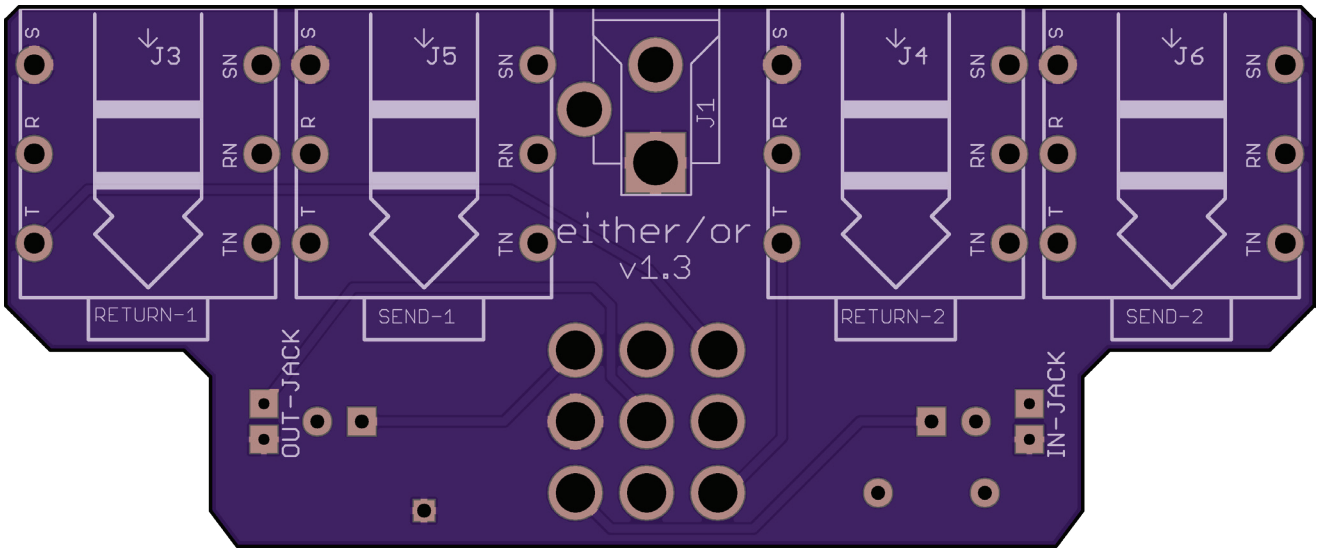
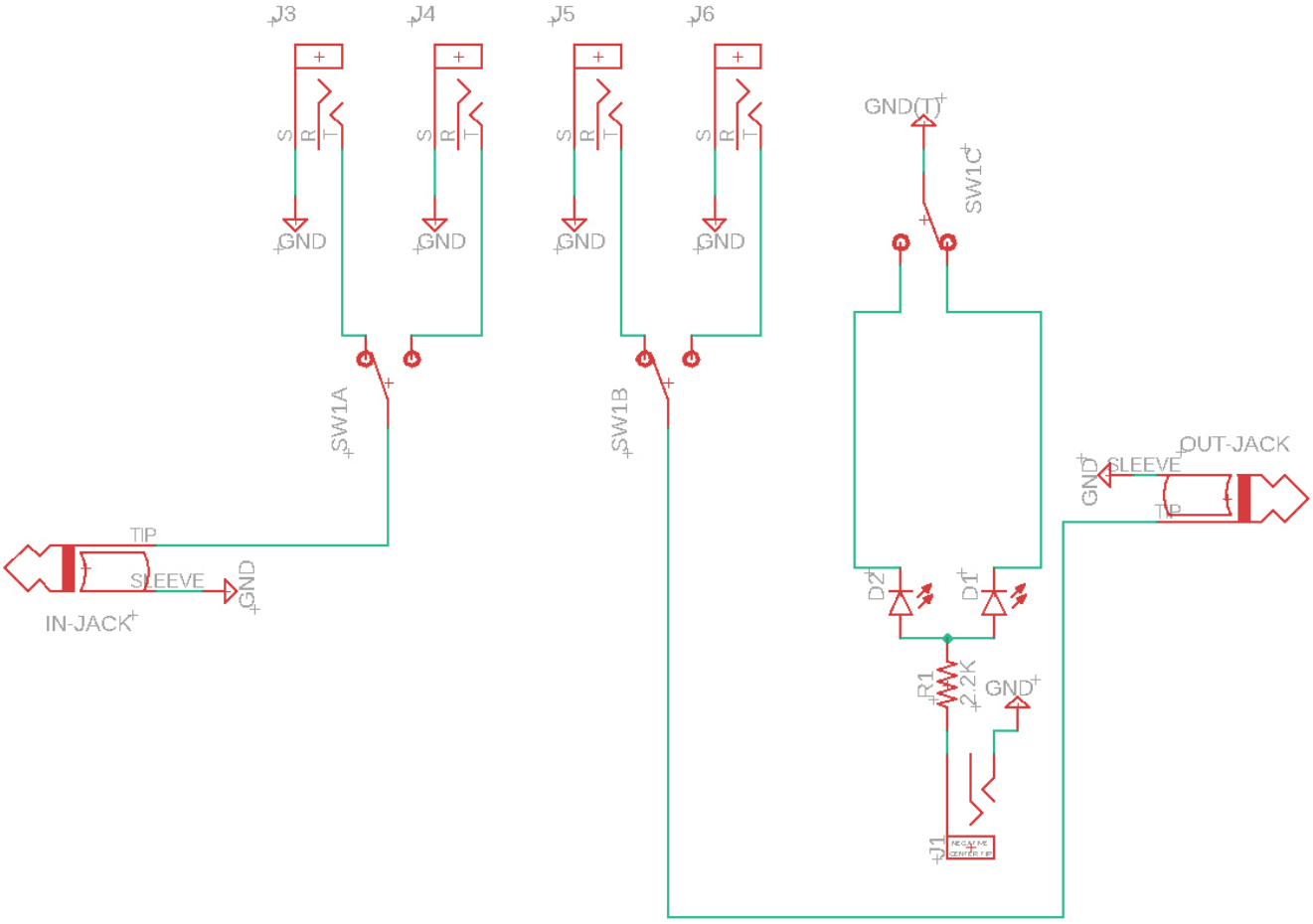
ON THE ROAD EFFECTS

