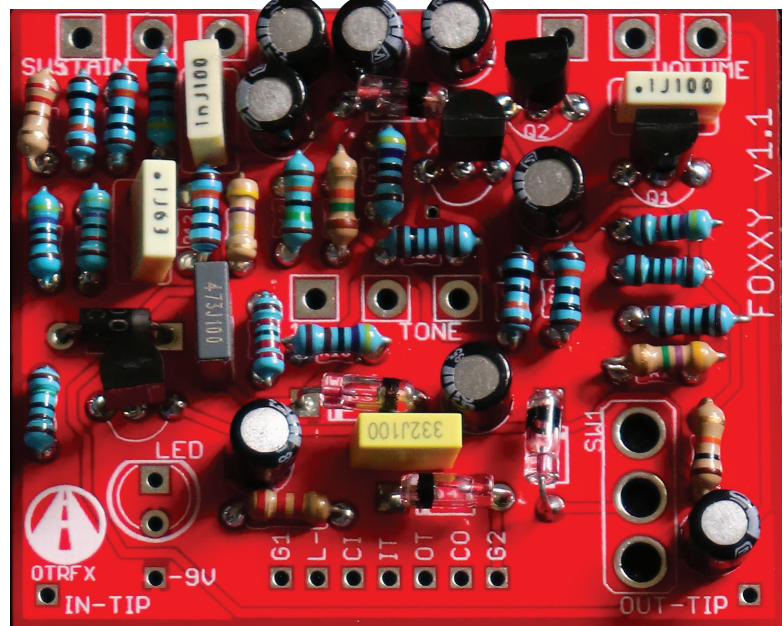
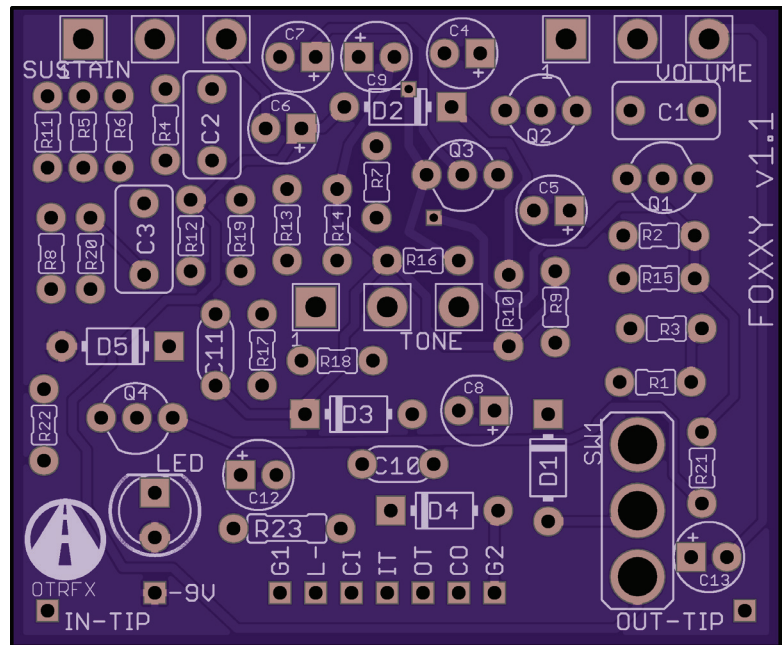
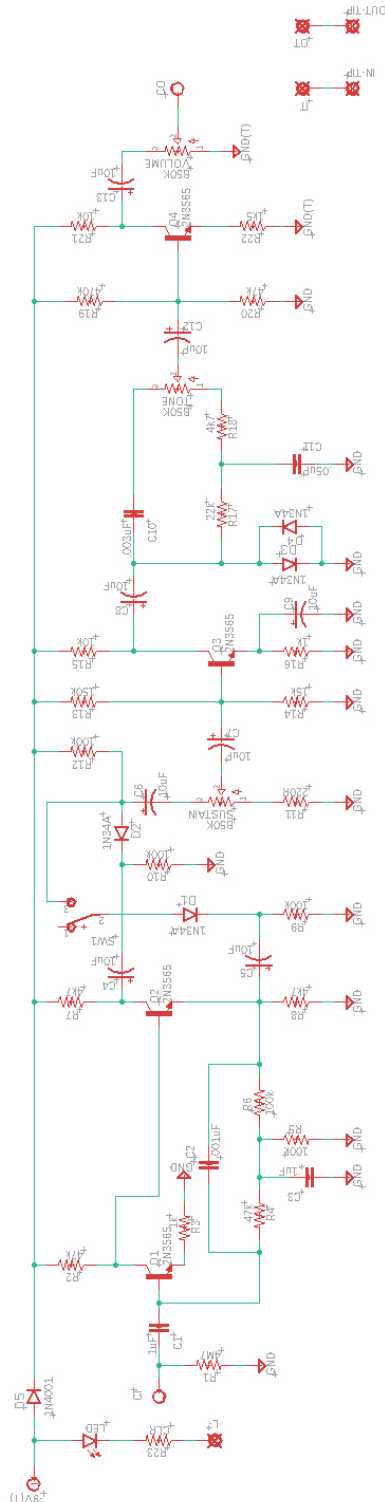




