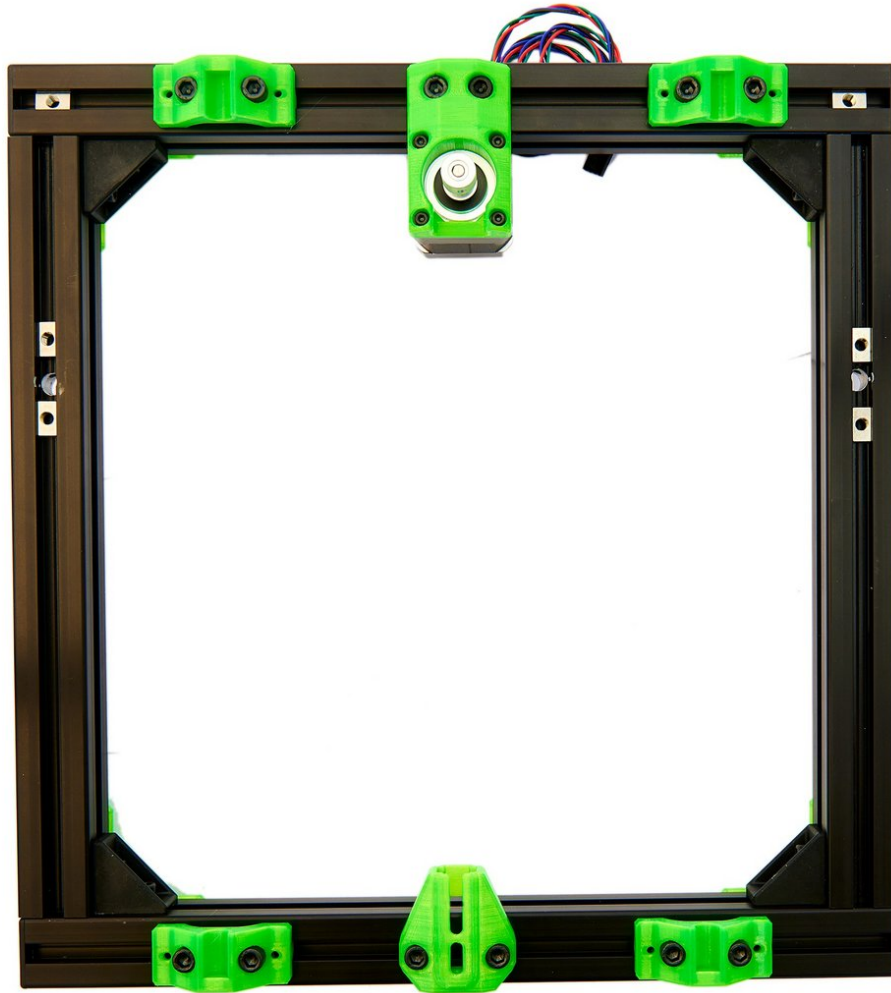


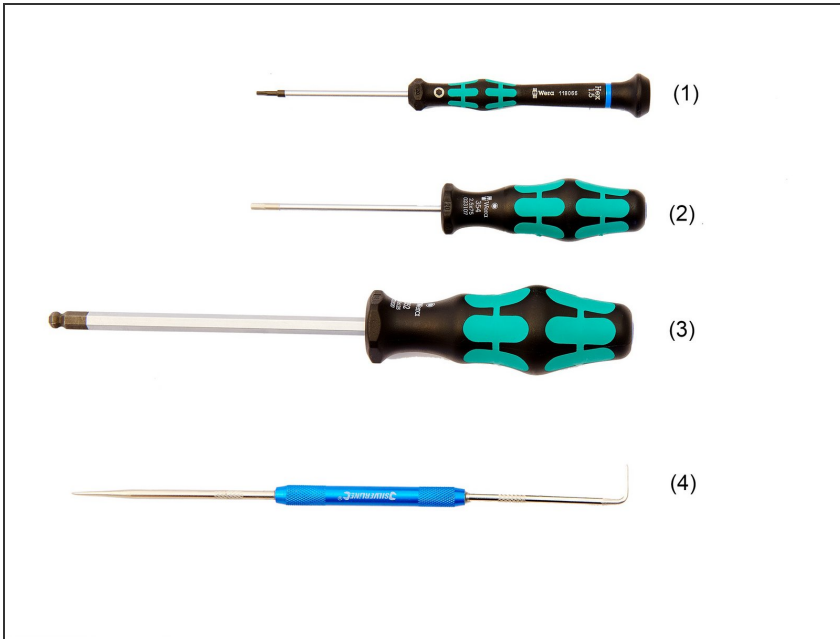
caribou3d

02. Assembly of the y-Axis

Written By: Caribou3d

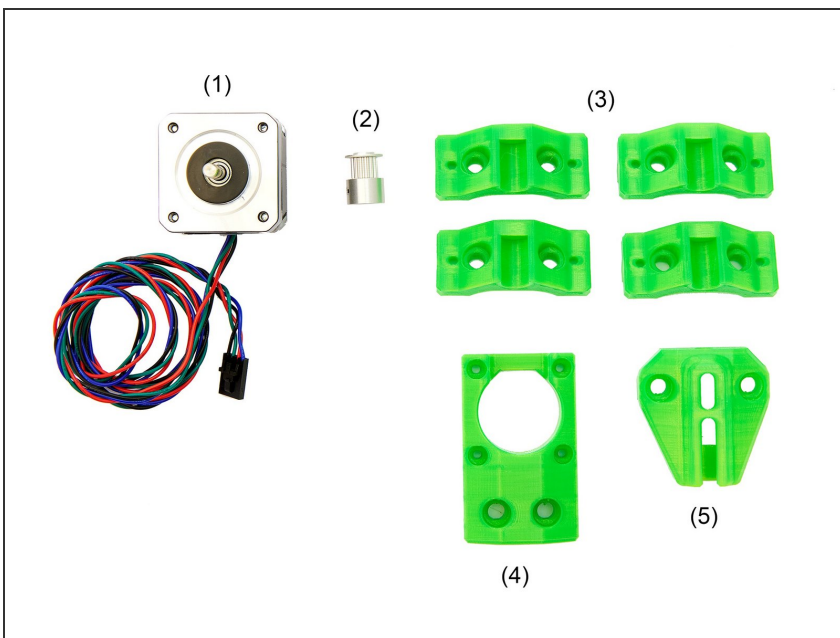


Step 1 — 02. Assembly of the y-Axis



- (1) [1.5mmx60mm Hexagonal Micro Screwdriver for Electronic Applications](#)
- (2) [2.5x75mm Hexagonal Screwdriver](#)
- (3) [5.0x100mm Hexagon Ballend Screwdriver](#)
- (4) [Engineer Scriber](#)

