

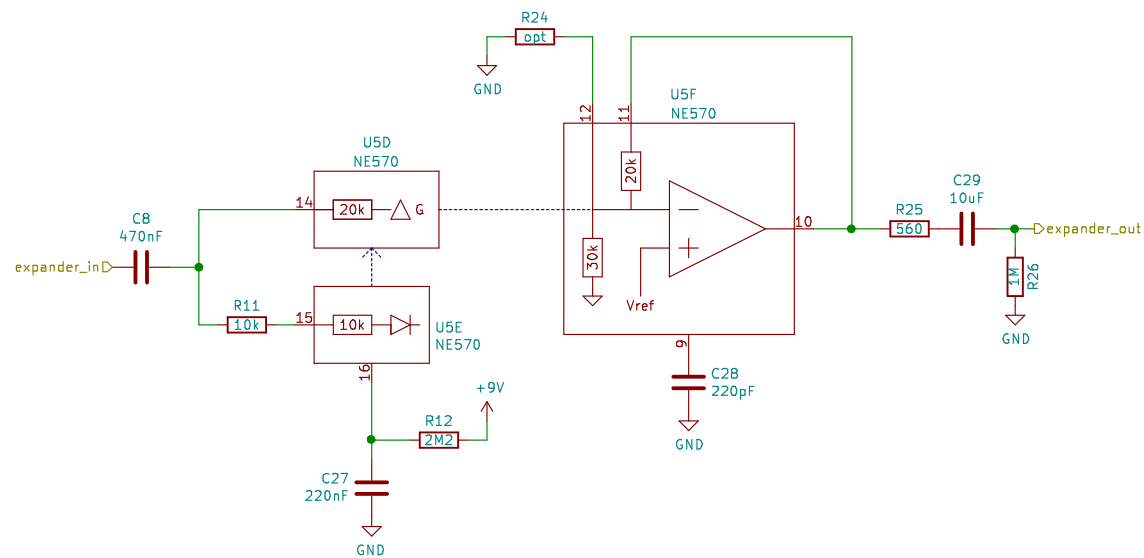
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Sheet: /
File: bit_crusher_pedal.sch

Title: Bit Crusher Pedal

Size: A4
Date: 2020-08-16
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 1
Id: 1/8



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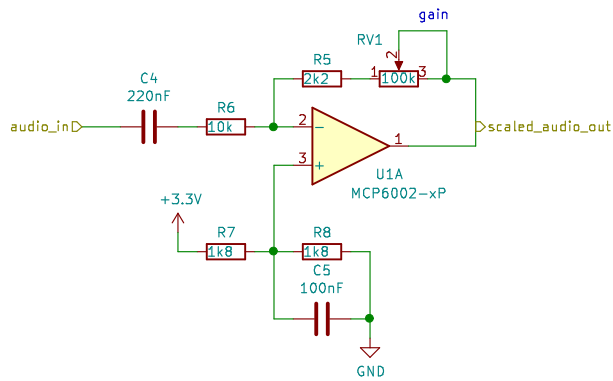
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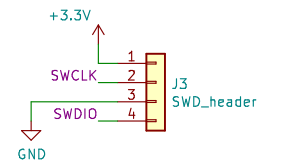
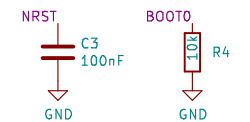
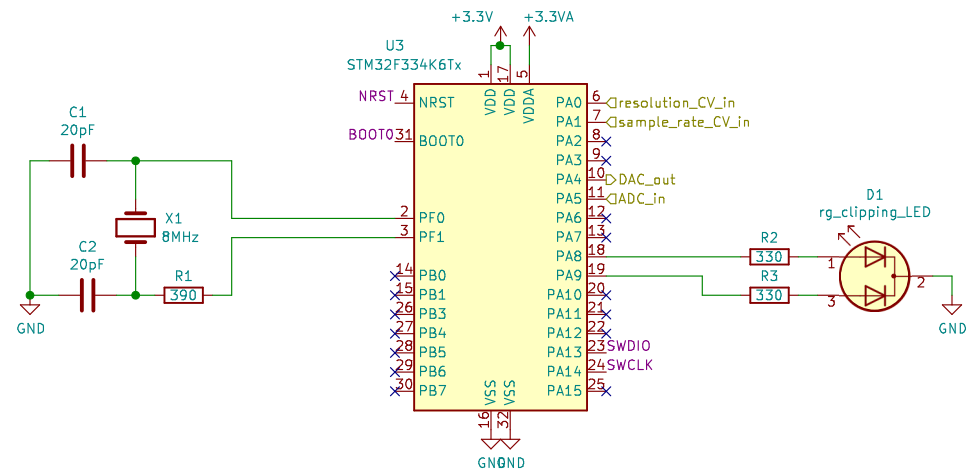
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 File: variable_gain_amp.sch

