

GUENTHER CHIPTUNE

Sheet: /CV Generator/New 1V DAC (Octave)/

File: New 1V DAC (Octave).sch

Title: Improved 1V DAC (Analog Output)

Dave Guenther

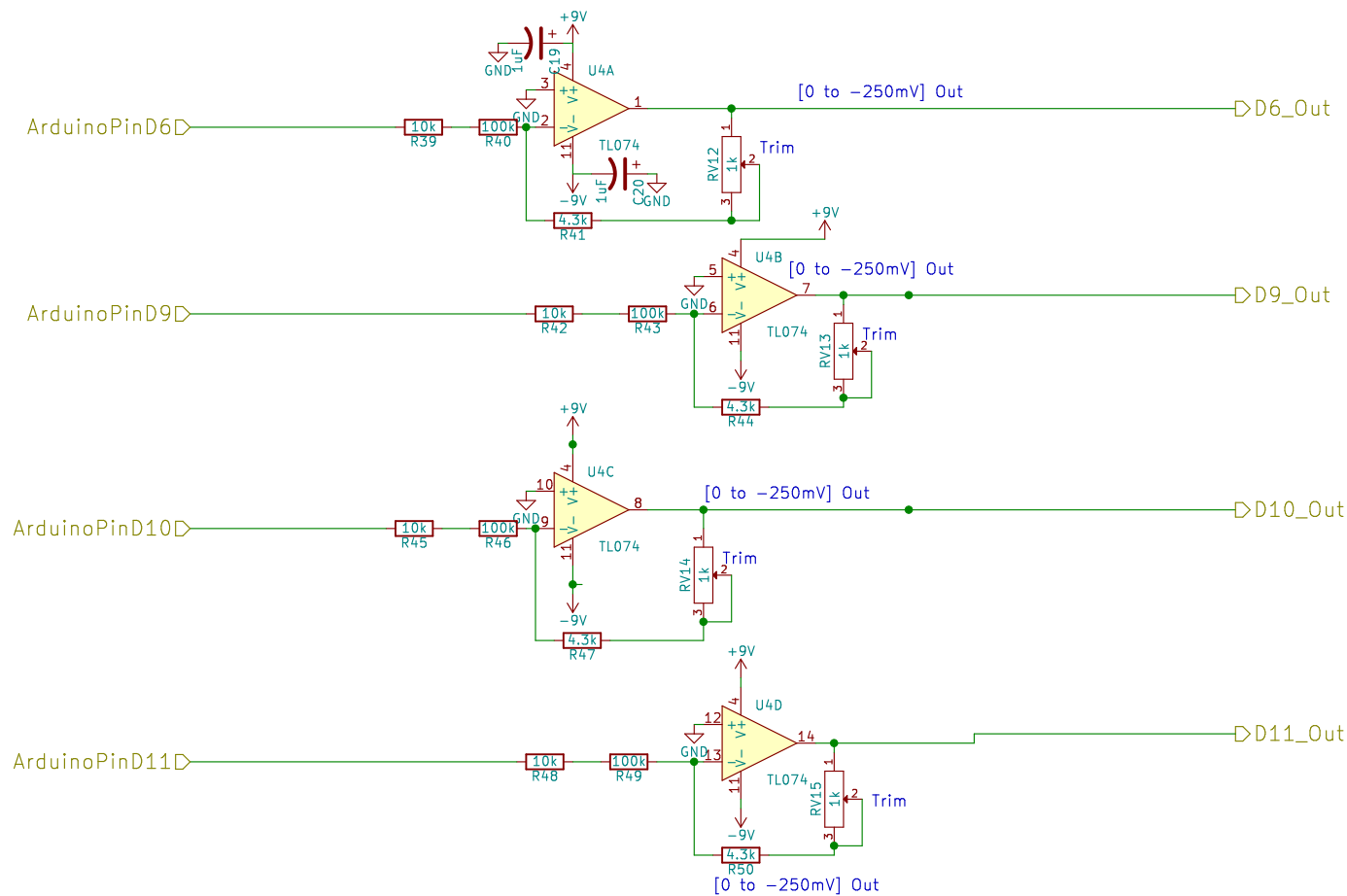
Size: A4

Date:

Rev:

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Id: 3/28



GUENTHER CHIPTUNE

Sheet: /CV Generator/Original1VDAC/
File: Original1VDAC.sch

Title: Original 1V DAC

Dave Guenther

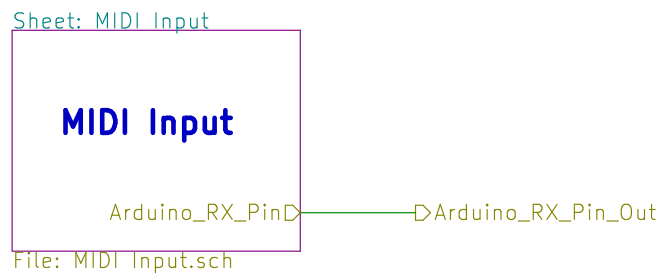
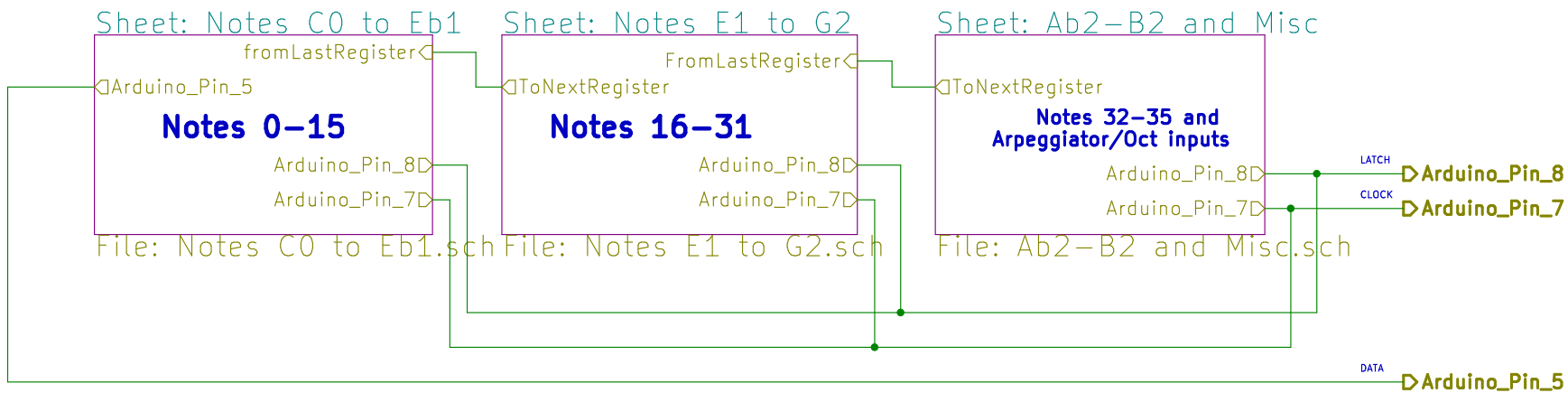
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Rev:

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Id: 4/28

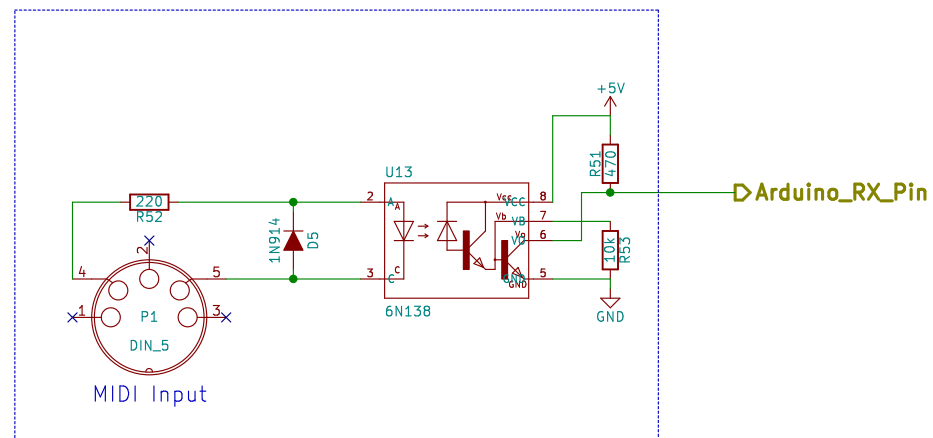


GUENTHER CHIPTUNE

Sheet: /MIDI/Keyboard Input/
File: MIDI-Key Input.sch

Title: MIDI and Keyboard Input **Dave Guenther**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad 4.0.2-stable		Id: 5/28



MIDI Input schematic based on Instructable by Amanda Ghassaei
<http://www.instructables.com/id/Send-and-Receive-MIDI-with-Arduino/>

