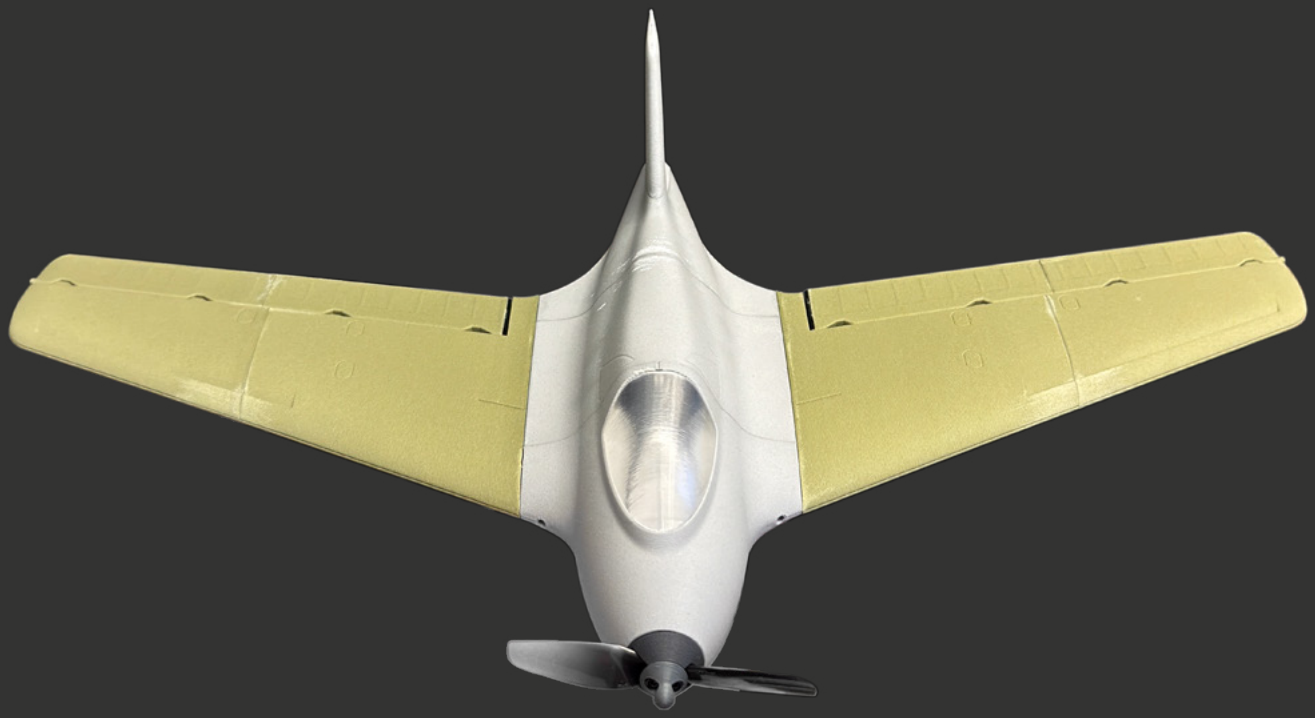
CACTUS CRAFT



Me-163B

user manual

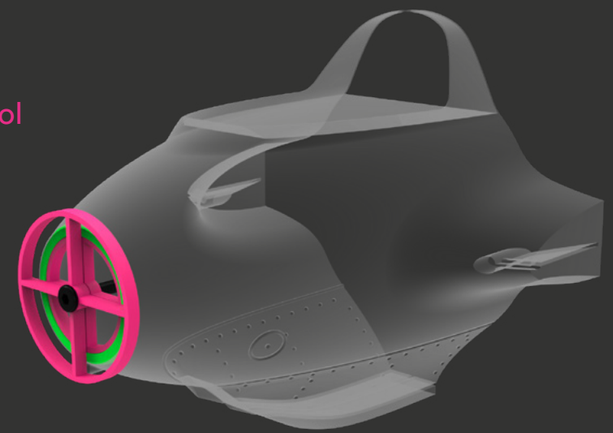
What you need:

