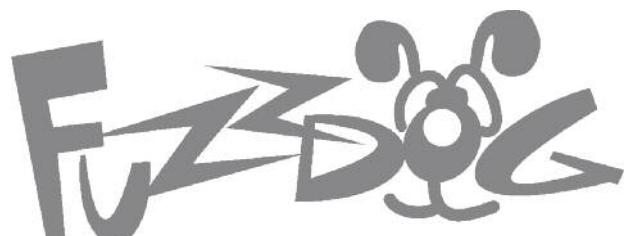
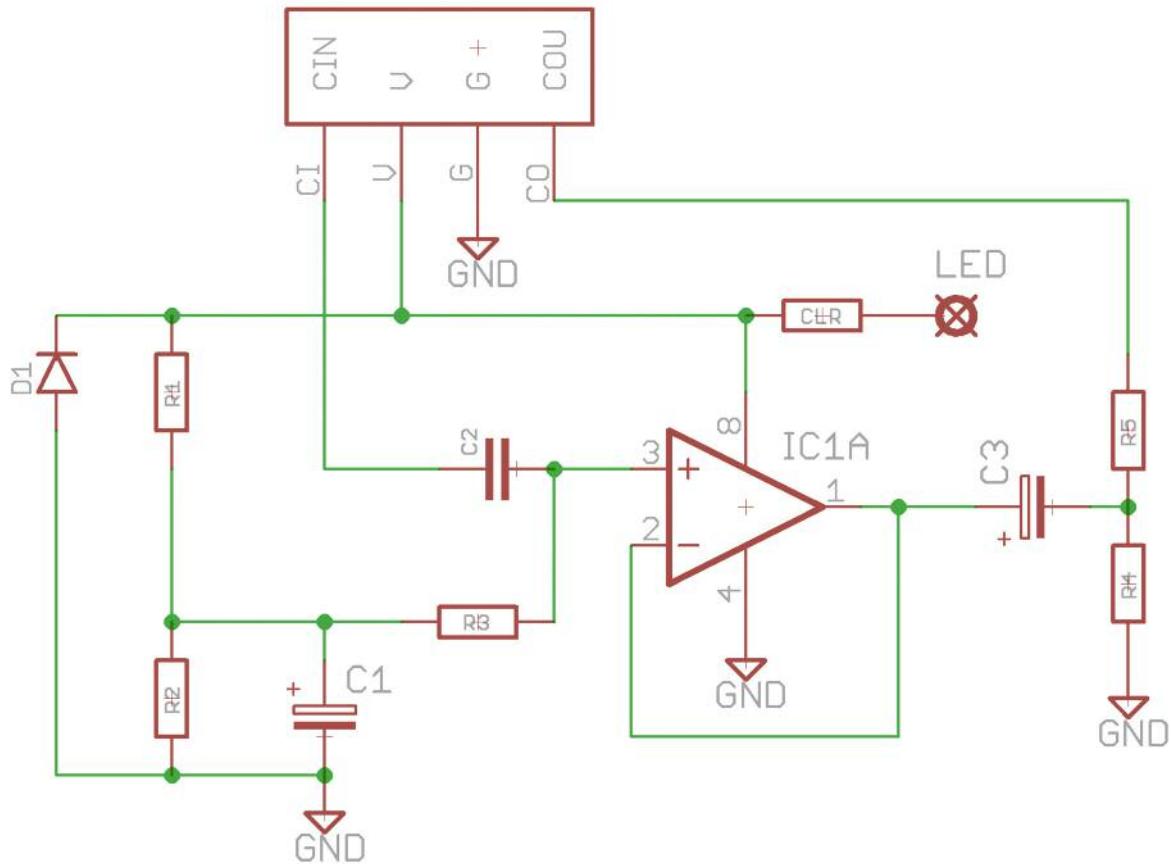


Klon Buffer v3

Invigorate your signal



Schematic



What's it going to do?