Foxyxy (v1.1) Build Guide



Foxyxy (v1.1) Build Guide

Who doesn't love a pedal covered in faux-velvet? The original Foxx Tone Machine is a thick, massive fuzz with a glorious octave-up switch: a favorite of Peter Frampton, Billy Gibbons (ZZ Top), Adrian Belew (King Crimson, Talking Heads, Frank Zappa, David Bowie) and many others (It's great on bass too!).

While the original pedal is a classic, its unconventional shape and control knob placement make this a bit awkward on a pedalboard, so we've condensed it down to fit into a 1590B enclosure.

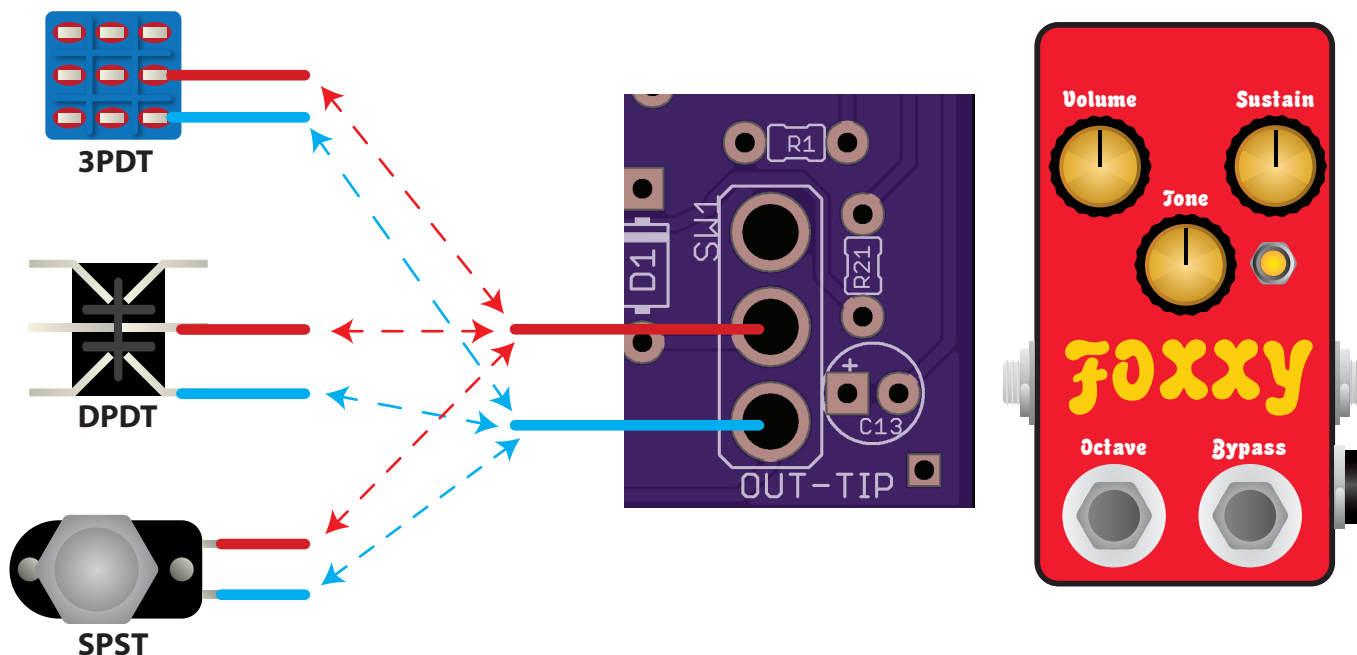
MODIFICATIONS:

