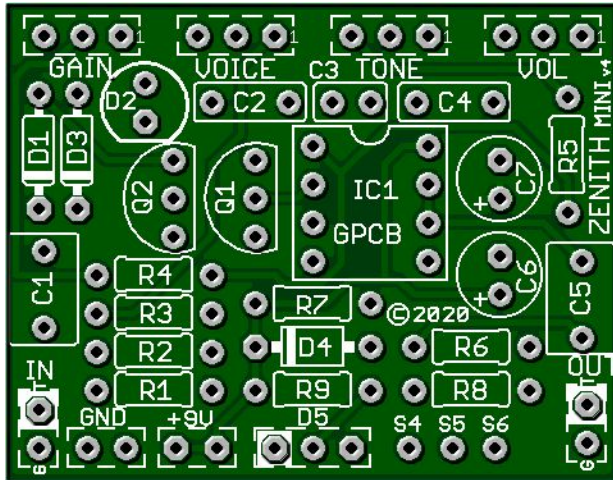


Zenith Mini

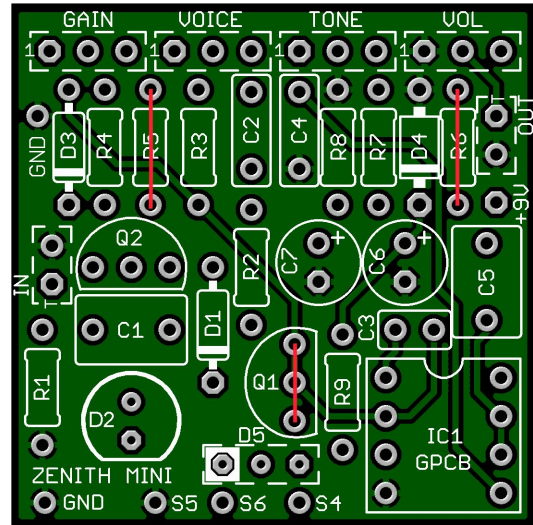
Based on the Zen Drive™ this circuit is a dynamic, touch-sensitive overdrive pedal. Inspired by a legendary Dumble amplifier & guitarist, the **Zenith Mini** will allow you to dial in amazing blues, rock, country and jazz tones. Are you looking for a pedal circuit to produce Dumble style tones? **This is the one!**

Also note the new TimZee style mod on page 4 of this build document. (Mods are not included with kits)

New v4 2020 Version



Previous Mini Version



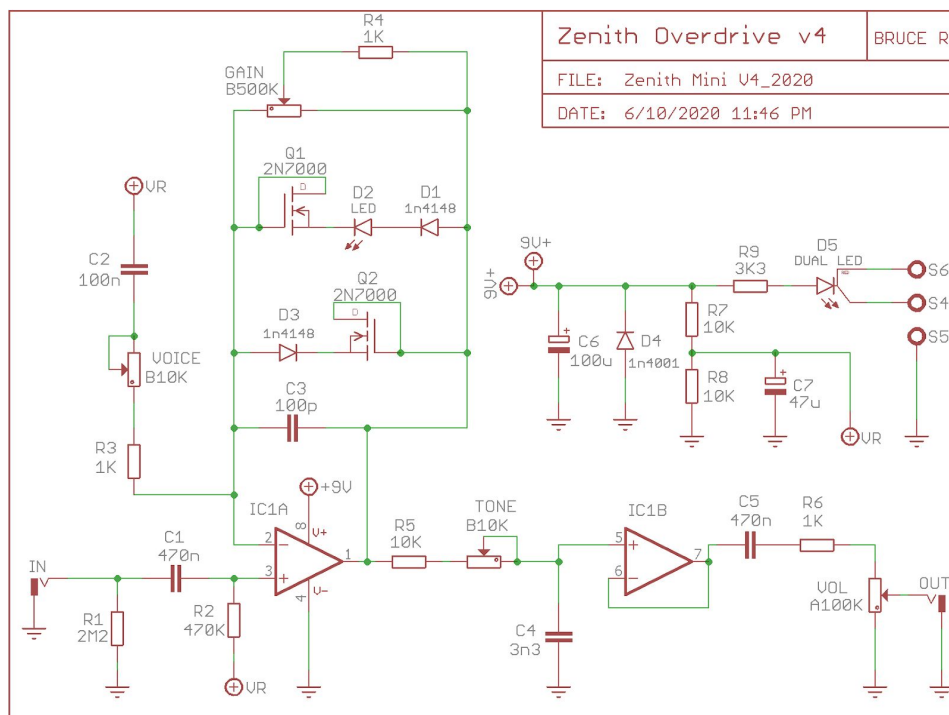
Board Dimensions (W x H) 1.59" x 1.25"

(W x H) 1.36" x 1.36"

Bill of Materials is identical for either Mini Version

Part	Value
R1	2M2
R2	470K
R3	1K
R4	1K
R5	10K
R6	1K
R7	10K
R8	10K
R9	3K3
D1	1n4148
D2	LED or jumper
D3	1n4148
D4	1n4001
D5	Bi-Color LED Comm. Anode

