

# Dual-Struder Fabricator

DRAFT/INCOMPLETE

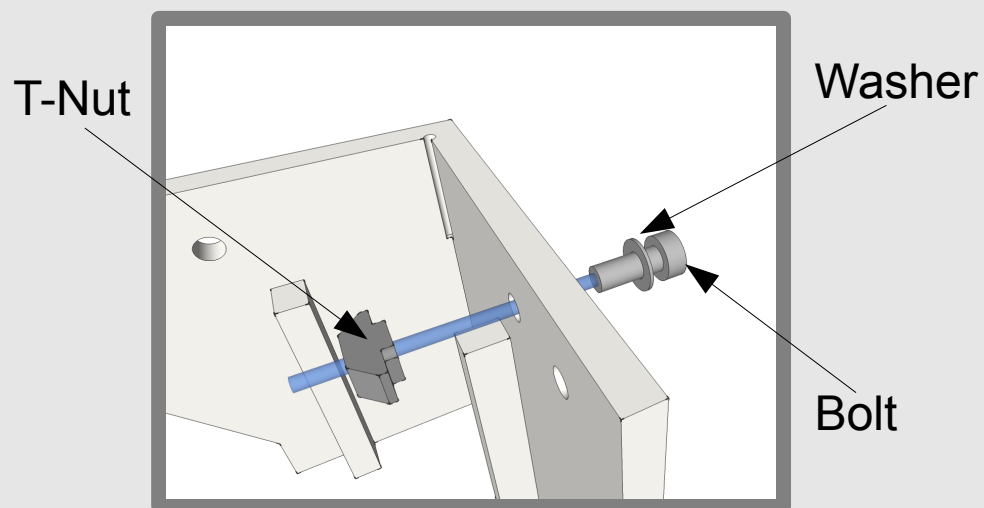
Build Guide



# Introduction



- The frame of the fabricator is made with extruded aluminium.
- To attach the components to the frame 'T-Nuts' are used.
- Place the nut and washer through the part and screw on the T-Nut a small amount.
- You can push the T-Nut horizontally into the extrusion, as you tighten the bolt the nut turns in the extrusion and grips the aluminium extrusion.

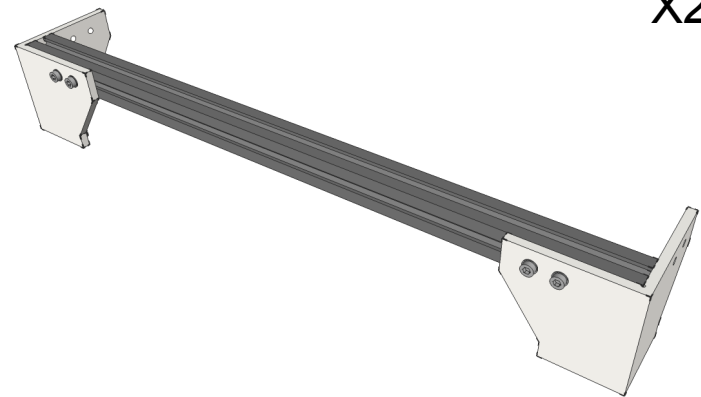


# Frame Sides



## Parts:

- 4 x Frame Foot
- 2 x 420mm Extrusion
- 8 x M4 10mm Bolts
- 8 x M4 Washers
- 8 x M4 T-Nuts

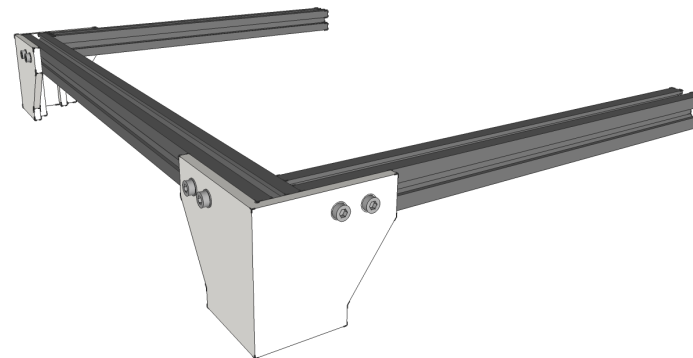
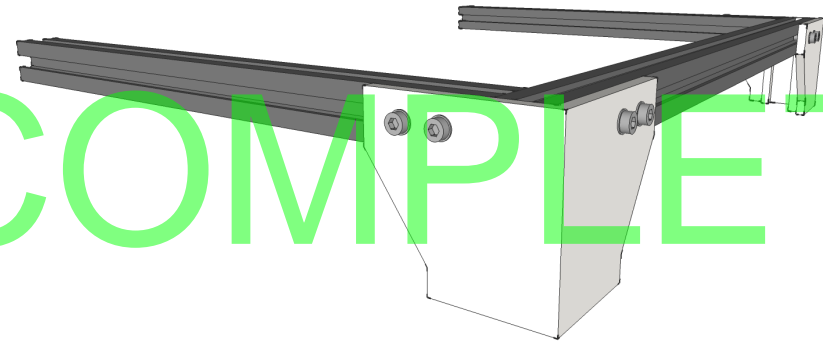