Filament	PLA LW / PLA / PLA CF		
Hardware	M1.6×3mm	3x	link
	M1.6×4mm	5x	link
	M1.6×6mm	1x	link
	M2×4mm	2x	link
	M2×8mm	2x	link
	0.9mm hex screwdriver	1x	link
	1.5mm hex screwdriver	1x	link
	1mm steel rod		
	1mm carbon rod		
	Solder iron		
	CA glue		
	Activator		
Motor	RCinpower GTS V2 1202.5 11500Kv	1x	link
ESC	XSD7A 1-2s	1x	link
Servo	BMS-101HV	2x	link
Battery	GNB 300mAh 1S 60C HV	1x	link
Tx	TWiN X Lite or any other	1x	link
Rx	FrSky Archer Plus SR6 Mini with stabilisation	1x	link
Prop.	HQProp T3X2	1x	link

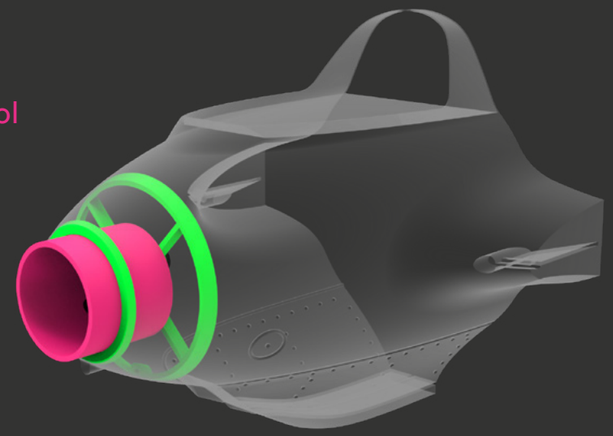
Me-163B assembly

- PLA
- PLA CF
- PLA LW

1.
Glue rib to the F_1, use two-piece tool with 1x M2 screw to achieve perfect fit.



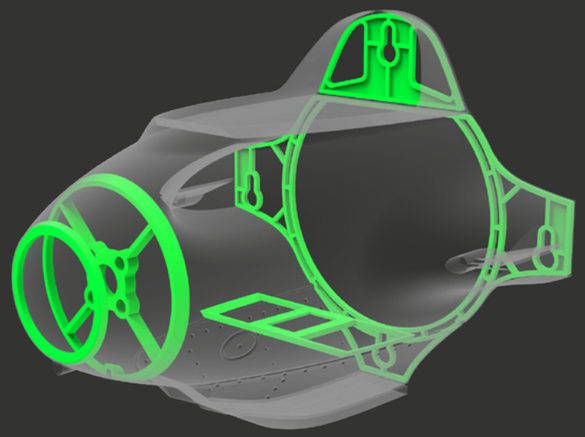
2.
Glue motor mount to the F_1, use tool with 4x M2 screws to achieve perfect fit.



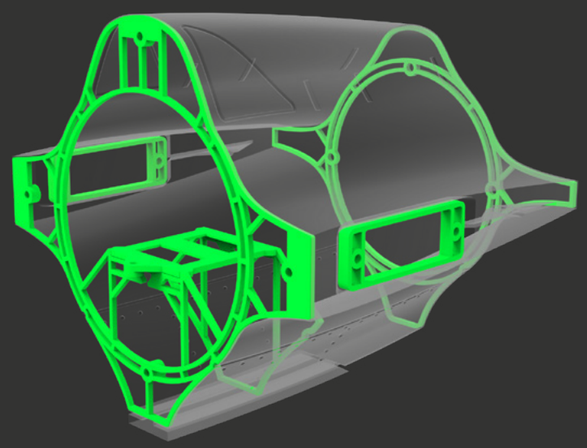
Me-163B assembly

PLA
PLA CF
PLA LW

3.
Glue ribs to the F_1.



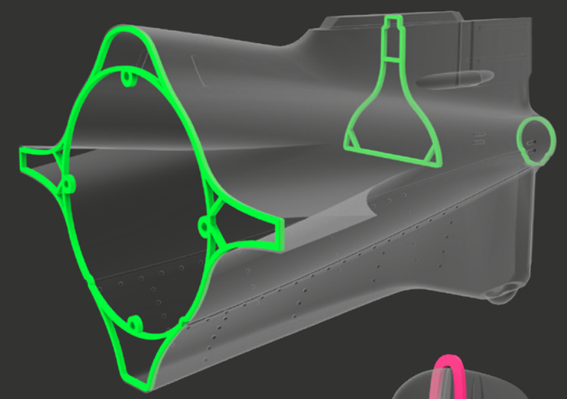
4.
Glue ribs to the F_2.



