

FLSUN I3 X-Carriage for Titan Aero

T Tailslide

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Summary

A carriage for the titan aero.. it mounts on the bottom instead of the top. I chose to flip my x axis upside down so...

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A carriage for the titan aero.. it mounts on the bottom instead of the top. I chose to flip my x axis upside down so that the belts would not get pulled at an angle to the carriage.. this is probably an optional step.

IMPORTANT!! You must reduce the voltage on your pancake stepper or it will get so hot as to warp the carriage. Don't ask me how I know :(I am using the smallest stepper (20mm deep) and reduced to 0.3v. Now it never gets hot to the touch only a bit warm. I think the smallest stepper is the best option since every gram counts and it is very light. However, if you are printing thick layers (0.4mm) you may want a bigger stepper with more torque.

Also, try adding a lock washer between the bearings and the plastic tube spacers.. if you can find one small enough it will let you tighten the bolts as much as you want without causing rubbing between the bearing and the spacer.

Changes to the original (excellent) design include beefing up the parts on the carriage that warped when they got hot and reinforcing the belt holes since with ABS they seemed prone to breaking if you pulled hard on the

belt. I can't say enough good things about the original design, the ability to dial in the wheel pressure on the rail really makes all the difference.

Included is a remixed blower mount with tronxy sensor mount added. I'm not really happy with how this turned out, but it is functional. I have some ideas for a new one but they will wait for my new IR sensor to arrive.

UPDATE: Please see magnetically attached blower mount here: <https://www.thingiverse.com/thing:2765171>

UPDATE: Please see AUS3D IR sensor mount here: <https://www.thingiverse.com/thing:2765184>

Print Settings

Printer:

FLSUN I3D

Rafts:

No

Supports:

Yes

Resolution:

0.2mm

Infill:

90%

Notes:

If your printer is good at bridging you can probably get away without supports.

I made the slider opening 1mm oversized since I had some issues with my supports making the fit too tight. If it's too loose just wrap a little tape around it and poke a hole for the bolt. Category: 3D Printer Parts

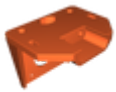
Model files



3_wheel_carriage_2020_-_carriage_slider.stl



hip-blower-tronxy-mount.stl



titan33-notop-tinymotor-triwheel.stl

Other files



sources.txt

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

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