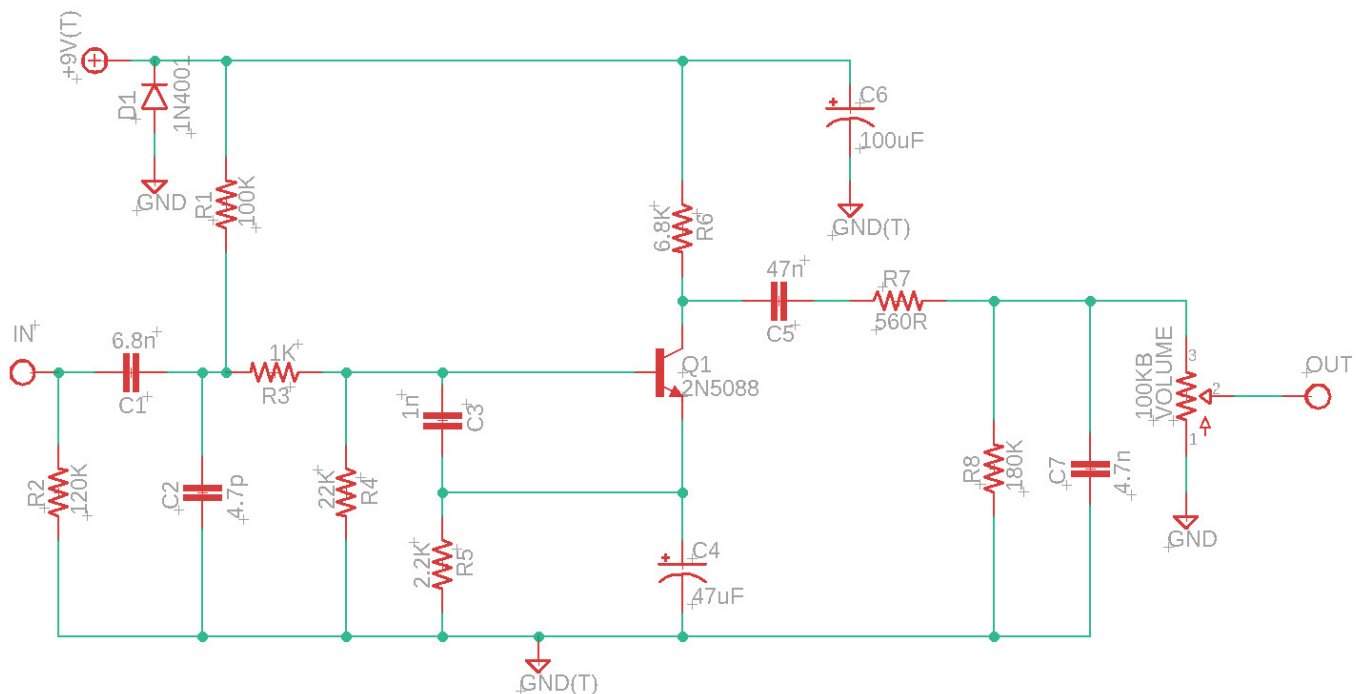
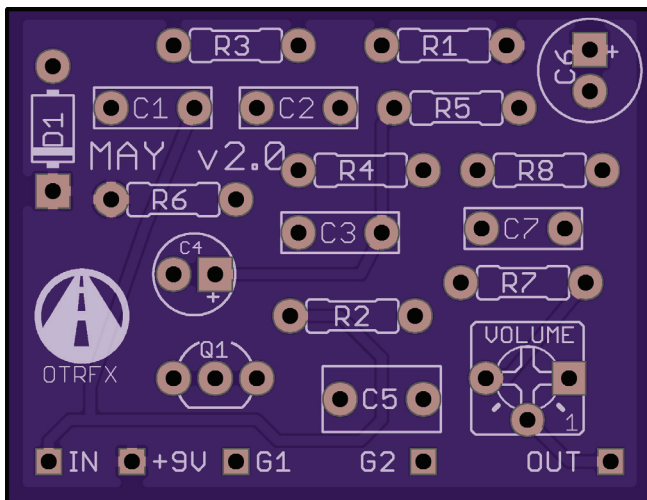




May Boost (v2.0) Build Guide



May Boost (v2.0) Build Guide

May Boost is based on the Fryer Treble Boost, a hallmark of Brian May's *Queen* tone. Run it hard into a Vox AC30 amp's normal channel, and you're on your way to 'Bohemian Rhapsody' territory. The circuit itself is adapted from the Rangemaster, and offers about 30dB of volume boost.

