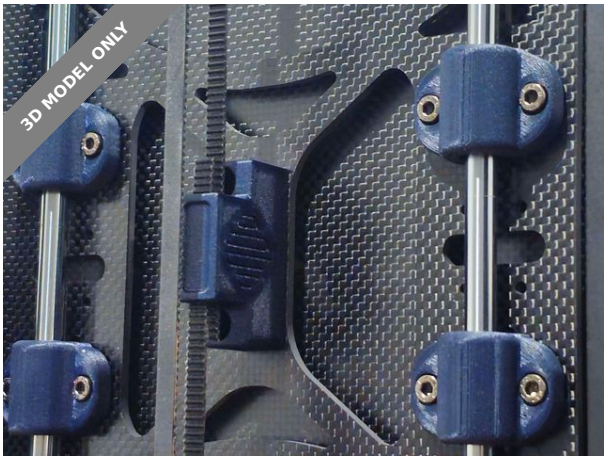


Sovol SV-06 Reinforced Y-Axis Components (+7mm Elevation) [LM8UU Set]

CWTechnology

VIEW IN BROWSER

updated 1. 4. 2024 | published 1. 4. 2024

Summary

CWT Designed Direct Swap Y-Axis components. LM8UU Only (Motor Swaps and Replacements)

3D Printers > Other Printer Parts & Upgrades

Tags: replacement lm8uu direct carbonfiber elevation swap sovol 48mm sv06 sovolsv06

Designed to fit the Sovol SV06 platform to elevate and strengthen original injection molded parts.

This set stiffens and tightens the rod tolerance as well as offer a more refined version of the original parts.

This elevates the build surface by approximately 7/10mm and fits with original screws.
• Print Rod Mounts with organic supports enabled. I recommend printing with Logo side up. For optimal results, paint the rod backing portion with supports.
• Print Bearing Brackets with round part up.

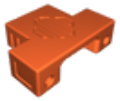
• Print Belt Guide with Logo side down.
• Print with 4-5(5) walls and 5+5 top and bottom. Infill recommended at 40% +
We recommend a minimum of PETG but preferably ABS/ASA.
PLA is not recommended due to temperature as well as the possible splitting of the rod mounts. For tolerance the rods should be impacted into place to install.
Designed to be used with CWT's Carbon Fiber Carriage. Will work without carriage as well.
Have been using these for the past 2 weeks under the CF Carriage at 80C bed temps and has run multiple 6m BSOs with no issues so far. (PETG)
Updated 01/24/24
- Increased CWT Belt Guide Screw Depth (-1.5mm)
- Tested Y-Axis Set in PETG @ 425mm/s^2 Travel & 55,000mm/s^2 Acceleration
• Works perfectly with no signs of deterioration
Updated 03/31/24
- Uploaded experimental 48mm Offset Y-Axis components with 10mm elevation vs original 7mm
- UPDATE : Tested Original 7mm Elevation Y-Axis Set in CF ASA @ 550mm/s^2 Travel & 100,000mm/s^2 Acceleration
• Works perfectly with even less sign of deterioration

This remix is based on

GitHub - Sovol3d/SV06-Fully-Open-Source: The fully open source for the SV06 Includes the stl file and step files for the SV06. The firmware souce code is in another link, please check sovol3d repository here

Model files

Y-Axis Set (+10mm Elevation) [LM8UU] 2 files



cwt-sv06-belt-guide-bracket-48mm-motor-offset.stl

EXPERIMENTAL

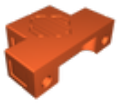
cwt-sv06-guide-rod-holder-y-axis-48mm-motor-offset.stl

EXPERIMENTAL (NEEDS SUPPORTS)

Y-Axis Set (+7mm Elevation) [LM8UU] 3 files

cwt-sv06-bearing-bracket.stl

cwt-sv06-guide-rod-holder-y-axis.stl



cwt-sv06-belt-guide-bracket.stl

Updated 01/24/24 (Reduced screw slot height [Increased depth of original screw])

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