Rat Rig

00. Preparations

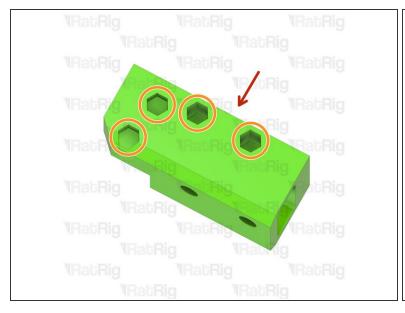
Written By: Simon Davie

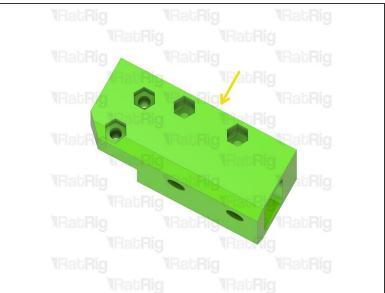


INTRODUCTION

[video: https://youtu.be/eO3UwlSix2M]

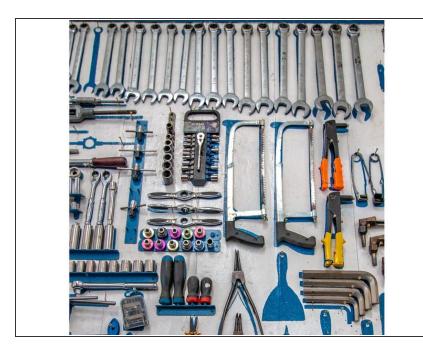
Step 1 — Prepare the printed parts





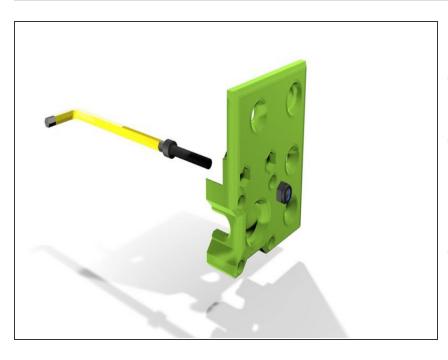
- (i) One of the V-Minion printed parts has sacrificial layers which must be removed prior to assembly.
- it is recommended to remove them by using a screwdriver, an Allen key, or a drill, to push through the layers. This clears the holes for the screws.
- y_belt_mount printed part
- Sacrificial layers to be cleared
- Prepared printed part

Step 2 — Recommended tools



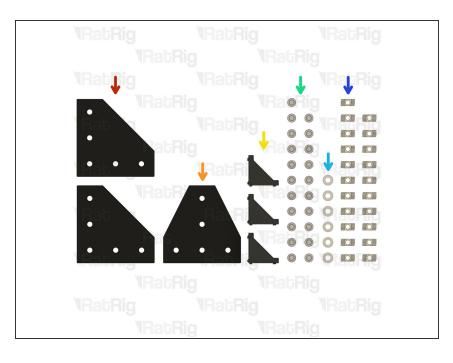
- it is recommended to have the following tools for use during the V-Minion assembly
- Allen Key / Hex Wrenches in the following sizes: 2.5mm, 3mm, 4mm, 5mm & 6mm
- 8mm Spanner / Wrench
- Wire cutters & a wire stripper
- Tape measure or calipers
- Crimping tool
- Cross slot / Philips screwdriver
- Flat / straight screwdriver

Step 3 — Installing hex nuts into printed parts



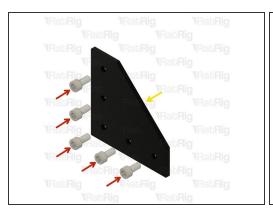
- Occasionally you will need to install a hex nut into a printed part
- into the printed part to ensure there are no issues with assembly or cross threading
- This animation shows how to use a cap head screw to pull a hex nut into a printed part

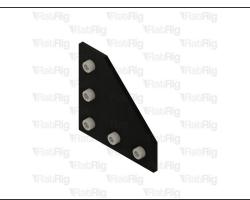
Step 4 — Prepare the parts for the brackets

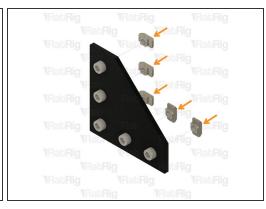


- 2x Corner Plate
- 1x T-Shape Joining Plate
- 3x 90 Degree Corner
- 21x M6x12 Cap Head Screw
- 6x M6 Washer
- 21x 3030 Drop-in T-Nut M6

Step 5 — Assemble the corner plates (x2)

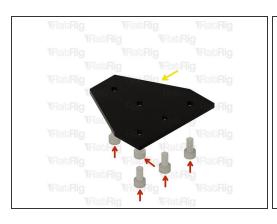


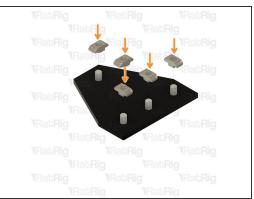




- M6x12 Cap Head Screw
- 3030 Drop In T-Nut M6
- Joining Plate for 3030
- (i) Loosely thread the 3030 T-Nuts onto the M6x12 screws. Do not tighten them at this point.

Step 6 — Assemble the T-shape joining plate

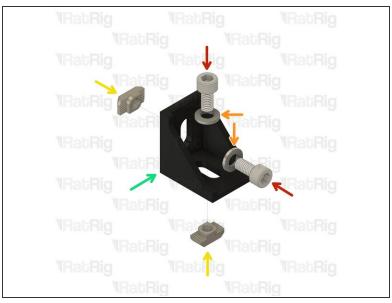






- M6x12 Cap Head Screw
- 3030 Drop In T-Nut M6
- T-Shape Joining Plate for 3030
- (i) Loosely thread the 3030 T-Nuts onto the M6x12 screws. Do not tighten them at this point.

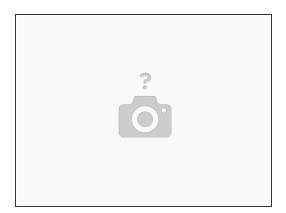
Step 7 — Assemble the 90 degree corners (x3)





- M6x12 Cap Head Screw
- M6 Washer
- 3030 Drop-in T-Nut M6
- Cast 90 Degree Corner Bracket for 3030
- (i) Loosely thread the 3030 T-Nuts onto the M6x12 screws. Do not tighten them at this point.

Step 8 — Next guide



(i) Continue with the next guide: 01. Frame Assembly