

WarBeast Arduino Kit Installation Guide

This guide will add a little more detail in terms of wiring and some other tips for installing your new kit, or if you are building from scratch with the gerber files and 3D models provided on my github. (releasing at a later date)

PLEASE READ THIS GUIDE CAREFULLY, AS THERE ARE A FEW IMPORTANT PARTS TO THE INSTALLATION PROCESS!

KIT INCLUDES:

- Mainboard with pre-installed pico and strum switches
- **D-pad start/select board** (Connects to plug coming from the mainboard)
- 3D printed strumbar (Optional, stock ALPS strumbar will fit)
- 10ft braided micro USB cable
- Two-piece 3D printed cable grommet (Replaces sync button housing)
- Cable ties for routing the USB cable/tidying excess wires

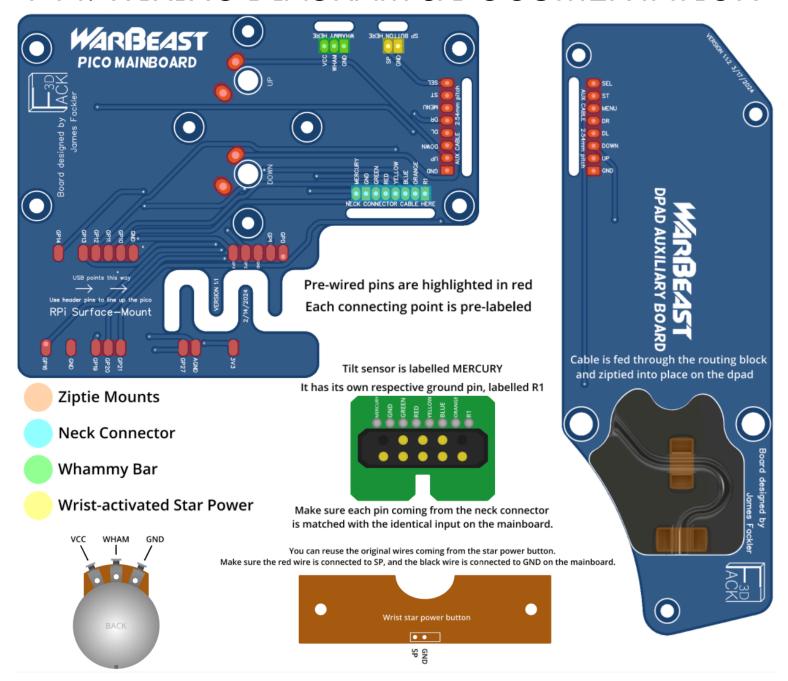
(USB cable exits through the sync button hole, so button + housing must be removed)

REQUIRED TOOLS:

- Basic soldering skills
- Soldering iron
- Wire strippers
- T-10 Torx for body screws and PH1 Phillips for internal screws

There are two versions of the WarBeast. One has micro switches, and one ALPS switches. Please check which version you have before installing. If you have the micro switch version, the strumbar might have to be slightly modified OR you can use the included replacement strumbar.

PT1: WIRING DIAGRAM & DOCUMENTATION



The slots in front of the solder pads are for strain relief. The cable should be woven through the slot in order to add extra reinforcement, and to prevent the cable from breaking at the solder joints if accidentally pulled. It's not completely necessary to do this, but it's there if you want it. The tone switch will be left out, as it's only used for Rock Band.

There are two variants of neck connectors I know about. If your connector is different from the one pictured, look for the pinout on the connector pcb or the original mainboard and connect the wires as they are labeled on your new mainboard.

PT2: INSTALLING THE STRUMBAR

If you are using the replacement strumbar included in your kit, be it your strumboard has microswitches or you just don't like the stock one, installation will be a breeze. Simply remove your old strumbar and the bushings, fit the bushings on your new strumbar, and insert your new strumbar into place. If the bushings don't rotate smoothly, you may have to sand or file a bit off of the underside of the pins. This strumbar is designed to fit perfectly without extra modification, so you most likely will not have this problem. Keep in mind you will have to set strum debounce in the firmware to prevent overstrumming, preferably anywhere from 17-20. Make sure combine strum debounce is also enabled, this is very easy to overlook.



PT3: PROGRAMMING YOUR GUITAR

Once everything is installed properly, it's time to program your guitar.

Download and run Sanjay900's Guitar Configurator to map all of your inputs. Link: https://github.com/Santroller/guitar-configurator/releases

Once you've mapped everything, test it in your five-fret game of choice. If everything works properly, congratulations, you're all done!

If you have issues with sustain dropping/flickering, I would suggest folding up a small piece of paper and wedging it into the neck slot as you're inserting the neck. I've found that since the neck is so long it tends to wiggle a bit, so this may fix that issue if it's happening to you. You can also hardwire the neck if you don't care about keeping it detachable.

Please contact me if you have any problems with your kit. Thank you, and enjoy your new and improved WarBeast!