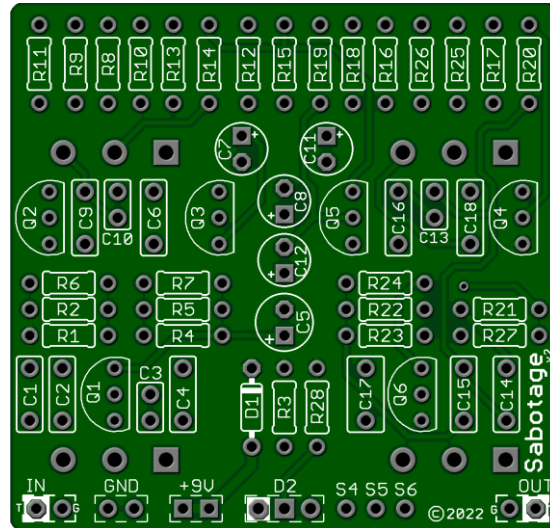


# Sabotage Drive v2

The Sabotage PCB is based on the Catalinbread circuit but with a few tweaks. Controls are Gain, Presence, and Volume for different amounts of crunch as you would expect from a Laney™ style rig and perhaps most importantly for tone shaping is the inclusion of the Range knob that provides an amazing diversity of heavier tones. The Range control is variable to match whatever range tone you seek (Classic Treble Boost, Treble w/ Mids, Full Range w/ Tight Bottom, or Full Range Heavy Lows).

**NOTE: This version requires you to reverse the orientation of (2) electrolytic capacitors compared to the board silkscreen. These two would be C8 and C12. Everything else is populated as normal.**



Board Dimensions (W x H) 2.10" x 2.02

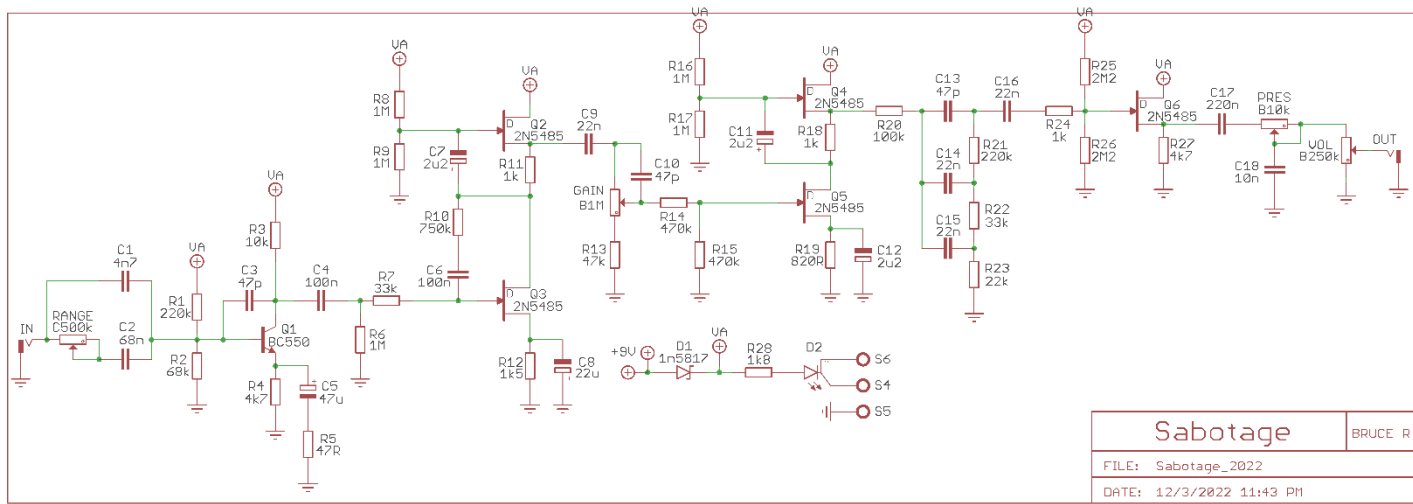
R1	220k	R15	470k	C1	4n7	C15	22n
R2	68k	R16	1M	C2	68n	C16	22n
R3	10k	R17	1M	C3	47p	C17	220n
R4	4k7	R18	1k	C4	100n	C18	10n
R5	47R	R19	820R	C5	47u		
R6	1M	R20	100k	C6	100n	RANGE	C500k
R7	33k	R21	220k	C7	2u2	VOL	B250k
R8	1M	R22	33k	C8	22u	GAIN	B1M
R9	1M	R23	22k	C9	22n	PRES	B10k
R10	680k	R24	1k	C10	47p		
R11	1k	R25	2M2	C11	2u2	Q1	BC550
R12	1k5	R26	2M2	C12	2u2	Q2 - Q6	2N5485
R13	47k	R27	4k7	C13	47p	D1	1n5817
R14	470k	R28	1k8	C14	22n	D2	Status LED

