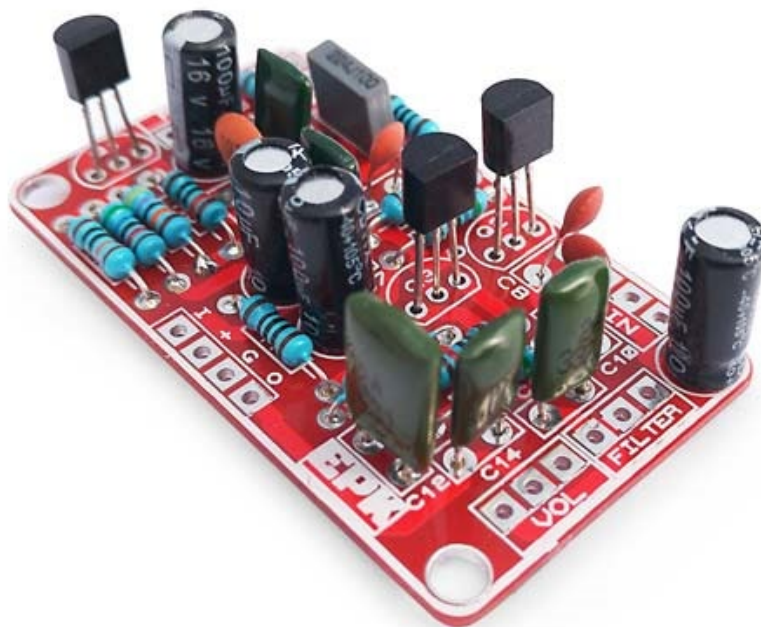




Moon Fuzz Kit Building Manual



Effect Pedal Kits:

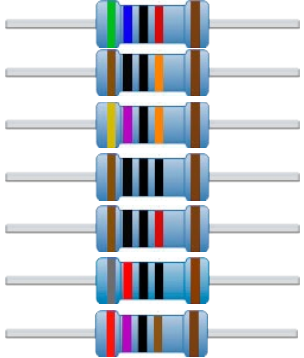
Moon Fuzz

A **silicon fuzz** with a dark and brooding character, the **Moon Fuzz** is designed around the fuzz tones you can hear on **Pink Floyd's** *Dark Side of the Moon* from 1973. But the Moon Fuzz is a **versatile pedal** that goes way beyond that: at low settings it works great as an **overdrive** pedal, something atypical with fuzz pedals, and at maximum settings it delivers some thick and sick fuzz tones. The **Moon Fuzz** reacts greatly to your playing **dynamics**, and thanks to its voicing cuts perfectly **through any mix**.

Oppositely to many fuzz pedals the **Moon Fuzz** can be placed almost **anywhere in your effect pedal chain** with almost no change in the sound thanks to its internal configuration. Additionally, it's very **consistent** and doesn't "get out of control" to a point where it's almost unplayable other fuzzes do. It has five knobs that will allow you to shape the sound to your desire:

- *Volume*, to set the amount of **output** of the pedal
- *Pre* adjusts the **gain** of the input transistor (noisier and more aggressive all the way up, and quieter as you dial it back)
- *Sharp* sets the amount of **bass** that will go to the fuzz section. This translates in a sound going from a tight and thin to a full-voiced and thick.
- *Gain* lets you **dial the fuzz** from a gritty and touch sensitive overdrive to a fully saturated and aggressive fuzz.
- *Filter* sets the amount of **brightness** of the Moon Fuzz

