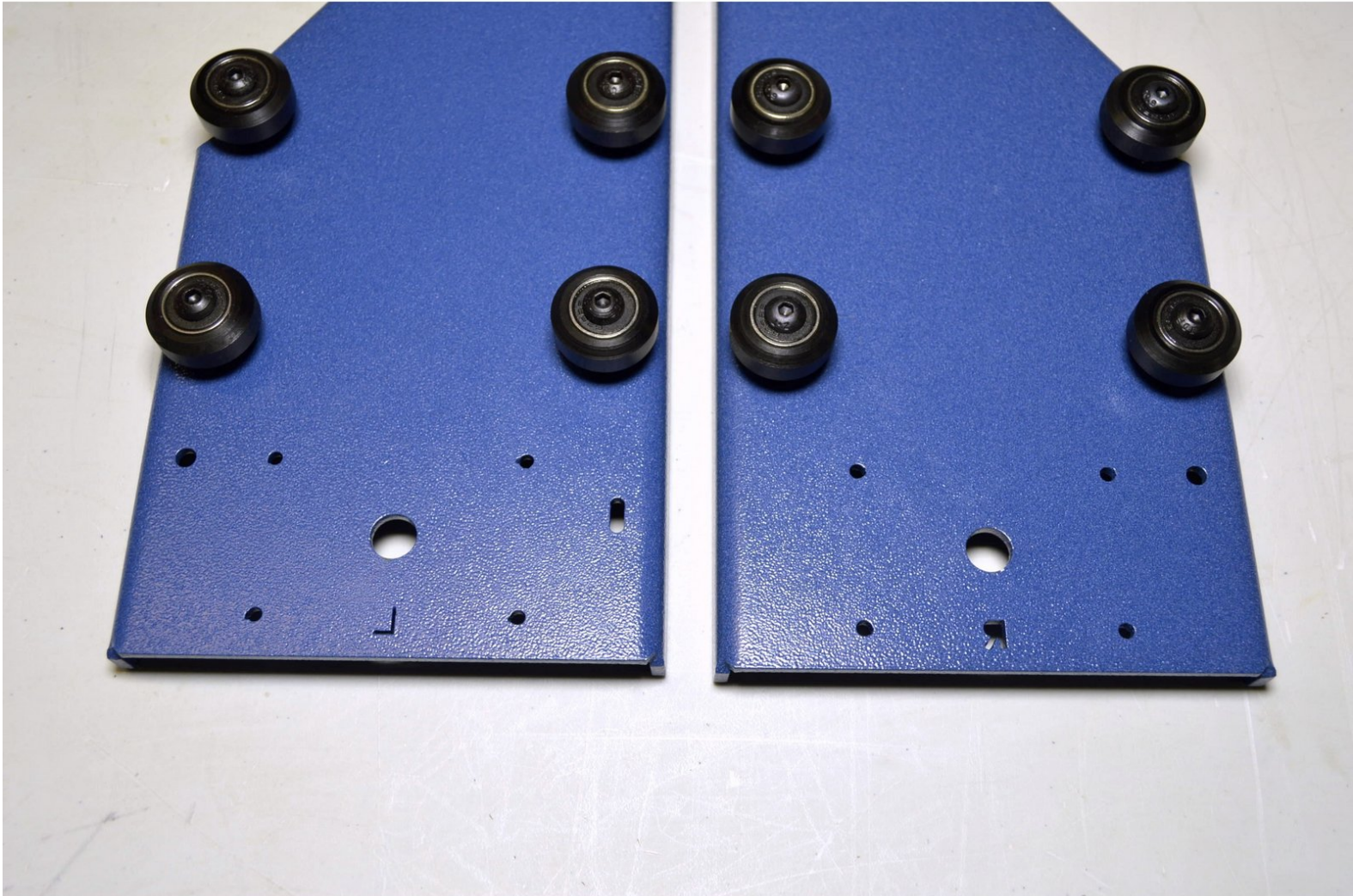


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01. Y-axis Wheel Assembly

Written By: Paul Cronje



INTRODUCTION



TOOLS:

