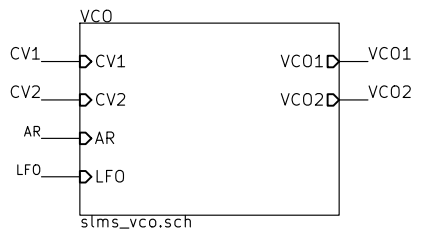
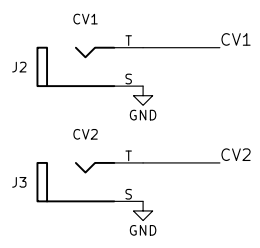
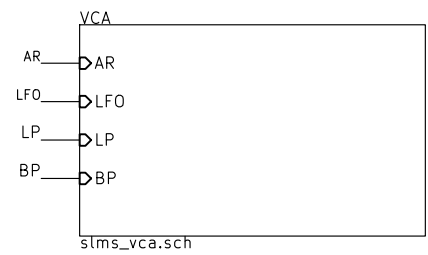


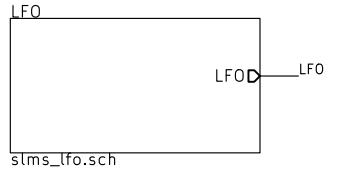
slms\_argen.sch



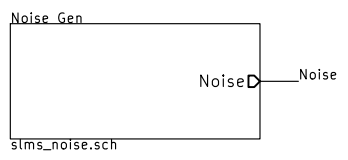
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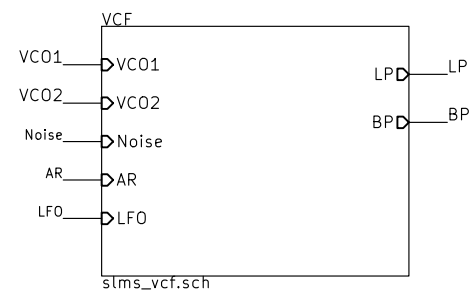
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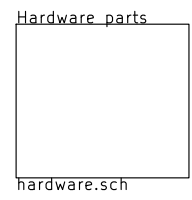
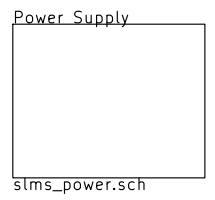
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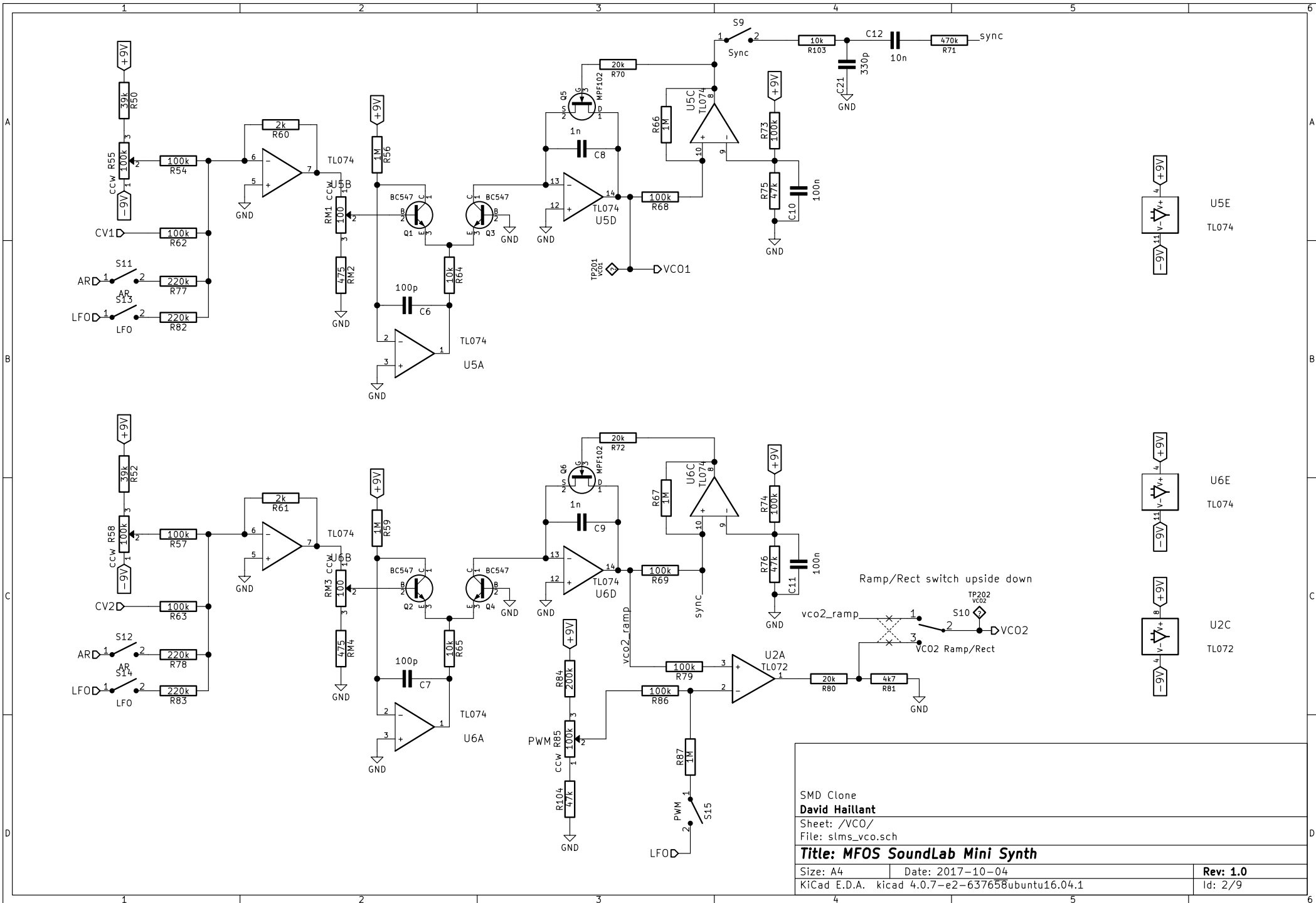
slms\_noise.sch



