

Passive A/B/Y Switch Box (3 LED, Grounded Input) Instructions

Version 2013November28

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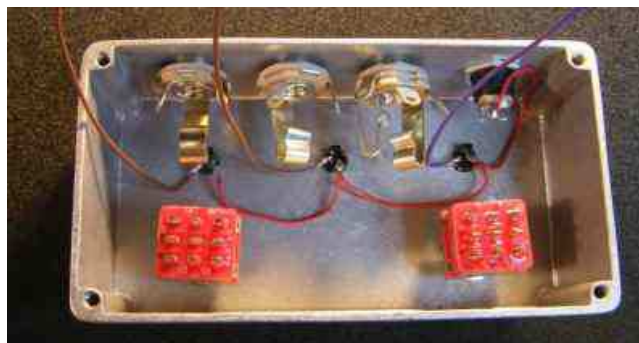
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This is the A/B/Y Switch Box kit. Simply a passive switch box to switch one input to two outputs or two inputs to one output. It has an addition switch to switch on both A and B at the same time. It is called passive, since the signal paths do not have any active circuits (no boost or buffering, etc). The 9 volt power going into the box is only to control the LED indicators.

Use the project documents provided, be sure to read through the General Build Instructions, even though there is no circuit board on this project. Just wire the jacks, switch, resistor and LEDs according to the wiring diagram.

- 1 - Mount all the parts into the enclosure as shown in the photos above.
- 2 - Solder tack all the wiring to the LED as shown below. To solder tack - strip the end of the wire, put some solder on it and put some solder on the trimmed down LED wire and hold the two together and touch it with the soldering iron. Hold it still till it cools.



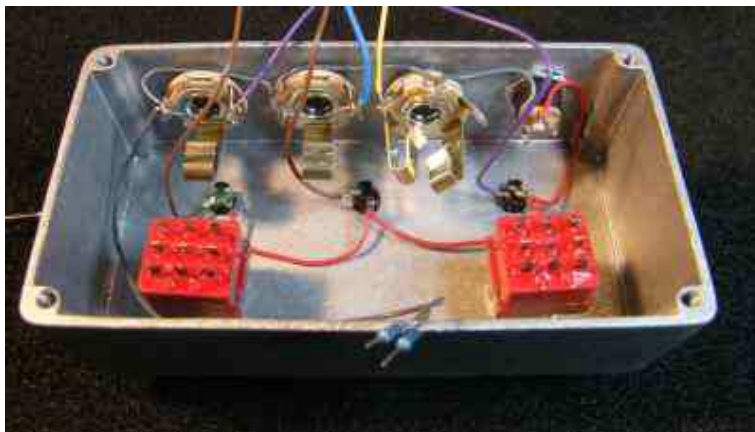
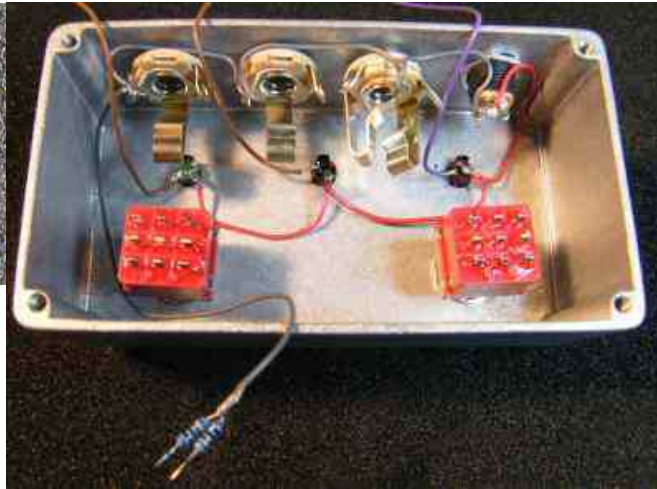
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3 – Solder the wires to the jacks. On the extra ground wire solder tack the two 1k resistors to the end. Start by twisting the two 1k resistors together on one end. Trim the extra off the twisted end and then solder tack the wire to both



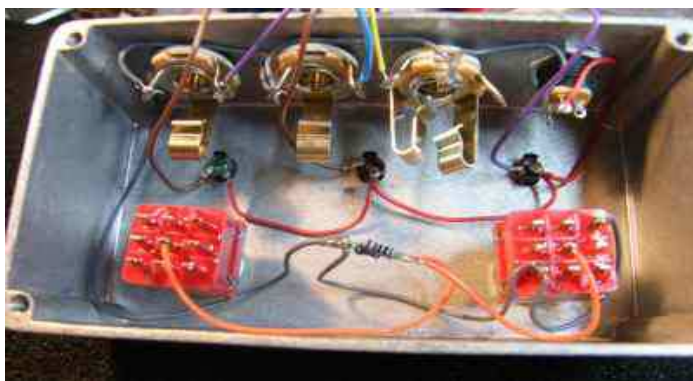
4 – Solder tack the other ends of the resistors to wires and wire and solder them to the switches according to the wiring diagram.