Step 2 — Assembling the Parts



- (1) [Stepper Motor](#)
- (2) [GT3 Toothed Pulley](#)
- (3) **4x** y-Rodholder Bottom
- (4) y-Motorholder
- (5) y-Belt Tensioner

Step 3 — Assembling the Screws



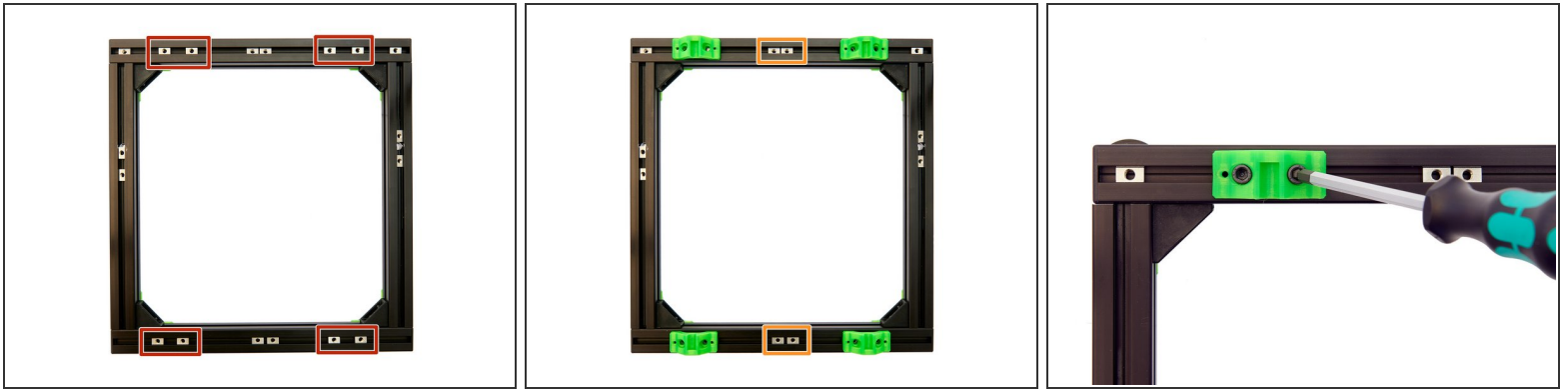
- (1) **4x** [Black M3 Washers](#)
- (2) **8x** [M3 Self-Securing Nuts](#)
- (3) **4x** [M3x10mm Hexagon Socket Head Cap Screws](#)
- (4) **12x** [M6x12mm Hexagon Socket Head Cap Screws](#)

