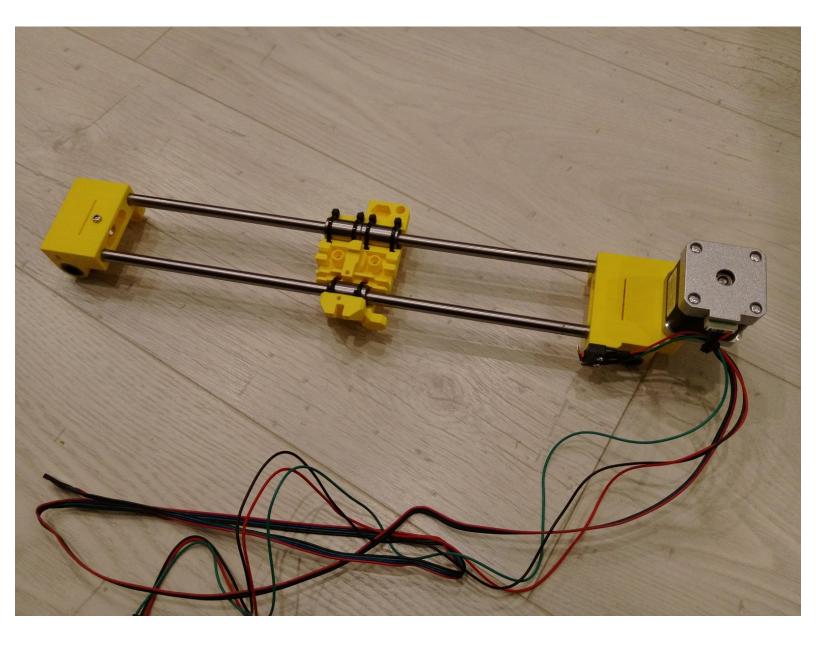
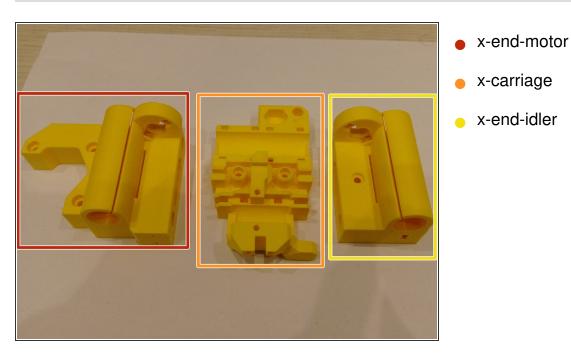
MK2Clone **2. X-axis assembly**

Written By: q3ok



Step 1 — Printed parts needed

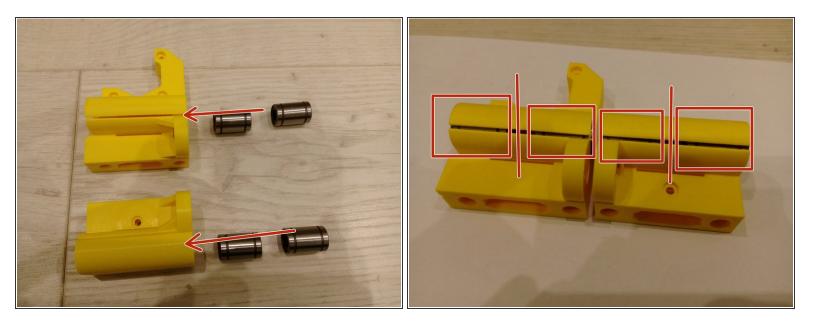


Step 2 — Prepare the smooth rods



- Take the 370mm (medium ones) smooth rods and 3x LM8UU bearing
- Put the bearings on smooth rods

Step 3 — Insert bearings into printed parts



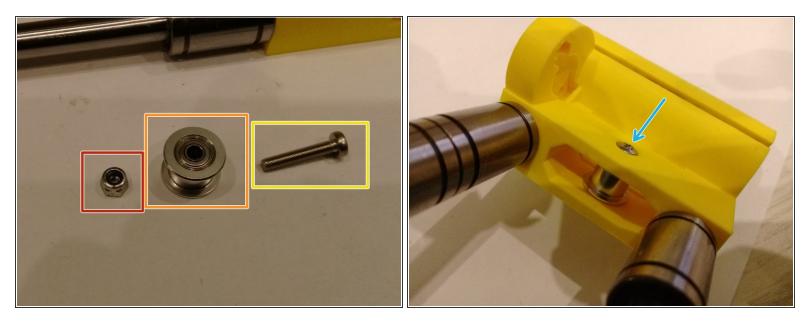
- (i) Take the x-end-idler, x-end-motor and 4x LM8UU bearing
- Insert the bearings to plastic parts (2 in each part)
- (i) The bearings can be inserted only from the top (there is a rim on bottom)

Step 4 — X-axis rods assembly



- Insert the prepared before linear shafts into plastic parts as shown on photos
- (i) Make sure that you put the linear shaft with two bearings on top