# Frame Front and Back



## Parts:

- 2 x 280mm Extrusion
- 4 x M4 10mm Bolts
- 4 x M4 Washers
- 4 x M4 T-Nuts

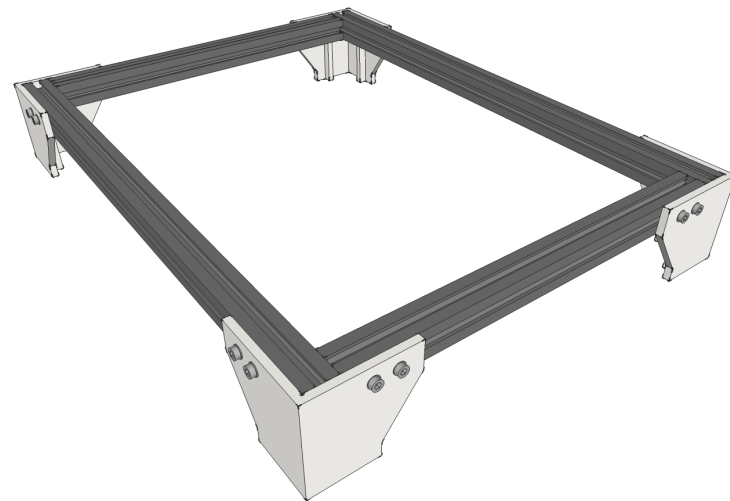


# Frame Lower



## Parts:

- 1 part from Frame (a)
- 4 x M4 10mm Bolts
- 4 x M4 Washers
- 4 x M4 T-Nuts

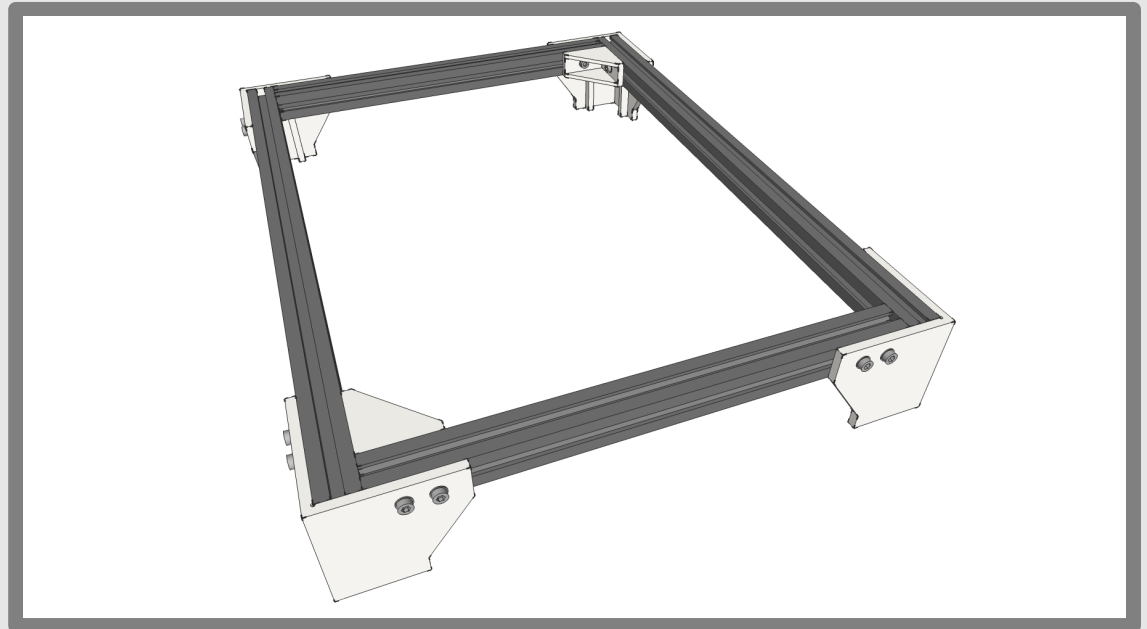


# Frame Braces



## Parts:

- 2 x Corner braces
- 4 x M4 10mm Bolts
- 4 x M4 Washers
- 4 x M4 T-Nuts

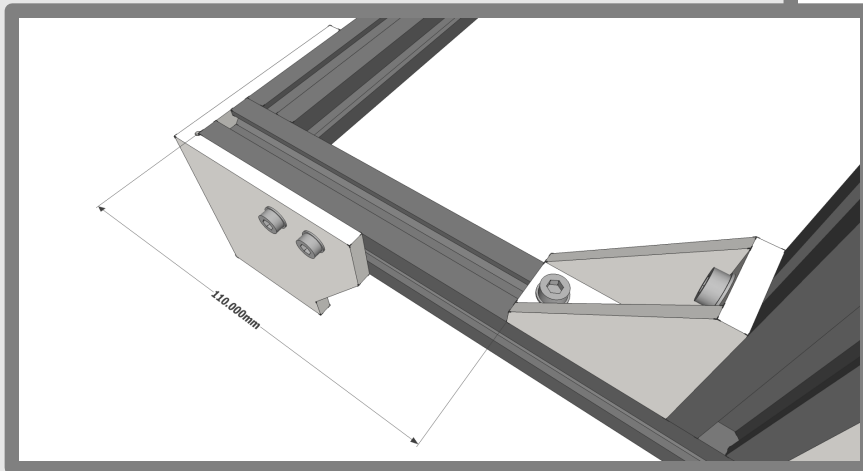


# Frame Gantry Uprights



## Parts:

- 2 x 355mm Extrusion
- 2 x Front Gantry Brace
- 2 x Rear Gantry Brace
- 14 x M4 10mm Bolts
- 14 x M4 Washers
- 14 x M4 T-Nuts

