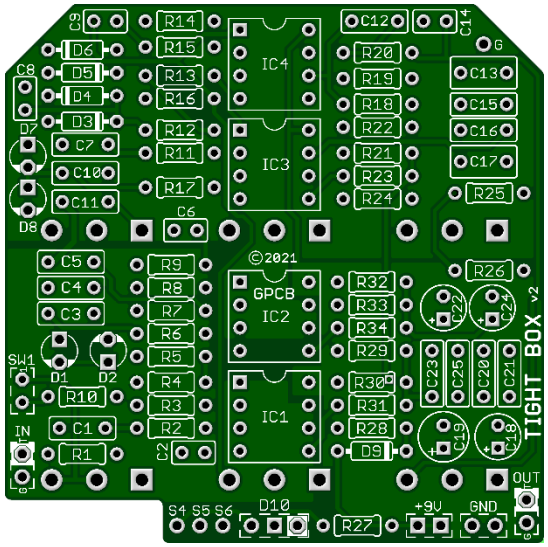
TIGHT BOX v2 2021

Based on a Plexi amp that is designed with more flexibility. Classic Plexi and JCM800 tones are at your command. Add a 3-band EQ for versatile tone shaping as well as a Presence control. This is a harmonically rich overdrive that allows you to summon all your favorite Marshall style tones. May the Rock Gods be with you.



Dimensions: 2.35” x 2.35” with cutout for SW1

Part	Value
R1	1M
R2	330k
R3	10k
R4	22k
R5	39k
R6	22k
R7	10k
R8	22k
R9	22k
R10	470k
R11	22k
R12	22k
R13	220k
R14	27k
R15	10k
R16	27k
R17	2k2

Part	Value
R18	33k
R19	33k
R20	47k
R21	470k
R22	22k
R23	2k2
R24	2k2
R25	100k
R26	3k3
R27	1k8
R28	10R
R29	20k
R30	22k
R31	2k2
R32	20k
R33	22k
R34	2k2

Part	Value
C1	22n
C2	47p
C3	10n
C4	100n
C5	1n
C6	47p
C7	47n
C8	220p
C9	220p
C10	10n
C11	4n7
C12	22n
C13	220n
C14	470p
C15	10n
C16	2n2
C17	220n

Part	Value
C18	22u
C19	47u
C20	100n
C21	100n
C22	22u
C23	100n
C24	22u
C25	100n
VOL	A50k
GAIN	A1M
PRES	C10k
TREB	B100k
MID	A100k
BASS	C100k
SW1	**SPST

