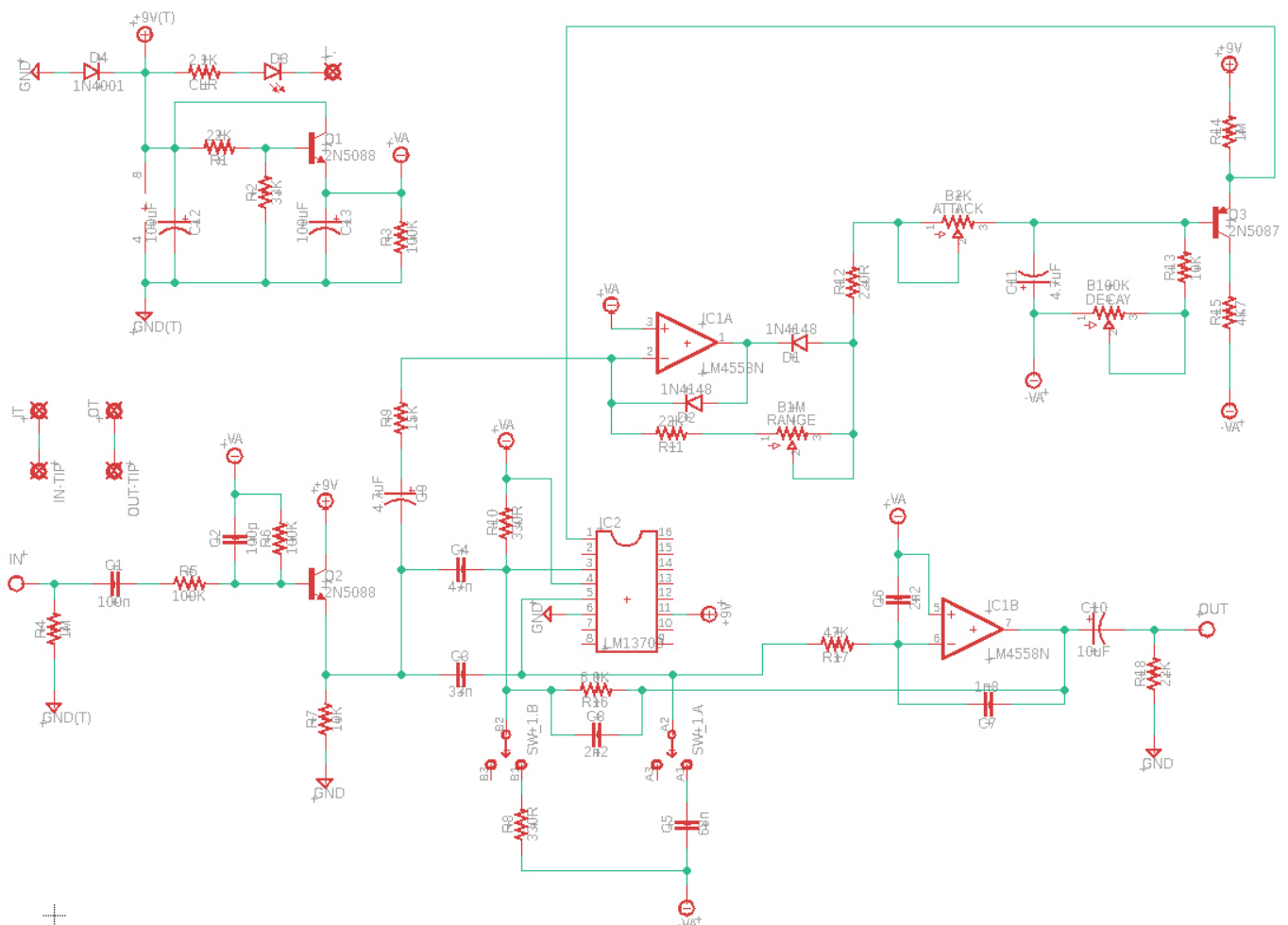
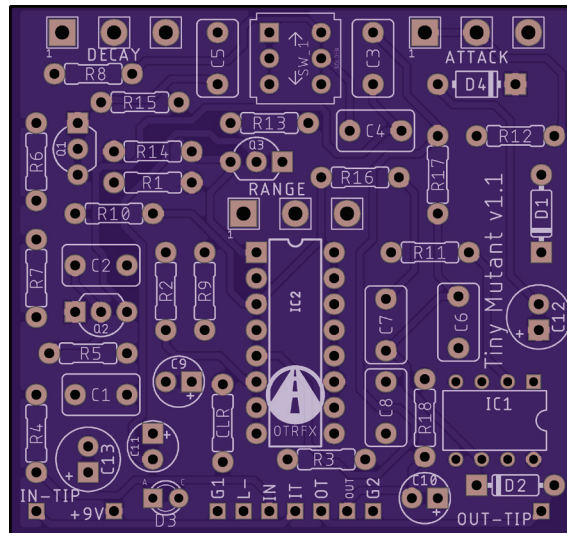




