

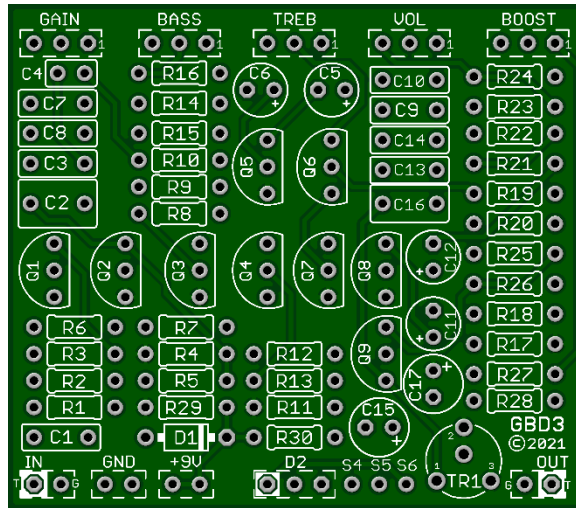
# GuitarPCB.com

## Guitar/Bass Driver v3

The Guitar/Bass Driver contains (9) transistors to deliver a larger-than-life tube-like tone found in old Ampeg™ style amps.

This circuit will make your Bass come alive and growl, but it also sounds amazing for your 6-String Guitar. It will deliver a natural sounding tube style breakup as you turn the gain up full. If you enjoy turning your gain to 10, finding a sweet spot position is easy using the volume and boost controls at 70-80% rotation, which will yield maximum drive with plenty of headroom.

### Five Controls – Gain, Bass, Treble, Volume & Boost/Enhancement



Dimensions: 2.12' X 1.87"

Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	2M	R13	2k	R25	33k	C6	4u7	TR1	20k
R2	1M	R14	100k	R26	1M	C7	1n	D1	1n4001
R3	47k	R15	4k7	R27	*22-33k	C8	4n7	D2	Status LED
R4	1M	R16	200k	R28	1k	C9	1n		
R5	1M	R17	1M	R29	47R	C10	10n	TREB	A1M
R6	22k	R18	1M	R30	*1k8	C11	4u7	VOL	B100k
R7	200k	R19	10k			C12	4u7	BASS	A1M
R8	4k7	R20	4k7	C1	*100n	C13	2n2	BOOST	A100k
R9	*22k	R21	10k	C2	470n	C14	2n2	GAIN	A1M
R10	100k	R22	10k	C3	*100n	C15	22u		
R11	1M	R23	100k	C4	47p	C16	*100n	Q1 - Q8	2N5457
R12	1M	R24	100k	C5	1u	C17	100u	Q9	J113

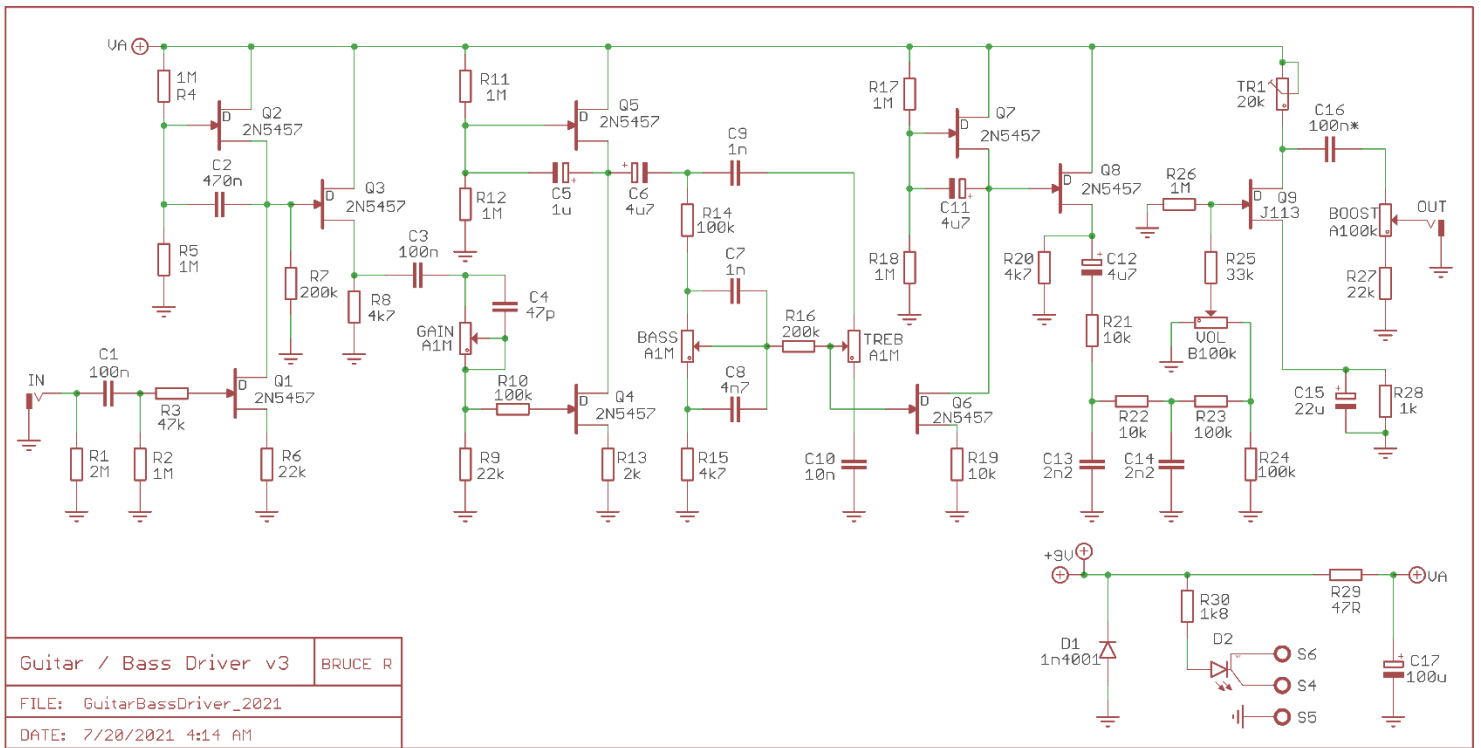
### Build Notes on Modifications:

