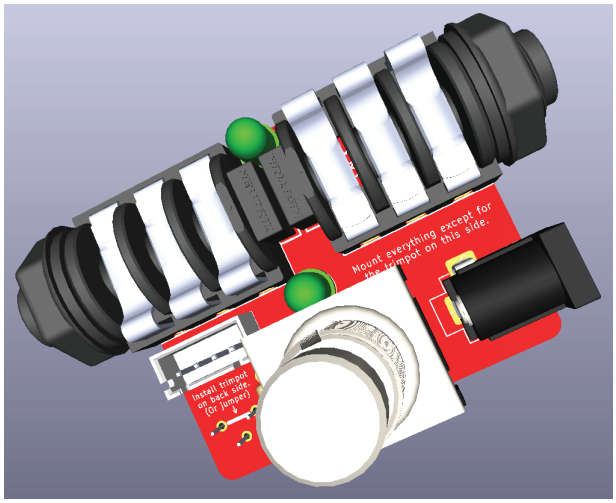
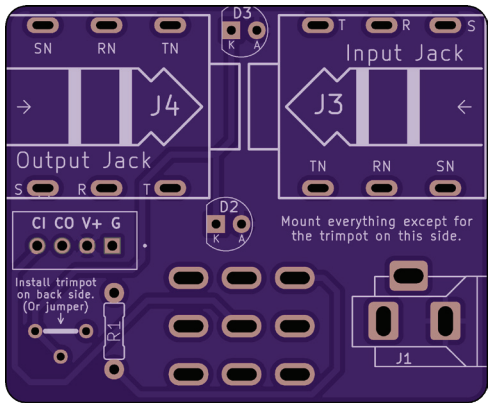
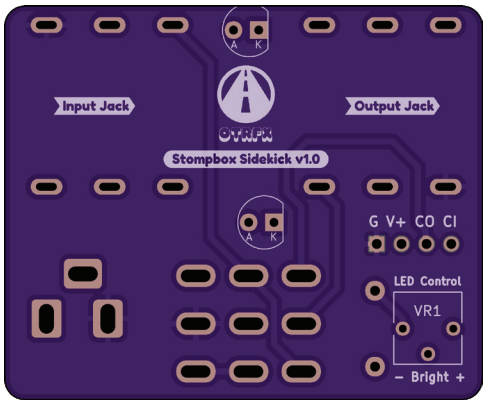
ON THE ROAD EFFECTS

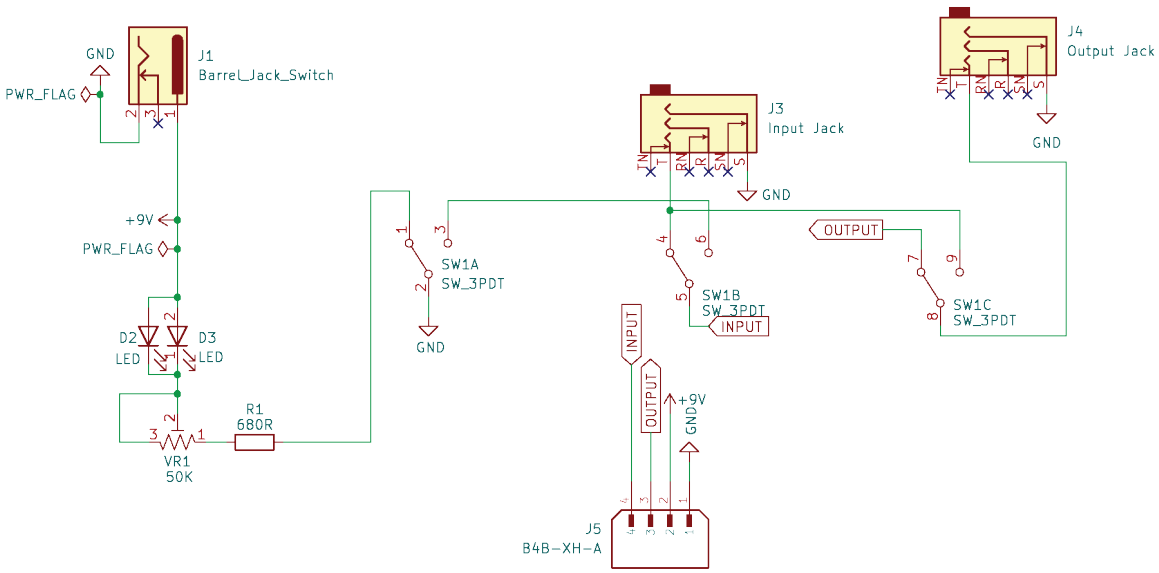
Stompbox Sidekick (v1.0) Build Guide











ON THE ROAD EFFECTS

Stompbox Sidekick (v1.0) Build Guide

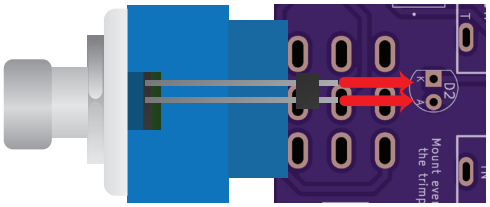
The Stompbox Sidekick allows you to avoid all the tedious off-board wiring that slows down the pedal building process. Everything is board-mounted: the **input, output** & **DC jacks**, the **3PDT switch** and the **LED** plus **current limiting resistor** with added **trimpot** for brightness control. The build can be assembled in about 10-15 minutes.

