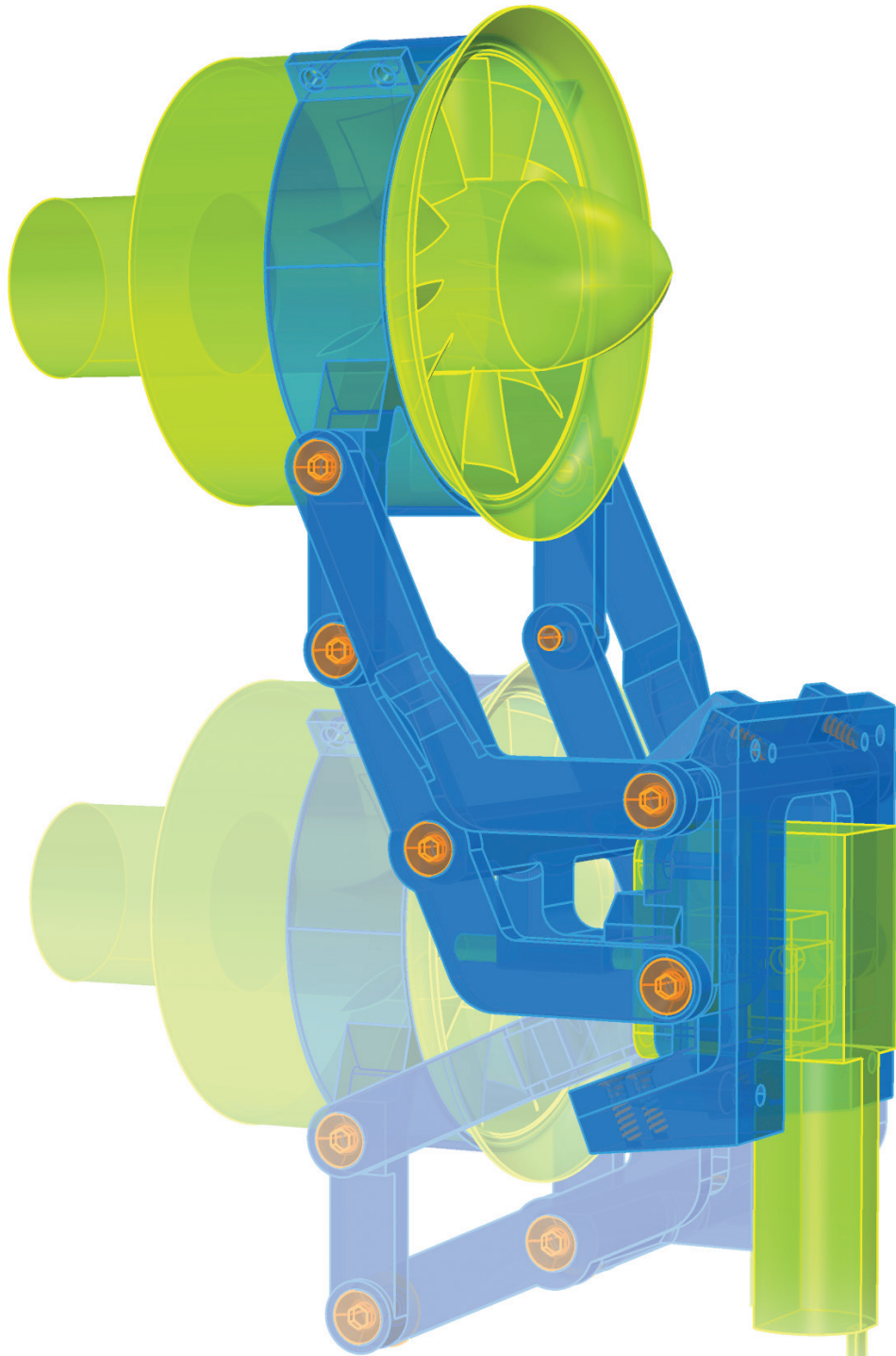


PLANE PRINT



PLANE **EDF** Retract **70mm** System

Suitable for gliders with a flying weight of up to 4000g



www.planeprint.com

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

© Copyright info:

The **design** of this aircraft is subject to the **copyright** of René Marschall
and **PLANEPRINT** and may **not** be used or modified for any other purpose.