GUENTHER CHIPTUNE

Sheet: /MIDI/Keyboard Input/MIDI Input/
 File: MIDI Input.sch

Title: MIDI Input from Computer/Controller

Dave Guenther

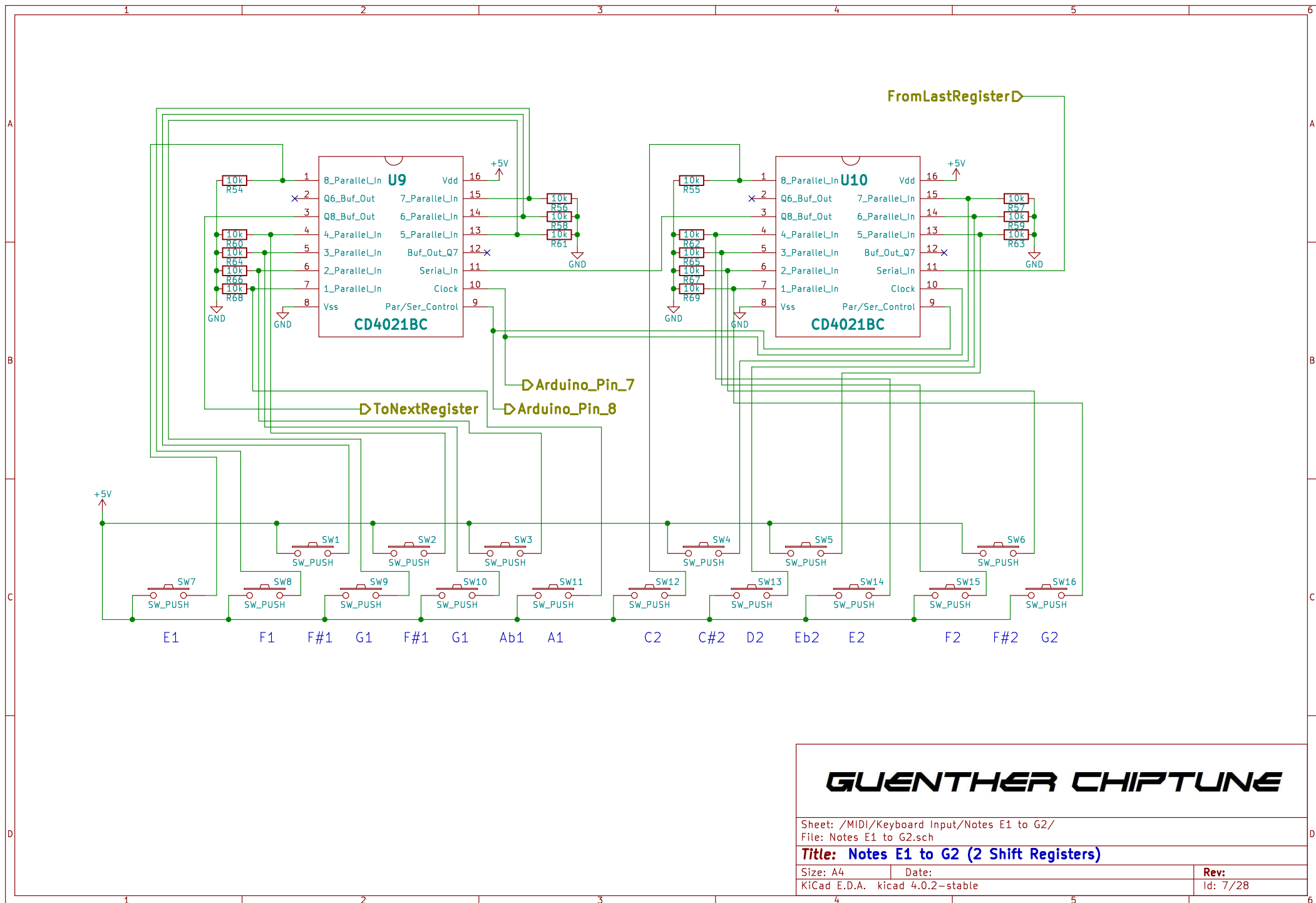
Size: A4

Date:

Rev:

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Id: 6/28



GUENTHER CHIPTUNE

Sheet: /MIDI/Keyboard Input/Notes E1 to G2/
File: Notes E1 to G2.sch

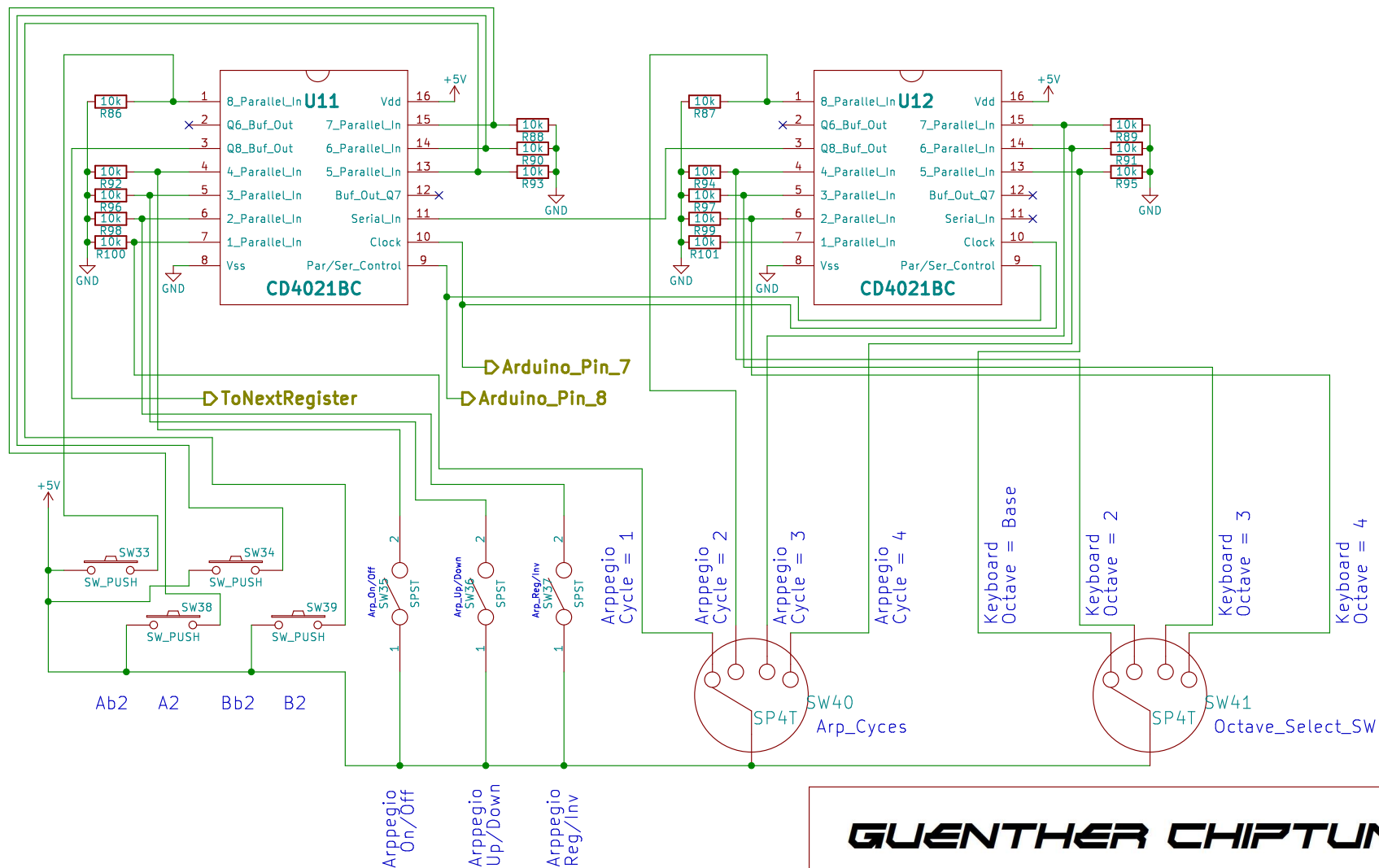
Title: Notes E1 to G2 (2 Shift Registers)