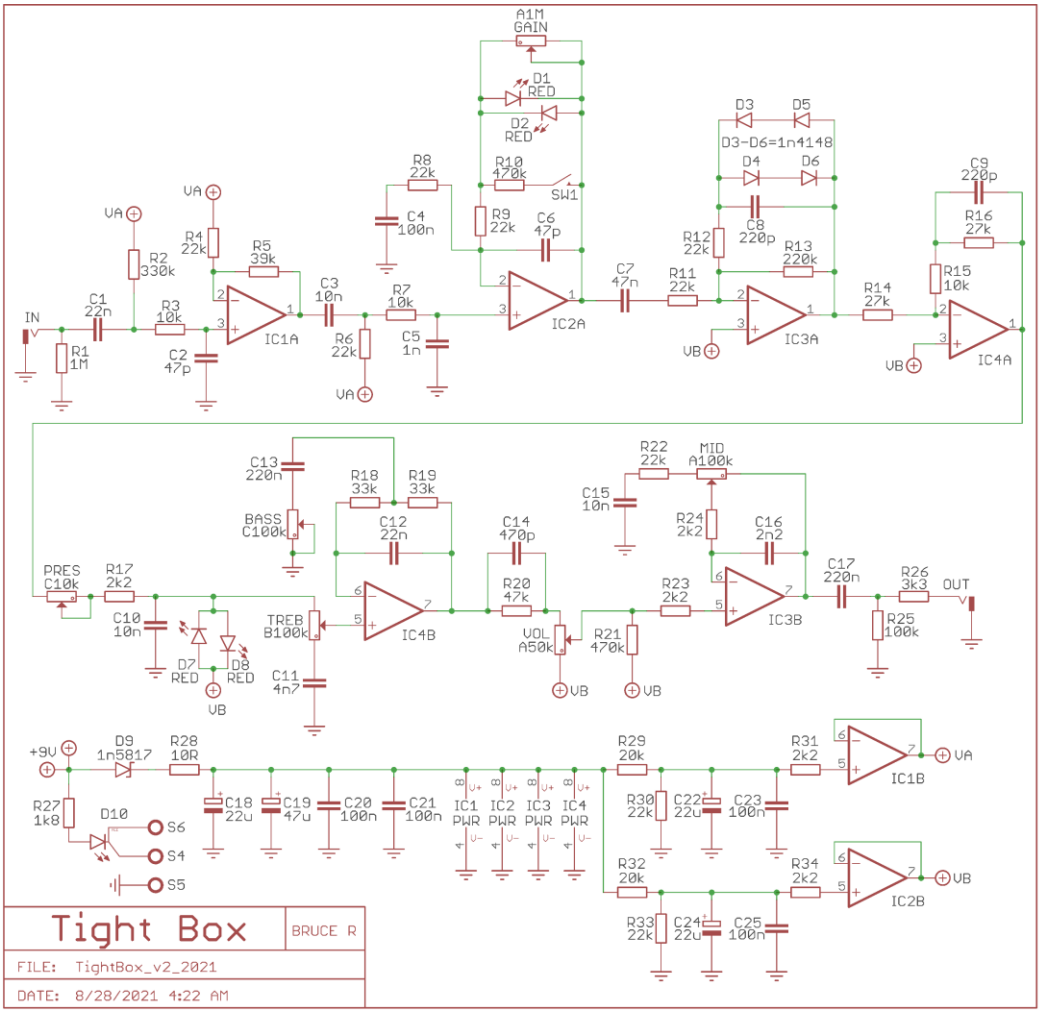
Part	Value
IC1	TL072
IC2	TL072
IC3	TL072
IC4	TL072
D1	3mm RED
D2	3mm RED
D3	1n4148
D4	1n4148
D5	1n4148
D6	1n4148
D7	3mm RED
D8	3mm RED
D9	1n5817
D10	*Status LED

STATUS LED

***D10 is a Status LED that can be either a Bi-Color Common Anode or a Standard On/Off LED.**

New in this GuitarPCB 2021 version release:

- **Larger off-board wiring pads.**
- **Cosmetic adjustments. Component choices and values are identical to previous versions.**



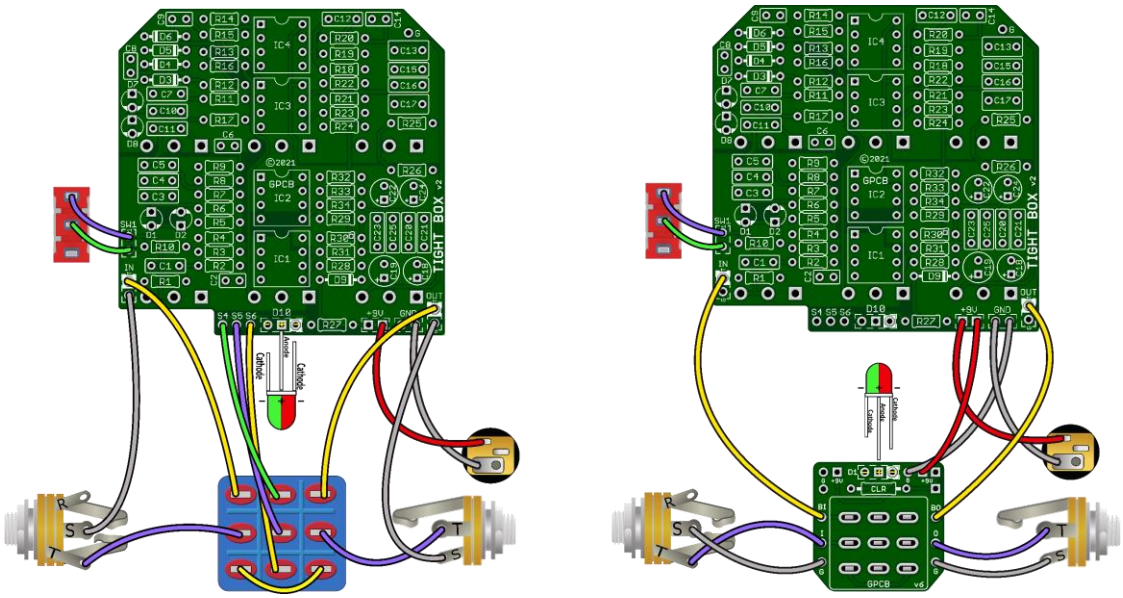
Build Notes:

If needed you can substitute the C10K and C100K for Linear or B Taper potentiometers. You may also try an A100K for Volume. Feel free to try other Dual Opamp IC chips like OPA2134PA or 4558.

