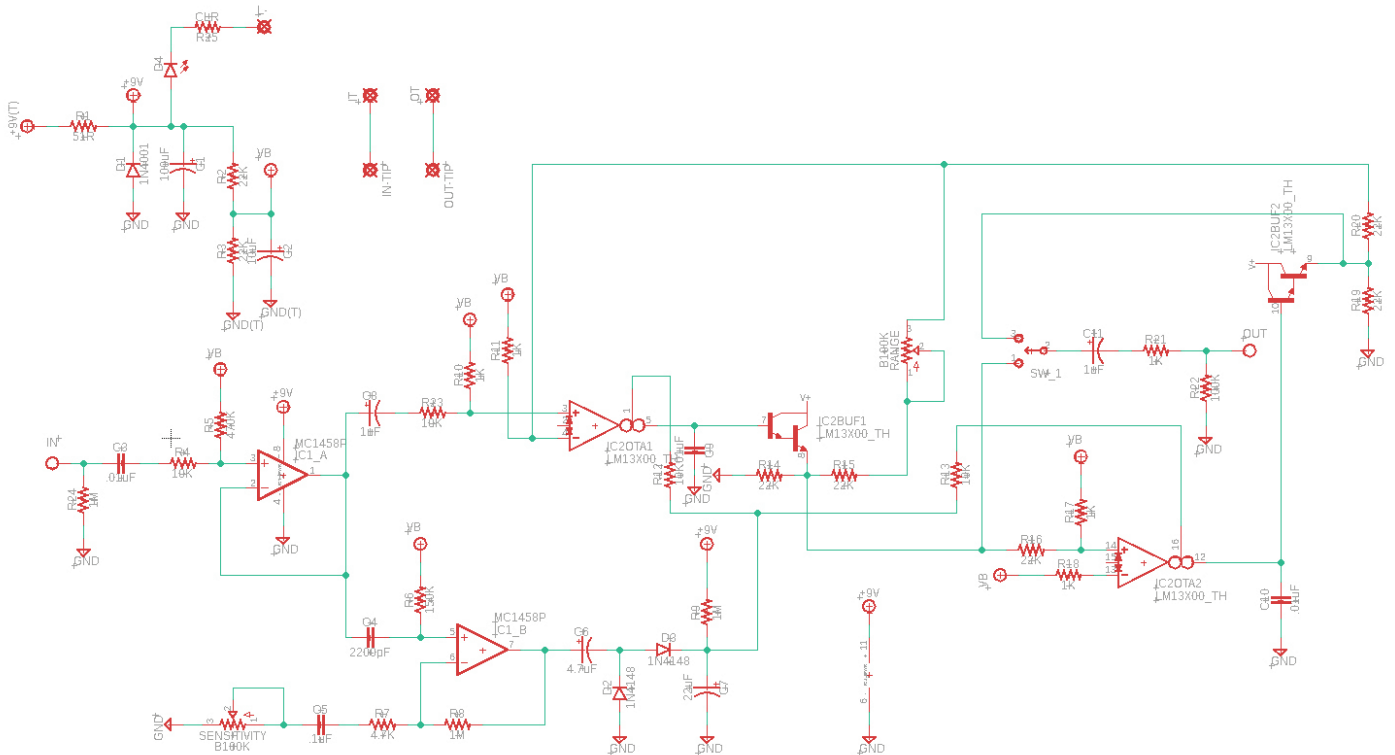
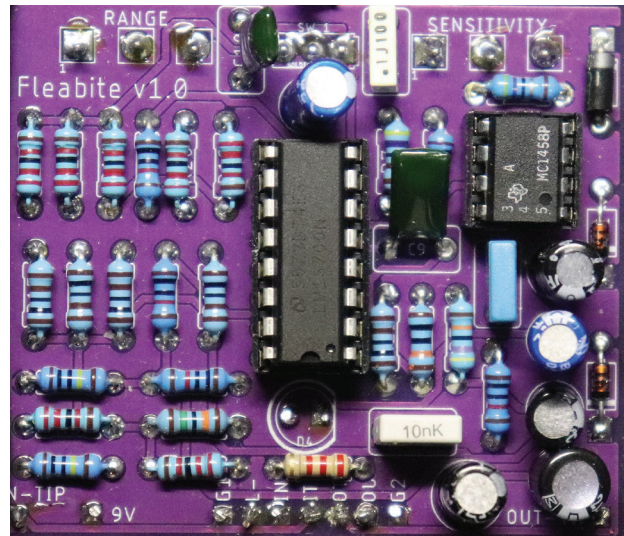
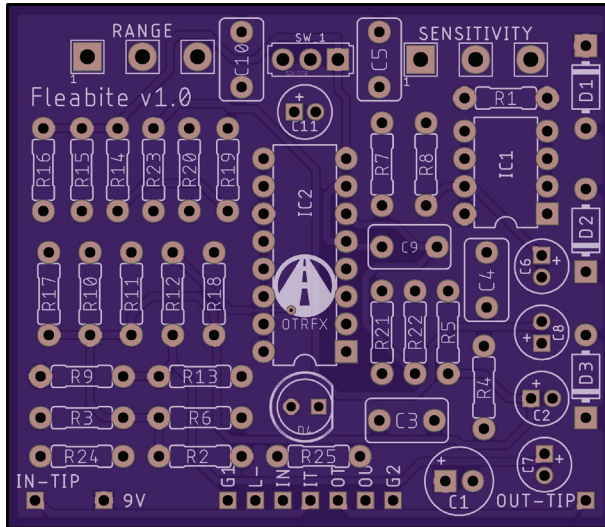