Since this boost is largely meant to run at full (or near full) volume, the board is designed with a trimpot control, allowing you to 'set-and-forget' the amount of boost after tweaking it to sound just right with your own amp. Alternatively, you can wire it with an external volume pot if you wish (see page 3).

Resistors

R1	100K
R2	120K
R3	1K
R4	22K
R5	2.2K
R6	6.8K
R7	560R
R8	180K

Diodes

D1	1N4001
----	--------

Capacitors

C1	6.8n	FILM
C2	4.7p	CERAMIC
C3	1n	FILM
C4	47uF	POLARIZED
C5	47n	FILM
C6	100uF	POLARIZED
C7	4.7n	FILM

Potentiometers

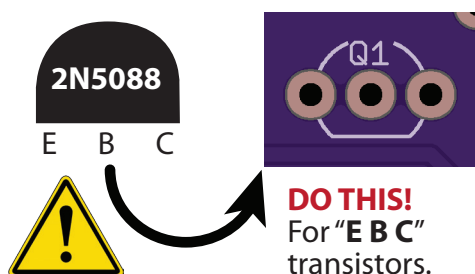
VOLUME	100KB (Trimpot or Pot)
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Transistors

Q1	BC239 *
----	---------

Build Notes:

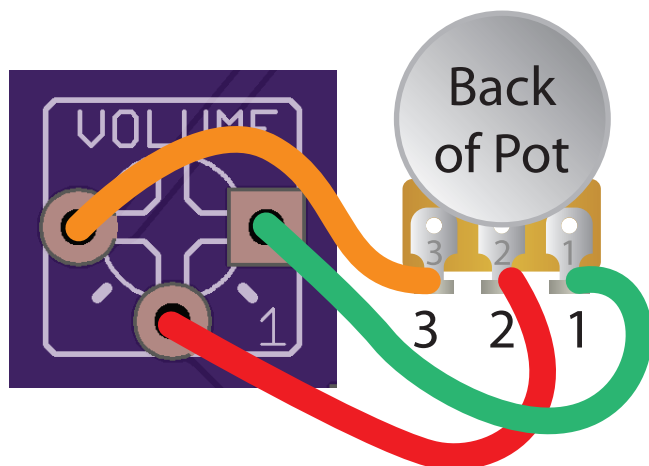
*** Transistors** - while the **BC239** or **BC182L** are most recommended for an authentic Fryer Treble Boost sound, the board shows the orientation of the more accessible **2N5088**. There are many similar NPN silicon & germanium transistors you could also experiment with. **Just be sure to follow the same pinout/orientation as shown below, and use a socket!**



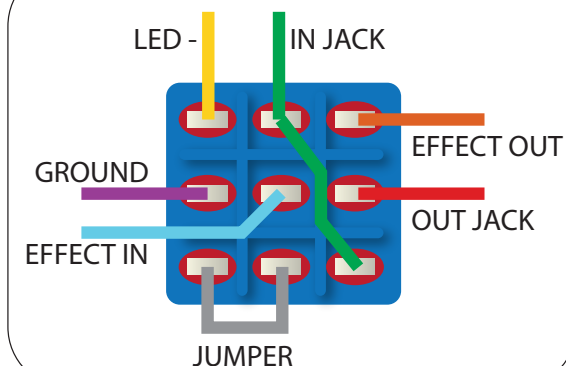
May Boost (v2.0) Build Guide

Adding an External Volume Pot:

Wire as shown here instead of a trimpot.



