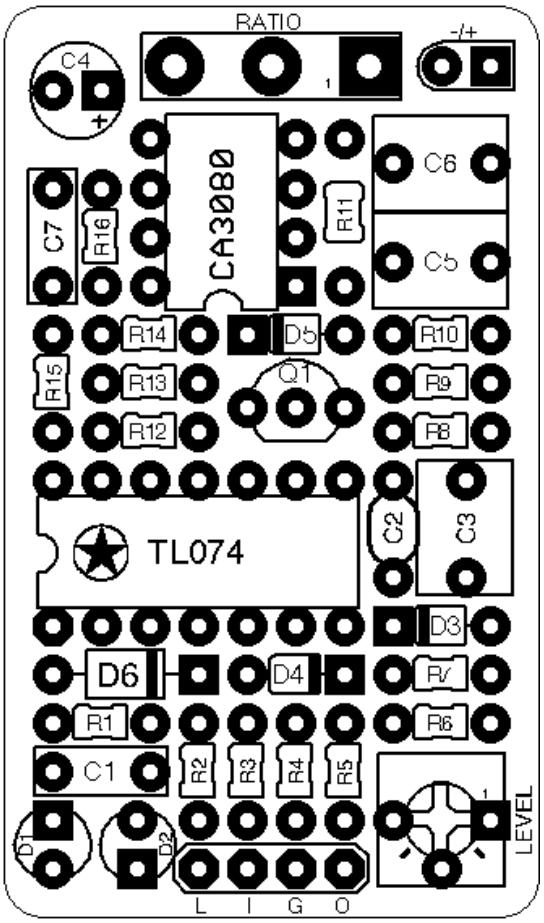
JMK PCBS PRESENTS...