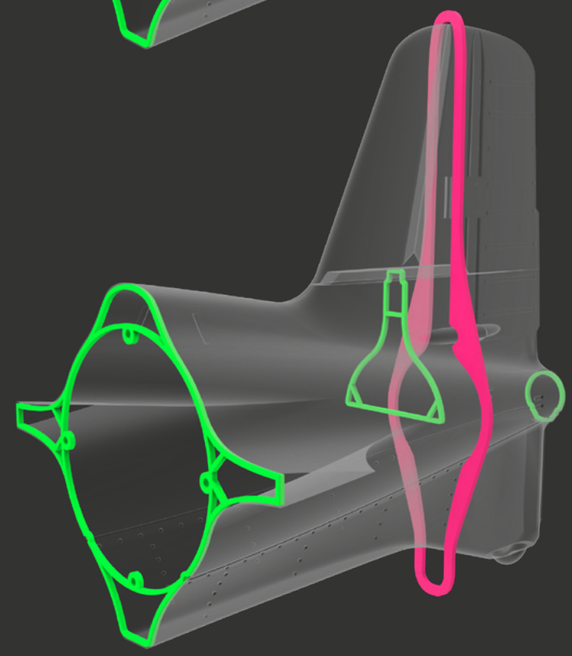
Me-163B assembly

PLA
PLA CF
PLA LW

5.
Glue ribs to the F_3.



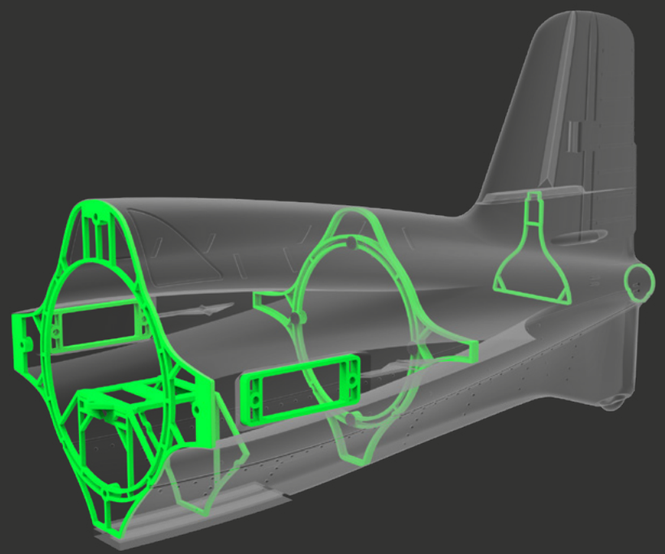
6.
Glue R_1 to the F_3, use tool to achieve perfect fit.



