts must be sliced with the PROFILE P5\_Gyroid. Please note the additional settings for the individual parts! It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment!

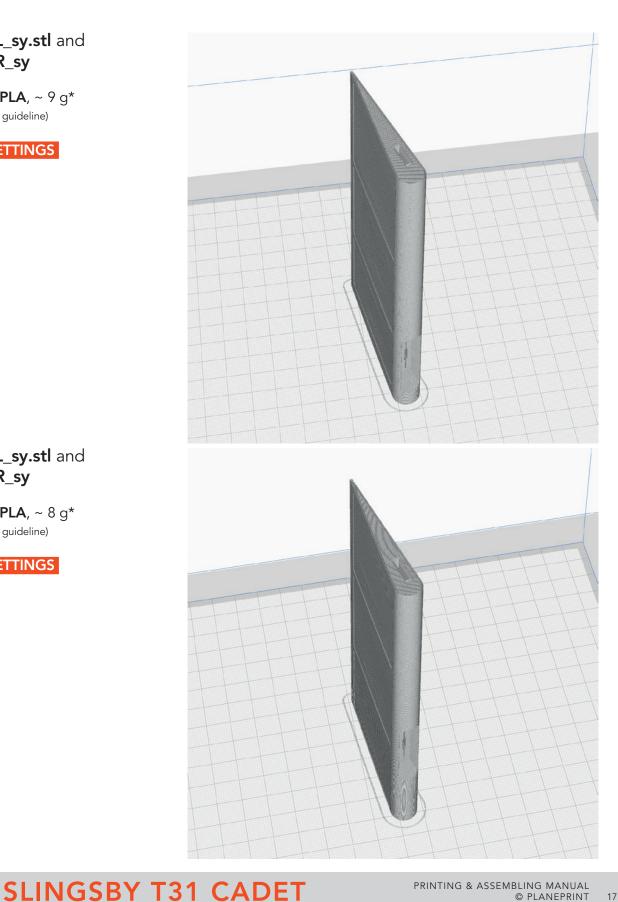
### P5\_Aileron 1-L\_sy.stl and P5\_Aileron 1-R\_sy

#### MATERIAL LW-PLA, ~ 9 g\*

\*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required



#### P5\_Aileron 2-L\_sy.stl and P5\_Aileron 2-R\_sy

MATERIAL LW-PLA, ~ 8 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required



The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

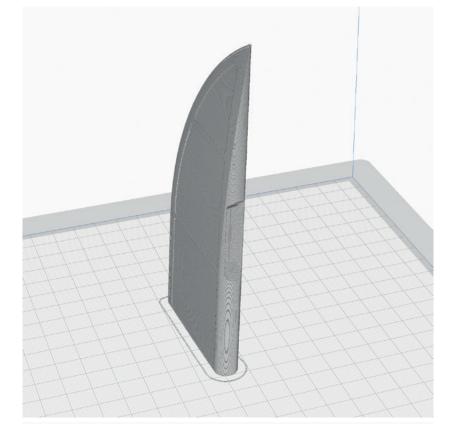
### P5\_Aileron 3-L\_sy.stl and P5\_Aileron 3-R\_sy.stl

MATERIAL LW-PLA, ~ 6 g\*

\*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required

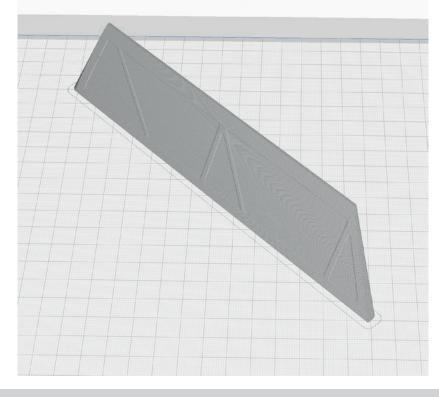


### P5\_Elevator-L\_sy.stl and P5\_Elevator-R\_sy.stl

**MATERIAL** LW-PLA, ~ 8 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required





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The following parts must be sliced with the PROFILE P5\_Gyroid. Please note the additional settings for the individual parts! It is essential to print these parts with LW-PLA!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

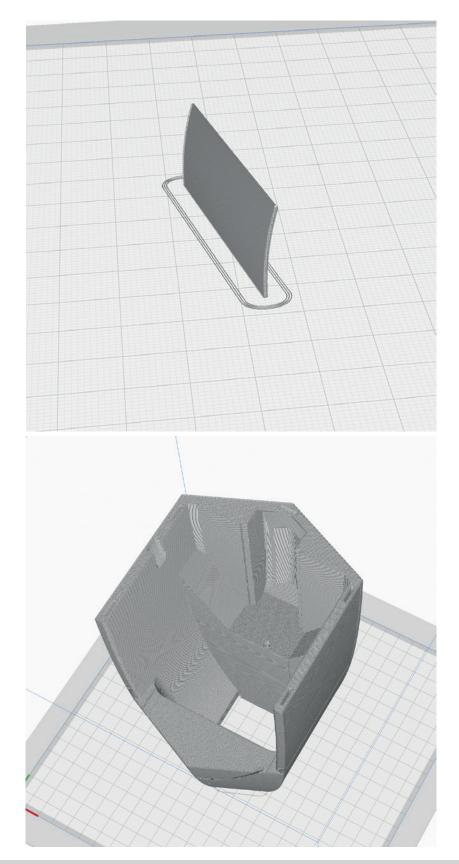
#### P5\_Fin EDF\_sy.stl

MATERIAL LW-PLA, ~ 2 g\*

\*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required



P5\_Fus 1\_sy.stl

**MATERIAL LW-PLA**, ~ 58 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required



The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

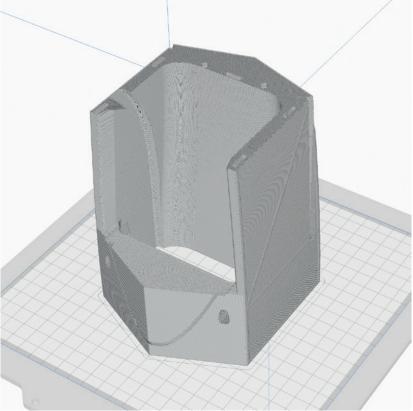
**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

#### P5\_Fus 2\_sy.stl

MATERIAL LW-PLA, ~ 58 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required

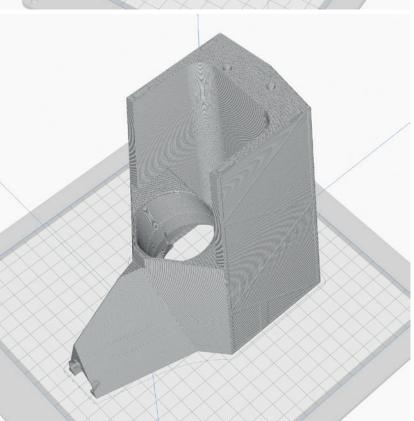


#### P5\_Fus 3 Glider\_sy.stl or P5\_Fus 3 EDF A\_sy.stl

MATERIAL LW-PLA, ~ 68 or 62 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required





The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

#### P5\_Fus 3 EDF B\_sy.stl

**MATERIAL** LW-PLA, ~ 2 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required

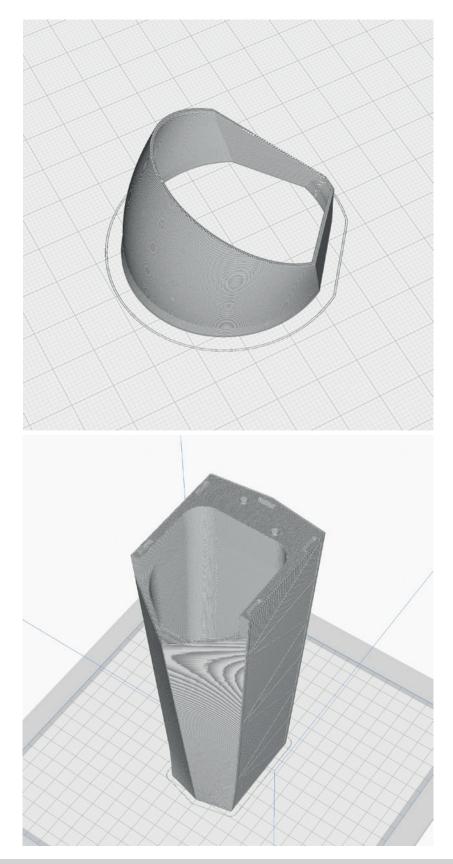
This part is only necessary for EDF version!