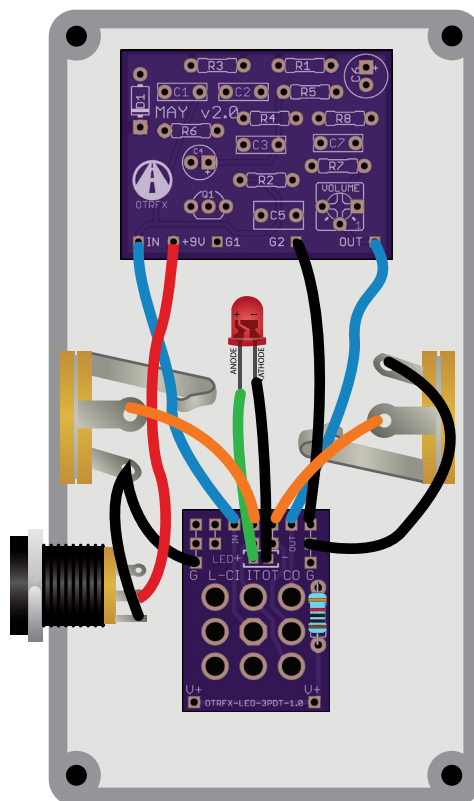
True Bypass Wiring



With external Knob & OTRFX 3PDT Board:



1590B Enclosure

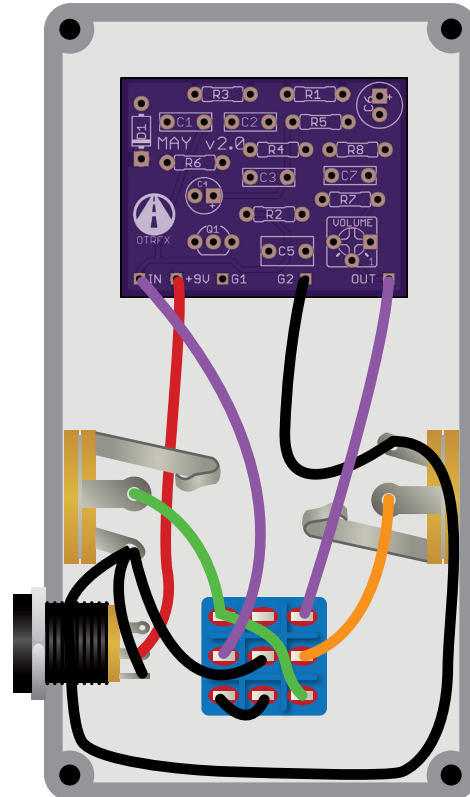


May Boost (v2.0) Build Guide

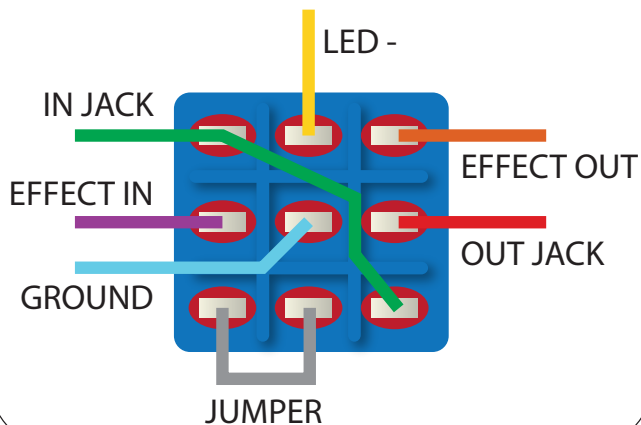
With internal trimpot & standard 3PDT wiring:



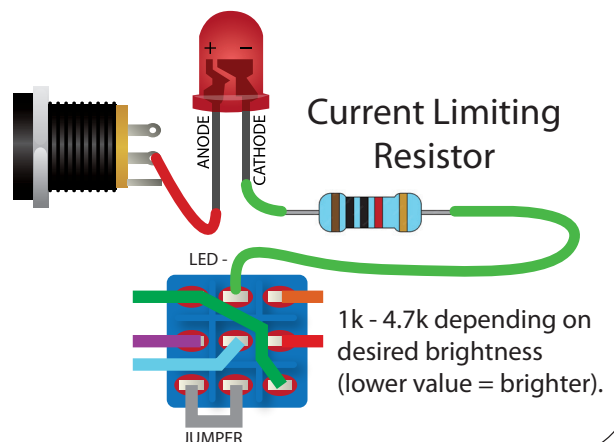
1590B Enclosure



True Bypass Wiring



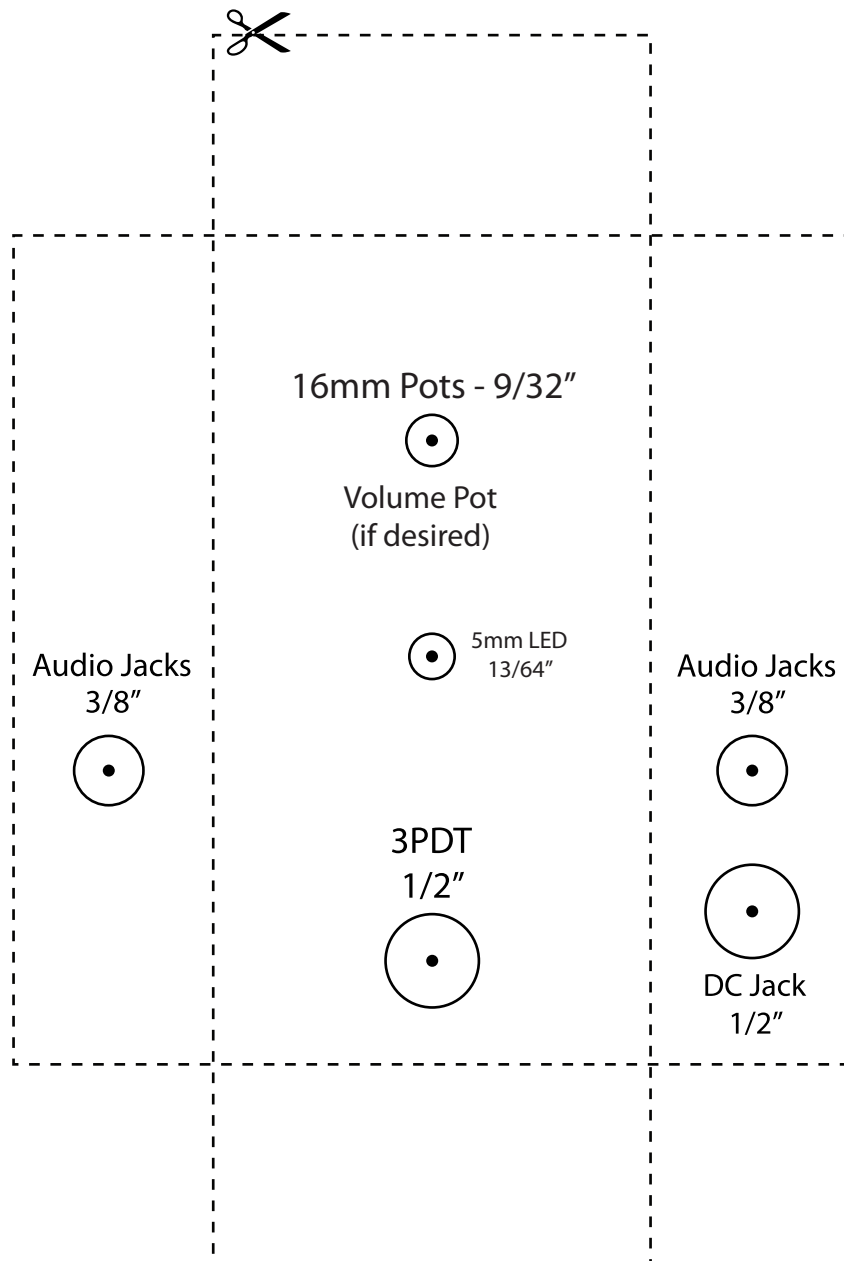
Adding an LED



May Boost (v2.0) Build Guide

Drilling Template

1590B Enclosure



Print at 100% and tape to enclosure for drilling

May Boost (v2.0) 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 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

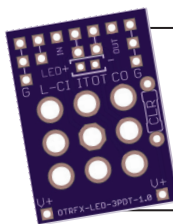
Specialties:

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



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