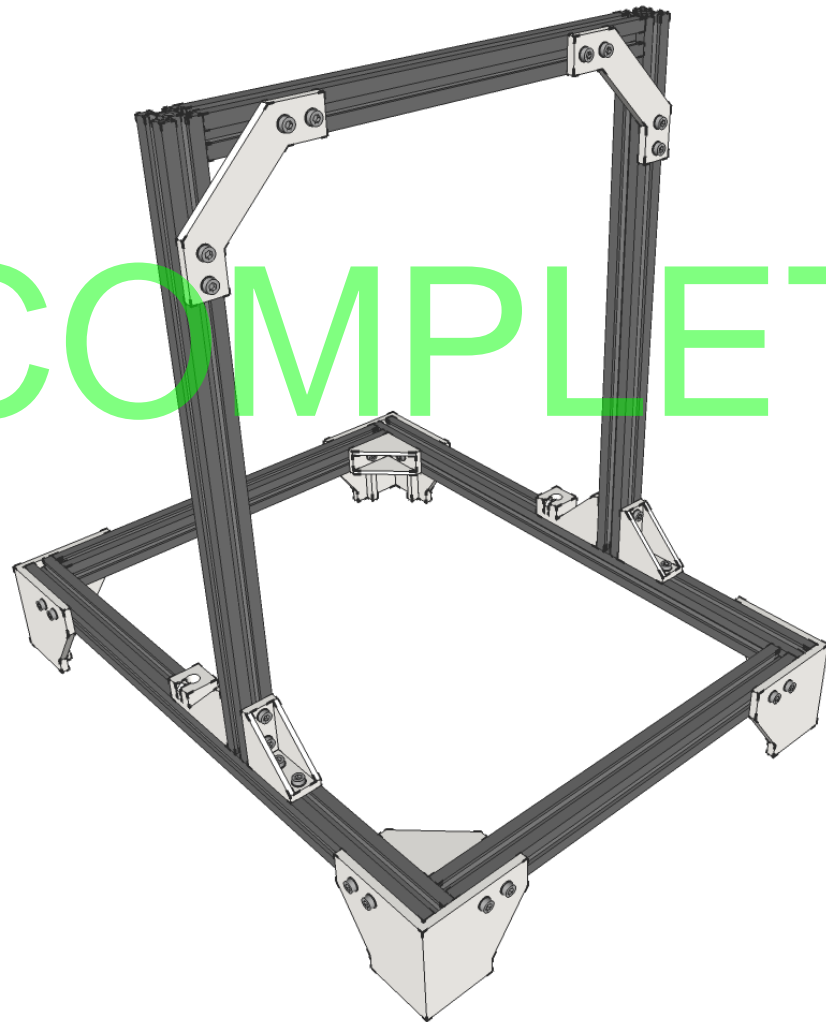


# Frame Gantry Top



## Parts:

- 1 x 280mm Extrusion
- 2 x Corner braces
- 8 x M4 10mm Bolts
- 8 x M4 Washers
- 8 x M4 T-Nuts



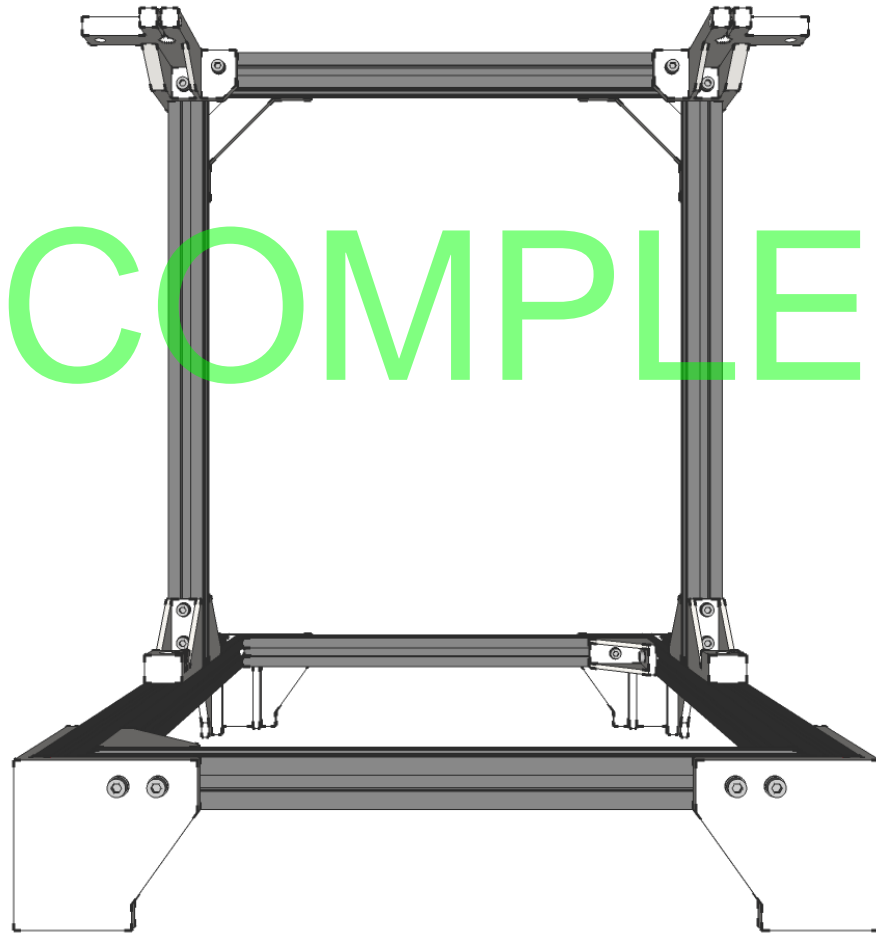


# Frame Gantry Z Axis Supports



## Parts:

- Left and Right Upper Z Axis Supports
- 4 x M4 10mm Bolts
- 4 x M4 Washers
- 4 x M4 T-Nuts

