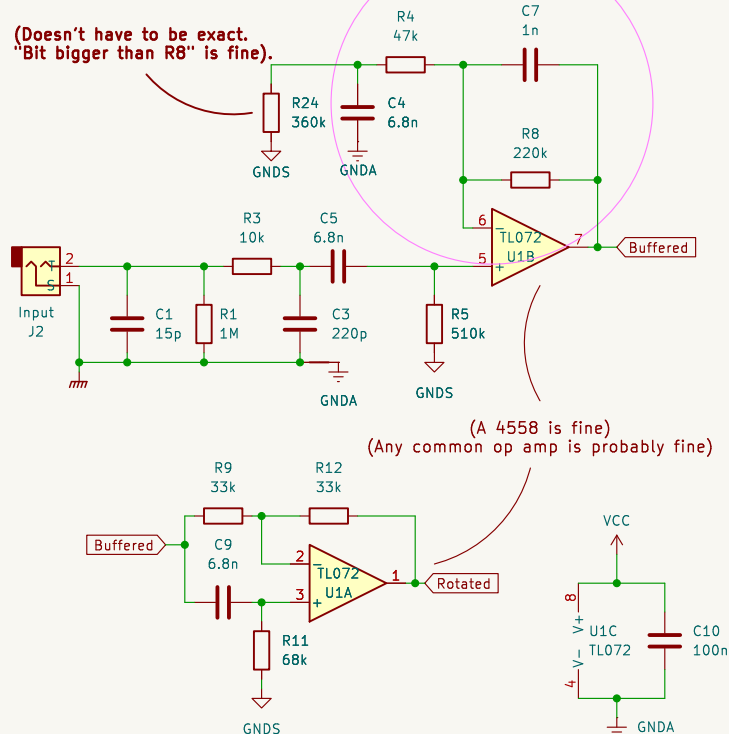


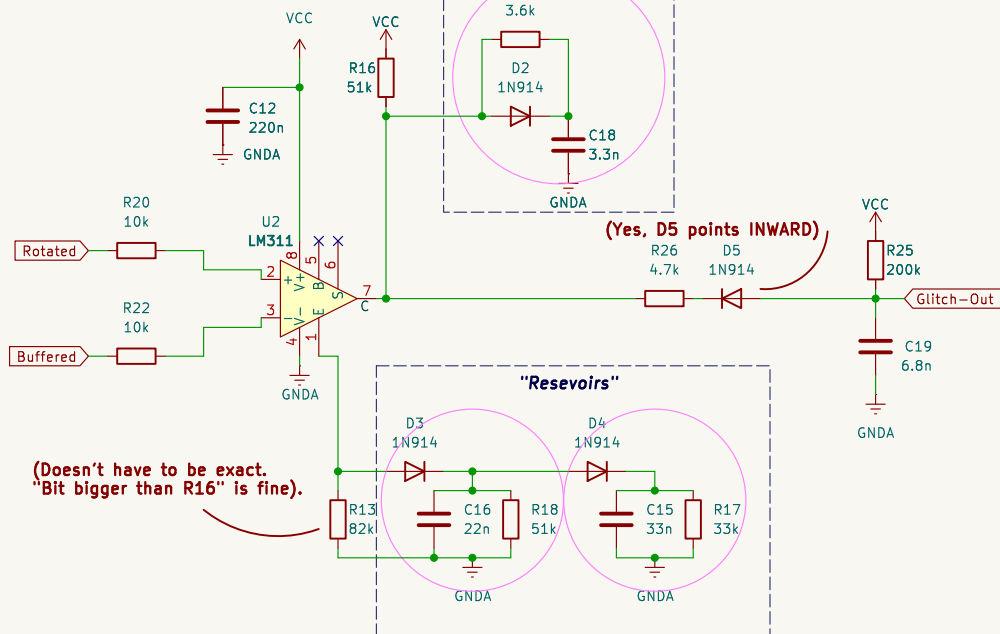
## 1. Input + Phase Rotation

(Doesn't have to be exact.  
"Bit bigger than R8" is fine).



(A 4558 is fine)  
(Any common op amp is probably fine)

## 2. Glitchy Goodness



(Doesn't have to be exact.  
"Bit bigger than R16" is fine).

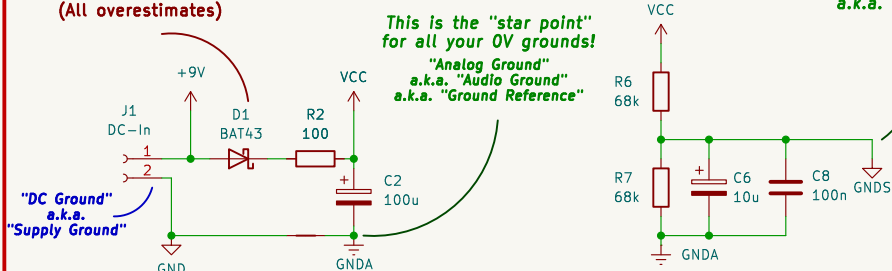
(Yes, D5 points INWARD)

## 0. Power + VRef

Or any Schottky.  
Or any Diode at all that is rated for:

- \* 180mA+ repetitive forward current
- \* 80mA+ continuous forward current
- \* rated for 500mW
- \* 24V continuous reverse voltage

(All overestimates)



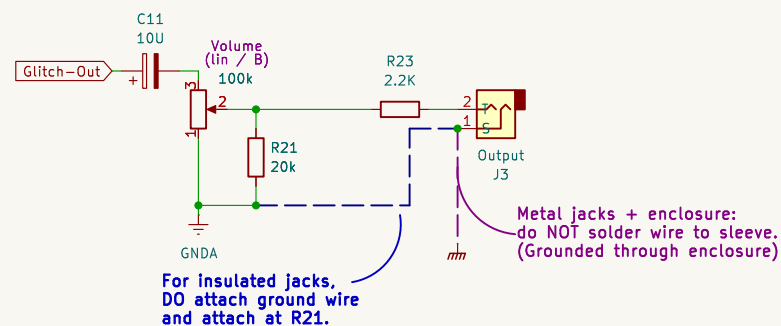
This is the "star point"  
for all your 4.5 refs!

"Signal Ground"  
a.k.a. "VRef"

This is the "star point"  
for all your 0V grounds!

"Analog Ground"  
a.k.a. "Audio Ground"  
a.k.a. "Ground Reference"

## 3. Passive Volume + Out



For insulated jacks,  
DO attach ground wire  
and attach at R21.

< 0.0.2: THE OPAMPS WERE UPSIDE DOWN!!!

Andrew T. Canaday (povins), D.B. Buchholz (QuickButterfly\_4571)

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