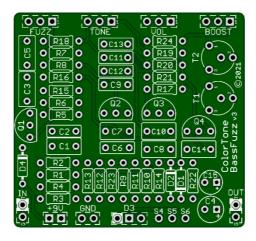
ColorTone Bass Fuzz v3

This is based on the ColorSound® Bass Fuzz™, with an added gain stage to further enhance its capabilities. With the boost knob set to fully counterclockwise, it is a stock circuit. As you turn it clockwise you gain both added volume and more articulated Fuzz tones.



Board Dimensions (W x H) 1.95 x 1.8

PARTS LIST

Part	Value
R1	1M
R2	33k
R3	100k
R4	470k
R5	15k
R6	100R
R7	1k
R8	8k2
R9	100k
R10	10k
R11	470k
R12	100R
R13	8k2
R14	100k
R15	470k

Part	Value
R16	15k
R17	100R
R18	33k
R19	33k
R20	33k
R21	1M
R22	1k
*R23	1k8 to 3k
D1	1N4148
D2	1N4148
D3	Status LED
D4	1n5817

Part	Value
C1	220n
C2	1 n
C3	220n
C4	47μ
C5	220n
C6	1n
C7	220n
C8	220n
C9	1n
C10	220n
C11	4n7
C12	10n
C13	100n
C14	220n
C15	22μ

Part	Value
*Q1	2N5088
*Q2	2N5088
*Q3	2N5088
Q4	J113
FUZZ	A100k
TONE	B100k
VOL	A100k
**BOOST	A100k
T1	20k
**T2	100k

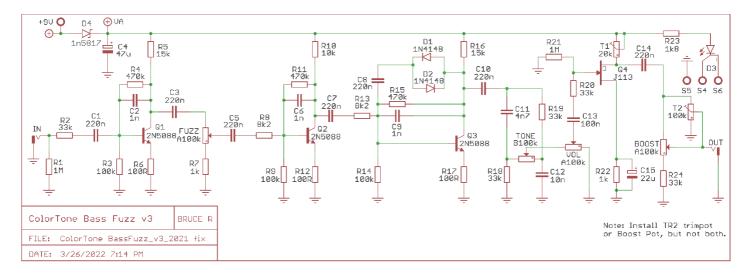
STATUS LED

New in this GuitarPCB 2022 version release:

- D3 now uses a 1N5817 circuit protection diode.
- Bias Trimmer T1 has been adjusted to 20k.

^{*}D1 is a Status LED that can be either a Bi-Color Common Anode or a Standard On/Off LED. (See Tip Sheet)

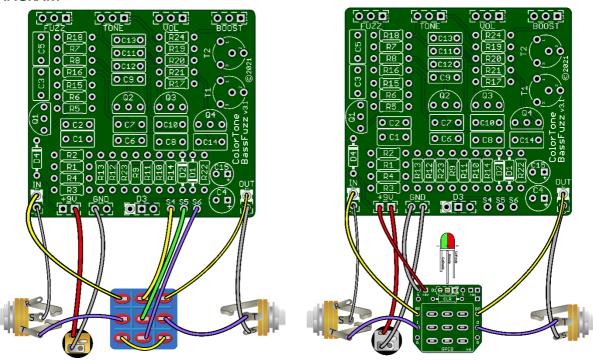
SCHEMATIC



Build Notes

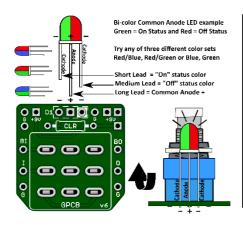
- **T1** adjusts the Bias. To set the bias, measure the voltage (using your DMM) between the drain of Q4 and any ground. Adjust Trimpot **(T1)** so that the voltage on the Drain of J113 is between 4.5v and 6v.
- Both the **Boost potentiometer and optional **T2 Trimmer is in parallel. If you want a simple "set and forget" 3-knob pedal, only install T2 and <u>not</u> the Boost potentiometer. Then simply adjust the T2 trimmer where you would like the overall volume of the pedal to be. If you want a Boost adjustable 4-knob pedal then only install the Boost potentiometer and do not install T2.
- Either the *Boost Potentiometer <u>or</u> T2 are meant to be set between 75% to 100% full rotation depending on your preference. If you choose a **Boost** potentiometer instead of a "set and forget" **T2** Trimpot option no jumpers are needed.
- Our circuit uses a *2N5088 transistor orientation. If you choose BC546 you must flip the transistor orientation.

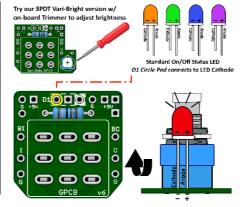
WIRING DIAGRAM

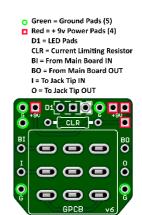


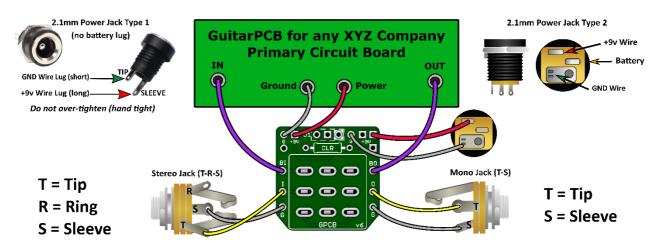


GuitarPCB Tip Sheet

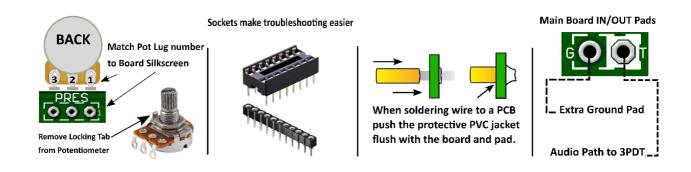








Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.





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

