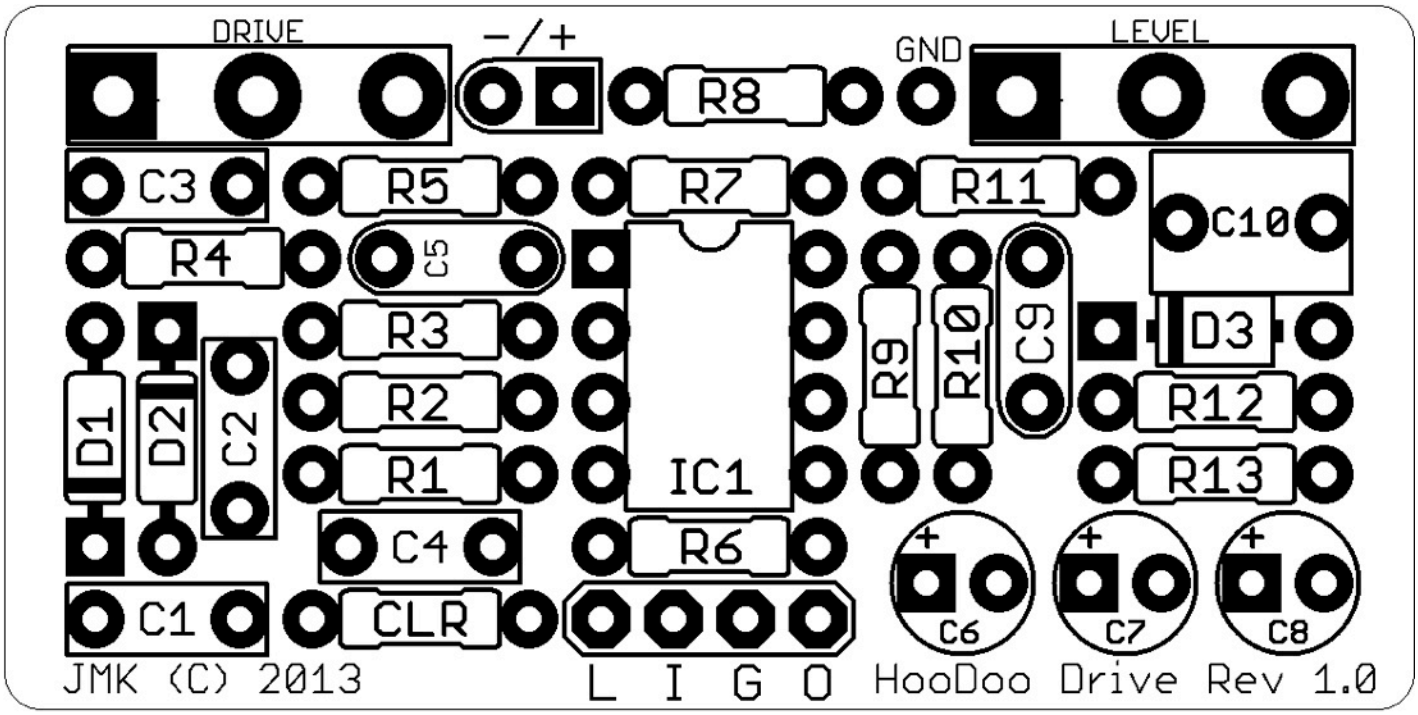
JMK PCBS PRESENTS...