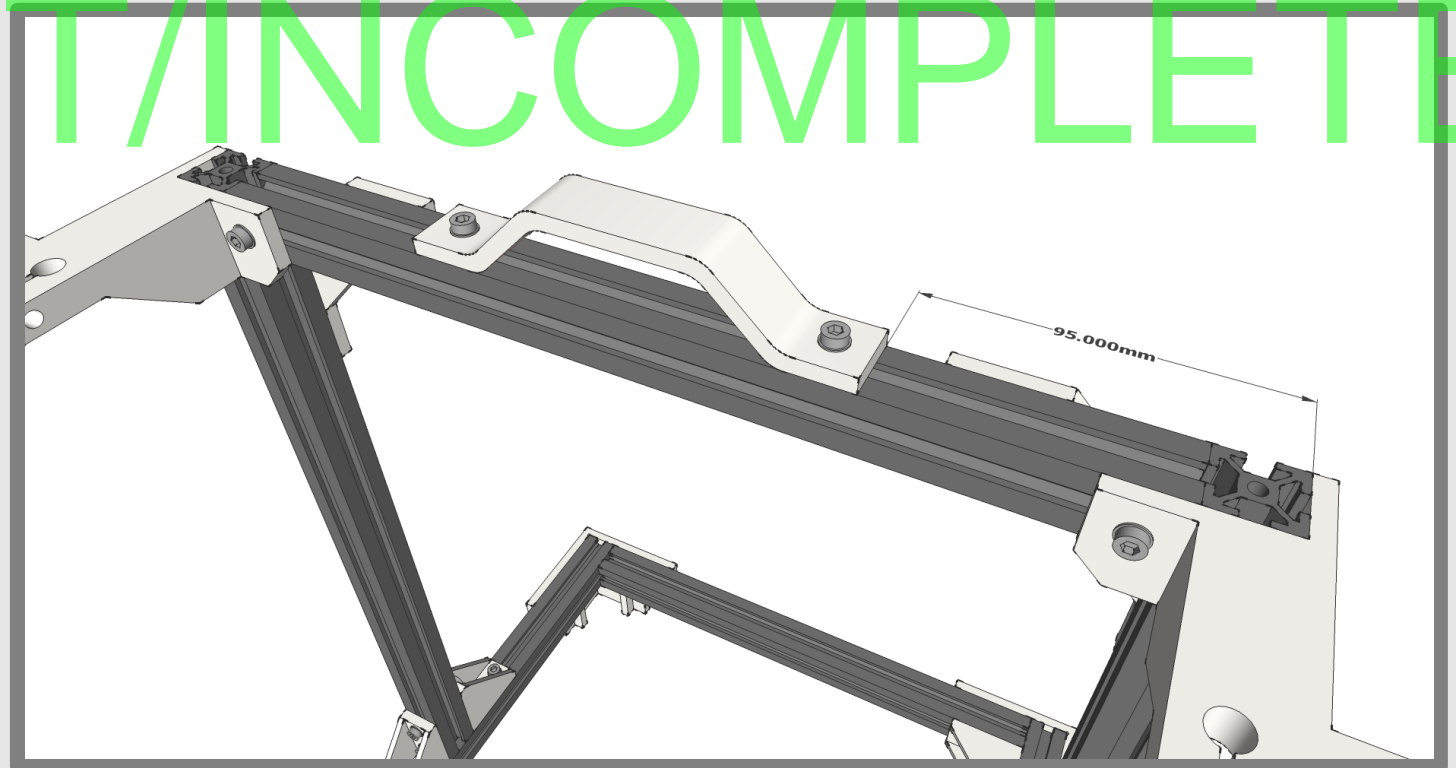


# Frame Handle



## Parts:

- Handle
- 2 x M4 10mm Bolts
- 2 x M4 Washers
- 2 x M4 T-Nuts

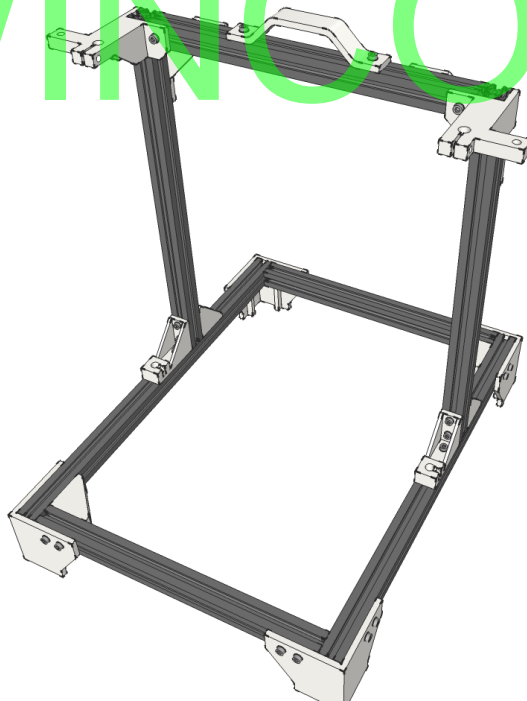


# Frame Complete



## The Story So Far

- The general frame is now complete and should look like this:

