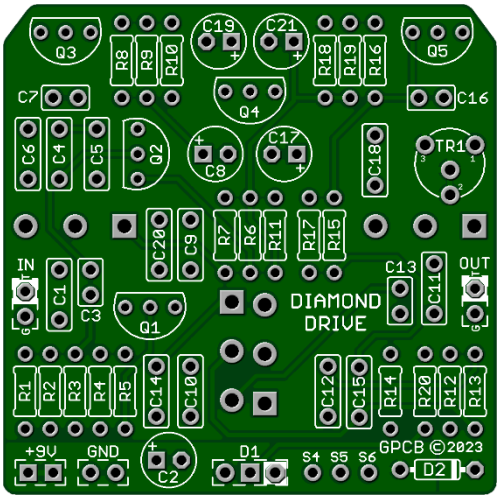
Diamond Drive 2023

Listen to the razor-sharp articulate tones that evolve into creamy, crunchy cutting overdrive as you crank the gain and dig in. This diamond really cuts through the mix!



Dimensions: 1.97" x 1.96"

Part	Value
R1	1M
R2	47k
R3	470k
R4	470k
R5	1k
R6	470k
R7	100k
R8	470k
R9	1k
R10	1k
R11	470k
R12	220k
R13	220k

Part	Value
R14	22k
R15	33k
R16	1M
R17	1k
R18	10k
R19	10k
R20	1k8
TR1	20k
TREB	B1M
VOL	A100k
*DRIVE	A100K
BASS	B1M

Part	Value
C1	47n
C2	10uF
C3	330p
C4	10n
C5	1n
C6	1n
C7	680p
C8	22uF
C9	100n
C10	47n
C11	1n5
C12	15n
C13	330p

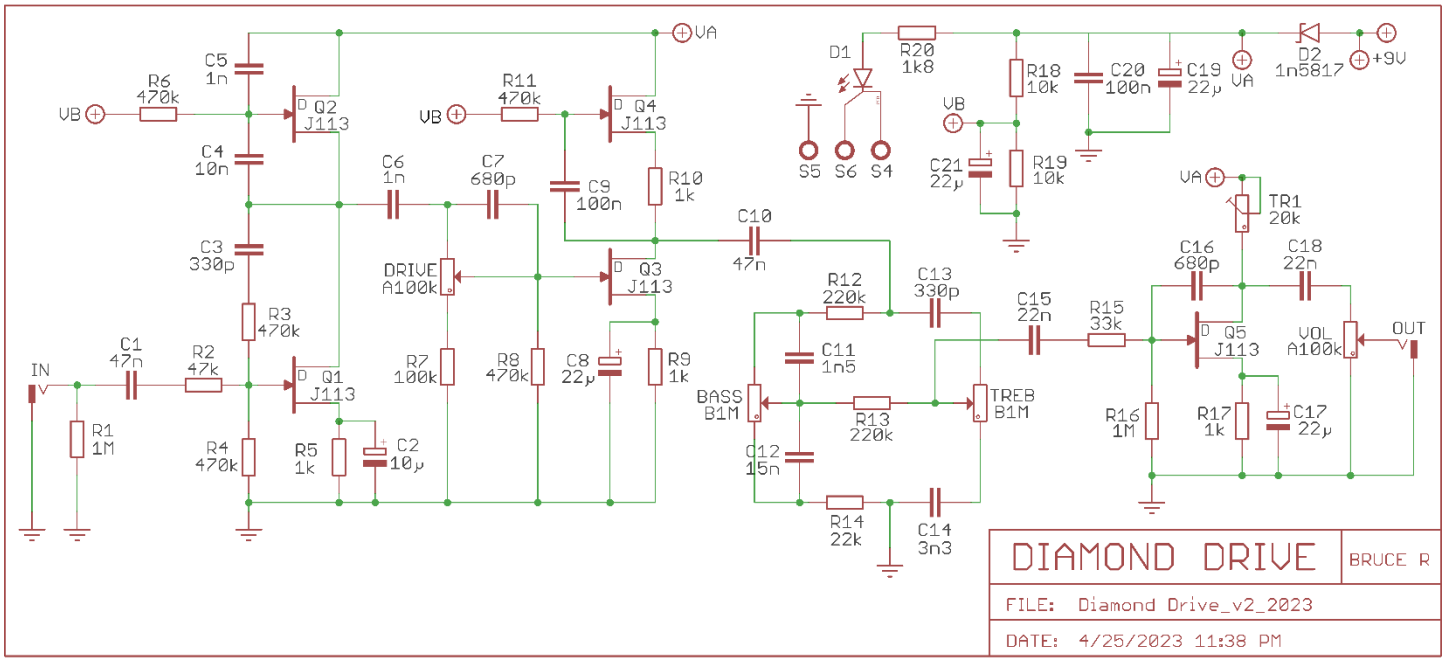
Part	Value
C14	3n3
C15	22n
C16	680p
C17	22uF
C18	22n
C19	22uF
C20	100n
C21	22uF
D1	Status LED
D2	1N5817
Q1 - Q4	J113
Q5	J113

New in 2023: Uses a 1N5817 protection diode. Several capacitor values were updated to better articulate the Vox style tone.