There is a notch on the bottom left side of the board. This could be used for space installing SW1.

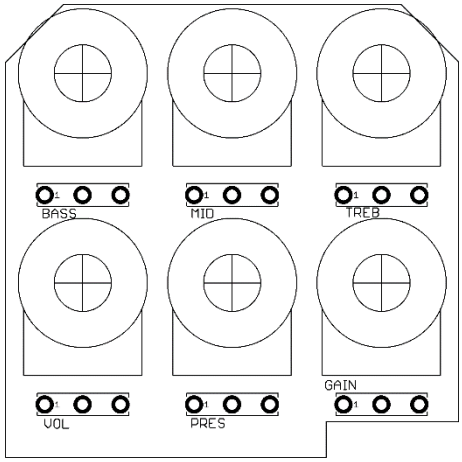
SW1 can be SPST or SPDT. If using a SPDT switch do not attach a wire to Lug 3 (either outside lug).

Wiring Diagram



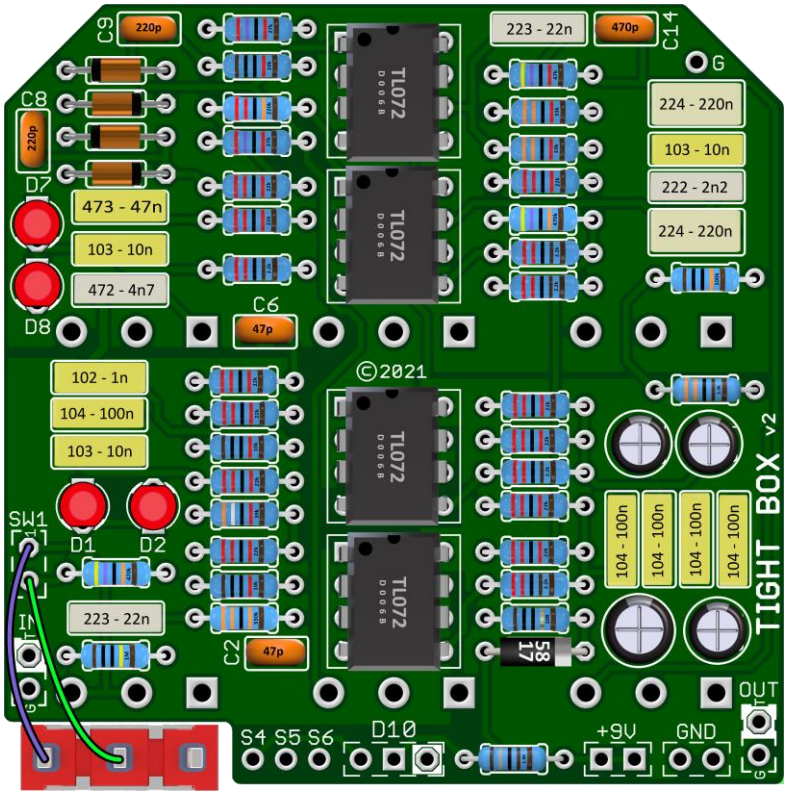
Note: If wiring the LED to our 3PDT board no need to connect S4, S5 & S6 or populate D10 or R27 (CLR) on the main board since you are wiring your LED directly to our board.

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.