Size: A4	Date:	Rev:
KiCad E.D.A.	kicad 4.0.2-stable	Id: 7/28



Dave Guenther

Size: A4	Date:
KiCad E.D.A. kicad 4.0.2-stable	



GUENTHER CHIPTUNE

Sheet: /MIDI/Keyboard Input/Ab2-B2 and Misc/
File: Ab2-B2 and Misc.sch

Title: Notes Ab2 to B2, Arp and Octave Controls **Dave Guenther**

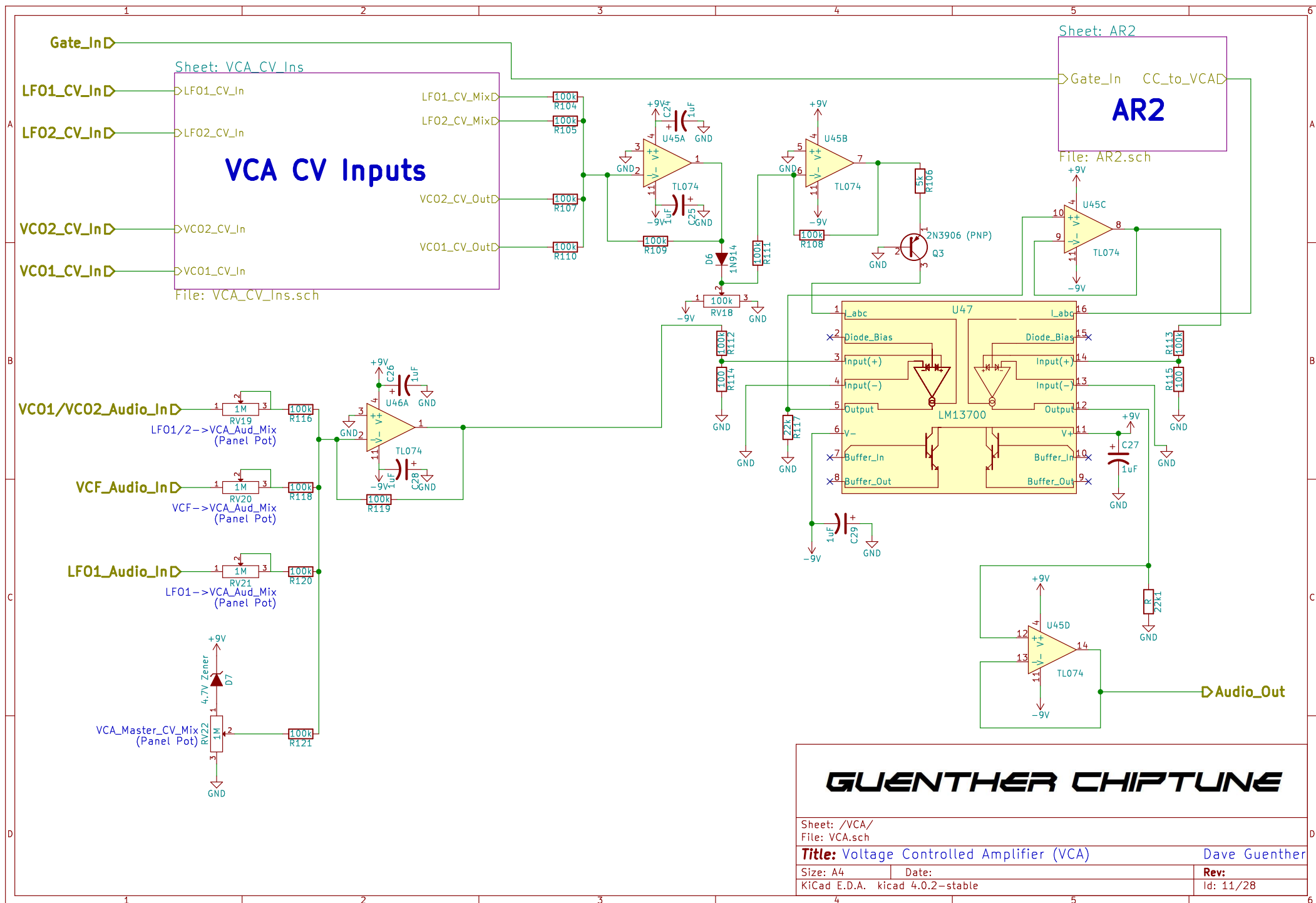
Size: A4 Date: **Rev:**
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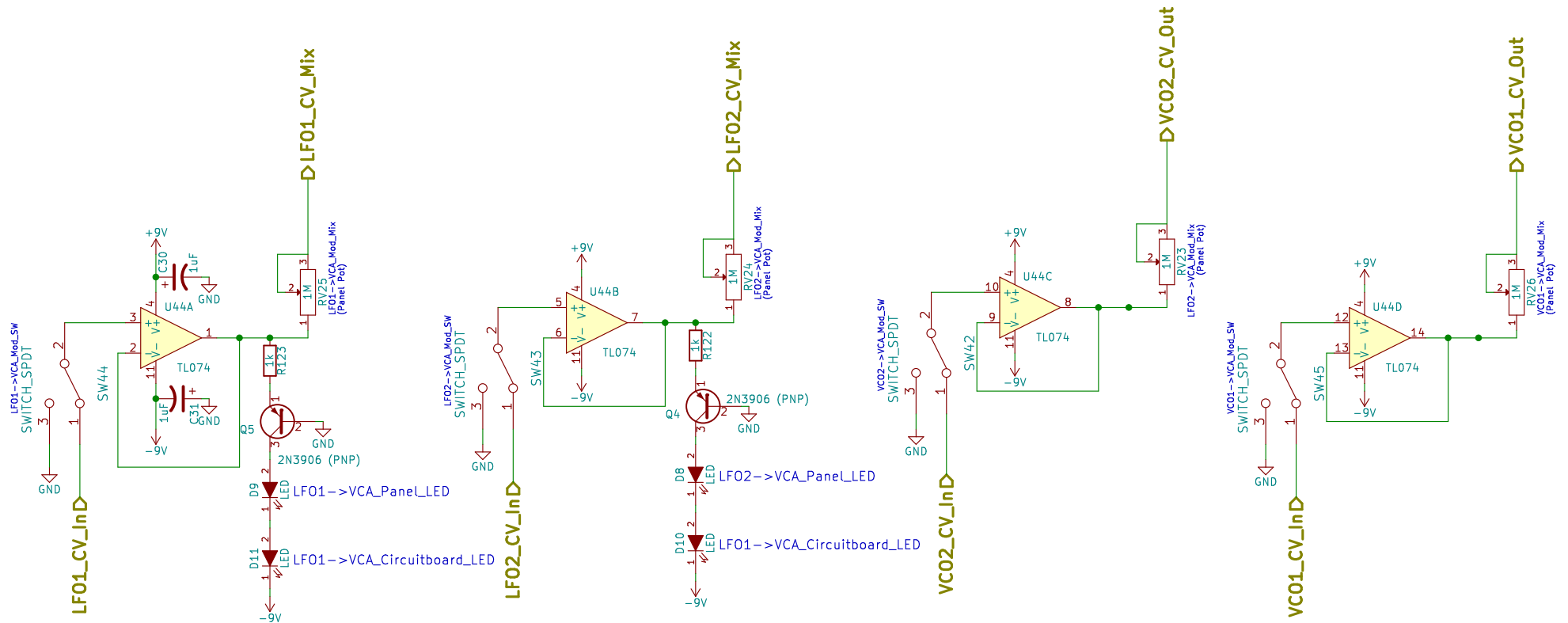
Rev:

Id: 10/28



GUENTHER CHIPTUNE

Sheet: /VCA/		File: VCA.sch	
Title: Voltage Controlled Amplifier (VCA)		Dave Guenther	
Size: A4	Date:	Rev:	
KiCad E.D.A. kicad 4.0.2--stable		Id: 11/28	



GUENTHER CHIPTUNE

Sheet: /VCA/VCA_CV_Ins/
File: VCA_CV_Ins.sch

Title: VCA CV Input Mixer

Dave Guenther

Size: A4

Date:

Rev:

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Id: 12/28



File: AR2.sch

Dave Guenther

Date:

Rev:

Id: 13/28

CV_In

Sheet: VCO1_CV_Mixer

VC01_CV_Ins

AR1_CVD

AR1_CV

AR1_CV_MixD

AR1_CV

LF01_CVD

LF01_CV

LF02_CV_MixD

LF02_CV

LF02_CVD

LF02_CV

LF01_CV_MixD

LF01_CV

CC_OUT(0-700uA)

File: VC01_CV_Mixer.sch

Sheet: VCO1_Exponential Converter

Exponential Converter
(1V/Oct)

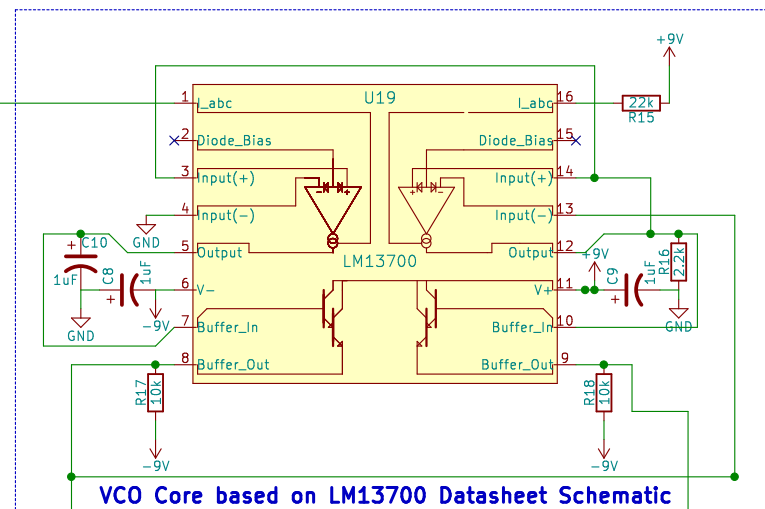
CV_In

AR1_CV

LF02_CV

LF01_CV

File: VCO1_Exponential Converter.sch



Triangle Out
(-2.5V to 2.5V)

Square Out

Sheet: VCO1_Normalizer

Audio/CV Normalizer

Square_In Signal_Out(Audio)

Audio_Signal_Out

Triangle_In Signal_Out(CV)

CV_Signal_Out

File: VCO1_Normalizer.sch

GUENTHER CHIPTUNE

Sheet: /VC01/
File: VCO.sch

Title: LM13700 VCO Square-Tri Core (1V/Oct)

