

## Yokomo YD2Z conversion chassis kit



# Introduction

The track conditions on the RC Drift Circuit have been very good recently. In such road conditions, a plastic chassis conversion kit like this is an alternative to a carbon chassis. This kit is very flexible and properly rigid, allowing for maximum tire grip.

We recommend PETG material. Highly recommend to use colerfabb HT .

3Dprint chassis conversion kit for Yokomo YD2-z or Yokomo YD2SX3

This kit is a 3Dprint conversion kit for Yokomo YD2z or YD2SX3.

If you use with YD2z basic kit , you need Yokomo`s Genuine optional parts.

- The light weight slide rack sets for YD-2Z (item No Y2-202SZ) (recommended)

If you use with YD2 SX3kit, you need Yokomo`s Genuine optional parts.

- YD2zTransmissioncase (Item No Y2-302Z), Motor mount (ItemNoY2-304Z), transmission case(ItemNoY2-302Z) etc.



# Parts list

PartsNo	PartsName	Quantity	layerheight	OuterPerimeter	infillrate	infilltype	support
1	Centerframe	1	0.15	4	15%	gyroid	No
2	Frontframe	1	0.15	4	15%	gyroid	No
3	Rearframe	1	0.15	4	15%	gyroid	No
4	Servoholder	1	0.15	4	15%	gyroid	No
5	Sideframe	2	0.15	4	15%	gyroid	No
6	Upperdeck	1	0.15	4	15%	gyroid	No
7	ESCBase	1	0.15	4	15%	gyroid	No
8	ESCplate	1	0.15	4	15%	gyroid	No
9	Servoclip	1	0.15	4	15%	gyroid	No
10	Batteryplatebase	1	0.15	4	15%	gyroid	No
11	batterytray	1	0.15	4	15%	gyroid	No
12	Battery fixknob	2	0.15	4	15%	gyroid	only build plate
13	M3*2mmSpacer	3	0.15	3	25%	gyroid	brim
14	M3*9mmSpacer	2	0.15	3	25%	gyroid	brim
15	Standoff 30mm	3	0.15	3	25%	gyroid	no
16	Standoff 35mm	4	0.15	3	25%	gyroid	no
17	M3 pressfitnut	4	0.15	3	25%	gyroid	no

Nozzle 0.4mm

Recommended filament

<https://colorfabb.com/filaments/materials/co-polyester-filaments/colorfabb-ht>

# Chassis build

you use 3Dprinted frame parts only, you can also ride without any problem.

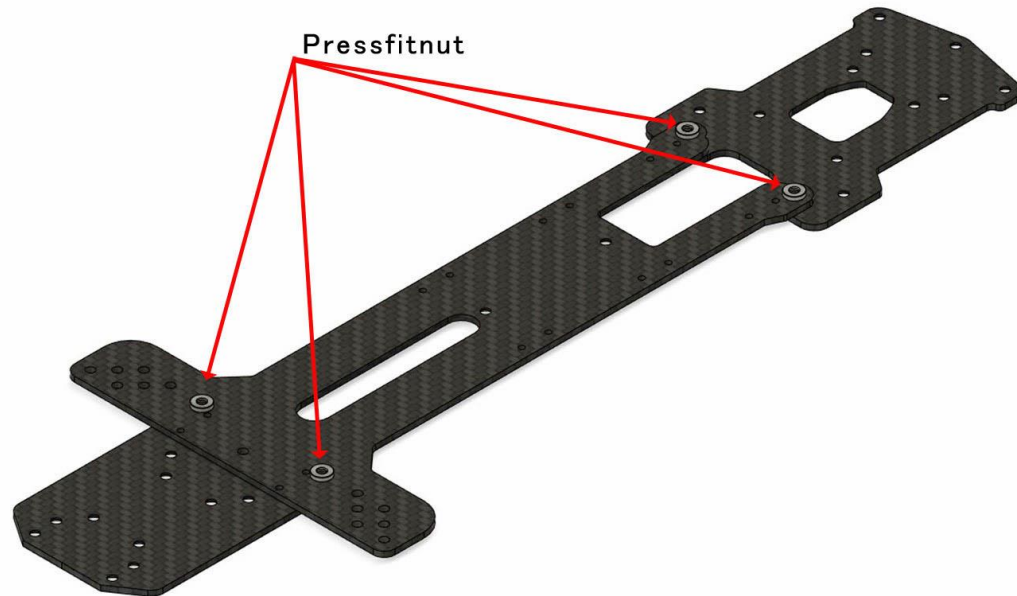


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If you can get M3pressfit nut, please use it .otherwise you should use M3pressfitnut.stl

