

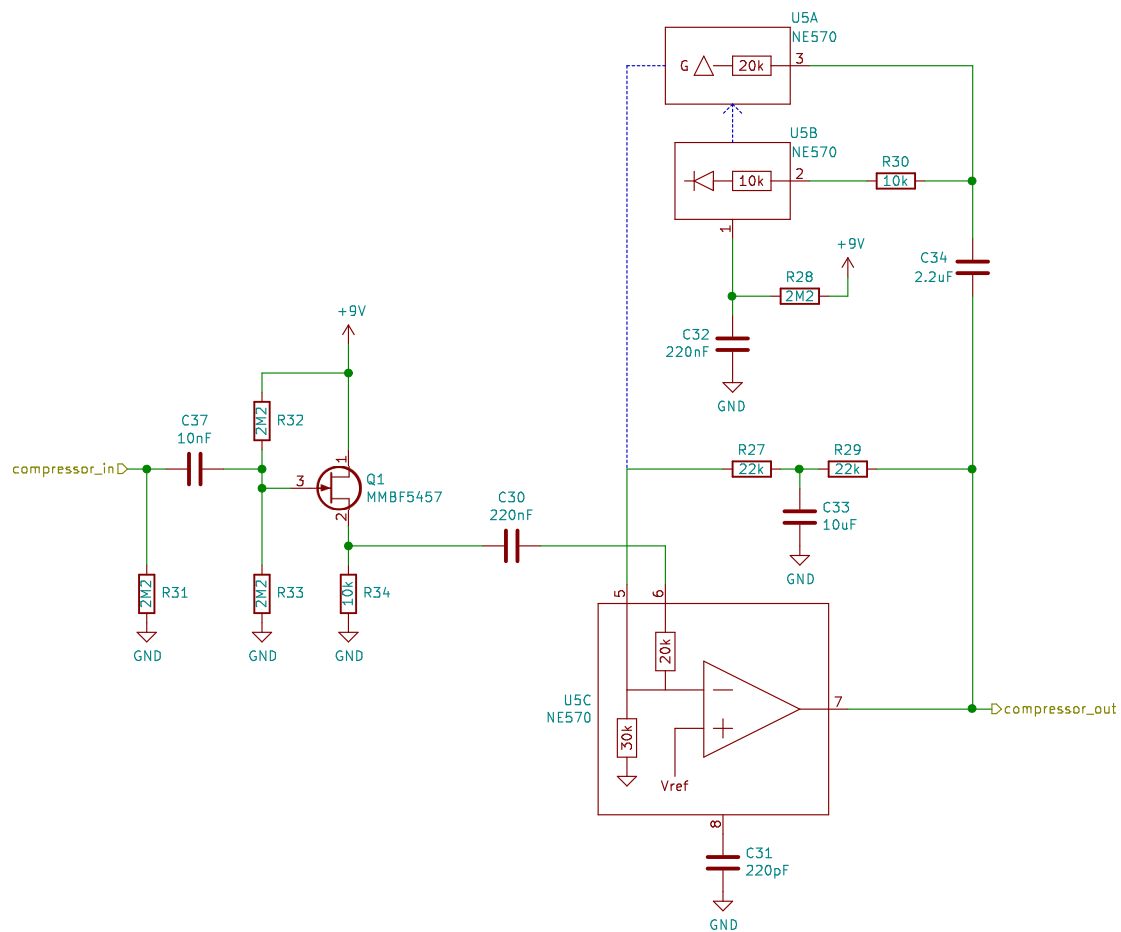
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Sheet: /
 File: bit_crusher_pedal.sch

Title: Bit Crusher Pedal

Size: A4 Date: 2020-08-16
 KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 1
 Id: 1/8