**MATERIAL LW-PLA**, ~ 44 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required





The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

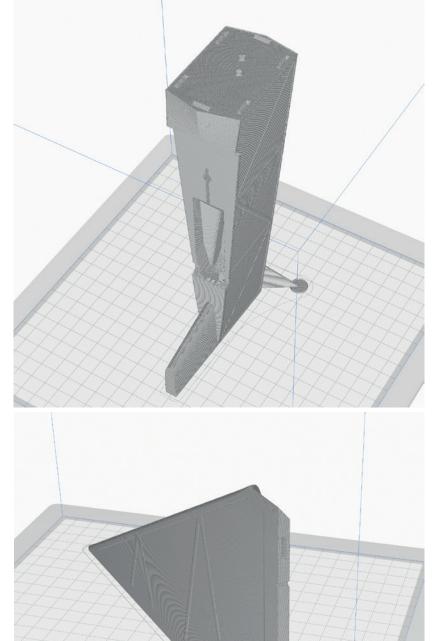
P5\_Fus 5\_sy.stl

MATERIAL LW-PLA, ~ 28 g\*

\*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required



P5\_HS-L\_sy.stl and P5\_HS-R\_sy.stl

**MATERIAL LW-PLA**, ~ 11 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required



The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

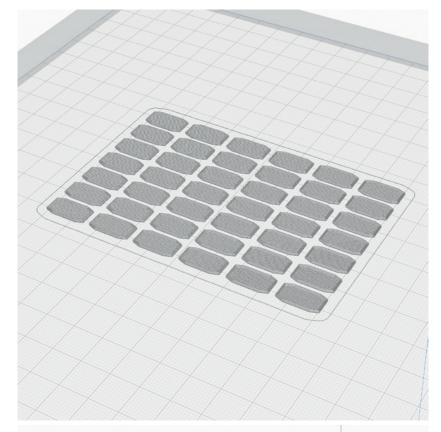
**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

#### P5\_Interconnects\_sy.stl

**MATERIAL LW-PLA**, ~ 2 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required

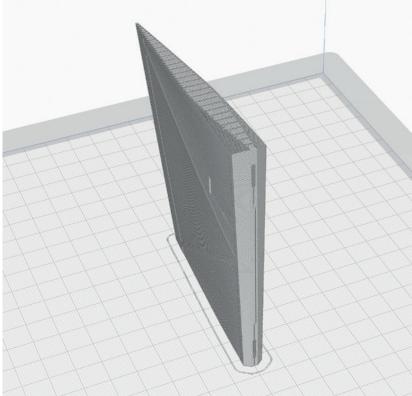


#### P5\_Rudder 1\_sy.stl

**MATERIAL LW-PLA**, ~ 7 g\* \*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required





The following parts must be sliced with the PROFILE P5\_Gyroid. Please note the additional settings for the individual parts! It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment!

#### P5\_Rudder 2\_sy.stl

MATERIAL LW-PLA, ~ 5 g\*

\*Weighed (approximate guideline)

ADDITIONAL SETTINGS

None required

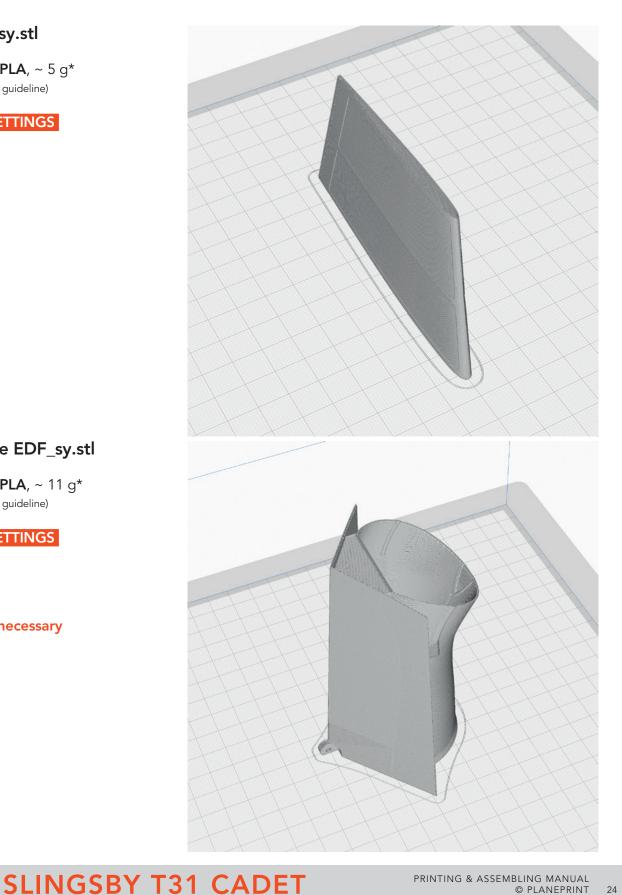
### P5\_Thrust tube EDF\_sy.stl



#### ADDITIONAL SETTINGS

None required

This part is only necessary for EDF version!





The following parts must be sliced with the PROFILE P5\_Gyroid. Please note the additional settings for the individual parts! It is essential to print these parts with LW-PLA!

Basic settings for LW-PLA: Please follow the instructions in our WINGTEST AND CALIBRATION TOOL on our website for correct adjustment!

### P5\_Wing 1-L\_sy.stl and P5\_Wing 1-R\_sy.stl

MATERIAL LW-PLA, ~ 51 q\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

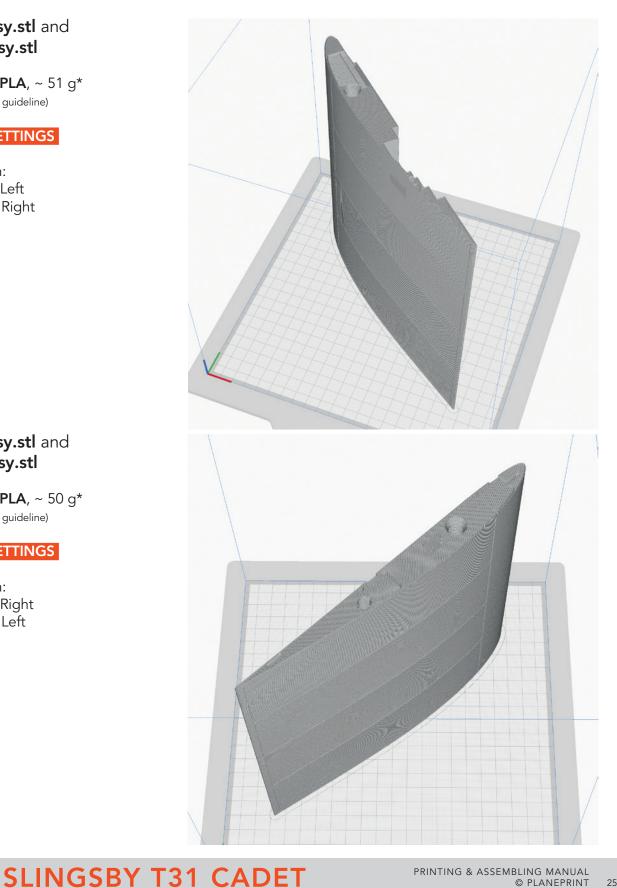
• Z Seam Position: Wing 1-L: Back Left Wing 1-R: Back Right