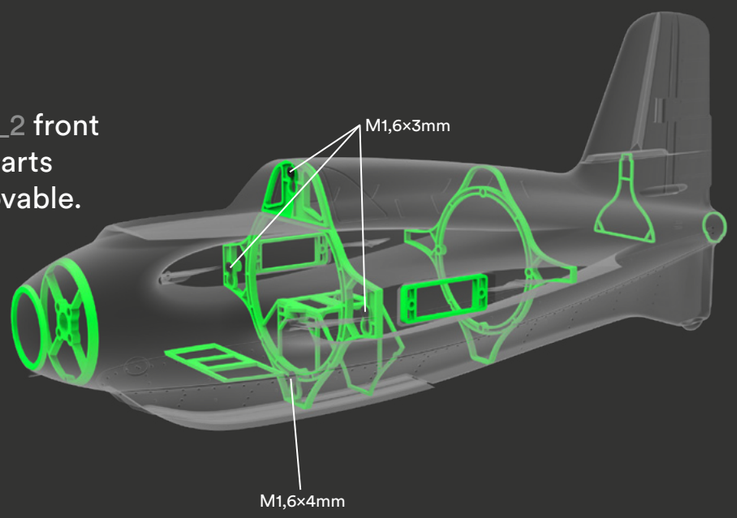
Me-163B assembly

PLA
PLA CF
PLA LW

7.
Glue F_2 and F_3 together. Temporarily use 4xM1,6 screws to achieve perfect fit.



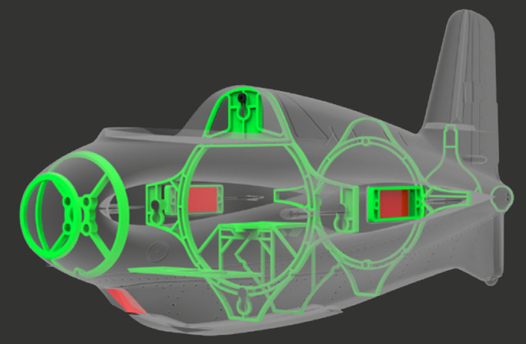
8.
Screw 4x M1,6 screws to the F_2 front rib. Do NOT glue F_1 and F_2 parts together, F_1 needs to be removable.



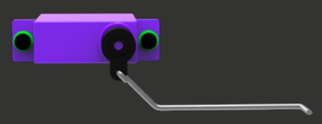
Me-163B assembly

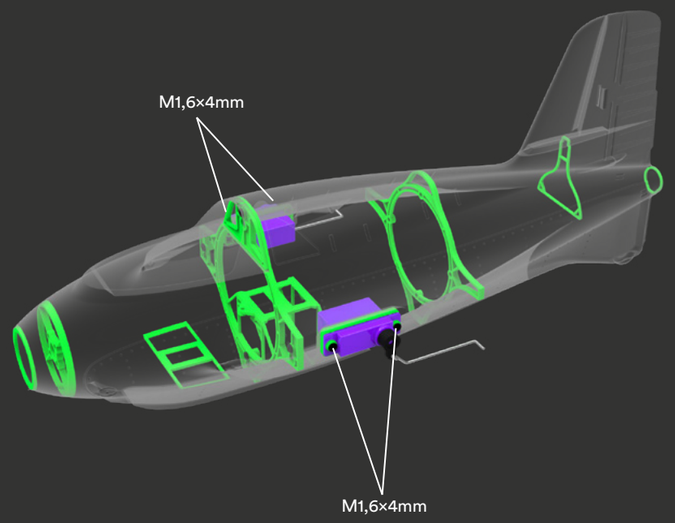
PLA
PLA CF
PLA LW

9.
Cut red parts off F_1 (cooling intake) and F_2 (servos).



10.
Install 2x BMS-101HV servos with 4x M1,6 screws. Use 1mm steel rod as pushrods with eye-to-eye length 33,5mm. Shape pushrod as shown below.

