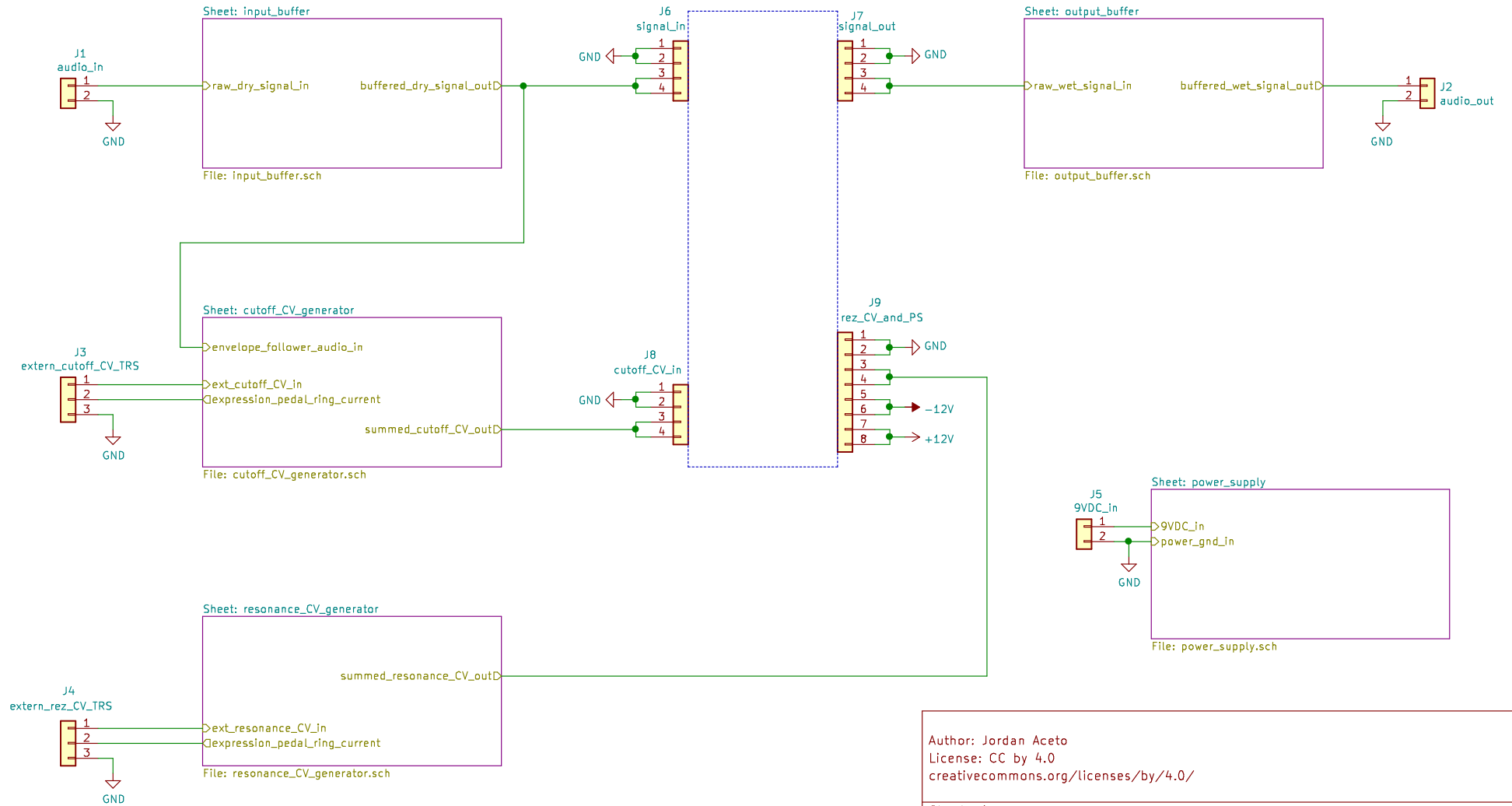


## VCF Plug-In Board Port

For various compatible VCF boards visit:  
[github.com/JordanAceto/VCF\\_plug\\_in\\_boards](https://github.com/JordanAceto/VCF_plug_in_boards)