Step 4 — Preparing the y-Rodholders



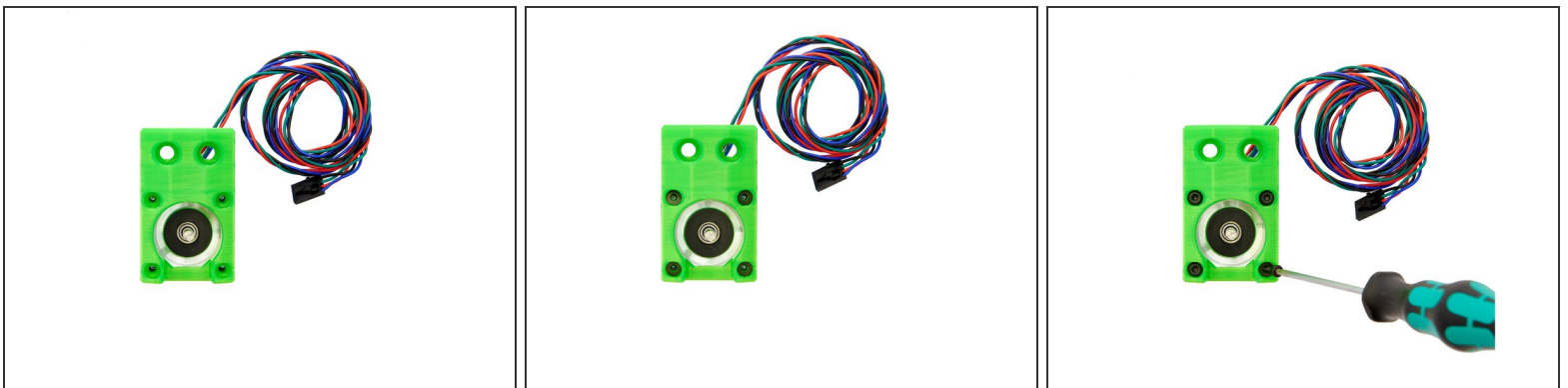
- Using an **Engineer Scriber**, insert **2x M3 Self-Securing Nuts** into each of the y-bar holders.
 - Alternatively, you can tighten the M3 Self-Securing Nuts with an **M3 Screw** from the other side.

Step 5 — Installing the y-Rodholders



- Align the T-Nuts and the frame as shown in figure 1.
- Now, place the four y-rodholders on the frame (see figure 3), assigning each hole to a T-Nut.
- For the x-axes, make sure that there are **2x T-Nuts** between the two y-rodholders.
- The y-rodholders are now screwed on using **8x M6x12mm Hexagon Socket Head Cap Screws**.
 ⚠ These screws are initially only loosely tightened, as the y-rodholders need to remain movable.

Step 6 — Assembling the y-Motorholder



- Place the y-motorholder on to the stepper motor.
 ⚠ Make sure the cables are leading to the holes for the M6 screws.
- Then, attach the motor to the y-motorholder. Use the **4x M3 Washers** and the **4x M3x10mm Hexagon Socket Head Cap Screws** to fasten it.

