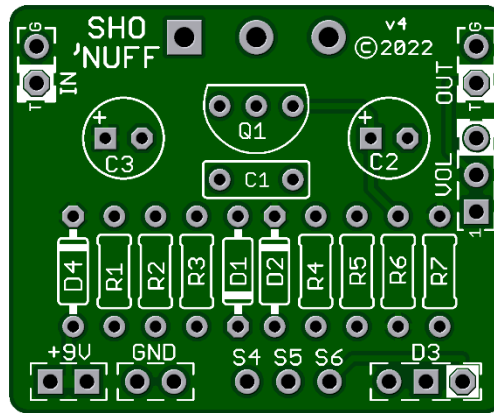


SHO' Nuff v4 2022

Build either the classic one knob version or the more functional, modern two knob version. We have added a Master Volume Control. This is handy for cranking the stock Crackle knob so you can squeeze out all of the tone, without the added volume!



Board Dimensions (W x H): 1.35" x 1.11"

| Part | Value |
|------|-------|
| R1 | 33K |
| R2 | 1M |
| R3 | 10M |
| R4 | 10M |
| R5 | 100K |
| R6 | 5k1 |

| Part | Value |
|------|-------|
| R7 | 1k8 |
| C1 | 100n |
| C2 | 10u |
| C3 | 47u |
| Q1 | BS170 |

| Part | Value |
|---------|------------|
| D1 - D2 | 1N4148 |
| D3 | Status LED |
| D4 | 1n5817 |
| VOL | A100k |
| CRACKLE | C5k |

STATUS LED

***D3** is a Status LED that can be either a Bi-Color Common Anode or a Standard On/Off LED. (See Tip Sheet)

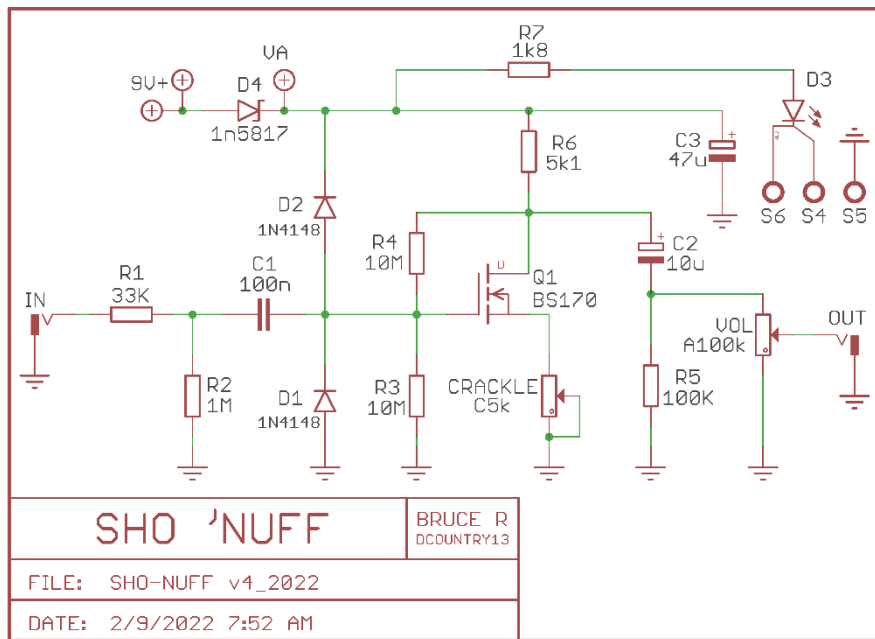
New in this GuitarPCB 2022 version release:

- Cosmetic changes
- Added a circuit protection diode. (1N5817)
- Single on-board center mounted Crackle potentiometer

