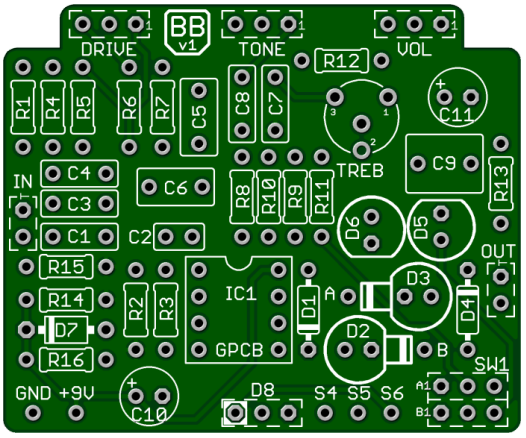
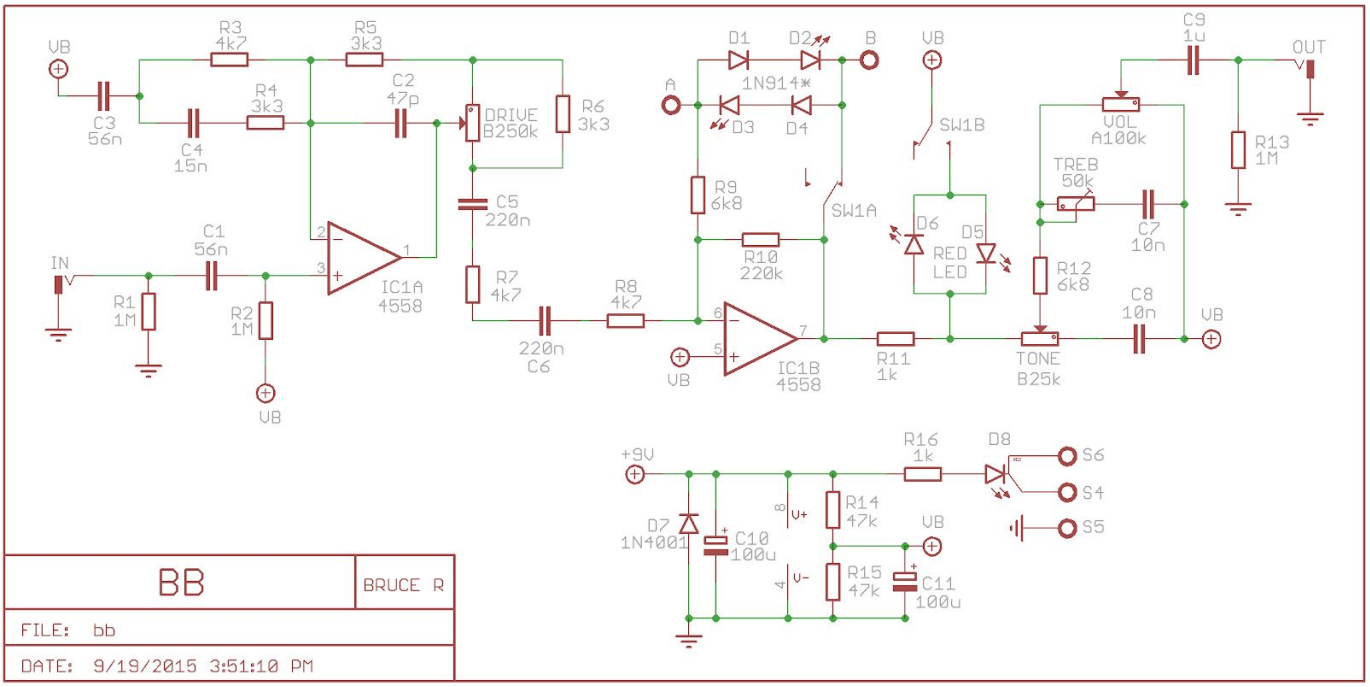
Blues Buster

As the name implies it replicates tones found in the classic pedal based on the classic Marshall amplifier Blues Breaker. In typical GuitarPCB fashion it also does a whole lot more now.

- Clipping options all Distinctive & Level Matched
- On-Board Treble Trimmer to suit any rig
- A/B Pads added for your Modding pleasure
- Add an AfterBlaster for Morning Glory Style Mod
- Create other known Boutique Combos



Board Dimensions (W x H) 1.96” x 1.62” with notched corners.
Board designed by Bruce R.