Fleabite (v1.0) Build Guide



Fleabite (v1.0) Build Guide

The Fleabite is a modded version of the original FX-25 envelope filter (auto-wah), which is a favorite of Flea, bassist of the RHCP, and many other famous bassists and guitar players. It works exceptionally well on both guitar and bass, and to that end, this updated version adds a guitar / bass (low-pass) filter toggle switch for even more optimized performance.

Resistors

R1	51R
R2	22K
R3	22K
R4	10K
R5	470K
R6	150K
R7	4.7K
R8	1M
R9	1M
R10	1K
R11	1K
R12	10K
R13	10K
R14	22K
R15	22K
R16	22K
R17	1K
R18	1K
R19	22K
R20	22K
R21	1K
R22	100K
R23	10K
R24	1M
R25	CLR*

Diodes

D1	1N4001
D2	1N4148
D3	1N4148
D4	LED

Capacitors

C1	100uF	Polarized Electro
C2	10uF	Polarized Electro
C3	10n	Film
C4	2.2n	Film
C5	100n	Film
C6	4.7uF	Polarized Electro
C7	22uF	Polarized Electro
C8	1uF	Polarized Electro
C9	10n	Film
C10	10n	Film
C11	1uF	Polarized Electro

Switches

SW1 (Filter)	SPDT Sub-Mini Toggle (On-On)
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Potentiometers

RANGE	B100K
SENSITIVITY	B100K

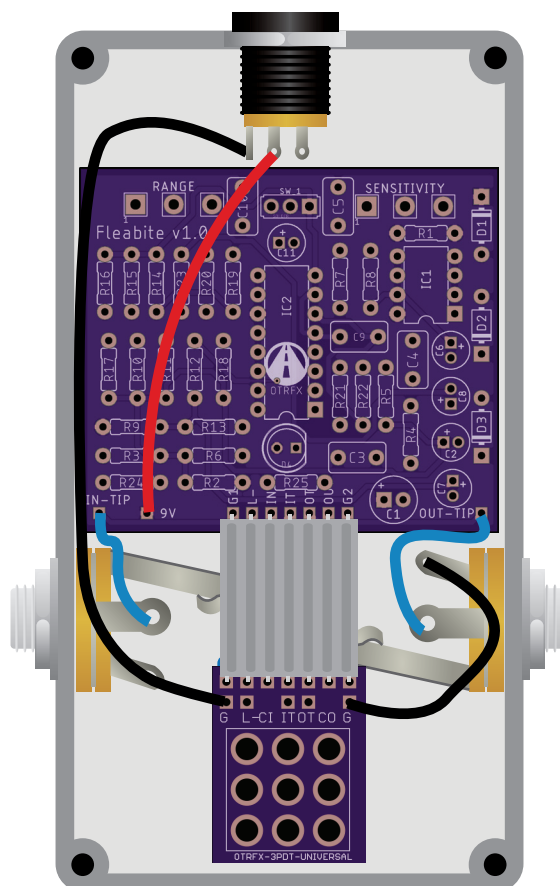
ICs

IC1	MC1458P**
IC2	LM13700

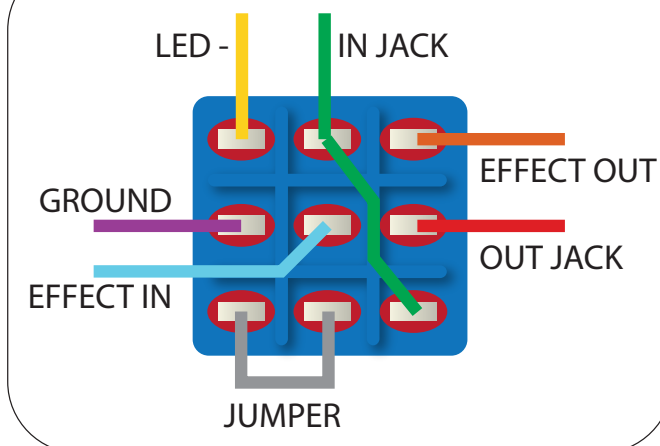
* CLR = Current Limiting Resistor for the LED. 1k - 4.7k depending on desired brightness. (lower resistor value = brighter)

