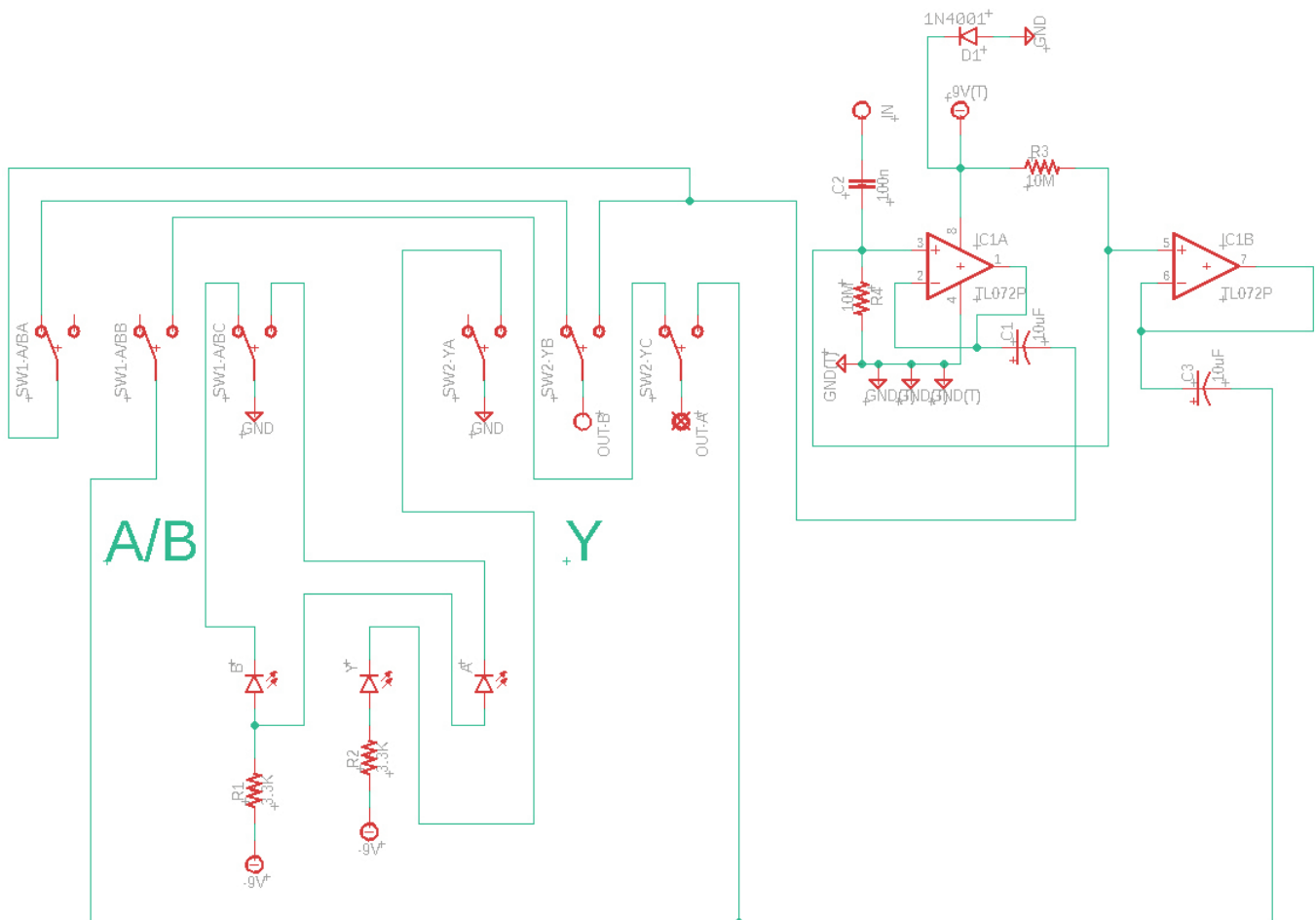
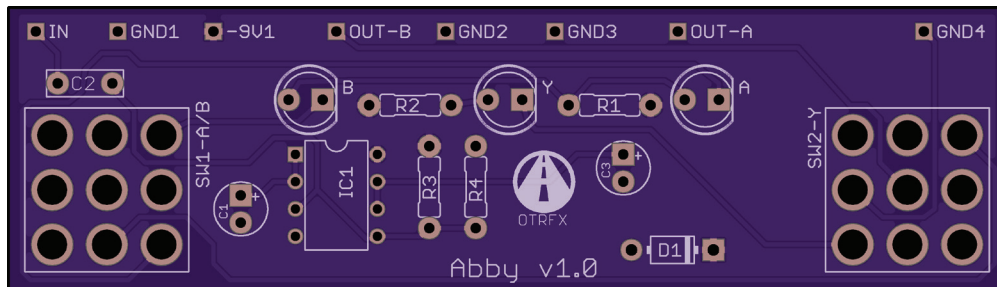