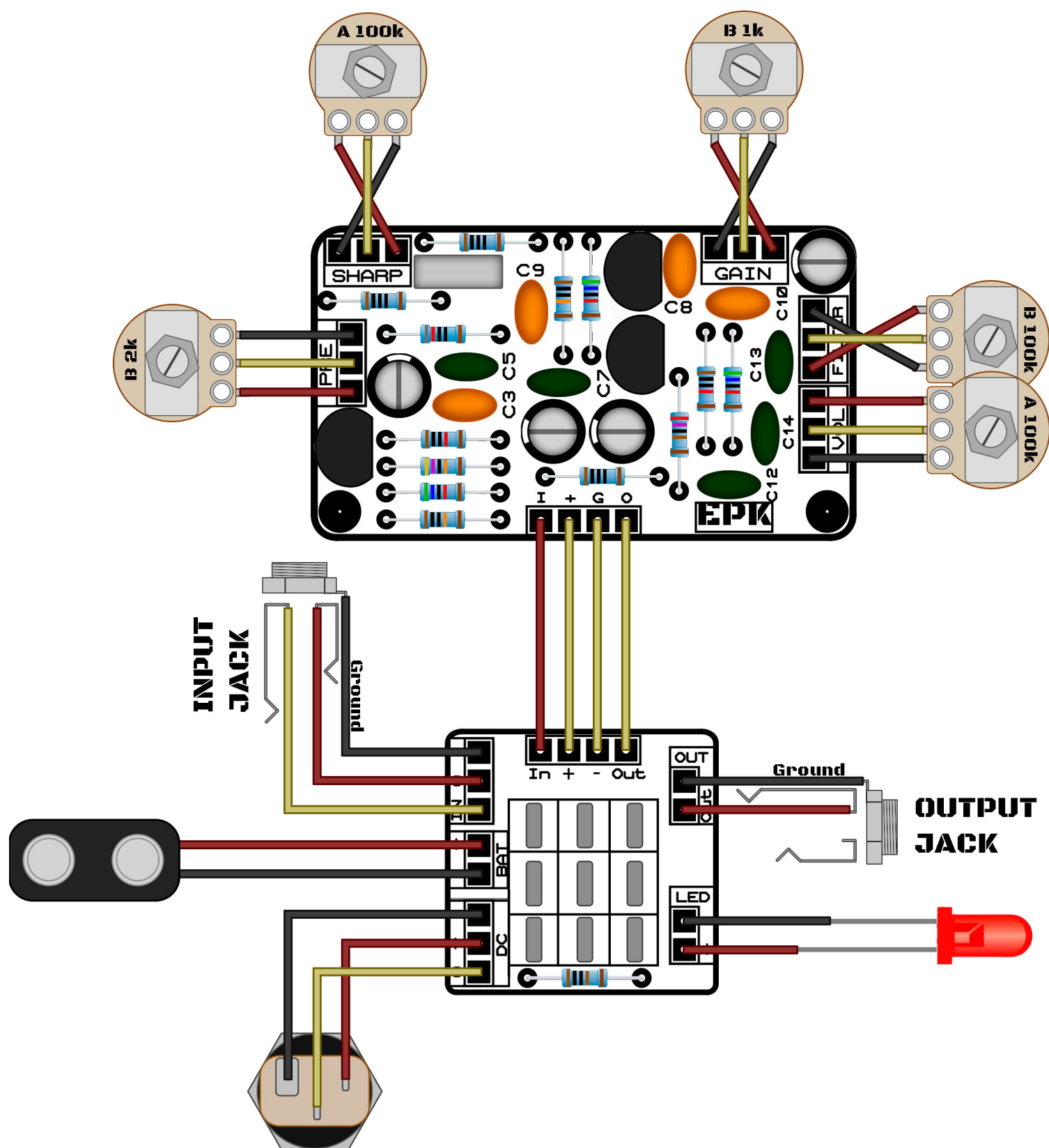
BOM (1/2)

Resistors (13)				Capacitors (14)		
3	R1, R10, R11	56k		1	C1	10u (electrolytic)
2	R2, R9	100k		3	C2, C4, C11	100u (electrolytic)
1	R3	470k		1	C3	100p (ceramic)
3	R4, R6, R8	100		1	C5	5.6n
2	R5, R12	10k		1	C6	220n
1	R7	820		1	C7	4.7n
1	R13	2.7k		2	C8, C10	220p (ceramic)
				1	C9	500p (ceramic)
				1	C12	15n
				1	C13	3.3n
				1	C14	2.2n

BOM (2/2)

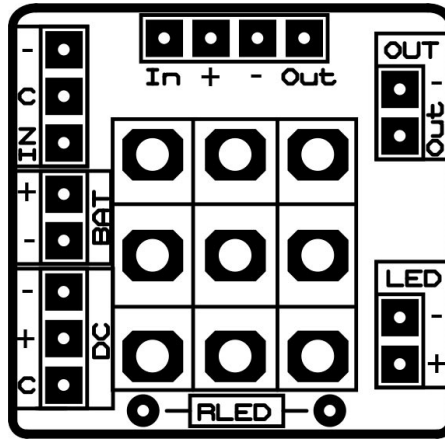
Diodes, Transistors and ICs			Generic Parts and Potentiometers		
3	Q1, Q2, Q3	2N5089/2N5088	1	Battery clip	
			1	DC Jack	
			1	RLED	1k LED resistor
			1	LED Bezel	
			1	3PDT	
			2	IN, OUT	6.35mm Jacks
			1	100k Linear (B) Potentiometer	Filter
			2	100k Logarithmic (A) Potentiometer	Sharp, Vol
			1	1k Linear (B) Potentiometer	Gain
			1	2k Linear (B) Potentiometer	Pre

