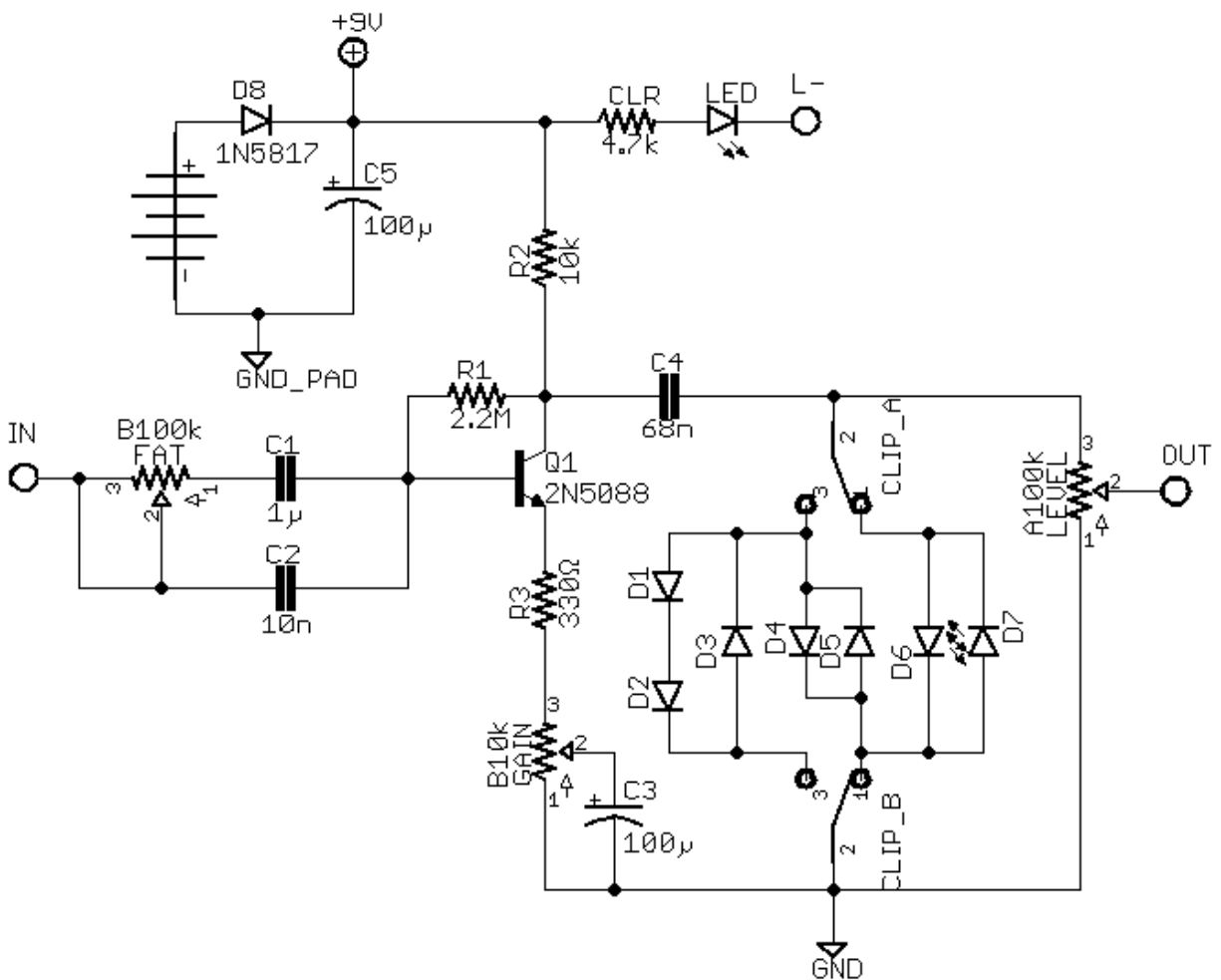


# UltraLectra

## DESCRIPTION

The ULTRALECTRA is a great beginner project and is ripe for experimentation. It's based on the classic Electra Distortion circuit with a few mods—the added Fat control at the input (blends in a larger input capacitor for a fatter sound), and clipping switch at the end of the circuit (this uses a DPDT on/on/on switch for 3 different clipping options). Grab some sockets and experiment if you like, or build it as outlined here.

## SCHEMATIC



## BILL OF MATERIALS

### Resistors

R1	2.2M
R2	10k
R3	330Ω
CLR	4.7k

### Capacitors

C1	1μ
C2	10n
C3	100μ
C4	68n
C5	100μ

### Semiconductors

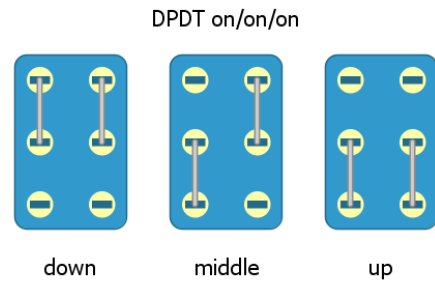
D1-3	1N60P
D4-5	BAT41
D6-7	3mm red LEDs
D8	1N5817
LED	3/5mm LED
Q1	2N5088