More Bass:

To get more low-end out of the bass side of the tone control, lower **R18** to 1K, (or even replace with a jumper).

Octave Switch:

If you would like to replace the octave toggle switch with a stomp switch, simply wire as shown below. This is very handy for live performance, so that you can use the fuzz with and without octave for various parts of a song. If you're more of a home player or studio performer, then the built-in toggle switch might be more your thing. For the stomp switch, you can use a 3PDT, DPDT or SPST, as long as it's 'latching' (not 'momentary'). You'll also need to move the DC jack to the top of the enclosure to make the two stomp switches fit.



Foxy (v1.1) Build Guide

Resistors

R1	4M7
R2	47k
R3	1k
R4	47k
R5	100k
R6	100k
R7	4k7
R8	4k7
R9	100k
R10	100k
R11	220R
R12	100k
R13	150k
R14	15k
R15	10k
R16	1k
R17	22k
R18	4k7
R19	470k
R20	47k
R21	10k
R22	1k5
R23	CLR*

NOTE: To achieve a compact layout, most resistors are 1/8W size (smaller). 1/4W resistors will work fine, but they won't sit completely flat on the board.

Diodes

D1	1N34A
D2	1N34A
D3	1N34A
D4	1N34A
D5	1N4001

**Transistor Information:

The 2N3565 is a TO-106 format transistor, so you will need to orient them (or any other transistor) correctly. The orientations and pinouts are shown to the right.

Substitutes include 2N5088, 2N2222A 2N5089 (higher gain), 2N3904 (lower gain), or BC549.



Capacitors

C1	100n	Film
C2	1n	Film
C3	100n	Film
C4	10uF	Polarized Electro
C5	10uF	Polarized Electro
C6	10uF	Polarized Electro
C7	10uF	Polarized Electro
C8	10uF	Polarized Electro
C9	10uF	Polarized Electro
C10	3n	Film
C11	50n	Film
C12	10uF	Polarized Electro
C13	10uF	Polarized Electro