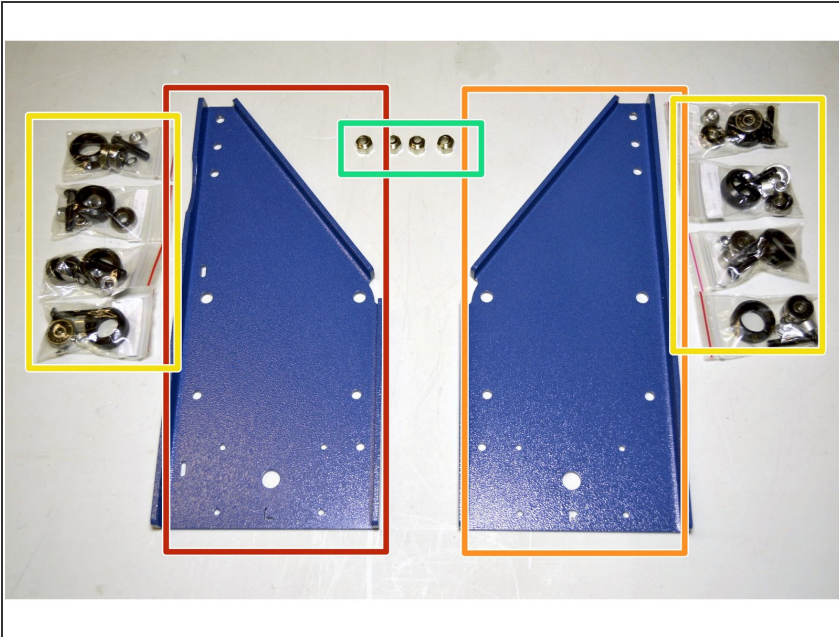
- 3mm Allen Key (1)
- No. 8 spanner (1)
- No. 10 spanner (1)



PARTS:

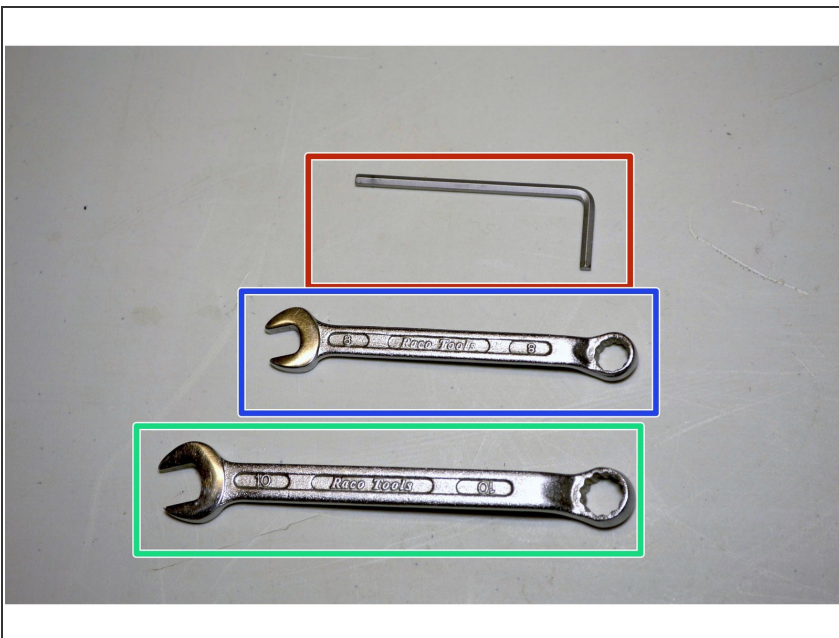
- V-Wheel Kit (8)
- Delrin
- Left Y-Carriage Plate (1)
 - Right Y-Carriage Plate (1)
 - Eccentric nut (4)