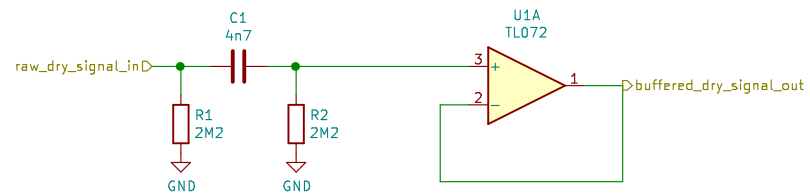
Author: Jordan Aceto  
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Sheet: /  
File: whooshy\_sound.sch

**Title: Whooshy Sound Filter Pedal**

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

Date: 2021-06-29  
Rev: 0  
Id: 1/8



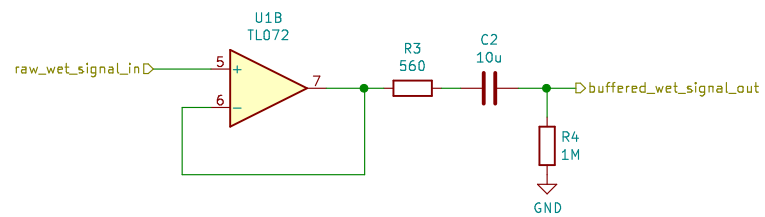
Author: Jordan Aceto  
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Sheet: /input\_buffer/  
 File: input\_buffer.sch