Potentiometers

SUSTAIN	B50K
TONE	B50K
VOLUME	B50K

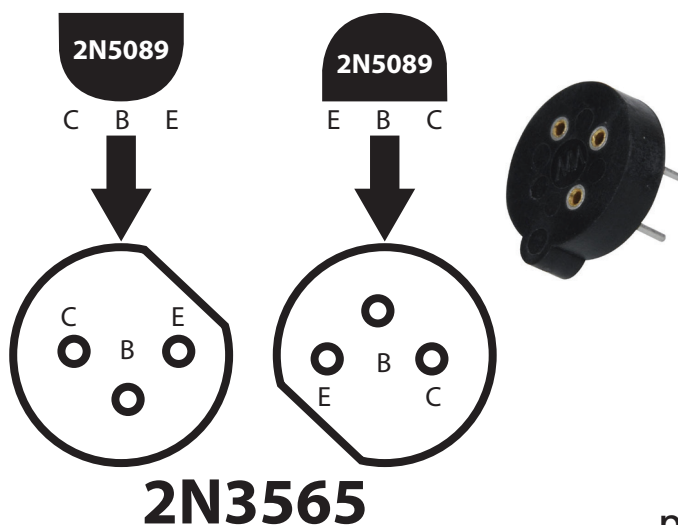
Transistors

Q1	2N3565**
Q2	2N3565**
Q3	2N3565**
Q4	2N3565**

Switches

SW1	SPDT Mini Toggle (On-On)
-----	--------------------------

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



Foxyxy (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 ICs, 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 (ICs/transistors).

RESOURCES:

Parts Ordering:

Tayda Electronics
Mouser
Love My Switches
Small Bear Electronics

Website:

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

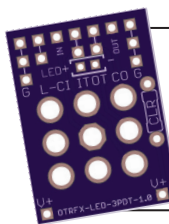
Specialties:

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



PEDAL BUILDER'S VECTOR PACK

Plan, design, test-fit, & print your DIY pedals with ease!
Visit ontheroadeffects.com

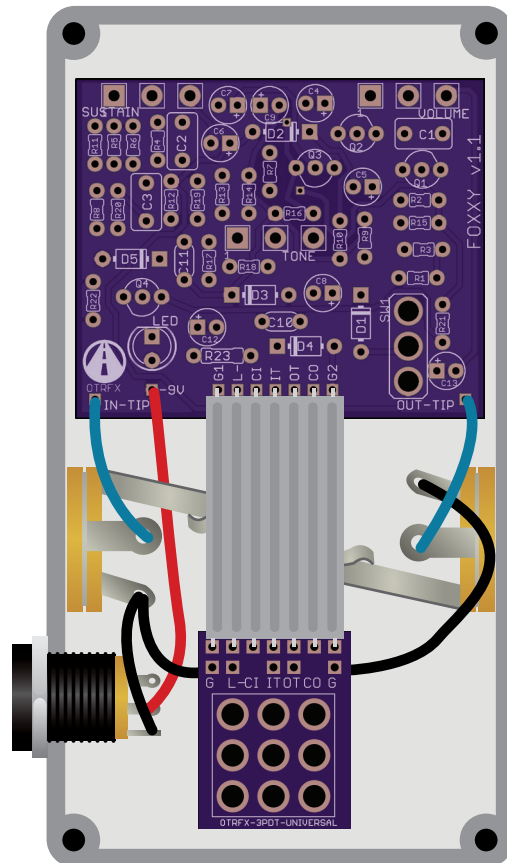


HATE WIRING STOMPSWITCHES?

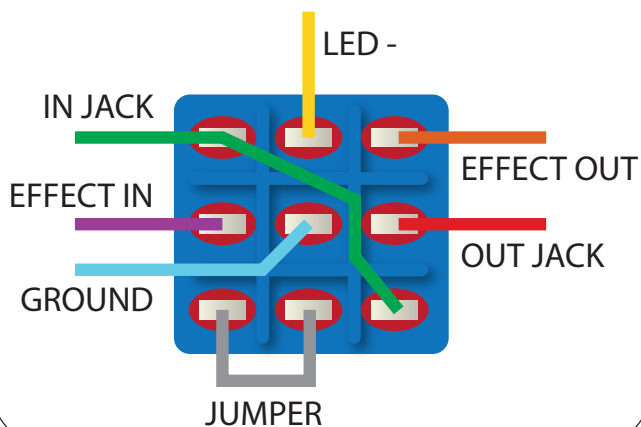
Stock up on our handy 3PDT wiring boards!
Visit ontheroadeffects.com