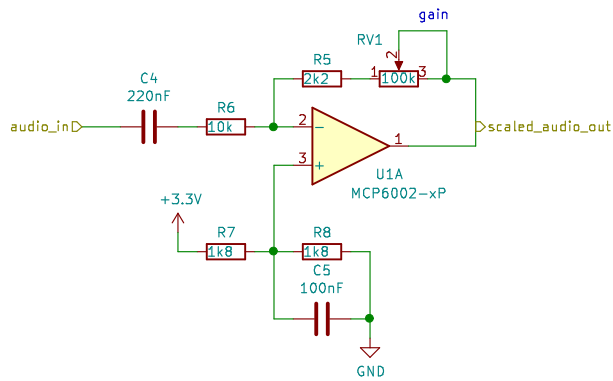
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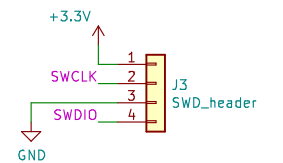
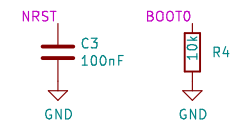
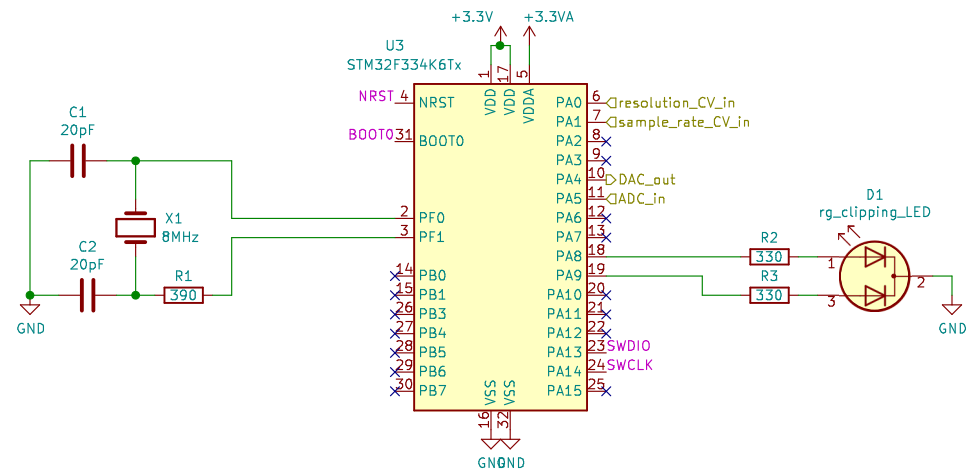
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 File: variable_gain_amp.sch

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Sheet: /microcontroller/
File: microcontroller.sch

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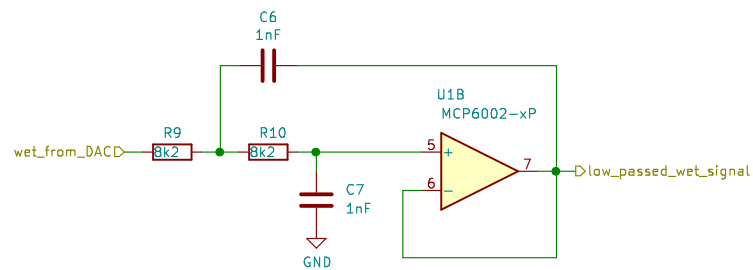
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20kHz Low-pass filter