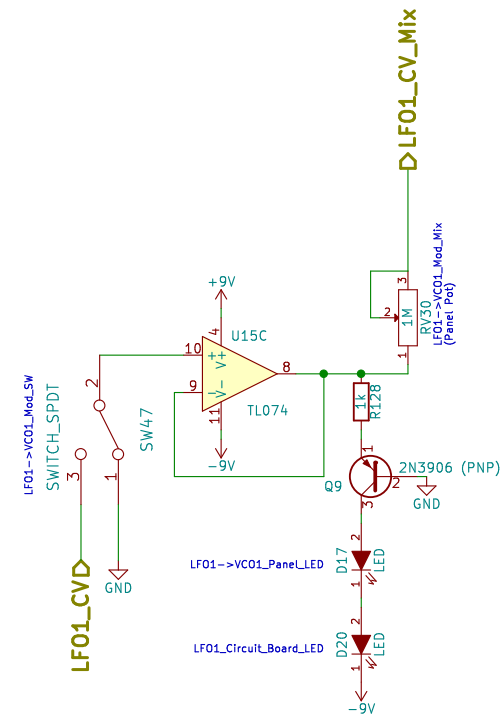
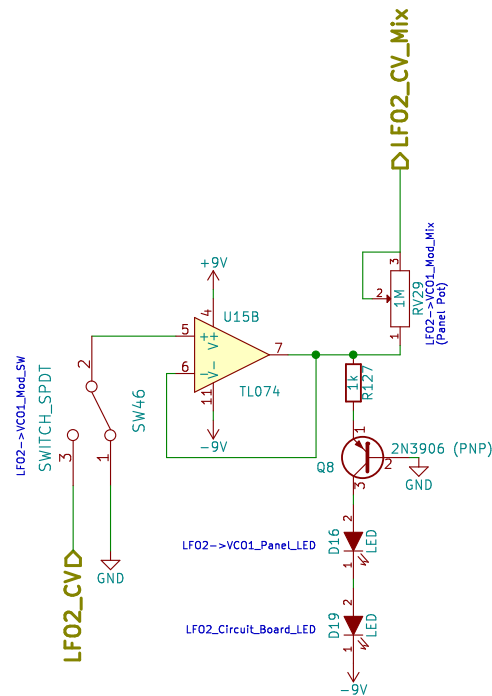
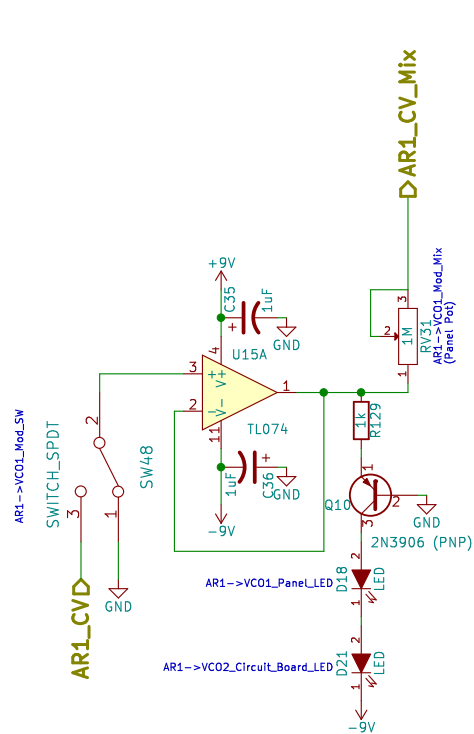
Dave Guenther, 2016

Size: USLetter Date: 5/30/2016

Rev:

KiCad E.D.A. kicad 4.0.2-stable

Id: 14/28



GUENTHER CHIPTUNE

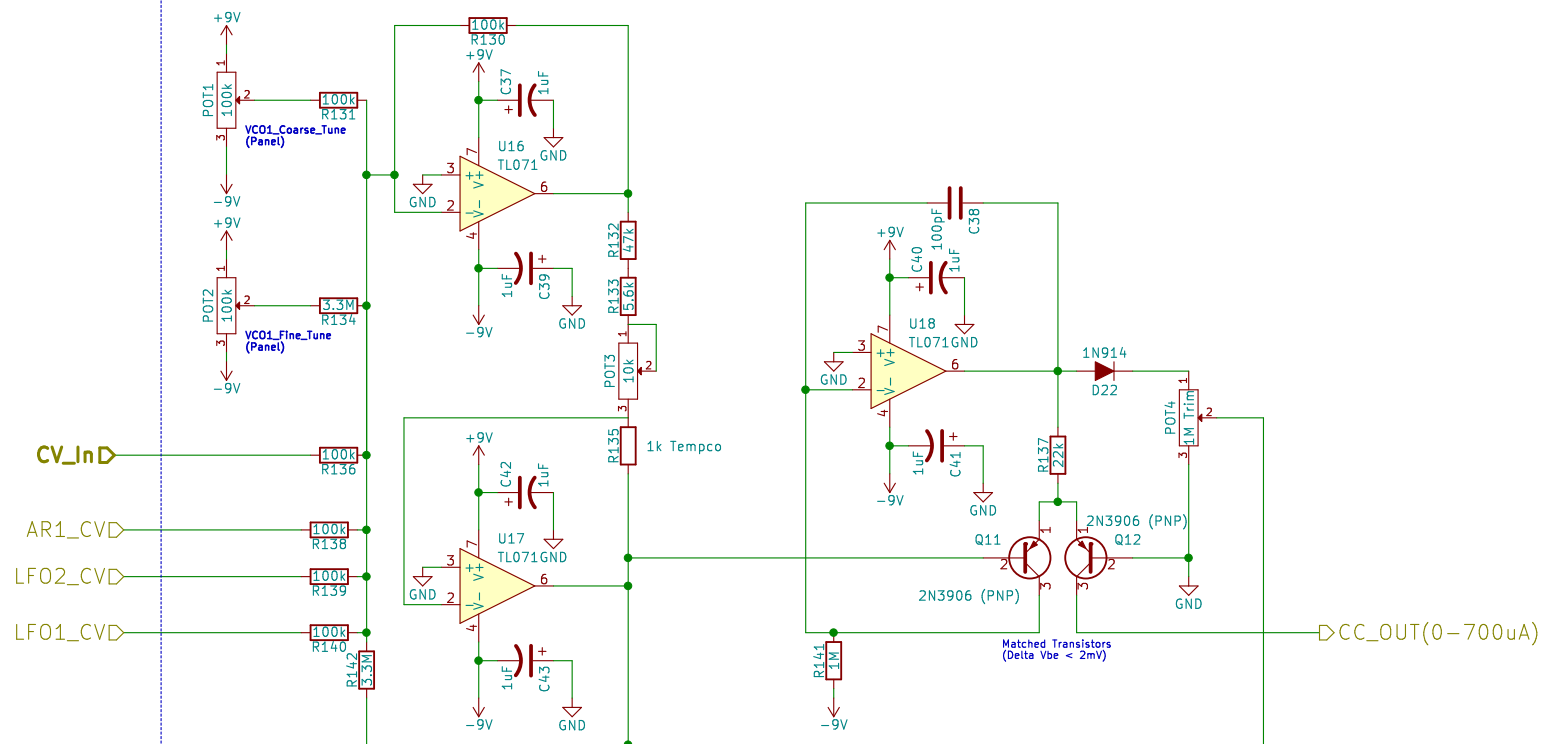
Sheet: /VC01/VC01_CV_Mixer/
File: VC01_CV_Mixer.sch

Title: VC01 CV Mixer

Dave Guenther 2016

Size: USLetter Date:
KiCad E.D.A. kicad 4.0.2-stable

Rev:
Id: 15/28



GUENTHER CHIPTUNE

Sheet: /VCO1/VCO1 Exponential Converter/
 File: VCO1 Exponential Converter.sch

Title: Exponential Converter (1V/Oct)

