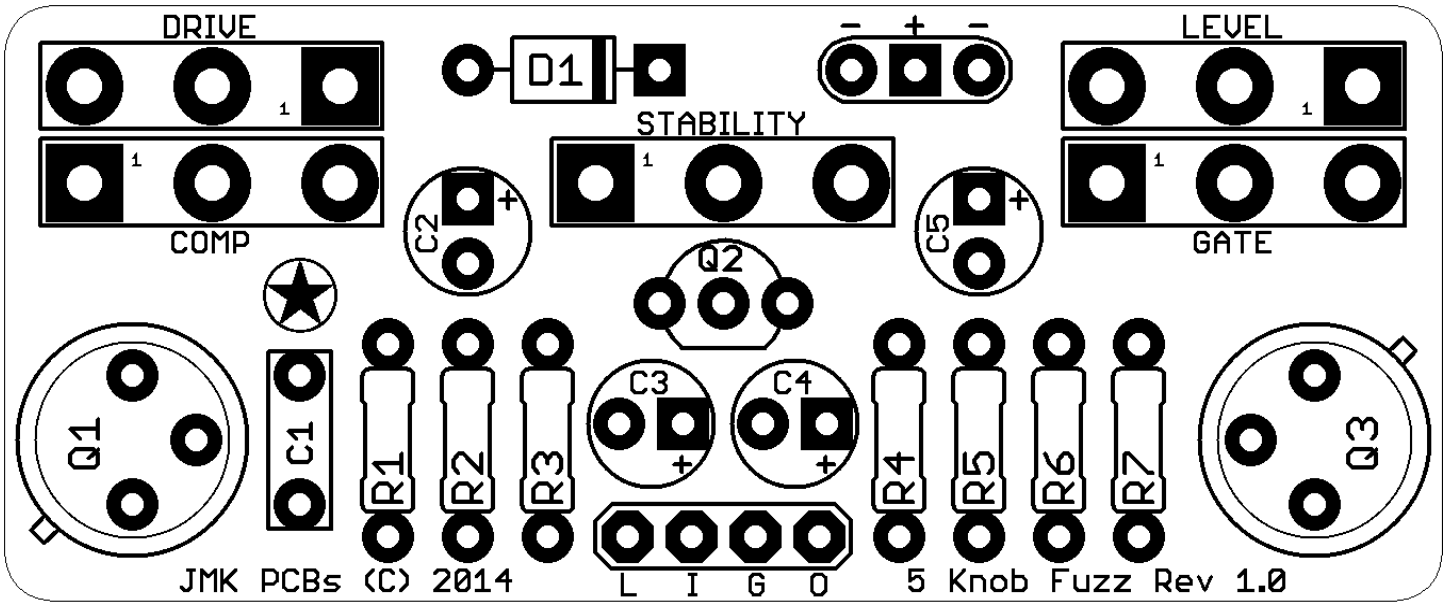
JMK PCBS PRESENTS...

