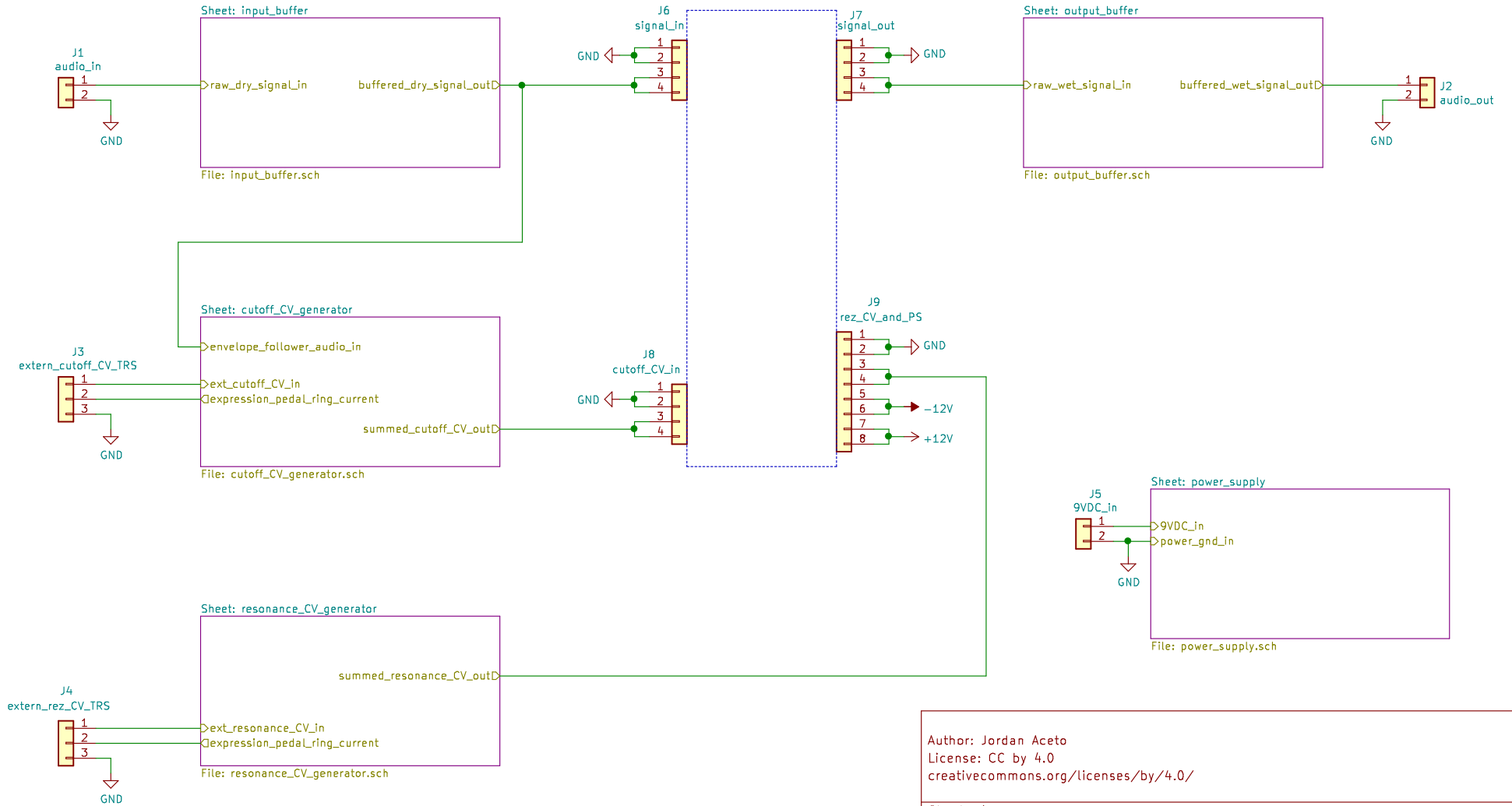


VCF Plug-In Board Port

For various compatible VCF boards visit:
github.com/JordanAceto/VCF_plug_in_boards



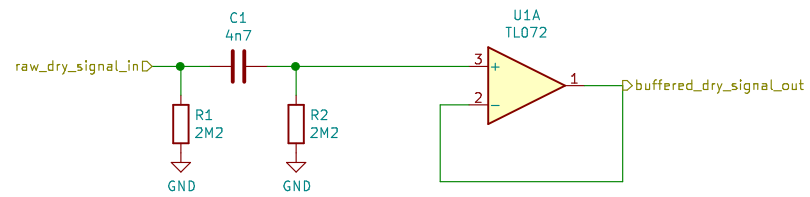
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Sheet: /
File: `whooshy_sound.sch`