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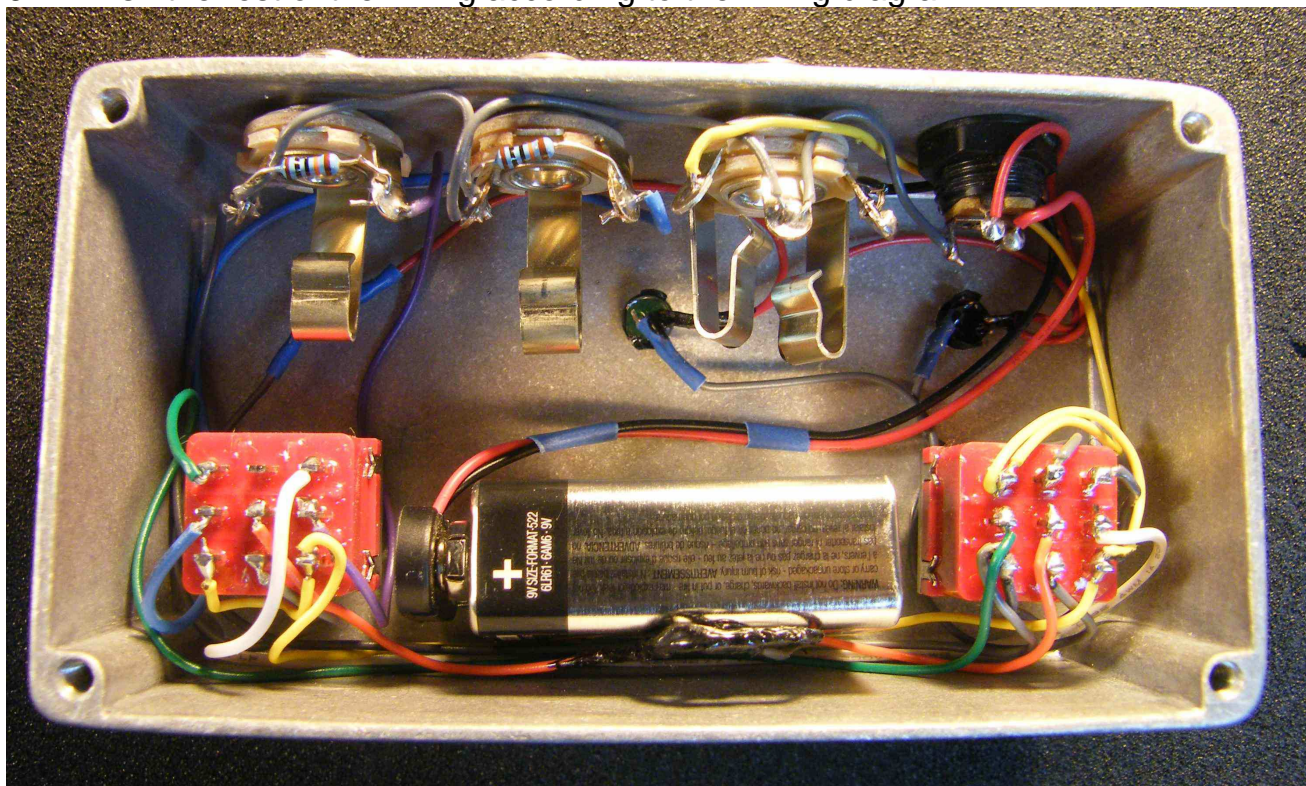
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5 – Finish the rest of the wiring according to the wiring diagram.



The photo shows the kit completed. Insulating the bare solder joints can be a bit tricky. We used heat-shrink tubing on some of them, but there are several connections with three wires, so tubing won't work. We used Liquid Electrical Tape to insulate the LED resistors and connections and also the 3-way LED connections. If you internet search “liquid electrical tape” you can find several sources and it is



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GREAT STUFF to have around the work bench!

That's it. Very simple project and it can be a very useful tool. This could easily be upgraded to an "active" ABY switcher by adding a couple of IC Buffers on the A and B outputs.