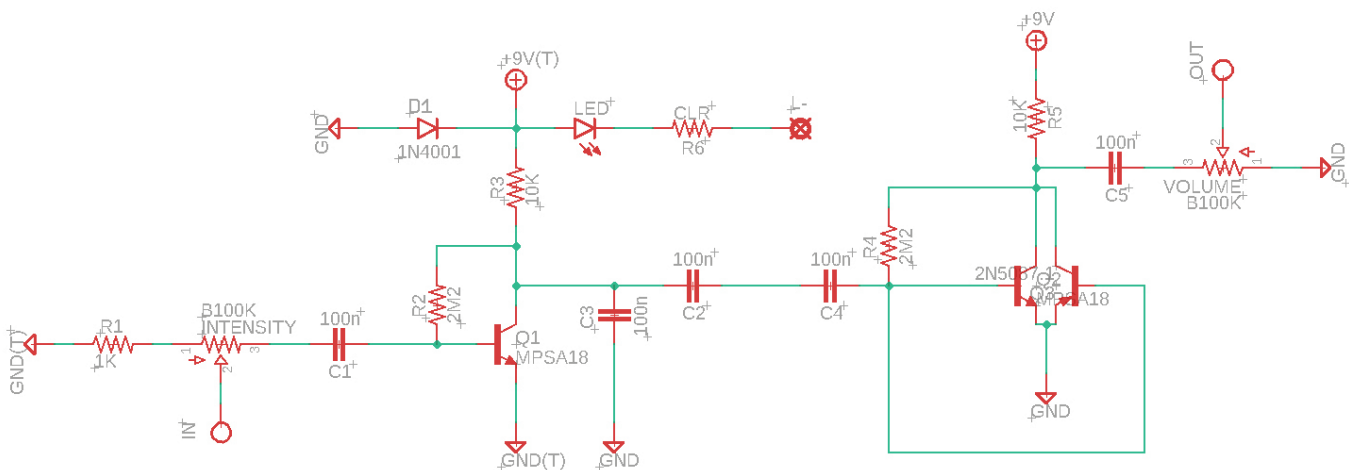
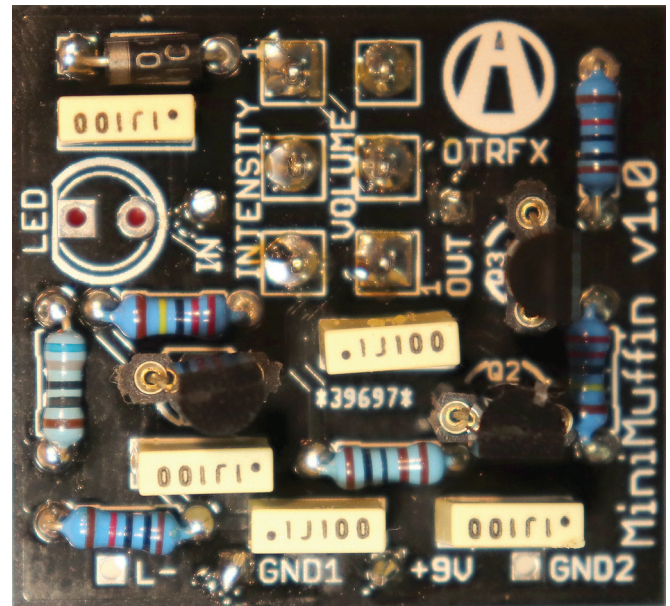
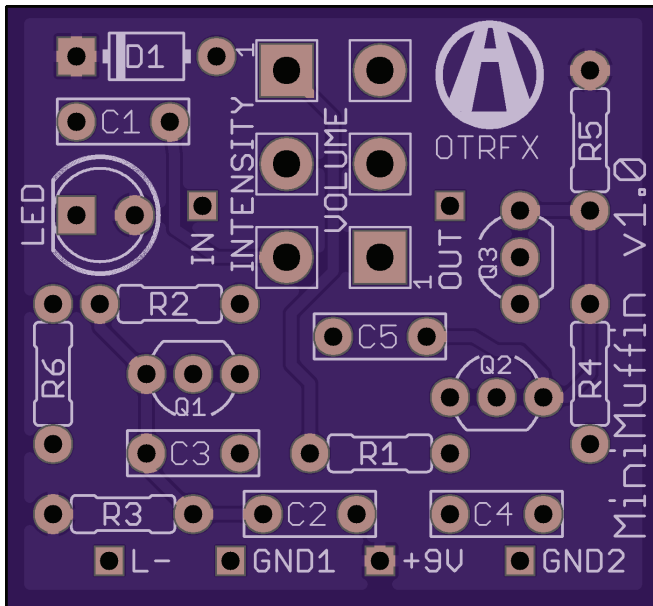




MiniMuffin (v1.0) Build Guide



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The MiniMuffin is based on the Devi Ever Hyperion fuzz, often referred to as the 'Big Muff Killer', although I would argue this undercuts the uniqueness of this effect. The thick, heavily-saturated fuzz of the MiniMuffin has a raw, gnarly quality that is extremely interactive with your picking dynamics, and has an octave-up-like character. It's also delightful as a bass guitar distortion, and perfect for drop-tuned or baritone guitars. Finally, it plays very well with the volume control on your instrument.