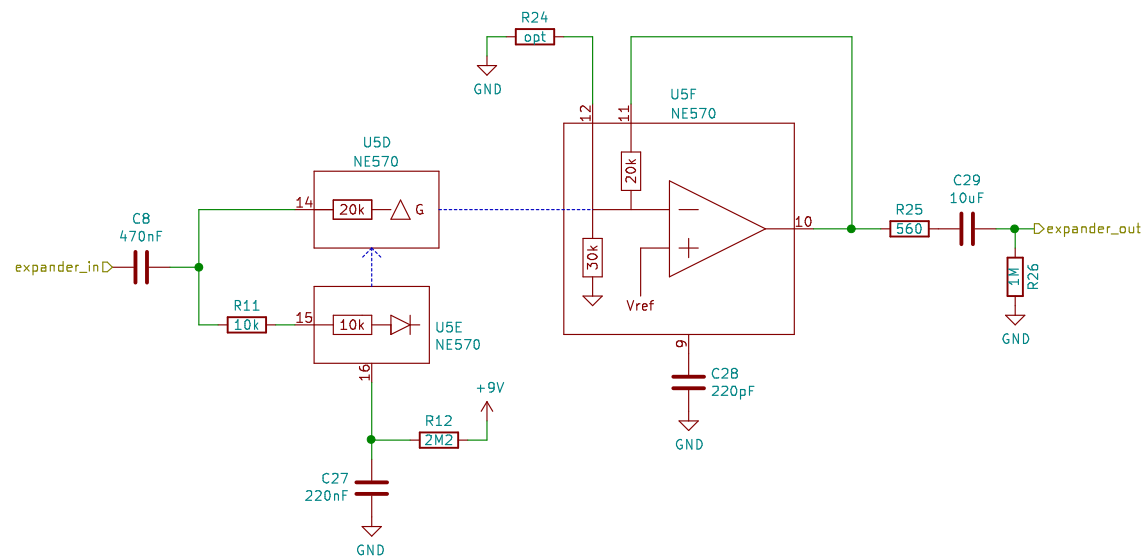
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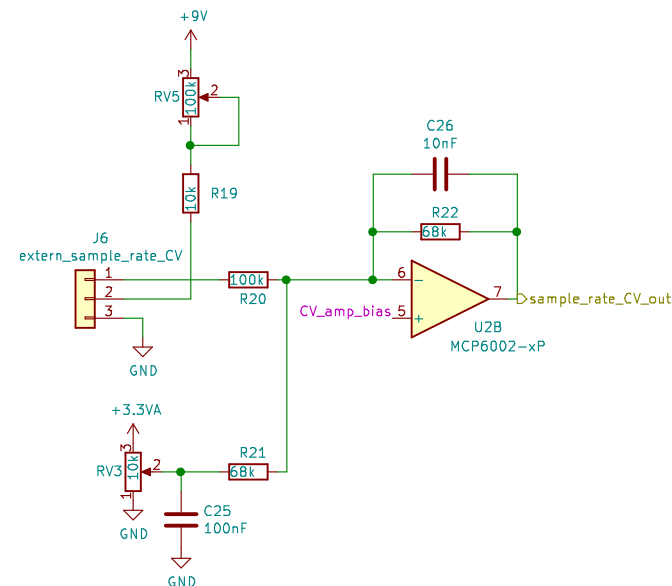
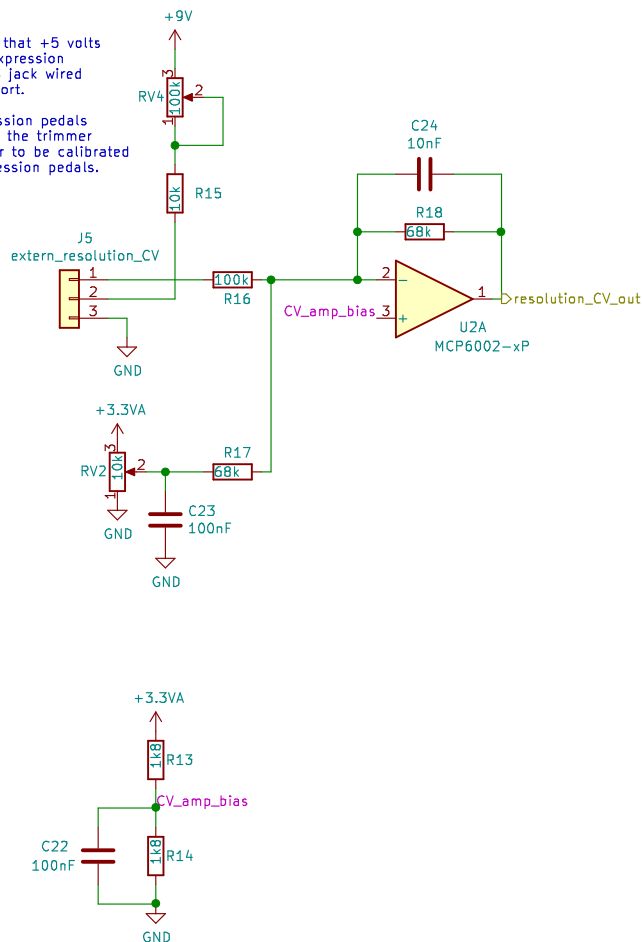
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Calibrate the trimpots so that +5 volts is developed across an expression pedal connected to a TRS jack wired to the associated CV in port.