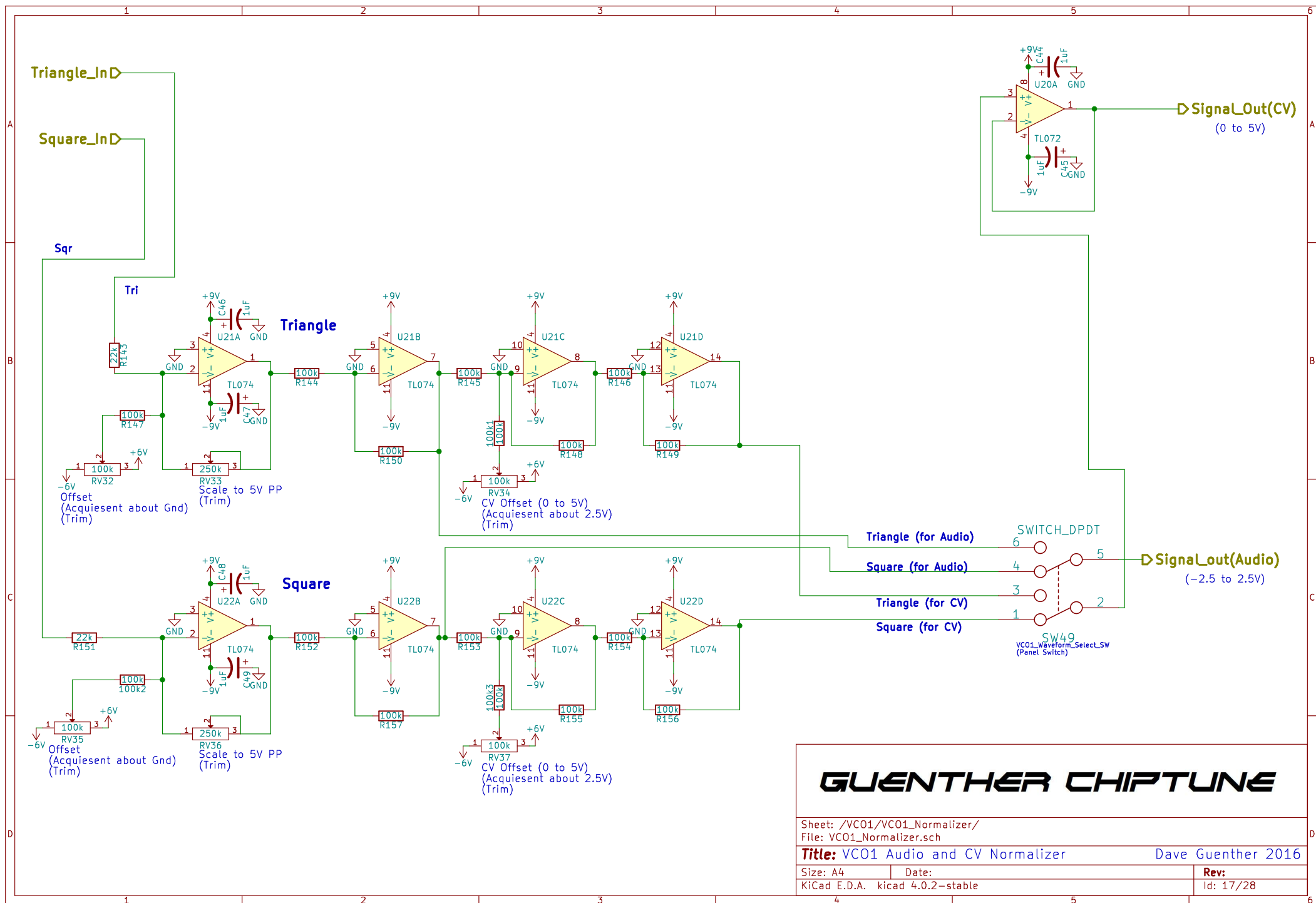
Dave Guenther

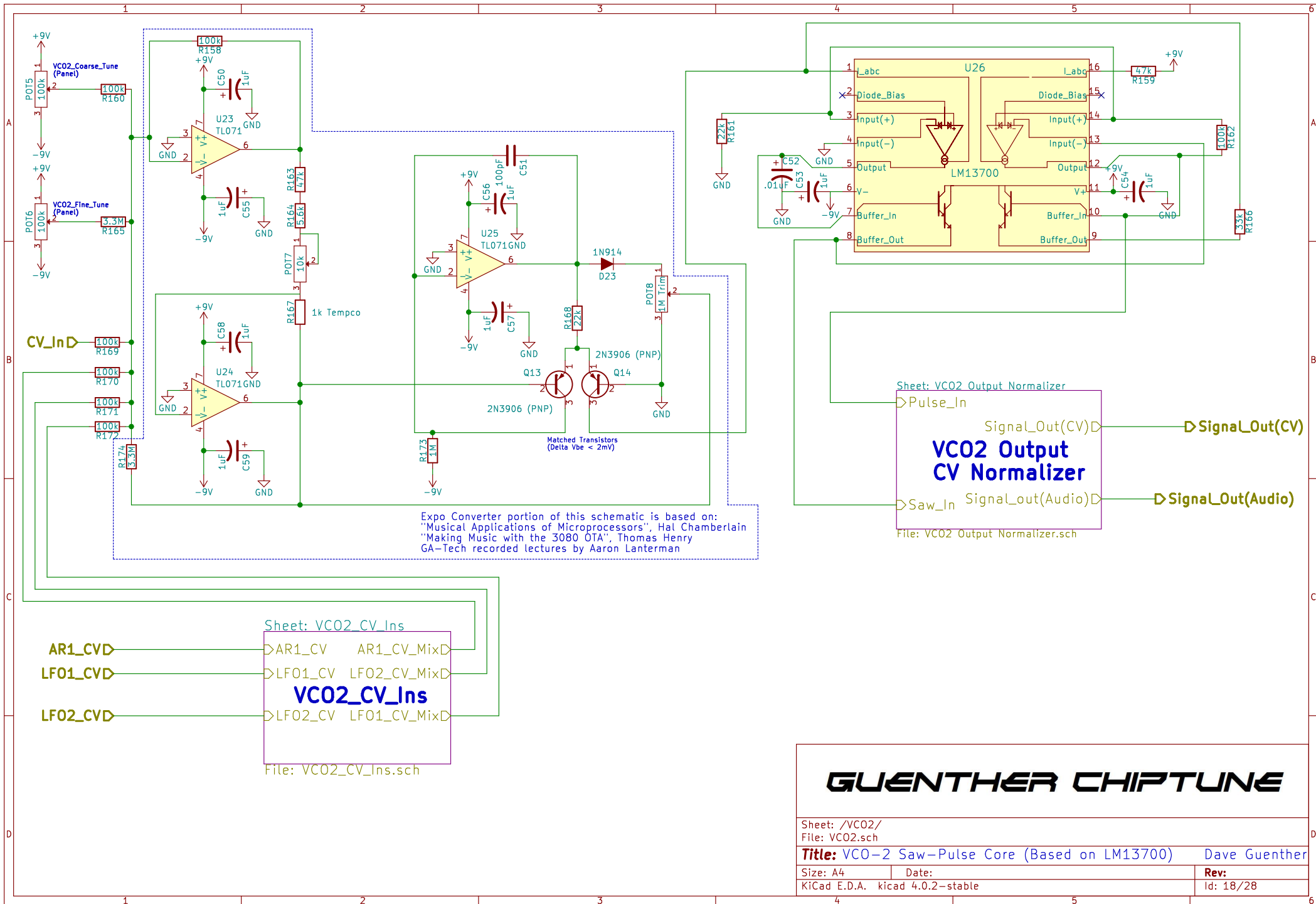
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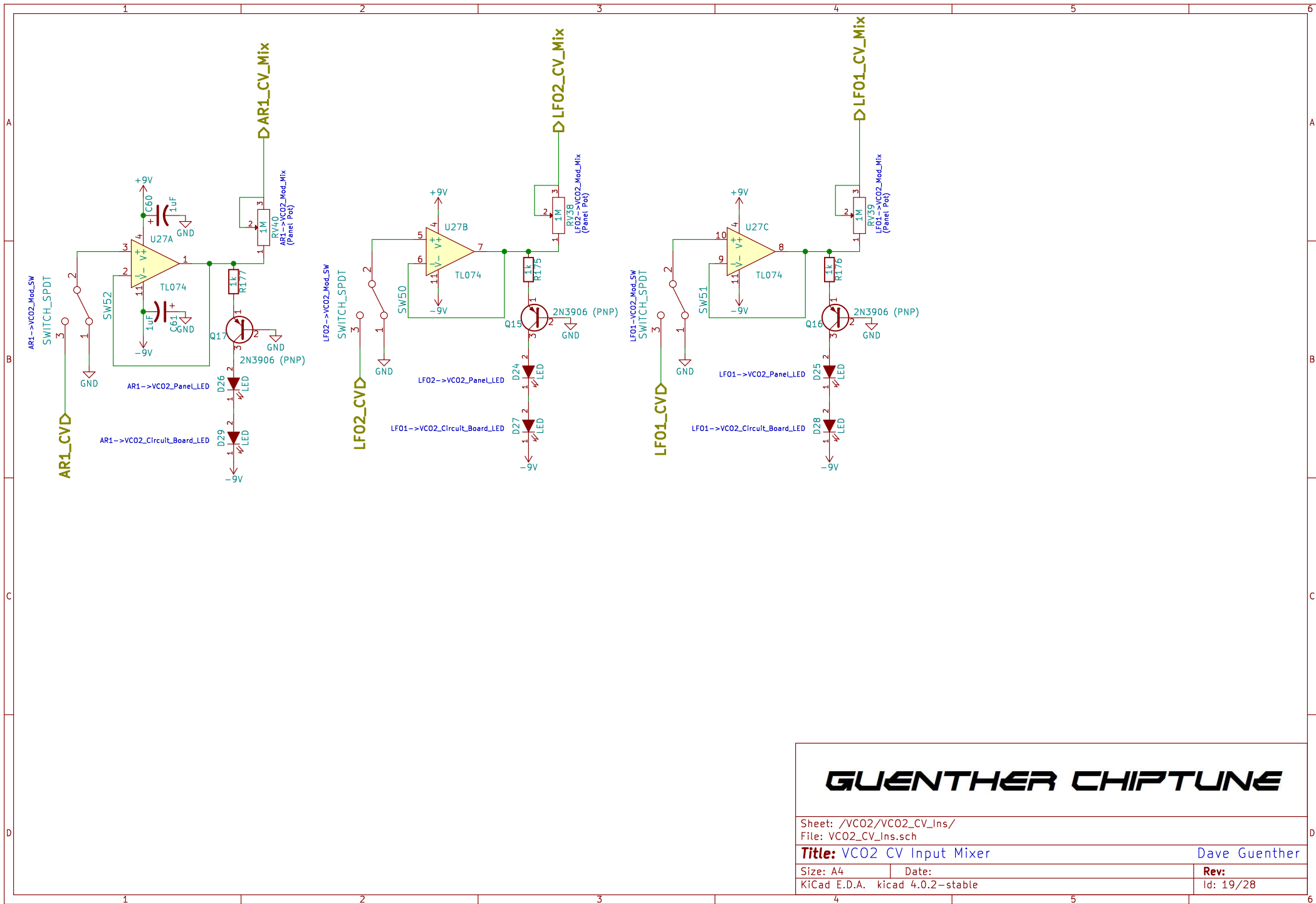
Rev:

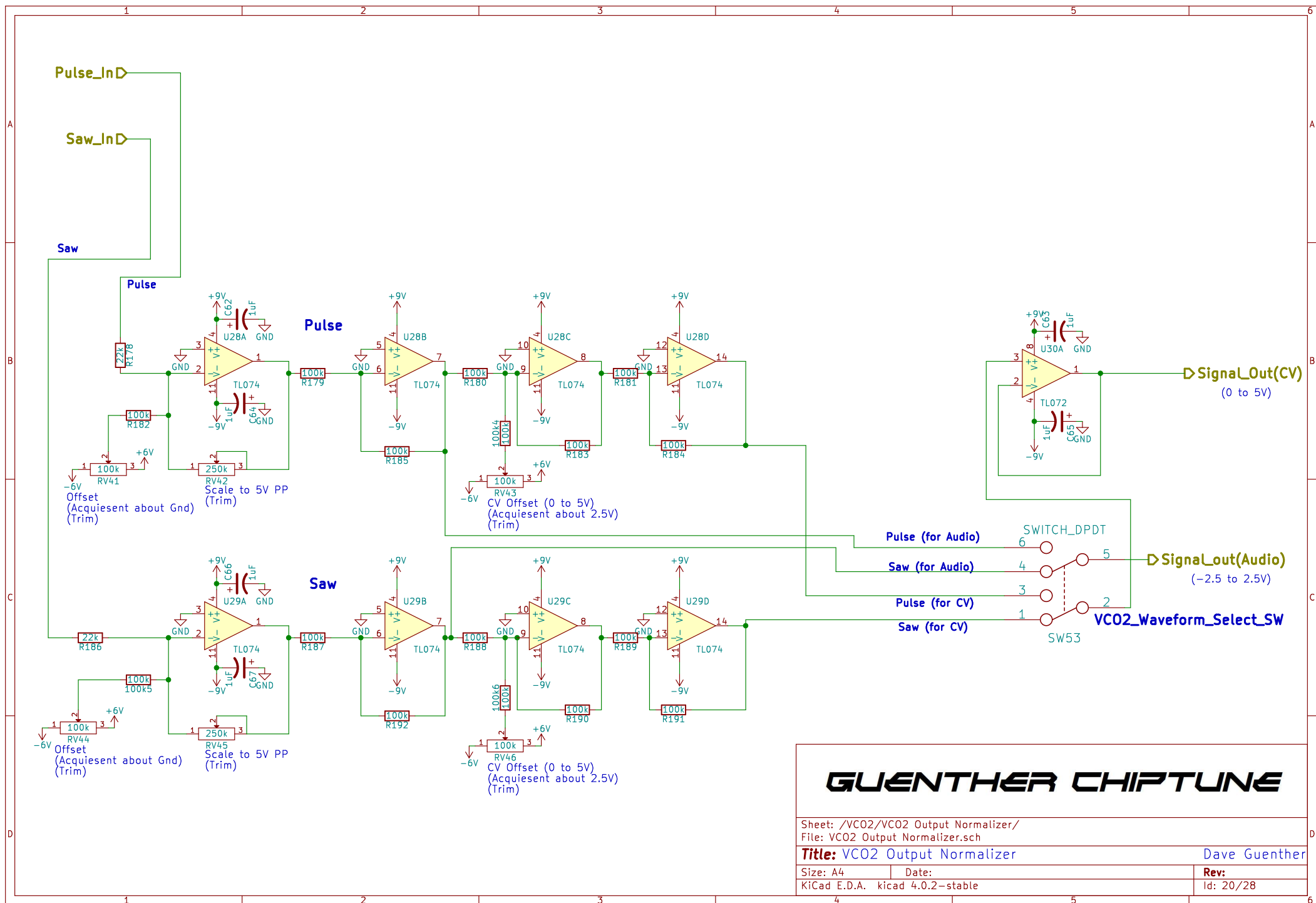
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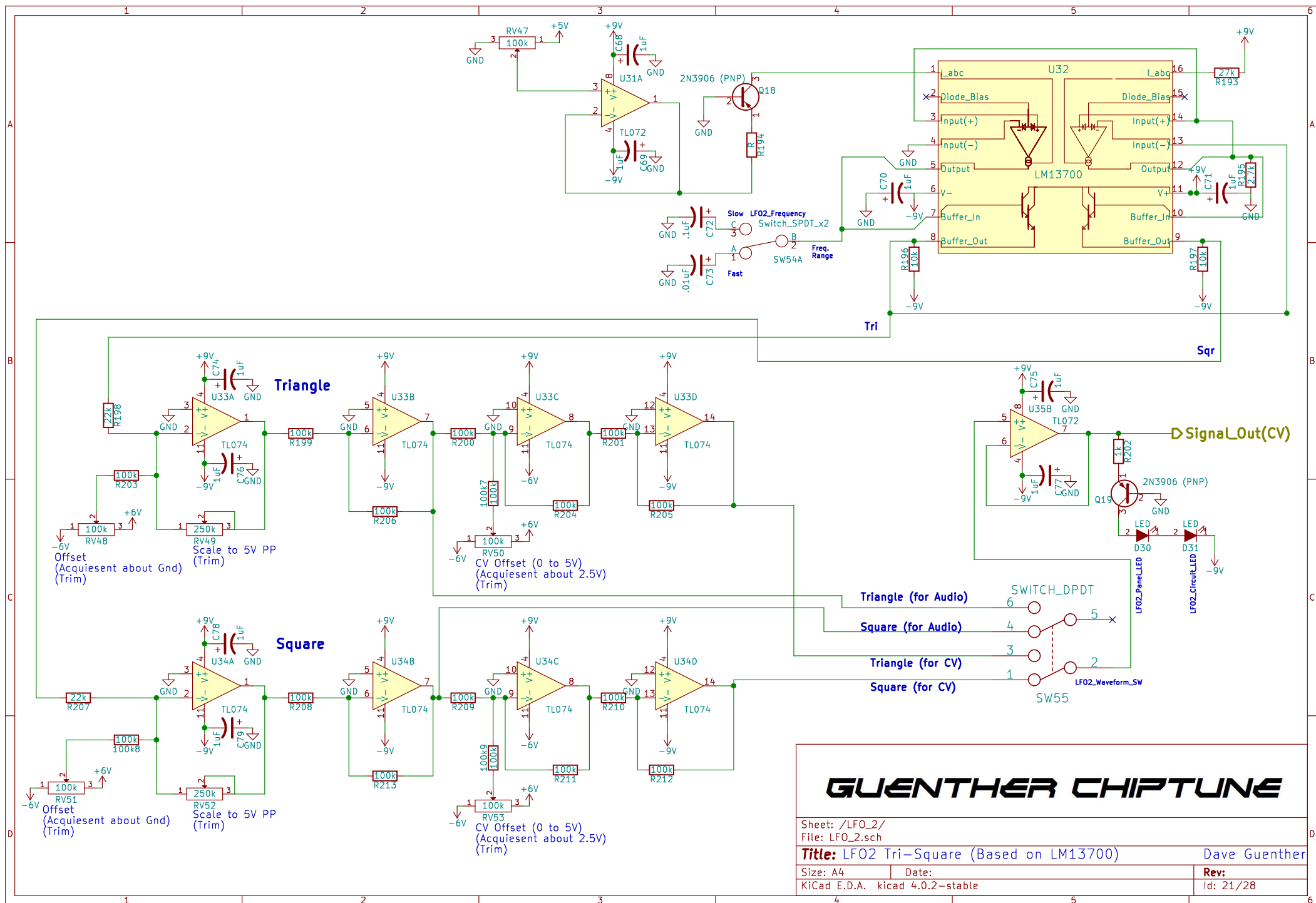
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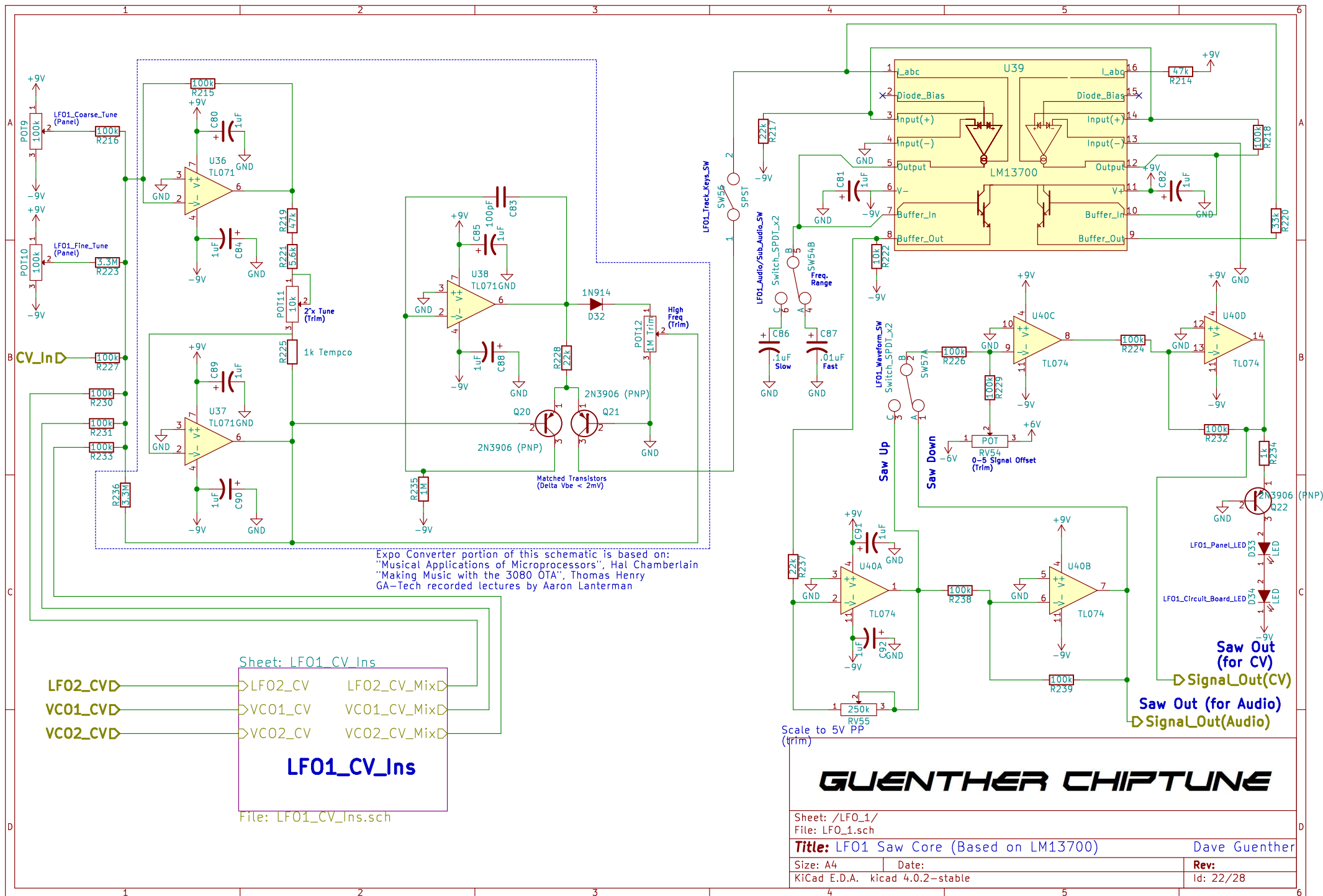


