



Toy Guitar for Clone Hero



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Summary

Convert a child's toy to work on the PC game Clone Hero

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These are the parts I used to convert a child's toy to work for Clone Hero.

Hardware Required:

- Toy Guitar ([Walmart](#)) ([Amazon](#))
- These switches ([Amazon](#))
- USB Cable ([Amazon](#))
- Pico Pi
- Soldering tools and wire

Assumptions:

- You are familiar with [Ardwiino Guitar Configurator](#)
- You have a basic understanding of modifying Guitar Hero controllers for PC

Instructions:

- Open the guitar and cut out the existing fret PCB with the LEDs. My limited electronics skills was not able to follow the traces or determine how the buttons worked, so I replaced it entirely
- Print 8x of the “Switches” model. Pop each of them into the back of the colored fret buttons
- Now is a good time to change the order of the frets so they match the right order of colors
- Print 1x “Switch Holder”
- IMPORTANT: You need to file down the switches on all 4 edges quite a bit. The switches need to fit into the fret buttons. If you think you've filed or sanded enough, do it more. The more you file, the easier it will be to line everything up.
- Wire all of the fret buttons together for a daisy chained ground. Wire each other terminal to the micro controller
- I wired the top 5 buttons for frets, and then the bottom 3 for start, select, star power
- The raised edges of the “Switch Holder” face DOWN towards the frets
- For the strum, I hot glued 2 switches at the top and bottom, but I only wired one of each. I added 2 so the strummer had a little bit more spring to it. I didn't 3D print any parts here, I just found natural places for the switches to work inside of the body and covered them in hot glue.

Model files



switches.stl



switch-holder.stl

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