Title: Whooshy Sound Filter Pedal

Size: A4
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Date: 2021-06-15
Rev: 0
Id: 1/8



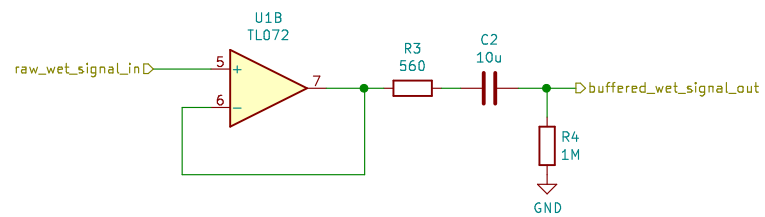
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 File: input_buffer.sch

Title: Whooshy Sound Filter Pedal

Size: A4
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Date: 2021-06-15
 Rev: 0
 Id: 2/8



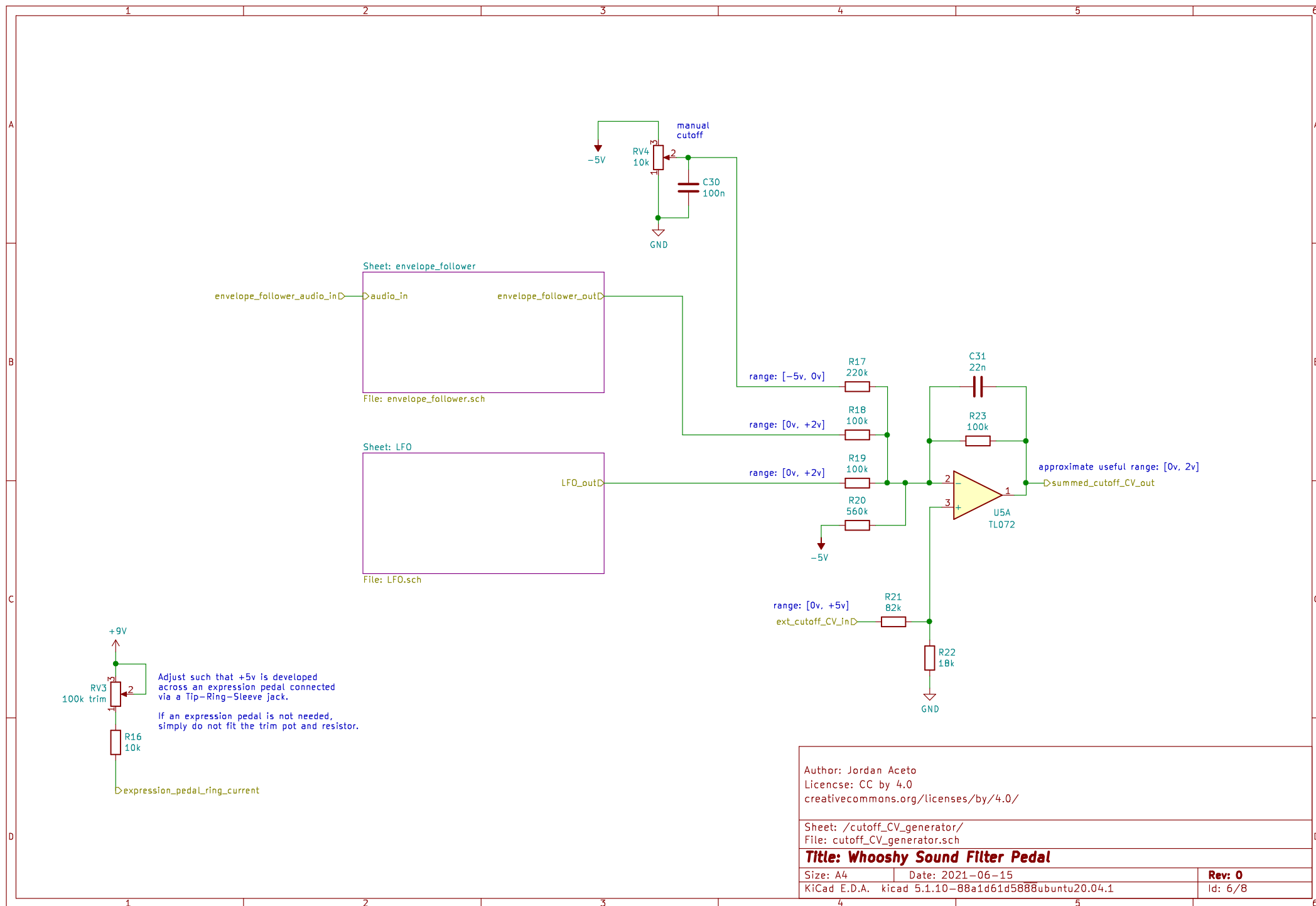
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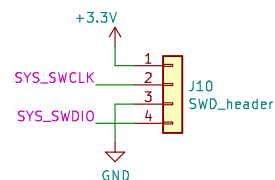
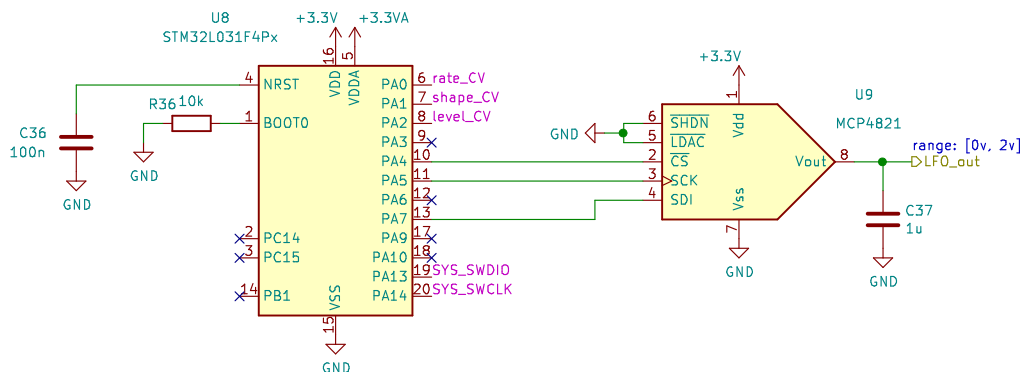
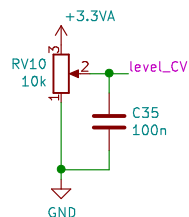
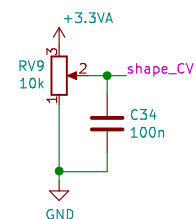
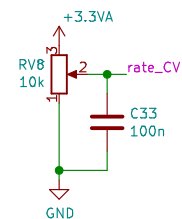
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Title: Whooshy Sound Filter Pedal