Required accessoires – basic equipment

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

Materials

- some M2 tapping screws
(search for: M2 flat head tapping screw assortment)
- M3*12mm Metal screws Countersunk head **14 Pieces**
(search for: M3 metal screw assortment)



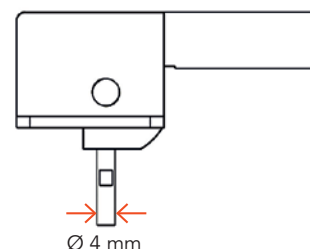
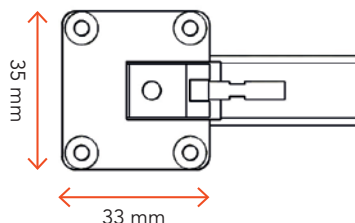
RC Components

EDF EDF 70 MM – (We use the FMS 4S)

BEC-CONTROLLER suitable for your EDF

BATTERY suitable for your EDF

RETRACTION GEAR 1x Servoless Retraction Gear **M (medium)**
(we used: 40g Landing Gear, AliExpress – for 3.500g Models)





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).

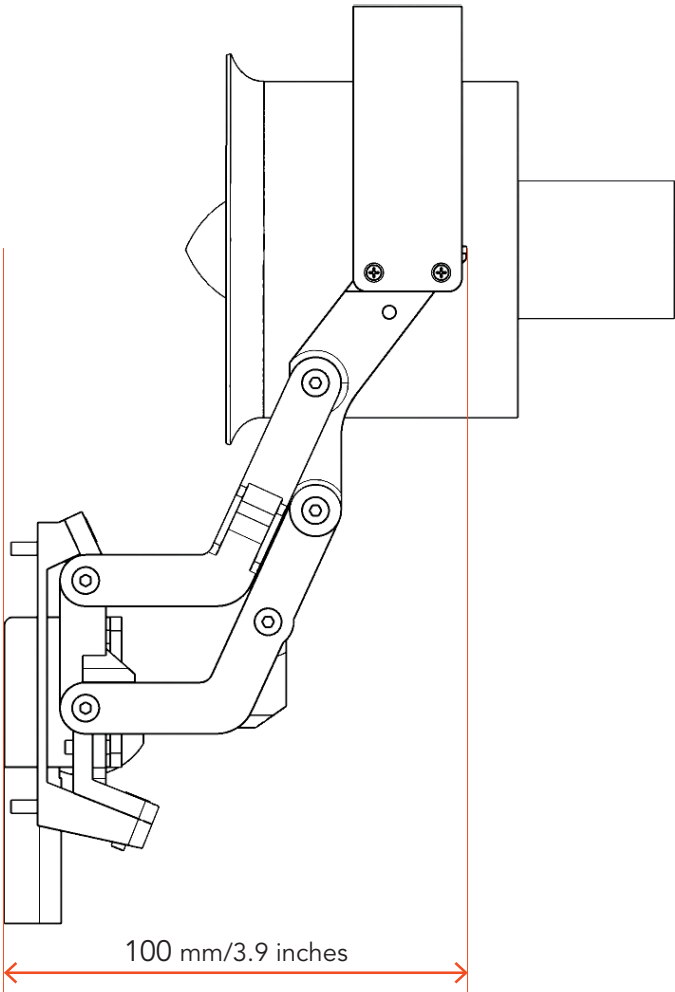
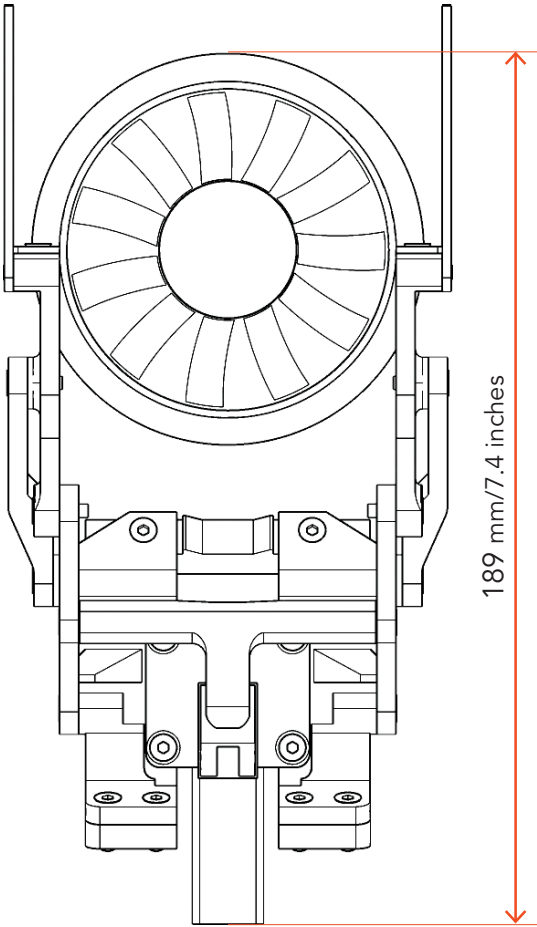
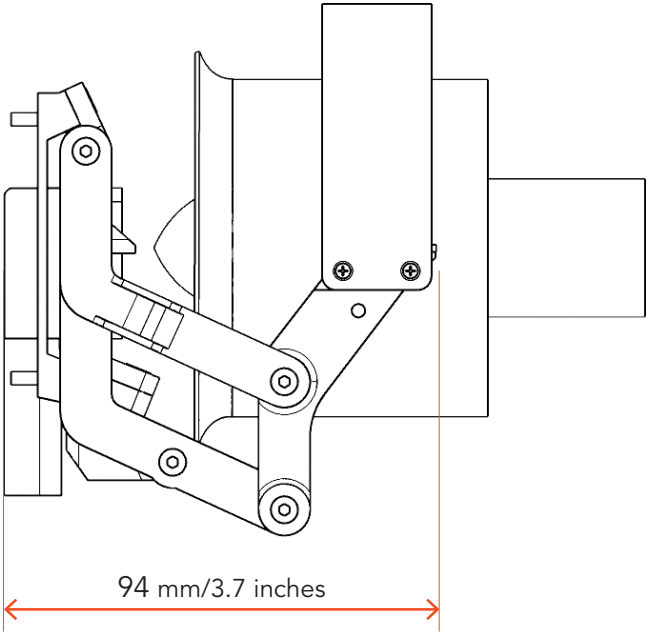
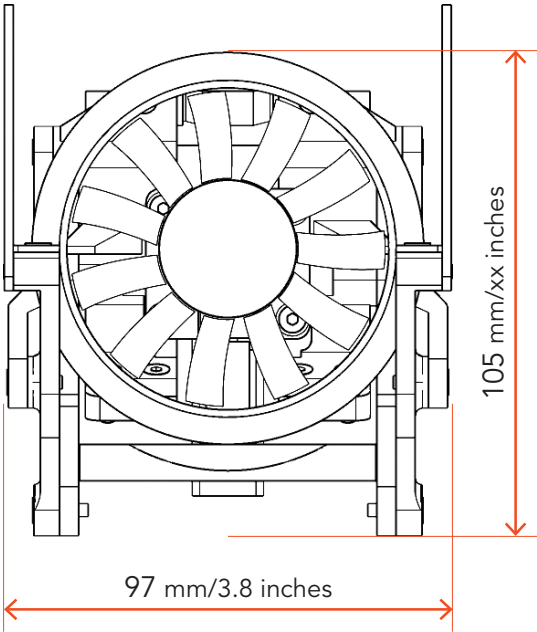
You can find the description at www.planeprint.com/print

For this model you need the following profiles:



NOTE Based on our practical tests, it's perfectly sufficient to print all parts using **Tough PLA (PLA+)** with the **P2 Hollowbody**. If you have **higher-quality filaments** available, you can always use them to print the retract system. If you need it to be particularly sturdy, print it with P1.