Resistor	
R1	CLR *

* CLR = Current Limiting Resistor for the LED.
Use 820R here if using the brightness control trimpot.

Diodes	
D1	-none-
D2	LED **
D3	LED

** Only use the D2 LED if using a 3PDT Stomp Switch with built-in LED illuminated washer (and omit D3).



Hardware	
3PDT Stomp Switch	Latching, Solder Lug
DC Jack	PCB Mount
Input Jack	PCB Mount Neutrik NMJ6HCD2
Output Jack	PCB Mount Neutrik NMJ6HCD2
Header Connector	JST XH-A 4-Position Male Pin

Potentiometer	
VR1	50K Trimpot (3362 style)

(if not using the trimpot, solder a jumper wire where indicated by a white line on the PCB)

Note: a 5K, 10K or 20K trimpot will also work, but 50K yields a nice wide range of brightness control.







Flush-mount Neutrik (or similar)
TRS Enclosed Jack



PCB Mount
2.1mm DC Jack



XH-A Header

XH (4P) Female Plug

ON THE ROAD EFFECTS

Stompbox Sidekick (v1.0) Build Guide

Build Instructions

Drill enclosure first.

1. Install the CLR Resistor - 820R is recommended if using the brightness trimpot. Otherwise, a value between 1K - 4.7K is a good range for your desired brightness. (lower resistor = brighter).

2. Install the DC Jack.

3. Install the JST Connector, orienting it so that it fits within its outlined box.

4. Install the 50K Trimpot on the OPPOSITE side of the board, OR (if you don't wish to have a brightness control), install a jumper wire where you see a white line.

5. Install the IN and OUT Jacks, making sure all the pins are flat on the board. A small elastic band or clamp can help here, holding the jacks and PCB together.

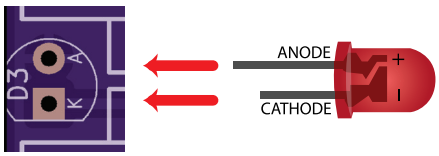
6. Put in 3PDT (with inside nut and lockwasher at the very bottom position) into the enclosure and LOOSELY install nylon washer and nut to the outside.

7. Lower the PCB with jacks (with internal washers installed) into the enclosure and seat the 3PDT into place.

8. Loosely install jack washers and metal nuts onto the jacks from the outside. This is the most finicky step- confirm everything is lined up at this point, and that the PCB appears to be reasonably level. If something is off, the 3PDT and jack holes can be widened with a reamer tool, or with a slightly larger drill bit.

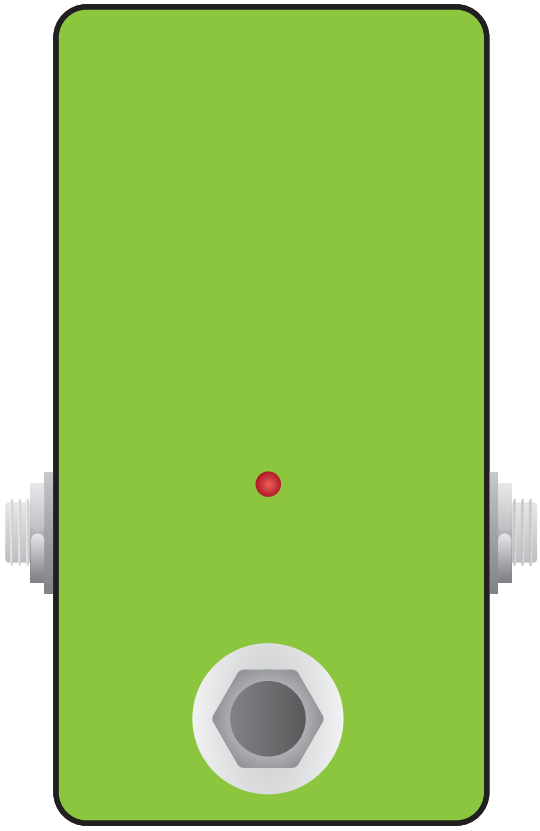
9. Solder the 3PDT lugs. If you are using an LED illuminated 3PDT switch, you are done.

10. If using a standard 3PDT stomp switch and manually installing an LED, remove the outside washers and remove the Sidekick board. Now you can install an LED directly into the top LED footprint, making sure annode (A) cathode (K) are in the correct holes. Re-insert the Sidekick into place and drop the LED down into the enclosure's LED hole directly beneath the LED footprint (D3). Solder into place. Tighten IN, OUT & 3PDT hardware.