#### P5\_Wing 2-L\_sy.stl and P5\_Wing 2-R\_sy.stl

MATERIAL LW-PLA, ~ 50 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

• Z Seam Position: Wing 2-L: Back Right Wing 2-R: Back Left





The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

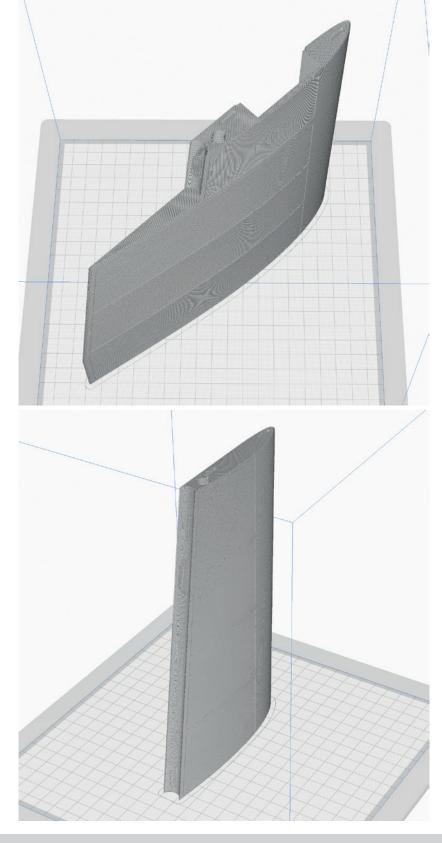
**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

## P5\_Wing 3-L\_sy.stl and P5\_Wing 3-R\_sy.stl

**MATERIAL LW-PLA**, ~ 43 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required



### P5\_Wing 4-L\_sy.stl and P5\_Wing 4-R\_sy.stl

**MATERIAL LW-PLA**, ~ 24 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required



The following parts must be sliced with the PROFILE P5\_Gyroid. **Please note the additional settings** for the individual parts! It is essential to print these parts with LW-PLA!

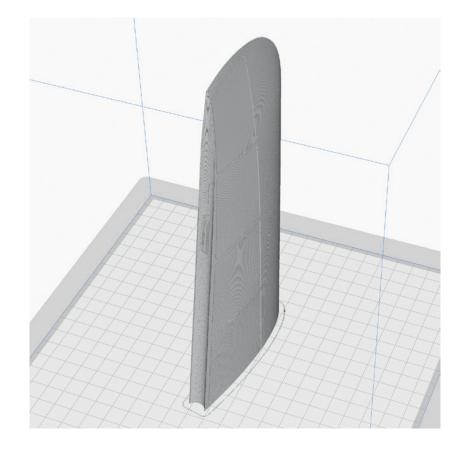
**Basic settings for LW-PLA:** Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment!

## P5\_Wing 5-L\_sy.stl and P5\_Wing 5-R\_sy.stl

**MATERIAL LW-PLA**, ~ 15 g\* \*Weighed (approximate guideline)

#### ADDITIONAL SETTINGS

None required







### **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.
- STEP 3 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.

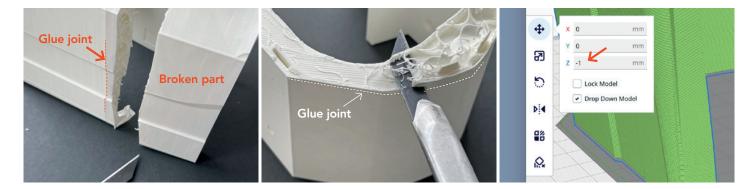
After assembly, **align the two parts exactly** and wipe off the excess CA glue from the surface with a cloth. Now spray with activator spray along the gluing surface and carefully press the parts together.

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

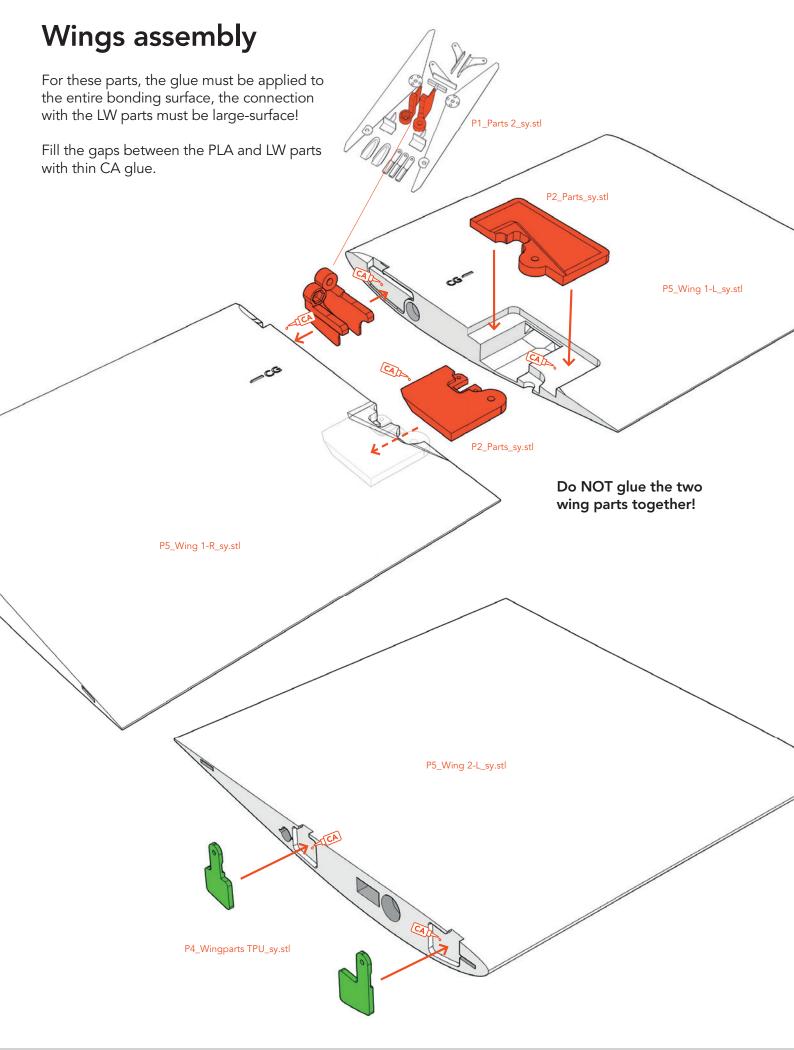


### **PROFILES 5** parts are easy to repair

- **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!**
- **STEP 3** 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.