**Caution : This manual`s image is shared with the carbon frame manual.**

# Chassis build



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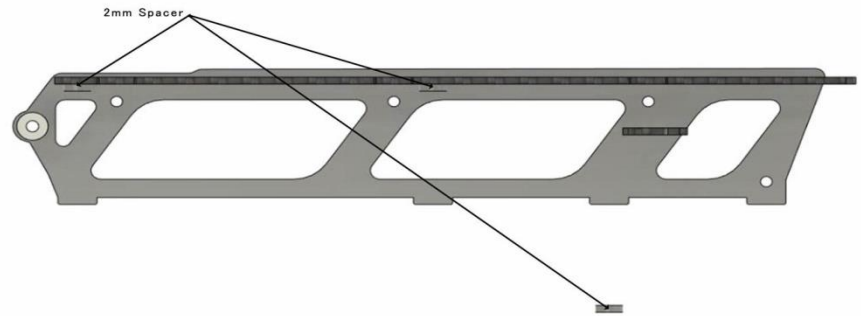
If you can get M3pressfit nut, please use it .otherwise you should use M3pressfitnut.stl

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# Chiassis build



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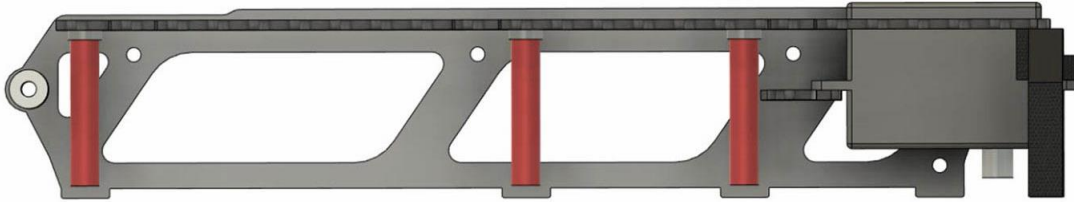
Place a 2 mm spacer between the upper deck and the 30 mm stand off.

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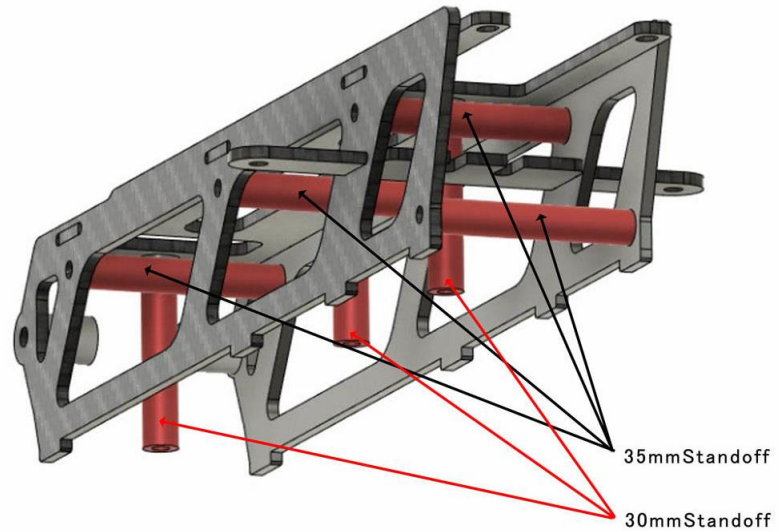