Dimensions



PROFILE P2_Hollowbody Tough PLA (PLA+)



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

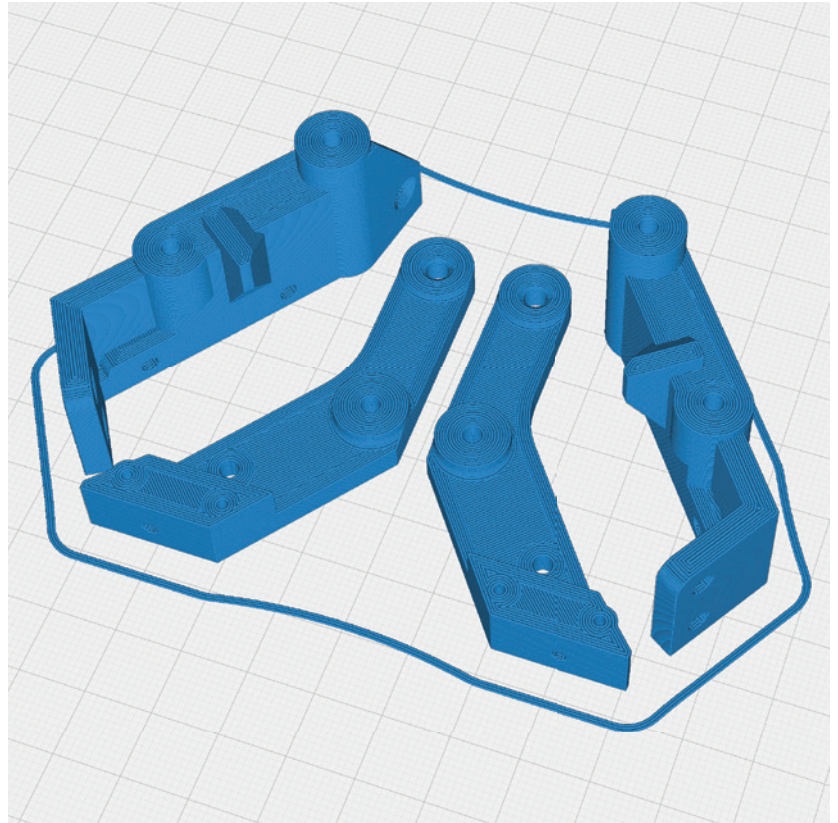
IMPORTANT The settings using P2 and Tough PLA (PLA+) are the lightest options we tested. However, you can also print all parts using **higher-quality materials**, with thicker wall thicknesses, or in **P1 mode** to achieve the **desired strength**.

EDF70 Parts 1.stl

MATERIAL PLA+ or a stronger material

ADDITIONAL SETTINGS

- Wall Line Count/Perimeters: 5
- Top and Bottom Layers: 5



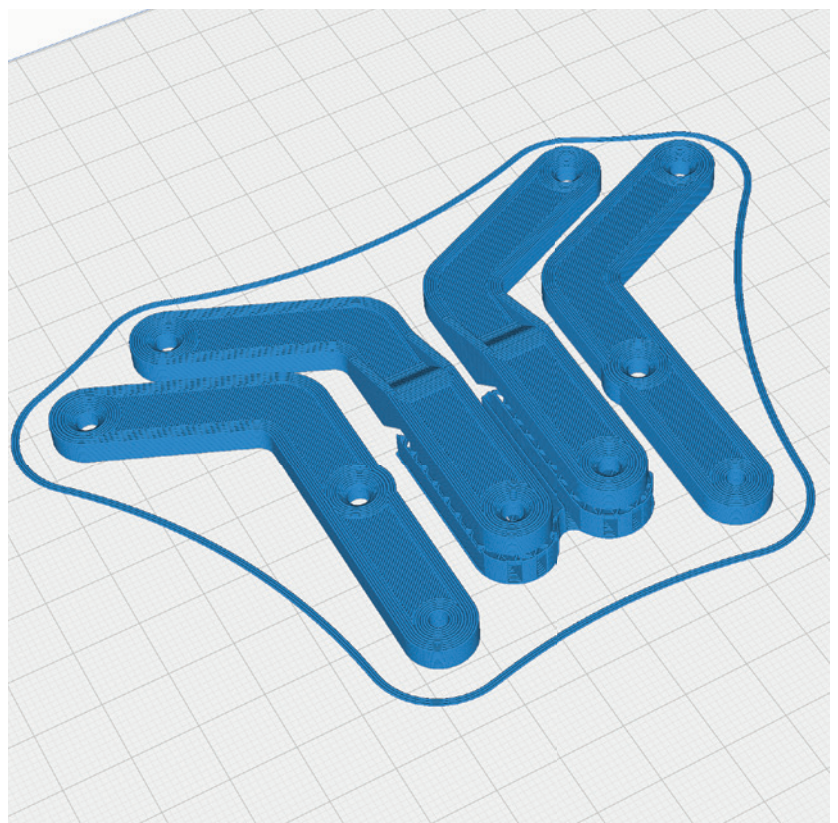
EDF70 Parts 2 short.stl or EDF70 Parts 2 long.stl