Abby (v1.0) Build Guide



Abby (v1.0) Build Guide

The Abby is a buffered A/B/Y utility pedal, allowing you to send your guitar/pedal chain to either **amplifier A**, **amplifier B** or **both amplifiers** at the same time (aka "Y"). Since the signals are buffered, there won't be a loss of clarity/volume when using both amps at the same time, as is often the case with an unbuffered A/B/Y pedal.

Resistors

R1	CLR *
R2	CLR *
R3	10M
R4	10M

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

Capacitors

C1	10uF	ELECTRO
C2	100n	FILM
C3	10uF	ELECTRO

IC

IC1	TL072
-----	-------

Diodes

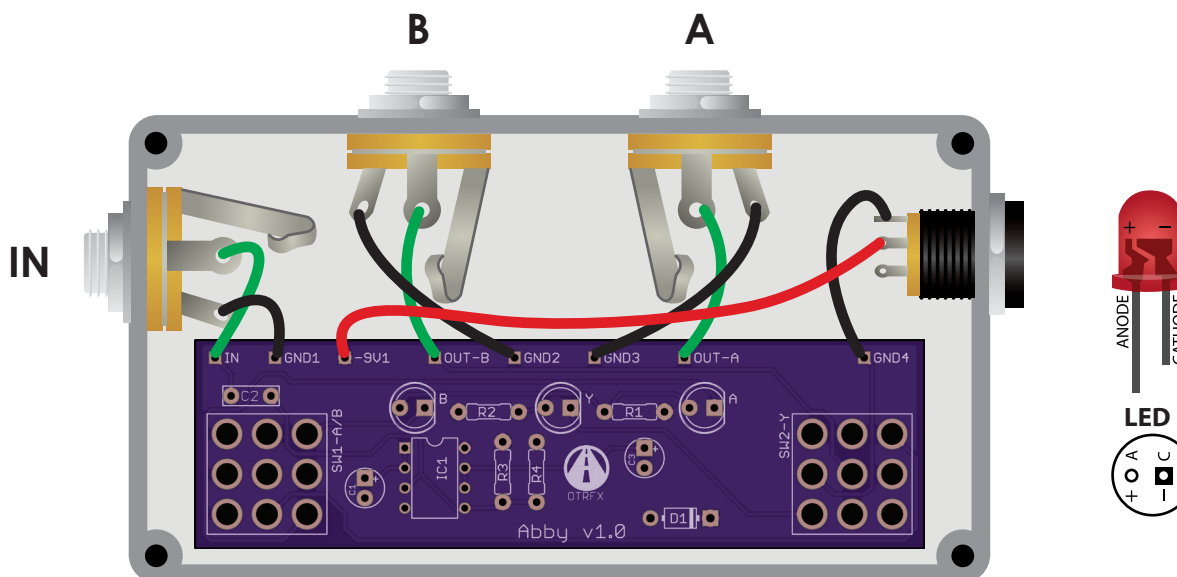
D1	1N4001
D2 (A)	LED 5mm
D3 (B)	LED 5mm
D4 (Y)	LED 5mm

Jacks

1/4" Mono open frame jack
1/4" Mono open frame jack
1/4" Mono open frame jack
2.1mm DC Jack