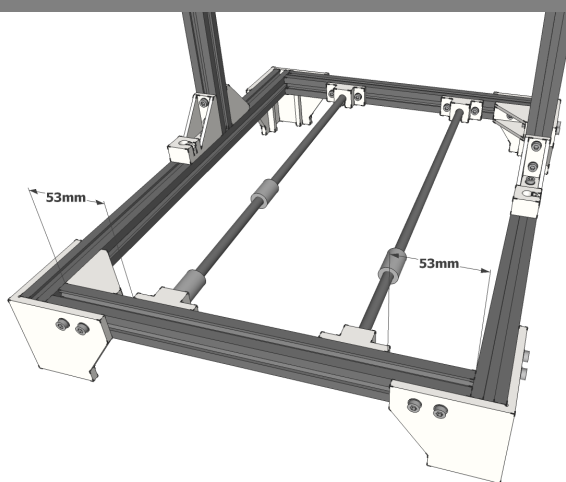
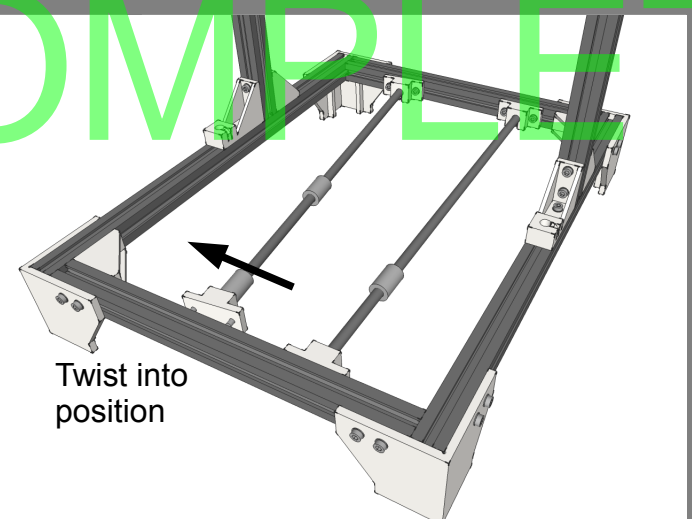
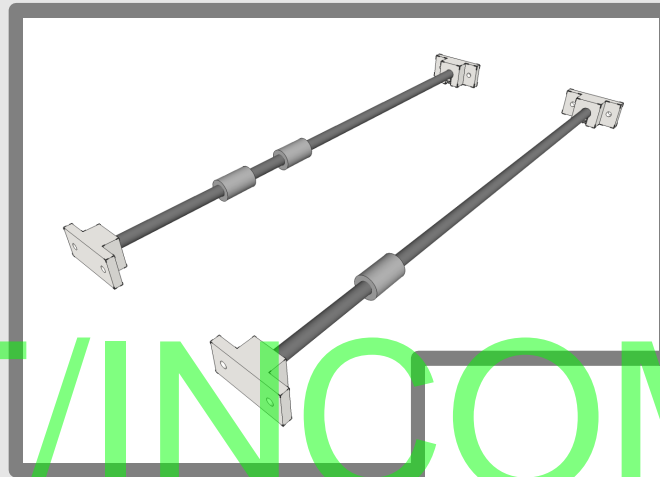


# Y Axis Smooth Rods



## Parts

- 2 x 360mm Smooth Bar
- 4 x Y Axis Bar Holder
- 8 x M4 10mm Bolts
- 8 x M4 Washers
- 8 x M4 T-Nuts
- 3 x LM8UU

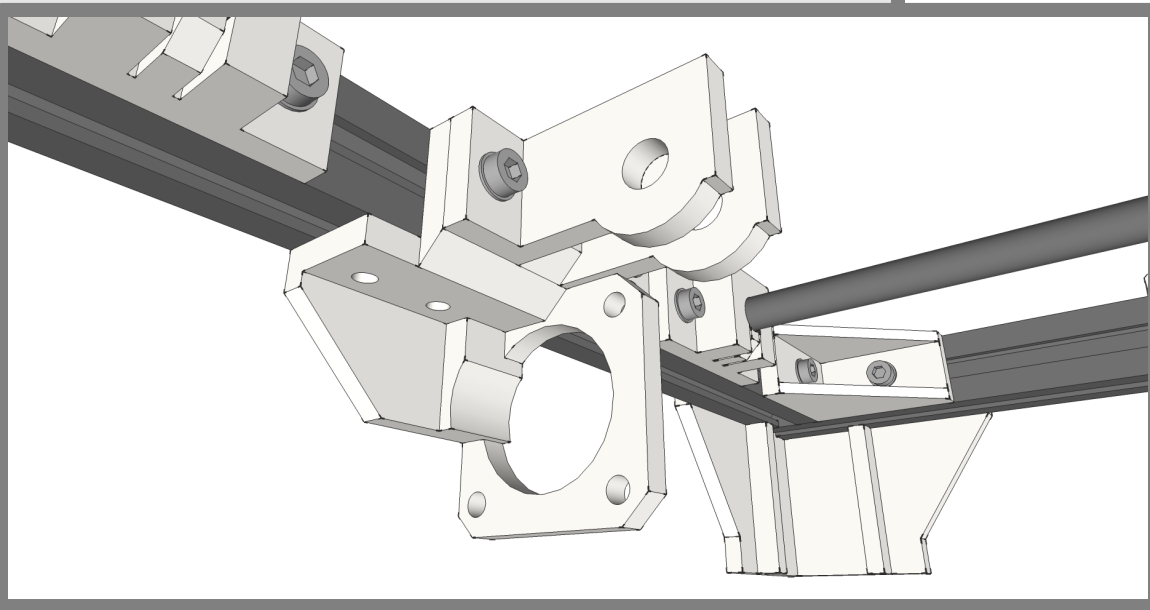
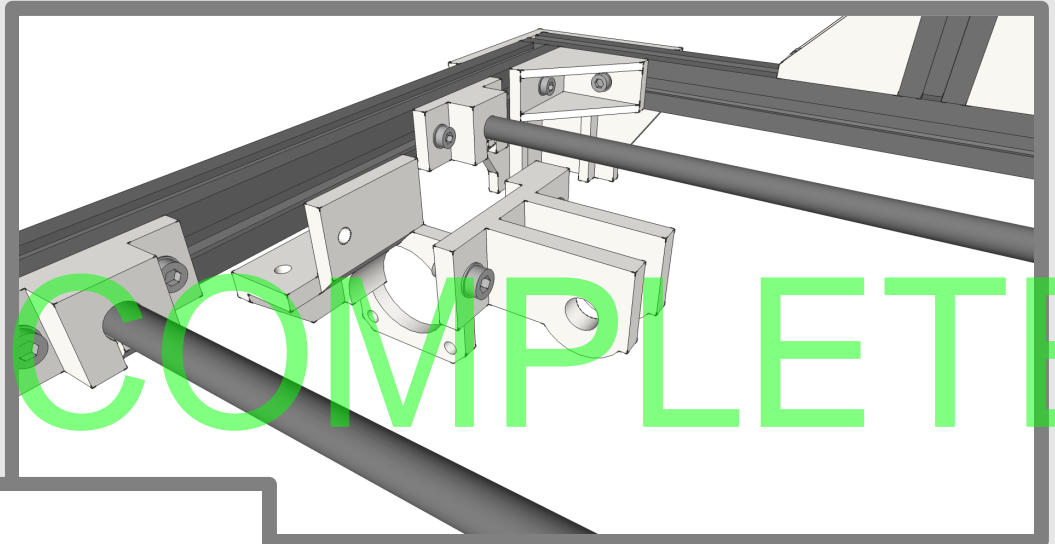


