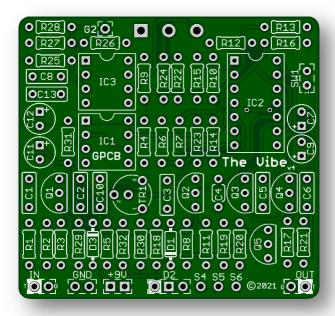
The Vibe v4 2021

Do you remember those Vibe tones inspired by guitar greats like Trower, Gilmour and Hendrix? Now you can build your very own Vibe pedal without the complexity of a large board or huge part count. A Vibe is essentially a Phaser and we have 12 years' experience tweaking this circuit to give you the best Vibe tones.



Board Dimensions (W x H) 2.12" x 2.00"

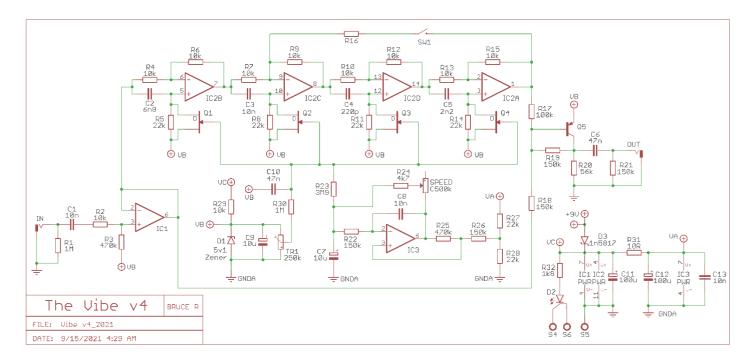
Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R12	10k	R23	3M9	C2	6n8	C13	10n
R2	10k	R13	10k	R24	4k7	C3	10 n	D1	1n4733
R3	470k	R14	22k	R25	470k	C4	220p	D2	Status LED
R4	10k	R15	10k	R26	150k	C5	2n2	D3	1n5817
R5	22k	R16	omit	R27	22k	C6	47n	Q1-Q4	*2N5952
R6	10k	R17	100k	R28	22k	C7	10 u	Q5	2N4125
R7	10k	R18	150k	R29	10k	C8	10n	IC1	TL071
R8	22k	R19	150k	R30	1M	C9	10u	IC2	TL074
R9	10k	R20	56k	R31	10R	C10	47n	IC3	TL061
R10	10k	R21	150k	R32	1k8	C11	100u	SPEED	C500k
R11	22k	R22	150k	C1	10n	C12	100u	TR1	250k

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) SW1 pads are not used in this build. We do suggest the 2 Stage / 4 Stage Mod for excellent results.

New in this GuitarPCB 2021 version release:

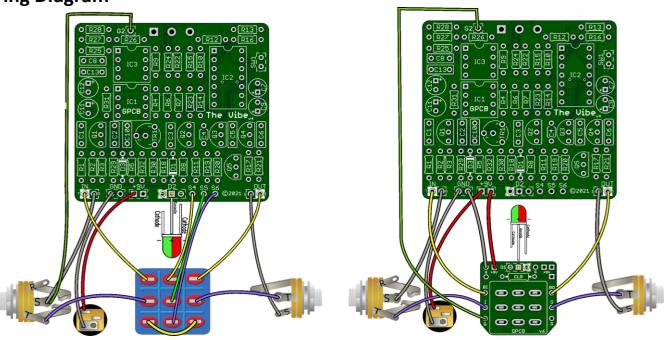
- Added 1N5817 circuit protection diode which is superior.
- Added an on-board potentiometer.
- Larger off-board wiring pads.
- Added extra +9v and Ground pads for "Combo Builds" allowing easy wiring options and connectivity.



Build Notes:

- There are two mandatory ground pads, GND & G2. Both grounds must be connected for proper function.
- *Q1 through Q4 Requires (4) Genuine Matched 2N5952's. GuitarPCB carries quality <u>Hand Matched Sets.</u>
- SW1 is not used in this build. Leave Pads Open. / A 5.1v Zener Diode is required 1N4733 suggested.
- Omit SW1 as well as R16 (no jumpers). We love Wilkie1's Mod for a true 2 Stage / 4 Stage effect. See page 3.
- For a tighter SPEED control, you may use an A100K. This reduces the amount of the slow region available in the rotation of the potentiometer which is not as noticeable.
- Pedal Placement is important. Test both Pre and Post Distortion for different tonal characteristics.
- Q5 is a general purpose PNP silicon transistor; possible substitutes are 2N3906, 2N5087, BC559B.

Wiring Diagram



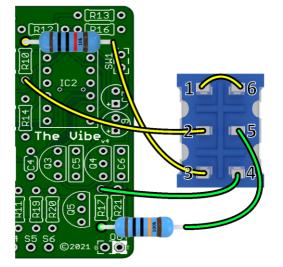
*STATUS LED

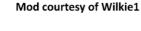
Note: If you are using our 3PDT board, you should omit wires and parts from S4, S5 & S6, D2 and R32 (CLR). The CLR and LED will be populated on the 3PDT board instead.