Step 5 — X-end idler

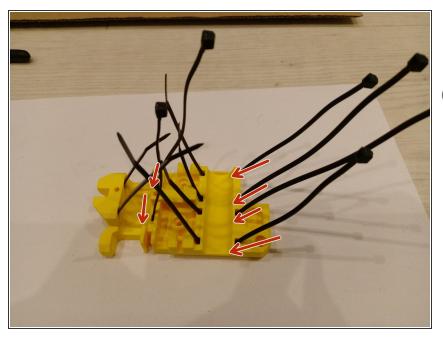


- GT2-16 idler pulley, bore 3mm
- M3 self-locking nut
- M3x15 screw
- Insert the screw as shown on image, guide thru idler pulley and lock using nut.

A Do not overtighten as you can easily damage the plastic part

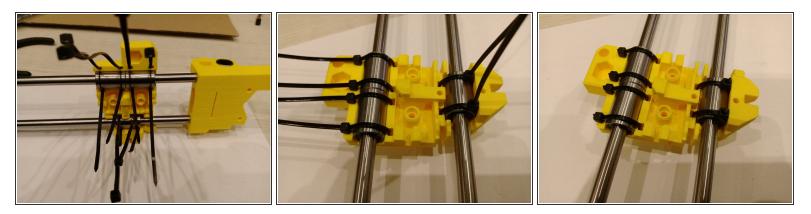
(i) To help guiding the screw thru idler you can hold the idler by pliers

Step 6 — X-carriage zipties



- Put the zipies on X-carriage as shown on image
- (i) 6x zipties is needed

Step 7 — X-carriage assembly

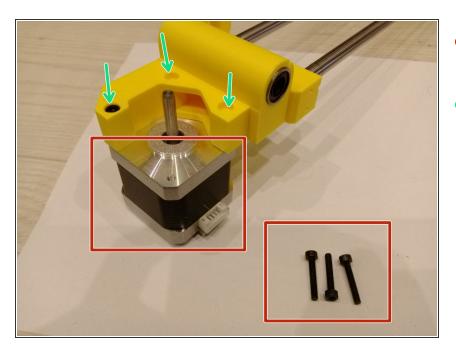


• Mount the x-carriage on bearings as shown on image

Make sure the correct orientation of X-axis

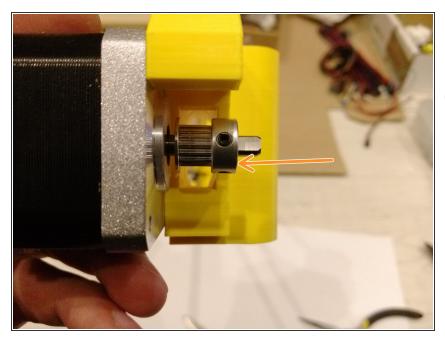
• Tighten the zipties and then cut the leftovers

Step 8 — X-axis motor



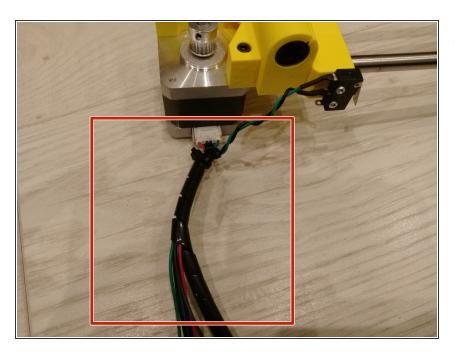
- 1x 17HS4401 stepper motor, 3x
 M3x18 screw
- Take the 17HS4401 stepper motor and mount it to the x-end-motor with screws

Step 9 — X-axis pulley



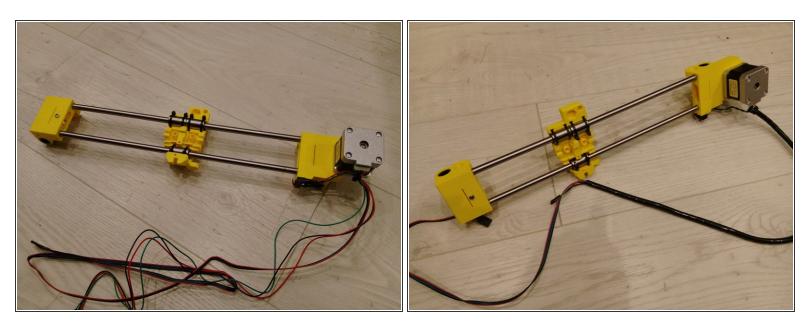
- Take the GT2-16 pulley and mount it on the motor shaft
- Make sure that one of the screws in pulley are touching the flat side of motor shaft

Step 10 — Cable wrap



 Take the spiral wrap and bend it over the cables from X axis, starting as shown on image

Step 11 — X-axis is ready!



The X-axis is ready, you can now go to <u>Z-axis assembly</u>!

(i) If your already finished your beverage, go to fridge for another one