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11. Assemble Z-Motor

Written By: Paul Cronje

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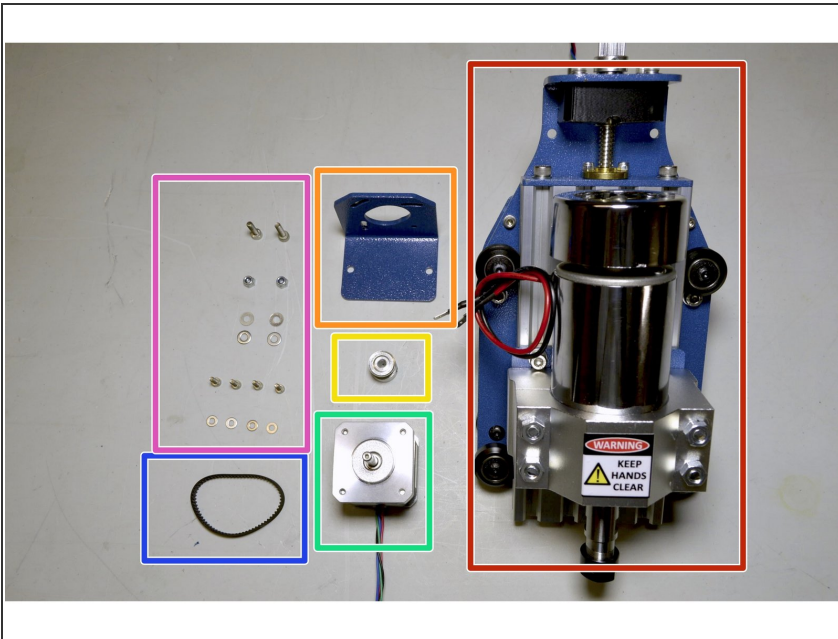© 