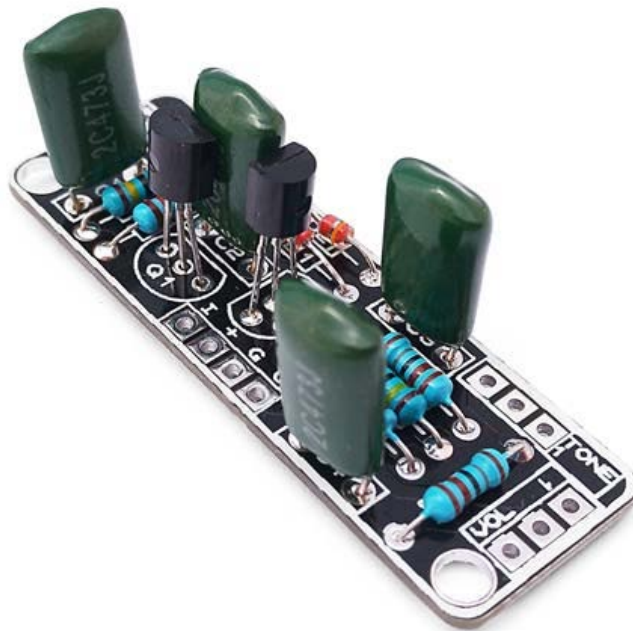


Astrotone Fuzz Kit Building Manual







Effect Pedal Kits:

Astrotone Fuzz

This pedal is identical to the Sam Ash Fuzz, and is a very rare (and expensive!) fuzz effect pedal. Now, with the Astrotone Fuzz Kit you can build your own one! This fuzz pedal is all silicon: forget about maintenance or temperature changes affecting your tone. The Astrotone Fuzz allows you to mimic almost any fuzz tones you can think of!

The Tone knob sets the form of the distortion and allows to change the tone color of the output. The Attack knob sets the amount of distortion produced, while keeping the color. Dial it to the maximum for a clear and distorted signal, and turn it to a lower setting to soften the sound. The Astrotone Fuzz is really sensitive to the input volume, so you can drastically change the sound just by rolling off your instrument's volume knob.

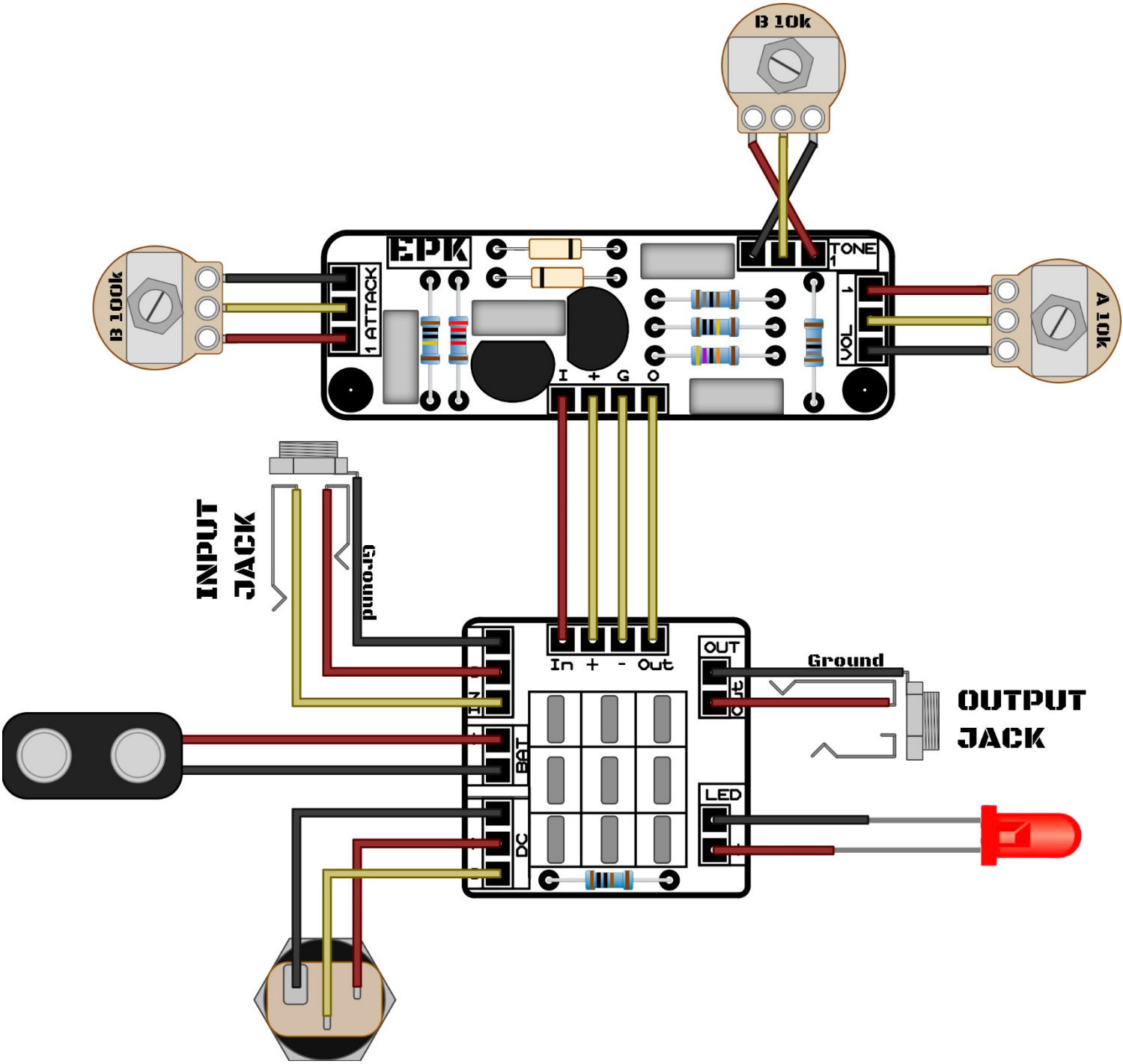
BOM (1/2)