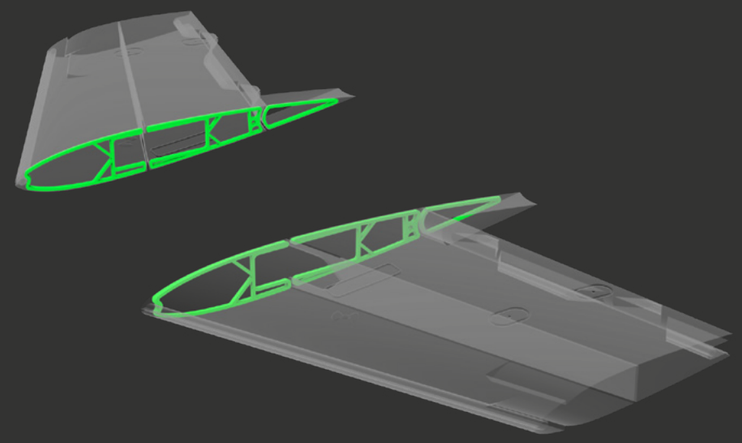




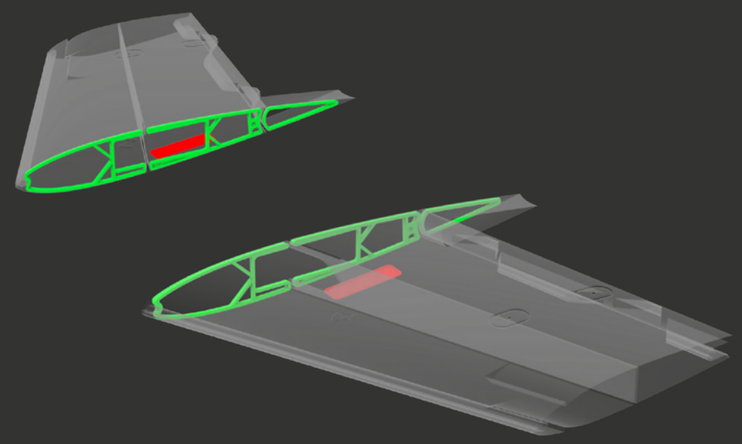
Me-163B assembly

PLA
PLA CF
PLA LW

11.
Glue ribs to the W_L_2 and W_R_2.



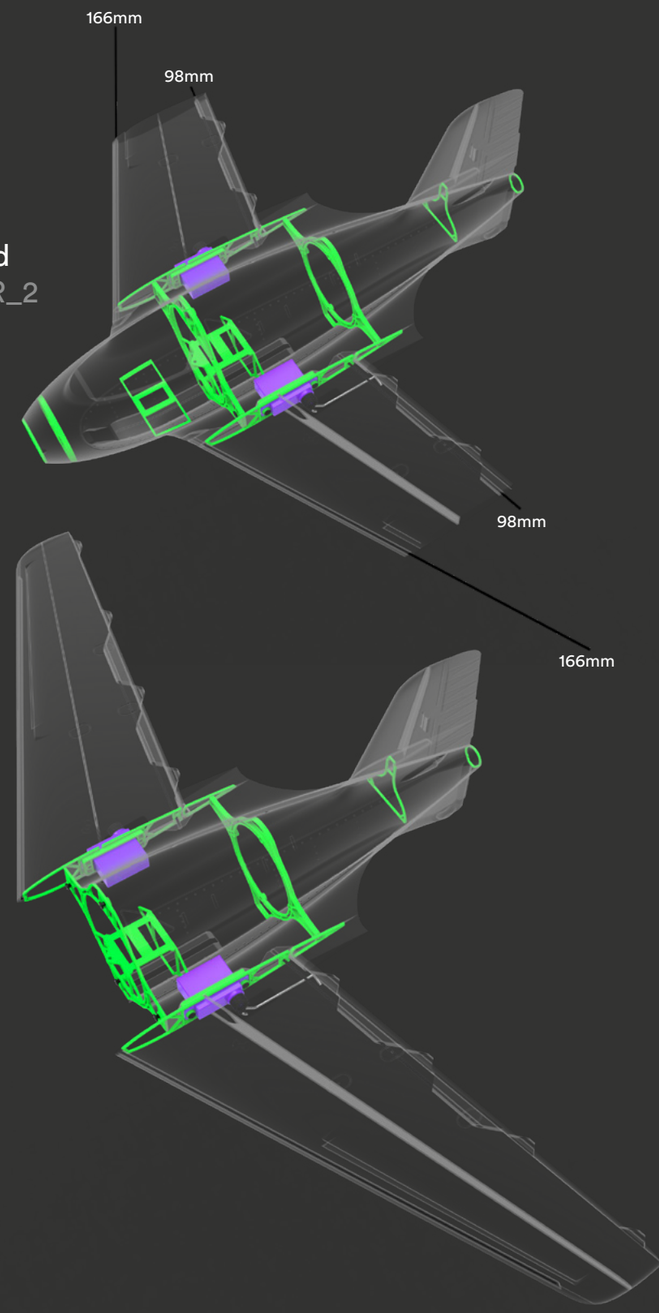
12.
Cut red parts off W_L_2 and W_R_2.



Me-163B assembly

PLA
PLA CF
PLA LW

13.
Glue W_L_2 and W_R_2 to F_2 and F_3. Do NOT glue W_L_2 and W_R_2 to F_1, F_1 needs to be removable. Use 1mm carbon rods to center wing with fuselage. Do NOT glue front rods (166mm) to F_1.

