

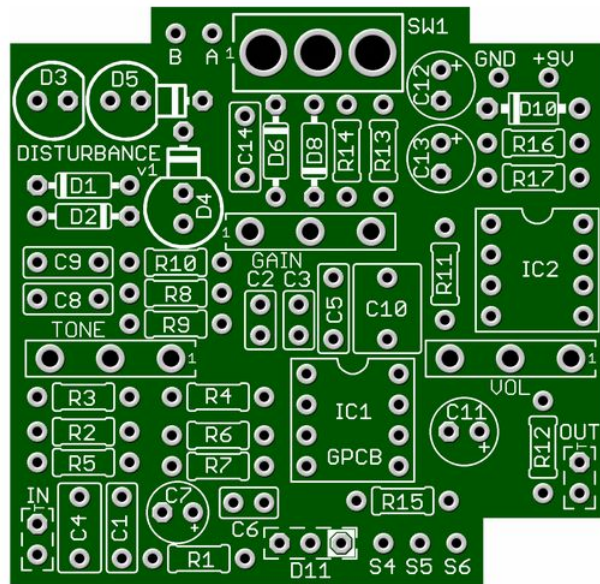
Disturbance by GuitarPCB

The Disturbance is a Medium Gain to Distortion level circuit with three separate clipping options. Includes on-board pots and on-board toggle switch holes that accepts the more affordable switch type with solder lugs.

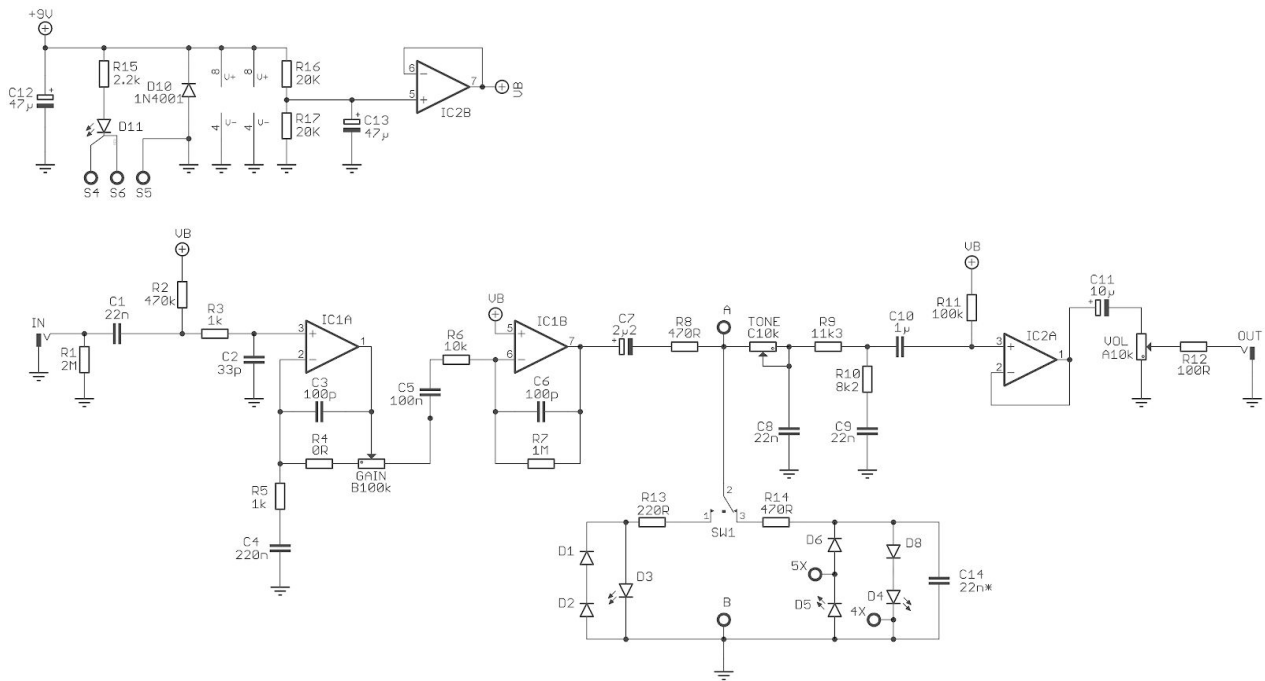
This circuit while based off of a known boutique circuit (the Riot™) it has been tweaked for the best possible tones. This is not to be misrepresented as a clone, but a variant of the original circuit. GuitarPCB is not affiliated with Suhr™

It is so easy to Mod it to your own desired configuration: Asymmetrical, Symmetrical utilizing many Diode configurations. Additionally we have added our well known A/B pads to allow even further modding of the circuit with ease.

