

# Stenokey Case Readme

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DO NOT PRINT ALL OF THE FILES IN THIS DIRECTORY!

The Stenokey case consists of a top, a base and a key matrix.

The case encloses the Stenokey circuit board. The base is affixed to the top by means of 8 M3 machine screws and 8 heat set inserts. The purpose of the key matrix is to support and align the key switches.

The case top is available in 4 variants, which allow for the USB cable to be plugged in from the left or the right, and for the interface elements (two options switches and a power LED) to be placed on the left or the right. Only one of the 4 case top variants need be printed, and the Stenokey circuit board must be populated with components to match the particular variant that is chosen.

The case base is available in 2 variants. The location of the interface components has no effect on the shape of the base so there are only variants which place the USB cable on the left or right. Only one of the case top variants need be printed, and it must match the case top variant chosen.

## Print Instructions

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The Stenokey case parts 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 the bed to cool below the filament's glass temperature before removing parts to avoid bending and ruining the parts.

## Directory Contents

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- "BaseUSBLeft.stl" -- This file contains the case base variant with the Teensy micro controller (and USB cable) on the left.
- "BaseUSBRight.stl" -- This file contains the case base variant with the Teensy micro controller (and USB

cable) on the right.

- "KeyMatrix.stl" -- This file contains the key support matrix.
- "TopIntLeftUSBLeft.stl" -- This file contains the case top variant which places both the interface elements and the Teensy micro controller (and USB cable) on the left.
- "TopIntRightUSBLeft.stl" -- This file contains the case top variant which places the interface elements on the right and the Teensy micro controller (and USB cable) on the left.
- "TopIntLeftUSBRight.stl" -- This file contains the case top variant which places the interface elements on the left and the Teensy micro controller (and USB cable) on the right.
- "TopIntRightUSBRight.stl" -- This file contains the case top variant which places both the interface elements and the Teensy micro controller (and USB cable) on the right.
- "LeadBender.stl" -- This file contains a simple lead bending jig which can be used to quickly bend the leads on the small axial components used on the Stenokey circuit board.