slms\_vcf.sch



SMD Clone		
<b>David Haillant</b>		
Sheet: /		
File: mfos slms.sch		
<b>Title: MFOS SoundLab Mini Synth</b>		
Size: A4	Date: 2017-10-04	Rev: 1.0
KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1	Id: 1/9	

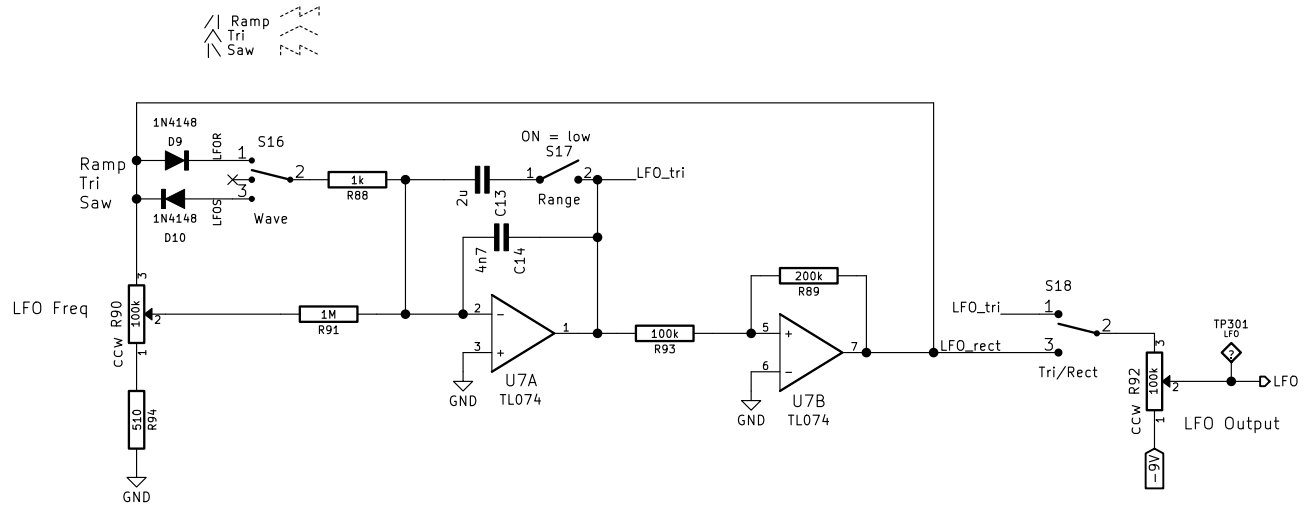


SMD Clone  
**David Hailant**  
 Sheet: /VCO/  
 File: slms\_vco.sch

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**Title: MFOS SoundLab Mini Synth**