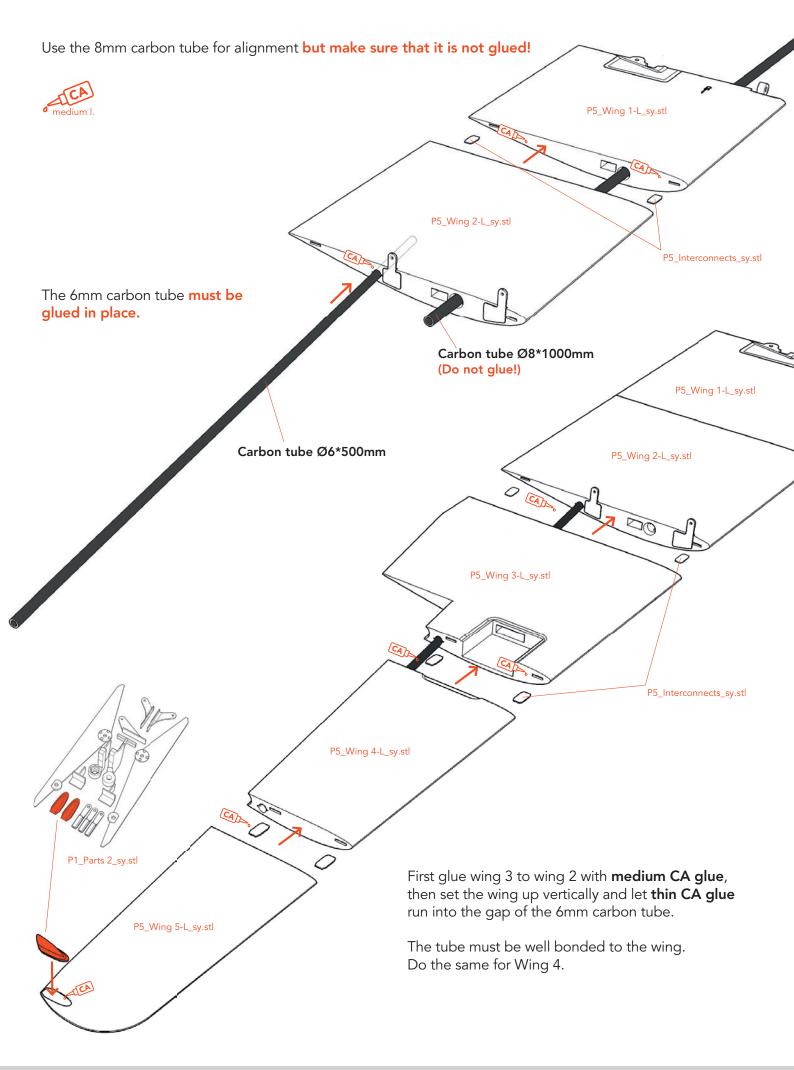




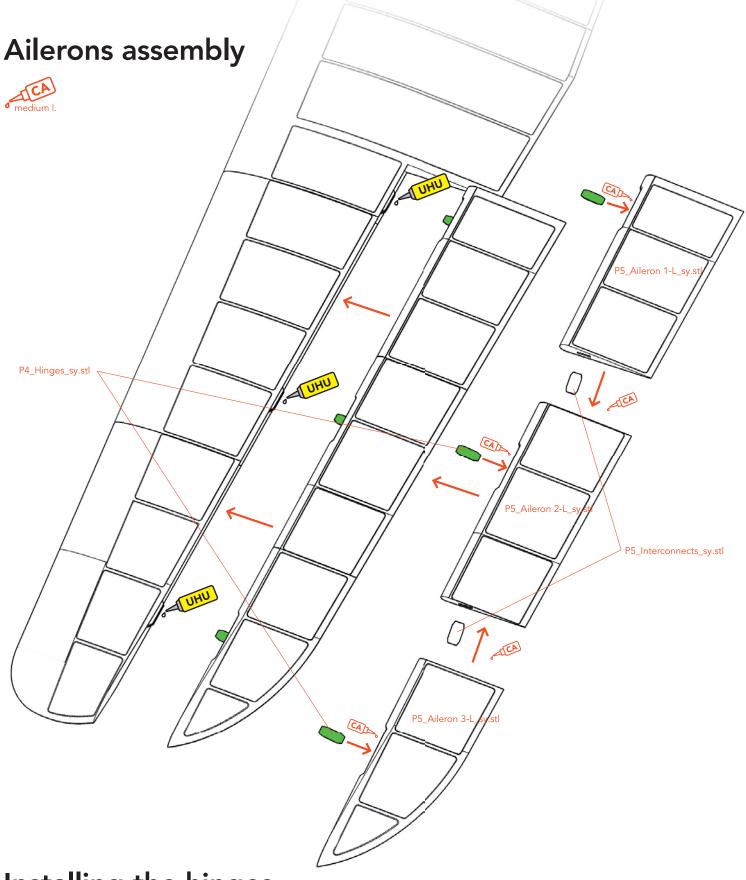


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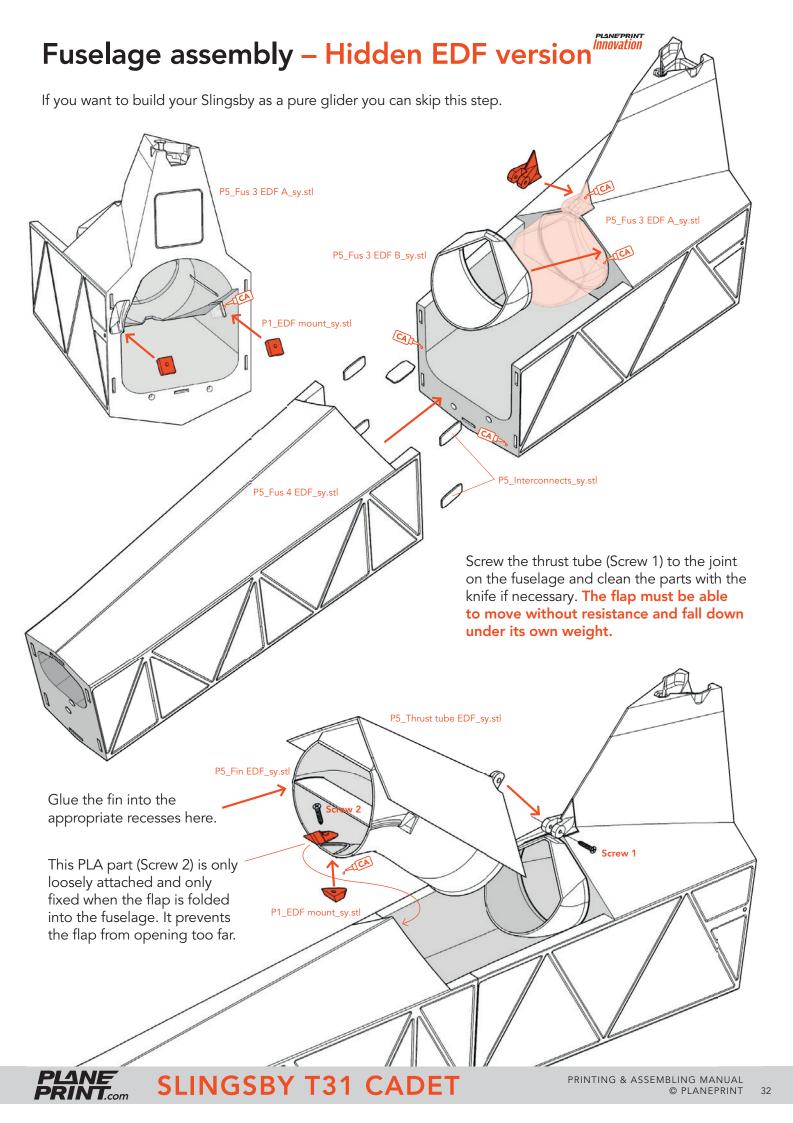


### Installing the hinges

First glue the hinges into the aileron with **thin CA glue**. **Make sure that there is no glue on the protruding hinge to maintain flexibility**. To bond the aileron to the wing, use an adhesive that cures **slowly**, such as **UHU All Purpose Adhesive**. **Do not put the glue on the hinges**, but on the gaps in the wing, so that the movable part of the hinge between the wing and the aileron remains free of glue. Then push the aileron all the way to the wing and wait until the glue is dry.

