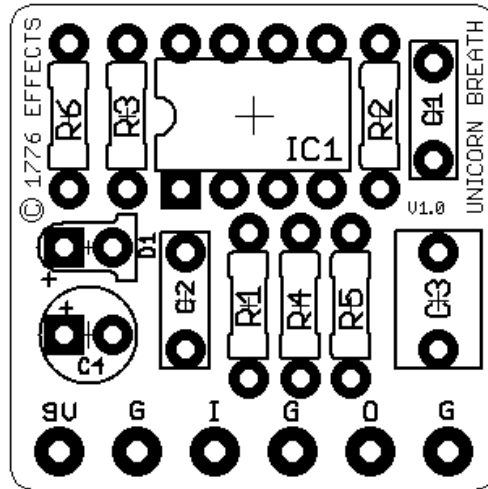


UNICORN BREATH BUFFER

Modified “Centaur” Buffer

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The “Unicorn Breath” buffer is based of the famous pedal that rhymes with thon. A few modifications in my design include a buffered bias voltage and the use of a particular dual opamp, the OP275. This opamp was chosen for it’s exceptional transparency, although other dual opamps can be used with good result.

COMPONENTS

Resistors		Capacitors		IC	
R1	100k	C1	100nF	IC1	OP275
R2	100k	C2	100nF	Misc	
R3	1M	C3	1uF (film)	D1	LED
R4	100k	C4	47uF		
R5	560R	C5			
R6	1K				

NOTES

R6 and D1 are for LED indication that the pedal is powered since a buffer is usually used as an always on effect. They can be omitted if you choose to do so.

While I recommend the OP275 other dual opamps can be used such as the TL072, JRC4558, etc.

Extra ground pads are included so you can wire your in and out jacks directly to the PCB if you are choosing not to bypass the effect via a switch.

SCHEMATIC