Title: Bit Crusher Pedal

Size: A4 Date: 2020-08-16
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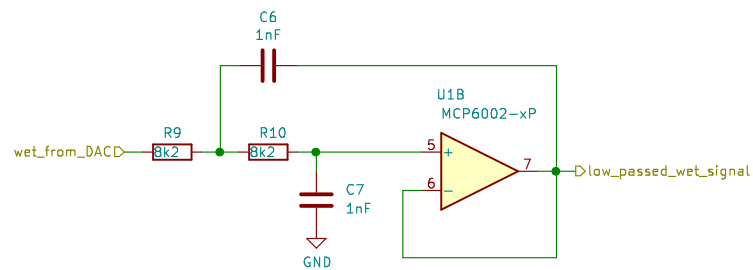
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20kHz Low-pass filter



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Sheet: /low_pass_filter/
File: low_pass_filter.sch

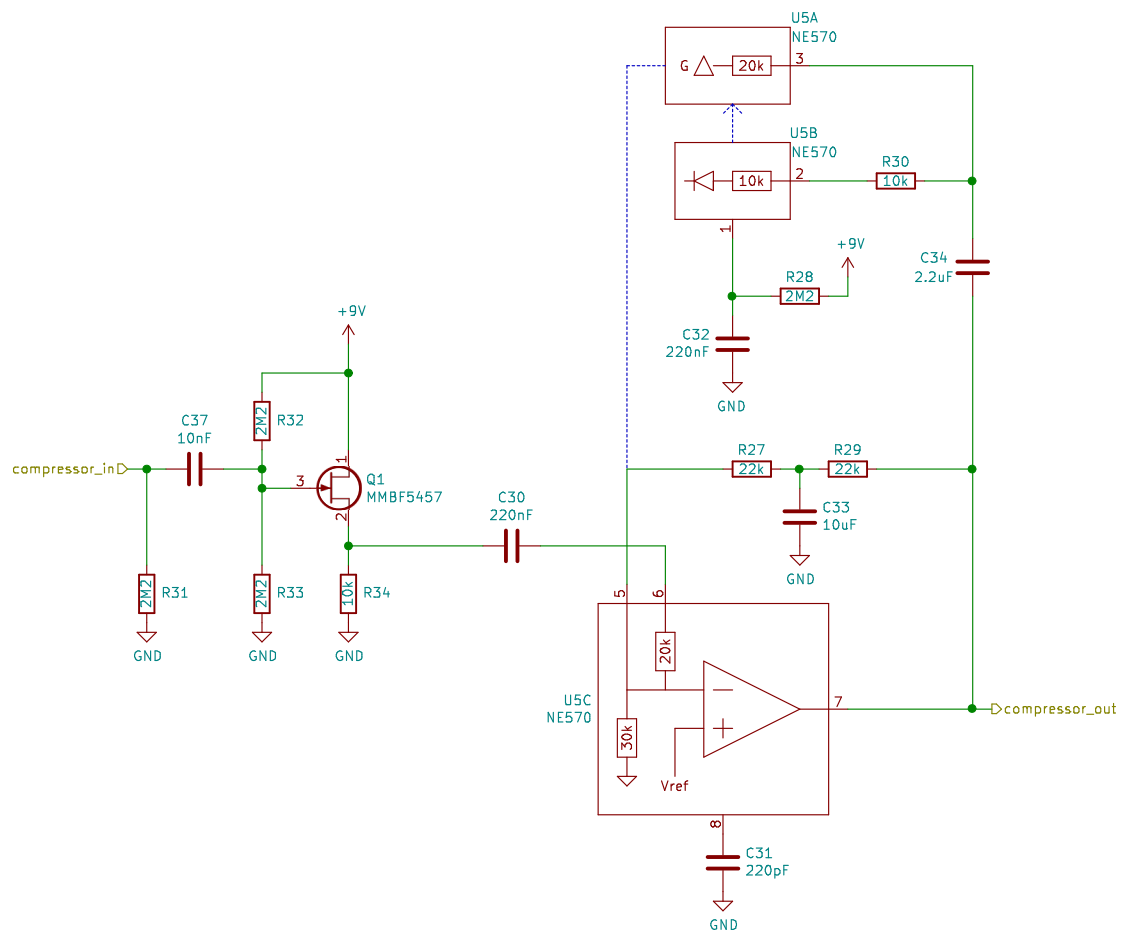