MATERIAL PLA+ or a stronger material

ADDITIONAL SETTINGS

- Wall Line Count/Perimeters: 5
- Top and Bottom Layers: 5

INFO With the **LONG** version arms, the EDF extends **7mm (0.27inches)** further **upward**. This puts more strain on the retract mechanism, so we recommend the **SHORT** version.



PROFILE P2_Hollowbody Tough PLA (PLA+)



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

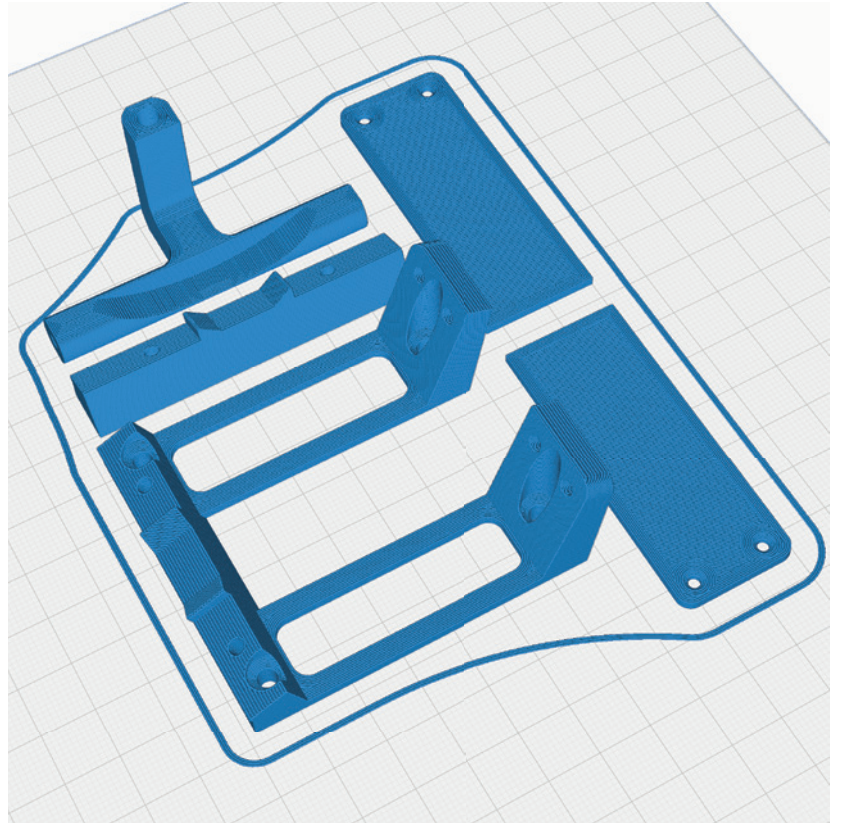
IMPORTANT The settings using P2 and Tough PLA (PLA+) are the lightest options we tested. However, you can also print all parts using **higher-quality materials**, with thicker wall thicknesses, or in **P1 mode** to achieve the **desired strength**.