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	LED or 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	6k8	D7	1N4001	C5	220n	TONE	B25k
R6	3k3	R14	47k	D8	Bi-Color CA LED	C6	220n	TREB	50k Trim
R7	4k7	R15	47k			C7	10n	VOL	A100k
R8	4k7	R16	*1k8	IC1	4558	C8	10n	DRIVE	B250k

Blues Buster as the name implies replicates tones found in the classic pedal. In GuitarPCB fashion it does much more! The main controls are Volume, Tone & Drive. A highly flexible boost/overdrive pedal based on the classic Marshal Blues Breaker™. With the drive rolled down, you'll get a transparent gain boost. As you turn up it up, the effect transitions smoothly from a clean boost to a dirty boost to overdrive. Now to what's new…

What we have done:

- Dynamic clipping options all on board w/ switch pads. Distinctive & Level Matched
- On-Board Treble Trimmer to suit any guitar or amp rig to perfection
- A/B Pads added for your Modding pleasure
- Easily add an AfterBlaster board for our Mourning Style Mod

Build Notes:

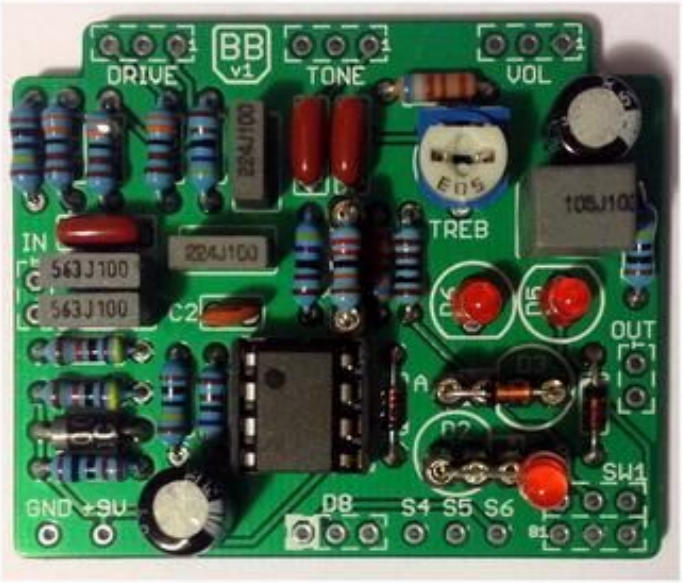
With the Treble Trimmer you may dial in any Guitar/Amp package so it is perfect for Humbuckers, Single Coil or P90's. We've taken the original design to a new level. The trimmer can also be an enclosure mounted pot.

***Please note that all kits are stock per the Bill of Materials. You are responsible for all mod parts.**

You can use any configuration of clipping diodes you prefer. We also added convenient A/B pads for the modders out there. Please note that if you use the configuration as displayed in the photo below (LEDs on one side) and (3 silicon diodes with one LED) in tandem on the other side not only will you end up with two unique and useful tones but when you switch from one clipping mod to the other there is no noticeable difference in volume! This would be a great idea to use on a DPDT footswitch as opposed to a toggle.

While there are many options to try (use sockets) here is my preferred configuration:

Create your own special variation on a theme!



Mod 2:

Add an **AfterBlaster** to your order which adds an extra **2N5457** transistor stage to get a **Mourning Style Tone** you have been wanting to try and will fit in the same enclosure. The amount of gain is also uniquely adjustable.

The **AfterBlaster** below can be used instead of your standard footswitch giving you an extra 2N5457 stage in series after the main circuit while leaving plenty of room for the main circuit above. The **AfterBlaster** also has dip switches and its own volume control to adjust the exact amount of gain you would like (how cool is that?) or turn it off via the dip switches to hear the difference or return to a more stock unit with ease.

Simply socket **R4** and find the correct resistor (a jumper to 3k) using a DMM to achieve **4.5v** to **5v** on the Drain leg of **2N5457**.

STATUS LED

D8 is a common anode bi-color LED. The diagram at right shows the pin-out, schematic symbol and pad connection for a common anode LED. The pin-out for the bi-color LED is typically (but not always) as follows:

Ā¦¨ *zvz¥ *Y¨mzdf	6¦ zx ¨mf ÑkvY¨Ò ¦ndf zk ¨mf =. , ā¦ff l¥Y¢mnbäÌ Ĉÿ dfl¥ff afxd nx ¨mf vfYd
*zwwzx !xzdf	>nddvf vfYd
āxd *zvz¥ *Y¨mzdf	ăĄdfl¥ff afxd nx ¨mf vfYd

The lead 1 pad on the circuit board is marked with a white box.

When connected correctly, the LED will light red when power is applied and the circuit is in bypass mode. The LED will light green when in effects mode. **If you wish to use a standard LED, connect the anode to the middle pad and the cathode to the (non-white) right pad to show the circuit in effects mode.** If you use a 3PDT wiring board that includes an LED, you can omit this LED and R16. *R16 is the LED's Current Limiting Resistor (CLR). If you use a different LED, you may want to change this value to adjust LED brightness.

If you are using one of GuitarPCB's handy 3PDT wiring boards, pads S4, S5, S6 and D8 would be ignored and R16 would not be installed. See wiring guide below for reference.