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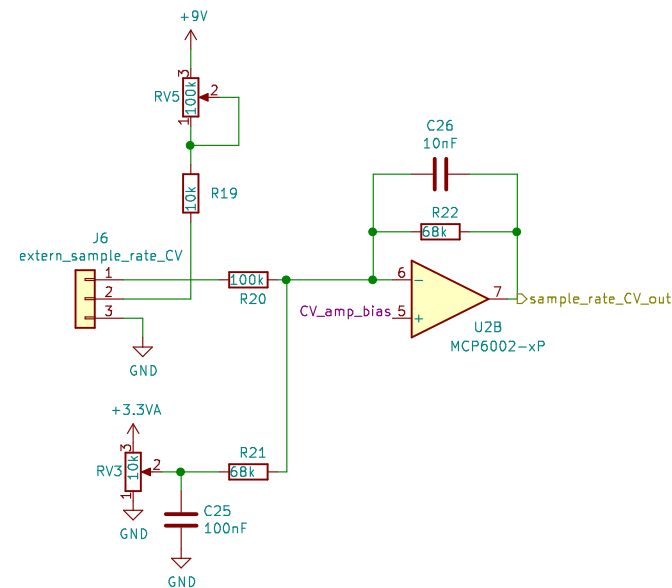
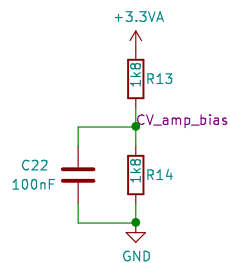
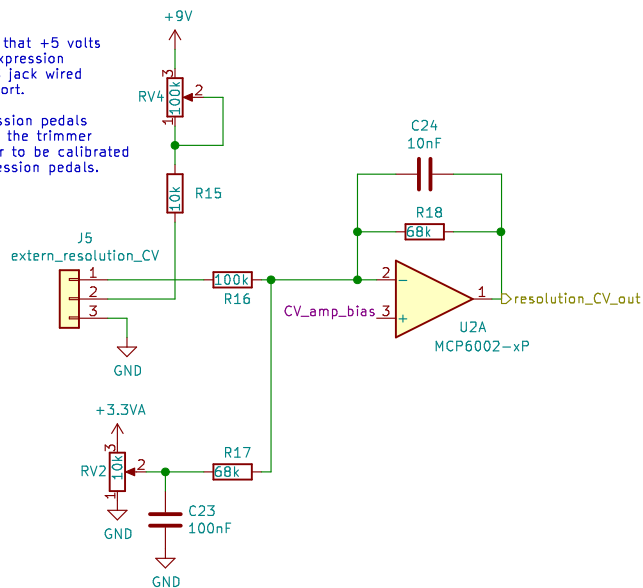
Title: Bit Crusher Pedal

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Calibrate the trimpots so that +5 volts is developed across an expression pedal connected to a TRS jack wired to the associated CV in port.