EDF70 Parts 3.stl

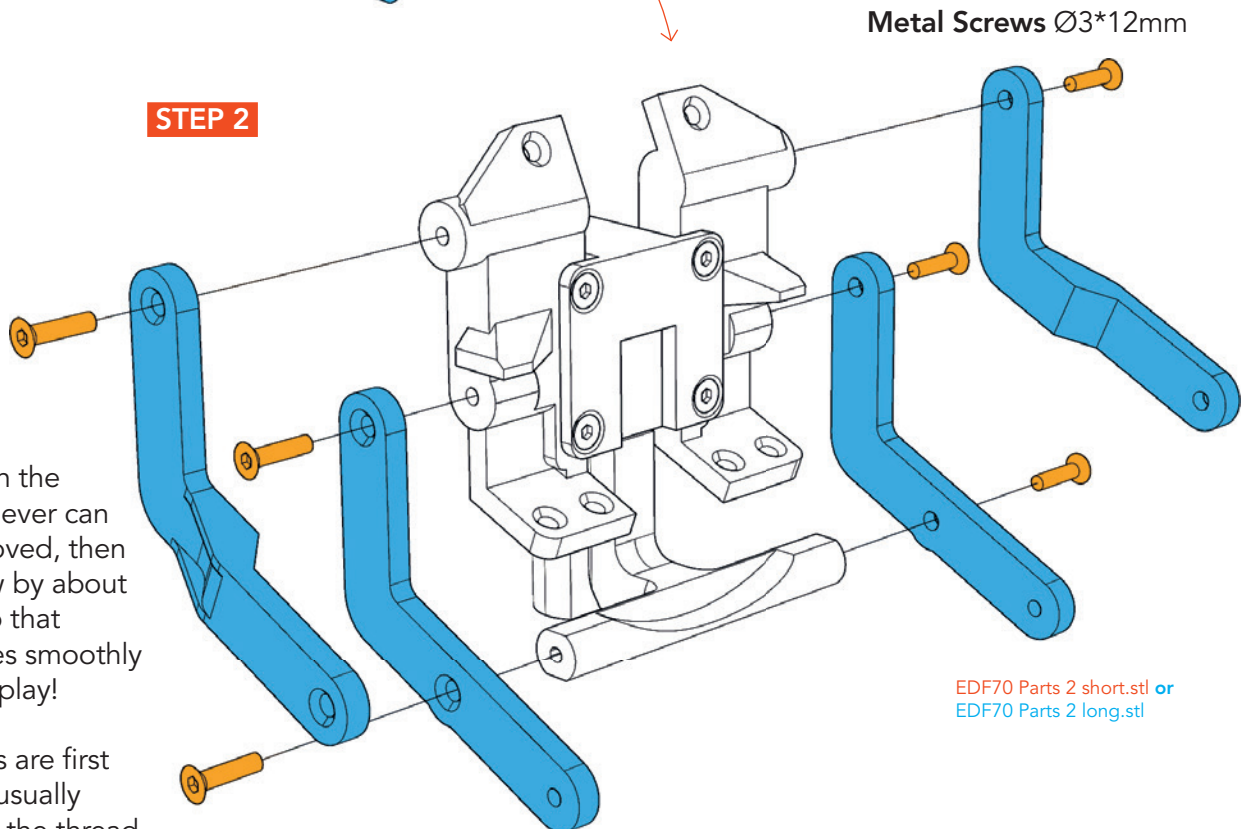
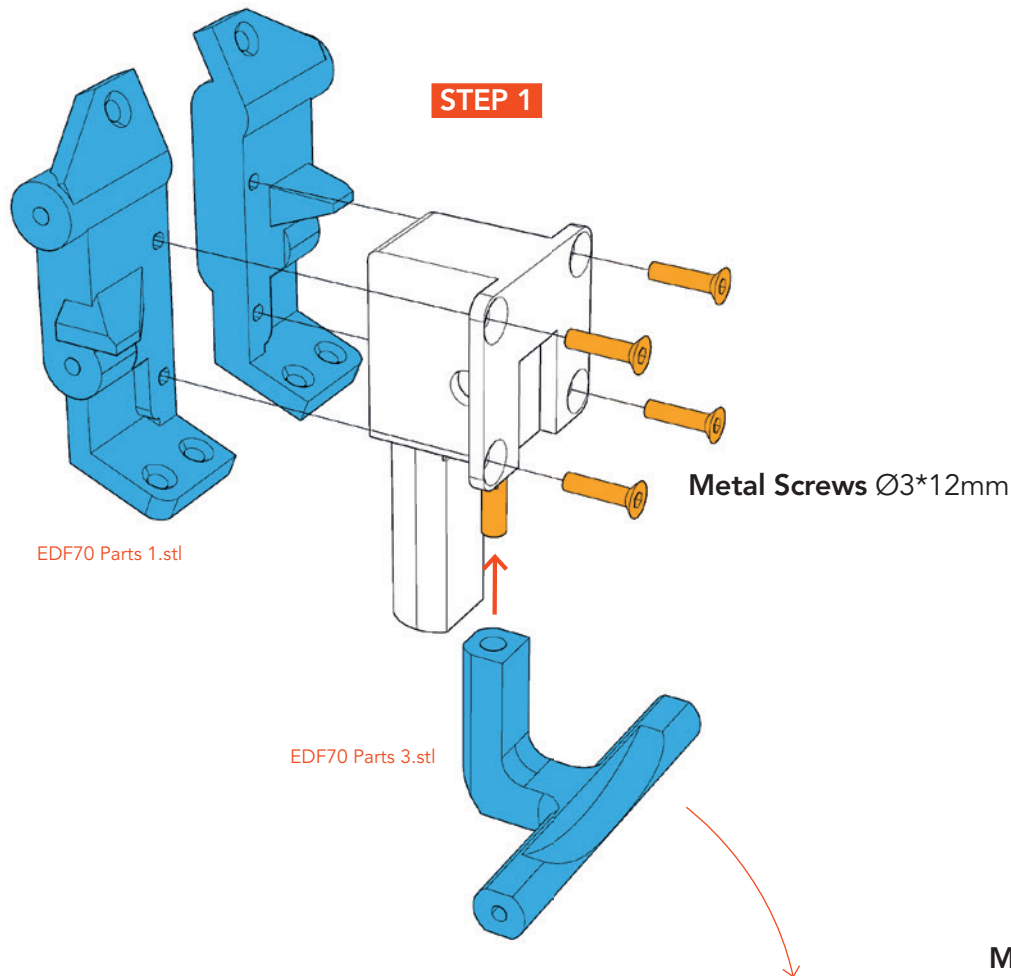
MATERIAL PLA+ or a stronger material