Step 1 — Parts Required



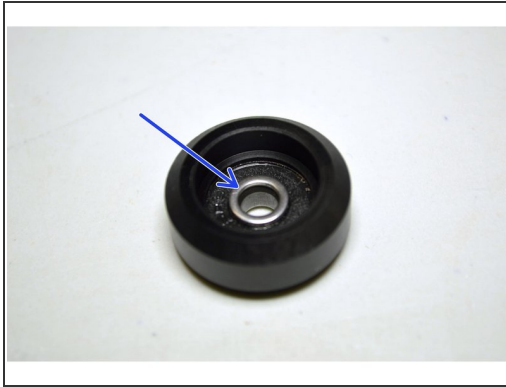
- Left Y-carriage plate
- Right Y-carriage plate
- V-Wheel Kit (8 Pcs)
- Eccentric Nut (4 Pcs)

Step 2 — Tools Required



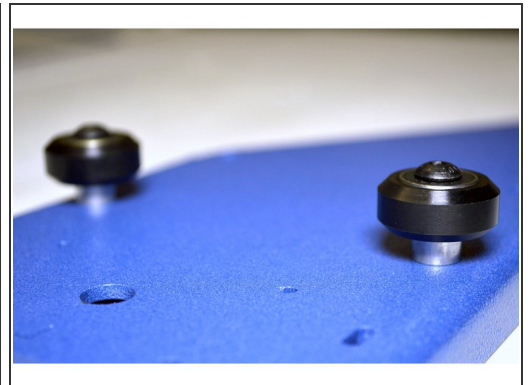
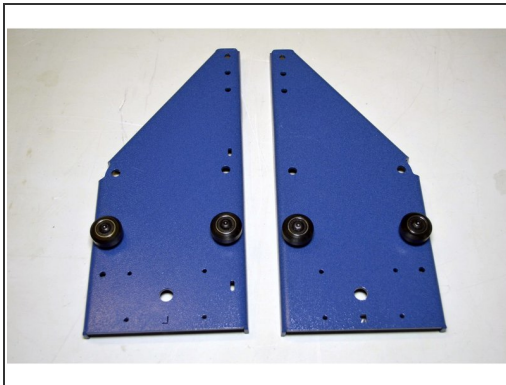
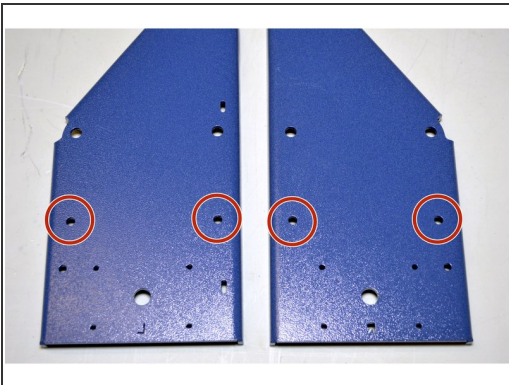
- 3mm Allen Key
- No. 8 Spanner
- No. 10 Spanner

