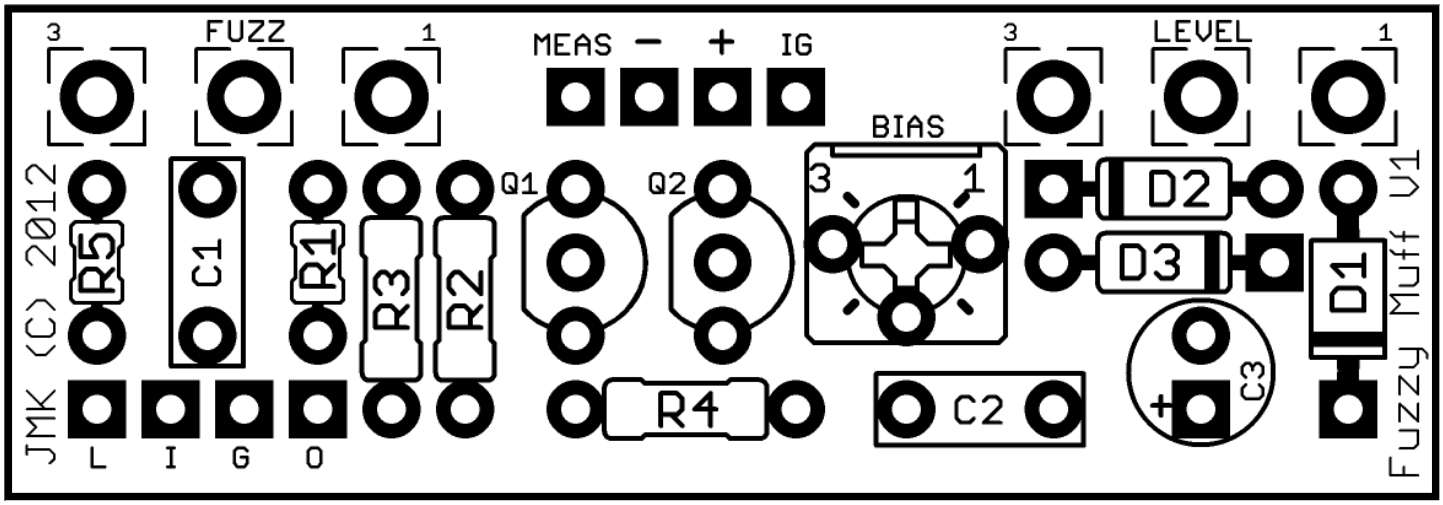
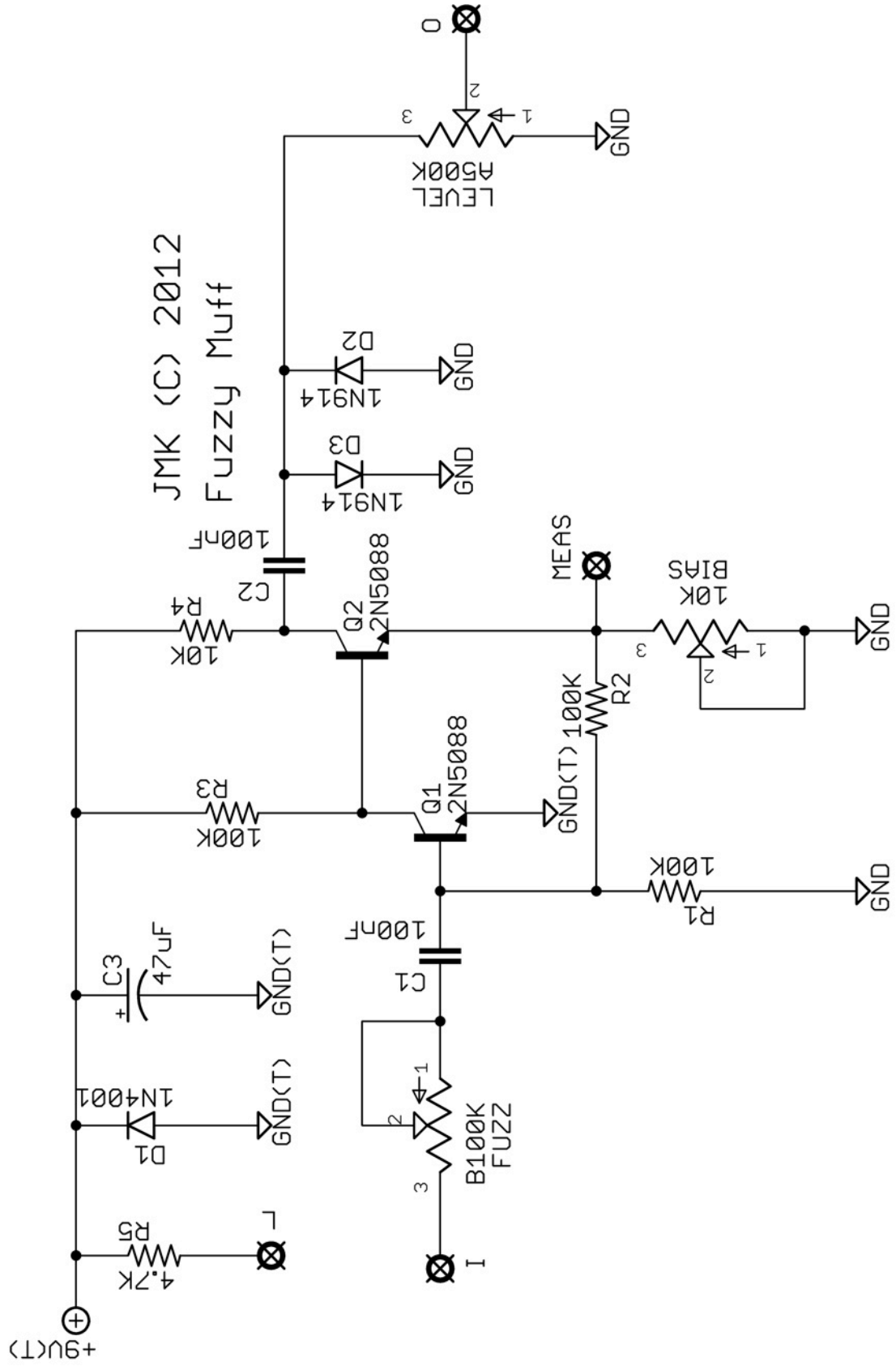
JMK PCBS PRESENTS...