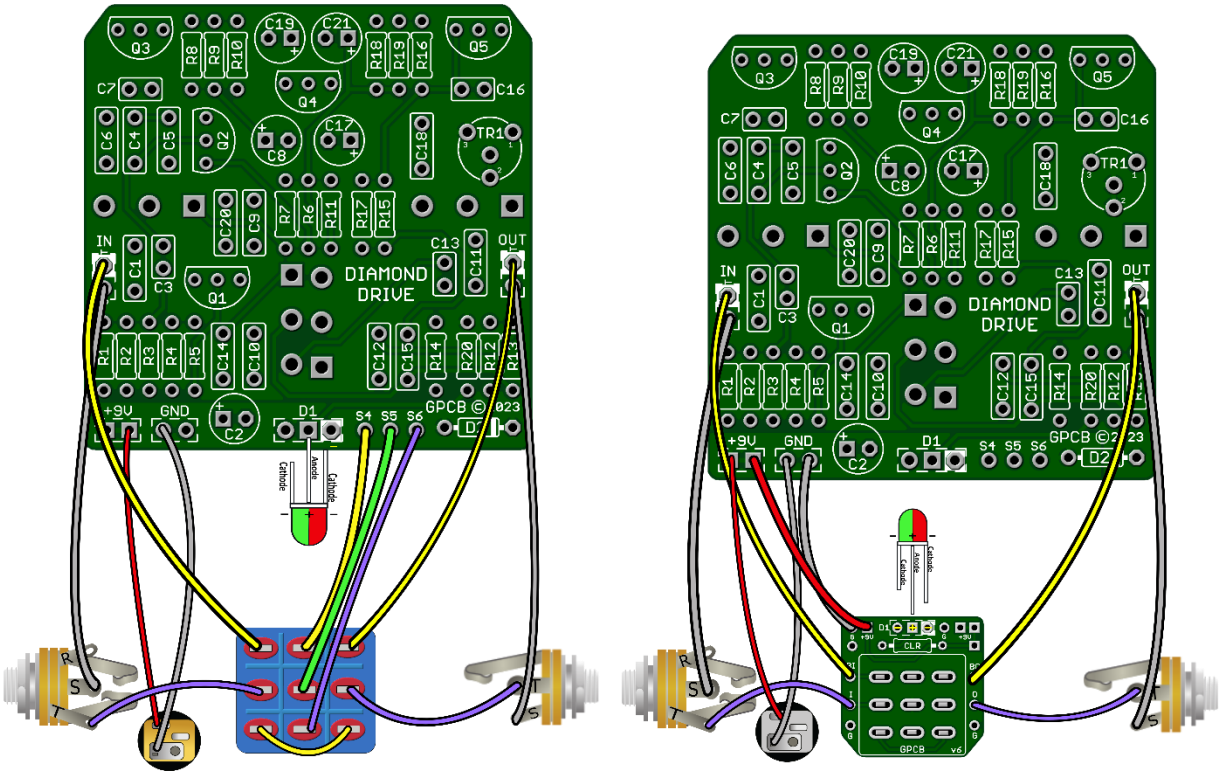
Biasing TR1: When biasing the Drain voltage of Q5, it should be approximately half of the supply voltage of 4.5v up to 6 volts.

R20 - ***1k8** is a value of resistance for a bright Status LED C.L.R. (Current Limiting Resistor). If you prefer a dimmer LED, you may choose anything from 1k8 to 4k7 and in between safely.

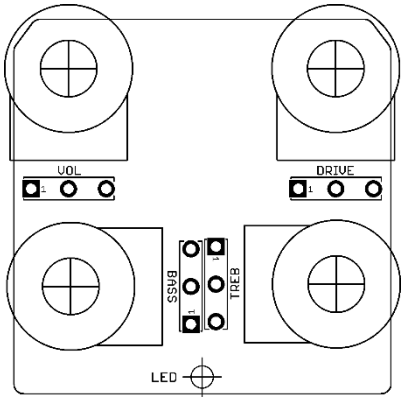
Mod: If you would like more available Dirt Tone, increase the Gain pot to A250K.