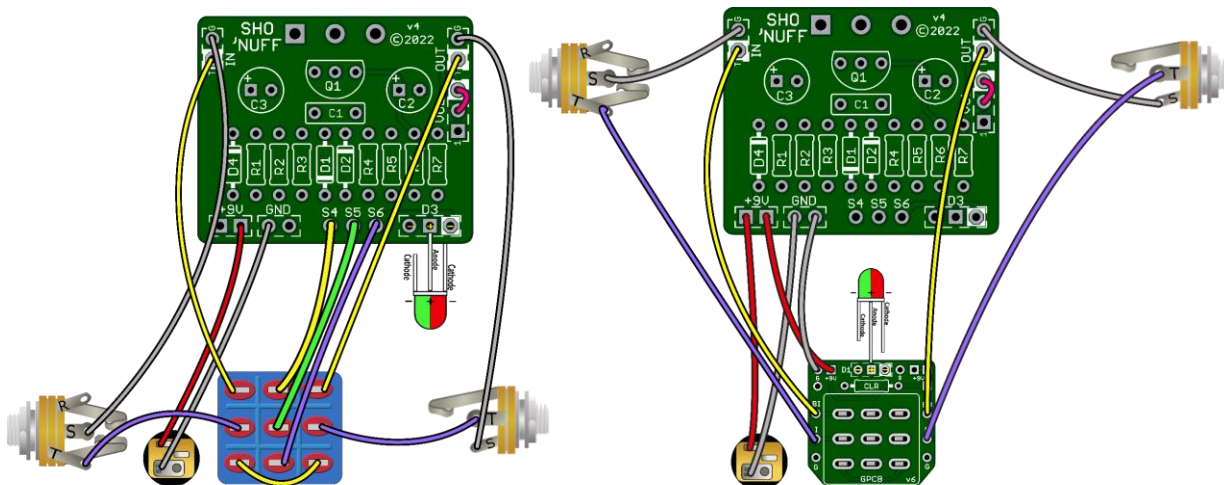
Note:

The only differences between **v3 2021** and **v4 2022** is that we added a circuit protection diode (1N5817) as well as a single on-board potentiometer for proper mounting of the "stock" SHO build. With this new design you may still hand wire a volume potentiometer if needed. If not, **Jumper** Main Board pads (2-3) under the (VOL) silkscreen. All other component values remain identical.

Hint: If building the Volume Knob version, rotate the main board 90 degrees clockwise leaving room for the hand wired potentiometer to be mounted symmetrically beside it. See drawing on page 3 of this document.



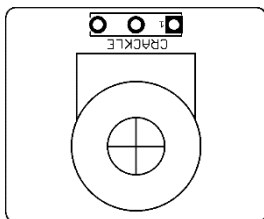
Wiring Diagrams



STATUS LED

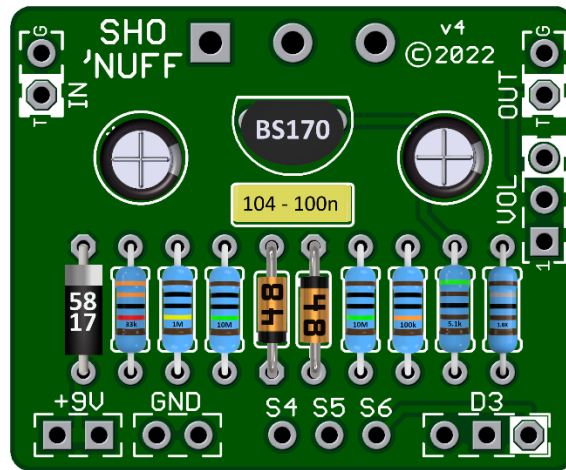
Note: Do Not Forget Jumper for single potentiometer stock build. If you are using our 3PDT board, you should omit wires and parts from S4, S5 & S6, D3 and R7 (CLR). The CLR and LED will be populated on the 3PDT board instead.