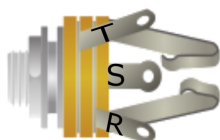
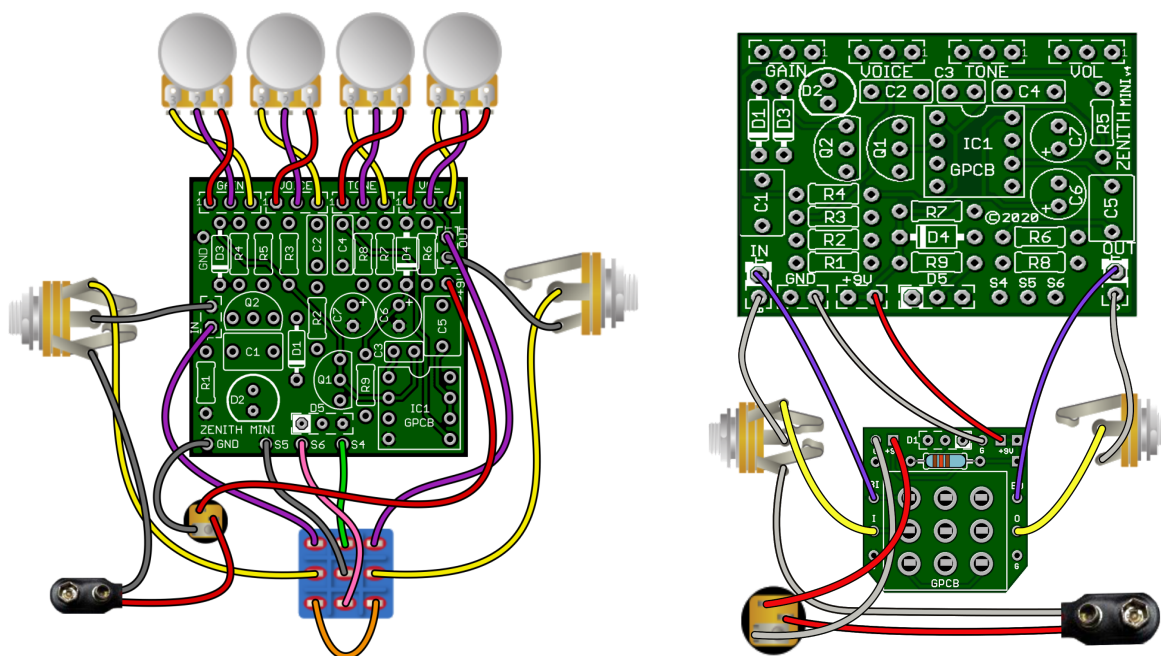
Part	Value
IC1	TL072
Q1	2N7000
Q2	2N7000
C1	470n
C2	100n
C3	100p
C4	3n3
C5	470n
C6	100u
C7	47u
Volume	A100K
Gain	B500K
Tone	B50K
Voice	B10K



Build Notes:

- We like using the LED for D2 in this build, but if you like a more stock-sounding pedal, put in the Jumper instead.
- To experiment we advise the use of sockets. Also note the TimZee Mod below for further experimentation.
- While the board is small enough for a 1590A enclosure because it uses four potentiometers we only suggest this if you are experienced at working small enclosures.

Wiring Diagram

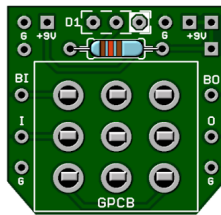
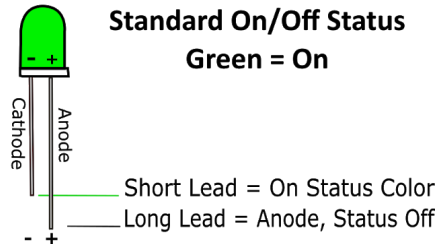
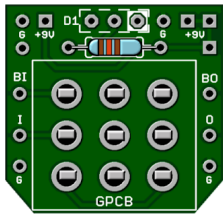
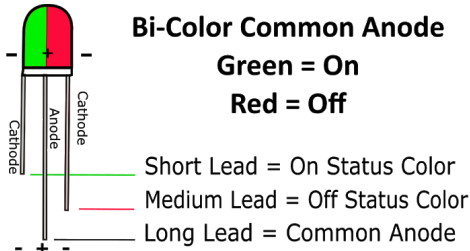


Be sure your In/Out Jack wiring is correct. A Stereo Jack (for battery use only) has a RING lug which is used to connect to the battery ground. If you do not intend to use a battery there is no need for a Stereo Jack. If using Stereo then only use the Tip and Sleeve lugs. S4, S5 & S6 is only needed when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

If using our convenient 3PDT Wiring Boards (below) here is an LED wiring guide. You may use Common Anode Bi-Color or Standard On/Off. The wiring boards use the same symmetrical layout as if wiring straight to the switch.



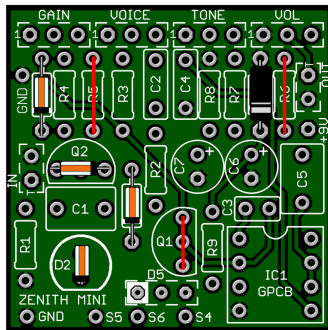
Use the Board Silkscreen for hand wiring potentiometers & switches. (1) in the silkscreen means Potentiometer Lug 1.



Note: If wiring the LED to our 3PDT board no need to connect S4, S5 & S6 or populate D5 or R9 (CLR) on the main board since you are wiring your LED directly to our board.

Direct Online Link: [3PDT Wiring Board Build Document](#)

TimZee style Mod



Apply these (8) changes to the Zenith Mini for a more transparent style tone. Everything else remains stock to original layout. Follow Diode orientation!

1N4001 1N4148 Jumper

Mod: Thanks to Tubenit try his **TimZee Mod** - This is a unique mash-up mod based on two popular circuits. **This mod is not to be misrepresented however it is a fun way to try a "Transparent Version" of this circuit.** The mod has been verified.

This Mod can be done on the v4 2020 version as well. All component numbers are the same.

Before beginning any build or if you have questions please see our Guides Page on our site. The Guides Page is located in the Main Menu Bar of most pages. Also we have a dedicated forum for questions about your build.



[Soldering Tutorial on Youtube](#)

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