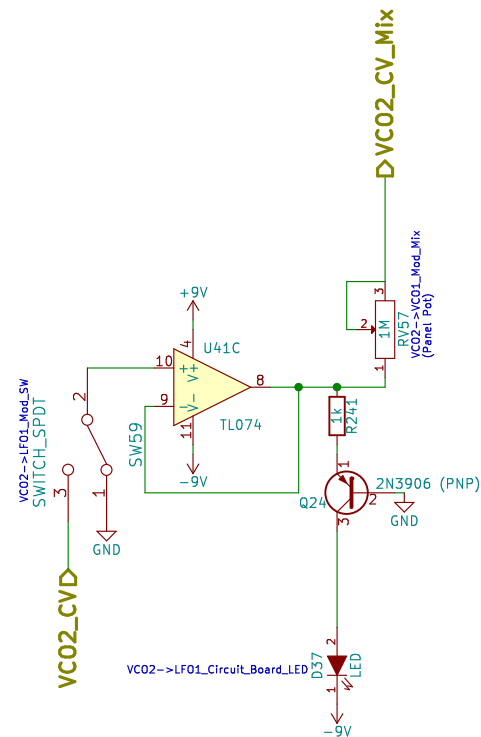
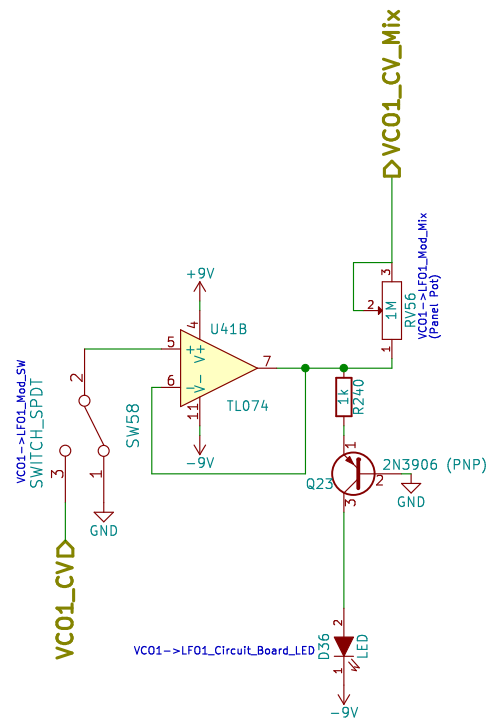
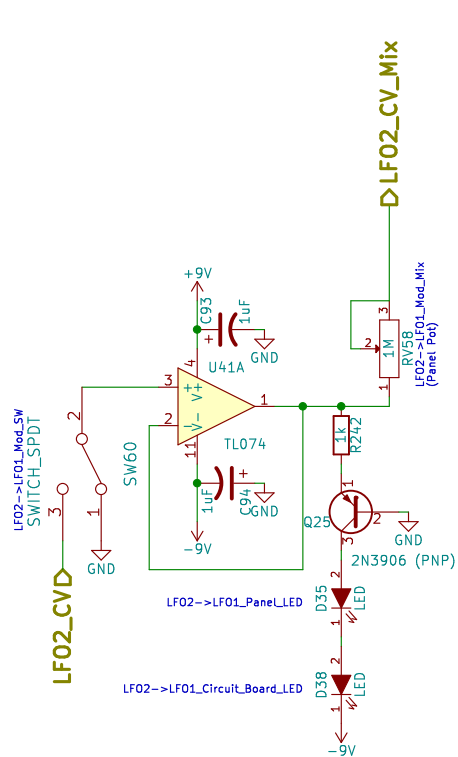












