## **Stenokey Key Tops Readme**

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DO NOT PRINT ALL OF THE FILES IN THIS DIRECTORY!

Avoid printing single keys! Try to print at least two keys at a time to avoid over heating and distortion of the key stems. Always print with the printer's cooling fan enabled above the first layer.

A standard steno keyboard consists of 10 sets of 3 consonant keys and a set of 4 vowel keys. This can be obtained by printing 10 copies of the files that are named with a "Finger" prefix (in any workable combination) plus the Vowels file. Note that some combinations of wide and double wide keys cannot be fit next to each other on the keyboard.

## **Print Instructions**

The Stenokey key tops were printed successfully under the following conditions:

Nozzle: 0.4 mm Layer: 0.2 mm

Filament: PLA, modified

Extruder: Follow filament manufacturer's temperature recommendation.

Heated bed: 50° to 60° C

Interior: 50% infill

Exterior: 100% infill, 0.8 mm thick (4 layers) top and bottom, double shell (0.8 mm)

No Raft

Allow plenty of room between rows of key tops when printing parts without extensions. It may be almost impossible to remove the parts otherwise. Allow the bed to cool below the filament's glass temperature before removing parts to avoid bending and ruining them.

Once printed, the keys should fit snugly into the plungers of the Matias key switches, so that they don't fall out. If you have difficulty inserting a key into a key switch, use a fingernail file on the key stem to reduce its size. Usually a couple of swipes of a file on each face of the key stem is sufficient.

## **Directory Contents**

File naming convention:

• "Vowels" -- This file contains 4 narrow vowel keys.

- "Finger" -- All of these files contain 3 consonant keys, upper, middle and lower.
- "Key" -- All of these files contain a single key only.
- "Narrow" -- The key or keys in these files are the standard key width.
- "Double" -- The key or keys in these files have extra width on both the left and the right.
- "WideLeft" -- The key or keys in these files have extra width on the left side.
- "WideRight" -- The key or keys in these files have extra width on the right side.
- "WideCenter" -- The key or keys in these files have their extra width split evenly on the left and the right.
- "Extended" -- The key or keys in these files have extensions on their stems, so that they are raised up above the vowel keys.
- "Upper" -- The key in these files is used in the upper consonant row on the steno keyboard.
- "Middle" -- The key in these files is used in the middle consonant row on the steno keyboard.
- "Lower" -- The key in these files is used in the lower consonant row on the steno keyboard. Any of the lower keys (without extensions) can also be used as vowel keys.

The TestStand.stl file is provided to make it easier to check the fit of the key stems in a Matias key switch. You may need to scrape the inside edges of the opening in the test stand with a sharp knife to fit a key switch into the stand.