# Y Axis Motor Mount and Idler



## Parts

- Y Axis Motor Mount
- Y Axis Motor Side Idler
- 2 x M4 16mm Bolts
- 2 x M4 Washers
- 2 x M4 T-Nuts

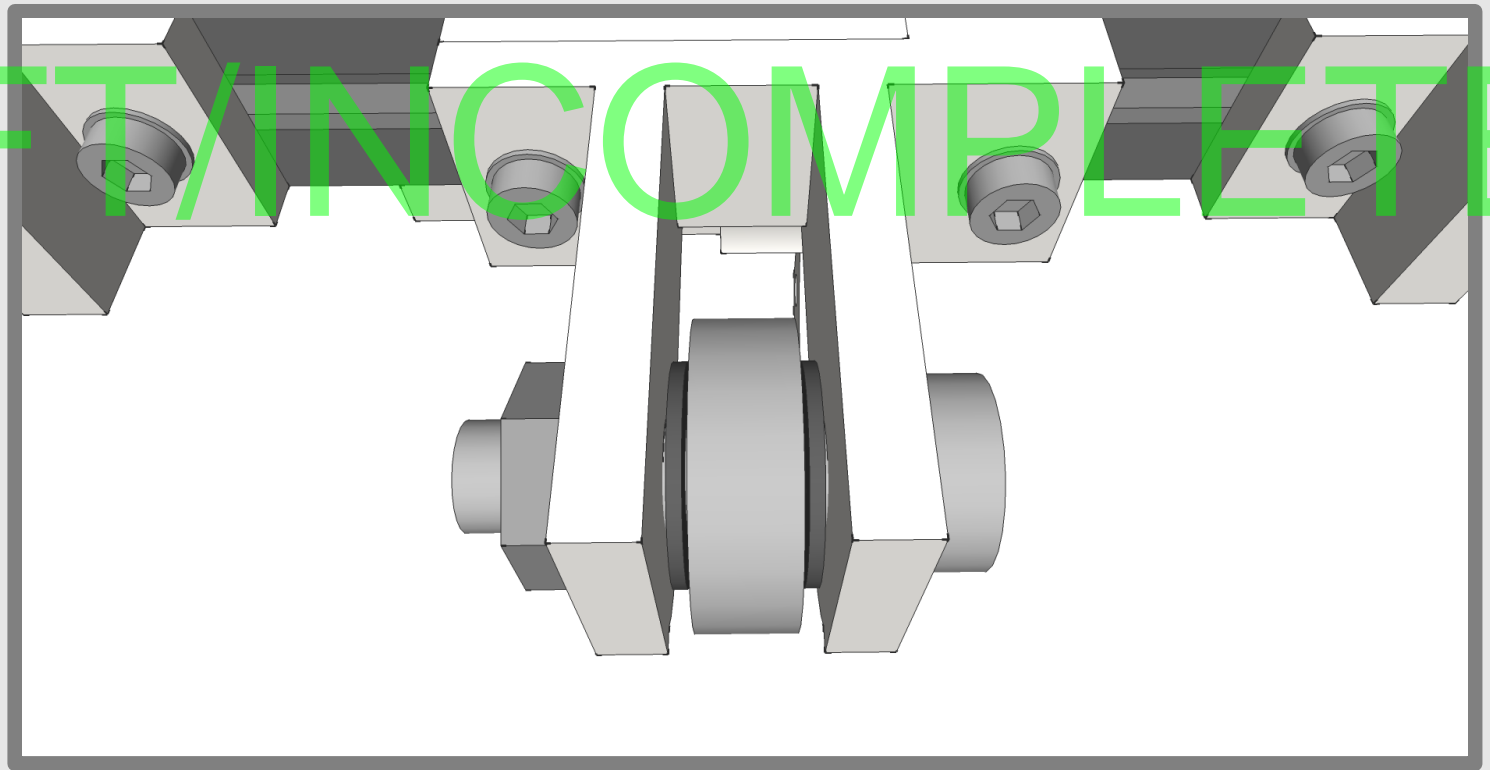


# Y Axis Motor Side Idler Bearing



## Parts

- 1 x 608 Bearing
- 1 x M8 35mm Bolt
- 2 x M8 Washers
- 1 x M8 Nut

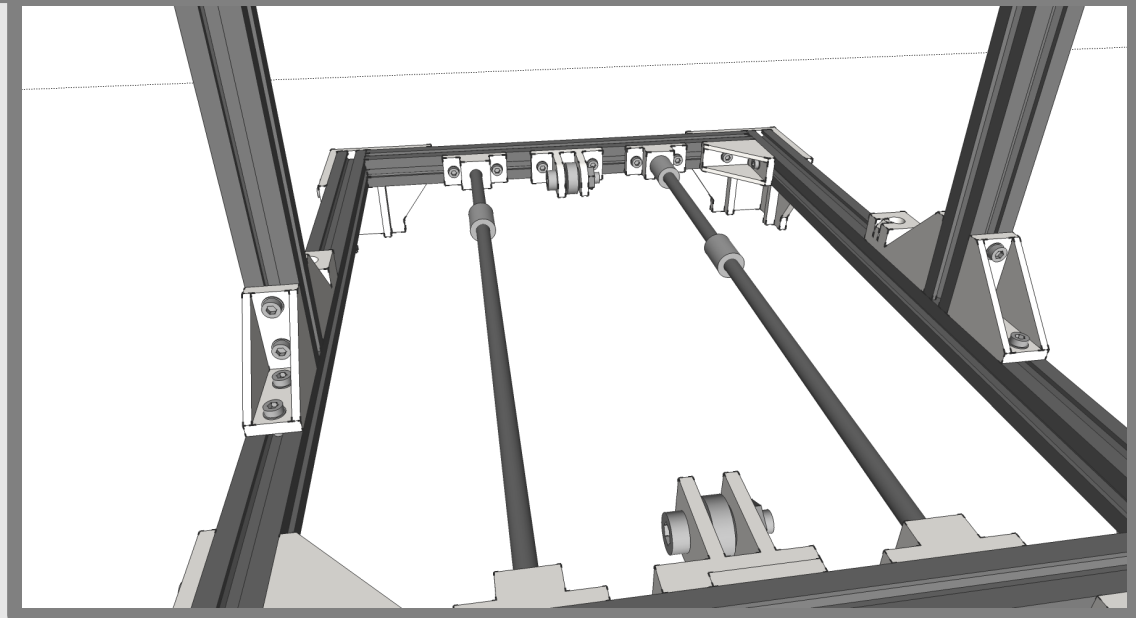