ADDITIONAL SETTINGS

- Wall Line Count/Perimeters: 5
- Top and Bottom Layers: 5



Assembly – Version EDF 70mm

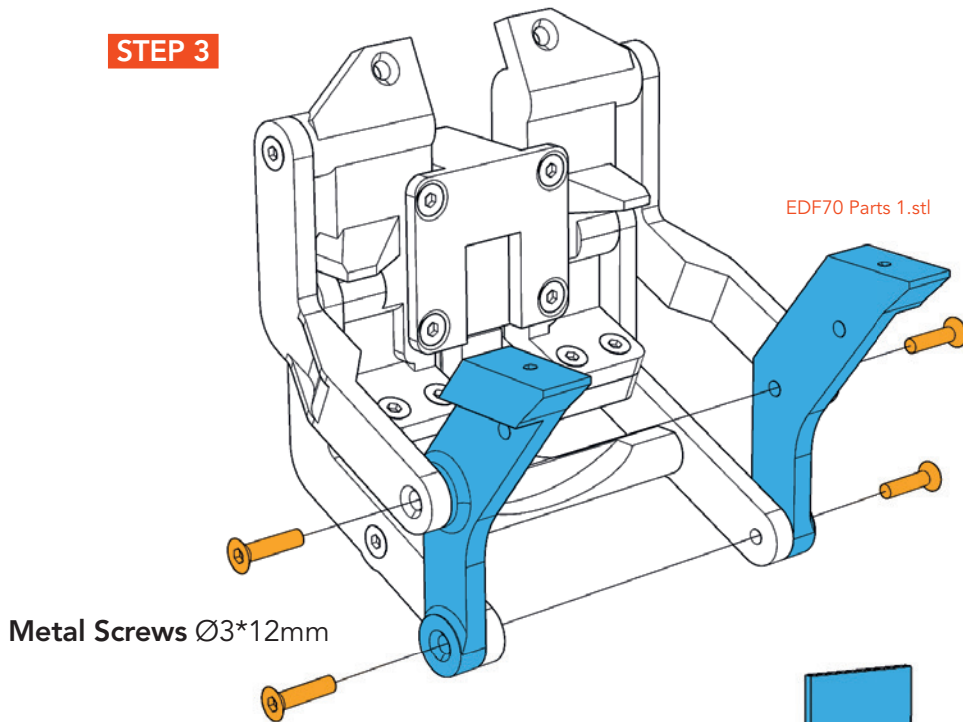


NOTE! Tighten the screws until the lever can no longer be moved, then loosen the screw by about a quarter turn so that everything moves smoothly but without any play!

When the screws are first tightened, they usually hold very well. If the thread becomes slightly loose, you should use threadlocker.

