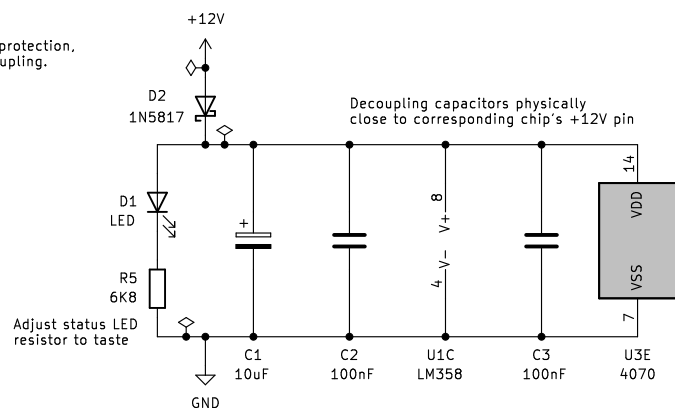


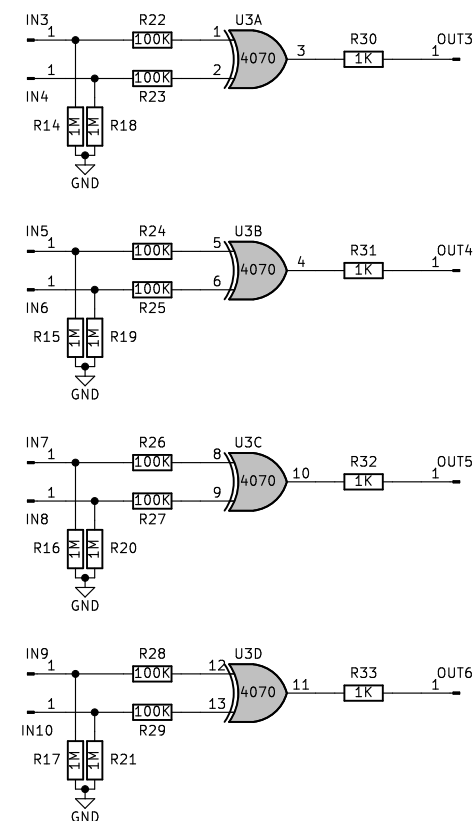
Reverse voltage protection,
status LED, decoupling.

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status LED, decoupling.



Physically arrange header pins "110110110110"
where 1 = input and 0 = Output, color-coding ea

Physically arrange header pins "110110110110" where 1 = input and 0 = Output, color-coding each group, so performer can use jumpers to daisy chain XOR channels.

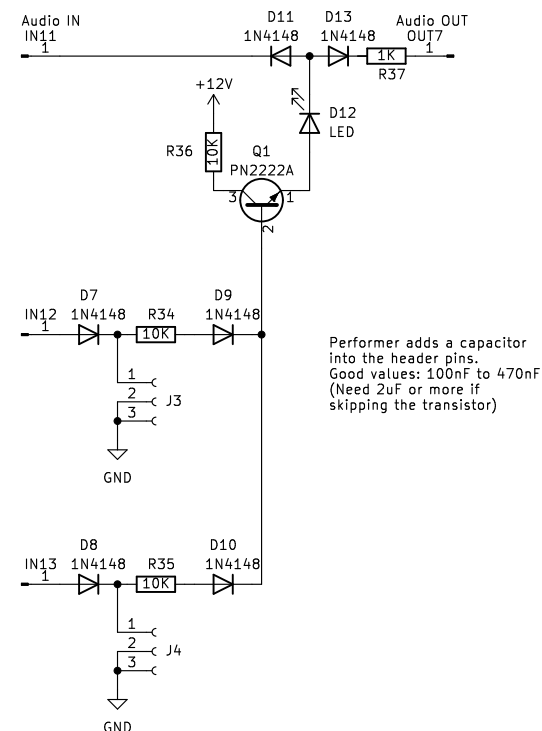


Using diodes or a transistor on the output doesn't work. I dunno why.

Derivative of Elliot Williams' Logic Noise series.
 Dirty way to go about it that sounds good in a dirty way

Derivative of Elliot Williams' Logic Noise series.
Dirty way to go about it that sounds good in a dirty way.
I dunno why it works. Has not exploded yet.

<https://hackaday.com/2015/04/10/logic-noise-more-cmos-cowbell/>

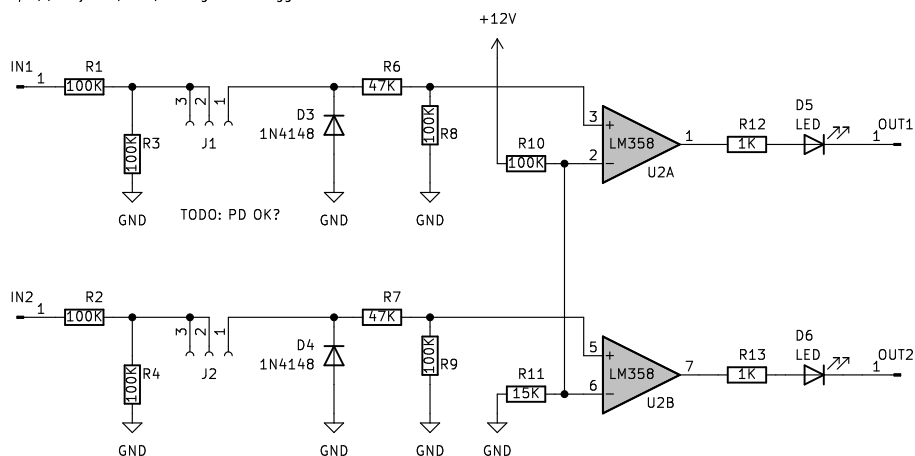


Performer adds a capacitor into the header pins.
Good values: 100nF to 470nF
(Need 2uF or more if skipping the transistor)

Based on Ken Stone's CGS24 & similar circuits.
Values taken from original circuit, they work at

Based on Ken Stone's CGS24 & similar circuits.
Values taken from original circuit, they work at 12V (original uses 15V)
https://sdiy.info/wiki/CGS_gate_to_trigger_converter

https://sdiy.info/wiki/CGS_gate_to_trigger_converter



Performer adds a capacitor into the header pins.
Good values: 10nF to 220nF.
Bigger capacitance = longer trigger.
For better contact, use female headers with rounded holes like this:



Got it to work on the breadboard
but not on my perma-proto,
probably a build error

Meant for my custom protoboard Rev 1.

I tried to also make the Twin-T filter described in the Logic Noise series but that circuit gave me a ton of trouble I had no clue how to diagnose. Built it a few times on breadboard with different results every time.

Aria Salvatrice

Sheet:

File: Percussions.kicad_sch

Title: Percussions Board [WIP]

Size: A4

Date: 2022-09-26

Size: A1	Date: 2022-09-28
KiCad E.D.A. kicad (6.99.0-3702-g39089ad805)	

Rev: 1E

Id: 1/1