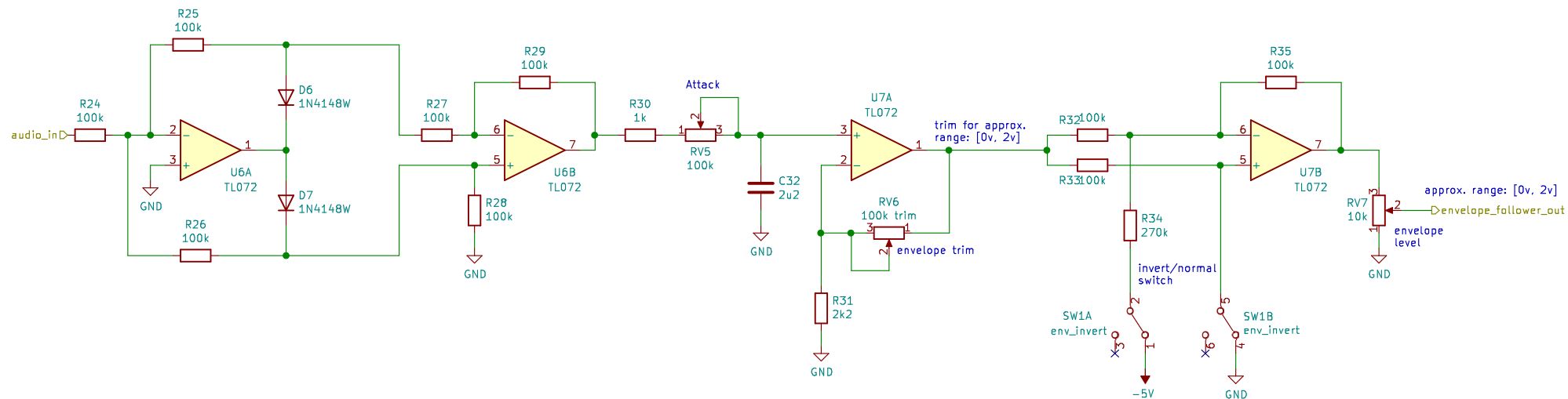
Size: A4
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Sheet: /cutoff_CV_generator/LFO/	
File: LFO.sch	
Title: Whooshy Sound Filter Pedal	
Size: A4	Date: 2021-06-15
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1	Rev: 0
	Id: 7/8