ON THE ROAD EFFECTS

Stompbox Sidekick (v1.0) Build Guide





Example Build



Usage Tips!

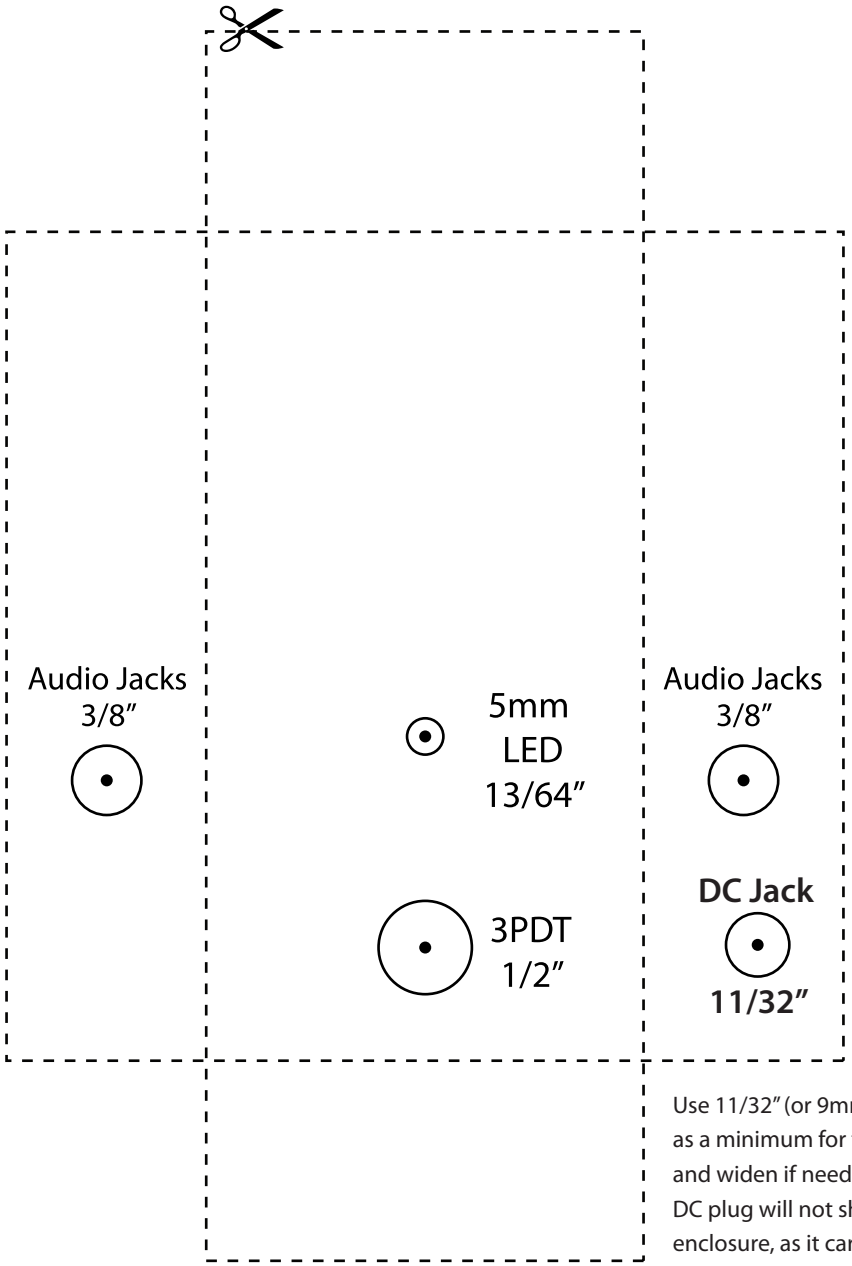
You can swap out different effect PCBs by simply unplugging the connector from the Sidekick and swapping in another circuit. Of course drill holes may be different from one pedal to another, but the Sidekick can be useful for a breadboard setup too!

It's also very convenient for debugging a circuit: unplug the main PCB, re-work solder joints and plug back in!

Stompbox Sidekick (v1.0) Build Guide

Drilling Template

1590B Enclosure



Use 11/32″ (or 9mm) as a minimum for the DC jack hole, and widen if needed- be sure the DC plug will not short against the enclosure, as it carries voltage!

Stompbox Sidekick (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.

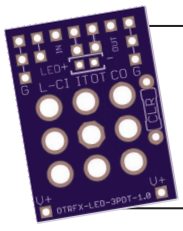
- Socket anything you might want to change, or anything that would be very difficult to remove if faulty (IC's/transistors).

RESOURCES:

Parts Ordering:	Website:	Specialties:
Tayda Electronics	taydaelectronics.com	resistors, capacitors, diodes, sockets, LEDs, pots, knobs
Mouser	mouser.com	resistors, capacitors, IC's, diodes, transistors
Stompbox Parts	stompboxparts.com	wide range of pedal parts, hardware, IC's, ribbon cable
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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