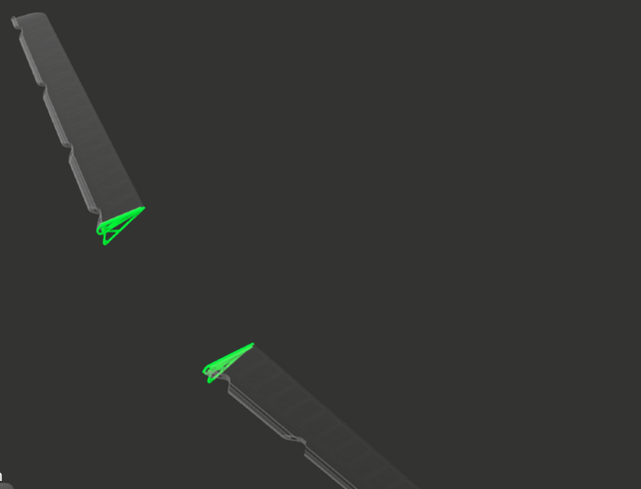


14.
Glue W_L_1 and W_R_1 to W_L_2 and W_R_2. Make sure that F_1 is still removable freerly.

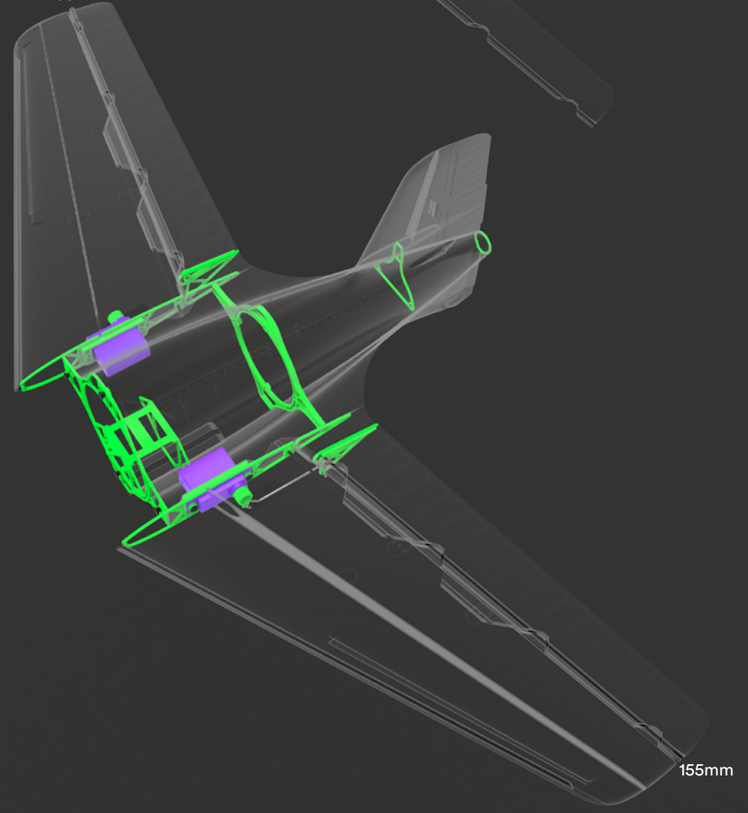
Me-163B assembly

PLA
PLA CF
PLA LW

15.
Glue ribs to the A_L_2 and A_R_2. Glue A_L_1 and A_R_1 to A_L_2 and A_R_2.



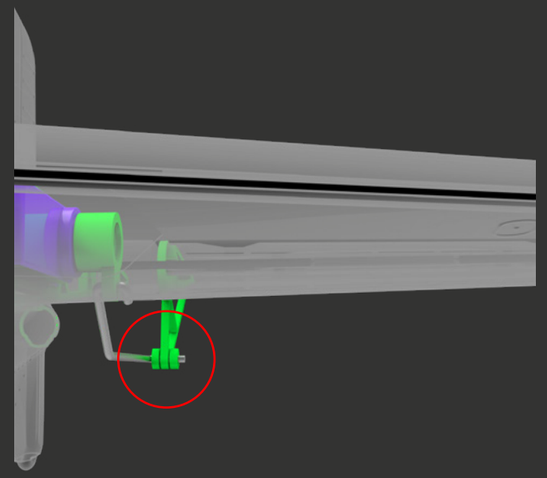
16.
Use 1mm carbon rods as elevons hinge. Glue these hinges to the end of the wing when everything is finished.