Resistors

R1	1K
R2	2M2
R3	10K
R4	2M2
R5	10K
R6	CLR*

Diodes

D1	1N4001
D2	LED

Capacitors

C1	100n	FILM
C2	100n	FILM
C3	100n	FILM
C4	100n	FILM
C5	100n	FILM

Potentiometers

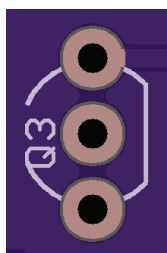
VOLUME	B100K
INTENSITY	B100K

Transistors

Q1	MPSA18
Q2	MPSA18
Q3	2N5087**

* CLR = Current Limiting Resistor for the LED.
1k - 4.7k depending on desired brightness.
(lower resistor value = brighter)

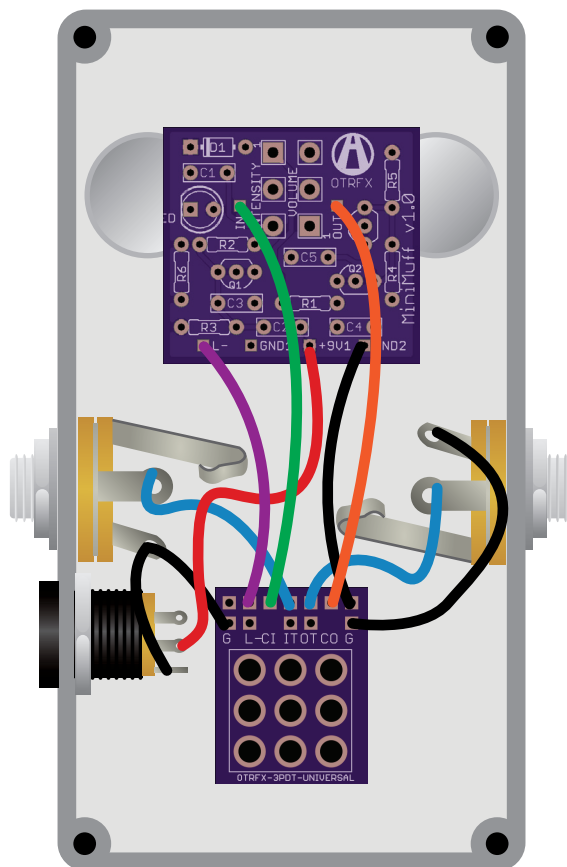
** The transistor Q3 can also be a 2N907A, which is typically an EBC pinout, but check your pinout to confirm!



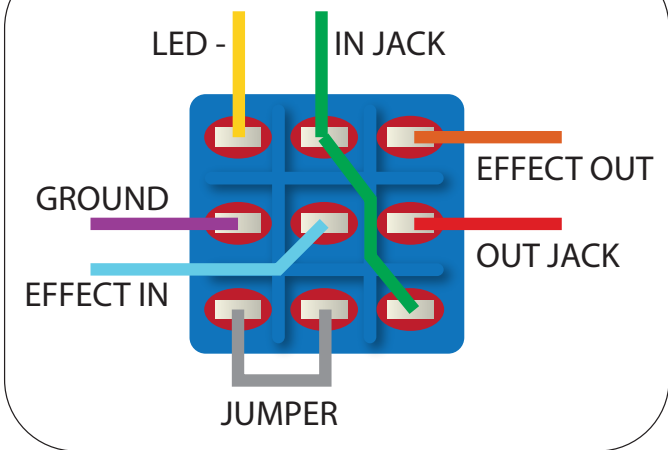
MiniMuffin Build Notes:

- The LED pads are placed directly over a pot, so it would be best to wire the LED from the top side before installing the pot, then choose where on the pedal you would like your LED placement.
- Be sure to insulate the back of the pots, so they do not touch any of the solder joints!
- The PCB is small enough to use top-mounted jacks, if that's your thing. Adjust the drill holes accordingly.

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True Bypass Wiring



MiniMuffin (v1.0) Build Guide

GENERAL INSTRUCTION STEPS:

Important: do the assembly in the following order to avoid unnecessary hardship!

1. Install/solder all resistors & diodes that lay flat on the PCB.
2. Install/solder any sockets (for IC's, diodes, resistors.. anywhere you might want to change a part, value or type).
3. Install/solder any DIP switches (if any).
4. Install/solder all capacitors & transistors.
5. Install/solder ribbon cable connector and/or any other wiring on the PCB which go to the jacks/stomp switch.
6. Install/solder PCB mounted pots & LED.
(**Important:** use pot dust caps or some other non-conductive material to keep back of pots from touching the back of the pcb)
7. Attach/solder wiring to the jacks & stomp switch.



TIPS:

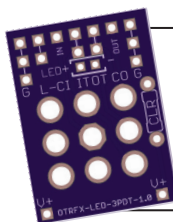
- Check to make sure your wiring is complete before firing up the pedal for the first time, especially the 9V & ground wiring.
- Snip your component leads short after soldering. Your solder joints should look like shiny little Hershey's Kisses when finished.
- Socket anything you might want to change, or anything that would be very difficult to remove if faulty (IC's/transistors).

RESOURCES:

Parts Ordering:	Website:	Specialties:
Tayda Electronics	taydaelectronics.com	resistors, capacitors, diodes, sockets, LEDs, pots, knobs
Mouser	mouser.com	resistors, capacitors, IC's
Love My Switches	lovemyswitches.com	switches, knobs, enclosures, pre-wired LEDs
Small Bear Electronics	smallbear-electronics.mybigcommerce.com	hardware, knobs, rare and vintage diodes, transistors & IC's



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Drilling Template

1590B Enclosure