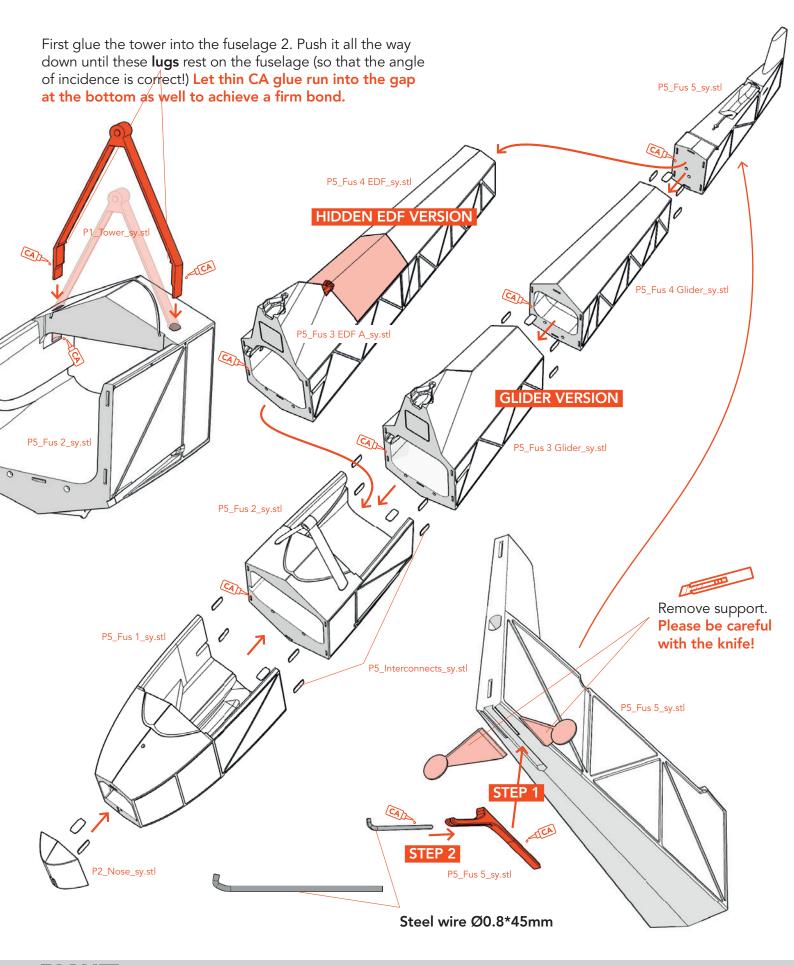






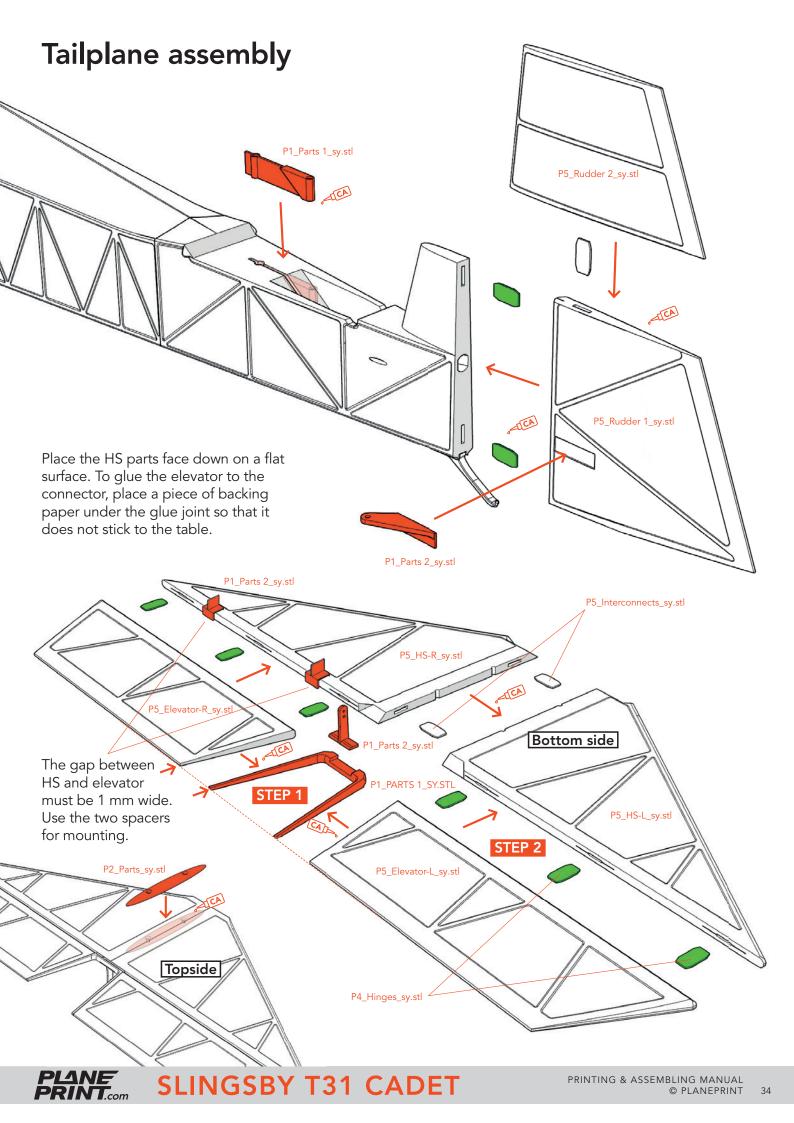
### **Fuselage assembly**

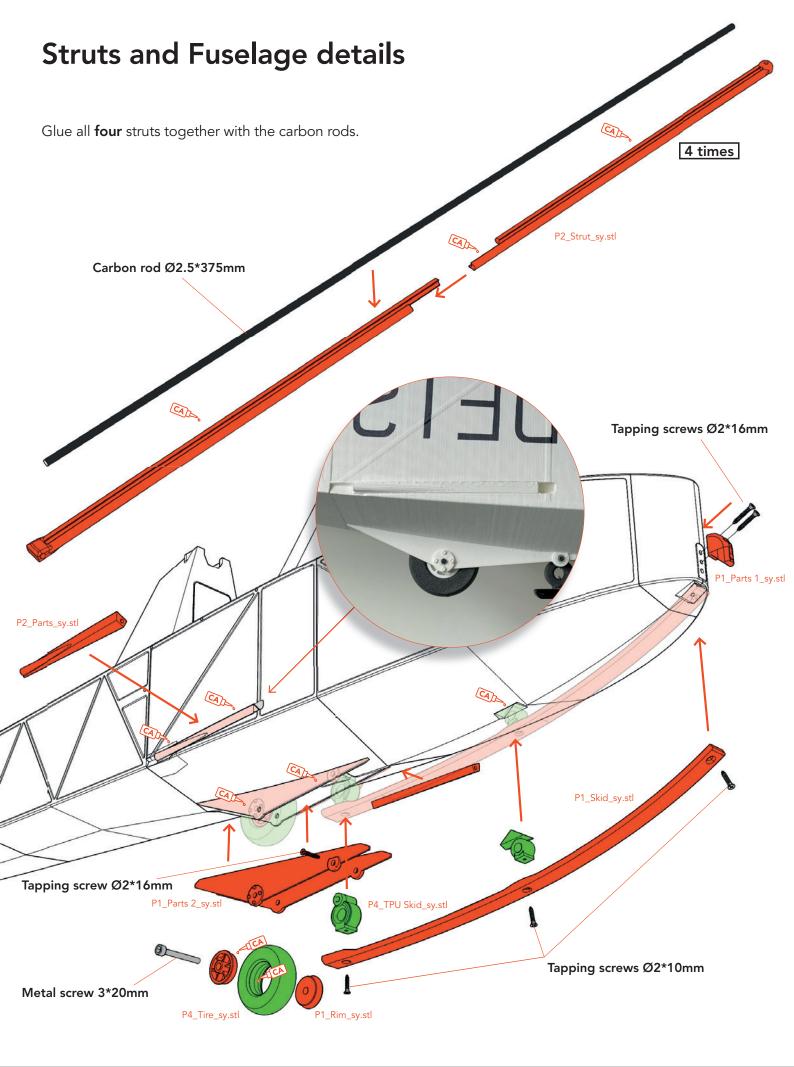
**IMPORTANT** at this point you have to decide if you want to build the **EDF version** or the **Glider version**!



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### Cokpit and glass canopy

Print this page and use the glass template to cut out the foils and instrument panels for the cockpits.

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

Fix the foil on the printout and cut out the windows exactly with the knife.





FRONT

Template rear window



Template front window

Bend the foils and insert them from behind into the slot on the fuselage. It is sufficient to fix them at the left and right corners with some CA glue.

Before gluing, protect the glass with a piece of adhesive tape so that the glue cannot create clouds on the glass.