\***R27** uses a value from 22k to 33k. 33k will start the rotation with the most amount of Boost /Enhancement. 22k will start attenuating very slightly. Any value between 22k and 33k will work absolutely fine.

\***R30** – 1k8 is the CLR (current limiting resistor) for the Status LED. This is bright. Higher value will be dimmer.

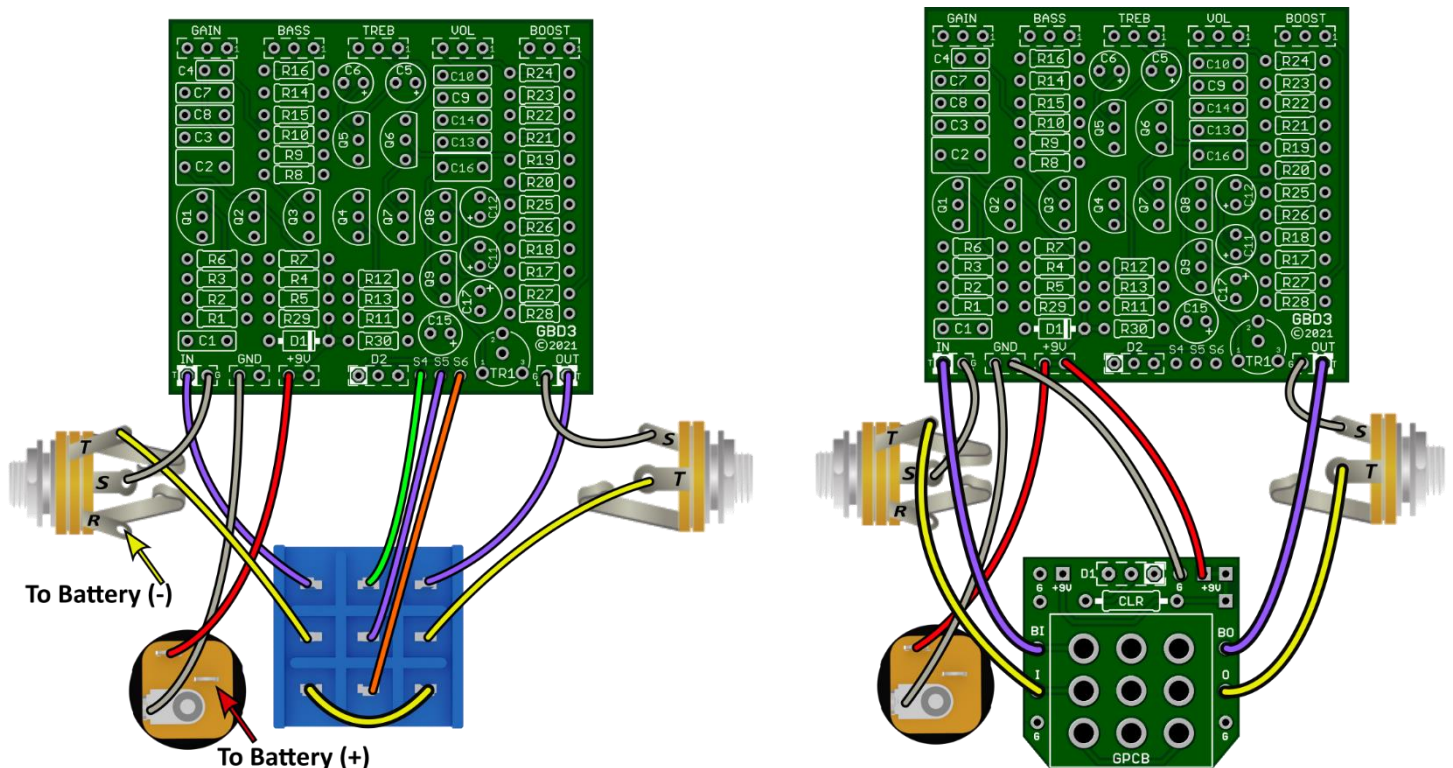
\***C1, C3 & C16** – 100n. These are coupling capacitors and can be raised to 220n if you want even more Bass.