When the switch is set such that the opamp is inverting, a negative bias voltage is also applied which "pushes up" the signal. This keeps the signal voltage positive in either normal or inverting modes.

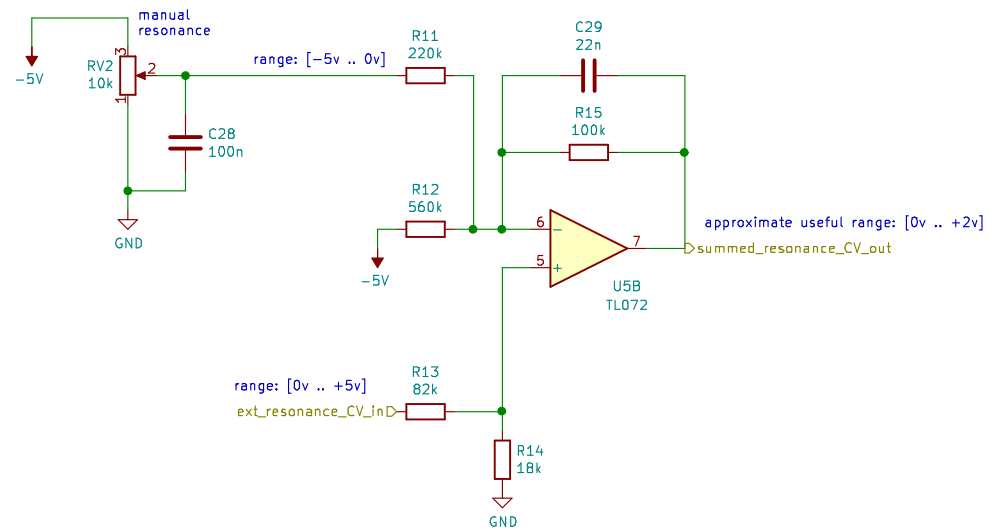
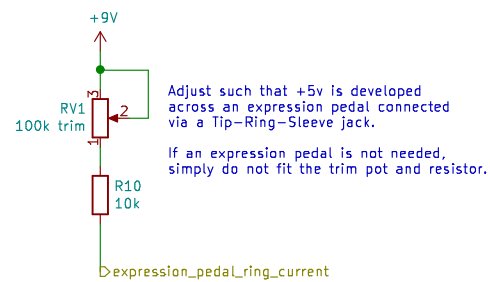
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Sheet: /cutoff_CV_generator/envelope_follower/
 File: envelope_follower.sch

Title: Whooshy Sound Filter Pedal

Size: A4 Date: 2021-06-15
 KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0
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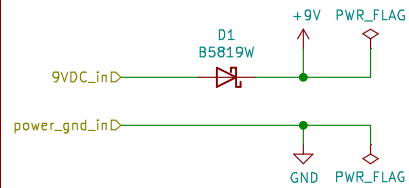
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Title: Whooshy Sound Filter Pedal

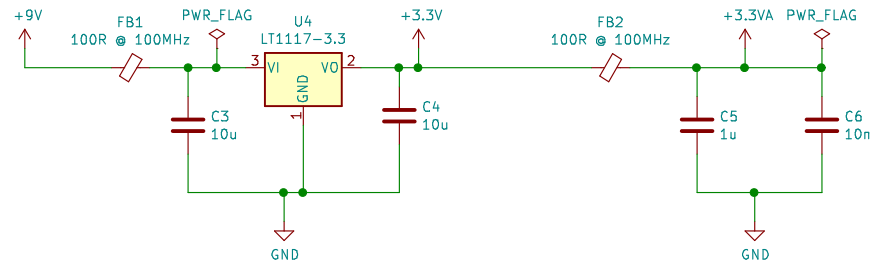
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 KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0
 Id: 5/8