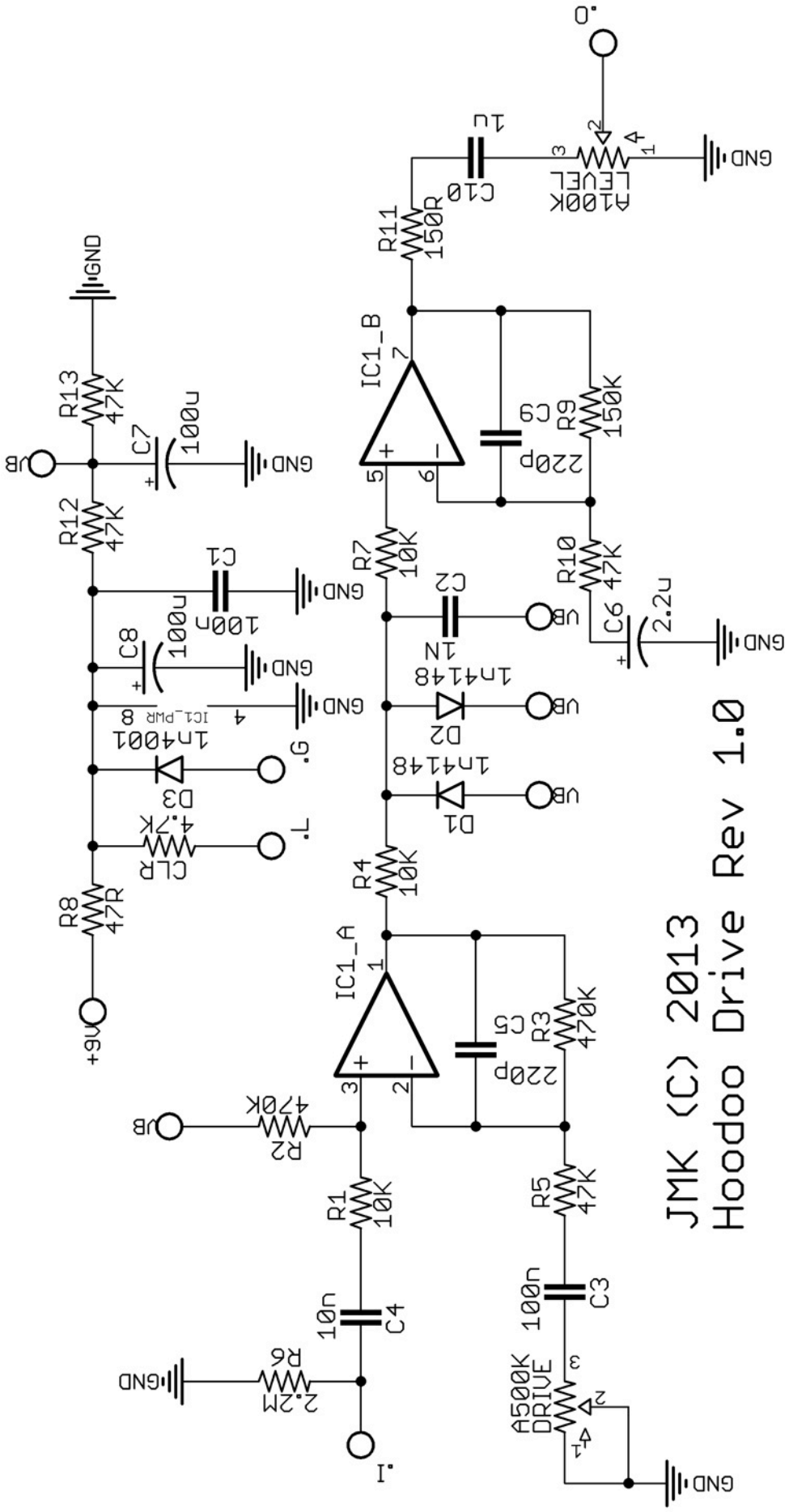
HOODOO DRIVE

PCB AND SCHEMATIC ARTWORK (C) 2013 JMK PEDALS

VERSION 1.0: 6/10/2013



Resistors				Capactitors				Semiconductors	
R1	10K	R8	47R	C1	100n	C6	2.2u*	IC1	JRC4558
R2	470K	R9	150K	C2	1n	C7	100u*	Diodes	
R3	470K	R10	47K	C3	100n	C8	100u*	D1, D2	1n4148
R4	10K	R11	150R	C4	10n	C9	220p	D3	1N4001
R5	47K	R12	47K	C5	220p	C10	1u	Potentiometer	
R6	2.2M	R13	47K					DRIVE	A500K
R7	10K	CLR	4.7K					LEVEL	A100K



Build Notes

• The Hoodoo Drive is about as simple an overdrive as you could build! Carrying many similarities to the classic dual op amp overdrives, the Hoodoo's lineage hails from the Voodoo Lab Overdrive pedal. This overdrive gets rid of the tone knob and goes for straight out drive using a pair of diodes shunted to ground between two gain stages.

• This is one of the best sounding **low gain** overdrives we've ever heard. If you like high gain pedals, this may not be the pedal for you. It can be modified for higher gain however, and if that's something desirable for you, play with the values of the drive pot as well as R3 and R5.

• 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; GND = Extra Ground for 1/4" Jack

• Like with most overdrives, the IC and Diodes are integral to the tone output. Pretty much any dual op amp can be used, and pretty much any diodes can be used. Keep in mind that the pinout of the IC needs to be considered when installing. **We highly recommend socketing your IC!** Socketing allows you to switch your IC easily if you have it installed incorrectly and also allows you to swap out and try other ICs to see which you like the best. Options to try include, but is not limited to: JRC4580, JRC 4559, LM1458, LF353, TLC2272, OPA2134, OP275, TL062, TL072, TL082 and NE5532.

• Please note - this is one of the first overdrives that JMK PCBs has released that is actually meant for a 1590B enclosure! Along with some of our other PCBs, we are trying to make boards that aren't designed for 125Bs alone, so if you're looking for a good 1590B size dual op amp OD, try this one!

True Bypass Wiring Diagram