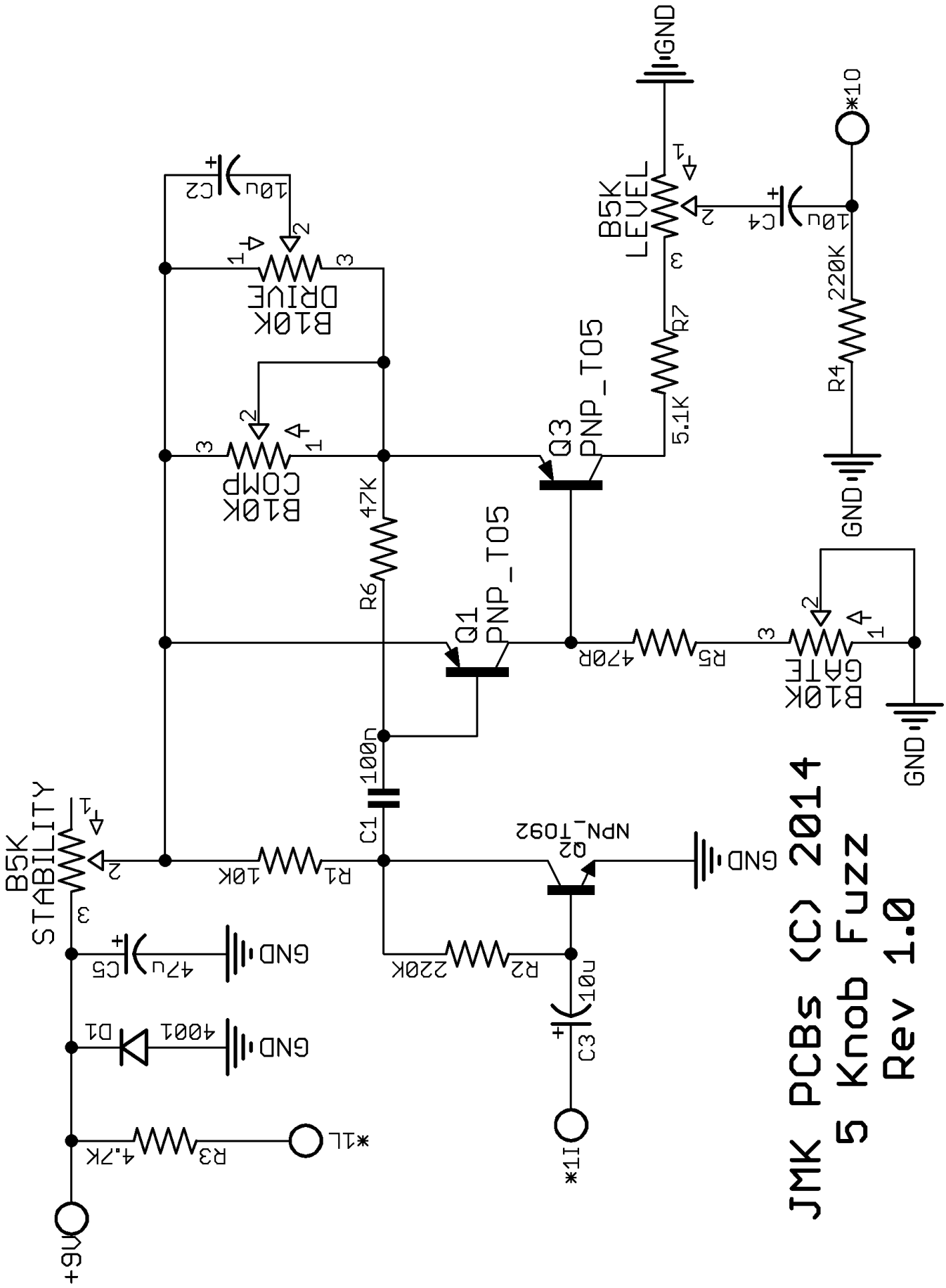
5 KNOB FUZZ

PCB AND SCHEMATIC ARTWORK (C) 2014 JMK PEDALS

VERSION 1.0: 03/17/2014



Resistors		Capactitors		Potentiometers		Semiconductors	
R1	10K	C1	100n	DRIVE	B10K	Q2	2N3904
R2	220K	C2	10u	COMP	B10K	Q1, Q3	PNP
R3	4.7K	C3	10u	STABILITY	B5K	Diodes	
R4	220K	C4	10u	GATE	B10K	D1	1N4001
R5	470R	C5	47u	LEVEL	B5K		
R6	47K						
R7	5.1K						



Build Notes

• The 5 Knob fuzz is essentially a modified Fuzz Face, with the addition of some really great mods. In particular, this fuzz can give you some really crazy sounds, continuous feedback, as well as the standard Germanium transistor fuzz sounds you'd expect out of a Fuzz Face type circuit.

• The real key in this circuit are, of course, the transistors. Using a pair of GE transistors for Q1 and Q3, you should expect to use Fuzz Face gain and leakage numbers the values you should use have some wiggle room, but it's generally accepted that you should use a 65-95 HFE rating for Q1, and a 95-125 HFE rating for Q2. If you use a lower gain (i.e 70 HFE) transistor for Q1, it would make sense to use a lower gain (i.e 100 HFE) transistor for Q2. It's been suggested that the numbers are not as important as the ratio between the two values.

• Hooking up the PCB is pretty simple, but to clarify: L = the connection for the + end of an LED; I = PCB Input; G = Ground for the Switch; O = PCB Output; + = 9V input; - = Ground for DC Jack; GND = Extra Ground for 1/4" Jack

• The transistors used in this project are very influential on the tone and character of the fuzz. Keep in mind that the pinout of the transistors needs to be considered when installing. **We highly recommend socketing your Transistors!** Socketing allows you to try various options out and to replace if they become non-functional.

True Bypass Wiring Diagram