

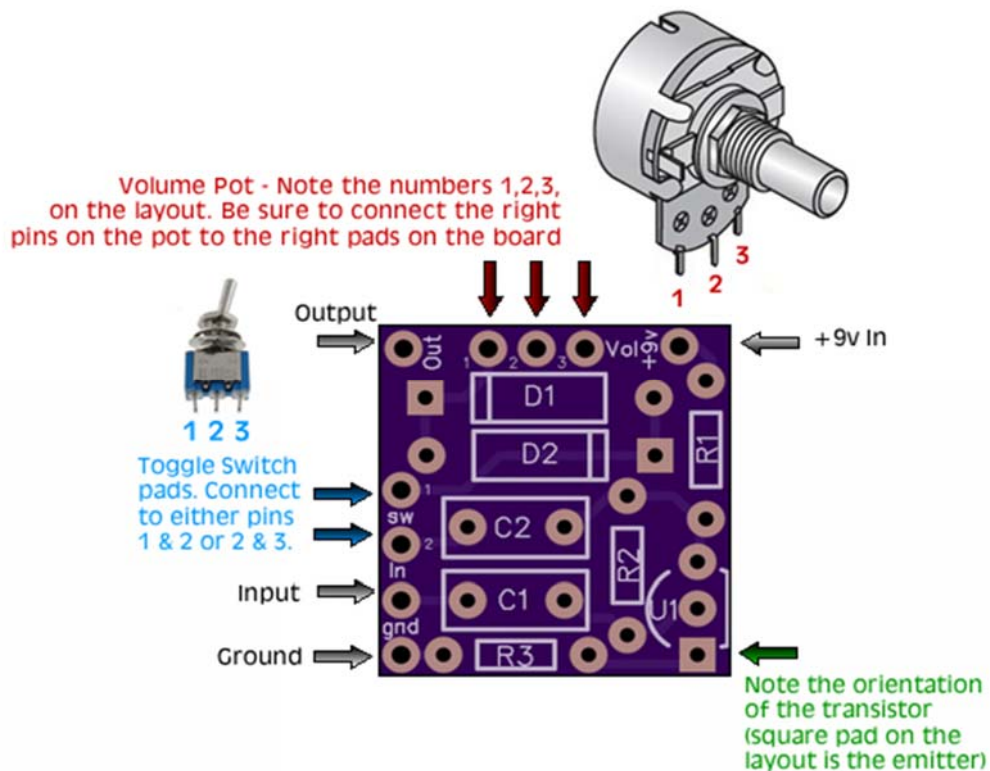


10 Min Dirt & Boost

A transistor booster and overdrive based on the Electra Distortion™ with switchable diode clipping stage. As well as a versatile light overdrive (“dirt”) and boost pedal I find both the clean and dirty output of this effect blends well when used to boost the front end of *another* overdrive / distortion.

Bill of materials

Resistors		Capacitors		Diodes	
R1	3.3k	C1	100nf (104)	D1	1n34a (Any GE Diode)
R2	2.2M	C2	100nf (104)	D2	1n34a (Any GE Diode)
R3	680R				
Transistor		Boost Switch		Potentiometer	
U1	2n3904	SW	SPDT(on-on) Toggle Switch	Volume	100ka Log

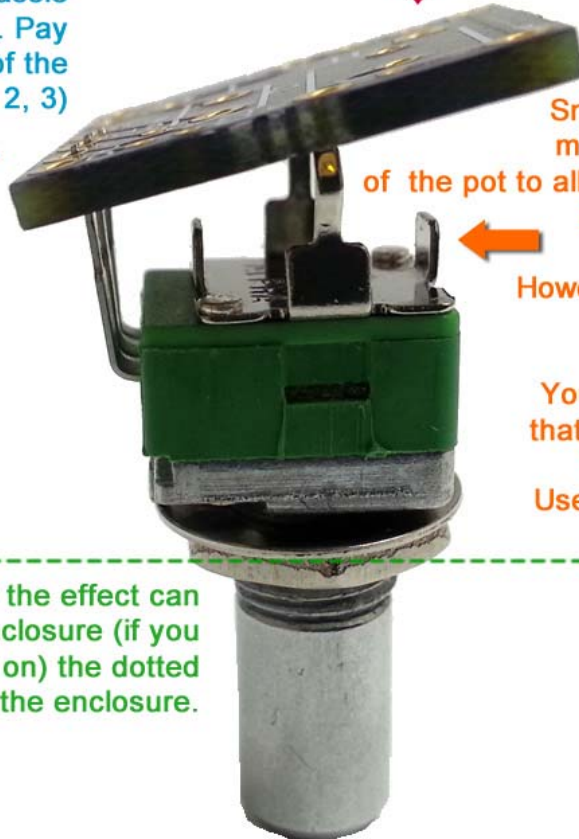


Tip for soldering 9mm Alpha Pots

The 9mm Alpha potentiometers that are included in our kits can be soldered directly to the PCB saving the hassle of connecting them with wires. Pay close attention to the pinout of the pot (1, 2, 3)