either/or (v1.3) Build Guide





either/or (v1.3) Build Guide

The either/or is a two-channel switcher/looper pedal, which has many uses. So many in fact, that there are two pages of usage applications included, and there are probably more that we haven't even thought of yet! Since nearly everything is board-mounted, assembling this pedal is extremely quick and easy.

Resistors

R1	CLR *

Diodes

D1	LED
D2	LED

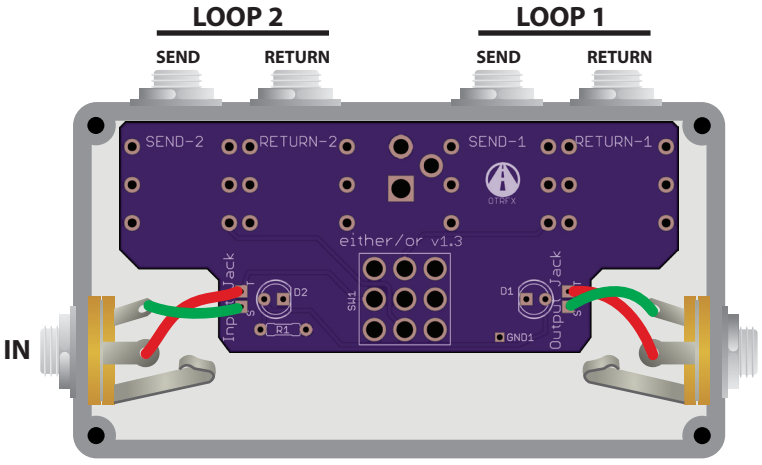
Switches

SW1	3PDT Solder Lug

Jacks

P1	1/4" open-frame mono jack
P2	1/4" open-frame mono jack
J3	Flush Mount Neutrik NMJ6HCD2
J4	Flush Mount Neutrik NMJ6HCD2
J5	Flush Mount Neutrik NMJ6HCD2
J6	Flush Mount Neutrik NMJ6HCD2
DC	2.1mm PCB Mount DC jack

* CLR = Current Limiting Resistor for the LED. 1k - 4.7k depending on desired brightness. (lower resistor value = brighter)
Since only one LED lights up at a time, you are free to use 2 different color LEDs if you like.