# Chassis build

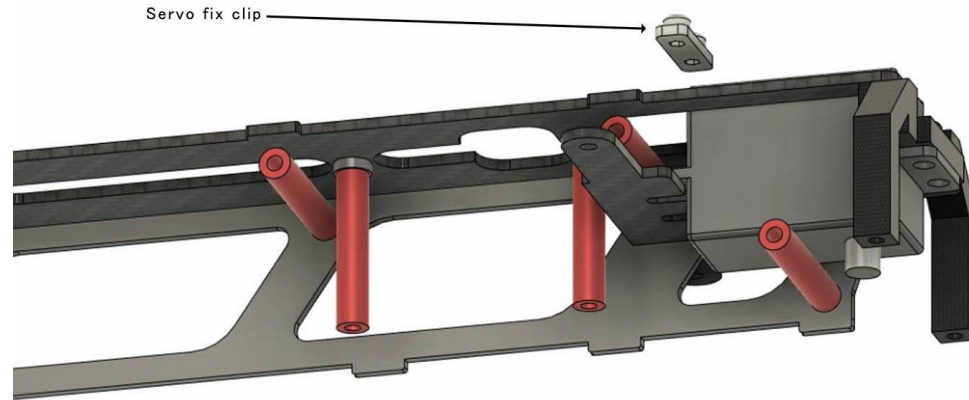


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# Chassis build

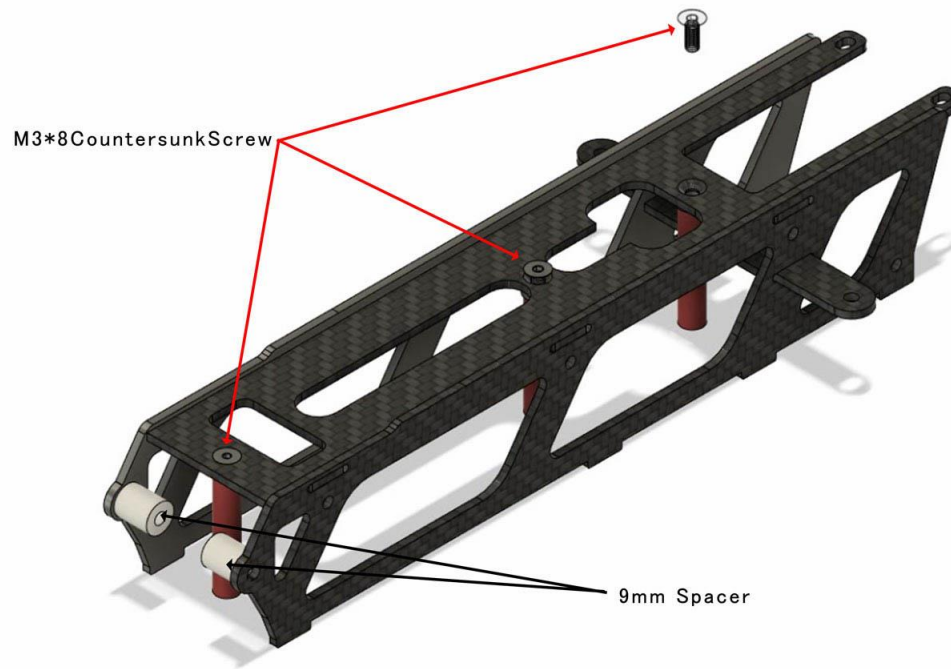


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-Install steering servo on upper deck in the same orientation as the original chassis. Install the receiver and gyro on the bottom deck with double sided tape ( you can install the receiver and gyro on the top deck, but it will limit your placement options of the battery tray).

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# Chassis build

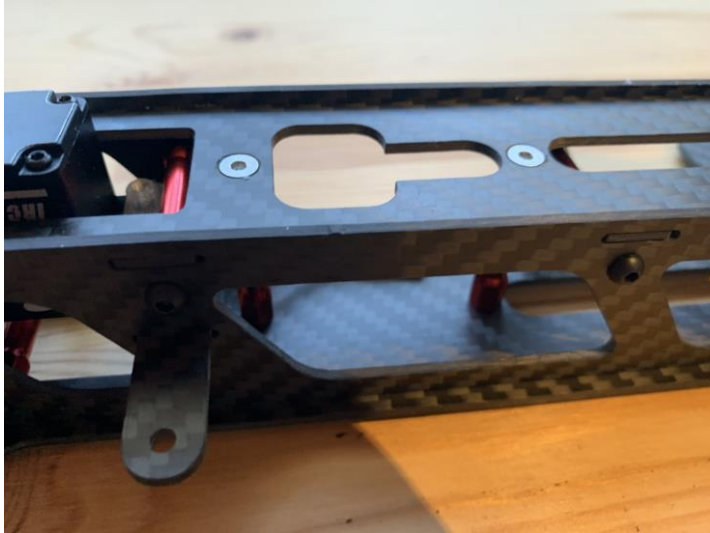


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-Connect assembled upper deck and side frame to the bottom deck with 6x 3\*8 flat head screws ( make sure your gyro and receiver are installed to bottom deck before).

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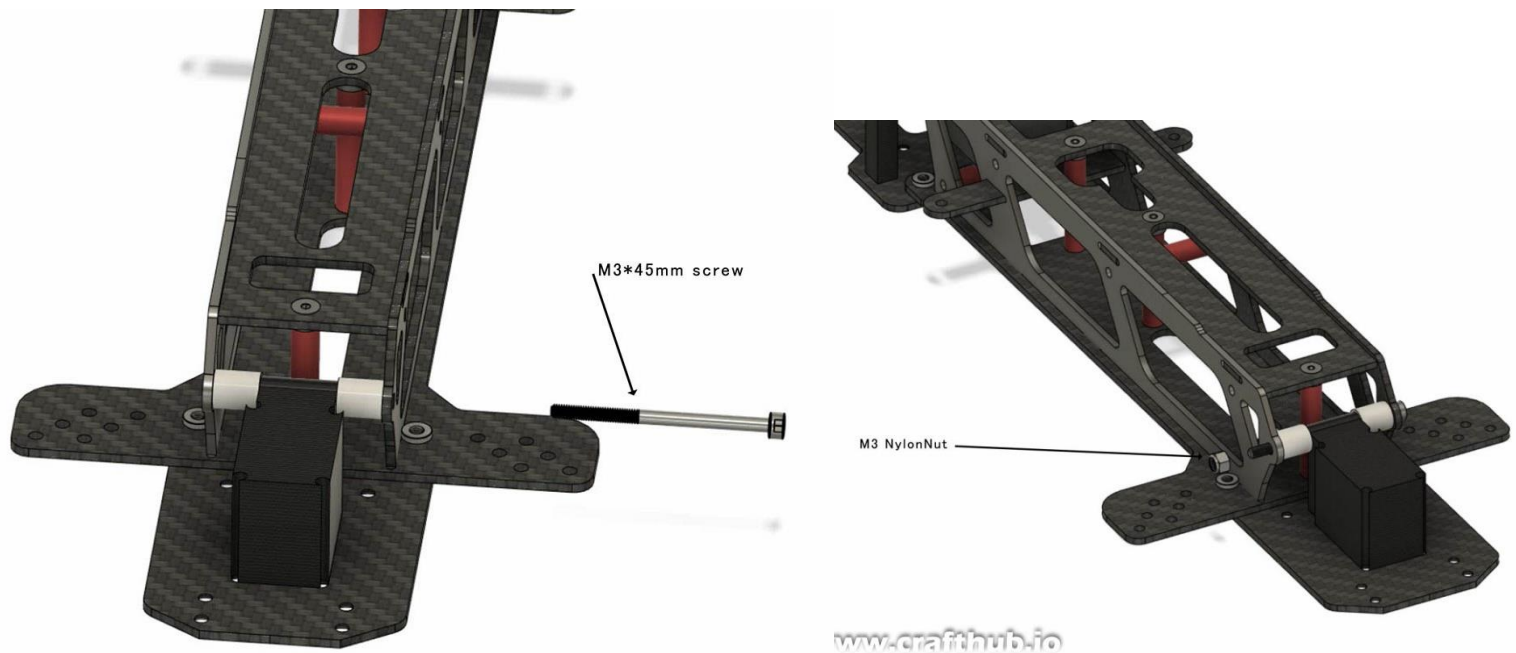
# Chassis build