Resistors (6)				Capacitors (4)		
2	R1, R3	1M		4	C1, C2, C3, C4	47n
1	R2	22k				
1	R4	470k				
2	R5, R6	1.8k				

BOM (2/2)

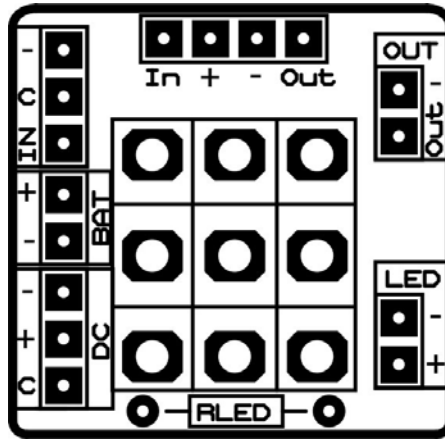
Diodes, Transistors and ICs			Generic Parts and Potentiometers		
1	Q1	PN3565	1	Battery clip	
1	Q2	2N3904	1	DC Jack	
2	D1, D2	1N914	1	RLED	1k LED resistor
			1	LED Bezel	
			1	3PDT	
			2	IN, OUT	6.35mm Jacks
			1	10k Linear (B) Potentiometer	Tone
			1	10k Logarithmic (A) Potentiometer	Vol
			1	100k Linear (B) Potentiometer	Attack

Component Placement

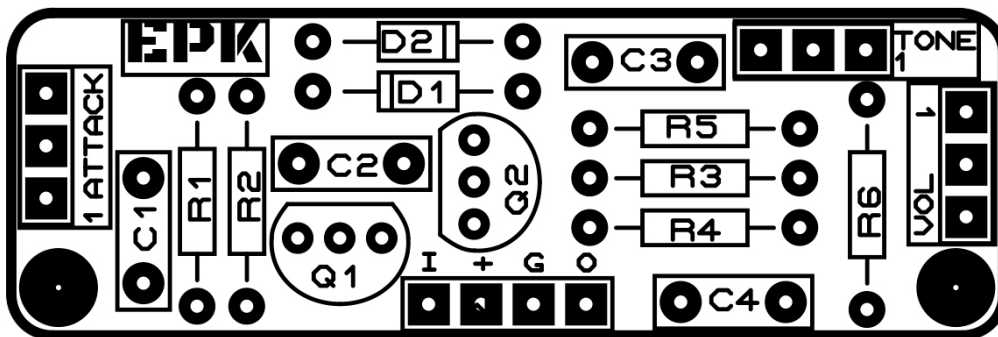


Board Layouts

3PDT PCB

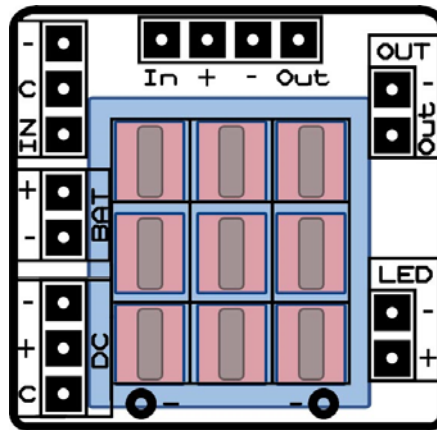


Effect PCB



Building Tips

- 1- Pay attention to the **orientation of the 3PDT!** In the following picture you can see how the 3PDT pins should be positioned (inserting the pins in the holes can be a bit tight to avoid movement while soldering):



- 2- For a proper soldering you just have to apply the **right amount of solder wire**. A right solder joint should have a concave shape around the joint and look like this:

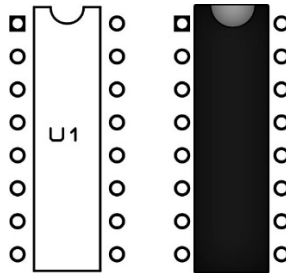


- 3- Don't apply too much heat! When soldering, the time you hold the solder iron against the joint should be **as short as possible** to avoid damaging any part (a few seconds should be enough). If you can't get a solder joint right, **let it cool** a bit before trying again.
- 4- If having troubles with the building, checking the schematic in the last page will help you find **where the audio signal stops**. When you find the spot, check out that **everything around that joint is ok** (components placed at their right place, solder joints...).

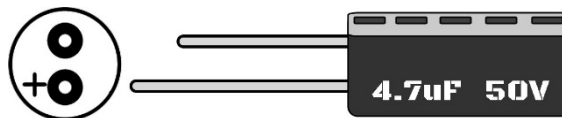
Building Tips

5- Pay attention to the **parts that have a polarity** and make sure they are connected as in the component placement picture:

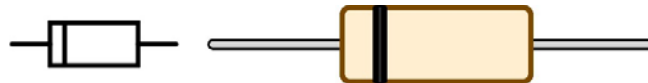
- **ICs** (they have a small dot or indication that must fit the indication in the board)



- **Electrolytic capacitors** (longer pin is connected to the “+” hole):



- **Diodes** (check for the mark and make it fit with the one in the PCB):



- **Leds** (longer pin is connected to the “+” hole)



- **Transistors** (inserted to fit the drawing in the PCB)



To avoid any issue, check the latest building manual. Use the pictures only as a reference! Colors/shapes can change slightly, always check the part polarity, resistor values, potentiometer placement... before soldering.

Schematic

