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10. Assemble Z-Axis Lead Screw

Written By: Paul Cronje

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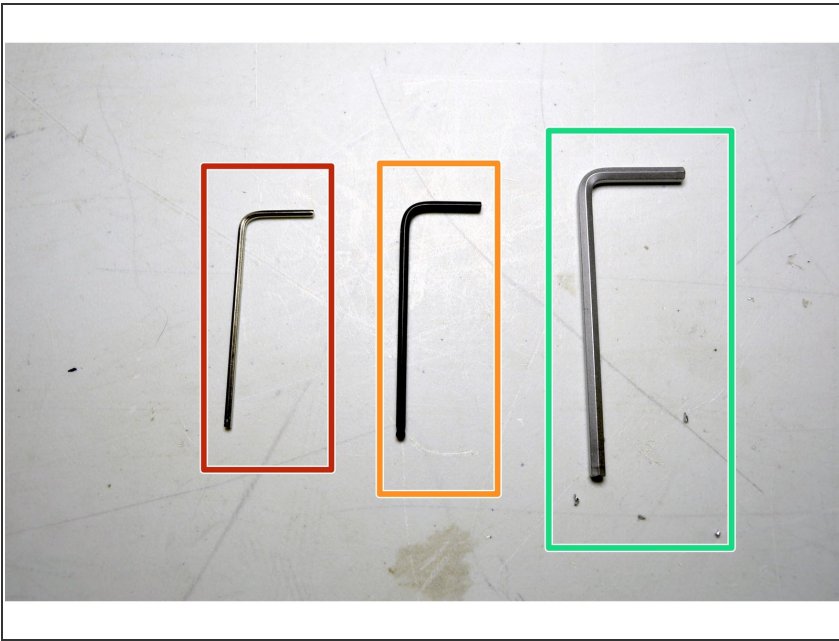
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Step 1 — Parts Required: 1

- Spindle Z-Axis Assembly
- 8mm Lead screw
- 608 Bearing (2 Pcs)
- GT2 Pulley, 20 Teeth, 8mm Bore
- Z Bearing Block
- Z Knob
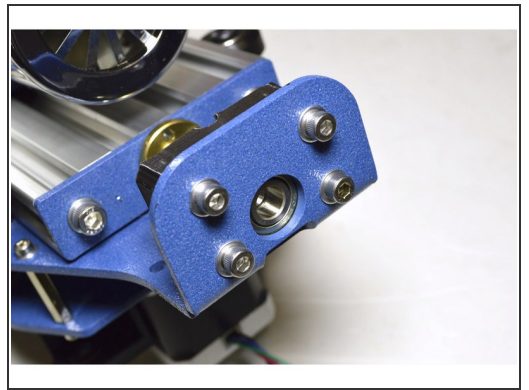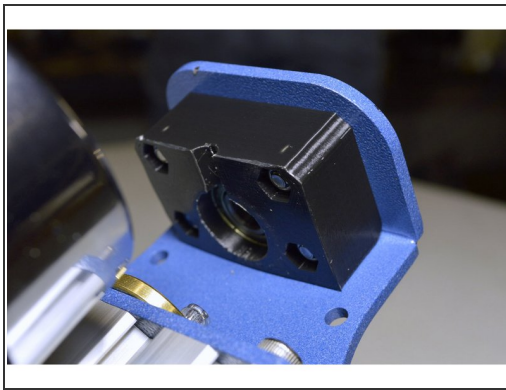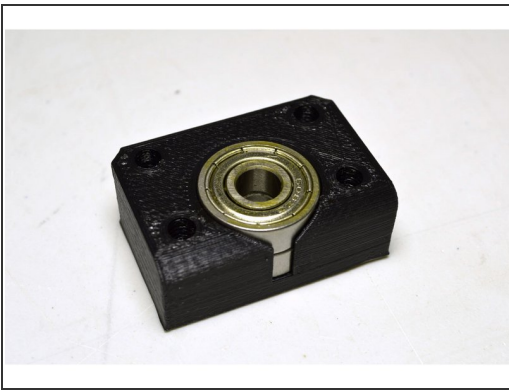- Nuts & Bolts (See next step)

