

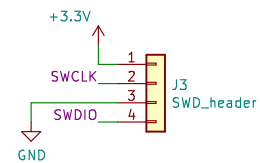
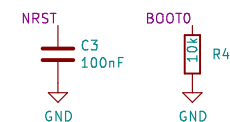
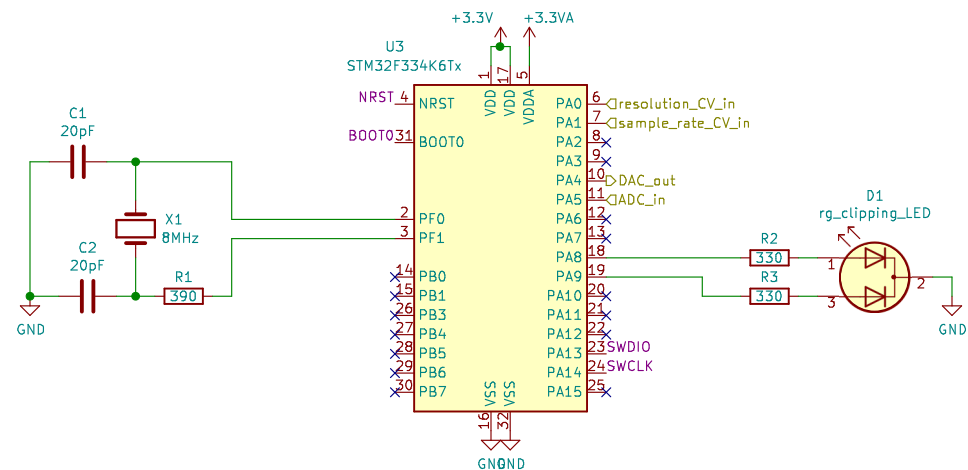
Author: Jordan Aceto
License: CC by 4.0
creativecommons.org/licenses/by/4.0/

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



Author: Jordan Aceto
License: CC by 4.0
creativecommons.org/licenses/by/4.0/

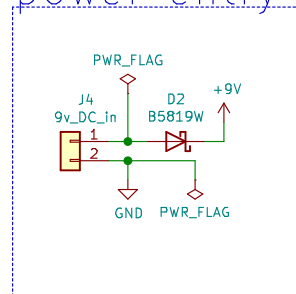
Sheet: /microcontroller/
File: microcontroller.sch

Title: Bit Crusher Pedal

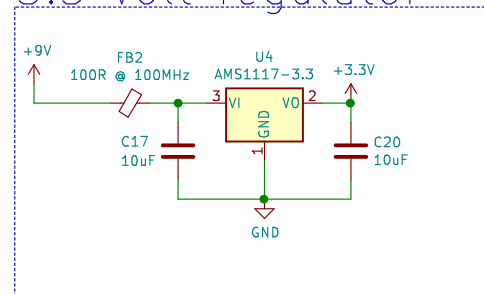
Size: A4 Date: 2020-08-16
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 1
Id: 2/8

