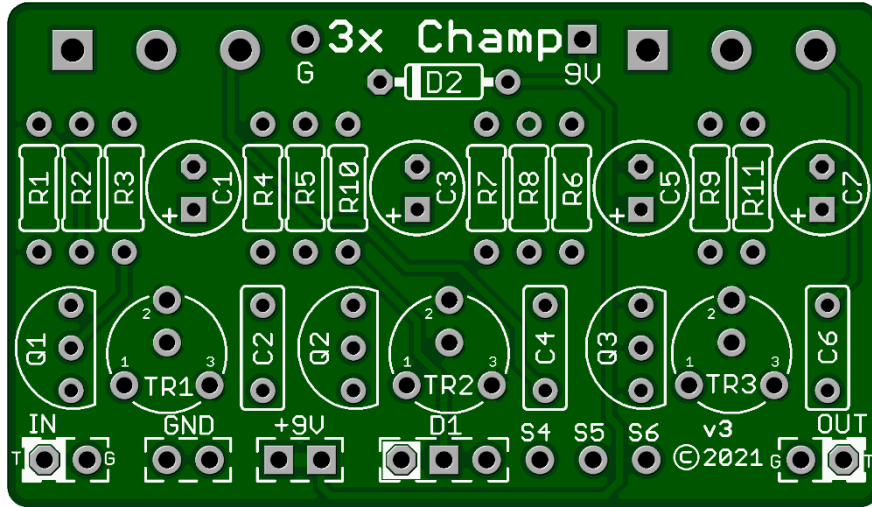


Three Time Champ v3

From a clean Boost to Overdrive, this circuit packs a punch reminiscent of Tweed tube amps of the day such as the Champ, Bronco, or Princeton.



Board Dimensions (W x H) 2.05" x 1.18"

Part	Value
R1	33k
R2	1M
R3	1k
R4	68k
R5	1M
R6	1k

Part	Value
R7	68k
R8	1M
R9	1k
R10	1k8
C1	22μ
C2	100n

Part	Value
C3	22μ
C4	100n
C5	22μ
C6	100n
C7	47μ
*Q1-Q2	2N5457

Part	Value
Q3	2N5457
DRIVE	100k Lin
VOL	100k Log
TR1 – TR3	20K
D1	Status LED
D2	1N5817

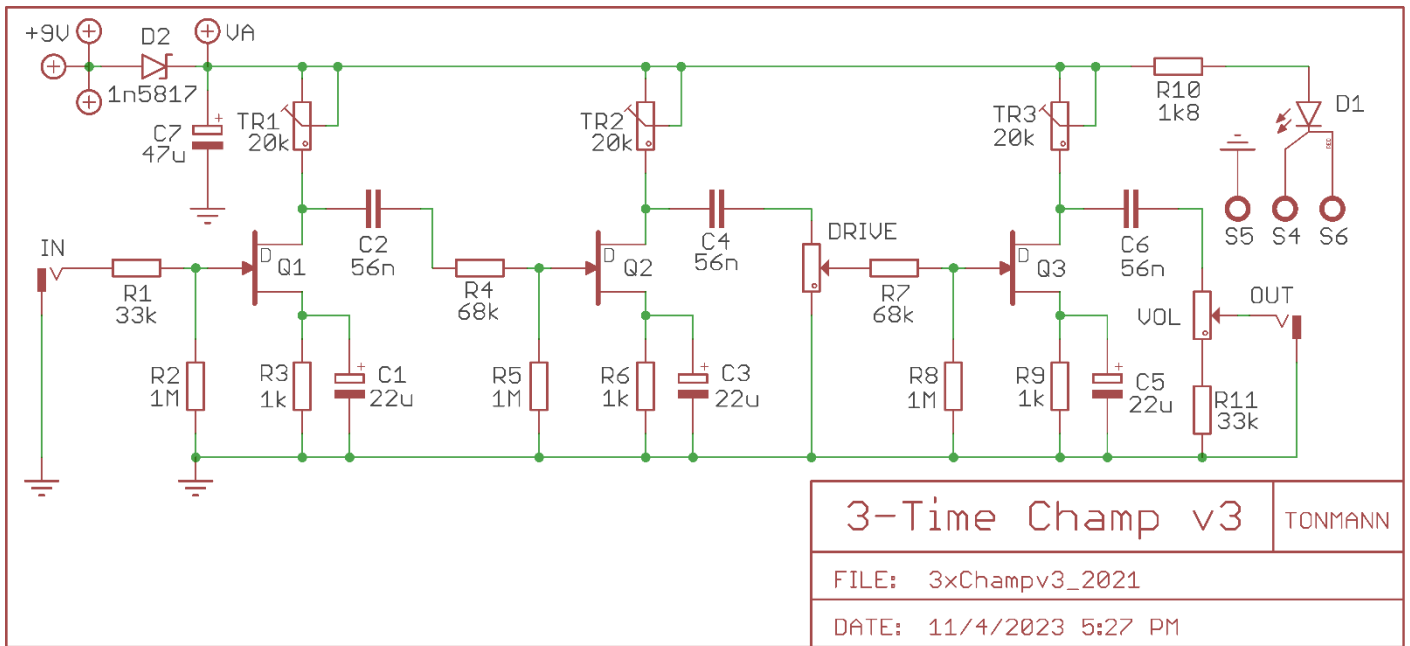
STATUS LED

*D1 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:

- Added (D2) 1N5817 circuit protection diode.
- Updated onboard potentiometers
- Larger off-board wiring pads.
- Added extra +9v and Ground pads for "Combo Builds" allowing for easy wiring options. Excellent for easy wiring options when using this in tandem with our Tone TwEQ.

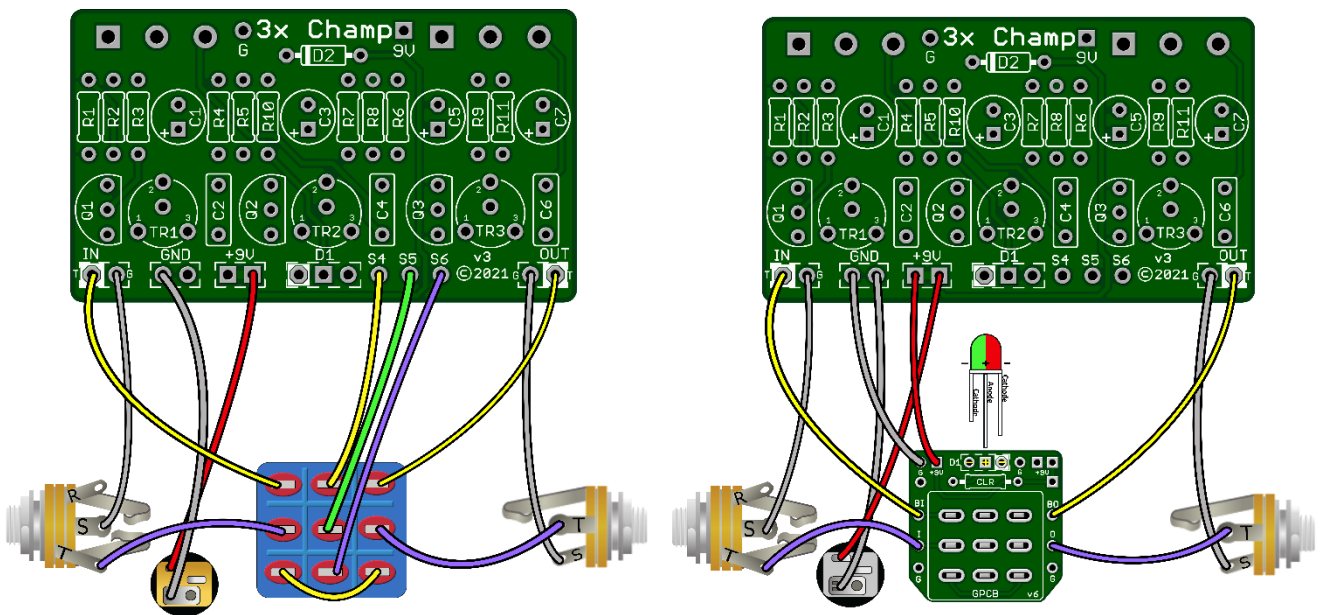
SCHEMATIC



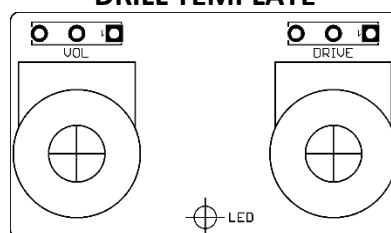
BUILD NOTES

The three trim pots (TR1 – TR3) are used to set the bias voltages at the drains of Q1 – Q3. Set from 4.5v to 6.5v

*Feel free to experiment with J113, MPF102, J201 and more. “Socket and See”. **Always use sockets.**



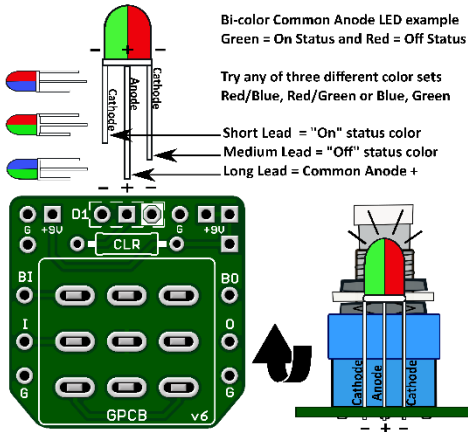
DRILL TEMPLATE



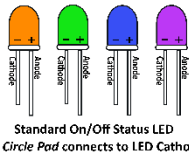
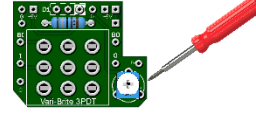
Drill Tips: Measure your components before selecting a drill bit. We recommend drilling the pot holes, mounting the pots in the enclosure, and then soldering the pots to the board. This approach should resolve the issue of the pots not fitting through the holes after soldering. We also recommend you 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. 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.