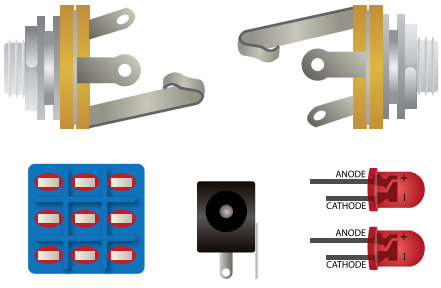




Flush-mount Neutrik (or similar)
TRS Enclosed Jack



PCB Mount
2.1mm DC Jack





either/or (v1.3) Build Guide

Build Instructions

Drill enclosure first.

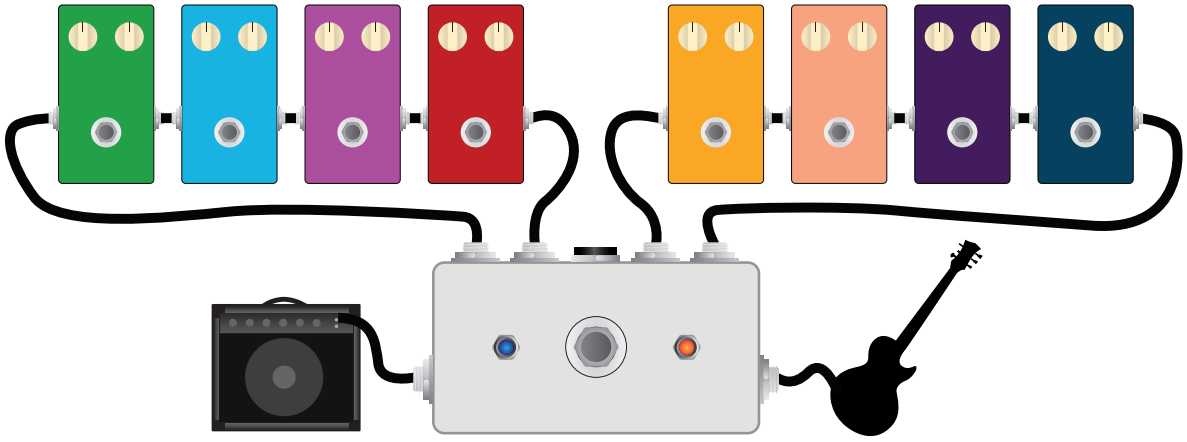
1. Install **R1**, then all of the **PCB-mount jacks**, the **DC jack** and the **3PDT switch** onto the top side of the board (the side that has the jacks pictured on the silkscreen).
2. Drop in two LEDs into **D1** and **D2** on the same side of the PCB, but don't solder them yet.
3. Remove all external nuts and washers from jacks and switches. Install the two open-frame mono jacks, then insert the PCB upside down into the drilled enclosure.
4. Seat the two LEDs into their enclosure holes and loosely install all washers and nuts.
5. Check to make sure all drilled holes are lined up. If anything is off now, you can uninstall the PCB and widen any holes with a reamer tool or larger drill bit.
6. Solder the LED leads in place on the PCB.
7. Solder sleeve and tip wires between the jacks and the PCB.
8. You're done! Tighten down all nuts, install the back plate and enjoy.

NOTE: This pedal is completely passive except for the LEDs, so it will still function with no power supply, you just won't have operational indicator LEDs.

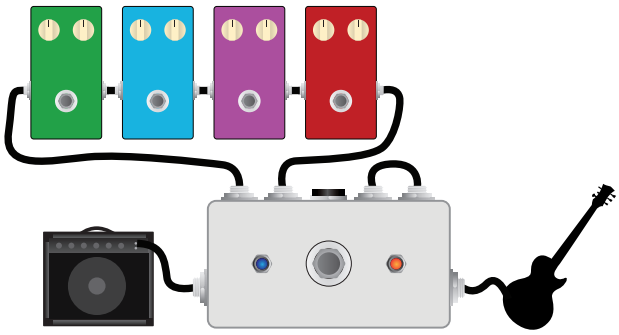
The next two pages will illustrate the various ways this pedal can be used for different signal routing applications...

