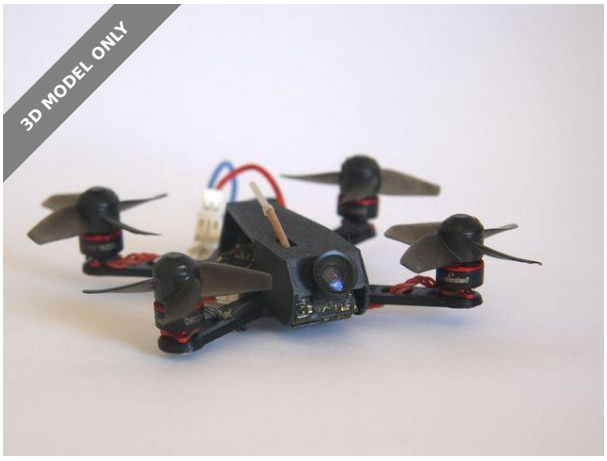


# Mobula7 Replacement Frame

b bigfoot183

VIEW IN BROWSER

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## Summary

UPDATE : I have removed files from the downloads for now, working on a new version with integrated battery holder and...

Hobby & Makers > RC & Robotics

Tags: drone droneracing fpv mobula mobula7 tinywhoop whoop

UPDATE : I have removed files from the downloads for now, working on a new version with integrated battery holder and a better system for attaching the FC. At this stage it requires very tight tolerances and a well tuned printer.(~0.1mm) so trying to get that a bit more forgiving so as not to waste anyone’s time/plastic printing parts that don’t fit together. Let me know in the comments if this sounds reasonably achievable. Thanks

Replacement frame for a Stock Mobula 7 drone. Motors obviously need to be screwed down but the rest just clips into place. Uses 7g PLA to print top plate and base plate, hoping to lighten that down a bit so it doesn’t effect performance. Haven't made a battery tray/bracket yet, for now I just used the 3D printed adapter that came with the mobula 7 and strapped it on the bottom with elastic bands. Probably should add a little zip tie to hold battery leads just in case they eject in a hard crash. If you find this print

useful please consider tipping the designer so I can justify spending Easter weekend on my laptop to my wife, lol.

-:Assembly Instructions:-

1. Install motors onto frame. Ensure motors spin freely and the clips underneath don't rub on arm.
2. Place 1 rubber grommet on front post and 1 on rear slot of flight controller
3. Slide FC into front grommet and slide rear grommet onto rear post.
4. Slide Cam/TX into top plate/canopy
5. Slot top plate clips into front of base plate.
6. Clip rear of top plate/canopy onto base plate. (Depending on you printer tolerances, you may need to file down the vertical supports on the base plate and the front hooks on the canopy. They were designed to be snug so it doesn’t fall apart)
7. Plug in motor leads.

EDIT:

I have made a version of the top plate with prop guards, nothing too fancy but should work for flying round the house.

I would love to get some feedback so if you print one or have any suggestions, please comment or post a make. I’m planning on seeing how much weight I can remove whilst still having enough rigidity so would be great(albeit sad) to hear how it holds up in a crash. ;)

Still a Work In Progress!

## Print Settings

**Printer Brand:**

Creality

**Printer:**

Ender 3

**Rafts:**

No

**Supports:**

No

**Resolution:**

0.2

**Infill:**

20%

**Filament:** creality PLA Black

**Notes:**

Printed with a 0.4mm nozzle at 0.2mm layer height. Printing both parts together took only 1.5hours ( plus a couple days of modelling) and at $0.14 worth of PLA it’s much better than waiting for that slow boat to arrive. ;)

Category: R/C Vehicles

## Model files

**topplate_betav1.stl**

Find source .stl files on Thingiverse.com

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