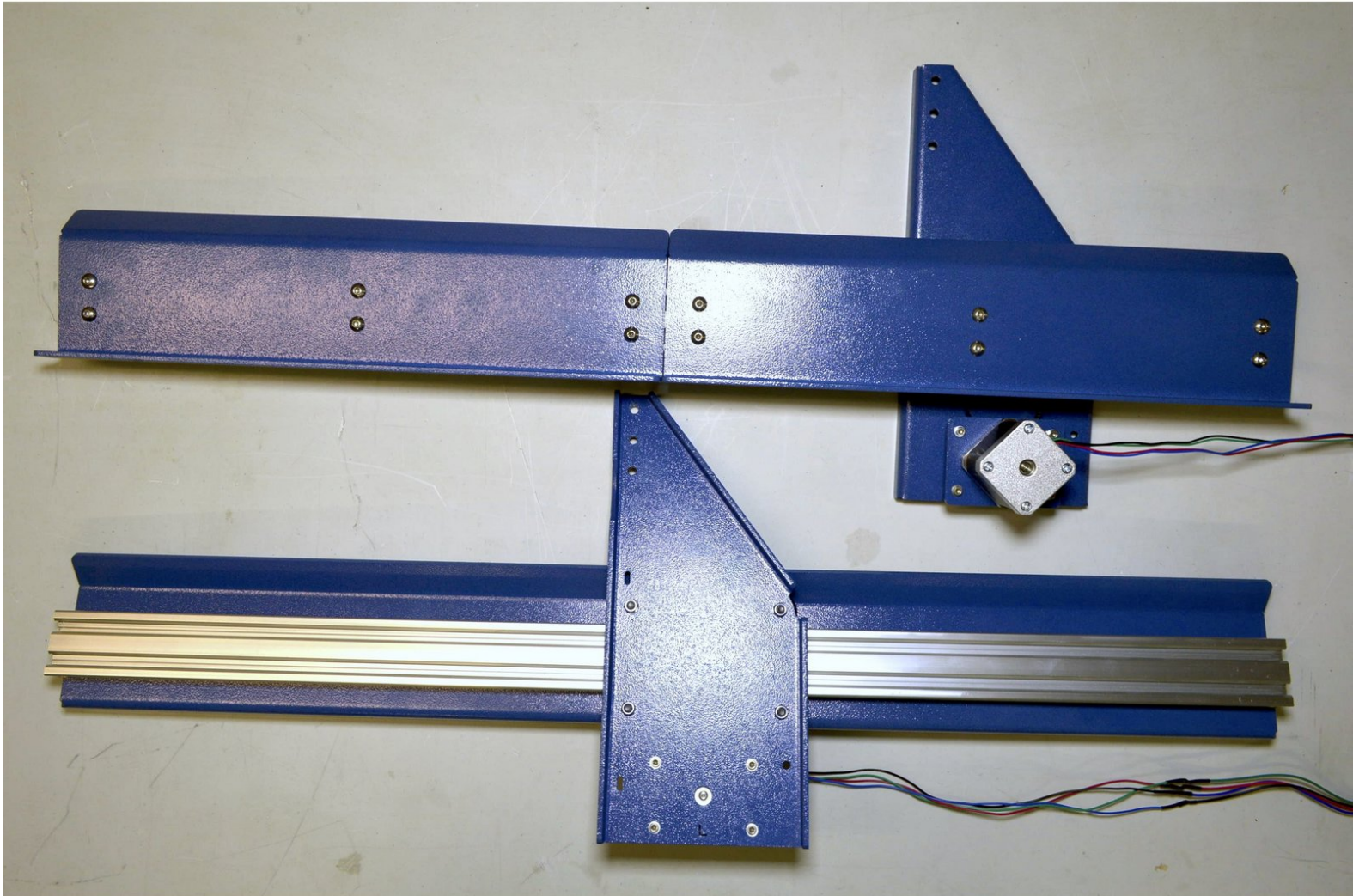


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## 04. Mounting Y-Rails

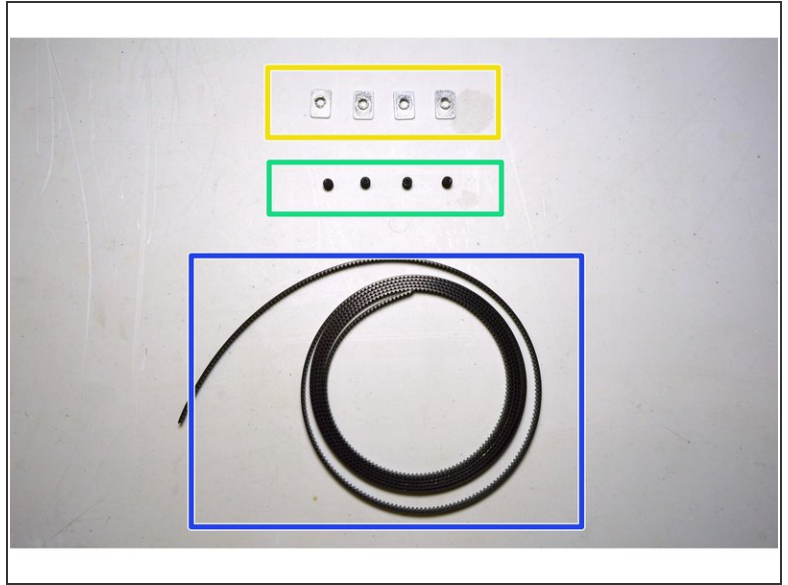
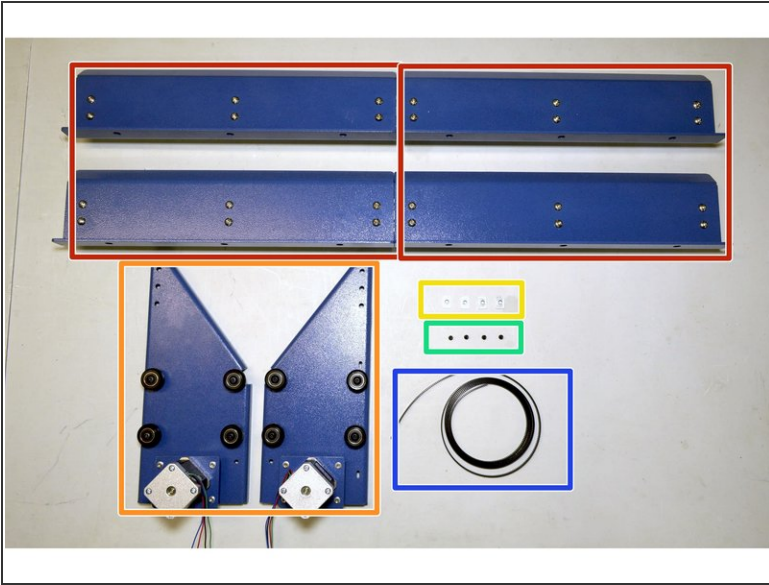
Written By: Paul Cronje



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# INTRODUCTION