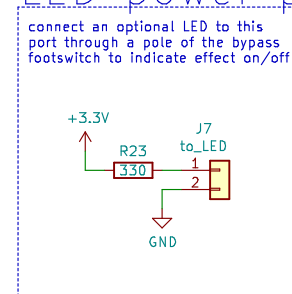
power entry



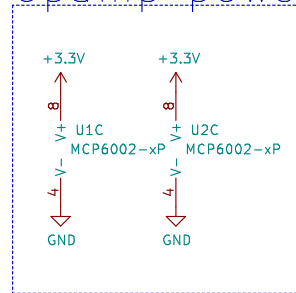
3.3 volt regulator



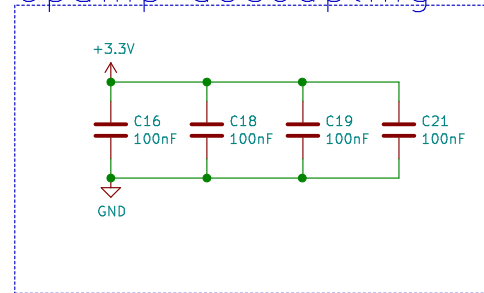
LED power port



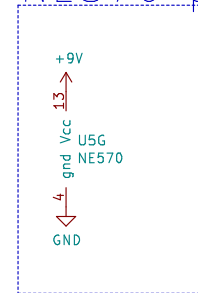
opamp power



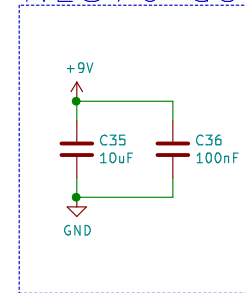
opamp decoupling



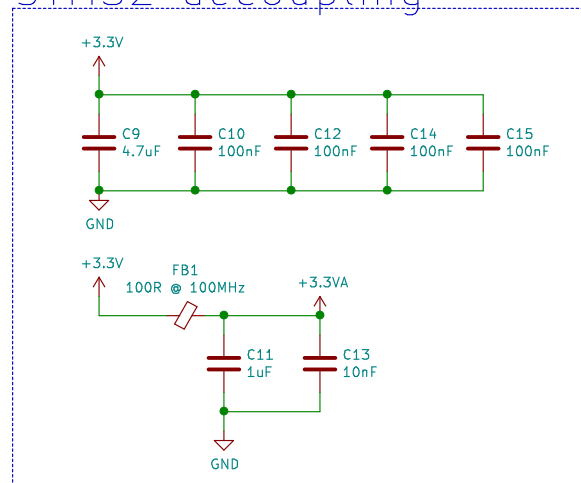
NE570 power



NE570 decoupling



STM32 decoupling



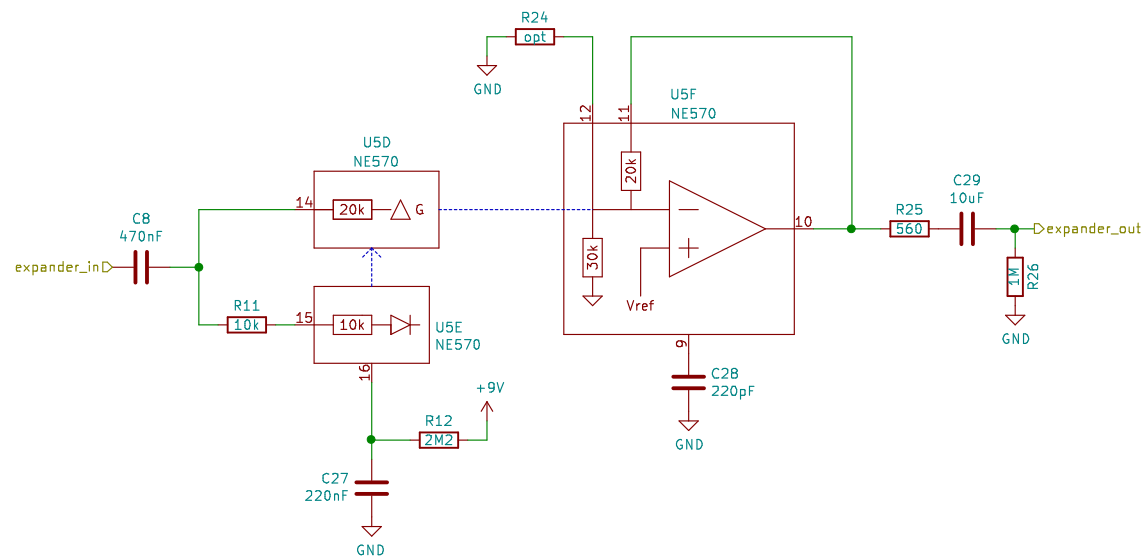
Author: Jordan Aceto
License: CC by 4.0
creativecommons.org/licenses/by/4.0/

Sheet: /power_supply/
File: power_supply.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: 3/8