2021   cron.dozuki.com/   Page 1 of 6
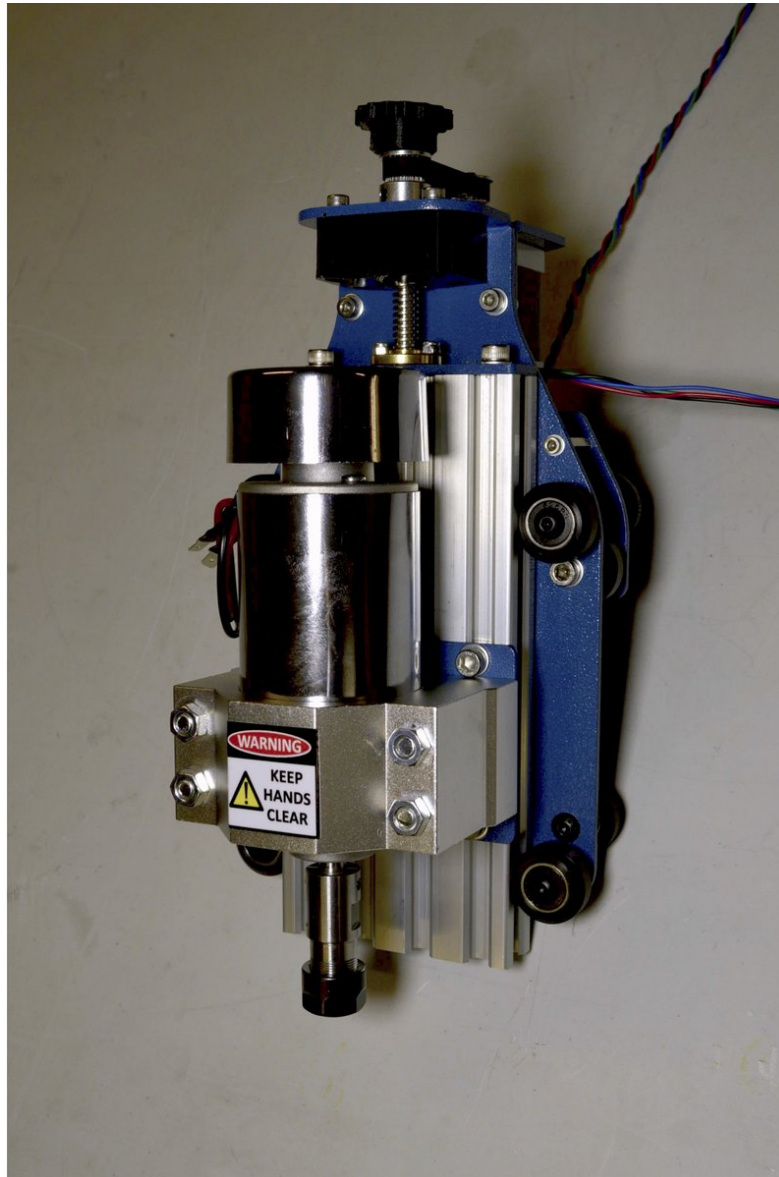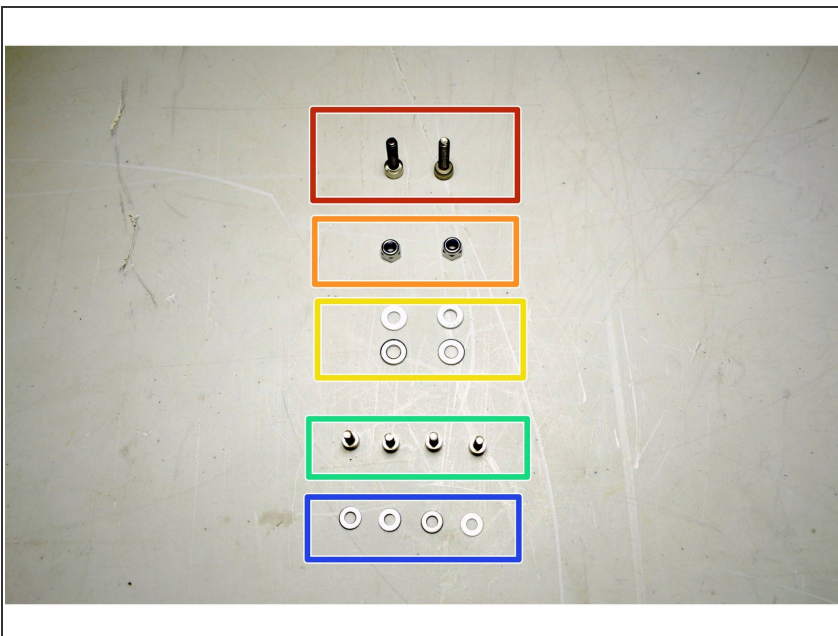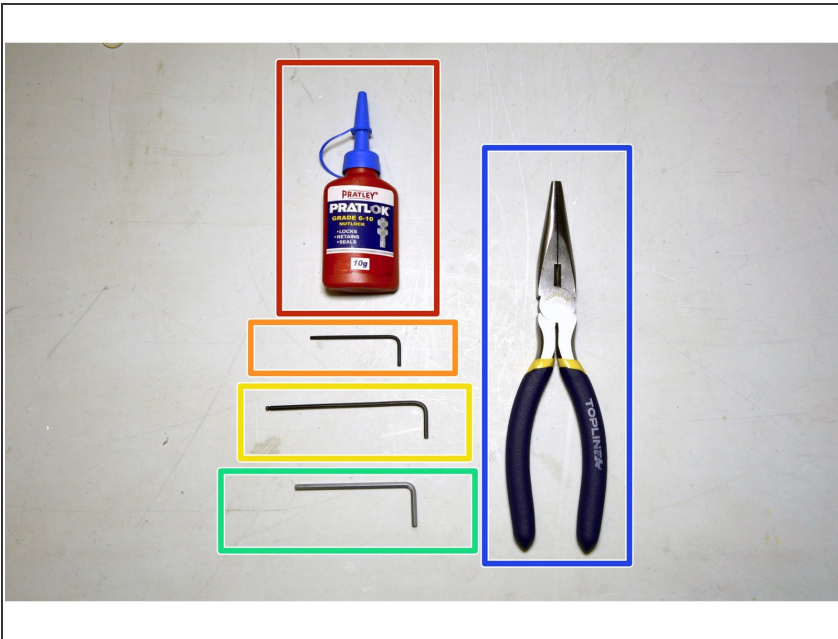
Step 1 — Parts Required: 1