GUENTHER CHIPTUNE

Sheet: /LF01_CV_Ins/
File: LF01_CV_Ins.sch

Title: LF01 CV Input Mixer

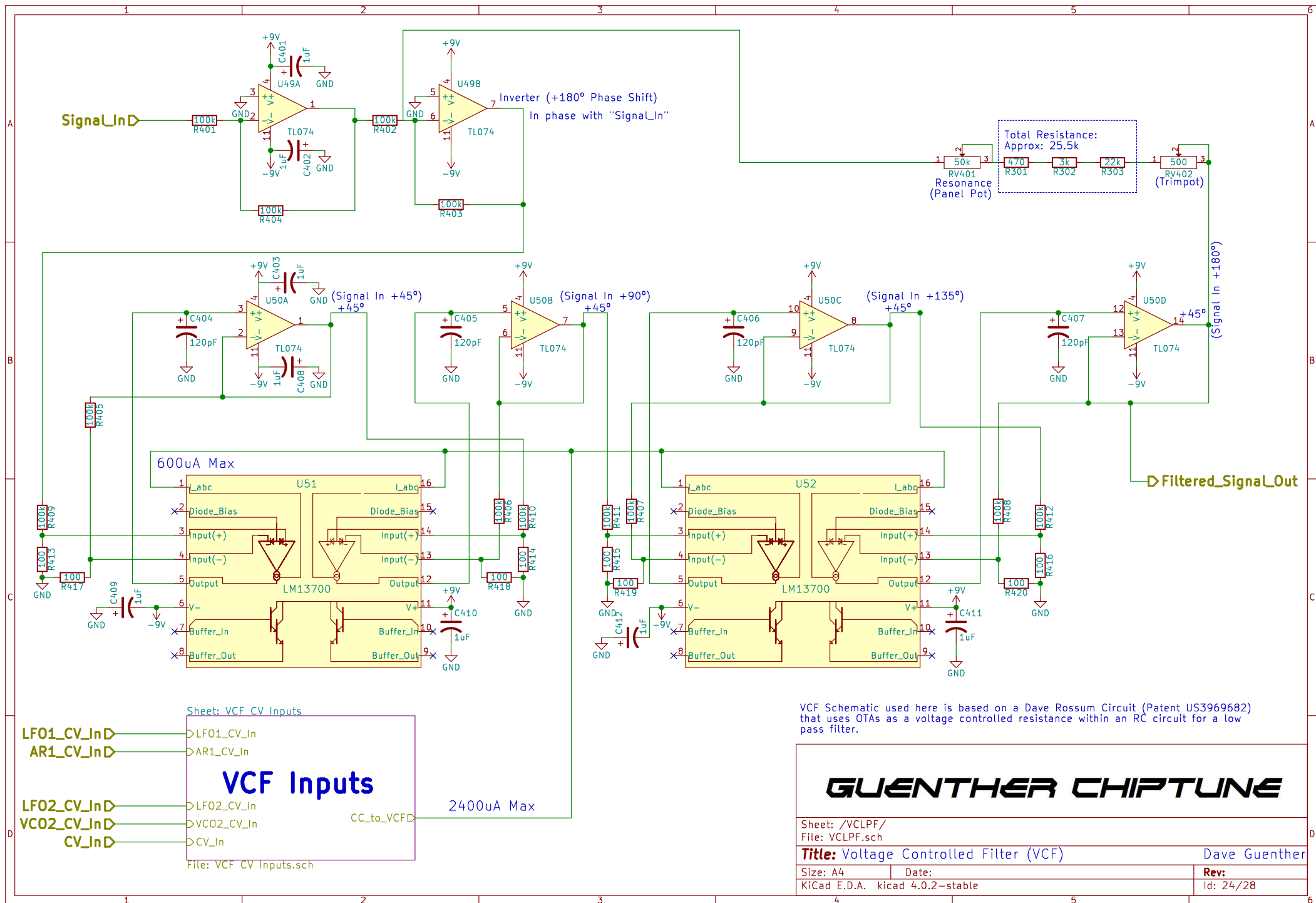
Rev: Dave Guenther

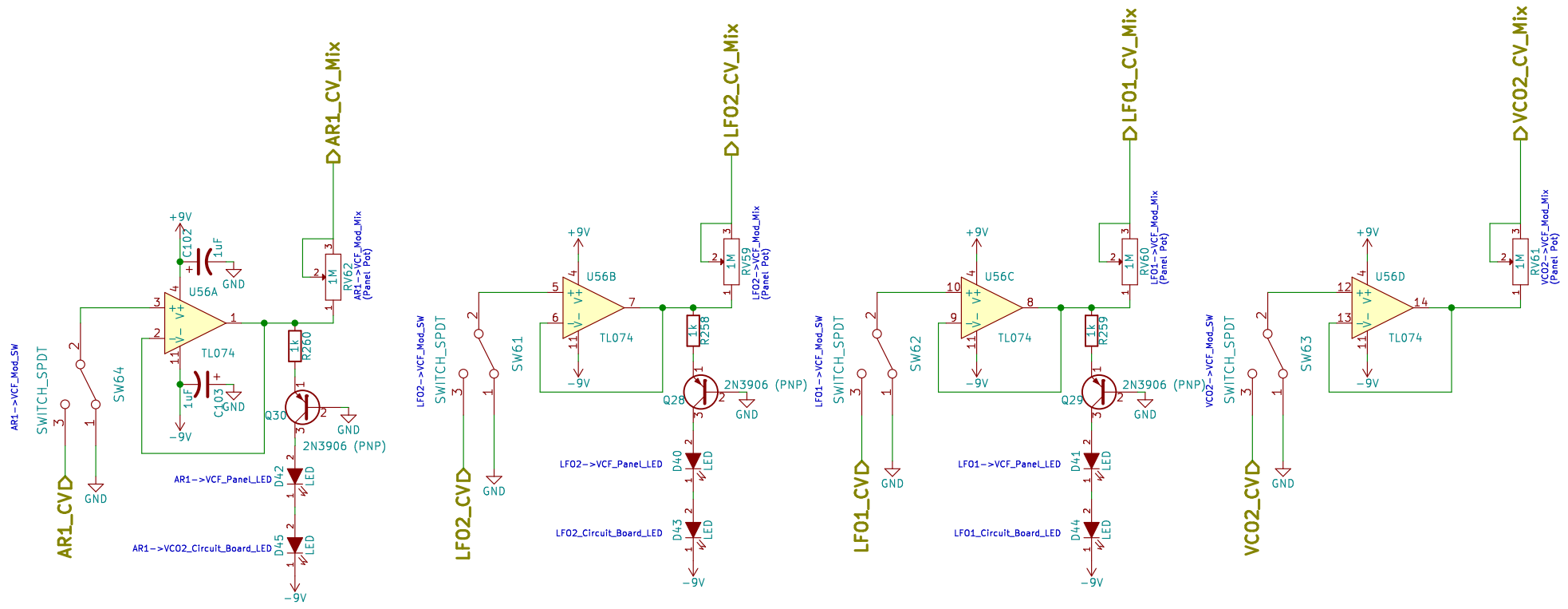
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Date:

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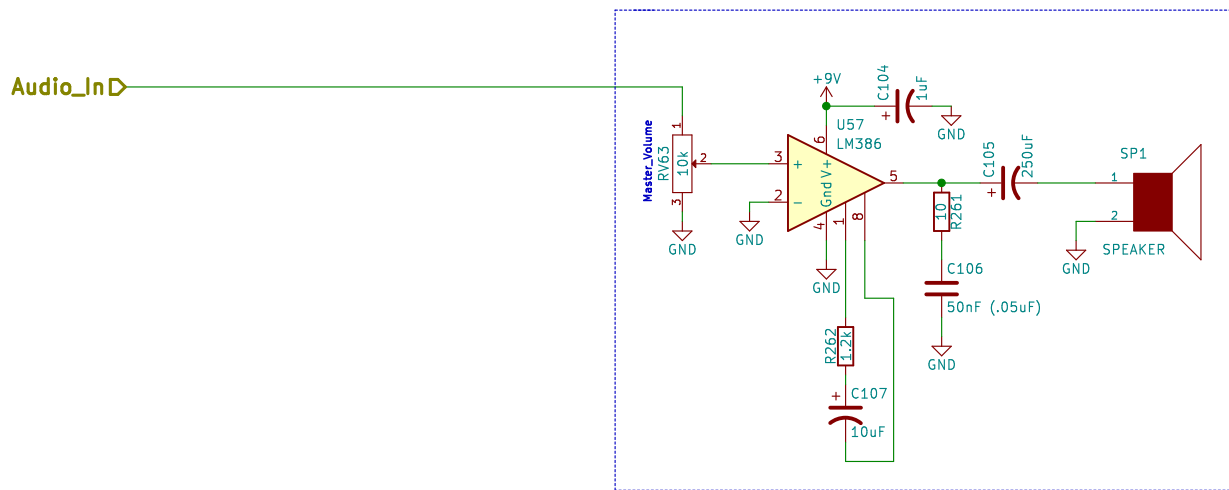
Id: 23/28





GUENTHER CHIPTUNE

Sheet: /VCLPF/VCF CV Inputs/VCF Input Mixer/ File: VCF Input Mixer.sch	
Title: VCF Input Mixer	Dave Guenther
Size: A4	Date:
KiCad E.D.A. kicad 4.0.2--stable	Rev: Id: 26/28



The Power Amplifier circuit was located on the Internet via Youtube.
Not my original work. Unfortunately I cannot locate the source.

GUENTHER CHIPTUNE

Sheet: /Audio_Amplifier/
File: file583D1674.sch

Title: Power Audio Amplifier

Dave Guenther

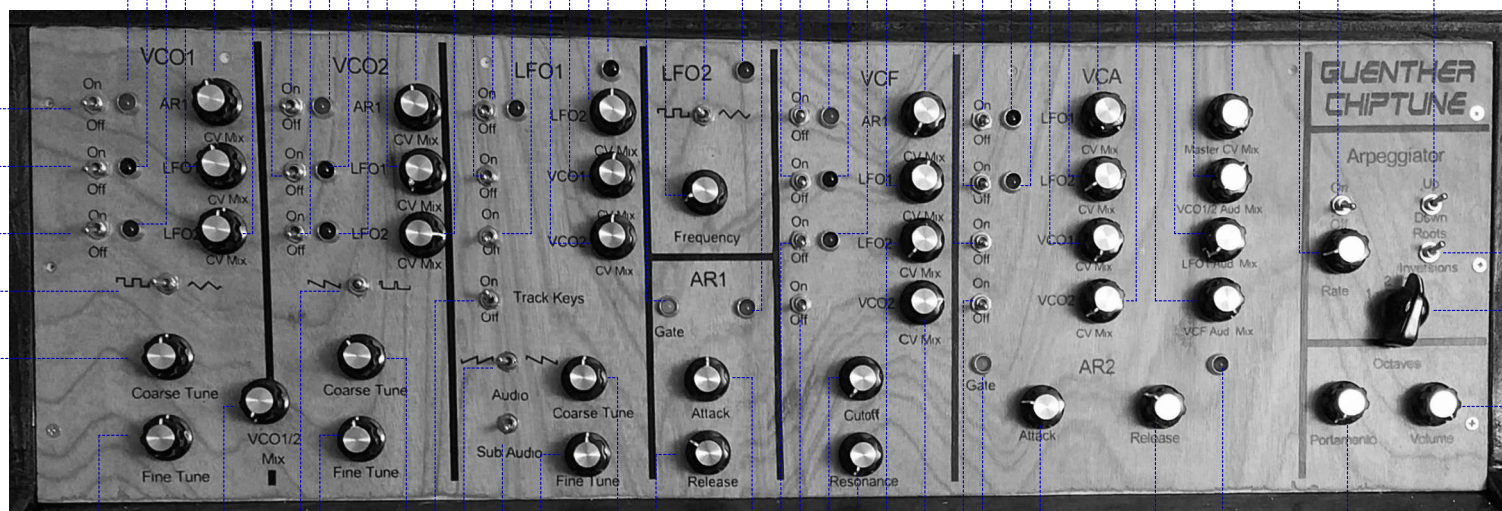
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Date:

Rev:

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Id: 27/28



GUENTHER CHIPTUNE

Sheet: /Front Panel/
File: Front Panel.sch

Title: Chiptune Front Panel Design

Dave Guenther

Size: A4

Date:

Rev:

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