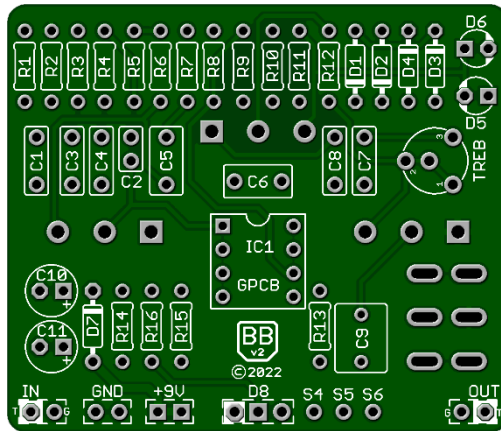


# Blues Buster v2 2022

As the name implies the Blues Buster replicates tones found in the classic Marshall pedal which was based on the classic Marshall Blues Breaker amp. The result is a highly flexible Boost/Overdrive circuit.



Board Dimensions (W x H) 2.12" x 1.81"

| Part      | Value | Part | Value | Part  | Value      | Part | Value | Part  | Value      |
|-----------|-------|------|-------|-------|------------|------|-------|-------|------------|
| R1 - 1M   |       | R9   | 6k8   | D1    | 1N914      | C1   | 56n   | C9    | 1u         |
| R2 - 1M   |       | R10  | 220k  | D2-D3 | 1N914      | C2   | 47p   | C10   | 100u       |
| R3 - 4k7  |       | R11  | 1k    | D4    | 1N914      | C3   | 56n   | C11   | 100u       |
| R4 - 3k3  |       | R12  | 6k8   | D5-D6 | Red LED    | C4   | 15n   | SW1   | DPDT ON-ON |
| R5 - 3k3  |       | R13  | 1M    | D7    | 1N5817     | C5   | 220n  | TONE  | B25k       |
| R6 - 330k |       | R14  | 47k   | D8    | Status LED | C6   | 220n  | TREB  | 50k Trim   |
| R7 - 4k7  |       | R15  | 47k   |       |            | C7   | 10n   | VOL   | A100k      |
| R8 - 4k7  |       | R16  | *1k8  | IC1   | 4558       | C8   | 10n   | DRIVE | B250k      |

## STATUS LED

D8 is a Status LED that can use either Bi-Color Common Anode or a Standard On/Off LED. R16 is the CLR for the Status LED

## New in this GuitarPCB 2022 version release:

- Large off-board wiring pads and additional cosmetic upgrades.
- Onboard DPDT On-On solder lug switch.
- D5 and D6 are 3mm LEDs. The silkscreened stripe represents the orientation for the flat side (cathode) of the LED.
- Incorporated a 1N5817 protection diode.

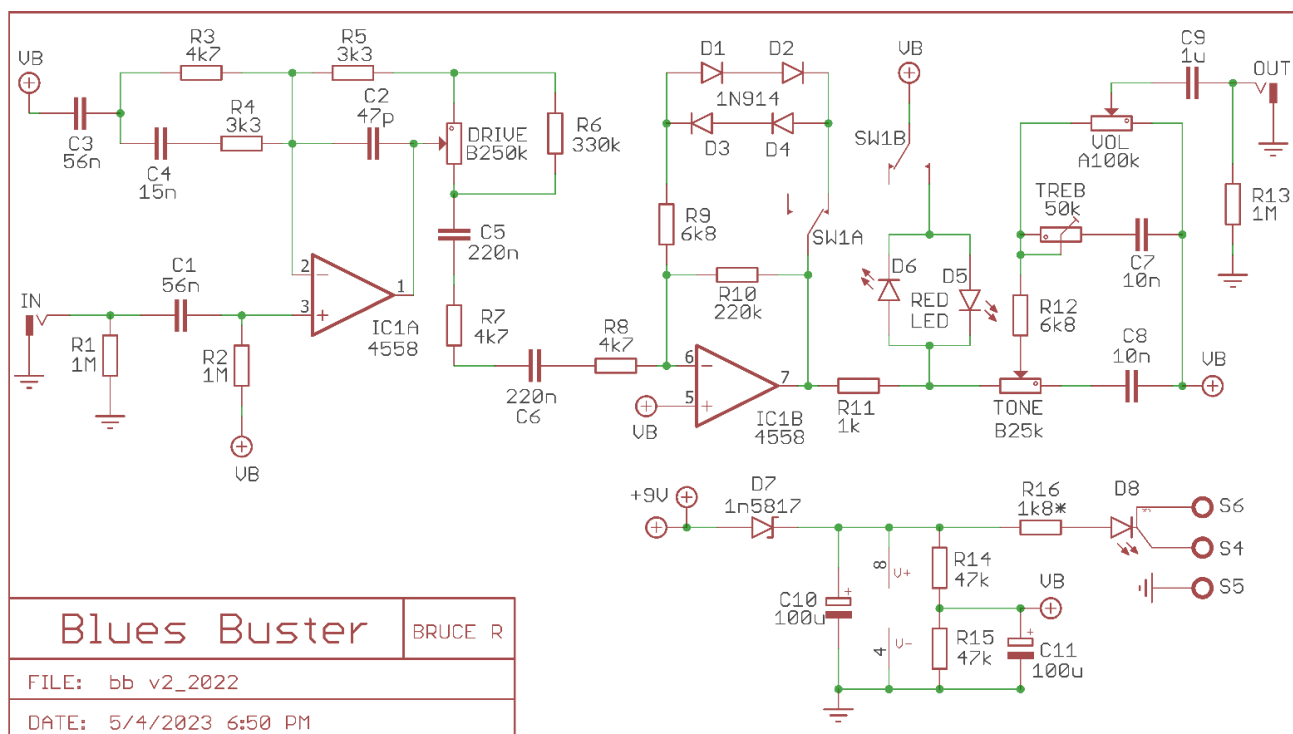
## Substitutions:

You may fit 5mm LEDs on this board but it will be tight.

IC1 can be 4558, TL072, TL062, Burr Brown, or similar. Always check datasheets.

D1 through D4 - You may use 1N914 or 1N4148.

If you are using the Main Board for installing your status LED you can try and value of CLR (R16) from 1k8 (bright) to 4k7 (dim).

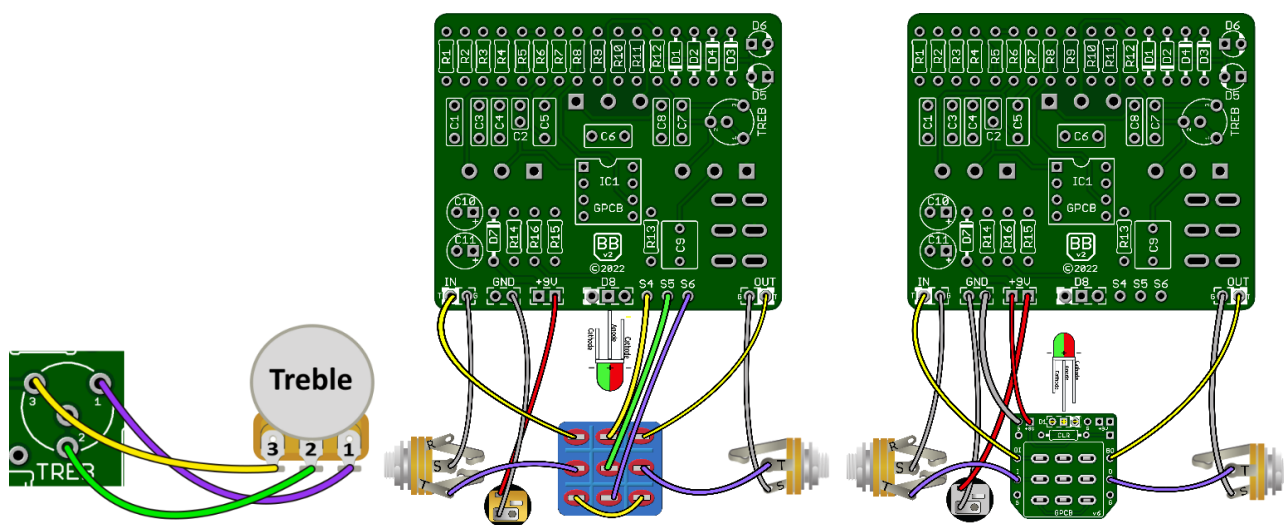


The main controls are Volume, Tone & Drive. A highly flexible boost/overdrive pedal based on the classic Marshall Blues Breaker™. With the Drive control down, you'll get a transparent gain boost. As you turn up the Drive control, the effect transitions from a clean boost to saturated overdrive.

