

GuitarHero Integrated Pico PCB

Before you order READ ALL

1. **The buyer is financially responsible** for wrong PCB and PCBA order settings during ordering and **will not be compensated for a wrong order.**
2. The **buyer is expected to have advanced soldering capabilities** and will not be provided with a guide for soldering
3. The buyer recognizes that all guitars are different and **some guitars will require a permanent case modification for the PCB to fit.**
4. The **buyer is responsible for soldering the guitar's inputs** to the Pico PCB; the Integrated Pico **PCB is just a carrier board for switches and a Pi Pico** and will not be “Plug N Play” without additional soldering.
5. **The buyer is responsible for damaged components during soldering** and will not be reimbursed
6. **The buyer is responsible for DOA** or “Dead on Arrival” PCBs ordered through JLCPCB and will need to dispute their order with them.
7. The buyer acknowledges that **the given PCB files are ONLY for JLCPCB's Manufacturing.** Given files have not been tested through other manufacturers and therefore **SHOULD NOT** be ordered through them.
8. The Buyer acknowledges they will not get support if they don't use JLC PCBA

What these PCBs can be used in

1. *Guitar Hero WT/GH5 Guitars*
2. *Guitar Hero Les Paul style Guitars*
3. *Guitar Hero Kramer Guitars*
4. *Guitar hero Xplorer Guitars*
5. *Guitar hero Redoctane Wired PS2 SG Guitars*

What these PCBs WILL NOT FIT IN

1. ALL ROCK BAND GUITARS
2. PS2 Wireless "mayflash" style Guitars
3. Generic Guitar Knockoffs
4. A real guitar

COMMERCIAL USAGE

DO NOT SELL THE PCBs BY THEMSELVES

I won't stop usage of these boards and I certainly don't want them to be less accessible so I just kinda put them out there for the internet. The credit is on the PCB itself so if you're not down with that attribution I urge you to make your own PCB. It's a dying hobby so just don't be a dick really. If you sell these inside of a guitar I expect you to provide proper support to customers.

Contact info:

Snare01 on Discord

Feel free to message me about any questions or concerns.

No i will not put your logo on this

No i will not put your watermark on this

I work a day job so i may be slow responding

Please **Contact me on discord FIRST** for any issues regarding the board or programming

Many discords for guitar modding have a rule against asking for help for products that are sold etc.

HOW TO ORDER AND WHAT TO EXPECT

To order a PCB assembled simply go to <https://jlcpcb.com/> and upload the given “GuitarHero Pico Gerber” file into the given field on the front page

From there scroll down and select “PCB Assembly”



PCB Assembly

coupon

Free Assembly for your PCB order



Add gerber file

Now these next steps are super important DO NOT SKIP THEM

ENABLE TOP SIDE ASSEMBLY



Assemble top side

ENABLE TOOLING HOLES BY JLCPCB

Tooling holes



Added by JLCPCB

Claim a coupon for SMT
THEN CLICK NEXT

SMT

\$9.00

Details >

SMT Special Offer

For orders over \$0.01 excluding
freight

Valid until 2024/12/30

Get Coupon

NEXT

Next you will go through 4 tabs verifying the contents of your order
Page 1: PCB; Where you visually inspect the PCB to make sure that is the correct one without components* (IMAGE 1 on IMAGE PAGE BELOW)

Page 2: Bill of Materials; Upload the given BOM and CPL file to tell JLCPCBA where and what parts to place.

You will encounter a popup saying something like this. Hit continue and ignore it.

Error



The below parts won't be assembled due to data missing.

U7,U8,JP11,JP12 designators don't exist in the BOM file.

Re-upload file

Continue

The next BOM page will have prices and components listed, if there is a shortfall of a component please message me directly on discord @snare01 so i can find a suitable replacement part for you. If every part has a blue checkbox under the “selected” column you can continue to the next page. If you can find the suitable replacement yourself and solder it by hand you can deselect the parts and use “do not place”.

If you don't want to place those parts, just go ahead.