- Z-Axis Assembly
- Z-Motor Plate
- GT2 Pulley, 20 teeth, 5mm Bore
- Z-Motor
- GT2 closed loop timing belt, 140mm
- Nuts & Bolts (See next step)
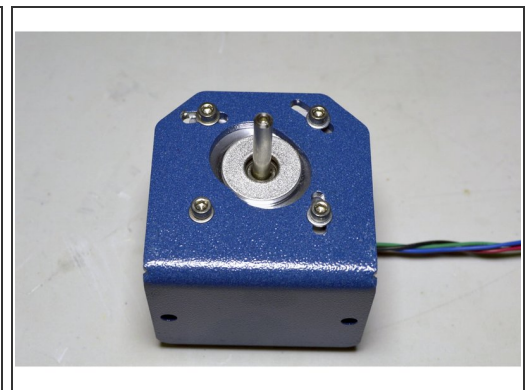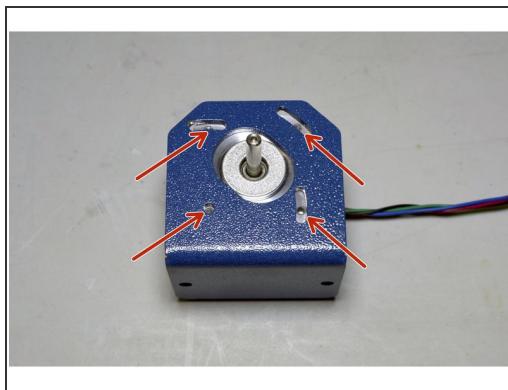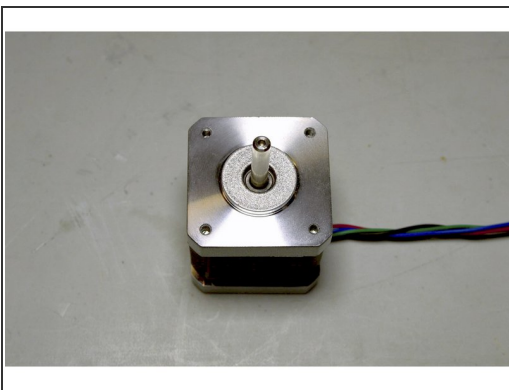
Step 2 — Parts Required: 2

- M4x16 Cap Screw (2 Pcs)
- M4 Lock Nut (2 Pcs)
- M4 Washers (4 Pcs)
- M3x8 Cap Screw (4 Pcs)
- M3 Washer (4 Pcs)

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Step 3 — Tools required

- ● Pratley Pratlock
- ● 2mm Allen Key
- ● 2.5mm Allen Key
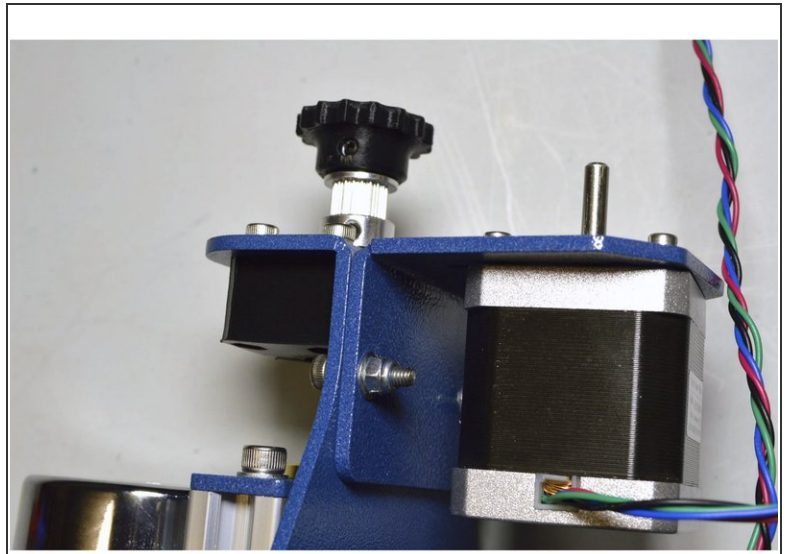- ● 3mm Allen Key
- ● Sharp Nose Pliers