Drill Template

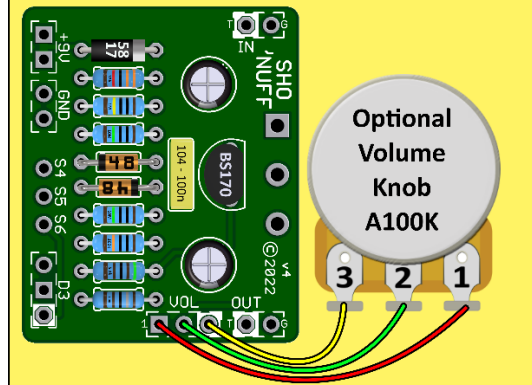


Measure your components before selecting a drill bit. Make sure page scaling is turned off when you print this PDF, or the image above may be smaller than expected. Verify everything before drilling. We also recommend you make the holes for the pots a little larger than the threads in case you decide to remove the board and put it back in during the build, to avoid problems. Use this guide at your own risk.

Populated Board Image for Troubleshooting



If using the optional Volume Knob for attenuation then rotate your board 90 degrees for a good fit.



For more build guides and tutorials please visit the [Guides Page](#) at GuitarPCB.com

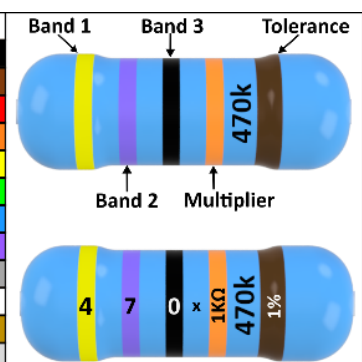
For specific build support please visit our dedicated [Support Forum](#)

[Soldering Tutorial on YouTube](#)

Need Kits - Check out our authorized worldwide distributors:

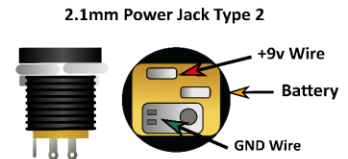
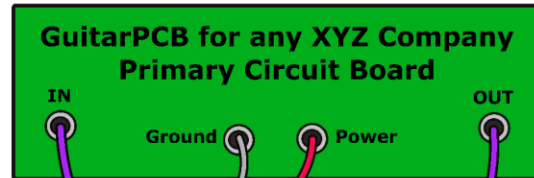
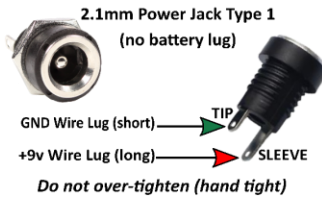
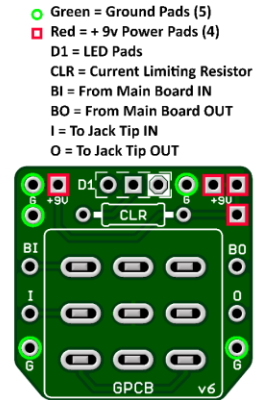
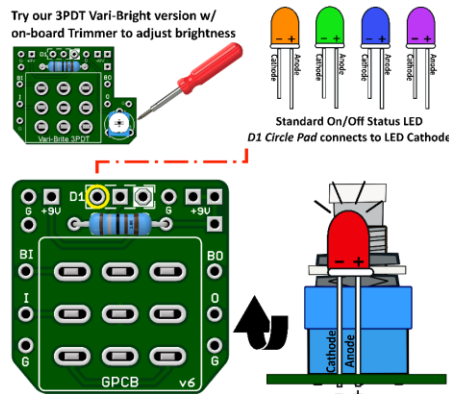
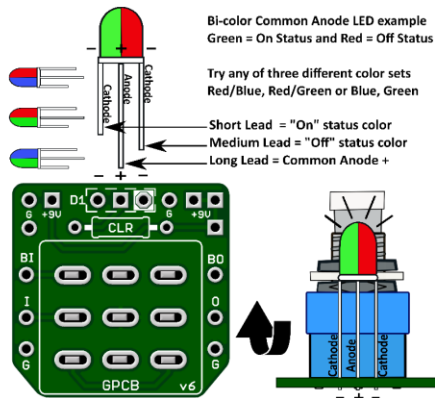
- USA – Check out [PedalPartsAndKits](#) for all your GuitarPCB kit needs in the USA.
- Europe – [Das Musikding](#) Order either boards or kits direct from Europe.
- [PedalPartsAustralia](#) - Order either boards or kits direct from Australia