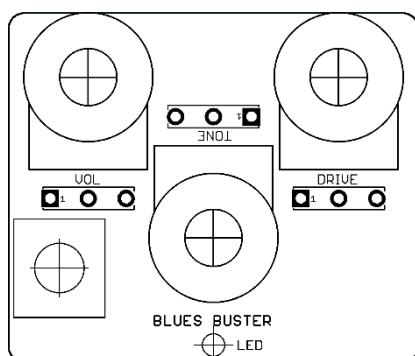
#### Build Notes:

**Treble Trimmer:** With the Treble Trimmer you have extra control when using an extra dark, or bright guitar rig simply set and forget your overall favorite tone. The trimmer can also be used as an added enclosure-mounted pot. (See below)

#### Wiring Diagram:



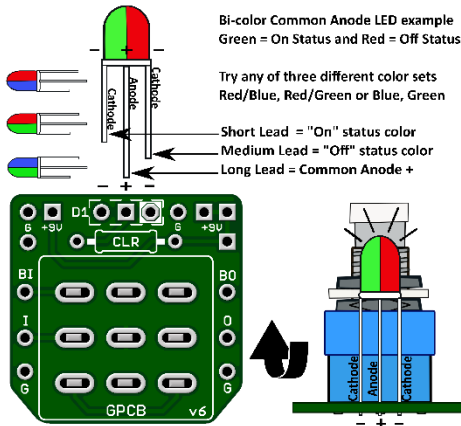
#### Drill Template



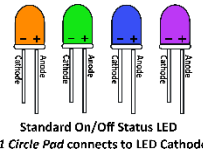
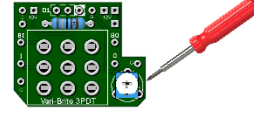
Measure your components before selecting a drill bit. We recommend drilling the potentiometer holes, mounting the pots in the enclosure, and then soldering the pots to the board. This approach should resolve the issue of the pots not fitting through the holes after soldering. We also recommend you make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



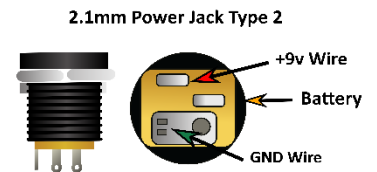
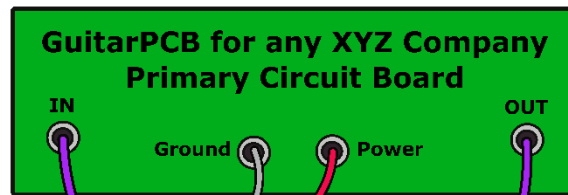
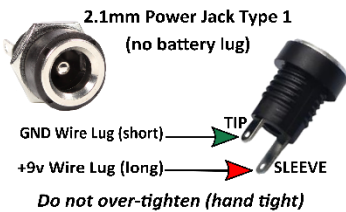
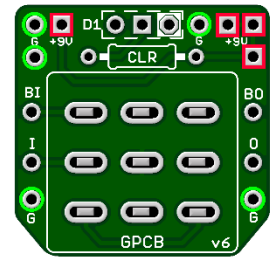
# GuitarPCB Tip Sheet



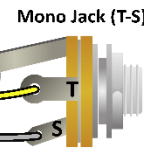
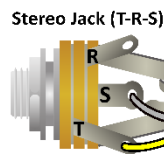
Try our 3PDT Vari-Bright version w/  
on-board Trimmer to adjust brightness



- 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

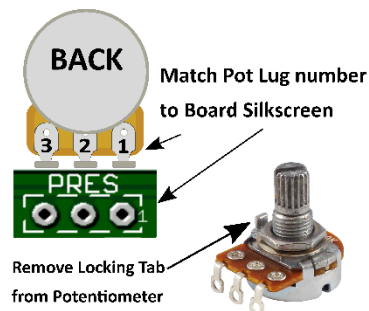


T = Tip  
R = Ring  
S = Sleeve

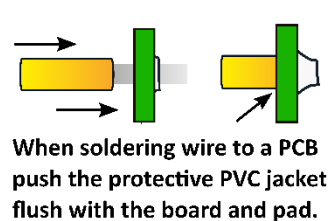
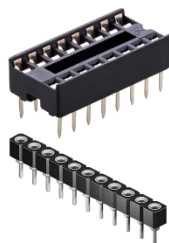


T = Tip  
S = Sleeve

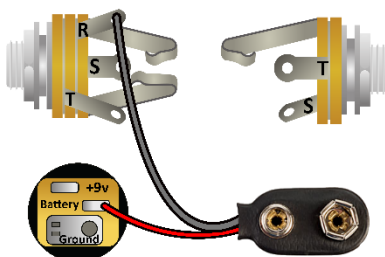
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.



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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