Step 4

- ● Place the Z-Motor with the cable to the right
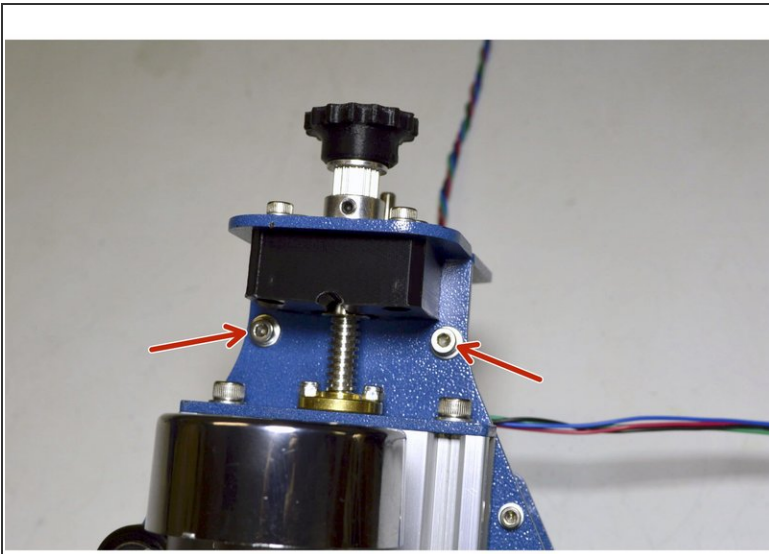
- ● Place the Z-Motor Plate on top of the Z-Motor as indicated

- ● Mount the motor to the plate with the M3x8 Cap Screws (4 Pcs), M3 Washers (4 Pcs) and Pratley Pratlock
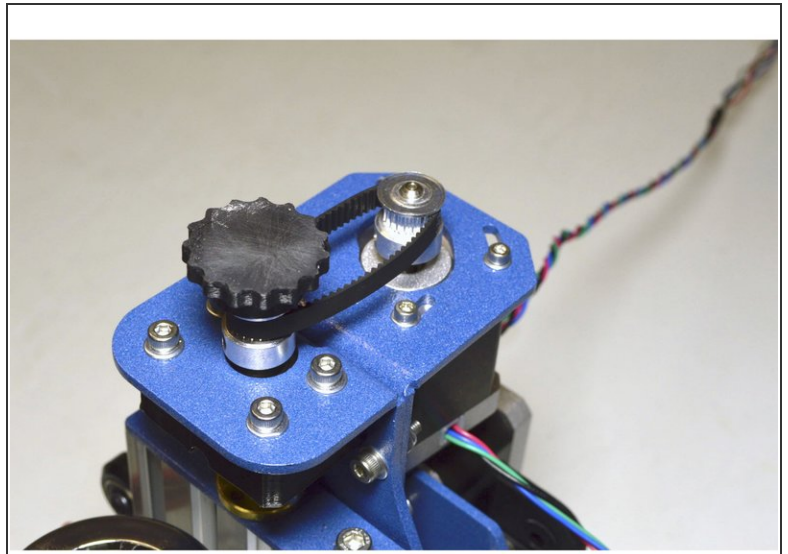
- ⚠ Only hand tighten these screws