STEP

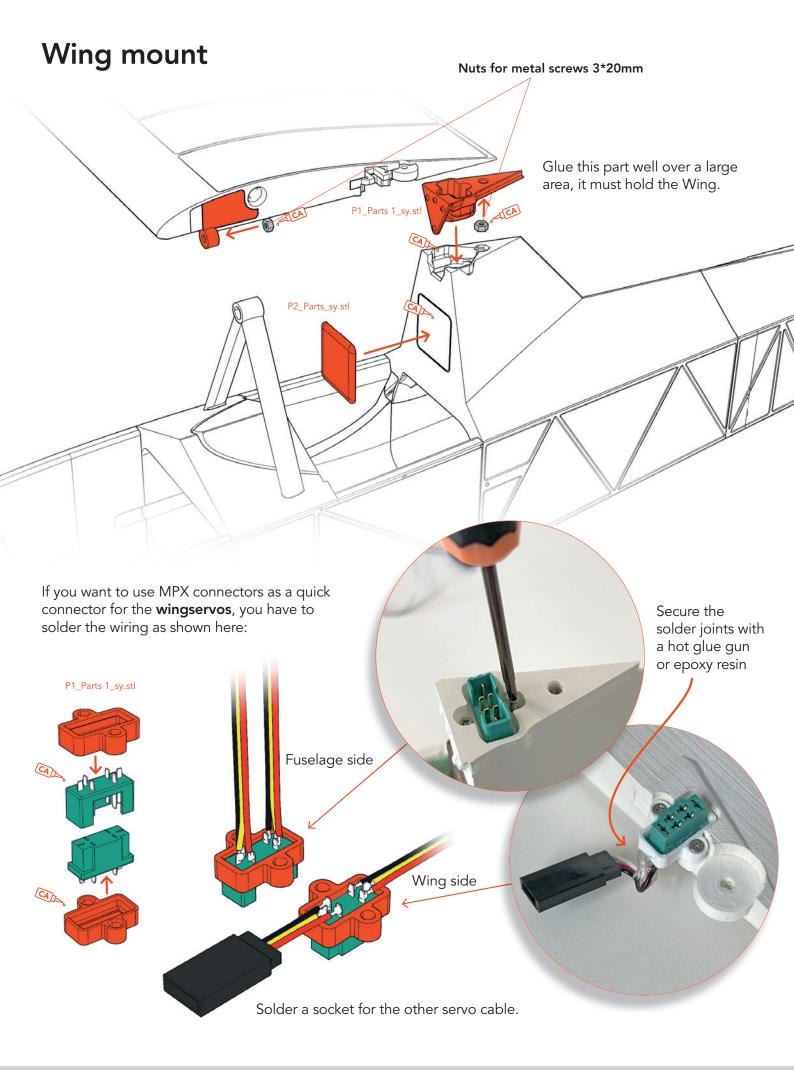


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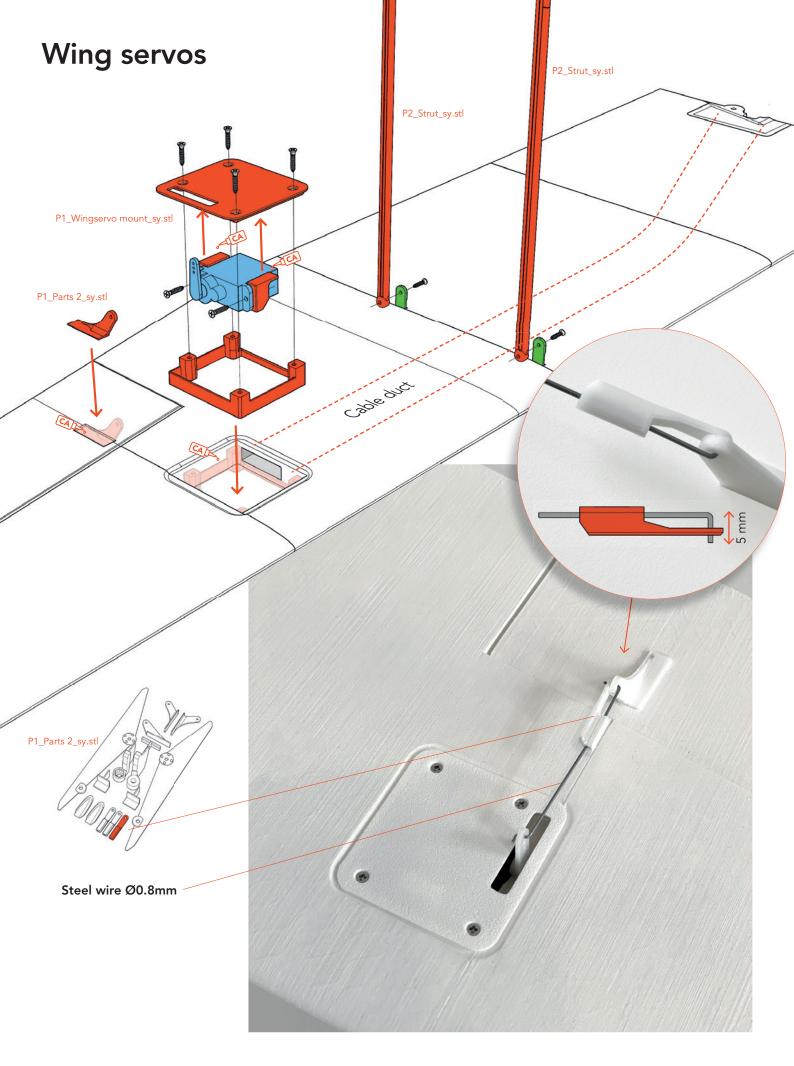
STEP 1