**A 4558 dual op-amp is also a good substitute for IC1, and may enhance the treble response in this circuit.

Fleabite (v1.0) Build Guide



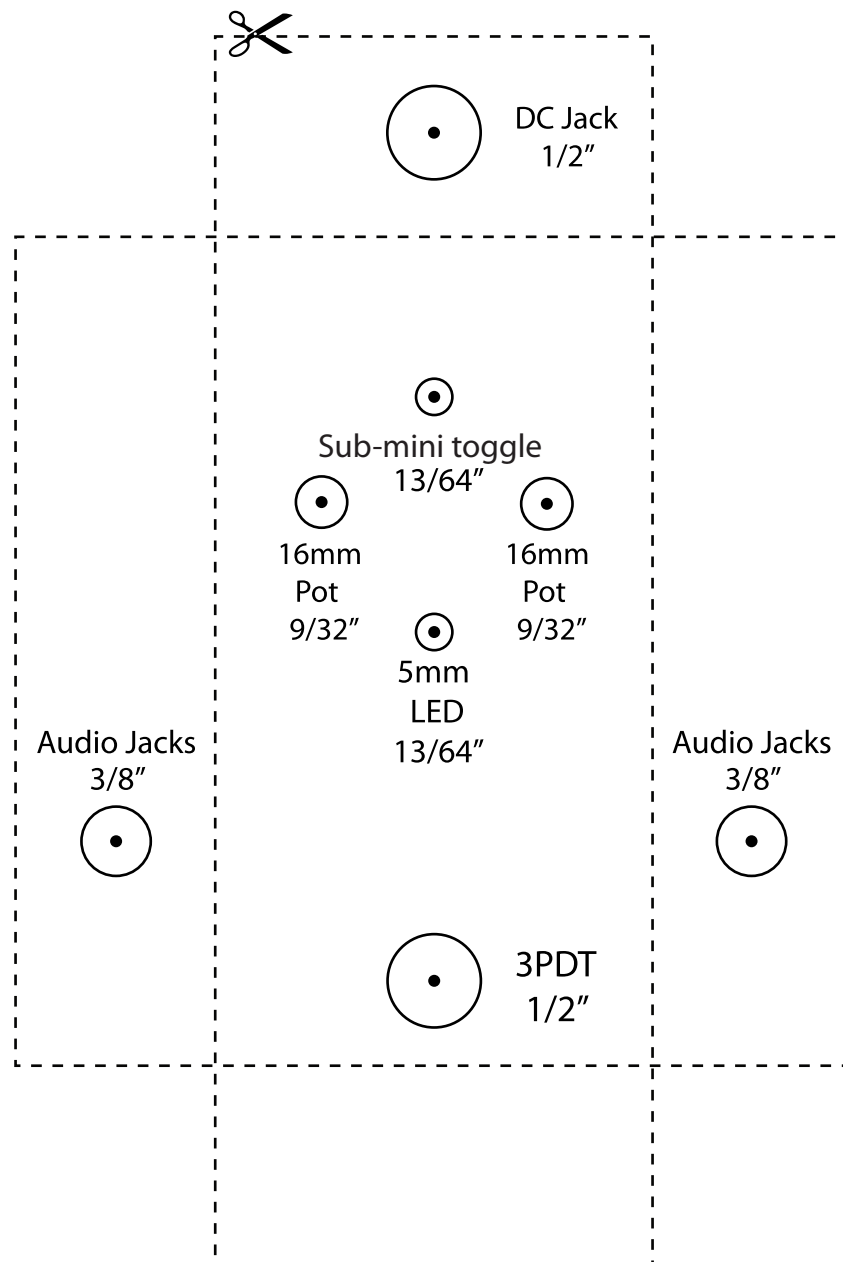
True Bypass Wiring



Fleabite (v1.0) Build Guide

Drilling Template

1590B Enclosure



Fleabite (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:

Tayda Electronics
Mouser
Love My Switches
Small Bear Electronics

Website:

taydaelectronics.com
mouser.com
lovemyswitches.com
smallbear-electronics.mybigcommerce.com

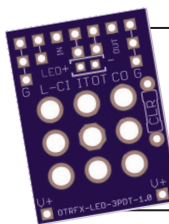
Specialties:

resistors, capacitors, diodes, sockets, LEDs, pots, knobs
resistors, capacitors, IC's
switches, knobs, enclosures, pre-wired LEDs
hardware, knobs, rare and vintage diodes, transistors & IC's



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