### Electromechanical

Fat	B100k
Gain	B10k
Level	A100k
Clip	DPDT on/on/on

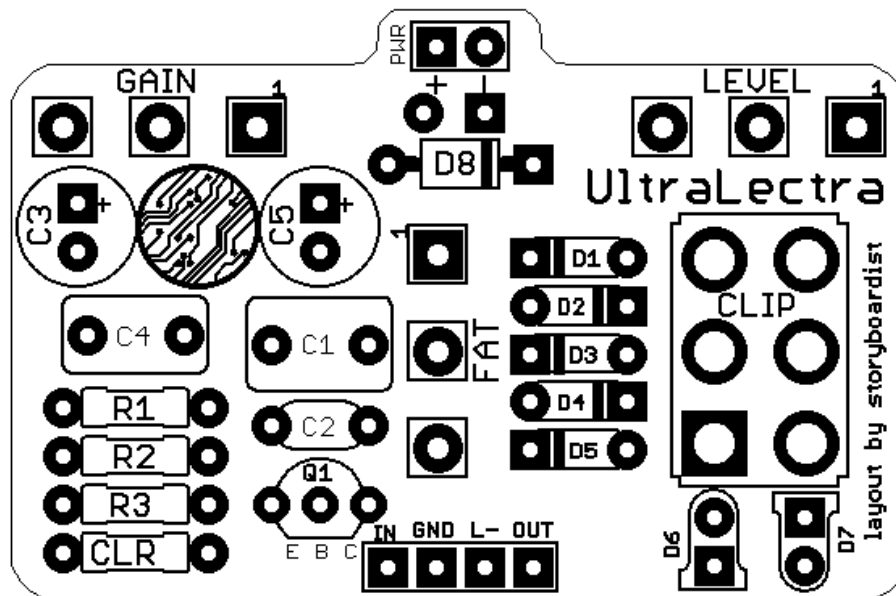
### Notes

The clipping switch needs to be a type 2 switch where the lugs are connected like the following diagram (check with a multimeter):

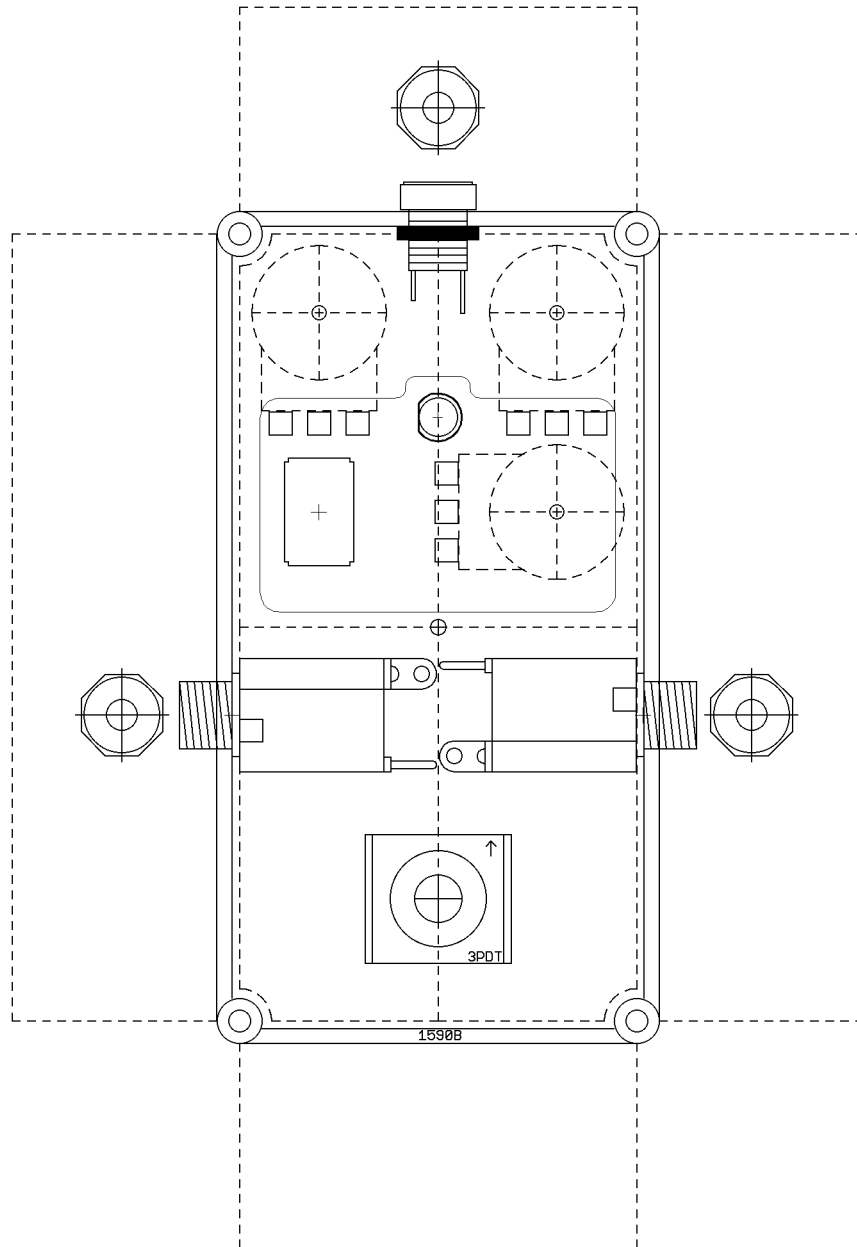


If you're unable to find this type of switch or just want to use a DPDT on/on, omit D4-5.

## LAYOUT



**DRILL TEMPLATE (1590B)**



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Not for non-peer to peer resale.