# SCHEMATIC



## Build Notes:

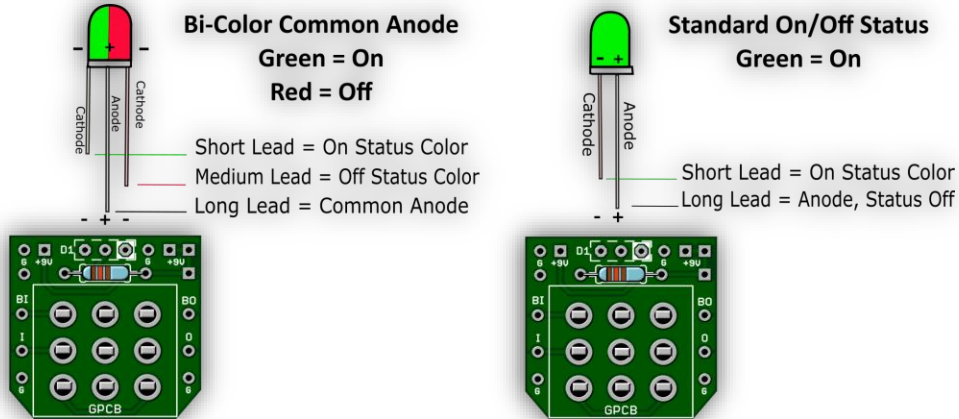
- This build has values of **47R** (Ohm), **4.7k** (4k7), and **47k** – Please be careful not to mix these up!
- \***R9** may be Modded. It allows more or less Gain. Lower to 15k is less. Raise to 27k for more. Results vary.



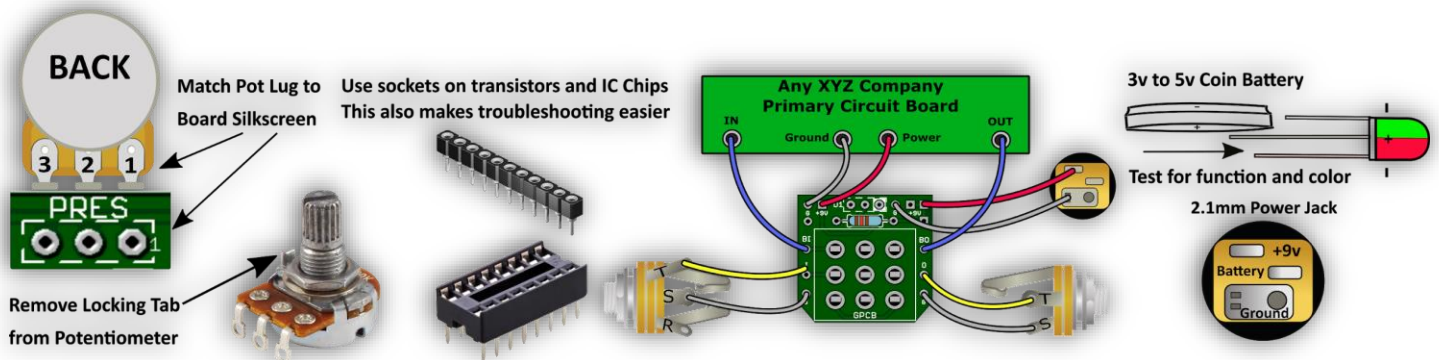


Be sure your In/Out Jack wiring is correct. A Stereo Jack (for battery use only) has a RING lug which is used to connect to the battery ground. If not using a battery there is no need for a Stereo Jack. If using Stereo then only use the Tip and Sleeve lugs. S4, S5 & S6 is only needed when the LED is wired to the Main Board.

If using our convenient 3PDT Wiring Boards (below) here is an LED wiring guide.



Note: If wiring the LED to our 3PDT board no need to connect S4, S5 & S6 or populate D2 or R30 (CLR) on the main board since you are wiring your LED directly to our board.



Need a kit? Check out our authorized worldwide distributors:

USA – Check out [PedalPartsAndKits](http://PedalPartsAndKits.com) for all your GuitarPCB kit needs in the USA.

Europe – [Das Musikding](http://DasMusikding.com) Order either boards or kits direct from Europe.

[PedalPartsAustralia](http://PedalPartsAustralia.com) - Order either boards or kits direct from Australia

If they do not have a KIT listed send them a note asking if they can help you out.



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