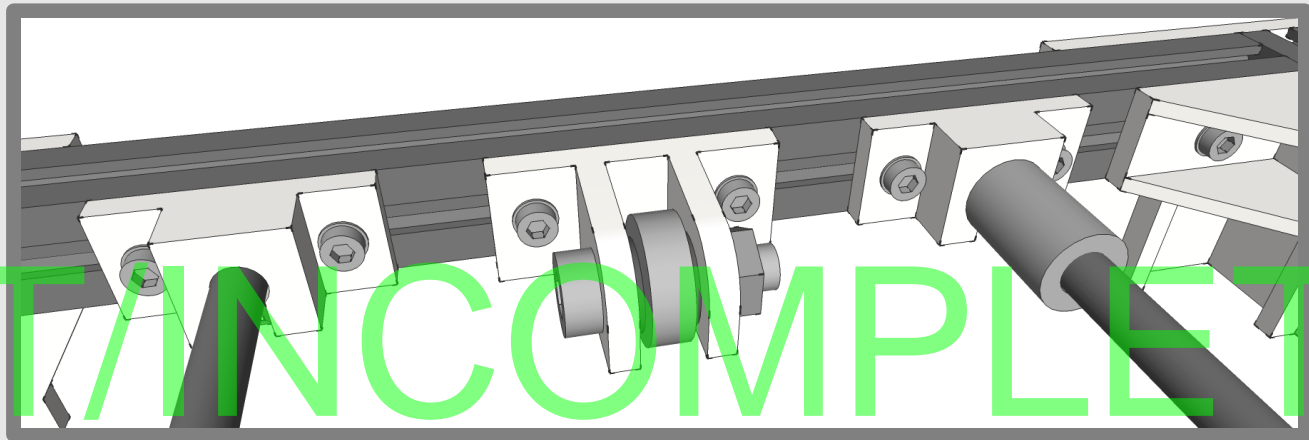


# Y Axis Idler Bearing



## Parts

- Y Axis Idler Mount
- 2 x M4 10mm Bolts
- 2 x M4 Washers
- 2 x M4 T-Nuts
- 1 x 608 Bearing
- 1 x M8 35mm Bolt
- 2 x M8 Washers
- 1 x M8 Nut

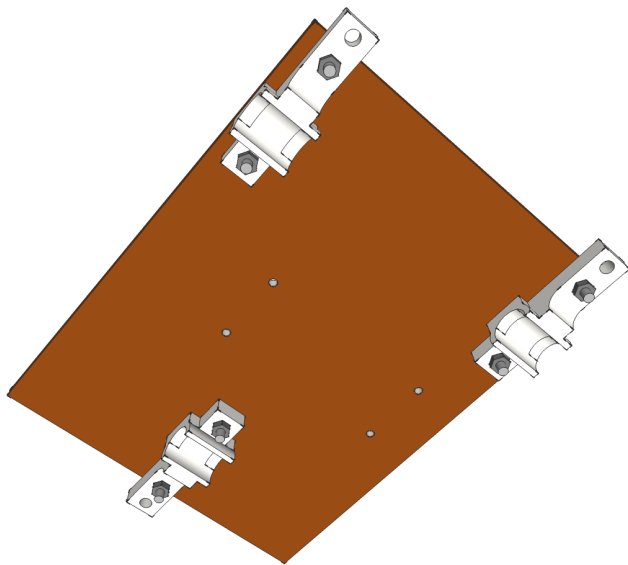
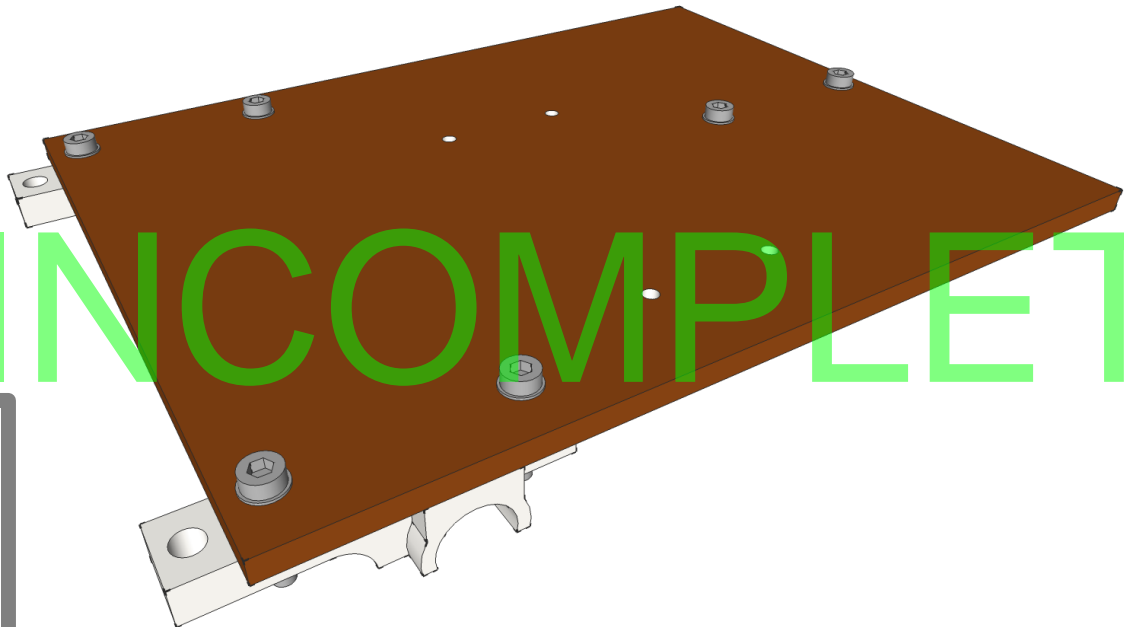