Foxyxy (v1.1) Build Guide

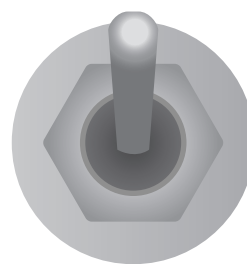
1590B Enclosure



True Bypass Wiring



Octave Switch



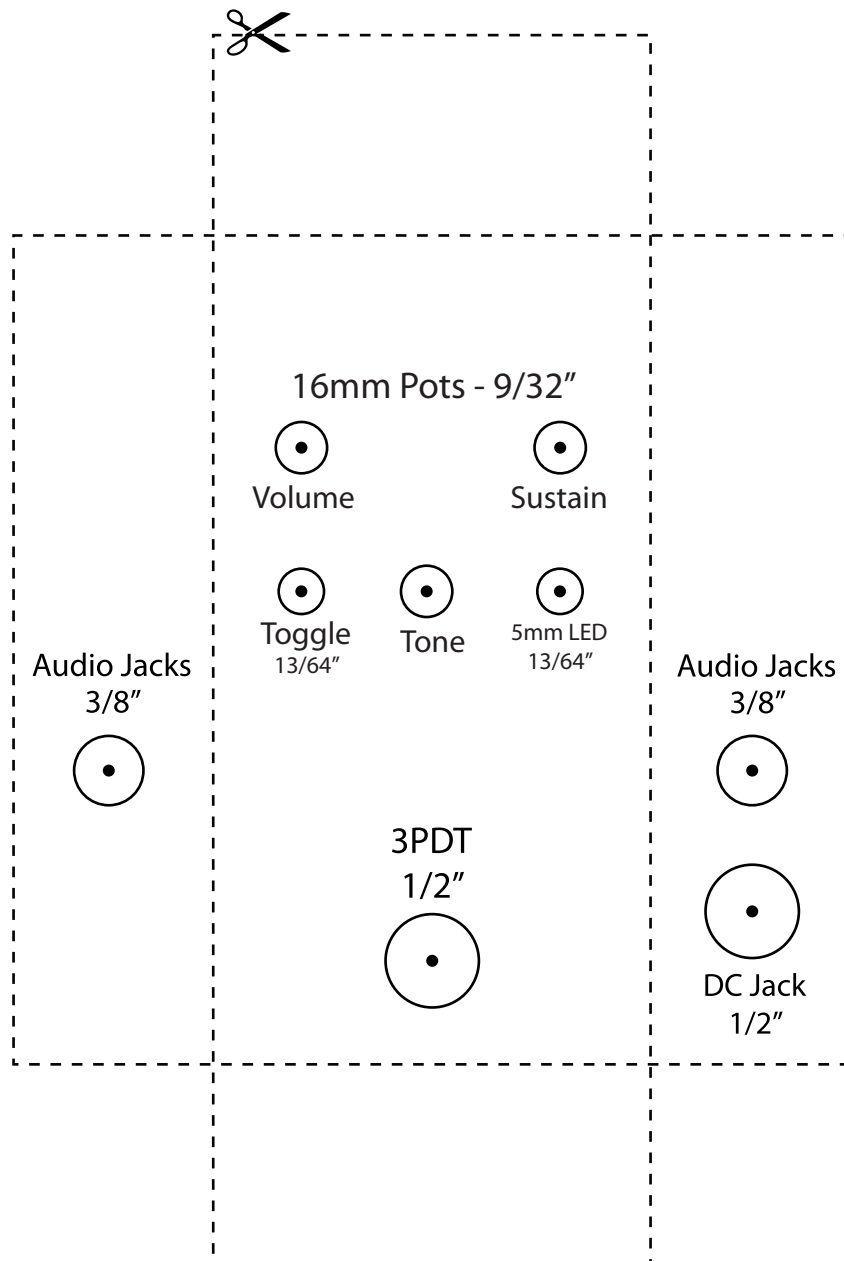
Octave-Up (UP)

No Octave (DOWN)

Foxy (v1.1) Build Guide

Drilling Template

1590B Enclosure



Print at 100% and tape to enclosure for drilling