Do not place

On the next page this is where you visually inspect every single component that is placed on the PCB, this will take some time and I urge you to compare your PCB to Image 2 on the picture page below. This PCB is about \$45 so it's best to not just throw away money for something simple like this. Be careful dragging around with your mouse as you can freely move components around with the clicks. Every part that has a spot has a white “silkscreen” border around them. If you don't see anything in your 3D viewer there you should double check your BOM on the previous page or contact me.

The next page is saving to cart and there is no commitment to pay until you select the PCB and Assembly and “Secure Checkout”

IMAGES FOR REFERENCE

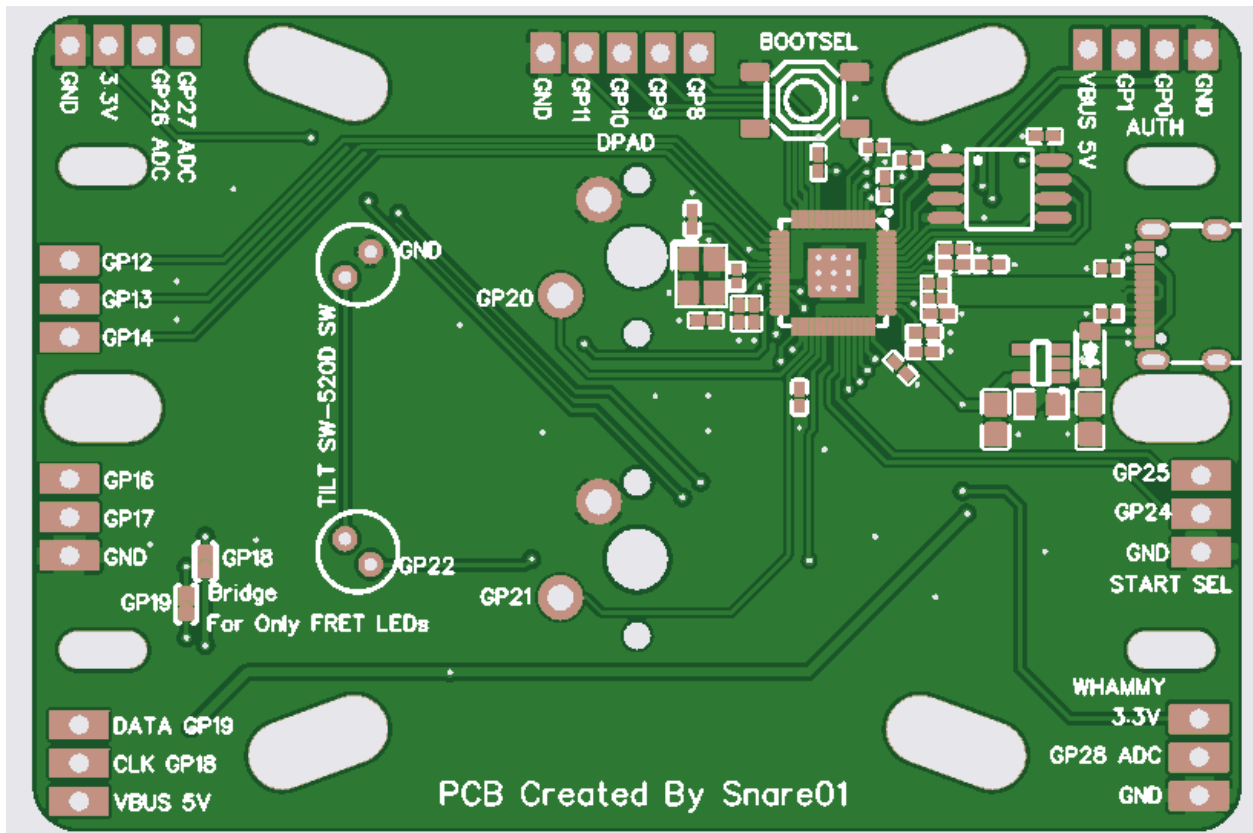


IMAGE 1: The Bare PCB visual inspect should look like this.