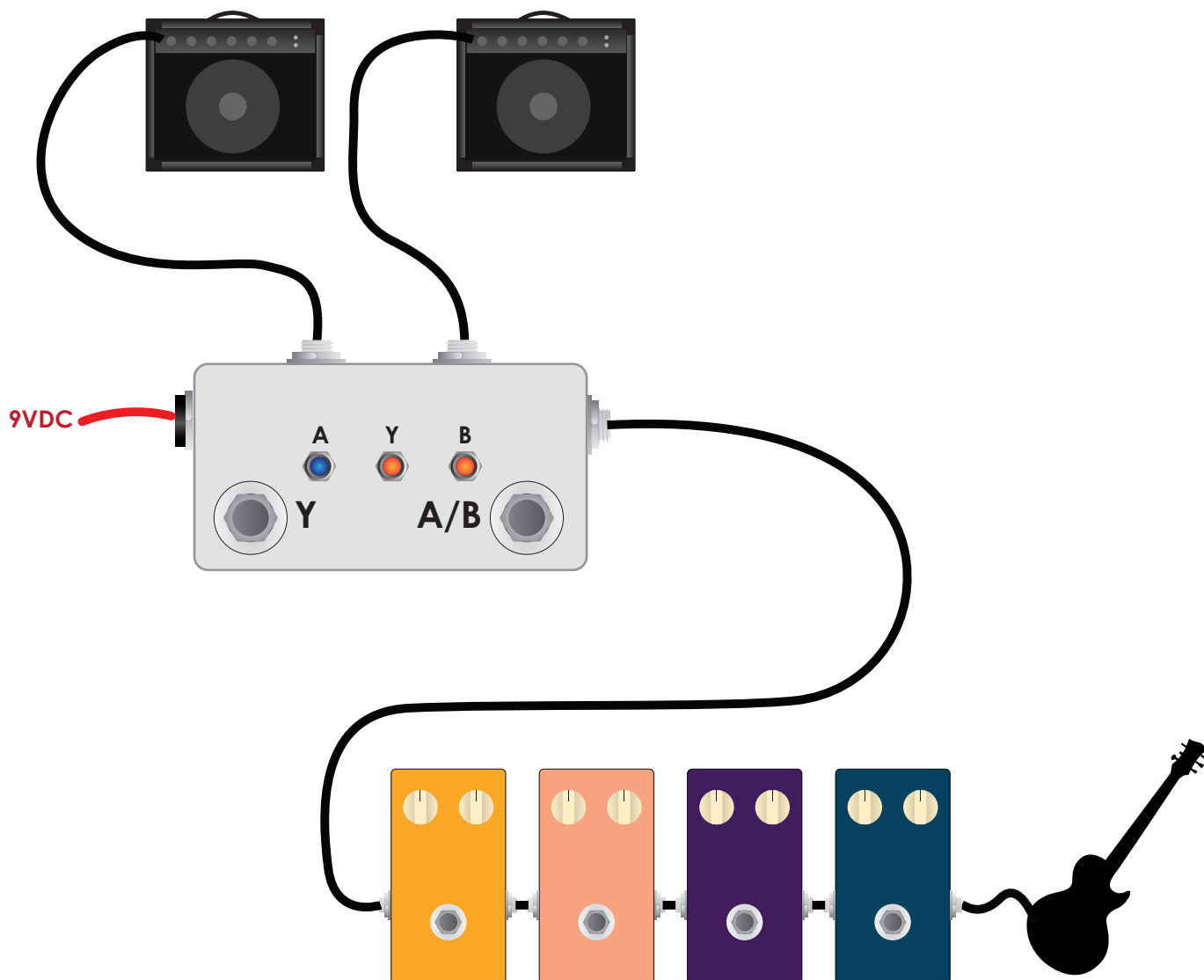
Switches

SW1 (A/B)	3PDT solder-lug
SW2 (Y)	3PDT solder-lug



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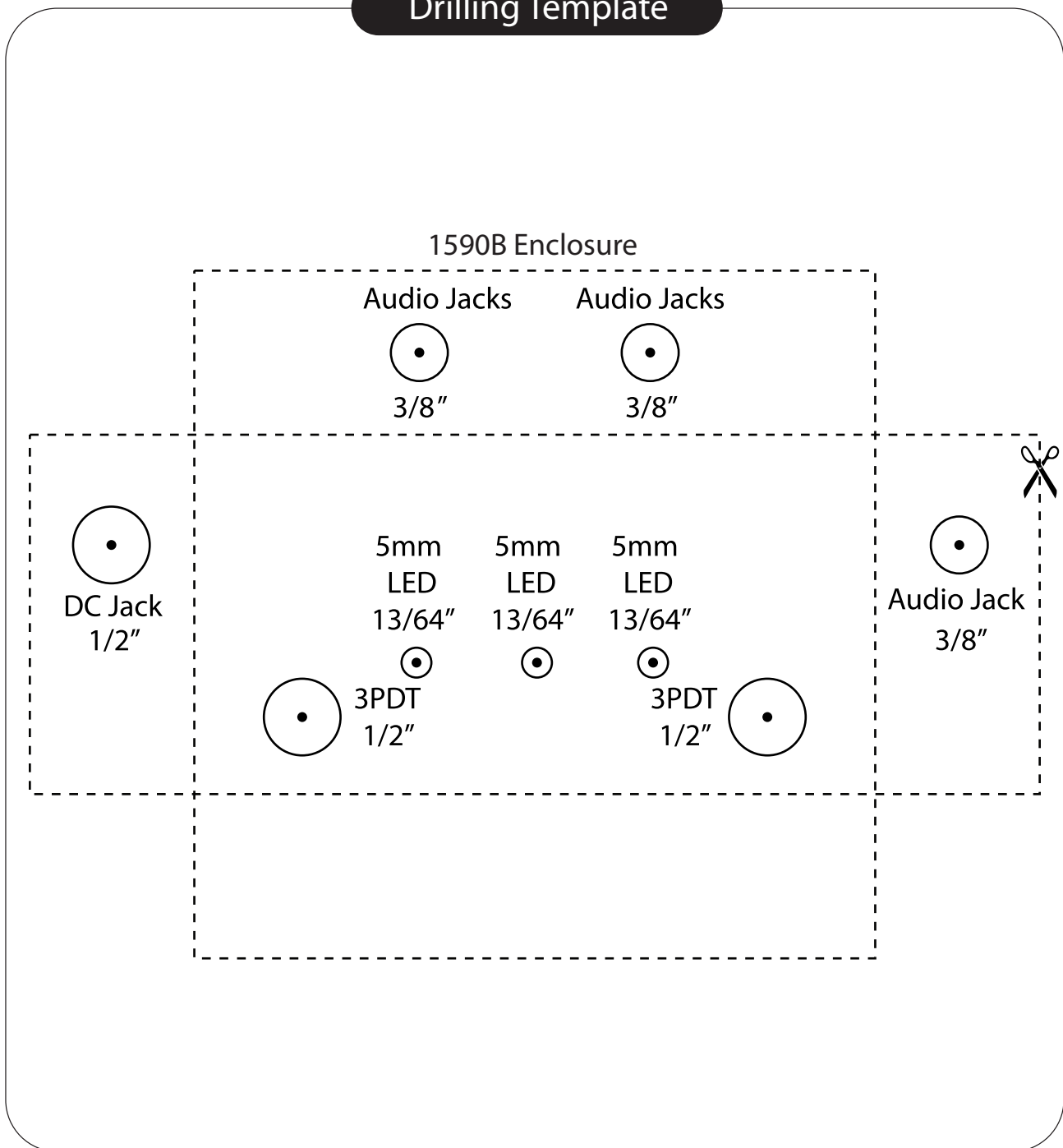
Amplifier A Amplifier B



Pedal Chain / Guitar

Abby (v1.0) Build Guide

Drilling Template



Abby (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:

Tayda Electronics
Mouser
Love My Switches
Small Bear Electronics

Website:

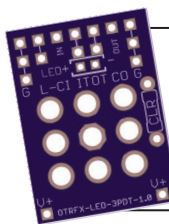
taydaelectronics.com
mouser.com
lovemyswitches.com
smallbear-electronics.mybigcommerce.com

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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