Author: Jordan Aceto
 License: CC by 4.0
creativecommons.org/licenses/by/4.0/

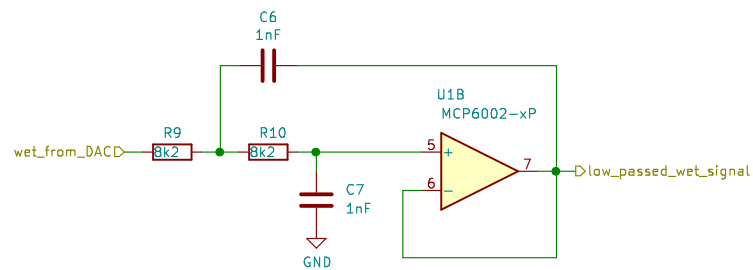
Sheet: /expander/
 File: expander.sch

Title: Bit Crusher Pedal

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

Rev: 1
 Id: 4/8

20kHz Low-pass filter



Author: Jordan Aceto
License: CC by 4.0
creativecommons.org/licenses/by/4.0/

Sheet: /low_pass_filter/
File: low_pass_filter.sch

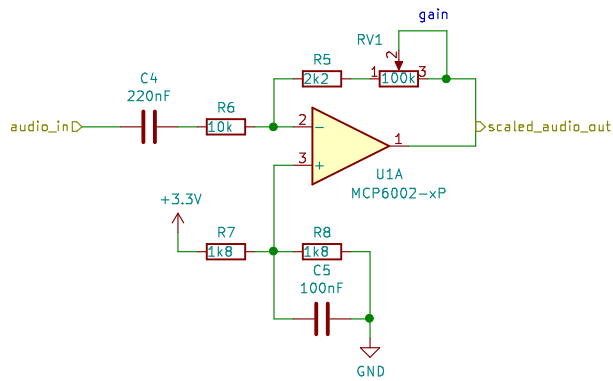
Title: Bit Crusher Pedal

Size: A4
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Date: 2020-08-16

Rev: 1

Id: 5/8



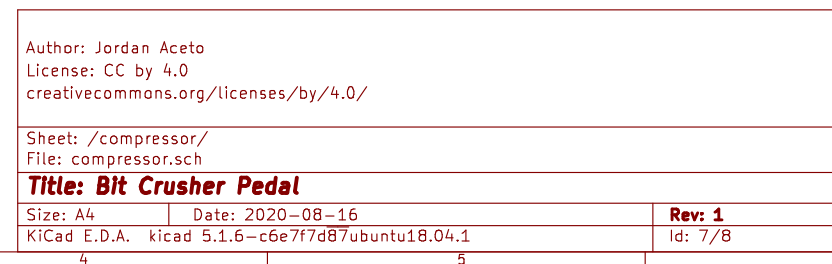
Author: Jordan Aceto
 License: CC by 4.0
creativecommons.org/licenses/by/4.0/

Sheet: /variable_gain_amp/
 File: variable_gain_amp.sch

Title: Bit Crusher Pedal

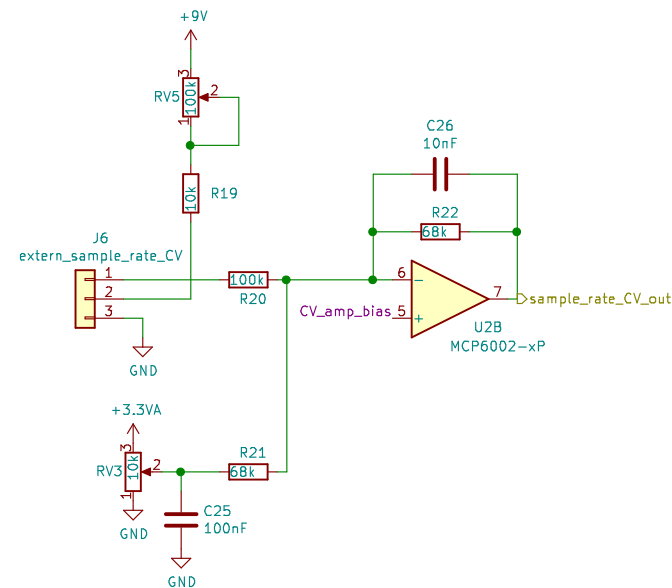
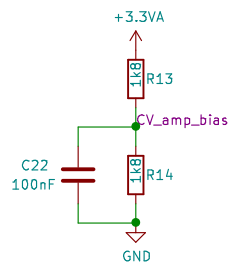
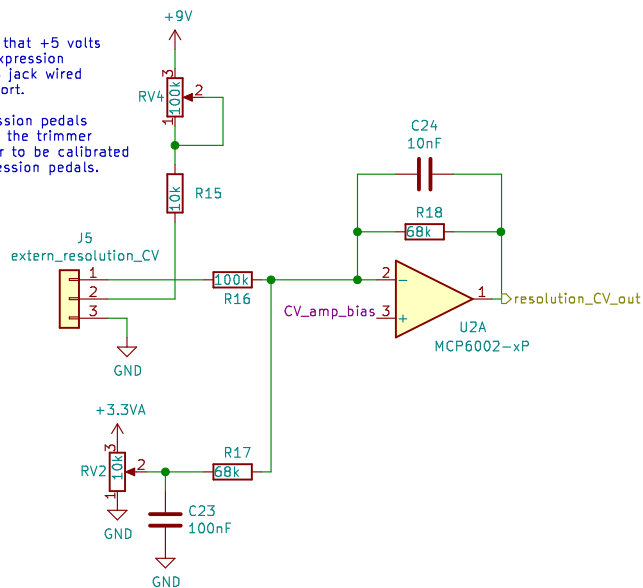
Size: A4 Date: 2020-08-16
 KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 1
 Id: 6/8



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.



Author: Jordan Aceto
License: CC by 4.0
creativecommons.org/licenses/by/4.0/

Sheet: /control_voltage_generator/
File: control_voltage_generator.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: 8/8