Tiny Mutant (v1.1) Build Guide



Tiny Mutant (v1.1) Build Guide

The Tiny Mutant is a modified version of the Mutron Micro V envelope filter (auto-wah). Attack and Decay controls have been added to the original circuit which enhance the sensitivity of the filter, so that it can be better tailored to meet the varying needs of guitar, bass, keyboards and other instruments.

It's a delightful funk machine with a lovely synth-like decay on sustained notes, and is a joy to experiment with at home, on stage, or in the studio.

Resistors

R1	22K
R2	33K
R3	100K
R4	1M
R5	100K
R6	100K
R7	10K
R8	330R
R9	15K
R10	330R
R11	22K
R12	220R
R13	10K
R14	1M
R15	4K7
R16	6.8K
R17	47K
R18	22K
R19	CLR*

Diodes

D1	1N4148
D2	1N4148
D3	LED
LDR1	1N4001

ICs

IC1	LM4558N
IC2	LM13700

Capacitors

C1	100n	FILM
C2	100p	FILM
C3	33n	FILM
C4	47n	FILM
C5	68n	FILM
C6	2n2	FILM
C7	1n8	FILM
C8	2n2	FILM
C9	4.7uF	ELECTRO
C10	10uF	ELECTRO
C11	4.7uF	ELECTRO
C12	100uF	ELECTRO
C13	100uF	ELECTRO

Potentiometers

ATTACK	B2K
DECAY	B100K
RANGE	B1M

Transistors

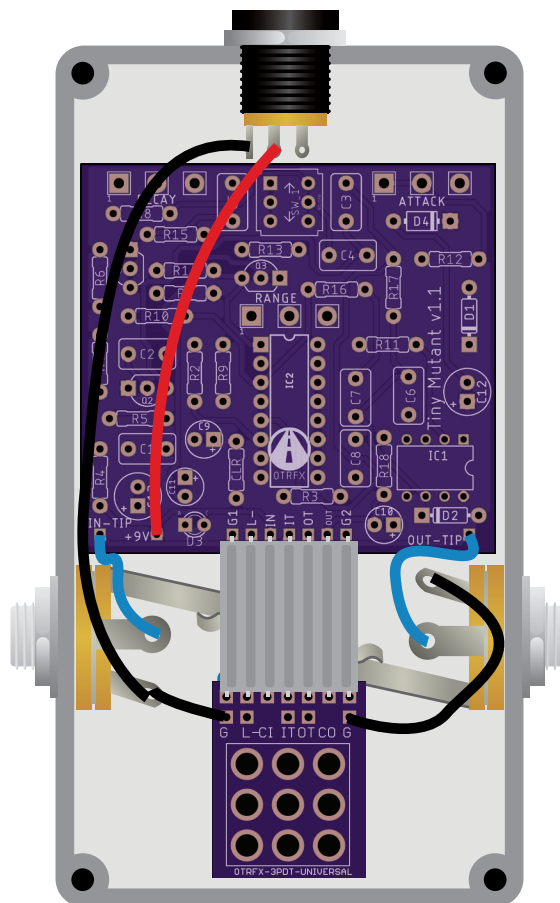
Q1	2N5088
Q2	2N5088
Q3	2N5087

Switches

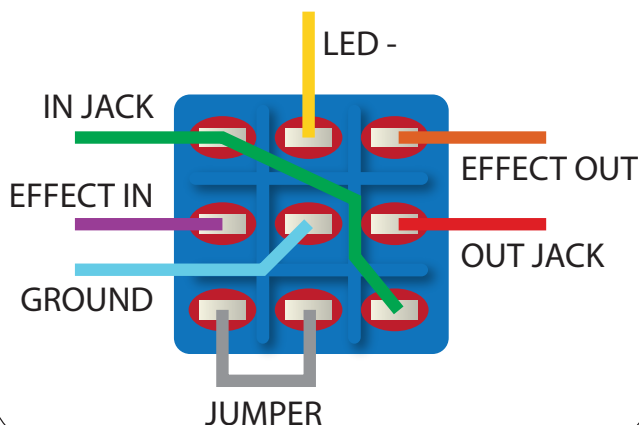
SW1 (Freq)	DPDT On-On (Sub-Mini)
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* CLR = Current Limiting Resistor for the LED. 1k - 4.7k depending on desired brightness. (lower resistor value = brighter)