**Title: Whooshy Sound Filter Pedal**

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

Date: 2021-06-29  
 Rev: 0  
 Id: 2/8



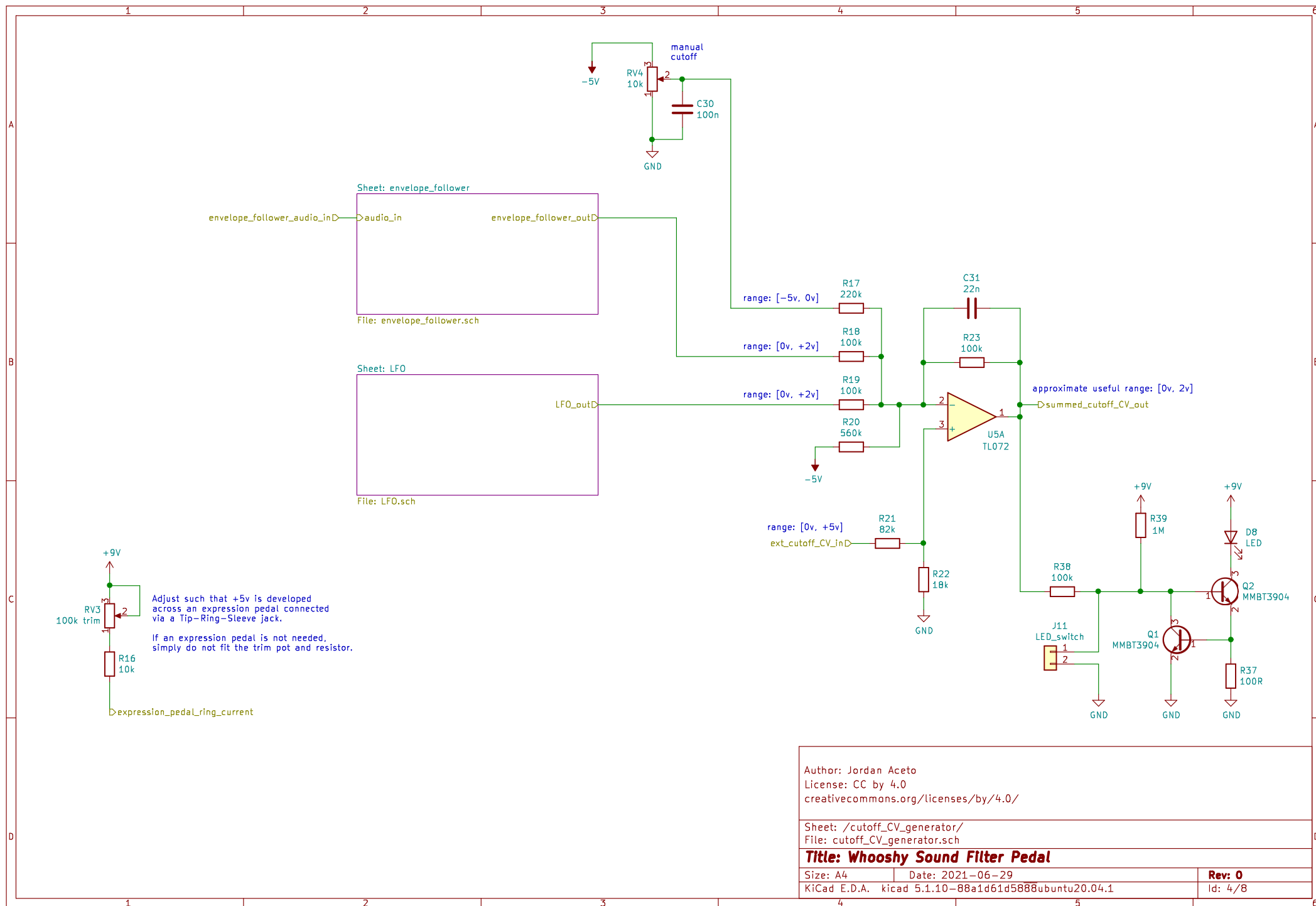
Author: Jordan Aceto  
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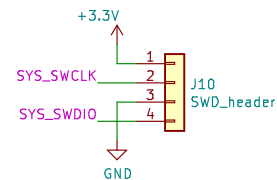
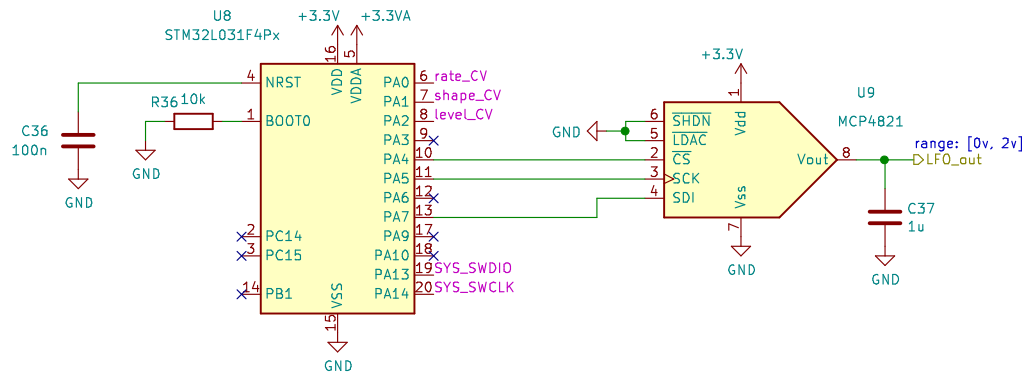
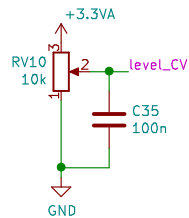
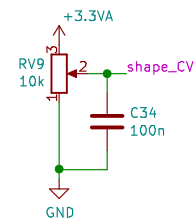
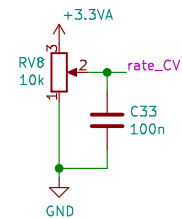
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**Title: Whooshy Sound Filter Pedal**