Use the service hole to adjust a Gyro

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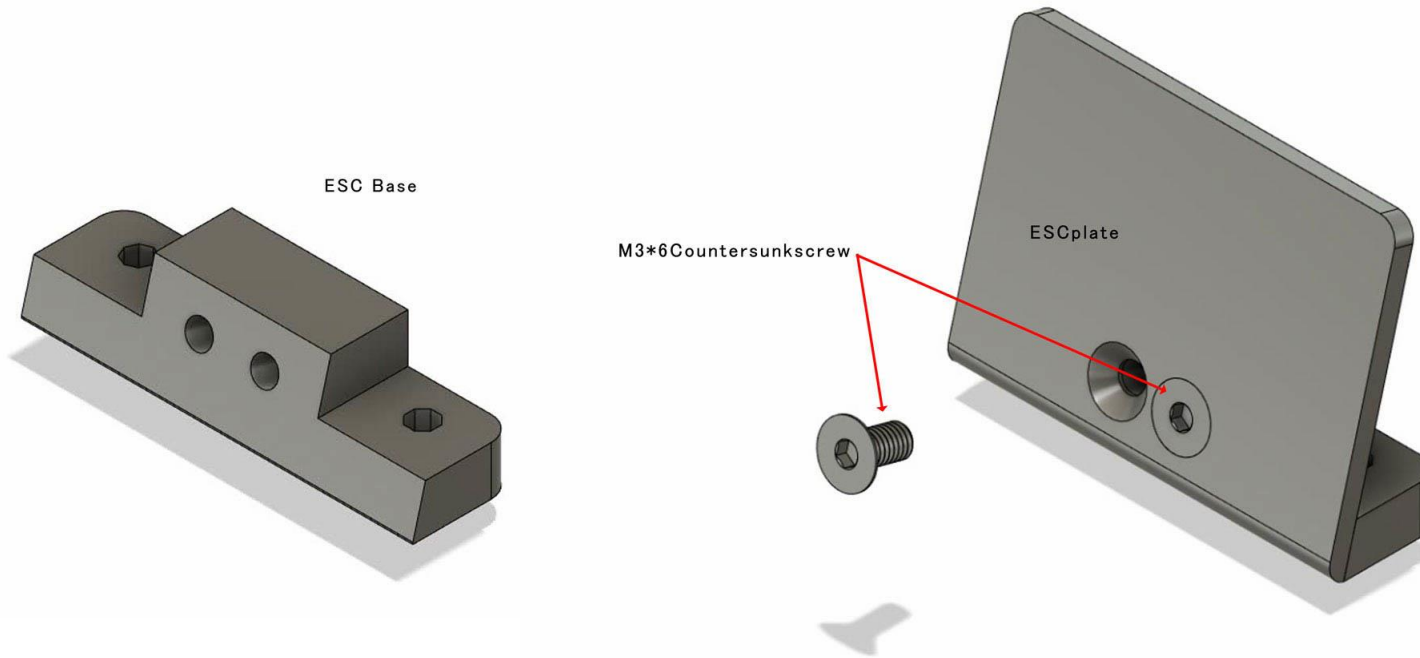
# Chassis build



After connecting the upper and bottom deck slightly loosen all the screws and check that the body doesn't have any distortion or misalignments, then tighten again.