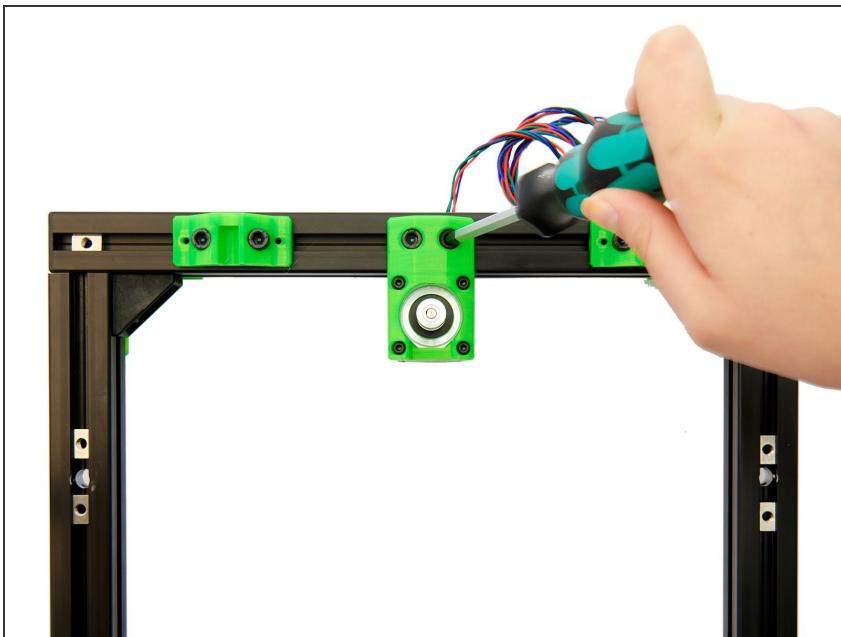
Step 7 — Installing the GT3 Pulley



- Slide the GT3 pulley onto the motor shaft of the stepper motor.
- The GT3 pulley has two grub screws. Ensure that one of these screws is aligned with the flat surface of the shaft. Then, tighten both grub screws.

 To avoid friction, leave a small gap between the pulley and the motor surface.

Step 8 — Installing the y-Motorholder



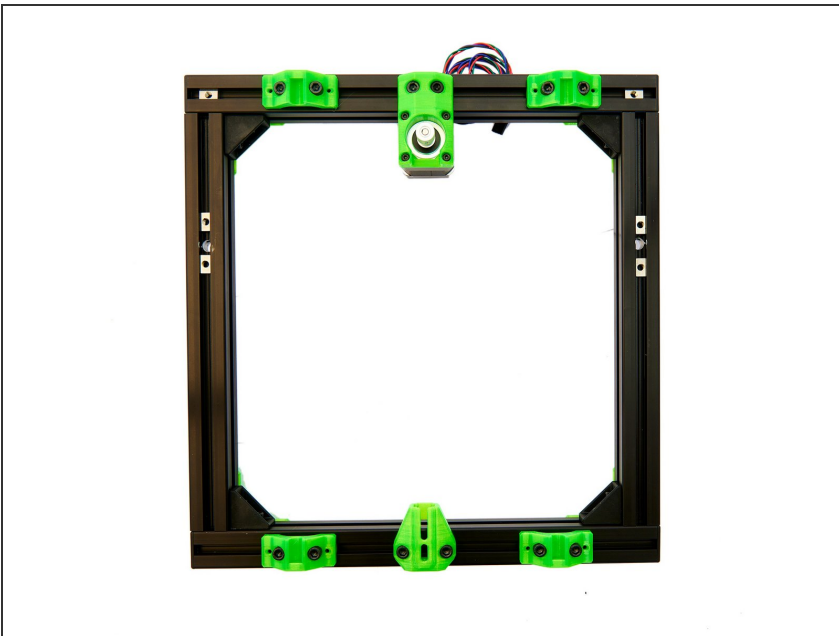
- Attach the assembled y-motorholders to the **2x T-Nuts** between the two y-rodholders in the rear x-axis. Use **2x M6x12mm Hexagon Socket Head Cap Screws** for this.

Step 9 — Installing the y-Belt Tensioner



- Place the y-belt tensioner on **2x T-Nuts** in the front x-axis and fasten it loosely with **2x M6x12mm Hexagon Socket Head Cap Screws**.
- ⓘ Both the y-motorholder and the y-belt tensioner must be easily movable on the corresponding x-axes.

Step 10



- ⓘ The setup of the y-axis is now complete.
- continue with the manual [03. Assembly and Installation of the Heatbed Carriage for MK52-Blocks](#).