Assembly – Version EDF 70mm

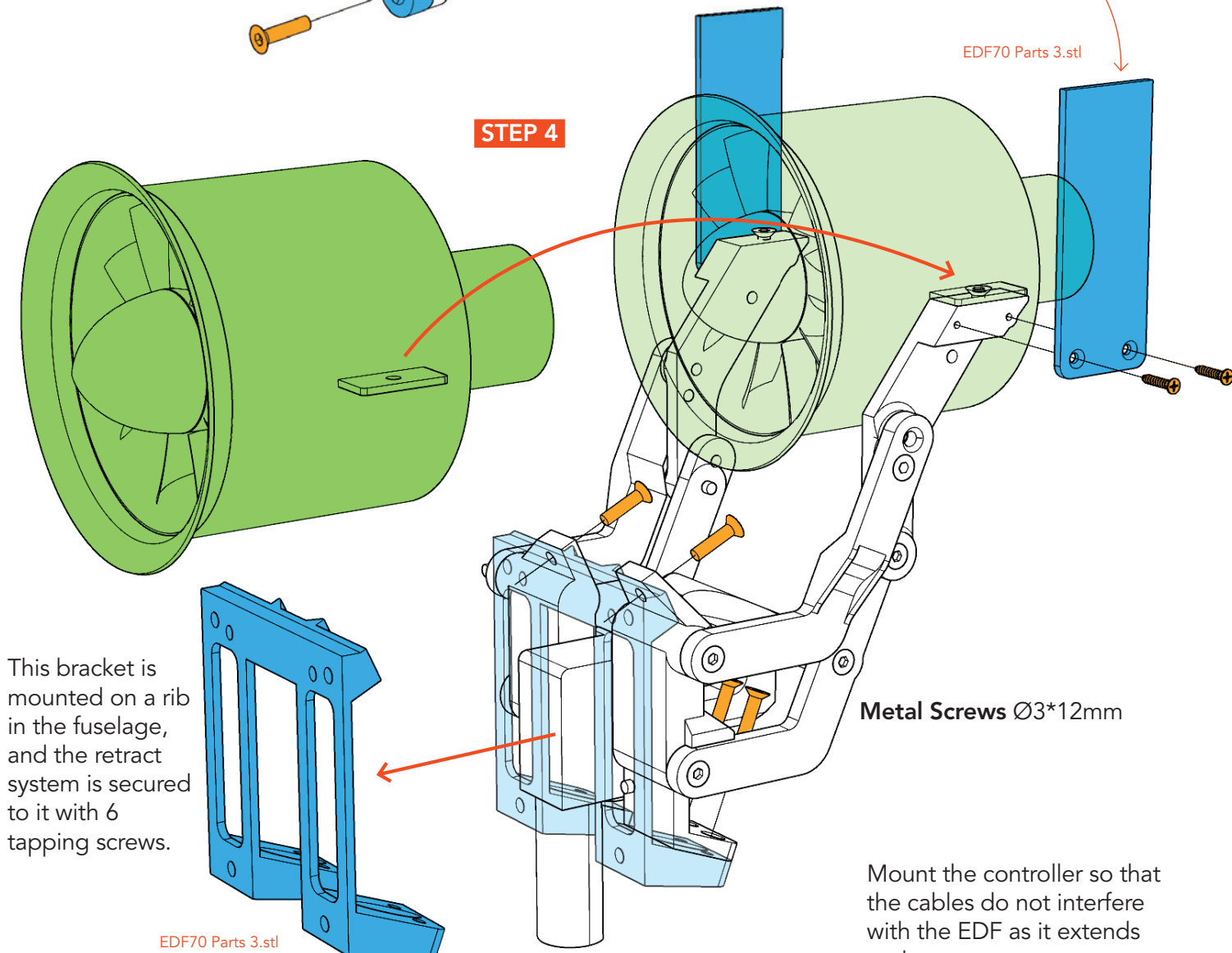
STEP 3



The cover, which is cut out of an existing fuselage, can be adjusted to fit the EDF using these tabs.

Trim it to fit the shape of the cover and glue it to the cover.

STEP 4



This bracket is mounted on a rib in the fuselage, and the retract system is secured to it with 6 tapping screws.

Metal Screws Ø3*12mm

Mount the controller so that the cables do not interfere with the EDF as it extends and retracts.

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!

PLANE PRINT