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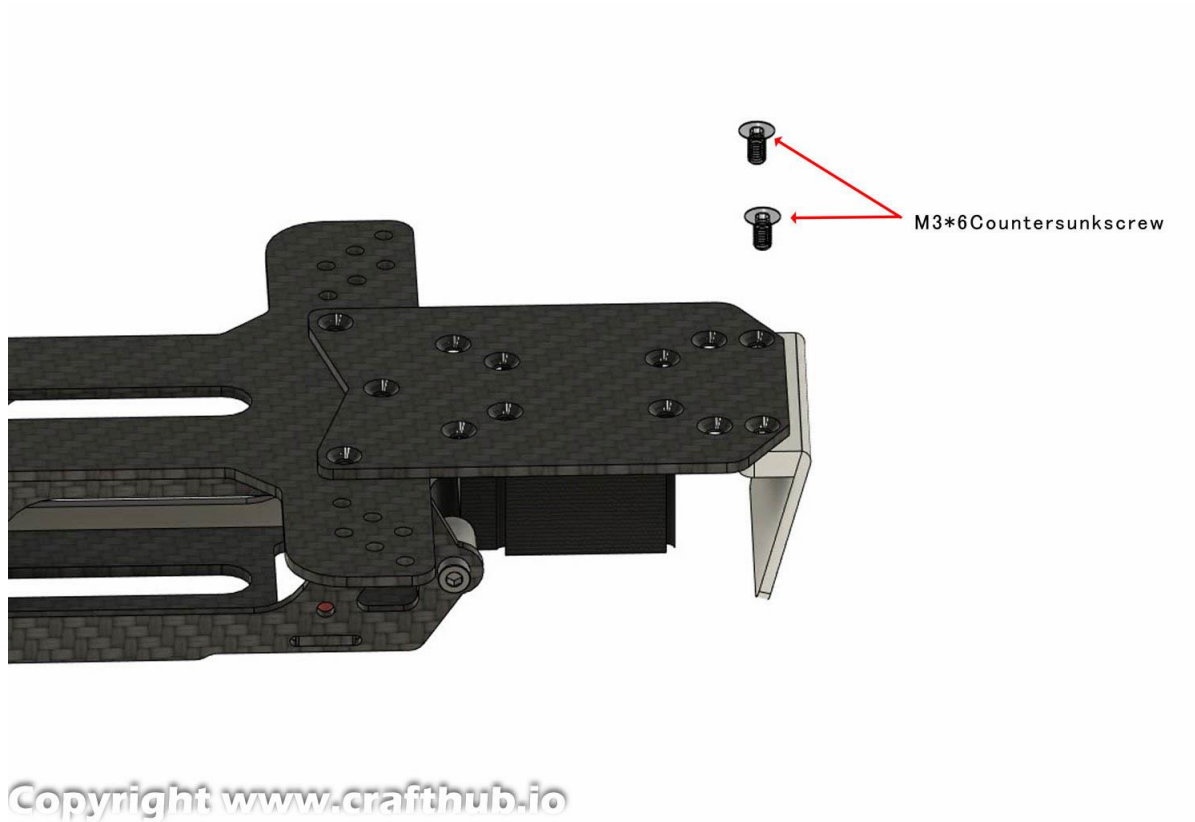
# Chassis build



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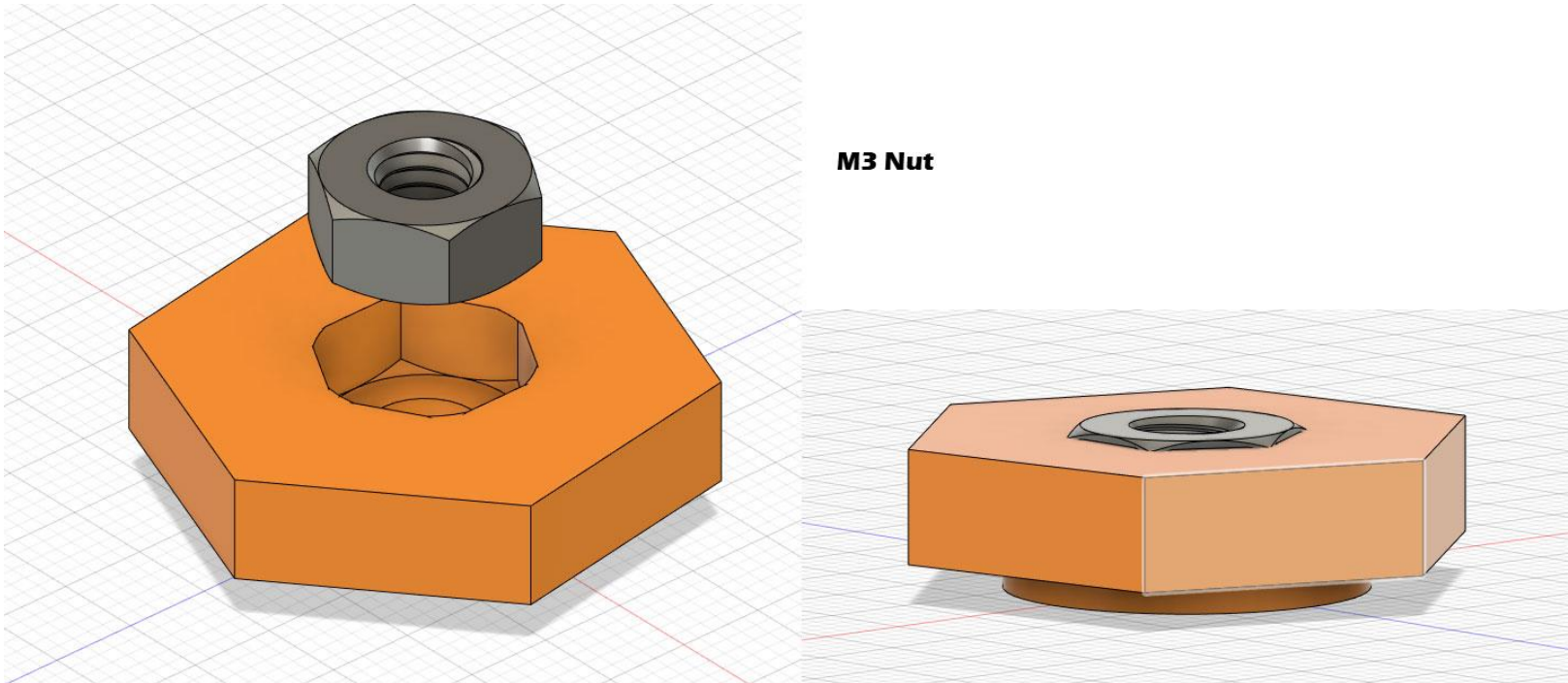
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# Chassis build