WIRING

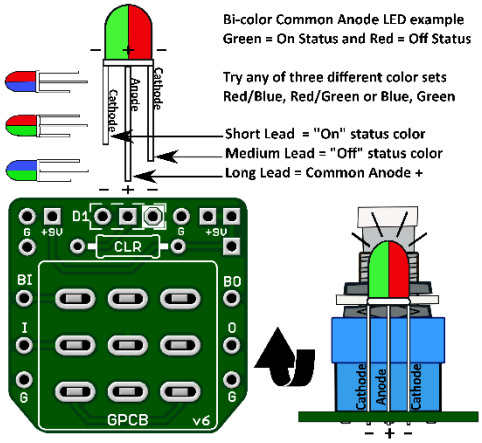


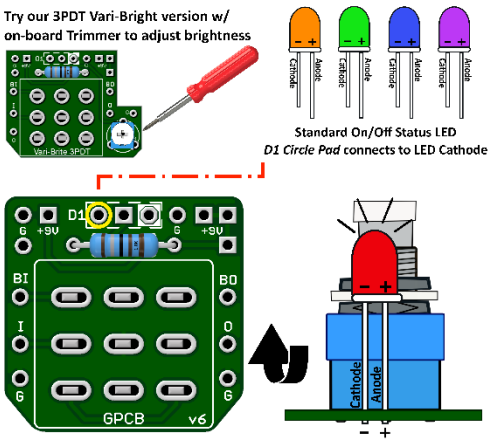
Status LED may be mounted to the main board or 3PDT wiring board. Choose your favorite location.

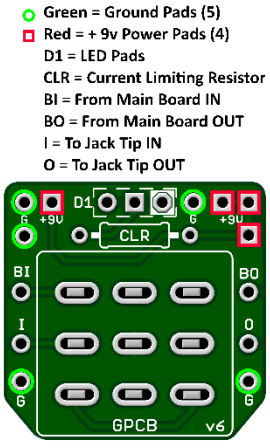


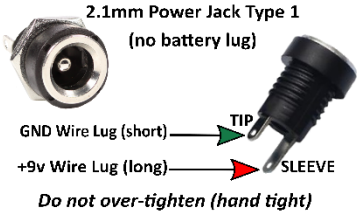
Drilling Template: Make sure it prints out to size with your PCB. (300dpi)
Drill at your own risk. We suggest enclosure mounting before soldering in potentiometers.

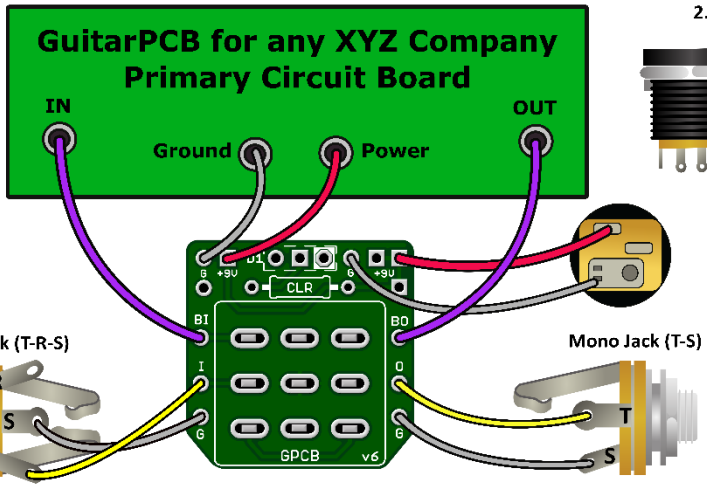
GuitarPCB Tip Sheet

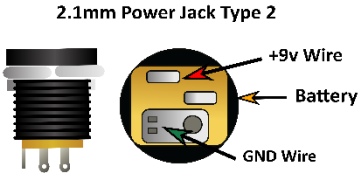












T = Tip
R = Ring
S = Sleeve

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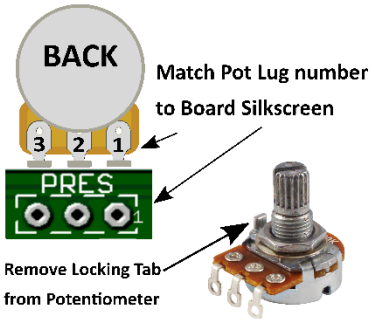
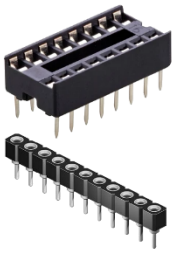
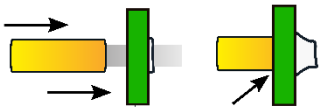
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit indiviual needs.



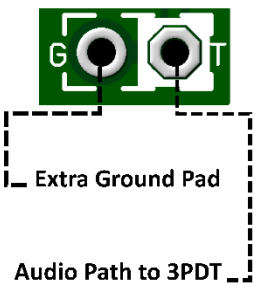
Sockets make troubleshooting easier

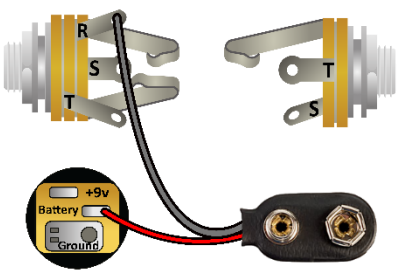




When soldering wire to a PCB push the protective PVC jacket flush with the board and pad.

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