Step 2 — Parts Required: 2

- M4 Lock Nut (4 Pcs)
- M4 Washer (4 Pcs)
- M4x20 Cap Screw (4 Pcs)
- 8mm Shaft Sleeve (2 Pcs)
- M3 Nut
- M3x6 Grub Screw

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Step 3 — Tools Required

- 1.5mm Allen Key
- 2mm Allen Key
- 3mm Allen Key

Step 4 — Mount Bearing Block

- Insert the 608 bearings (2 Pcs) into the printed bearing block

- Mount the beating block onto the Spindle Z-Axis Assembly with the M4x20 cap screws (4 Pcs), M4 Washers (4 Pcs) and M4 Lock Nuts (4 Pcs)

⚠ Do not fully tighten the M4 screws yet, the allignment needs to be done first

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Step 5 — Insert the lead screw

- Insert the lead screw through the bearing block, through one 8mm Shaft Sleeve and screw it into the brass lead screw nut

Step 6 — Prepare the Z-Knob
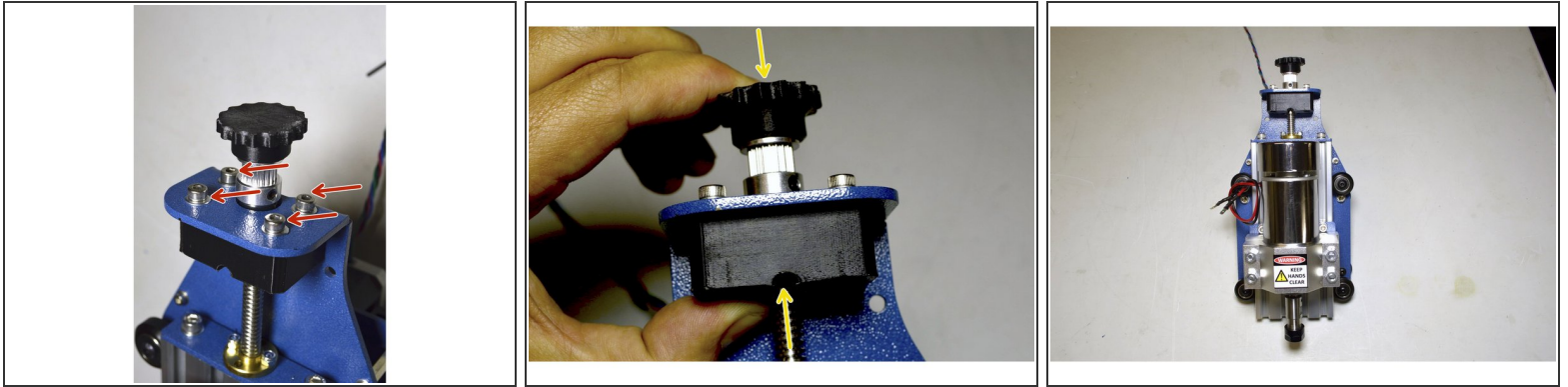

- Insert the M3 nut into the slot at the bottom on the Z-knob

- Screw the M3x6 grub screw into the M3 nut with the 1.5mm Allen Key

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Step 7 — Assemble Z-Knob

- Slide the other 8mm Shaft Sleeve, GT2 Pulley and Z-Knob onto the lead screw

- Mount the Z-knob onto the lead screw by tightening the M3 grub screw

- Slide the GT2 Pulley and the 8mm Shaft Sleeve upwards till it is against the Z-knob and tighten them

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Step 8 — Mount Lead Screw

- Tighten the M4x20 screws which mounts the bearing block

- Make sure not to over tighten these screws so that the Bearing block breaks

- Push the Z-knob and bottom collet towards each other, while tightening the bottom collet

- Make sure the lead screw can turn easily and that there is no vertical play on the spindle assembly, else the collets needs to be adjusted

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