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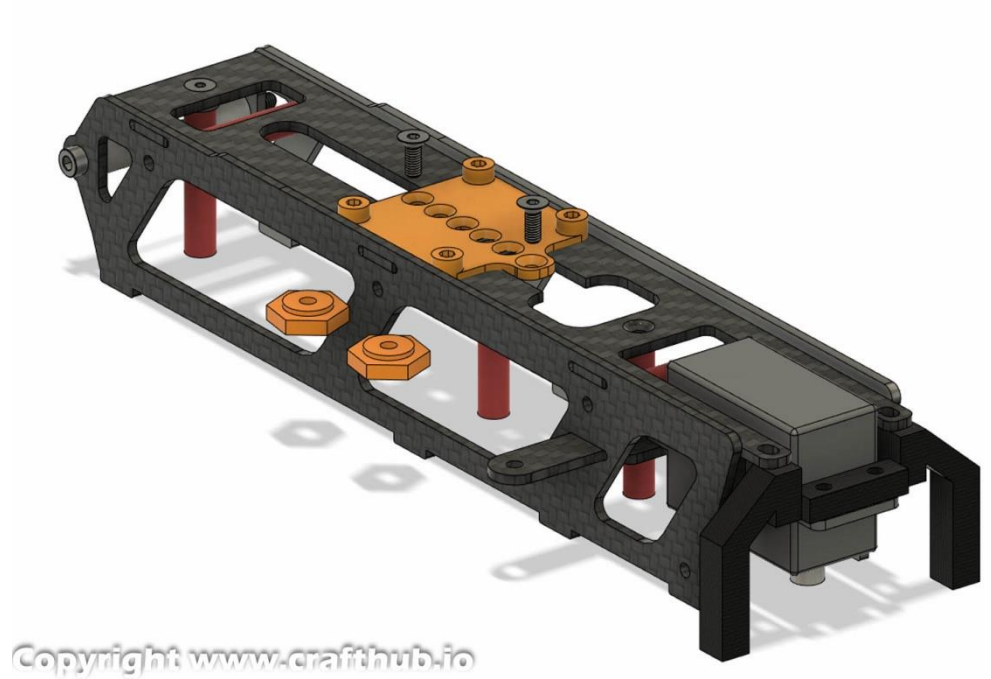
# Chassis build



Caution : This manual`s image is shared with the carbon frame manual.



# Chassis build



Adjust the battery mount place where you want

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# Slice sample

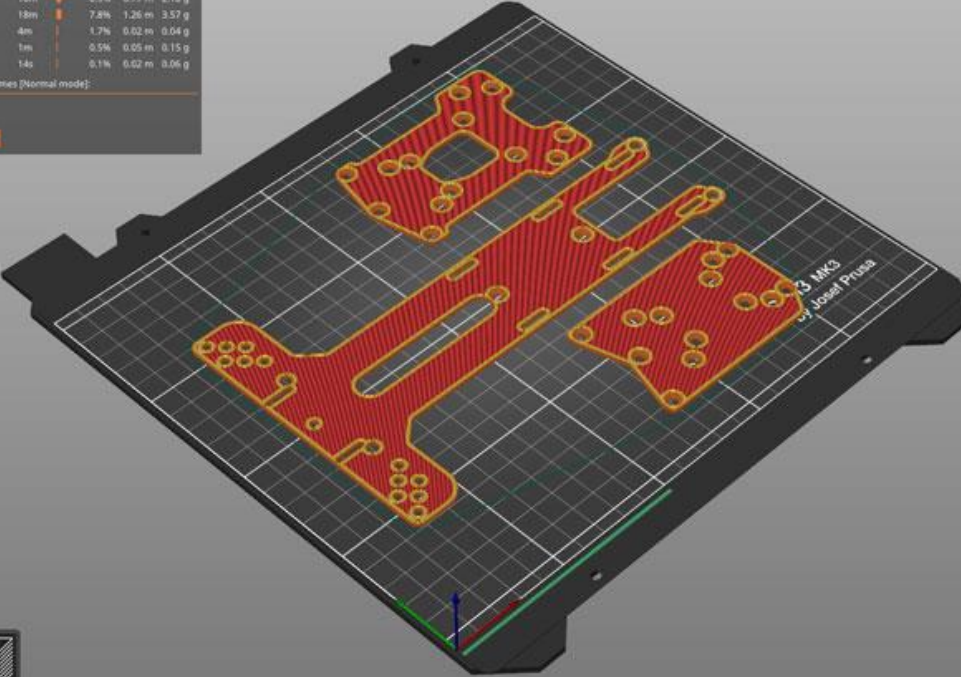
bottomframe - PrusaSlicer-2.4.2 based on Slic3r