This is the component side of the pcb



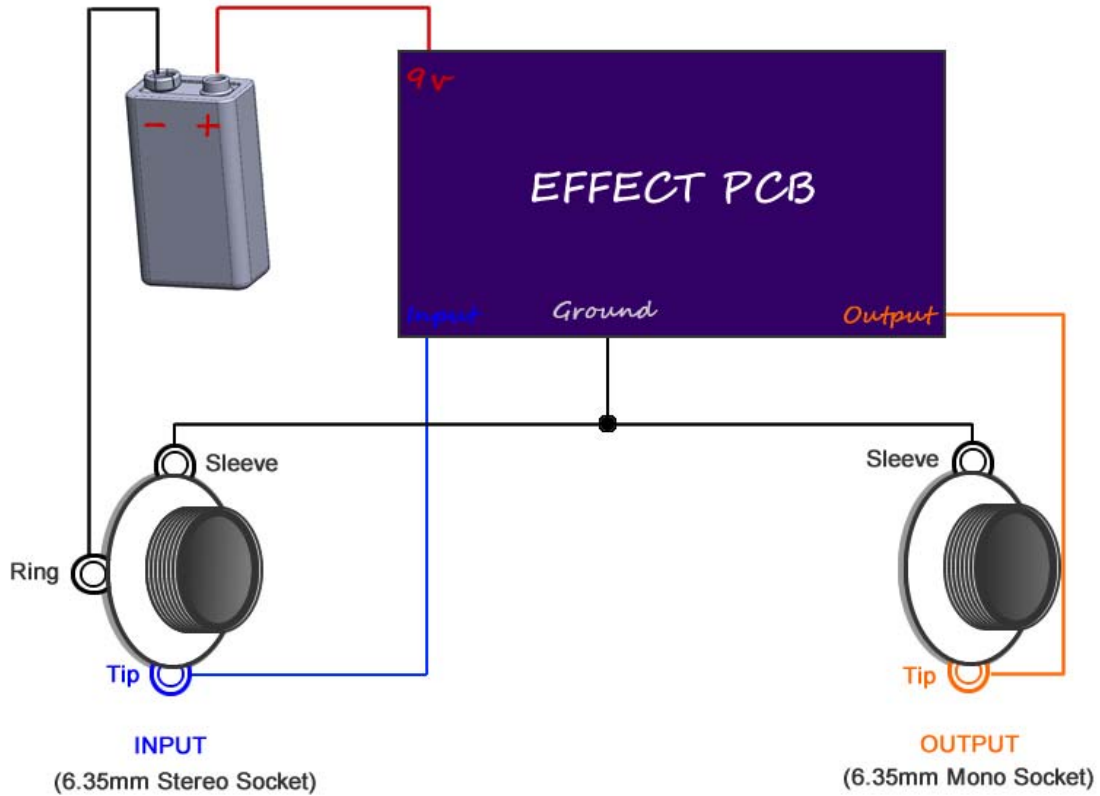
Snip off or bend these four mounting lugs on the back of the pot to allow the pcb to be lowered closer to the back of the pot for soldering. However DO NOT remove the entire plate from the back of the pot. You will also need to ensure that the back plate of the pot does not touch anything. Use some double side tap to insulate it from the pcb

To help you visualise how the effect can be installed inside an enclosure (if you decided to do so later on) the dotted line above indicates the enclosure.



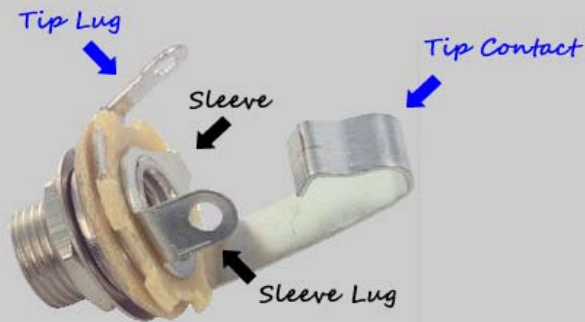
Testing Your Effect

Using aligator clips or soldering directly, wire your effect as in the following...