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

Date: 2021-06-29  
Rev: 0  
Id: 3/8





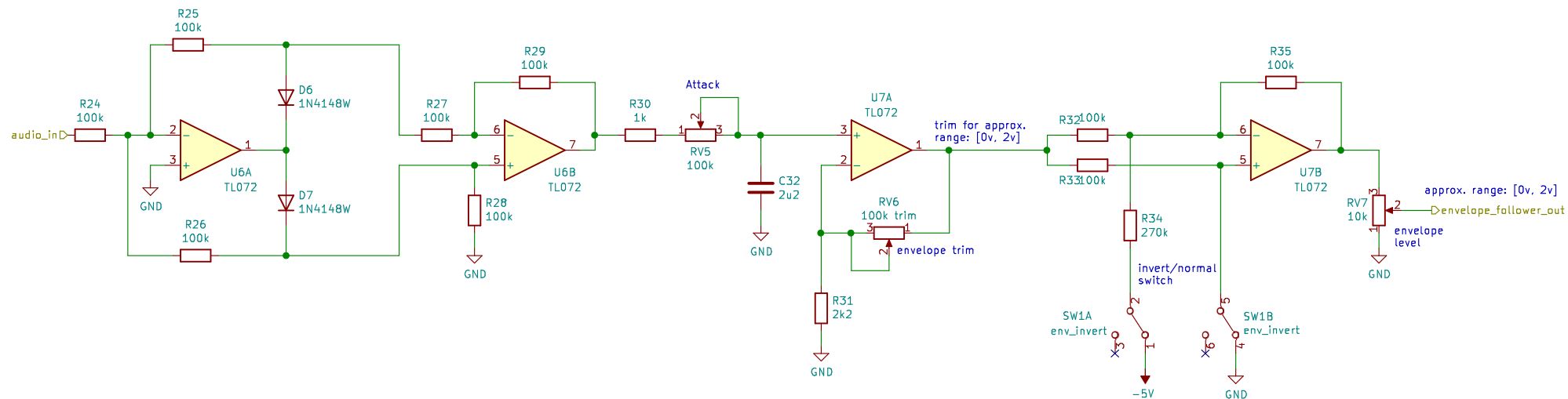
Author: Jordan Aceto  
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Sheet: /cutoff\_CV\_generator/LFO/  
File: LFO.sch

**Title: Whooshy Sound Filter Pedal**

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

Date: 2021-06-29  
Rev: 0  
Id: 5/8



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.