FUZZY MUFF

VERSION 1: 9/25/2012



Resistors				Capacitors				Transistors	
R1	100K	R4	10K	C1	100nF	C3	47uF	Q1, Q2	2N5088
R2	100K	R5	4.7K	C2	100nF			Potentiometers	
R3	100K			Diodes				FUZZ	B100K
				D1		1N4001		LEVEL	A500K
				D2, D3		1N914		BIAS	10K



Build Notes

• The Fuzzy Muff is slightly modified clone of the original Muff circuit, the Muff Fuzz. The basic mods include some power filtering, reverse voltage protection, and a bias trim pot rather than fixed bias. The most important mod is the inclusion of a pre-gain fuzz knob which didn't exist in the original schematic and is a fairly large departure from the original effect.

• Hooking up the PCB is pretty simple, but to clarify: L = the connection for the + end of an LED (CLR is R24); I = PCB Input; G = Ground for the Switch; O = PCB Output; + = 9V input; - = Ground for DC Jack; IG = Extra Ground for your 1/4" Input or Output Jack

• Like with most Muff Pedals, the Transistors are an integral part of the sound. Pretty much any NPN BiPolar Silicon transistor can be used. Keep in mind that the pinout of the transistor needs to be considered when installing. **We highly recommend socketing your transistors!** Socketing allows you to switch your transistors easily if you have installed them backwards, and also allows you to swap out and try other transistors to see which you like the best. Options to try include, but is not limited to: 2N5088, 2N5089, BC549, BC550, BC560, 2N5113, BC239.

• The expected trimpot size is 1/4" square. The bourns 3362 series fits very well.

• We have included an extra pad which is handy for measuring the bias of the transistors. To use the pad for measuring, you'll need a DMM with probes. Here's how you do it:

    • Turn your DMM to measure resistance in Ohms. Set it for something that will measure between 0 and 10K.

    • Attach/touch your black probe to ground.

    • Attach/touch your red probe to the 'meas' pad

    • Adjust the trim pot, you should see the reading of the DMM change as you turn

• The Pot spacing is 1.3" from centre to centre

• The PCB measures .675" tall and 1.95" wide

True Bypass Wiring Diagram