Tiny Mutant (v1.1) Build Guide



True Bypass Wiring



Toggle Switch

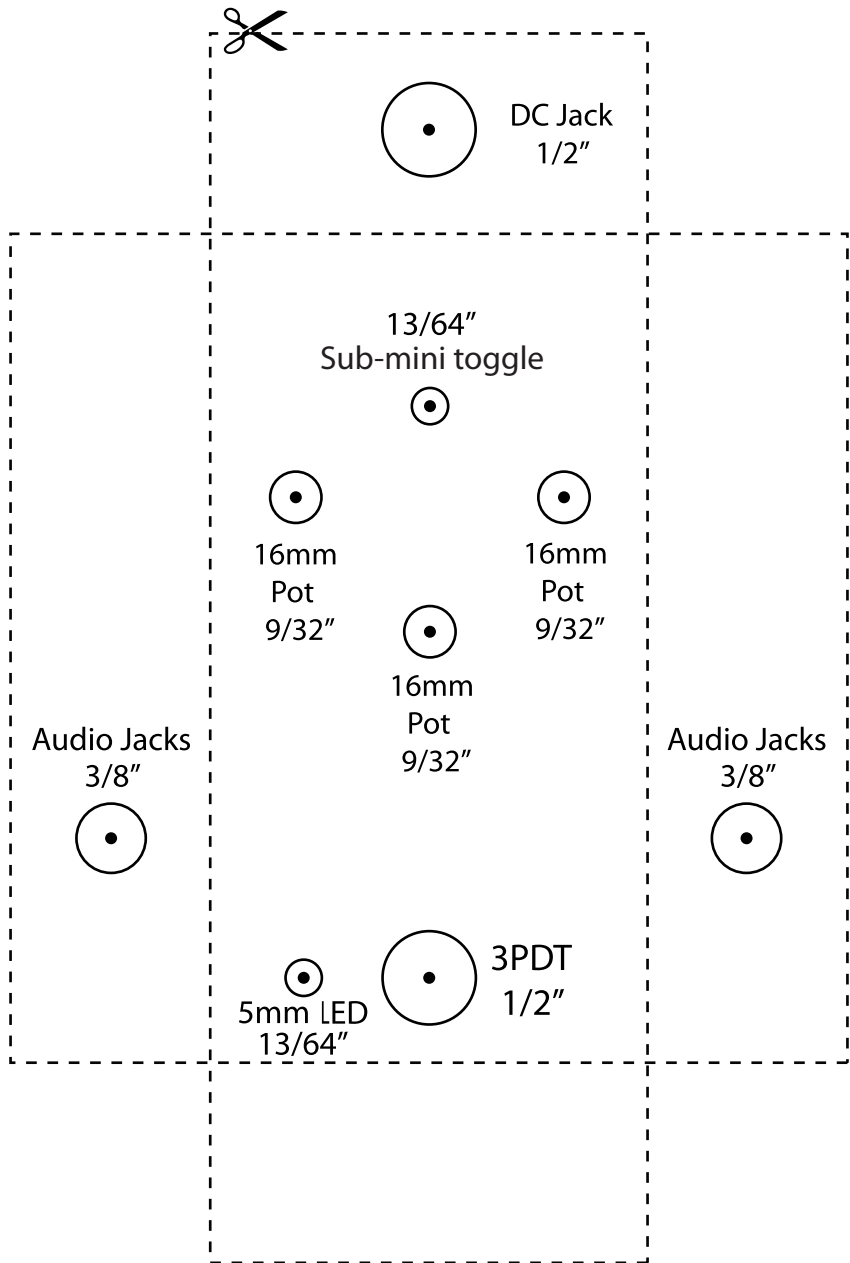


(This determines the frequency range of the filter sweep)

Tiny Mutant (v1.1) Build Guide

Drilling Template

1590B Enclosure



Tiny Mutant (v1.1) 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

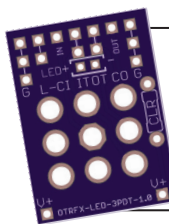
Specialties:

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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