BOM

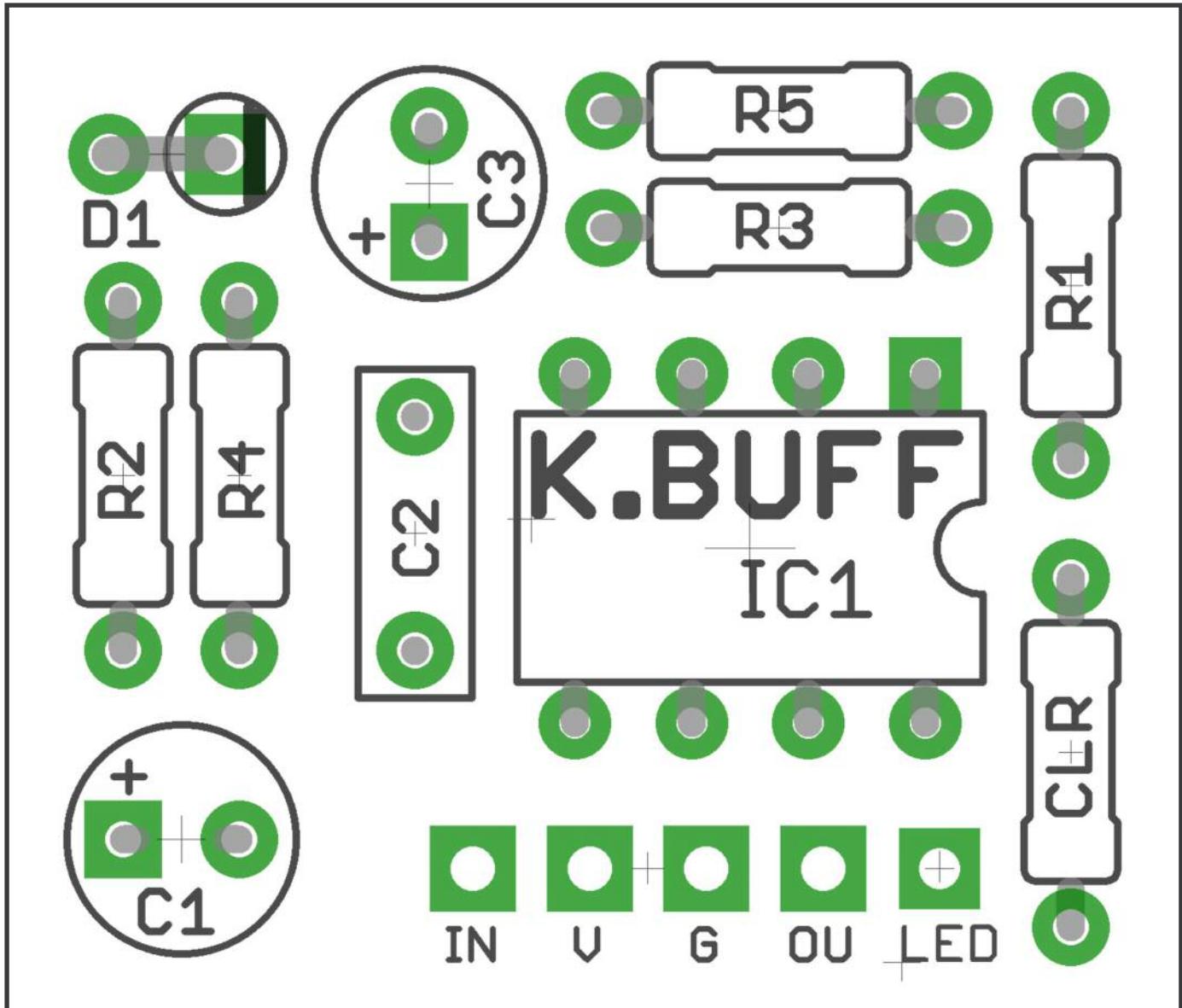
R1,2	100K
R3	1M
R4	100k
R5	560R
CLR	2K2
C1	47u
C2	100n
C3	1u
IC	TL072
D1	1N4001

It'll retain your signal's top end despite your lengthy cable run (and unseen extra length and obstacles caused by true-bypass in your pedals).

How?

Through some mighty clever jiggery-pokery concerning input impedance which makes the guitar pickups work the way they were designed to, rather than how your home-made Fuzz Face is trying to make them.

Basically it'll make your signal as lovely as it would be if you plugged straight into your amp.



Very simple build, and switch-free. Basically it should sit at the very start of the signal chain on your pedal board, and remain on all the time. There's no reason to switch it on or off, or to bypass it.

If you do want to do either of the above, just wire it up with your own preferred switch. It won't do any harm.

This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal.

If you don't want to have the LED, just omit CLR and don't connect the LED at all.