Input and Output Sockets

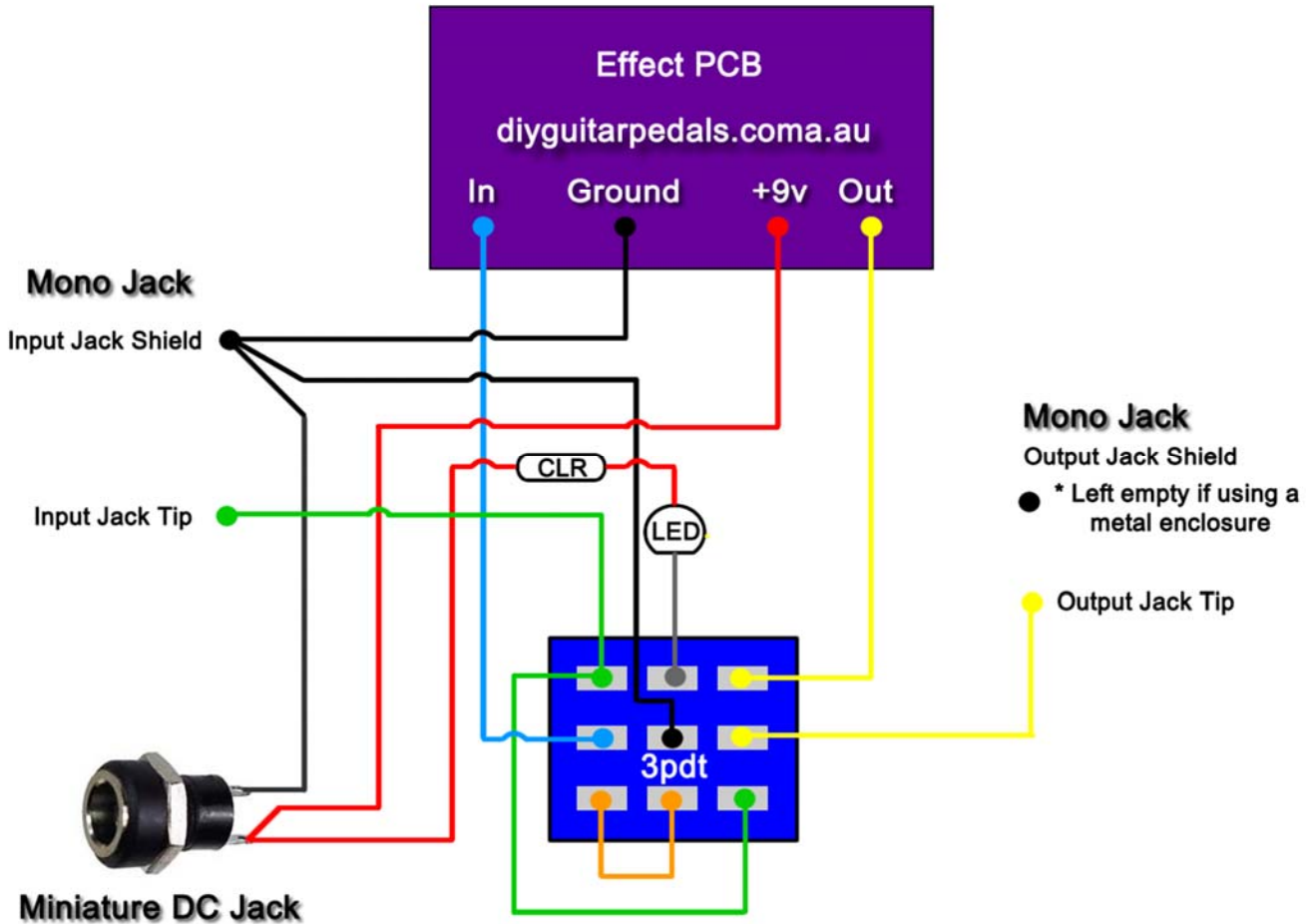
Pay close attention to the lugs of your sockets. Look at them side on so that you can distinguish the sockets individual layers. For instance the tip lug is connected to tip contact. The stereo jack looks the same as the socket below except it has an extra lug and contact for "Ring".



Note, you can still test your effect with 2 mono jacks, just combine the negative of the battery with the ground input sleeve connection.