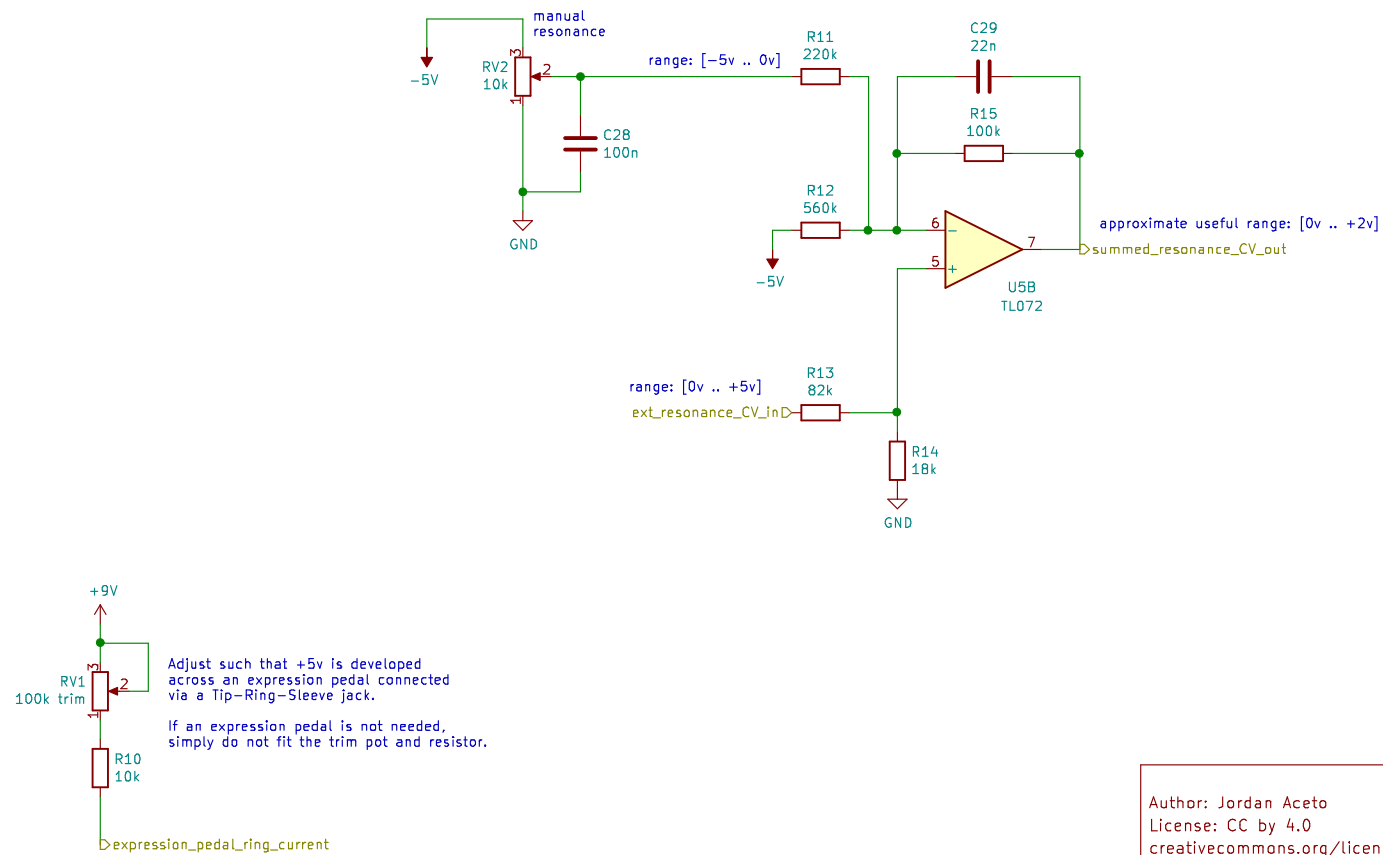
Author: Jordan Aceto  
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Sheet: /cutoff\_CV\_generator/envelope\_follower/  
File: envelope\_follower.sch

**Title: Whooshy Sound Filter Pedal**

Size: A4 Date: 2021-06-29  
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0  
Id: 6/8



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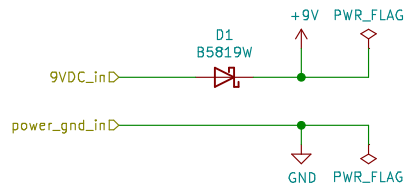
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 File: resonance\_CV\_generator.sch

**Title: Whooshy Sound Filter Pedal**

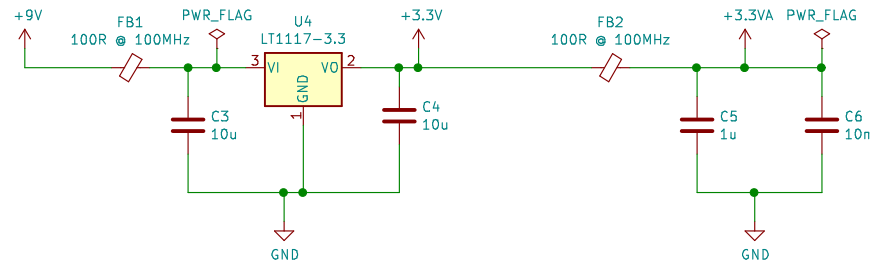
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 KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0  
 Id: 7/8