2\_Cockpits\_sy.stl

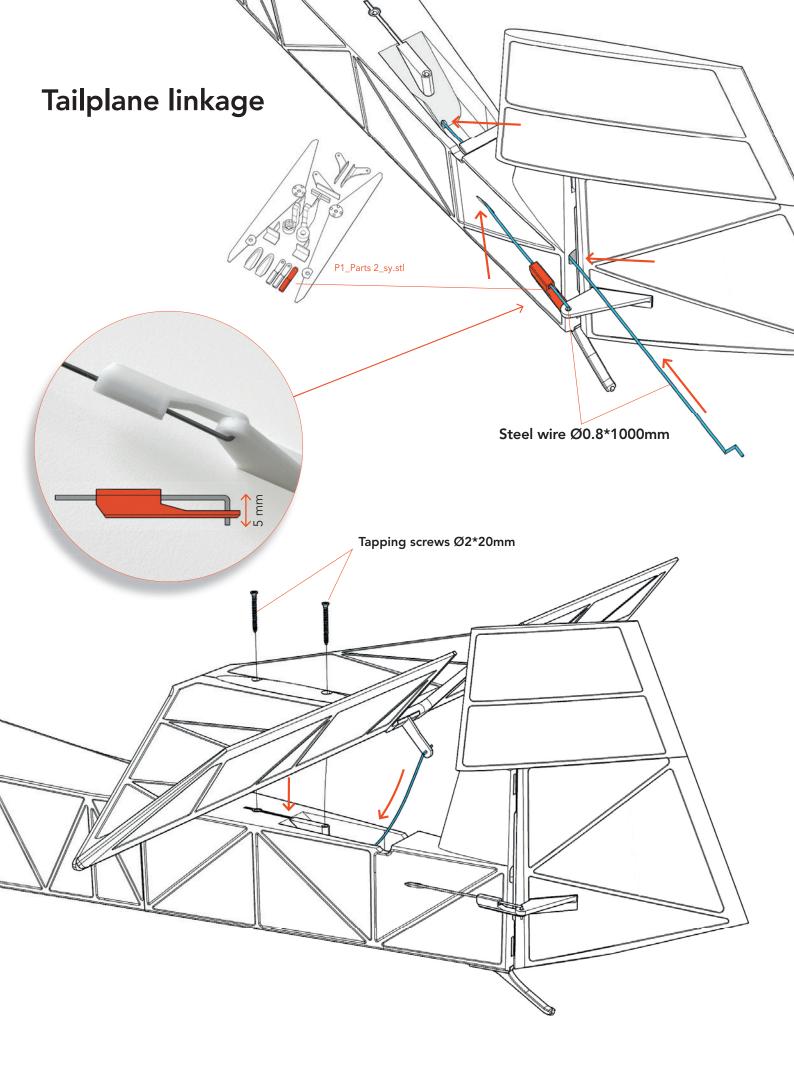
P2\_Cockpits\_sy.stl



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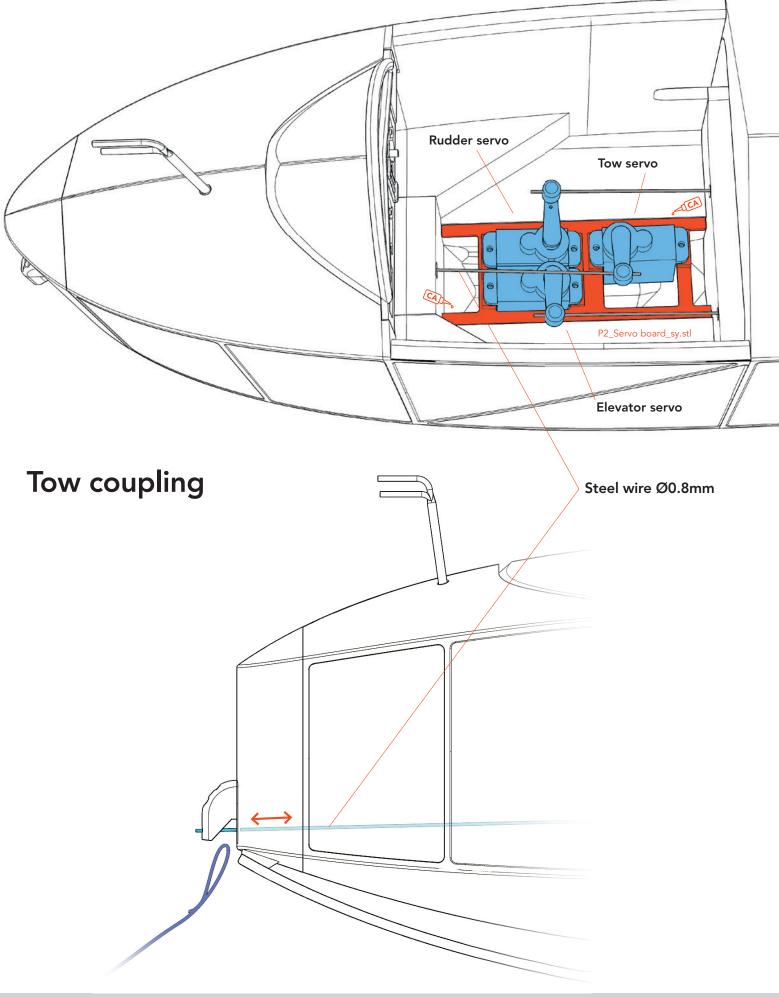






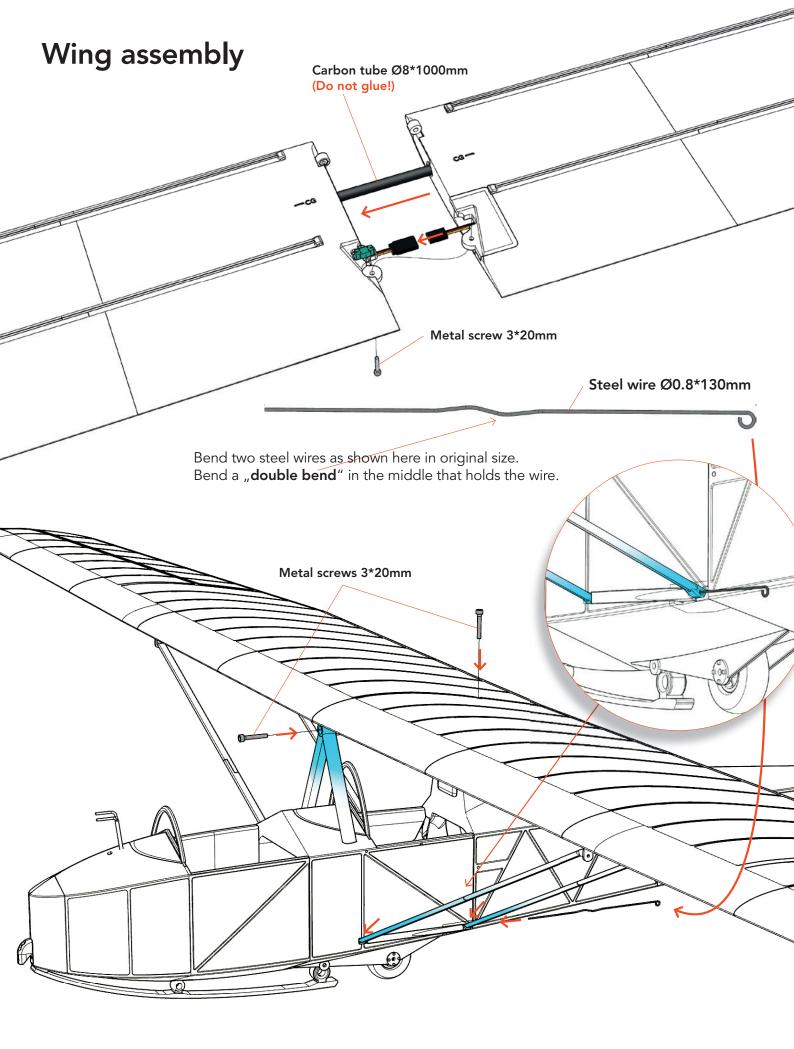


### Fuselage servos





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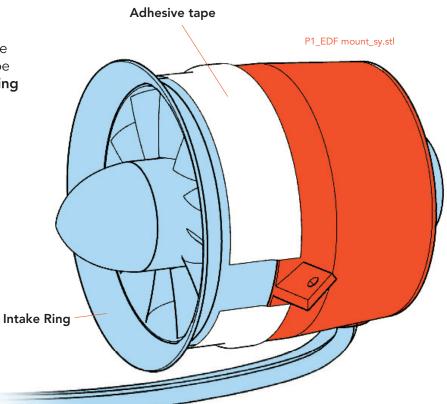
## Hidden EDF mounting

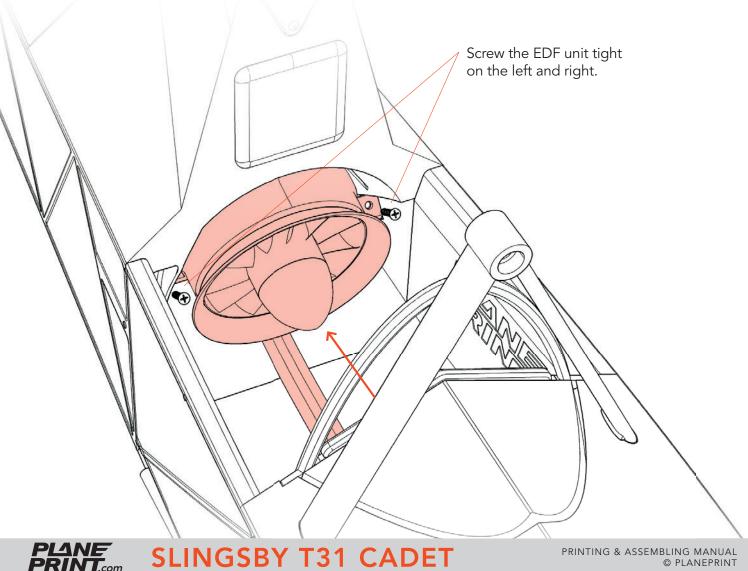
Insert the EDF into the EDF tube and feed the cables through the hole on the bottom. Then tape it with adhesive tape and make sure to mount the intake ring that comes with the EDF!

#### Without this intake ring the EDF has about 40% less power!

Also seal the cables at the outlet with adhesive tape.

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#### **RC** components

EDF -

Make sure that all cables in the area of the EDF are well secured and cannot be sucked in!

P1\_RC mount\_sy.stl

Controller

Glue the **battery plate** and the **controller plate** to the fuselage.

P1\_RC mount\_sy.stl

Attach the battery with Velcro and the controller with cable ties. Note that the battery must not slip backwards even during jerky tows!