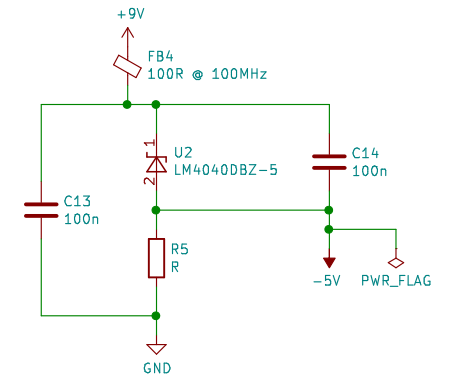
9 volt power entry



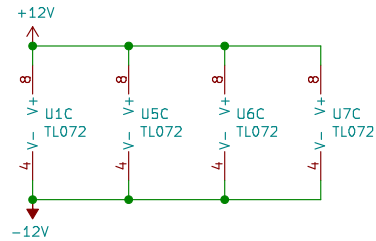
3.3 volt regulator



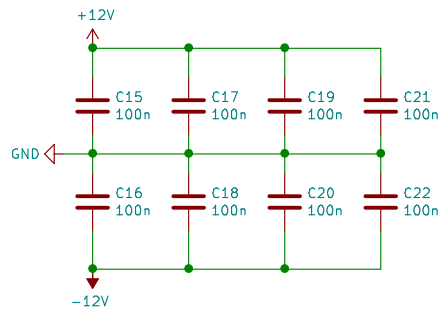
-5 volt reference



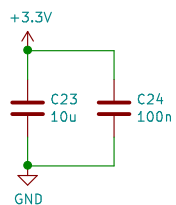
Opamp power pins



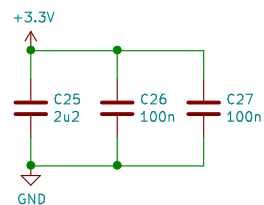
Opamp decoupling



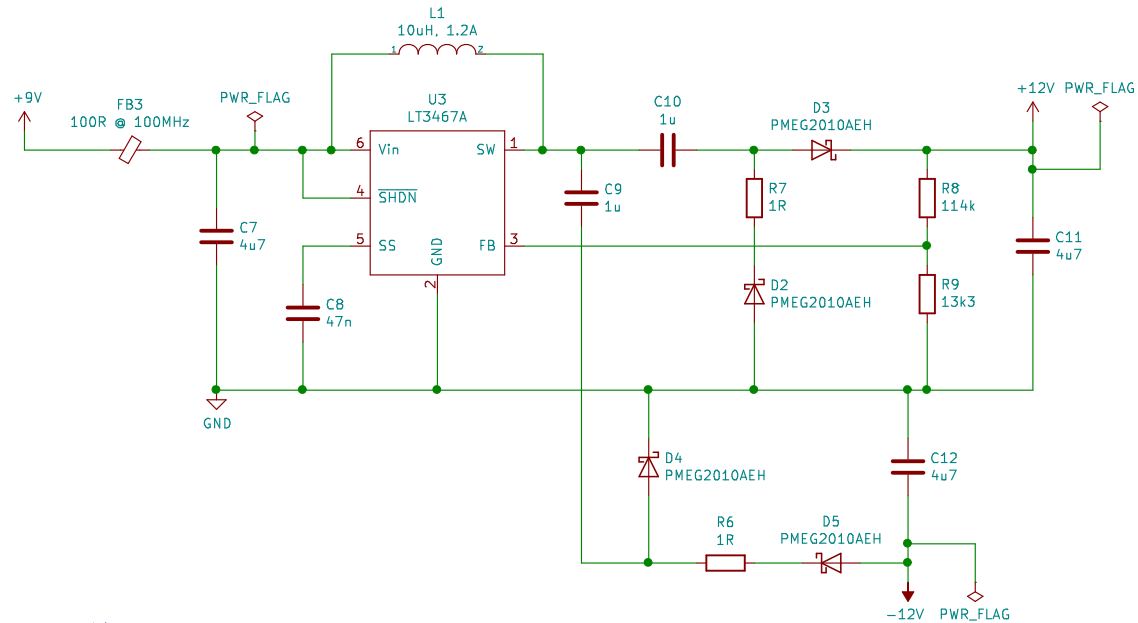
DAC decoupling



STM32 decoupling



+/-12 volt DC-DC converter



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Sheet: /power_supply/
 File: power_supply.sch

Title: Whooshy Sound Filter Pedal

Size: A4 Date: 2021-06-15
 KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0
 Id: 4/8