



2020 Y upgrade for Wanhao Duplicator i3, Cocoon Create, Maker Select, and Malyan M150 i3 3D printers.

 Delukart

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Summary

This is a upgrade mod to eliminate the front and back y-frame plates along with the cheap idler bracket and wimpy...

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Tags: [clone](#) [wanhaoduplicatori3](#) [monopricemakersselect](#)
[cocooncreate](#) [zbrace](#) [backzbrace](#)

This is a upgrade mod to eliminate the front and back y-frame plates along with the cheap idler bracket and wimpy y-motor bracket.

This mod gives you stronger y motor bracket and a better idler tension .

Also changes the belt path to be perfectly aligned and closer to the bed.

And the y motor now sits outside of the frame area making it easier to align your belt.

there are 2 mod versions to choose from.

1 - azza z brace version with both types of feet.

2 - SWD2 rear mounted z brace.

I only uploaded the parts i modded and created.

The rest of the parts for the z braces can be found here:

azza z brace: <https://www.thingiverse.com/thing:921948>

SWD2 rear z brace: <https://www.thingiverse.com/thing:2391089>

B.O.M--

2020 Y frame upgrade Hardware needed:

2x-- 180mm 2020 extrusions

22x-- M5x6mm or M5x8mm

22x-- M5 tnut

5x-- M5x20mm (2 for belt guide-- 2 for bed belt bracket-- 1 for idle tensioner)

5x-- M5 nut (2 for belt guide-- 2 for bed belt bracket-- 1 for idle tensioner)

2x-- M4x10mm (for bed belt bracket) -- (M4x8mm should work for stock y plate)

2x-- M4 nut (for bed belt bracket)

1x-- 8mmx40mm rod (or cut 40mm off a M8 bolt)

1x-- M3x16mm (for idle tensioner)

1x-- M3 nut (for idle tensioner)

2x-- M3 set screws (to lock down the m8x40mm rod for idle tensioner)

4x-- set screws to lock down y rods (use original ones from your 3D printer)

4x-- M3x6mm (for Y stepper motor)

6x-- Ball Bearing 625 2RS 5x16x5 (4 for belt guide-- 2 for idle tensioner)

6x-- 1mm Precision Shim (4 for belt guide-- 2 for idle tensioner)

1x-- new GT2 belt (For new stepper motor position and belt routing)

How I Designed This

Quick vid of the mod

Category: 3D Printer Parts

Model files



l_front_swd2.stl



y_rod_ends.stl



lf_footforballs_azza.stl



r_front_swd2.stl



rfoot_insert_azza.stl



idle_tension_pully.stl



idler_base_v2.stl



lf_foot_azza.stl



lfoot_insert_azza.stl



lr_foot_azza.stl



rf_foot_azza.stl



y_motor_bracket.stl



r_back_swd2.stl



l_back_swd2.stl



rf_footforballs_azza.stl



rr_foot_azza.stl



print_bed_y_belt_holder.stl



idler_base.stl



belt_guide.stl

Other files



sources.txt

[Find source .stl files on Thingiverse.com](#)

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