# Y Axis Base Frog



## Parts

- 3 x Y Axis Bed Runner
- 6 x M4 20mm Bolts
- 6 x M4 Washers
- 6 x M4 Hex Nuts



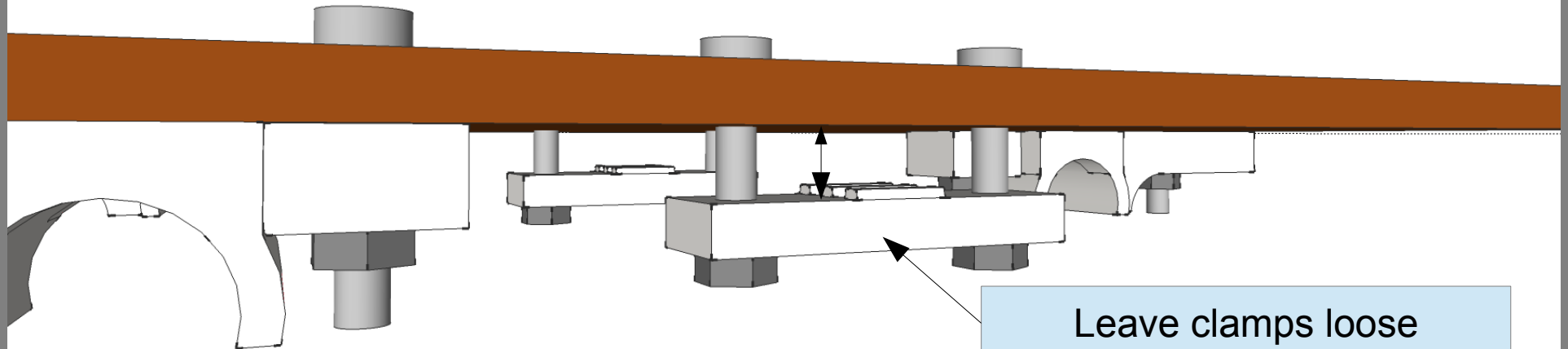
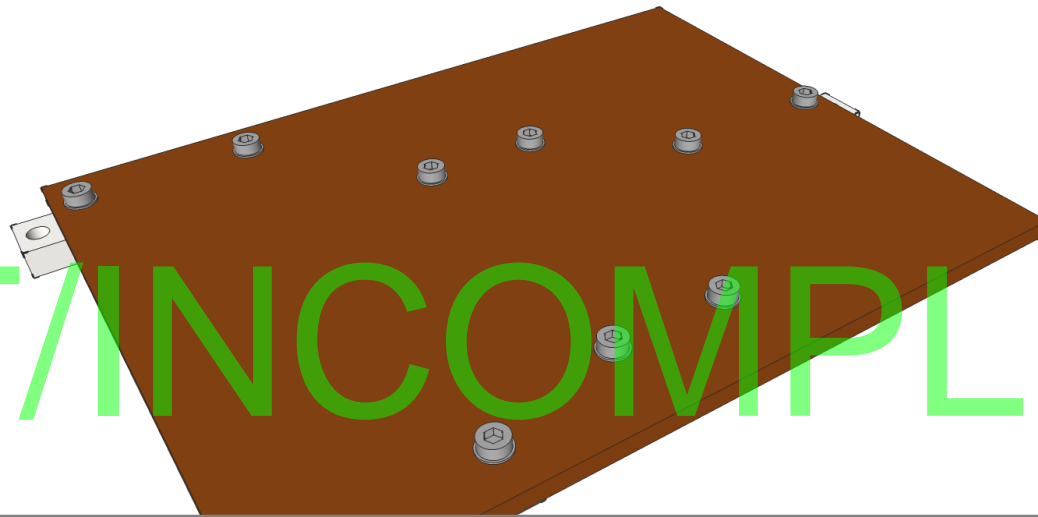


# Y Axis Base Frog Belt Clamps



## Parts

- 2 x Y Axis Belt Clamp
- 4 x M4 20mm Bolts
- 4 x M4 Washers
- 4 x M4 Hex Nuts



# Y Axis Base Frog Mounting



## Parts

- Y Axis Frog Unit
- Frame

Push Frog down on to linear bearings

