



Maker Space 307 Razor Knife

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Summary

Simple reusable razor knife.

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Are you setting up a Maker Space? Why buy tools when you can make many common tools using your new digital fabrication tools? I am actively involved in my local makerspace (www.makerspace307.org), and I know how quickly costs can add up when you are outfitting your space.

This is a simple, inexpensive knife you can make using a 3D printer. The total cost is under \$0.50 using filament that costs around \$22.00/KG and Stanley classic utility blades (No. 1992).

I have designed the file for printing in PLA. If you print this in another material or use a different brand of the blade, please let me know how it worked.

Special note: The blade cover is designed for printing with a 0.40mm nozzle/extrusion width. If you have a different width, you may have difficulty.

Designed with Fusion 360.

Instructions

-Print either version of the knife body in the orientation as shown in the preview (55 degrees Y rotation). I have already taken care of this in the "Oriented_Razor_Knife.stl" file. Supports are only needed "from the build plate" in this orientation. You just want to ensure no supports are printed inside the blade pocket. I print my knives at 0.3 mm layer height

-Print several of the pins and pick the best-looking one. Make sure they are oriented vertically.

-Slide a blade into the slot at the end of the body, then insert the pin through the pinhole, securing the blade. When the blade is dull, remove the pin and replace the blade.

Originally posted on Thingiverse.

Model files



ms307_razor_knife.stl



razorknifebladeguard.stl



oriented_razor_knife.stl



razor_knife_pin2.stl



blank_razor_knife.stl

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