## STATUS LED

\*D2 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 v2 release:

- Added (D2) 1N5817 circuit protection diode and better cosmetic layout.



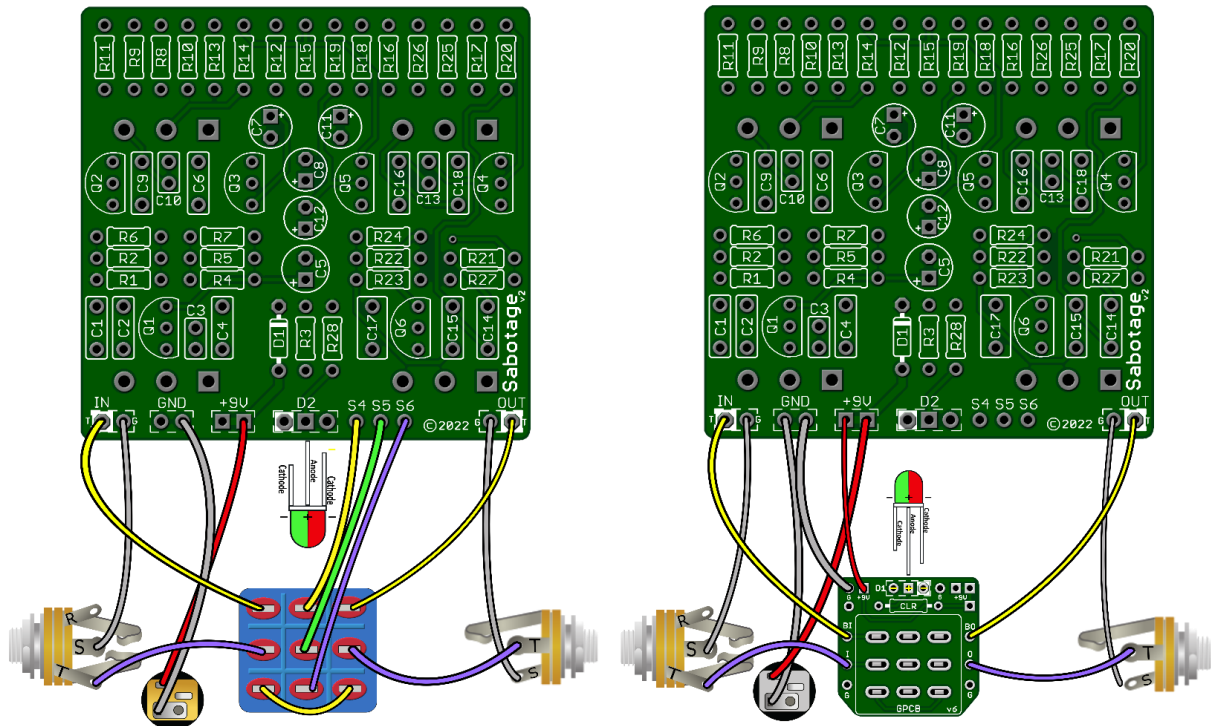
## Controls:

**Gain** – Choose the amount of Gain to suit your overdriven tone. Clean up with guitar volume for soft passages easily.

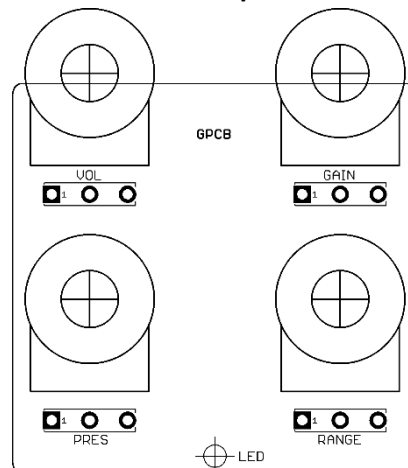
**Volume** – Adjust to your needs, more than unity gain available.