File Edit Window View Configuration Help

Printer Print Settings Filament Settings Printer Settings

Feature type	Time	Percentage	Used filament
Perimeter	52m	22.6%	2.97 m 7.31 g
External perimeter	28m	12.3%	0.80 m 2.26 g
Internal infill	8m	3.6%	0.41 m 1.15 g
Solid infill	1h42m	44.3%	6.79 m 19.28 g
Top solid infill	16m	6.9%	0.77 m 2.18 g
Bridge infill	18m	7.8%	1.26 m 3.57 g
Gap fill	4m	1.7%	0.02 m 0.04 g
Skirt/brim	1m	0.5%	0.05 m 0.15 g
Custom	14s	0.1%	0.02 m 0.06 g

Estimated printing times (Normal mode):  
First layer: 48m  
Total: 3h50m  
[Show stealth mode](#)



207546

192746

Print settings:  
0.15mm QUALITY @MK3 - Copy (modified)  
Filament: ColorFabb HT  
Printer: Prusa\_omnicol\_one \* Original Prusa i3 MK3S-Oct  
Supports: None  
Infill: 15%  Brim

Name	Editing
centerframe_fixed	<input type="checkbox"/>
Chassis_Rear v6	<input type="checkbox"/>
Chassis_front v14	<input type="checkbox"/>

Sliced Info  
Used Filament (g) (including spool): 96.00 (272.00)  
Used Filament (m): 12.69  
Used Filament (mm<sup>3</sup>): 30511.96  
Cost: 2.36  
Estimated printing time:  
- normal mode: 3h50m  
- stealth mode: 3h52m

Export G-code

# Slice sample

The screenshot displays the PrusaSlicer interface with a sliced model of a Prusa i3 MK3 top deck. The model is shown in a perspective view on a grid, with the text "ORIGINAL PRUSA i3 MK3 by Josef Prusa" visible on the bottom part of the model. The software window title is "Untitled - PrusaSlicer-2.4.2 based on Slic3r".

**Feature type statistics:**

Feature type	Time	Percentage	Used filament
Perimeter	1h3m	29.3%	3.54 m 10.05 g
External perimeter	37m	17.3%	1.18 m 3.34 g
Internal infill	7m	3.2%	0.31 m 0.87 g
Solid infill	1h18m	36.4%	4.25 m 12.06 g
Top solid infill	12m	5.5%	0.50 m 1.43 g
Bridge infill	12m	5.6%	0.79 m 2.23 g
Gap fill	5m	2.2%	0.02 m 0.05 g
Skirt/Brim	1m	0.5%	0.06 m 0.16 g
Custom	13s	0.1%	0.02 m 0.06 g

**Estimated printing times (Normal mode):**

First layer:	32m
Total:	3h33m

**Print settings:**

- Print settings: G.15mm QUALITY @MK3 - Copy
- Filament: ColorFabb HT
- Printer: Prusa\_omnicol\_one\* Original Prusa i3 MK3S -Oct
- Supports: None
- Infill: 15%  Brim

**Sliced Info:**

Used Filament (g) (including spool)	30.25 (266.25)
Used Filament (m)	10.66
Used Filament (mm <sup>3</sup> )	25632.78
Cost	1.99
Estimated printing time:	
- normal mode	3h33m
- stealth mode	3h36m

**Layer list:**

Name	Editing
upperdeckRev3	<input type="checkbox"/>
sideframeV3	<input type="checkbox"/>
sideframeV3	<input type="checkbox"/>
sensorholder	<input type="checkbox"/>

**Bottom status bar:**

View Feature type Show Options 161145 175215

# Slice sample

Print settings:

- 0.15mm QUALITY @MK3 - Copy (modified)
- Filament: ColorFabb HT
- Printer: Prusa\_omnicol\_one \* Original Prusa i3 MK3 -Oct
- Supports: None
- Infill: 15%
- Brim:

Feature type	Time	Percentage	Used filament
Perimeter	43m	37.4%	1.40 m 3.97 g
External perimeter	40m	34.1%	0.96 m 2.73 g
Internal infill	11m	9.2%	0.13 m 0.38 g
Solid infill	59s	0.8%	0.02 m 0.06 g
Top solid infill	9s	0.1%	0.00 m 0.01 g
Bridge infill	18s	0.3%	0.01 m 0.03 g
Gap fill	18m	15.6%	0.06 m 0.18 g
Skirt/Brims	3m	2.2%	0.10 m 0.27 g
Custom	13s	0.2%	0.02 m 0.06 g