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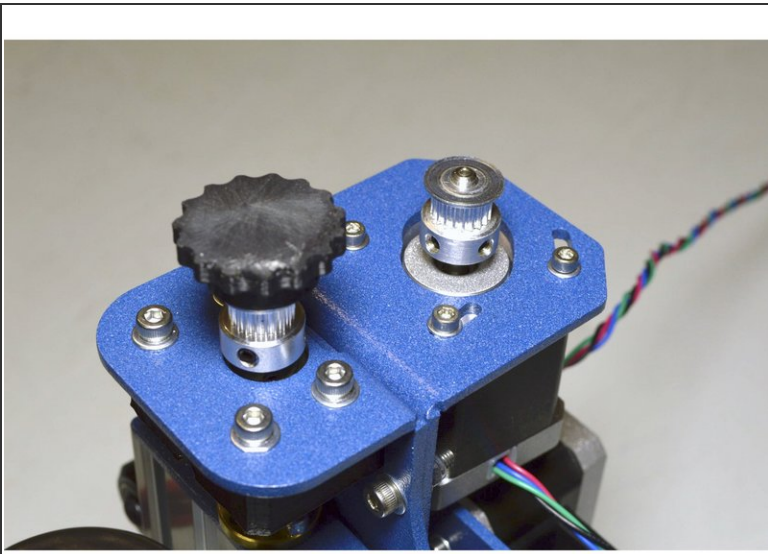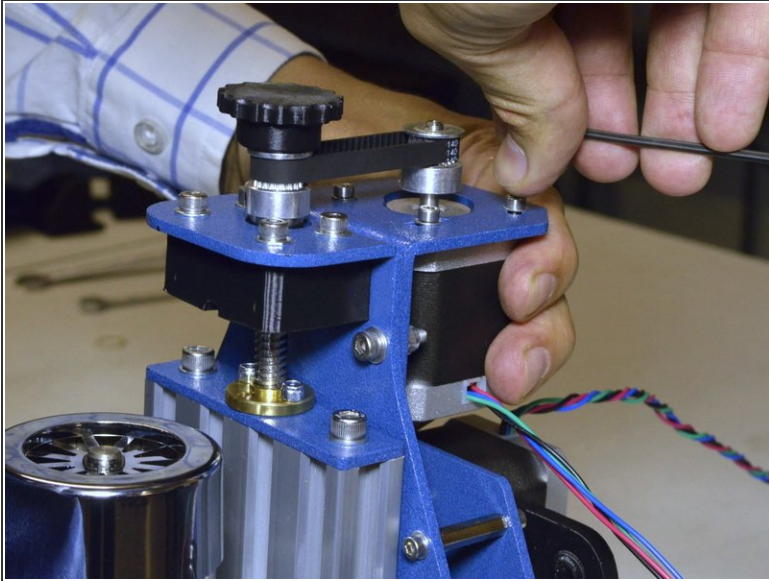
Step 5 — Mount Z-Plate

- Mount the Z-Plate to the Z-Axis Assembly with the M4x16 Cap Screws (2 Pcs), M4 Washers (4 Pcs), M4 Lock nuts (2 Pcs)

- Place the washers on both sides of the plates as shown

- Tighten the screws with the 3mm Allen Key and the Sharp Nose Pliers

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Step 6 — Mount GT2 Pulley

- Mount the GT2 Pulley to the Z-Motor shaft

- Make sure the height of the pulley is aligned with the pulley on the lead screw

- Add Pratley Pratlock to the grub screws and tighten the with the 1.5mm Allen Key

- Loop the timing belt over the pulleys by turning the Z-knob while pushing the belt over the Z-motor pulley

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Step 7 — Tighten GT2 Belt

- Tighten the GT2 belt by pulling the motor with the one hand while tightening the M3x8 screws with the other hand

- Make sure the Z-axis can still turn easily

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