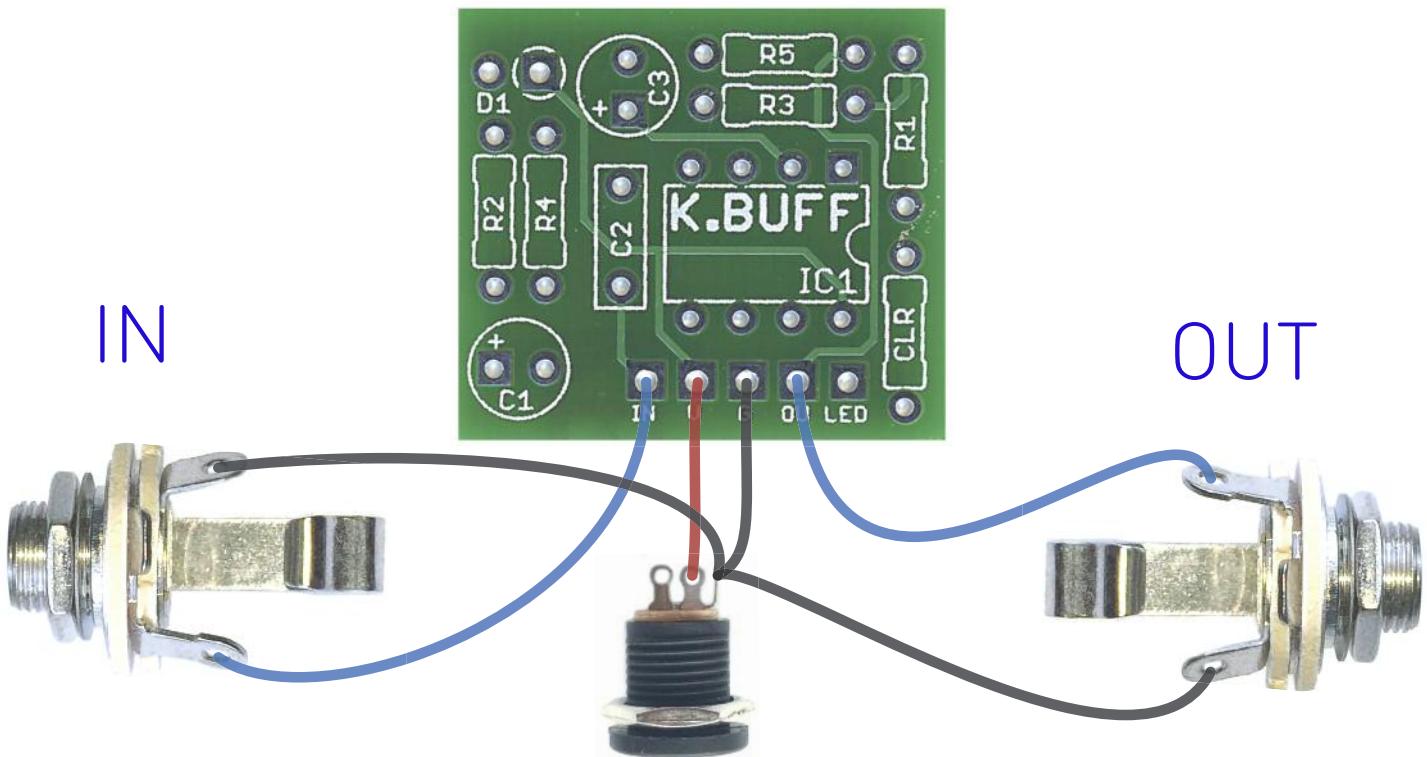
The kit comes with a socket for the IC, though the chip is shown soldered straight to the board on the cover image.

Long (anode) legs of the electrolytic caps go into the square pads.

Striped (cathode) leg of D1 goes into the square pad.

To save some height you can bend C1 over the top of R2,4 as shown on the cover image.

Wire it up



All the grounds must connect together somehow (both jacks, DC socket, PCB, LED). They don't all have to connect to a single point - they can be daisy chained. For instance, looking at the diagram above, the ground lug of the IN jack could connect to the ground lug of the OUT jack rather than the DC socket. It'd still be connected to ground via the OUT jack ground connection.

The long (+) leg of the LED should connect to the LED pad on the PCB. The short (-) leg connects to any ground point.