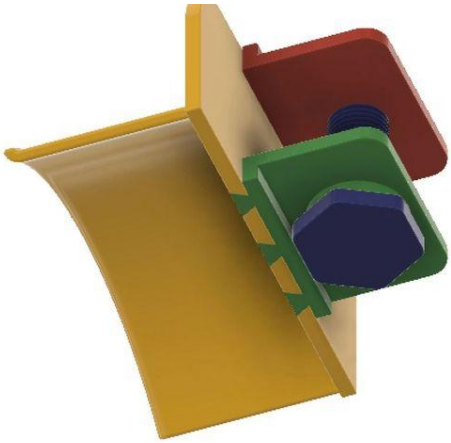


Screw on Headphone Stand - Slightly Over Engineered

MadP

VIEW IN BROWSER

updated 17. 5. 2022 | published 17. 5. 2022

Summary

This is a reworking of my previous Headphone Stand: https://www.thingiverse.com/thing:3355293 but slightly over...

5.30 hrs	4 pcs	0.20 mm	0.40 mm	PLA	41 g	Creality Ender-3

Gadgets > Audio

Tags: headphones headphoneholder headphonehanger

This is a reworking of my previous Headphone Stand:

https://www.thingiverse.com/thing:3355293

but slightly over engineered. The simple mortice joints have been replaced with dovetail joints. These will have to be printed with supports to be accurately printed.

I designed this headphone stand to fix ON the edge of a table, be able to hold your headphones without taking up any table space.

IMPORTANT NOTES: The nature of PLA makes this design bend and warp over time - there's not really much you can do about this. If you can print it in PETG you will have a stand that will last forever (practically). You can also print this with a 0.8mm nozzle, which will cut your print time down to a fraction of the time.

Note, the screw is designed to simply fix the stand to the table, so almost no pressure is needed on the screw - in fact you would damage the structure of the stand by clamping it too tight.

The design should be suitable for any headphone - mine happily hold a pair of Audio-Technicas and a Sennheiser HD600.

EDIT: This design works AMAZINGLY well, if you stick a little rubber surfacing to the underside of the top support - the one that will touch the table top. PLA has a tendency to be very slippery when printed, so tightening the clamp didn't really stop it from moving. I bought some $1 rubber non slip material from a dollar store and stuck it on with some glue - with brilliant results

Print Settings

Printer Brand:

Creality

Printer:

Ender 3

Rafts:

Doesn't Matter

Supports:

Yes

Resolution:

0.4mm

Infill:

15%

Filament: 3D Print PLA Black Post-Printing ==========

Tolerances

Depending on your print settings, the tolerances of the dovetail joints will be tight - or too tight. Some light de-burring and filing will take care of this.

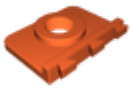
At first I designed this to require no glue and slot together and stay together. The nature of PLA means that these joints will very quickly open up too much to hold together. I joined mine with superglue and it's solid as a rock now.

The screw will happily fit into the threaded hole, but you'll need to slowly run the bolt through the nut a few times to loosen up the threads.

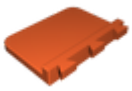
Category: Audio

Model files

headphonestandbase.stl



headphonebottomsupport.stl



headphonestandtopsupport.stl

headphonestandscrew.stl

Print files

headphonestandscrew.gcode

PLA 0.40 mm 0.20 mm 0.80 hrs 5 g

headphonestandtopsupport.gcode

PLA 0.40 mm 0.20 mm 0.70 hrs 6 g

headphonebottomsupport.gcode

PLA 0.40 mm 0.20 mm 0.60 hrs 6 g

headphonestandbase.gcode

PLA 0.40 mm 0.20 mm 3.20 hrs 24 g

Find source .stl files on Thingiverse.com

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