**Presence** – Adjust this when using different amps or guitars that have more or less high-end.

**Range** – Range control lets you choose frequency response from treble-only boost to full-range boost. Pushes overdrive into distortion.

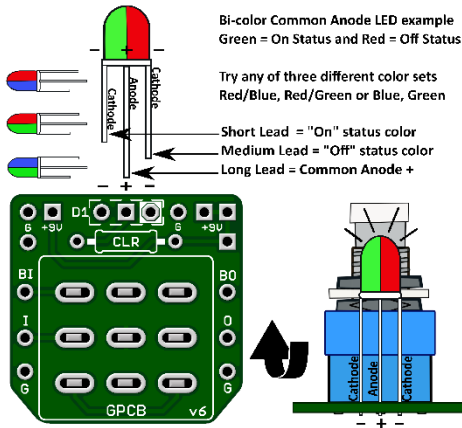


## Drill Template

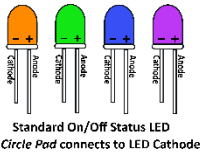
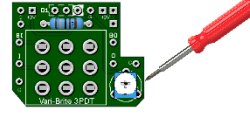




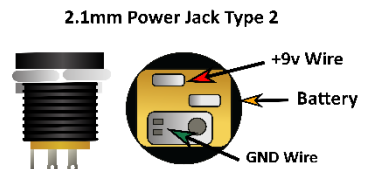
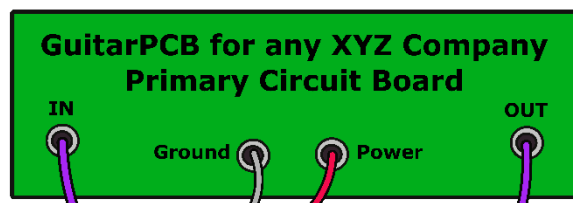
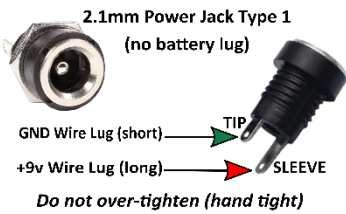
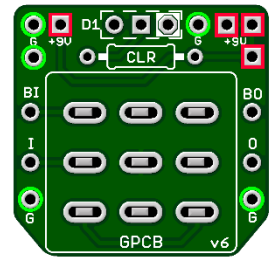
# GuitarPCB Tip Sheet



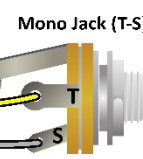
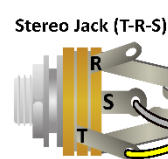
Try our 3PDT Vari-Bright version w/ on-board Trimmer to adjust brightness



- 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

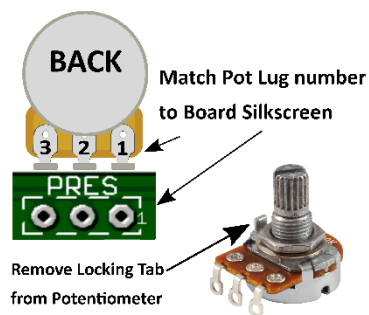


T = Tip  
R = Ring  
S = Sleeve

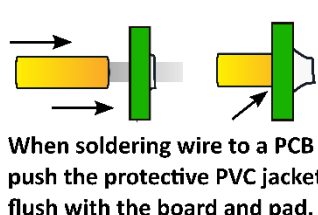
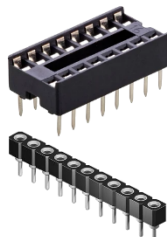


T = Tip  
S = Sleeve

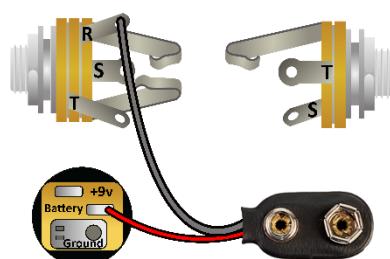
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.



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



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.