## Step 1 — Parts required



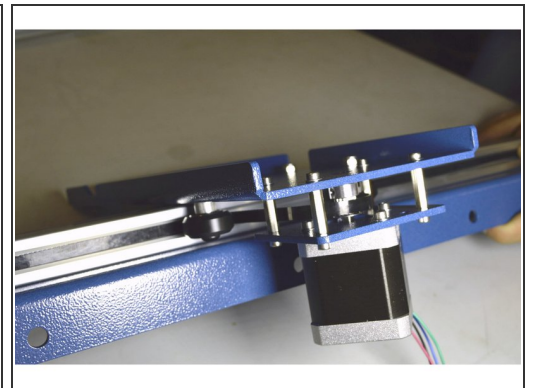
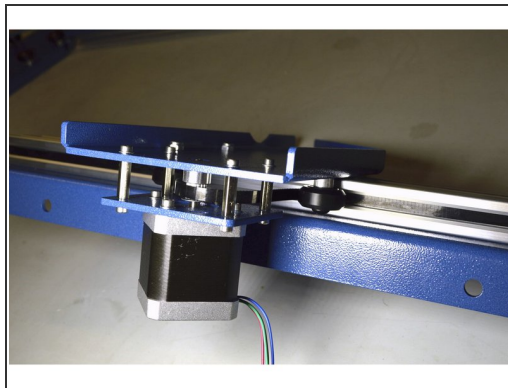
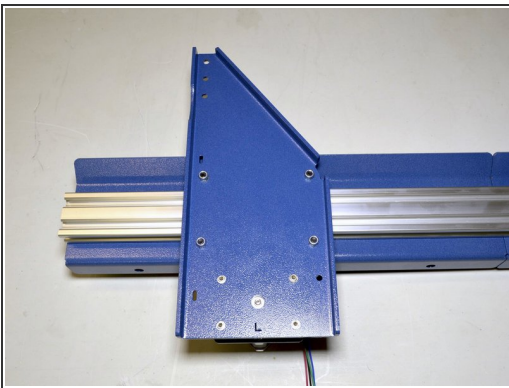
- Side cover assembly (2 Pcs)
- Y-Rail motor assembly (2 Pcs)
- M5 plate nuts (4 Pcs)
- M5x6 Grub Screw (4 Pcs)
- GT2 Timing Belt