Step 3 — Assemble V-Wheel kit



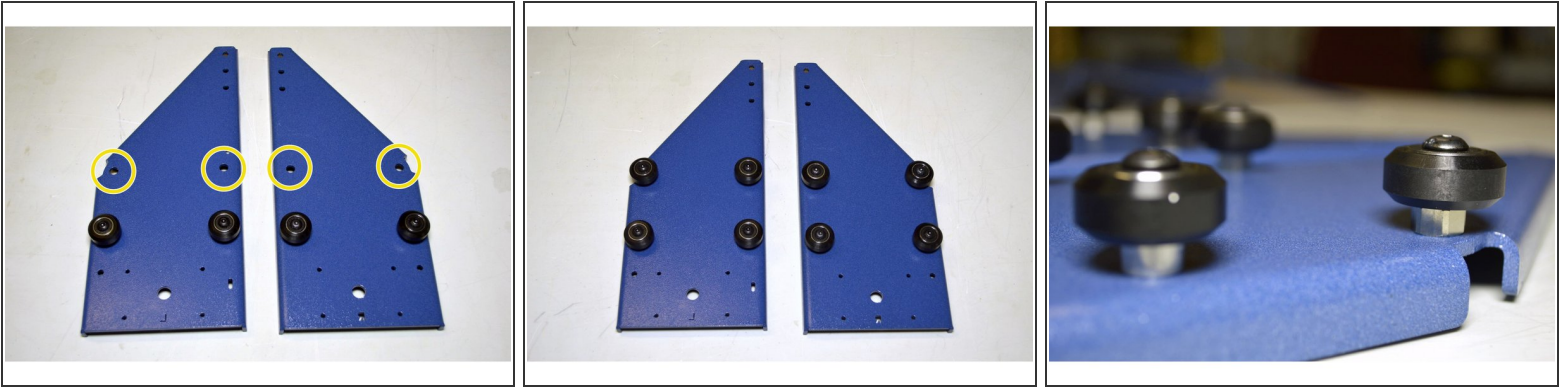
- Press the bearing into the delrin V-wheel
- Place the washer into the centre of the V-wheel
- Press the second bearing into the other side of the V-Wheel
- Insert the M5x35 screw through the bearings

Step 4 — Mount the fixed V-Wheels



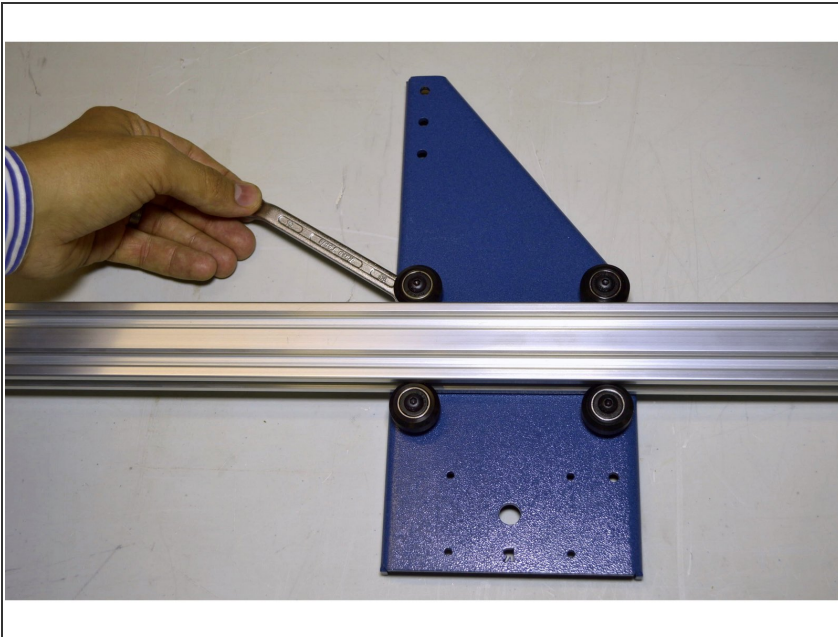
- Mount 4 V-wheels to the holes circled in RED with the spacers and locknuts in the V-wheel kits
- Make sure the V-wheels can turn easily

Step 5 — Mount the floating V-Wheels



- Mount 4 V-wheels to the holes circled in YELLOW with the eccentric nuts instead of the aluminium spacers.
- Make sure the notch on the eccentric nut faces away from the fixed V-wheel
- Check if the V-wheels can turn easily

Step 6 — Set preload of Y-carriage



- Slide the 20x40 V-slot profile in between the V-wheels
- Turn the eccentric nuts with the No.10 spanner to eliminate the play between the V-wheels and the aluminium profile
- Ensure the V-wheels are still fastened and can turn easily
- Remove the aluminium profile

35 minutes