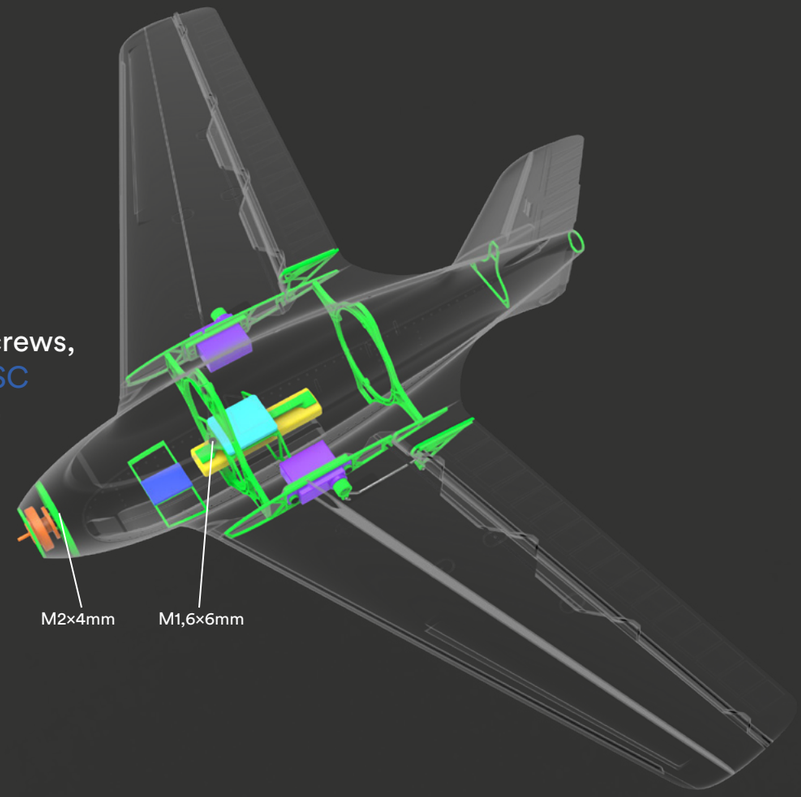
Me-163B assembly

PLA
PLA CF
PLA LW

17.
Secure pushrods on both sides with spacers.



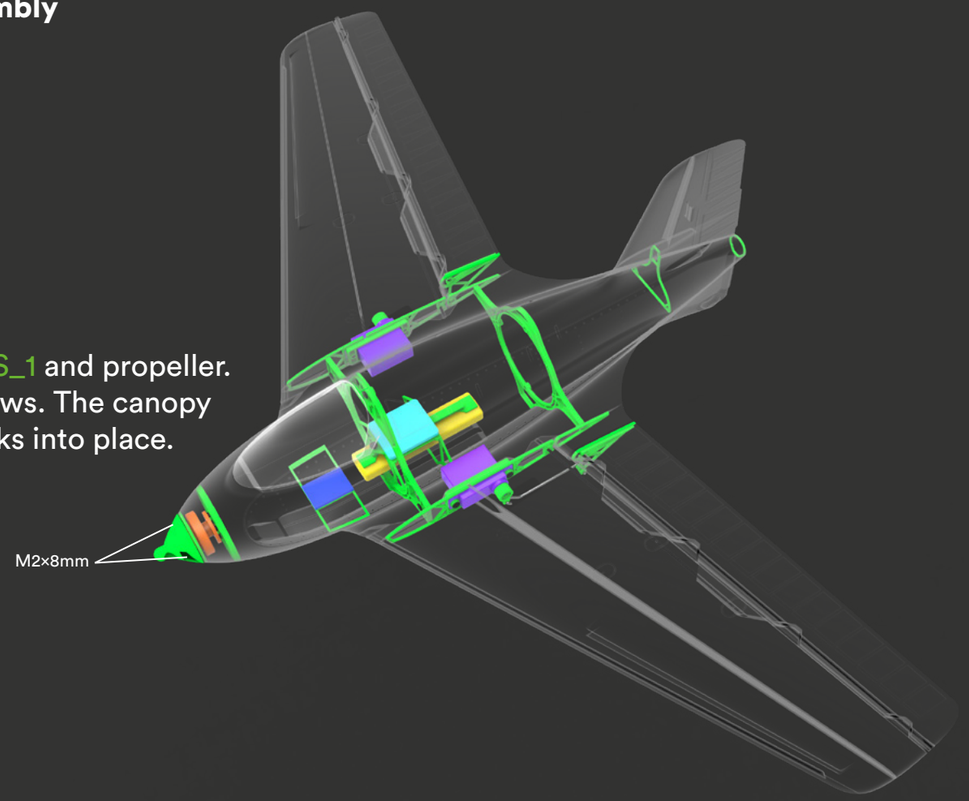
18.
Install motor with 2x M2 screws, use washer if necessary, ESC and RX. Use tape to secure battery holder to the battery.You can move battery to set right CG, then secure battery holder with 1x M1.6 screw.