Consider a **Roto-Tone** and own it!



Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
D1	1n914	R1	2M to 2M2	R10	8k2	C1	22n	C10	1μ
D2	1n914	R2	470k	R11	100k	C2	33p	C11	10μ
D3	BLUE	R3	1k	R12	100R	C3	100p	C12	47μ
D4	RED	R4	Jumper	R13	220R	C4	220n	C13	47μ
D5	RED	R5	1k	R14	470R	C5	100n	C14	22n*
D6	1N34A	R6	10k	R15	2.2k	C6	200p	VOL	A10k
D8	1N34A	R7	1M	*R16	20K/22k	C7	2μ2	GAIN	B100k
D10	1n4001	R8	470R	*R17	20K/22k	C8	22n	TONE	C10k
D11	Bi-Color CA LED*	R9	11k3	IC1 & IC2	4558	C9	22n	SW1	SPDT On-Off-On



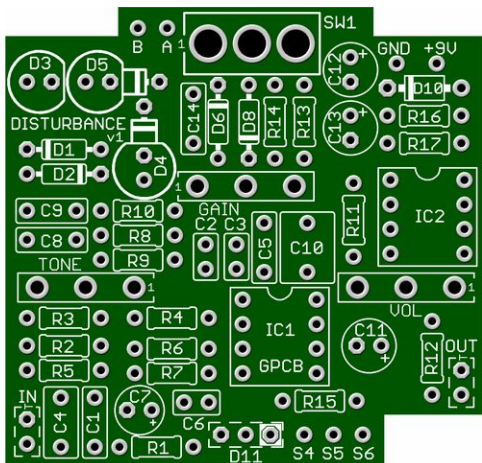
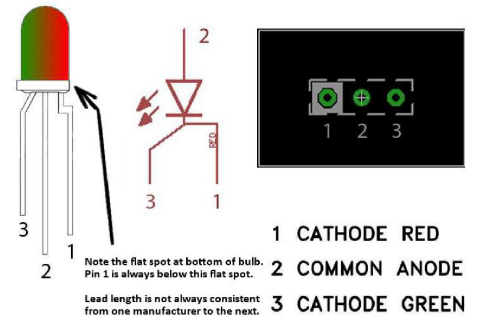
* **Note:** You may use a pair of 20k or 22k for the R16 and R17 voltage divider. Based on your stock.