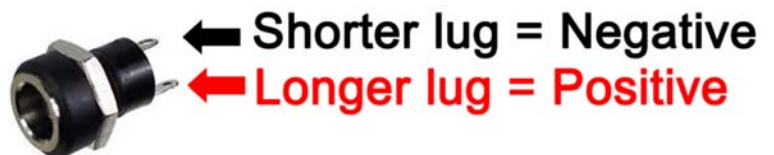
Offboard Wiring Diagram

Using a non-switched Miniature DC Jacks and 2 Mono Jacks (kit option with diyguitarpedal kits)

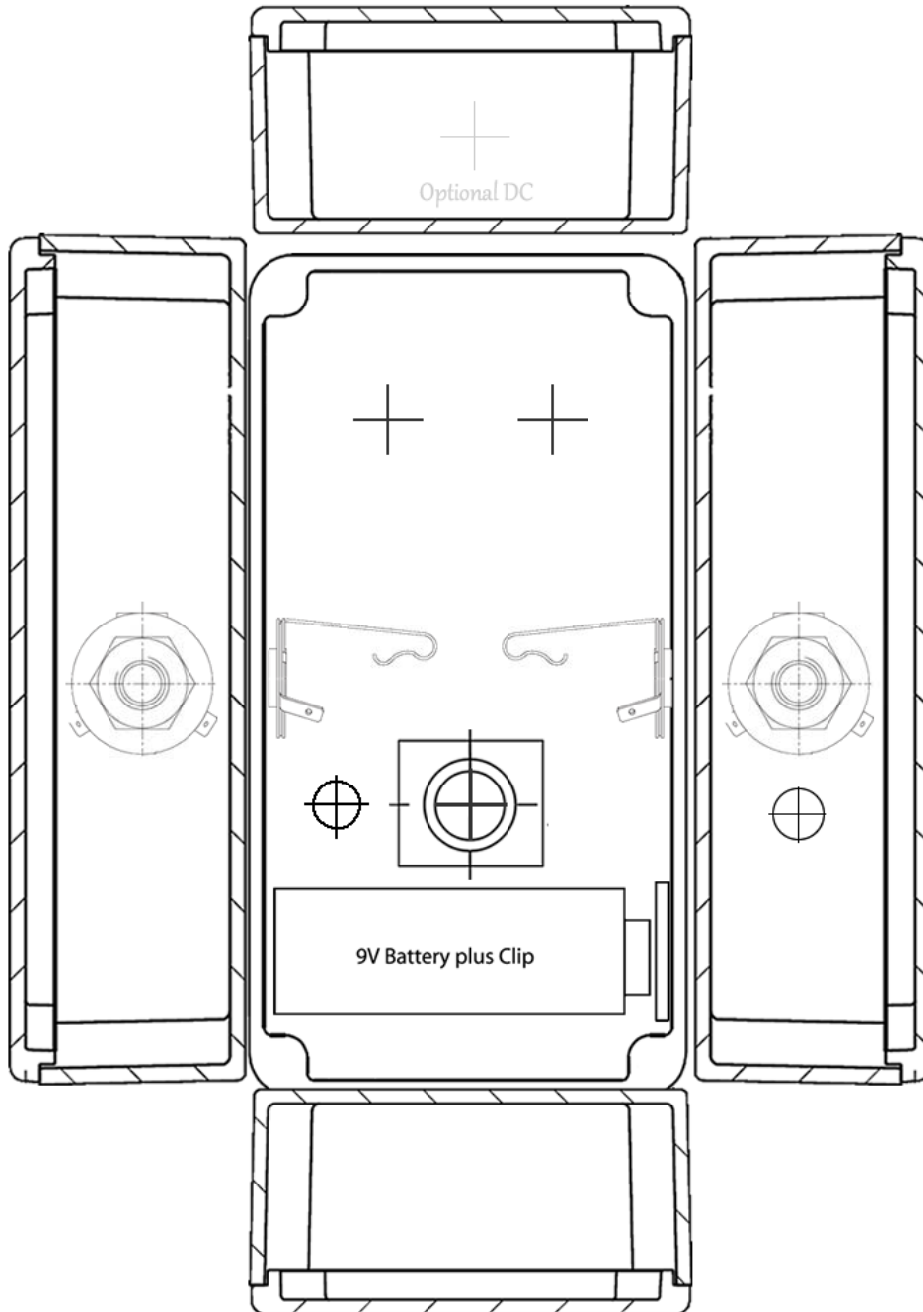


The Lugs of the Miniature DC Jack

The miniature dc jacks that are sold as a kit option with pcbs have 2 lugs, 1 short and 1 long and should be connected as shown in the picture to the right. To confirm which lug is which, sight done the socket hole, you should be able to see which lug is connected to the pin and which is connected to the barrel of the jack. Also note that miniature dc jacks do not allow for battery switching, they can only be used for DC power.



1590b Drill Guide



*Due to variances in hardware and enclosures,
please use this template as a guide only.
Check dimensions before committing to your drill holes.*