Populated Board Image for Troubleshooting



For more build guides and tutorials please visit the Guides Page at GuitarPCB.com

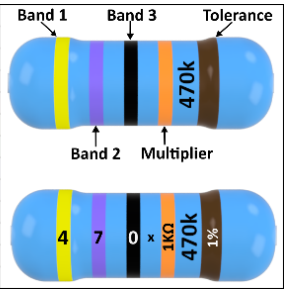
For specific build support please visit our dedicated Support Forum

Soldering Tutorial on YouTube

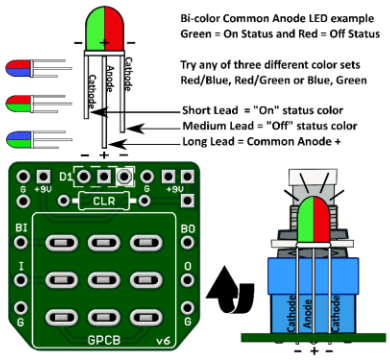
Need Kits - Check out our authorized worldwide distributors:

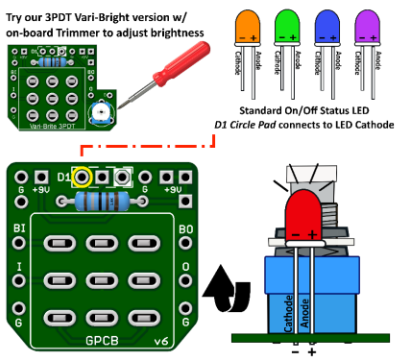
- USA – Check out PedalPartsAndKits for all your GuitarPCB kit needs in the USA.
- Europe – Das Musikding Order either boards or kits direct from Europe.
- PedalPartsAustralia - Order either boards or kits direct from Australia

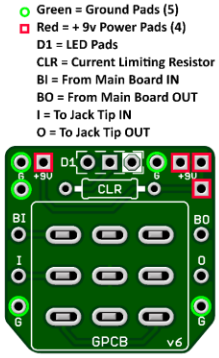
COLOR	1st Band	2nd Band	3rd Band	Multiplier	Tolerance
BLACK	0	0	0	1Ω	
BROWN	1	1	1	10Ω	±1%
RED	2	2	2	100Ω	±2%
ORANGE	3	3	3	1KΩ	
YELLOW	4	4	4	10KΩ	
GREEN	5	5	5	100KΩ	±0.5%
BLUE	6	6	6	1MΩ	±0.25%
VIOLET	7	7	7	10MΩ	±0.10%
GREY	8	8	8	100MΩ	±0.05%
WHITE	9	9	9	1GΩ	
GOLD				0.1Ω	±5%
SILVER				0.01Ω	±10%

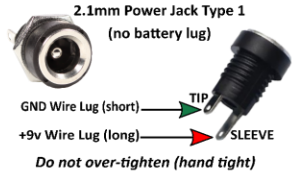


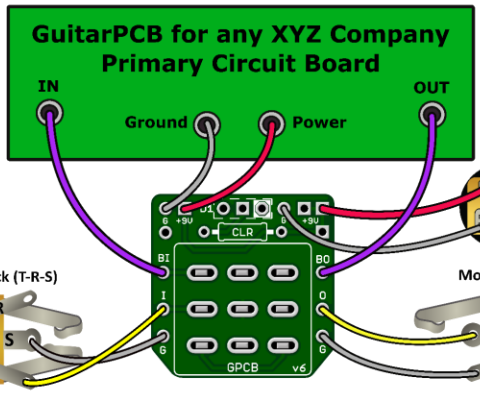
GuitarPCB Tip Sheet

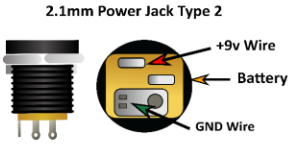








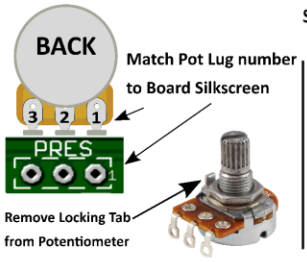




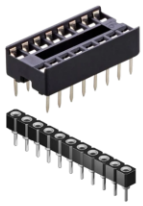
T = Tip
R = Ring
S = Sleeve

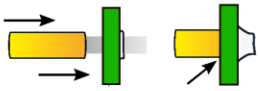
T = Tip
S = Sleeve

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 indiviual needs.



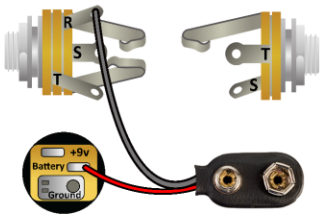
Sockets make troubleshooting easier





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