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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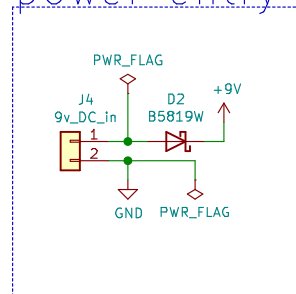
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File: control_voltage_generator.sch

Title: Bit Crusher Pedal

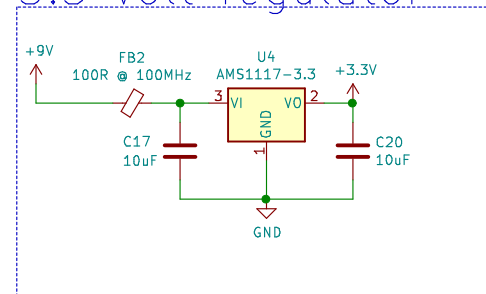
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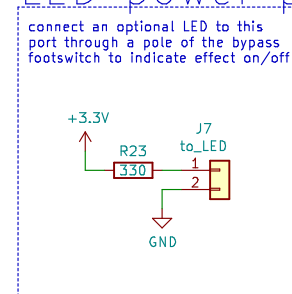
power entry



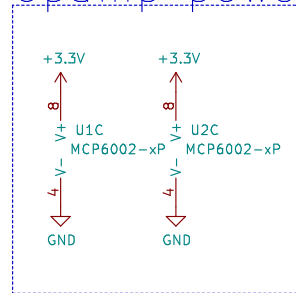
3.3 volt regulator



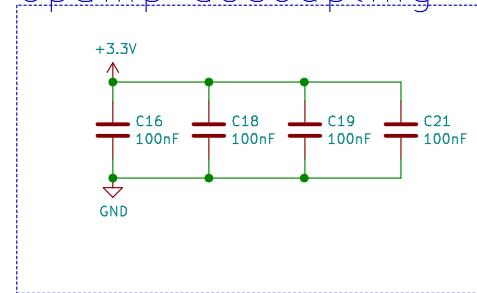
LED power port



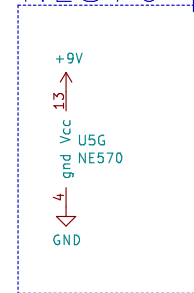
opamp power



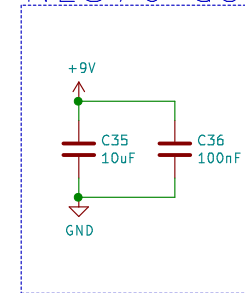
opamp decoupling



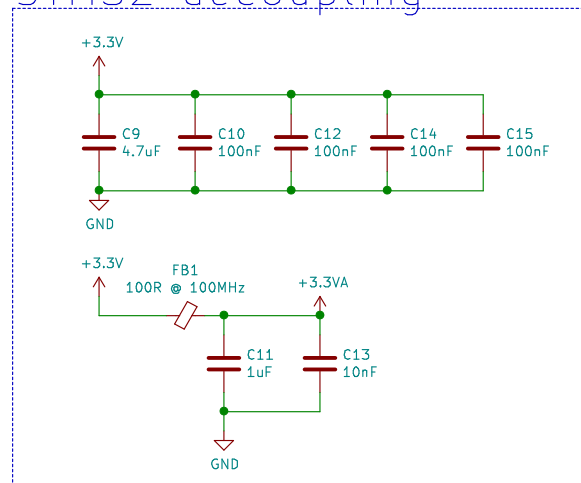
NE570 power



NE570 decoupling



STM32 decoupling



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