Me-163B assembly

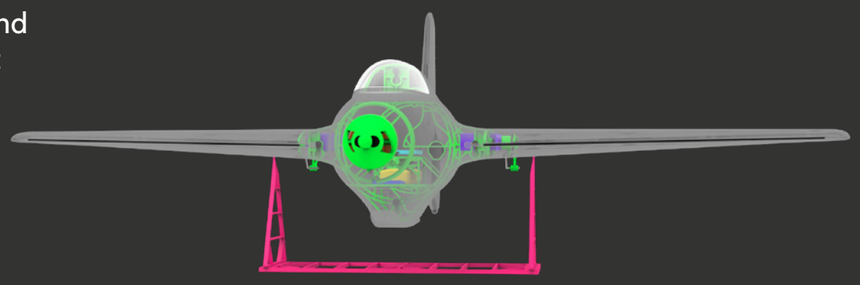
PLA
PLA CF
PLA LW

19.
Install spinner S_1 and propeller. Use 2x M2 screws. The canopy C_1 simply clicks into place.



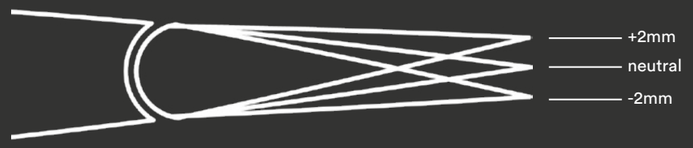
20.
When everything is done, set right CG. CG is marked on bottom of W_L_2 and W_R_2. Use tool to get best possible result.

CG symbol:

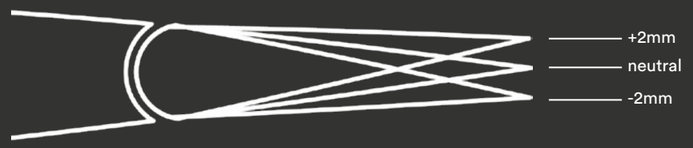


Me-163B setup

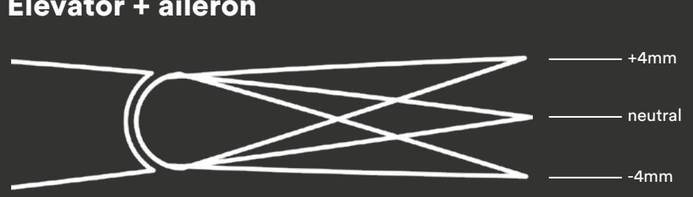
Elevator (20-35% expo)



Aileron (20-35% expo)



Elevator + aileron



Add throttle - elevator mix
0% throttle = neutral elevator
100% throttle = +0,6mm elevator

Before flight secure F_1, tighten the bottom screw through the cooling intake.

I recommend using a receiver with stabilization, which is very helpful at this scale during maiden flight, setting up aircraft and launches.

Now I can only wish you good luck and many successful landings!


X1-Carbon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