Receiver

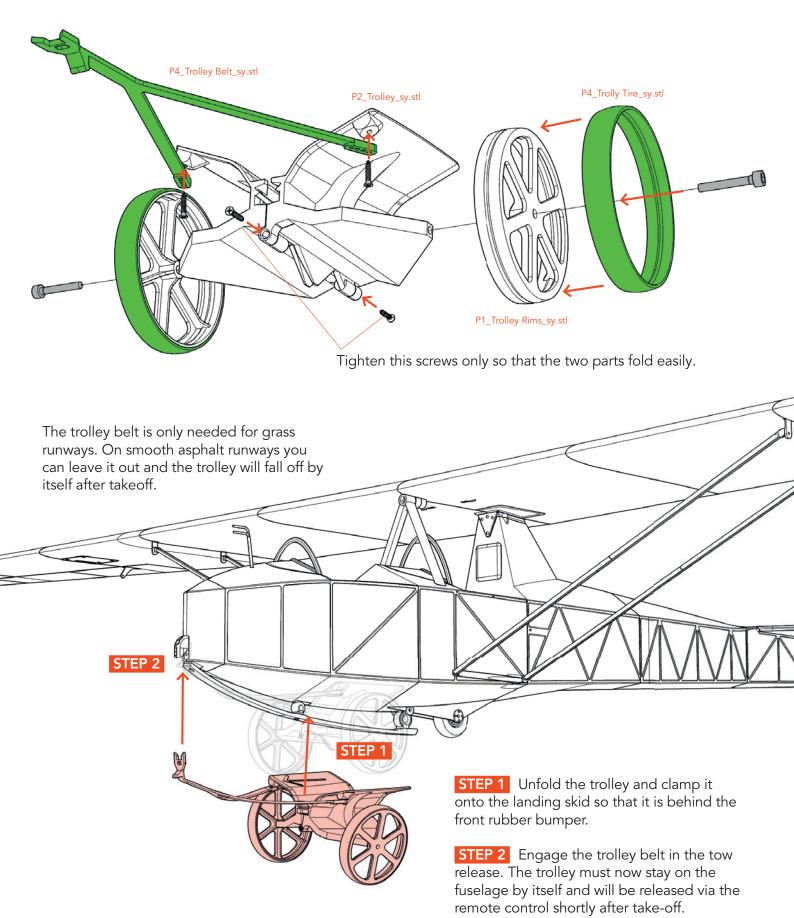
Battery

 $\Theta$ 

M

# Launch trolley for EDF ground launches

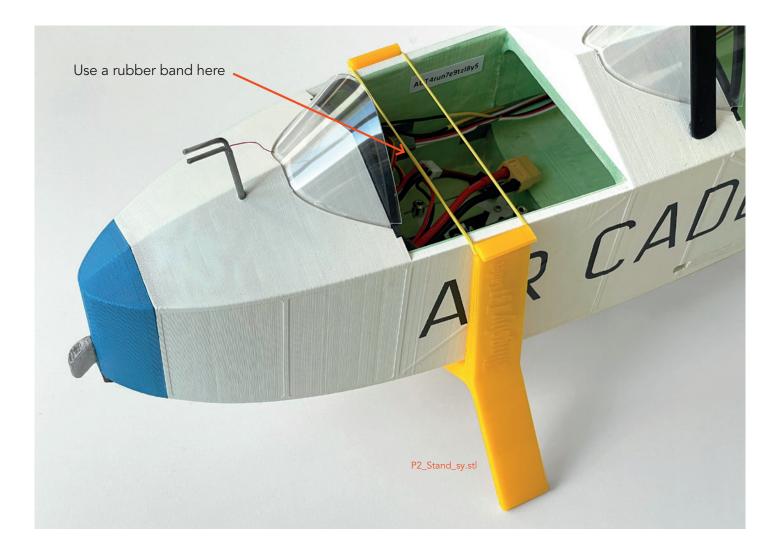
This launch trolley is **only** needed for the EDF version at ground launch – not for towing.





#### SLINGSBY T31 CADET

#### Practical stand for transportation



## Tips for flying

As with many vintage gliders, the Slingsby must be **clearly supported with the rudder** when changing turns. Controlled only with the aileron, the fuselage will push sideways and not lie nicely in the airflow. If your skills do not yet allow it, **you can also mix the rudder to the ailerons (Combi switch)**. It is better to control aileron and rudder independently, because in some cases you should control in the opposite direction.

The Slingsby T31 Cadet has no flaps but it is great for **sideslip as a braking aid.** To reduce altitude on approach, angle the wings with the aileron and correct with the rudder in the other direction to maintain the desired flight direction. Support a little with the elevator. This flight condition has the **same effect as the use of airbrakes.** Straighten the aircraft in time before touchdown and make sure it does not slow down too much. **You can practice this very easily at higher altitudes.** 



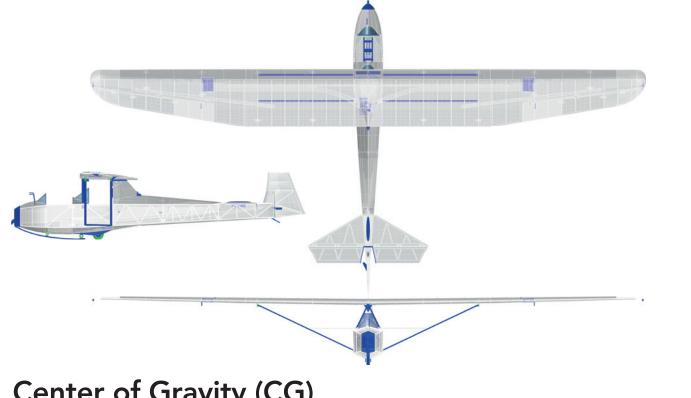
## SLINGSBY T31 CADET

### **Technical specifications**

WINGSPAN 2000 mm/78.8 inches

LENGTH 1058 mm/41.6 inches

FLIGHT WEIGHT 1260 grams (glider version)/1450 grams (EDF version)

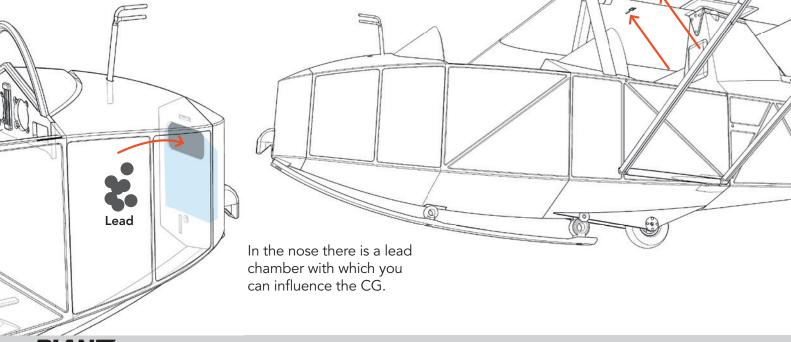


# Center of Gravity (CG)

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The aircraft must balance precisely on these points (64 mm behind the leading edge).

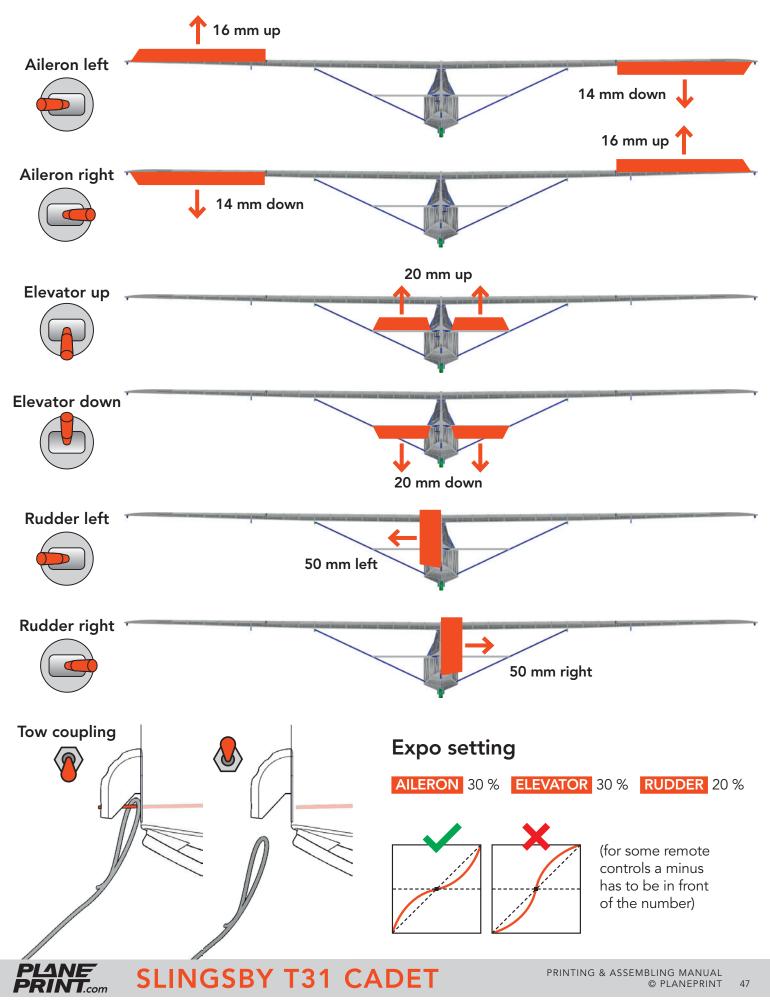
Do not forget to check if the wings are exactly in ballance in the roll axis. If one wing is heavier, correct this with a small weight on the wingtip.





## Settings for flying

When checking the control directions, look at the aircraft from behind.



#### 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!