## Step 2 — Tools required



- 2.5mm Allen Key
- Pratley Pratlock
- Side Cutter

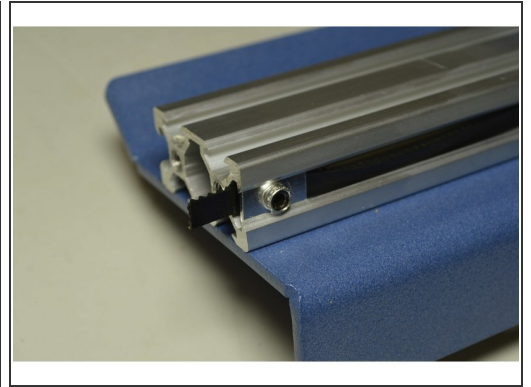
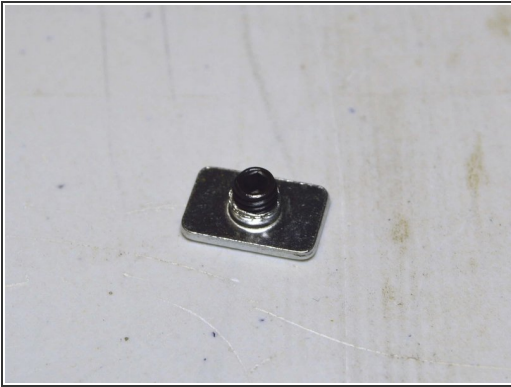
## Step 3 — Slide Y-Rail onto V-Slot



- Slide the Y-Rail assembly onto the Side plate assembly as shown
- Feed the GT2 Belt below the V-wheel, over the pulley and below the V-wheel on the other side