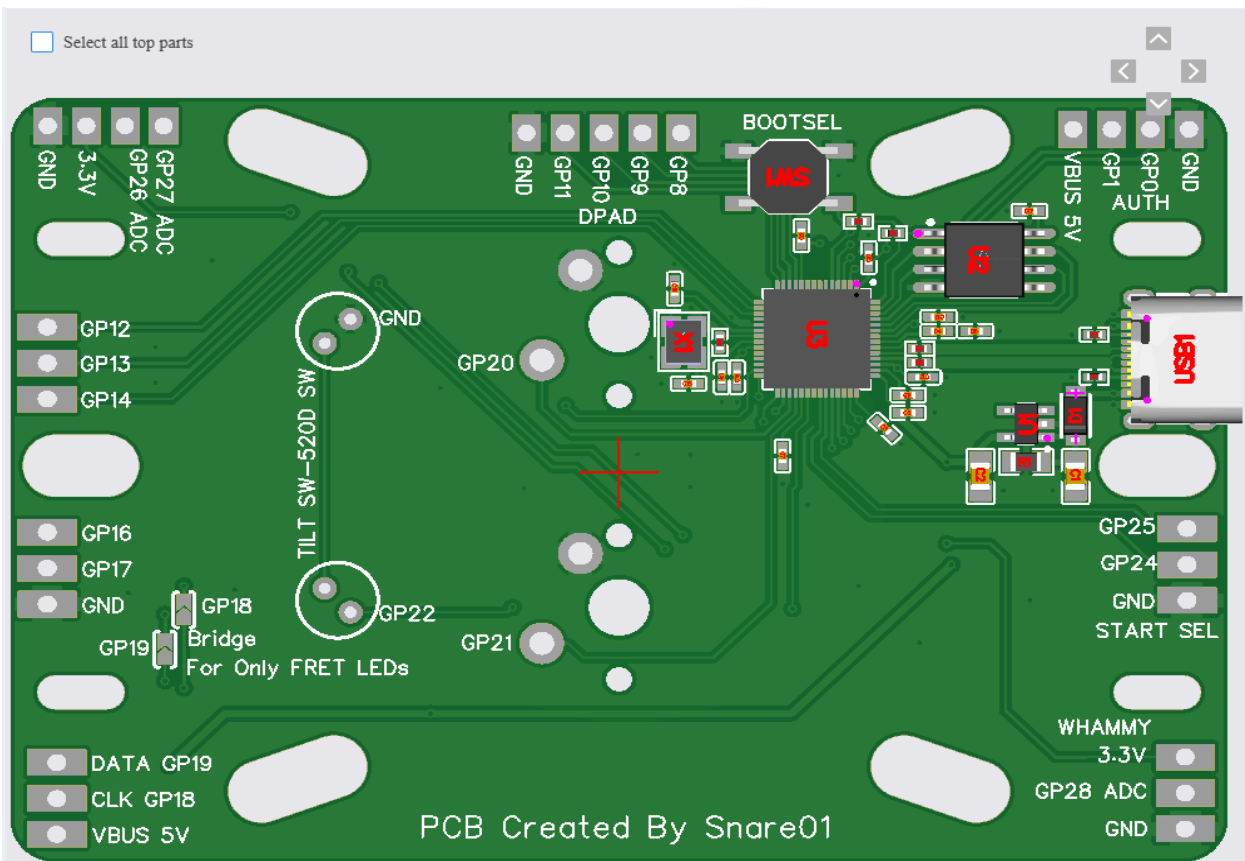


IMAGE 2: Check For missing components. My BOM shortfall has the Diode missing but I replaced it for reference in the image.

Closing Notes:

JLCPCB “corrected” my BOM upon ordering and you may encounter the same. Likely just a visual software bug on their end rotating every part 90 degrees but through the EDA or PCB creator I use they have no issues visually. My 5 boards that i've ordered came out fine and have been working well since then