| COLOR | 1st Band | 2nd Band | 3rd Band | Multiplier | Tolerance |
|--------|----------|----------|----------|------------|-----------|
| BLACK | 0 | 0 | 0 | 1Ω | |
| BROWN | 1 | 1 | 1 | 10Ω | ±1% |
| RED | 2 | 2 | 2 | 100Ω | ±2% |
| ORANGE | 3 | 3 | 3 | 1KΩ | |
| YELLOW | 4 | 4 | 4 | 10KΩ | |
| GREEN | 5 | 5 | 5 | 100KΩ | ±0.5% |
| BLUE | 6 | 6 | 6 | 1MΩ | ±0.25% |
| VIOLET | 7 | 7 | 7 | 10MΩ | ±0.10% |
| GREY | 8 | 8 | 8 | 100MΩ | ±0.05% |
| WHITE | 9 | 9 | 9 | 1GΩ | |
| GOLD | | | | 0.1Ω | ±5% |
| SILVER | | | | 0.01Ω | ±10% |



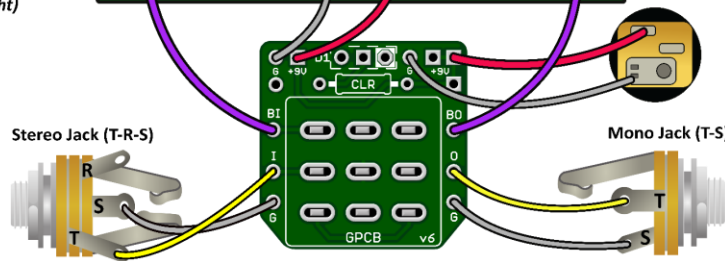


GuitarPCB Tip Sheet



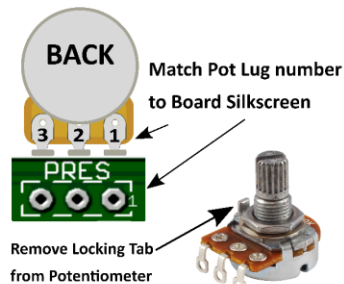
T = Tip
R = Ring
S = Sleeve

Stereo Jack (T-R-S)

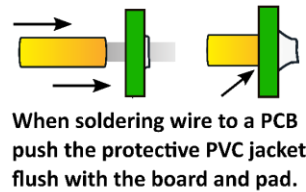
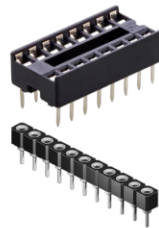


T = Tip
S = Sleeve

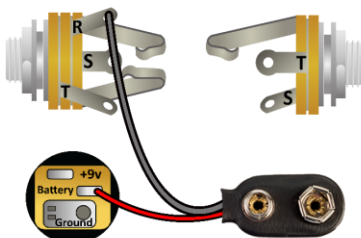
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.



Sockets make troubleshooting easier



Main Board IN/OUT Pads



Input/Output Jack Wiring

T = Tip | R = Ring | S = Sleeve

A Stereo Jack is only needed if using a Battery. Otherwise use a Mono Jack
Battery Strap RED wire is connected to Power Jack
Battery Strap Black wire is connected to RING (stereo jack)
If wiring an LED to our 3PDT Wiring Board then S4, S5 & S6 are not needed



This Build Document, PCB, Artwork and Schematic image are property of ©GuitarPCB.com
All copyrights, trademarks and artworks remain the property of their owners.
Any company or product names used are for identification and educational purposes only.
GuitarPCB is in no way affiliated with any said companies and are not to be misrepresented.