Component Placement

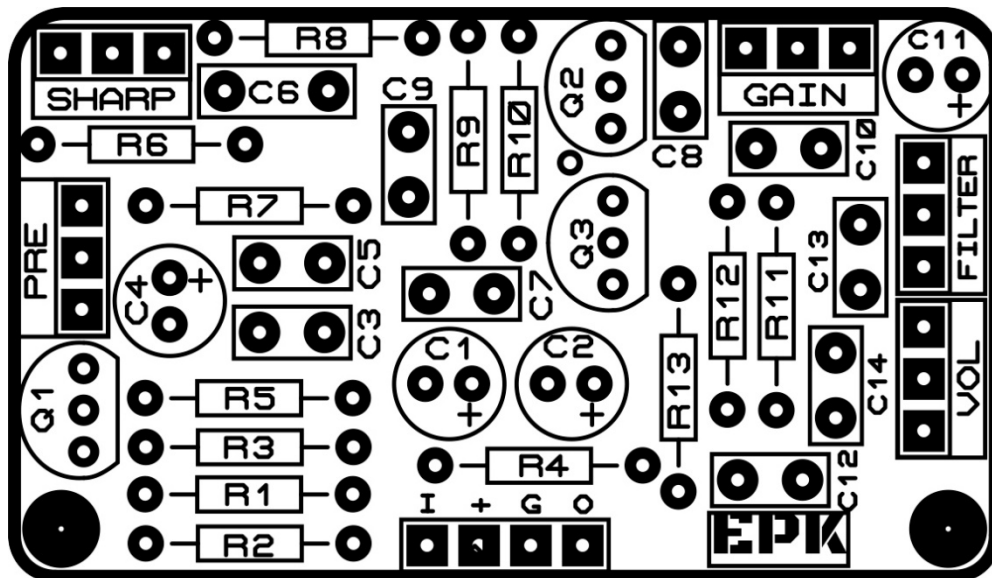


Board Layouts

3PDT PCB

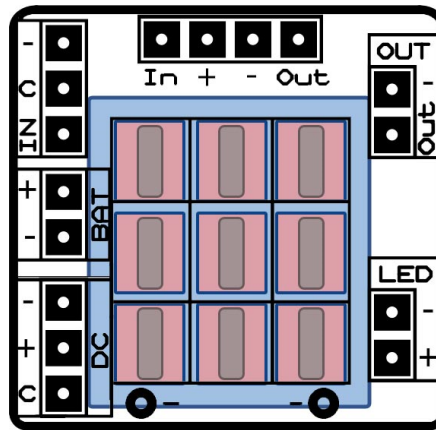


Effect PCB



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:

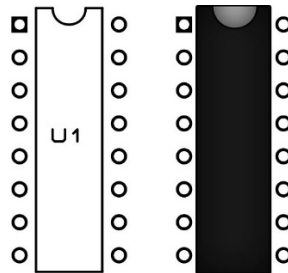


- 3- Don't apply too much heat! When soldering, the time you hold the solder iron against the joint should be **as short as possible** to avoid damaging any part (a few seconds should be enough). If you can't get a solder joint right, **let it cool** a bit before trying again.
- 4- If having troubles 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:

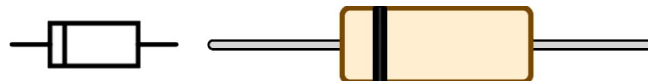
- **ICs** (they have a small dot or indication that must fit the indication in the board)



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



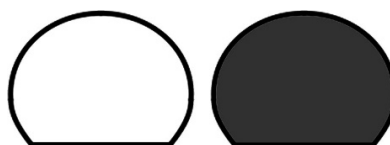
- **Diodes** (check for the mark and make it fit with the one in the PCB):



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

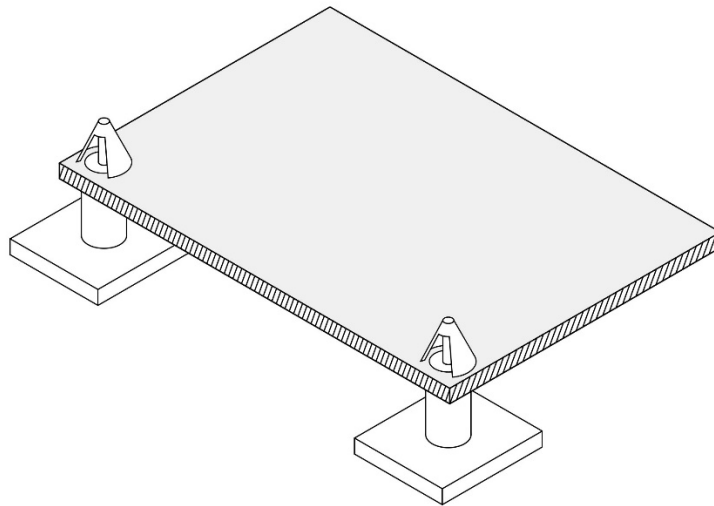


- **Transistors** (inserted to fit the drawing in the PCB)



Building Tips

- 6- With the kit we include plastic PCB supports with an adhesive bottom. You can use them to anchor the PCB to your enclosure for a better stability. Just insert the PCB support tip into the 3.5mm holes and remove the adhesive protective film.



To avoid any issue always check the latest building manual. Use the pictures only as a reference! Colors/shapes of wires, PCB or parts can change slightly, this doesn't affect their functionality in any way.

Always double check part polarity, resistor and capacitor values, potentiometer placement, IC orientation... before soldering.

Schematic