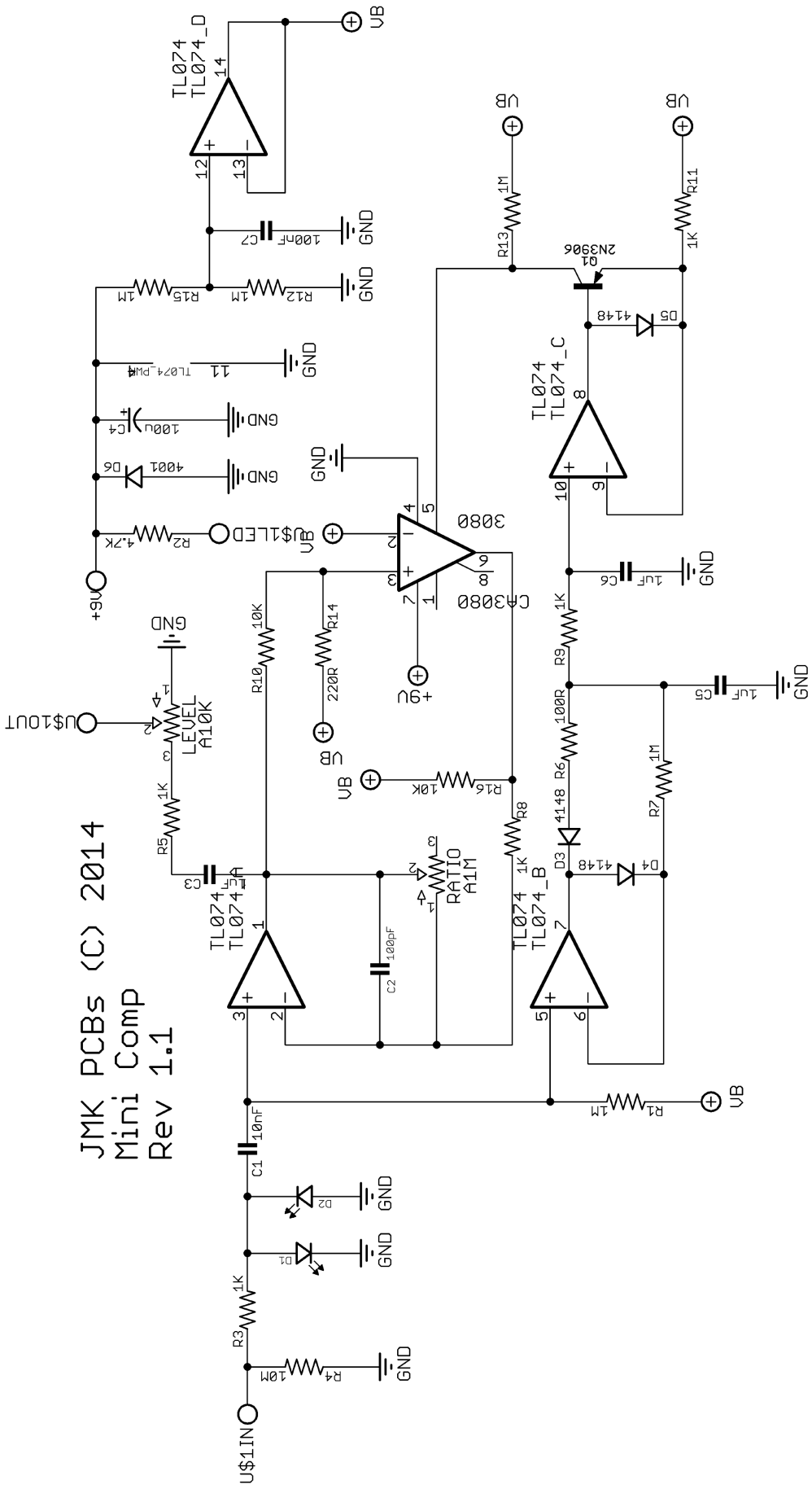
MINI COMP

PCB AND SCHEMATIC ARTWORK (C) 2015 JMK PEDALS

VERSION 1.1: 1/2/2015



Resistors				Capacitors		Diodes		Semiconductors	
R1	1M	R9	1K	C1	10n	D1	LED	IC1	TL074
R2	4.7K	R10	10K	C2	100p	D2	LED	IC2	CA3080
R3	1K	R11	1K	C3	1u	D3	1n4148	Q1	2N3906
R4	10M	R12	1M	C4	100u	D4	1n4148	Potentiometer	
R5	1K	R13	1M	C5	1u	D5	1n4148	RATIO	A1M
R6	100R	R14	220R	C6	1u	D6	1n4001	LEVEL	10K
R7	1M	R15	1M	C7	100n				
R8	1K	R16	10K						



Build Notes

• The Mini Comp is a smaller version of the Engineer's Thumb compressor, a wonderful and relatively quiet DIY compressor. It utilizes a smaller footprint and the bare essentials for control over the circuit, as opposed to the deluxe options available in the larger PCBs. This version is perfect for adding to another project as an addition to a multi pedal. It could also be built as a small pedal in any number of enclosures available from various suppliers.

• The Mini Comp was first made available as the "Christmas 2014" PCB from JMK PCBs. If you have a copy, you either got it as an addition to your December 2014 order from JMK (thank you very much for your patronage) or you've purchased the PCB starting in January of 2015. This PCB is a limited run offering, and will not be made available again in the future.

• A big key to the Mini Comp is the small size of the PCB. The 16 resistors used feature a 5mm spacing instead of the more common 7.5mm spacing, so you should aim to use 1/8 watt resistors instead of 1/4 watt resistors that are common for DIY builds, though certainly a builder could use 1/4 watt resistors if they choose to in a standing format. 1/8 Watt resistors are available at Mouser, and we suggest searching for Xicon's 270 (Metal Film) or 299 (Carbon Film) series resistors.

• 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

• Some ICs used in this project are important (CA3080 is the only IC useable for IC2). However, there are options for IC1 and Q1 that you could try. Keep in mind that the pinout of the IC needs to be considered when installing, but otherwise, every single op amp IC you can think of is an option here.. **We highly recommend socketing your Semiconductors!** This allows you to replace broken or faulty parts, as well as swap for alternative options.

True Bypass Wiring Diagram