Estimated printing times (Normal mode):

- First layer: 3m
- Total: 1h56m

Show stealth mode

ORIGINAL PRUSA i3 MK3  
by Josef Prusa

World coordinates	X	Y	Z
Position:	126.26	77.6	17.5 mm
Rotate:	0	0	0 °
Scale factors:	100	100	100 %
Size:	6.02	6.02	35 mm
<input type="checkbox"/> Inches			

Info

- Size: 6.02 x 6.02 x 35.00 Volume: 952.10
- Facets: 76 (1 shell)
- No errors detected

Sliced info

- Used Filament (g) (including spool): 1.72 (243.72)
- Used Filament (m): 2.72
- Used Filament (mm<sup>3</sup>): 6536.29
- Cost: 0.51
- Estimated printing time:
  - normal mode: 1h56m
  - stealth mode: 1h57m

Export G-code

# Slice sample

Feature type breakdown table:

Feature type	Time	Percentage	Used filament
Perimeter	37m	34.6%	1.88 m 5.35 g
External perimeter	25m	23.8%	0.24 m 2.11 g
Overhang perimeter	13s	0.2%	0.01 m 0.04 g
Internal infill	5m	4.7%	0.17 m 0.48 g
Solid infill	21m	19.4%	0.38 m 2.78 g
Fog solid infill	3m	2.4%	0.10 m 0.29 g
Bridge infill	3m	2.5%	0.17 m 0.48 g
Gap fill	9m	8.5%	0.05 m 0.14 g
Skirt/Brim	40s	0.6%	0.03 m 0.10 g
Support material	2m	1.7%	0.07 m 0.19 g
Support material interface	1m	1.3%	0.05 m 0.13 g
Custom	12s	0.2%	0.02 m 0.06 g

Estimated printing times (Normal mode):  
First layer: 11m  
Total: 1h46m  
[Show stealth mode](#)

Print settings:  
0.15mm QUALITY @IMK3 - Copy (modified)  
Filament: ColorFabb HT  
Printer: Prusa\_omnicol\_one - Original Prusa i3 MK3S i-Oct  
Supports: Support on build plate only  
Infill: 15%  
Brim:

Sliced Info:  
Used Filament (g) (including spool): 12.15 (248.15)  
Used Filament (m): 4.28  
Used Filament (mm<sup>3</sup>): 10294.56  
Cost: 0.80  
Estimated printing time:  
- normal mode: 1h46m  
- stealth mode: 1h47m

Export G-code

# Slice sample

The screenshot displays the PrusaSlicer interface. The main window shows a 3D model of a nut on a grid. The printer is identified as "ORIGINAL PRUSA i3 MK3 by Josef Prusa". The software is titled "Untitled - PrusaSlicer-2.4.2 based on Slic3r".

**Feature type table:**

Feature type	Time	Percentage	Used filament
Perimeter	44s	14.3%	0.02 m 0.05 g
External perimeter	3m	59.0%	0.06 m 0.17 g
Gap fill	32s	16.7%	0.00 m 0.00 g
Skirt/Brim	18s	6.0%	0.01 m 0.03 g
Custom	12s	4.9%	0.02 m 0.06 g

**Estimated printing times:**

First layer: 41s  
Total: 5m

**Print settings:**

- 0.15mm QUALITY @IMK3 - Copy
- Filament: ColorFabb HT
- Printer: Prusa\_omnicone \* Original Prusa i3 MK3S -Oct
- Supports: None
- Infill: 15%
- Brim:

**Instance manipulation table:**

World coordinates	X	Y	Z	mm
Position:	121.58	106.62	1.75	
Rotate:	0	0	0	°
Scale factors:	100	100	100	%
Size:	6	6	3.5	mm

**Info:**

- Size: 6.00 x 6.00 x 3.50 Volume: 46.07
- Facets: 746 (1 shell)
- No errors detected

**Sliced Info:**

- Used Filament (g) (including spool): 0.31 (236.31)
- Used Filament (m): 0.11
- Used Filament (mm<sup>3</sup>): 260.78
- Cost: 0.02
- Estimated printing time:
  - normal mode: 5m
  - stealth mode: 5m

**Export G-code**



## Disclaimer

Do not use this file for commercial purpose without any permission.

This model is designed to make FDM 3Dprinter, the parts have some additive markings, however, no problem for those parts function.

We use/recommend ColorfabbHT firmament

<https://colorfabb.com/colorfabb-ht-tritan>

If you have any question, please contact is via a form.

<https://www.crafthub.io/contact-us/> Crafthub.io kay Hirano

<https://www.crafthub.io>

Instagram: @crafthub.io

YouTube:

[https://www.youtube.com/channel/UC5s76d53JjdKf\\_krIeUo6MQ/videos](https://www.youtube.com/channel/UC5s76d53JjdKf_krIeUo6MQ/videos)

Special thanks to Earl Alexander Seung Snyder