Different brands of expression pedals have different value pots, the trimmer allows for the bit-crusher to be calibrated for various common expression pedals.



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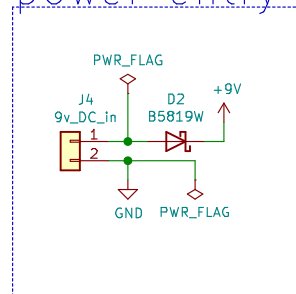
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File: control_voltage_generator.sch

Title: Bit Crusher Pedal

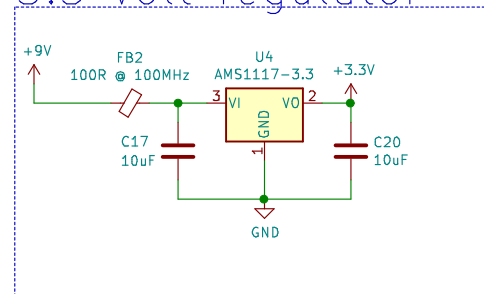
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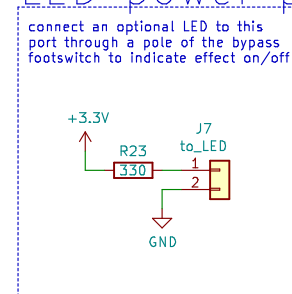
power entry



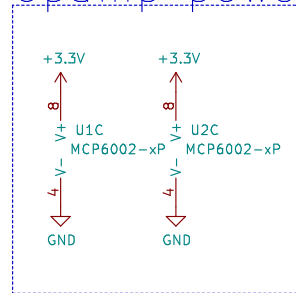
3.3 volt regulator



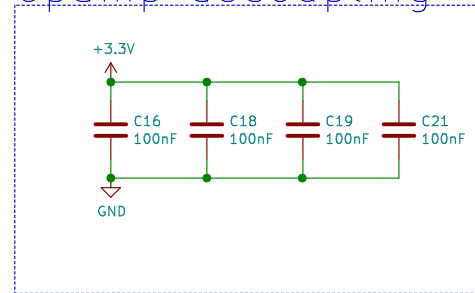
LED power port



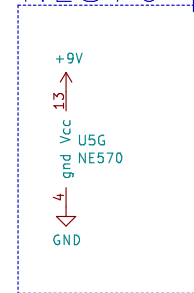
opamp power



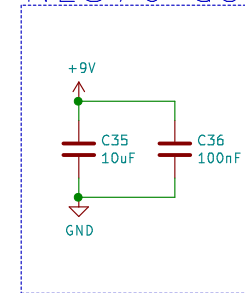
opamp decoupling



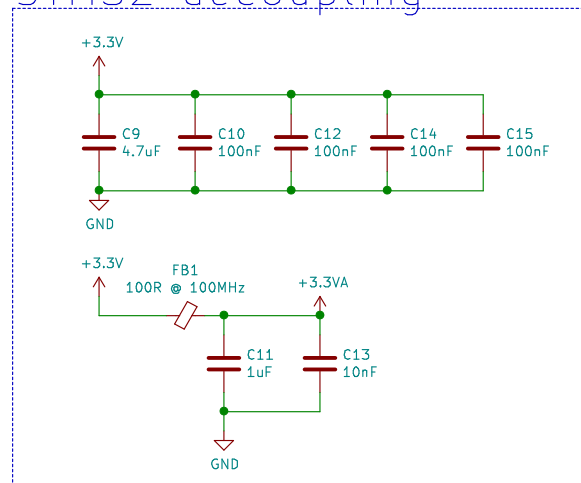
NE570 power



NE570 decoupling



STM32 decoupling



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