Size: A4	Date: 2017-10-04	Rev: 1.0
KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1		Id: 2/9



SMD Clone

David Haillant

Sheet: /LFO/

File: slms\_lfo.sch

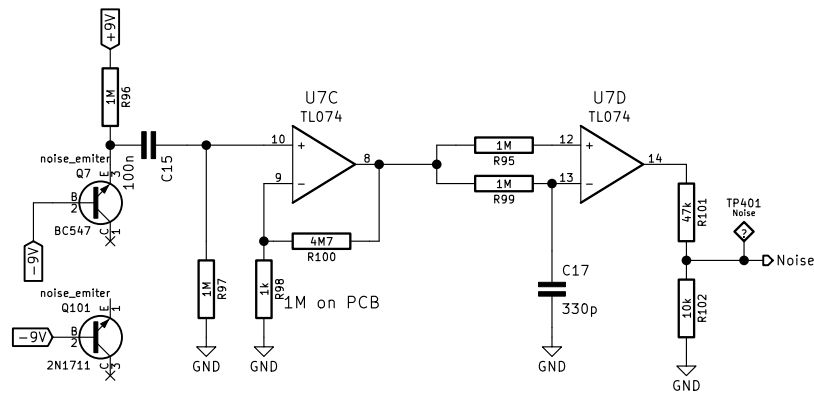
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Size: A4 | Date: 2017-10-04

KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1

Rev: 1.0

Id: 3/9



SMD Clone

**David Haillant**

Sheet: /Noise Gen/

File: slms\_noise.sch

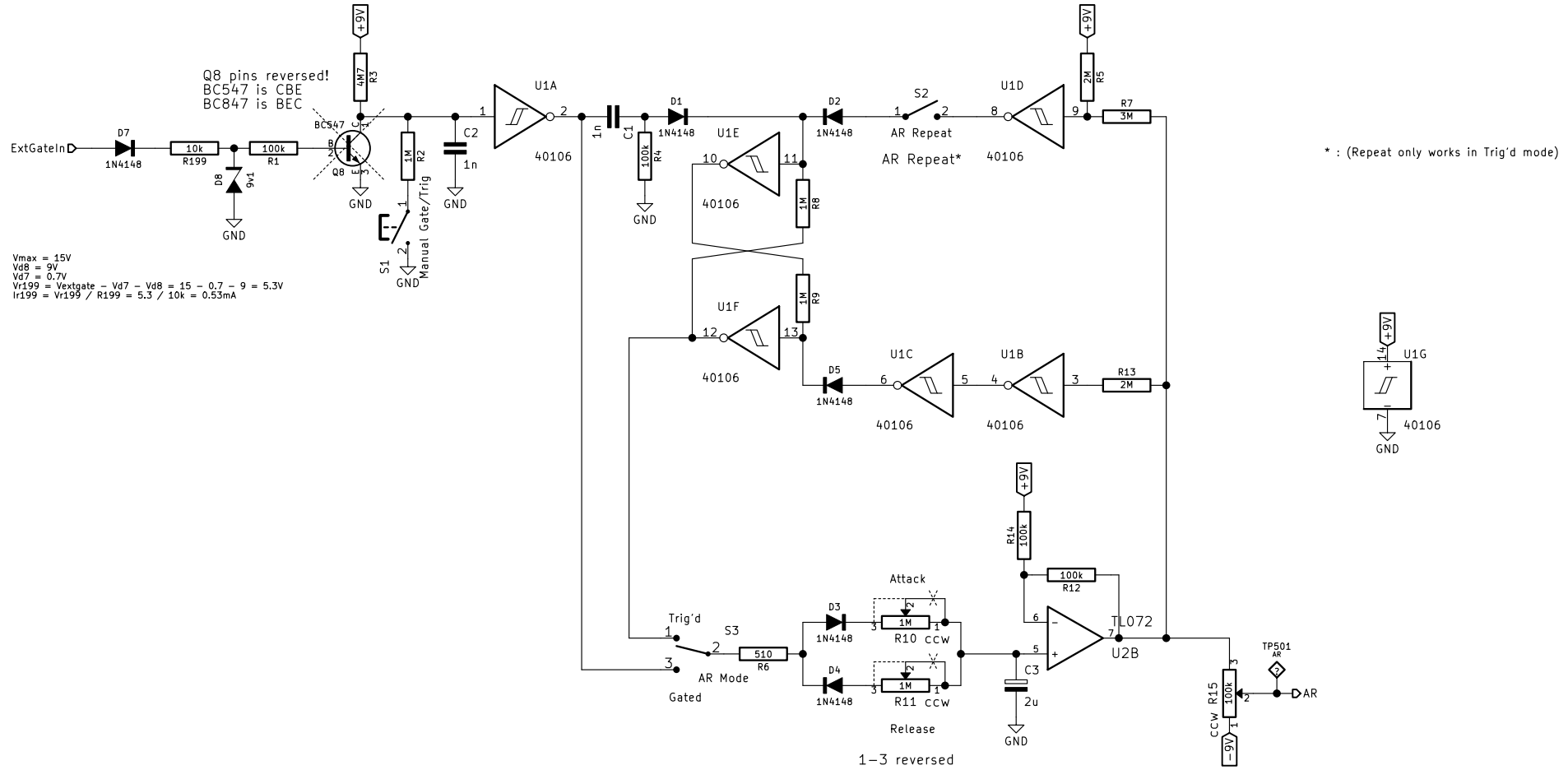
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Size: A4 Date: 2017-10-04

KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1

**Rev: 1.0**

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Vmax = 15V  
Vd8 = 9V  
Vd7 = 0.7V  
Vr199 = Vextgate - Vd7 - Vd8 = 15 - 0.7 - 9 = 5.3V  
Ir199 = Vr199 / R199 = 5.3 / 10k = 0.53mA

SMD Clone  
David Hailant

Sheet: /Attack Release Envelope Generator/  
File: slms\_argen.sch

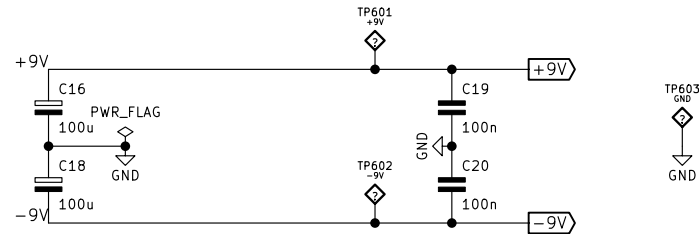
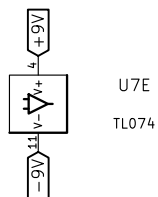
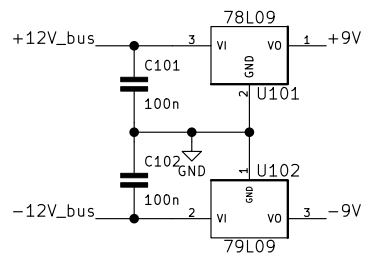
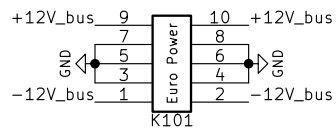
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Size: A4 Date: 2017-10-04

KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1

Rev: 1.0

Id: 5/9



SMD Clone  
David Haillant

Sheet: /Power Supply/  
File: slms\_power.sch

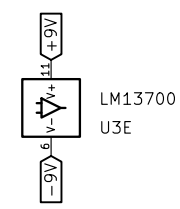
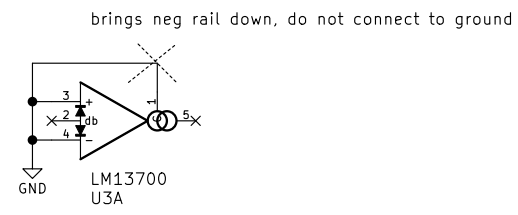
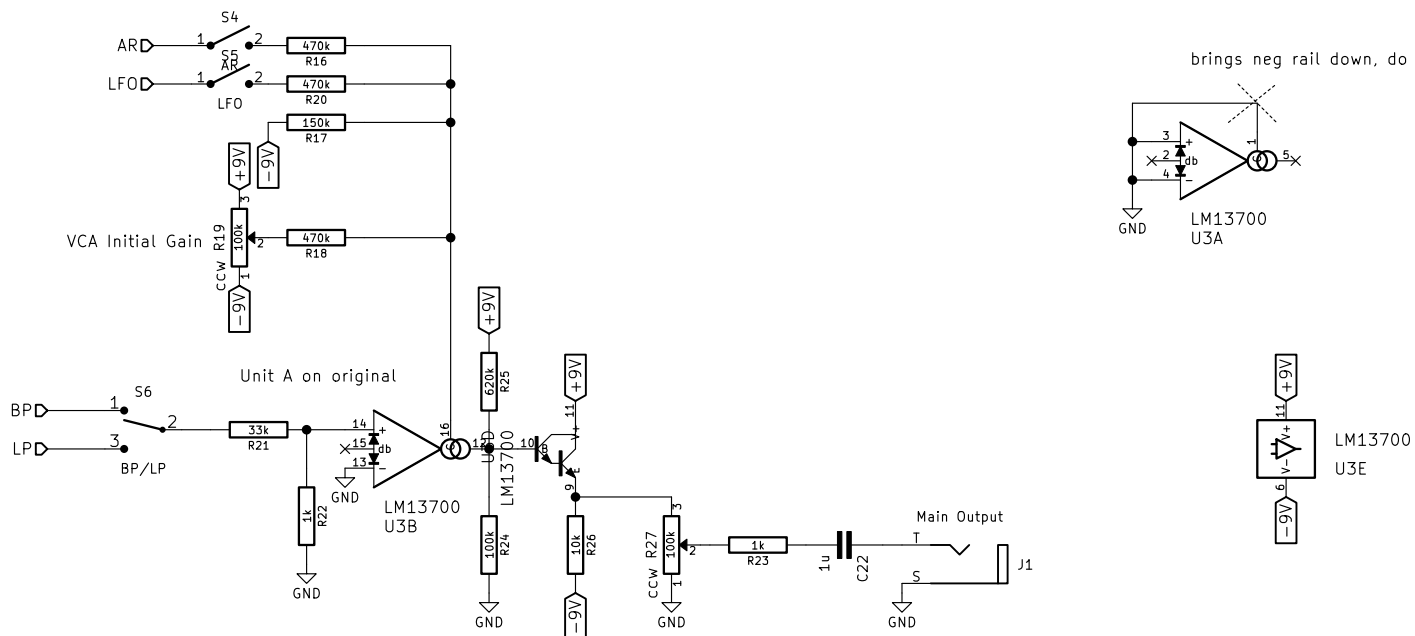
**Title: MFOS SoundLab Mini Synth**

Size: A4 Date: 2017-10-04

KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1

Rev: 1.0

Id: 6/9



SMD Clone  
**David Hailant**  
 Sheet: /VCA/  
 File: slms\_vca.sch

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**Title: MFOS SoundLab Mini Synth**

Size: A4	Date: 2017-10-04	<b>Rev: 1.0</b>
KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1		Id: 7/9





Potentiometers:  
<https://www.thonk.co.uk/shop/alpha-9mm-pots/>  
<http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/>  
<https://www.musikding.de/Pot-9mm-100k-lin-Print-vertical>  
<https://erthenvar.myshopify.com/collections/9mm-potentiometers/products/smooth-shaft-vertical-pot>

Buttons:  
<https://www.musikding.de/Nose-Knob-orange>  
<http://smallbear-electronics.mybigcommerce.com/knurled-colored-caps/>

Jacks (PJ301BM):  
<https://erthenvar.myshopify.com/collections/accessories/products/3-5mm-vertical-jacks>  
<https://www.thonk.co.uk/shop/3-5mm-jacks/>  
<http://www.qingpu-electronics.com/en/products/wqp-pj3010bm-34.html>



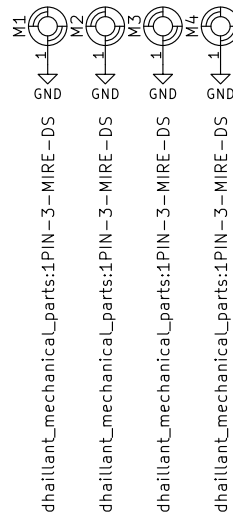
Front panel



PCB

P1A  
 PROTO\_4X6  
 1 2  
 dhaillant\_proto:proto\_4x6

1 P2 PROTO\_1X6  
 dhaillant\_proto:proto\_1x6  
 1 P3 PROTO\_1X6  
 dhaillant\_proto:proto\_1x6



SMD Clone

**David Haillant**

Sheet: /Hardware parts/  
 File: hardware.sch

**Title: MFOS SoundLab Mini Synth**

Size: A4 Date: 2017-10-04  
 KiCad E.D.A. kicad 4.0.7-e2-637658ubuntu16.04.1

Rev: 1.0  
 Id: 9/9