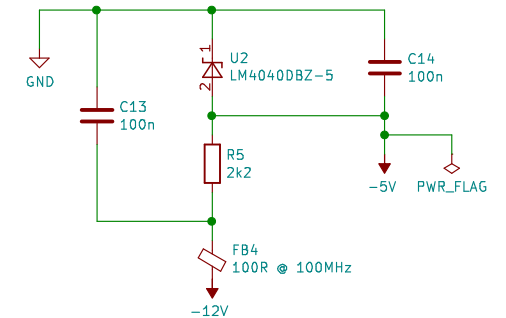
## 9 volt power entry



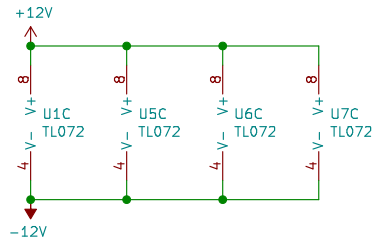
## 3.3 volt regulator



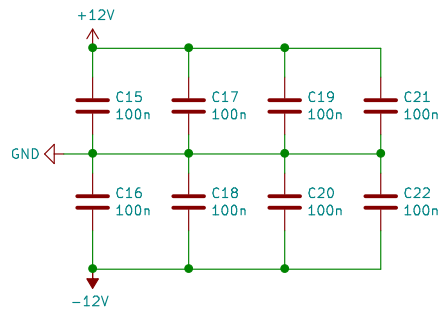
## -5 volt reference



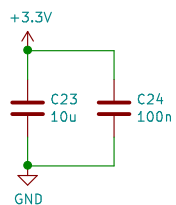
## Opamp power pins



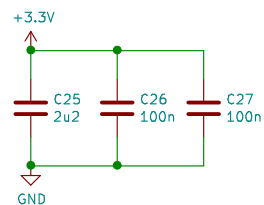
## Opamp decoupling



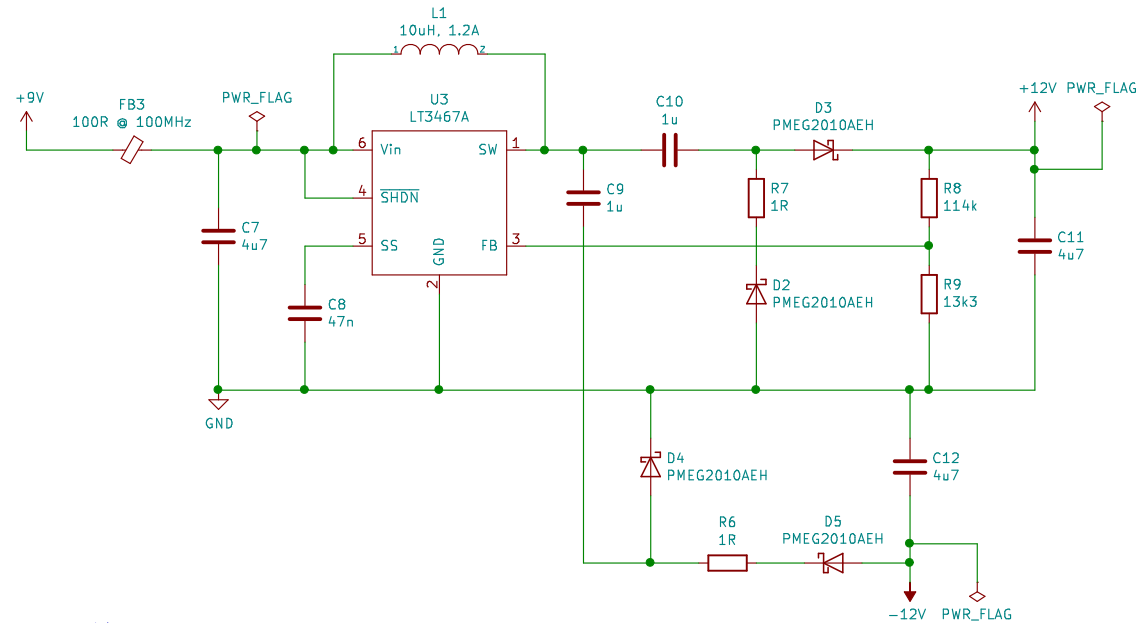
## DAC decoupling



## 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: 2021-06-29  
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1

Rev: 0  
Id: 8/8