2 Stage / 4 Stage Mod

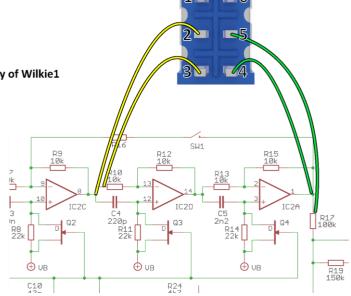
The Vibe operates normally with 4 independent stages. With this Mod you can switch it to 2 stages. Follow the instructions for a more versatile Vibe.

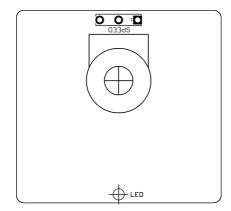
When the switch is connecting Lugs 1-2 and 5-6 it will be in 2 Stage Mode. Flip the switch and you will be back in stock 4 Stage Mode. Note: There will be a slight "pop" if you switch while the pedal is on. This is normal. Simply turn the pedal off before switching.





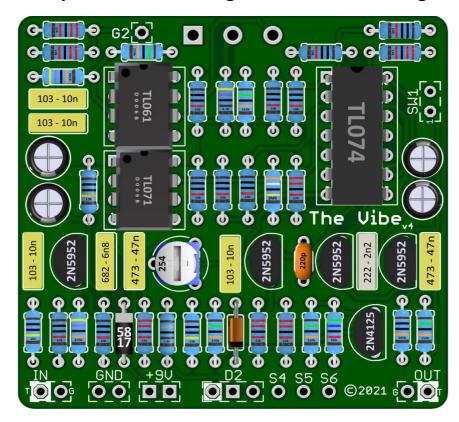
- 1. Lift R10 as shown and connect the lead to Lug 3 of the DPDT
- 2. Connect the empty pad of R10 to Lug 2 of the DPDT
- 3. Lift R17 as shown and connect the lead to Lug 5 of the DPDT
- 4. Connect the empty pad of R17 to Lug 4 of the DPDT
- 5. Add a Jumper from Lug 1 to Lug 6.





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. <u>Verify everything before drilling</u>.

Populated Board Image for Troubleshooting



For more build guides and tutorials please visit the <u>Guides Page</u> at GuitarPCB.com For specific build support please visit our dedicated <u>Support Forum</u> <u>Soldering Tutorial on YouTube</u>

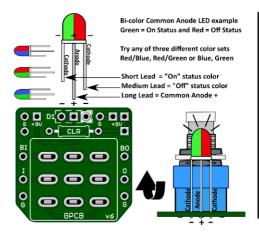
Need Kits - Check out our authorized worldwide distributors:

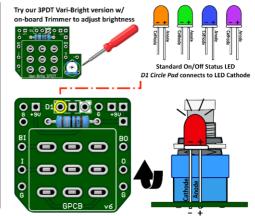
- USA Check out <u>PedalPartsAndKits</u> for all your GuitarPCB kit needs in the USA.
- Europe <u>Das Musikding</u> Order either boards or kits direct from Europe.
- PedalPartsAustralia Order either boards or kits direct from Australia

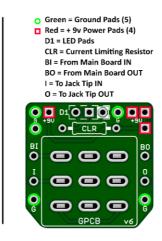
COLOR	1st Band	2nd Band	3rd Band	Multiplier	Tolerance	Band 1 Band 3 Tolerance
BLACK	0	0	0	1Ω		<u> </u>
BROWN	1	1	1	10Ω	±1%	
RED	2	2	2	100Ω	±2%	470k
ORANGE	3	3	3	1ΚΩ		47
YELLOW	4	4	4	10ΚΩ		
GREEN	5	5	5	100ΚΩ	±0.5%	 Band 2 Multiplier
BLUE	6	6	6	1ΜΩ	±0.25%	Band 2 Manupher
VIOLET	7	7	7	10ΜΩ	±0.10%	
GREY	8	8	8	100ΜΩ	±0.05%	
WHITE	9	9	9	1GΩ		4 7 0×≅R≊
GOLD				0.1Ω	±5%	4 4
SILVER				0.01Ω	±10%	

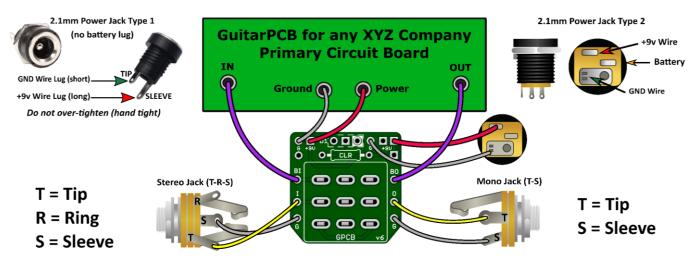


GuitarPCB Tip Sheet

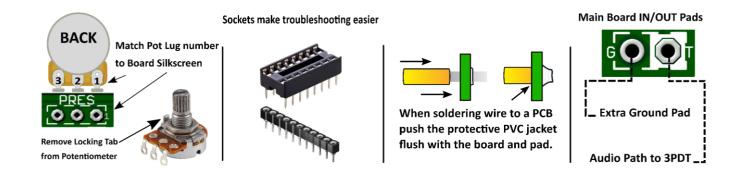


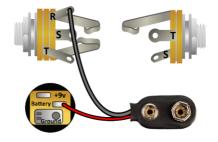






Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit indiviual needs.





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