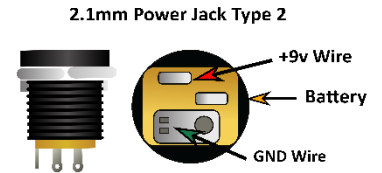
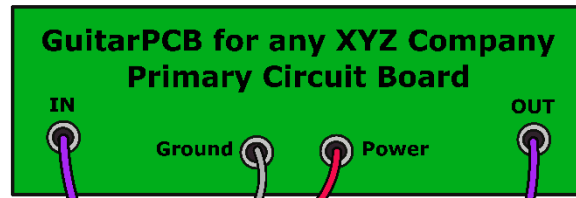
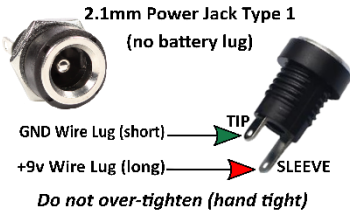
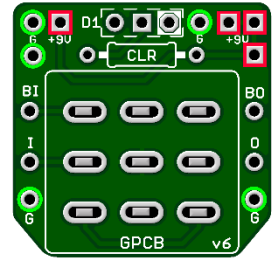
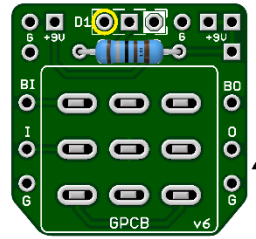
GuitarPCB Tip Sheet



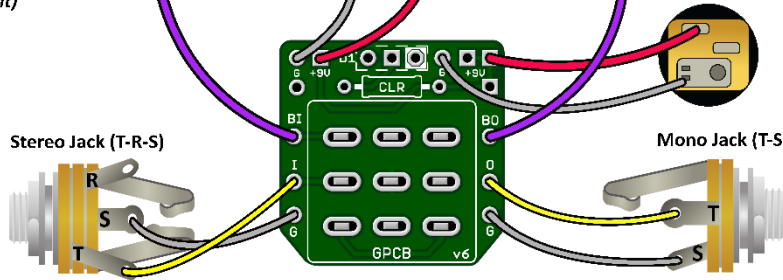
Try our 3PDT Vari-Bright version w/ on-board Trimmer to adjust brightness



- Green = Ground Pads (5)
- Red = +9v Power Pads (4)
- D1 = LED Pads
- CLR = Current Limiting Resistor
- BI = From Main Board IN
- BO = From Main Board OUT
- I = To Jack Tip IN
- O = To Jack Tip OUT

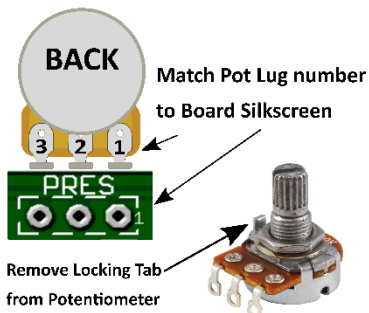


T = Tip
R = Ring
S = Sleeve

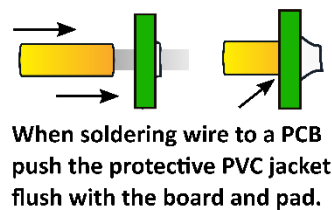
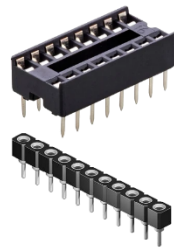


T = Tip
S = Sleeve

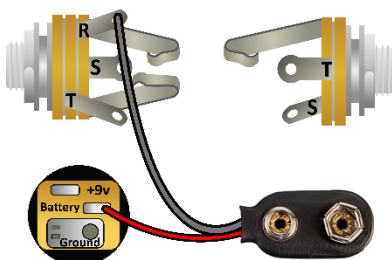
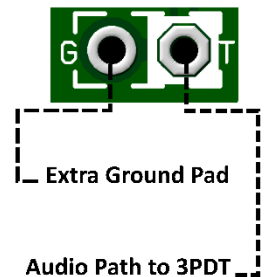
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.



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



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