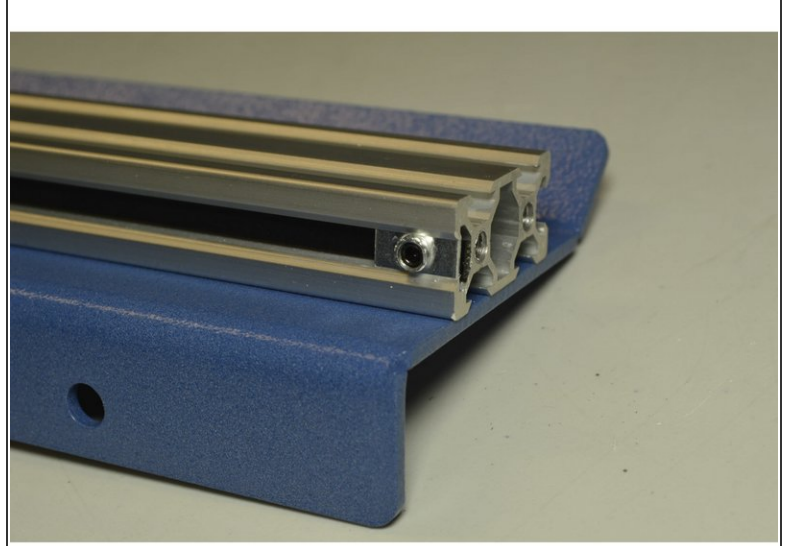
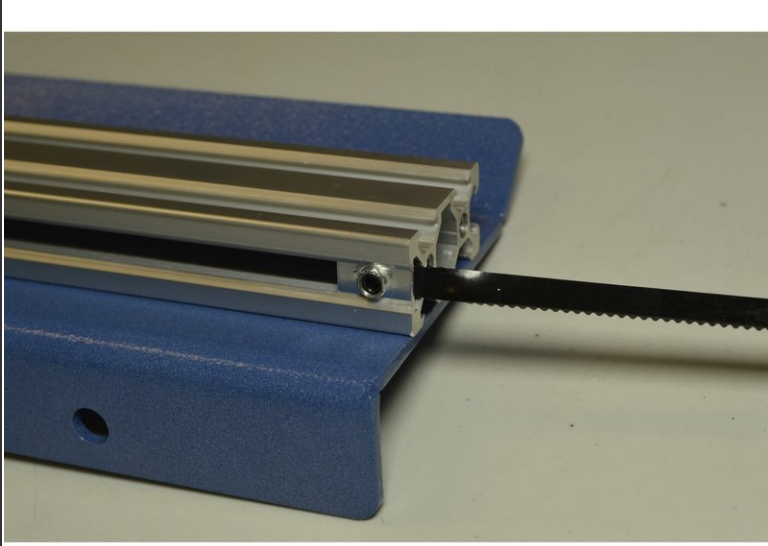


## Step 4 — Fix the one side of the belt



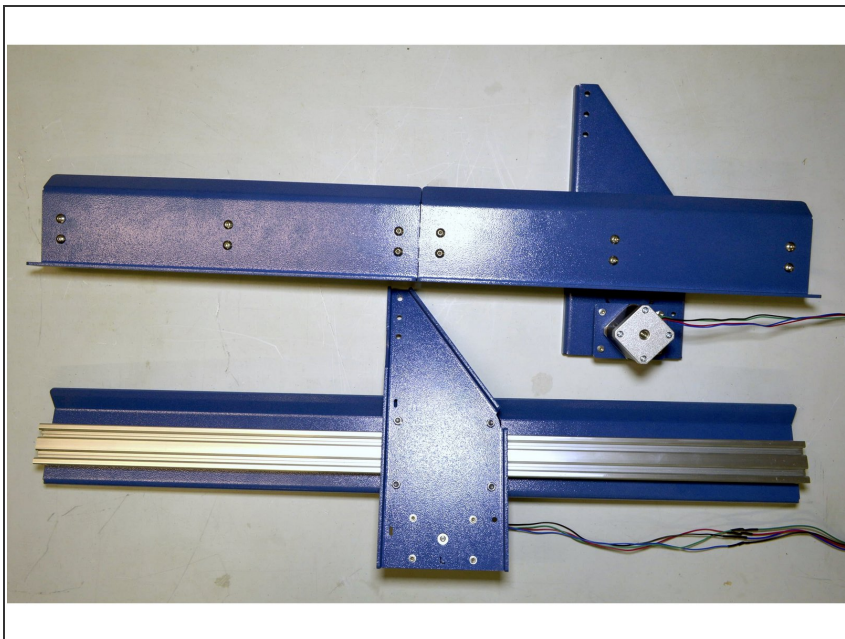
- Add Pratley Pratlock to the M5x6 grub screw and Insert it into the M5 plate nut
- Slide the M5 plate nut over the belt into the V-Slot
- Clamp the end of the belt by screwing down the M5 grub screw with the 2.5mm Allen Key while pulling the end of the belt

## Step 5 — Fix the other side of the belt



- Repeat Step 4 for the other side of the belt
- Pull the belt with the one hand, while fastening the grub screw with the other hand. Else, ask someone else to pull the belt while you tighten the Grub screw.
- Cut the belt off on both sides with a side cutter so that it is flush with the V-Slot profile
- The off cut of the belt will be used later on

## Step 6 — Repeat for the other side



- Repeat steps 3 to 5 for the other side as well
- Check if the pulleys on the motor shafts are inline with the GT2 belt

Use a brush to dust off aluminium swarf in the extrusion