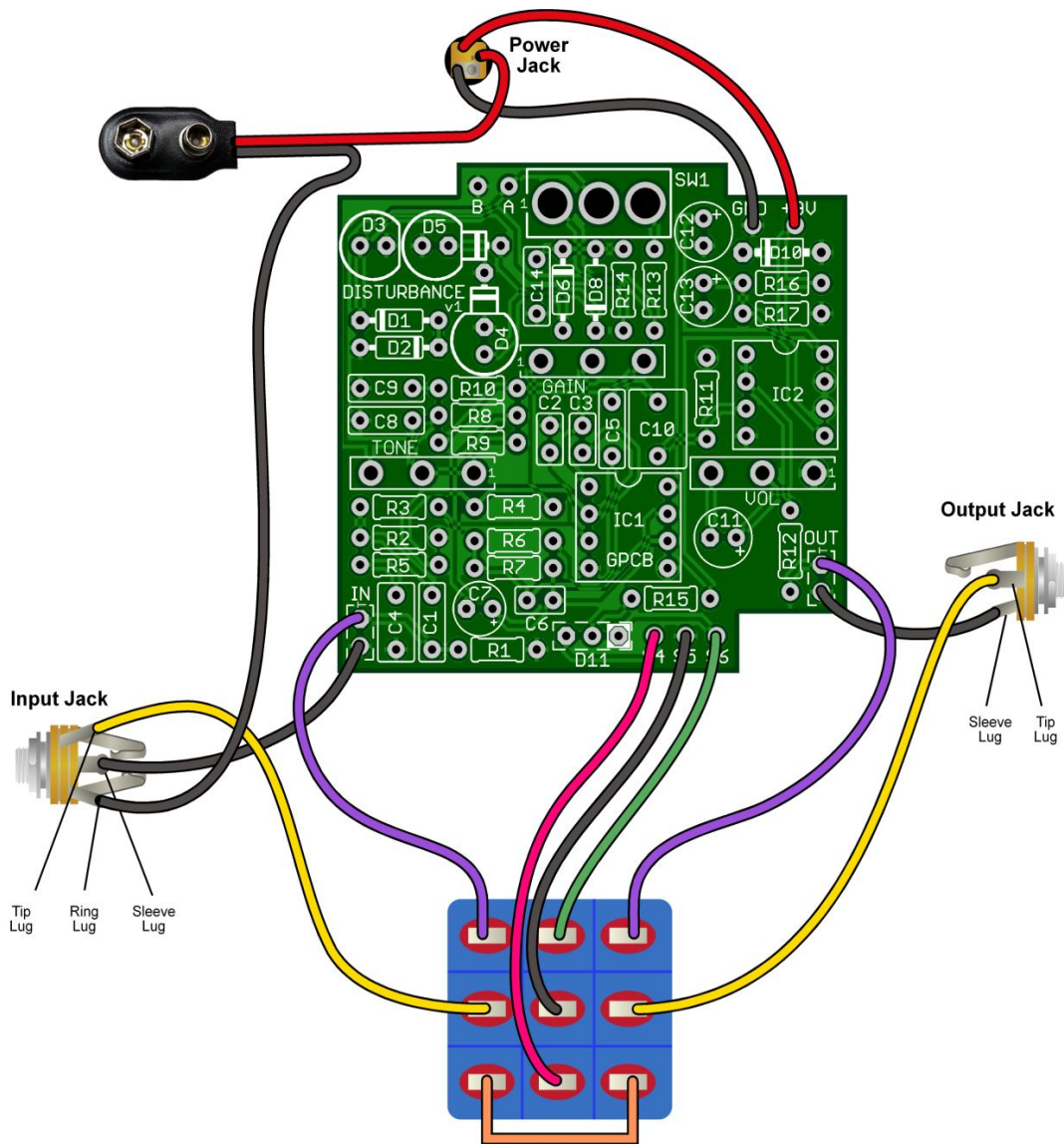
STATUS LED

D11 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 as follows:

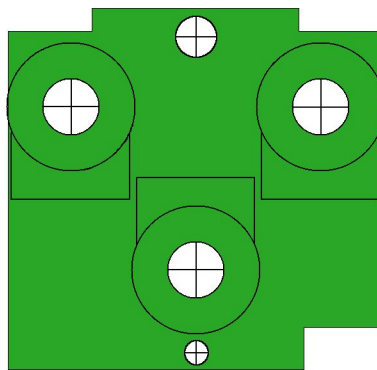
- 1st Color Cathode Is on the “flat” side of the LED (see graphic); 90 degree bend
- Common Anode Middle lead
- 2nd Color Cathode 45 degree bend in the lead
- The lead 1 pad on the circuit board is marked with a white box.

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 right pad (non-white) to show the circuit in effects mode.** If you use a 3PDT wiring board that includes an LED, you can omit this LED and R15. R15 is the LED’s Current Limiting Resistor (CLR).





DRILLING GUIDANCE FOR POTS and LED



Cut out for drill template (Be sure to match with your board)
Secure pots to enclosure before soldering to the main board.
Drill enclosures safely and at your own risk. Holes can be drilled large for wiggle room.

[Soldering Tutorial on Youtube](#)

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Europe – [Das Musikding](#) Order either boards or kits direct from Europe.

[PedalPartsAustralia](#) - 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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