ON THE ROAD EFFECTS

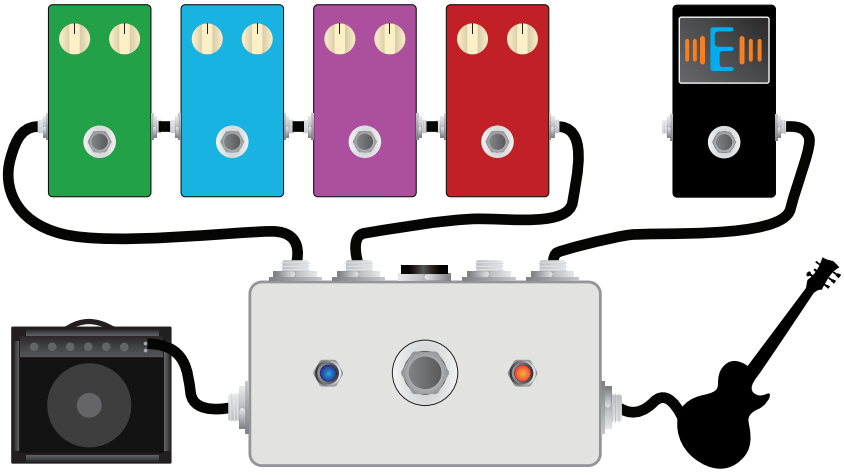
2 Channel Looper Usage Suggestions



2 Effect Pedal Signal Chains

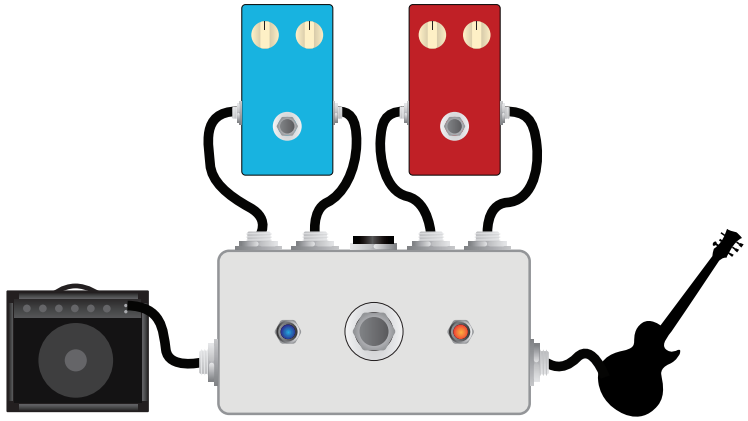


Pedal Chain / Direct to Amp

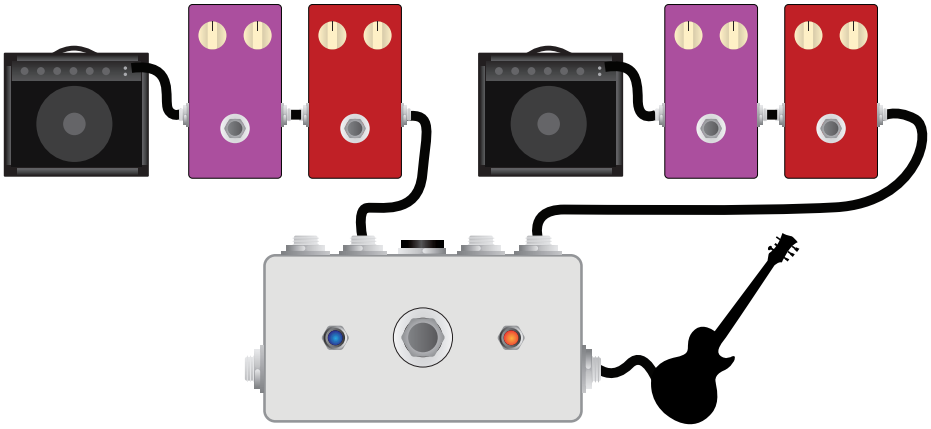


Pedal Chain / Tuner Mute

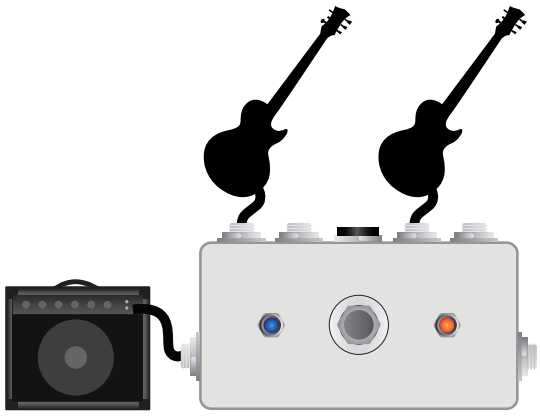
2 Channel Looper Usage Suggestions



A/B Two Pedals for Comparison



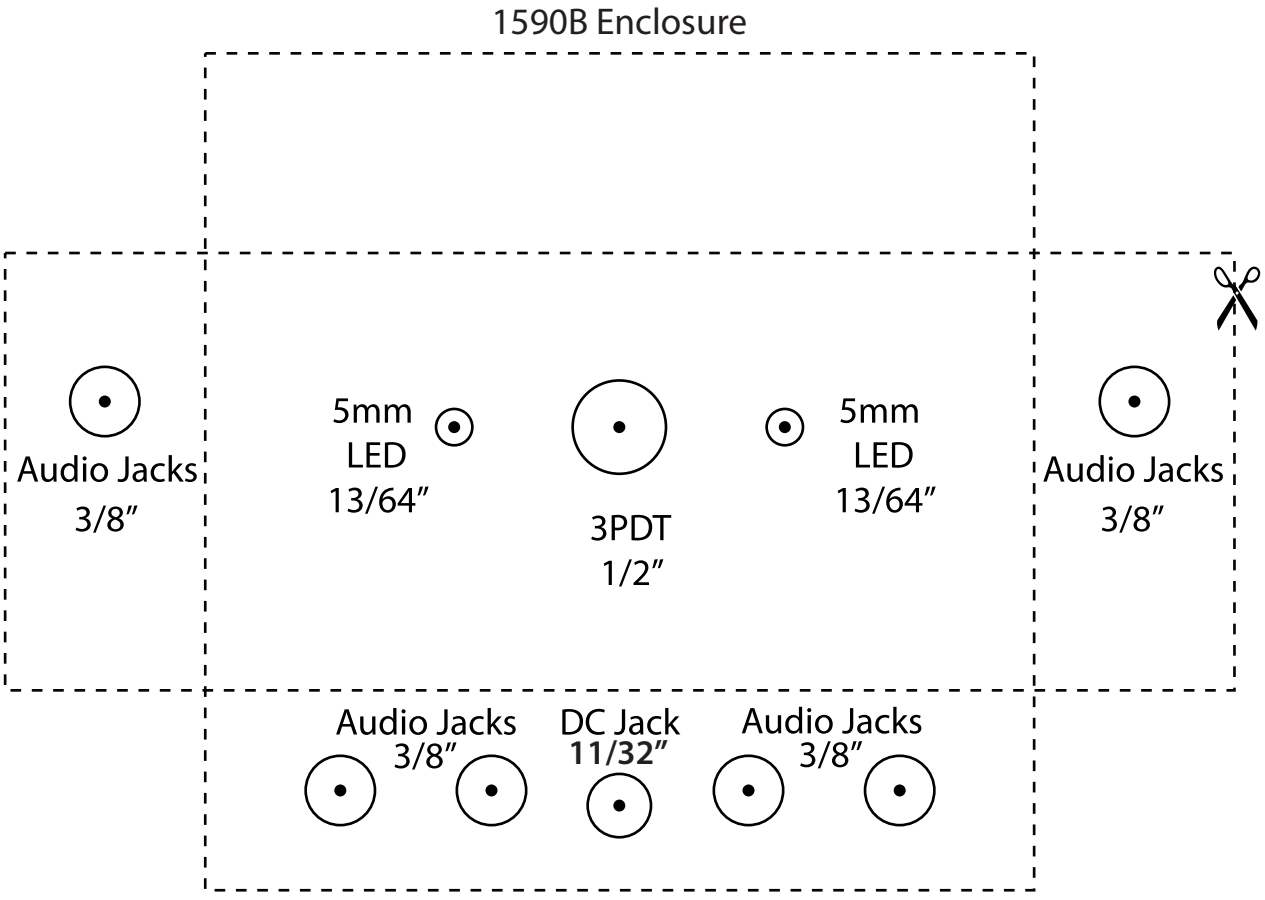
Switching Between Two Amps and/or Pedal Chains



Switching Between Two Guitars On-Stage

either/or (v1.3) Build Guide

Drilling Template



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!

either/or (v1.3) 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.

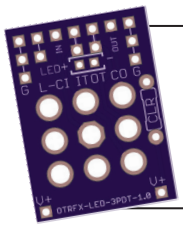
- Socket anything you might want to change, or anything that would be very difficult to remove if faulty (IC's/transistors).

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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