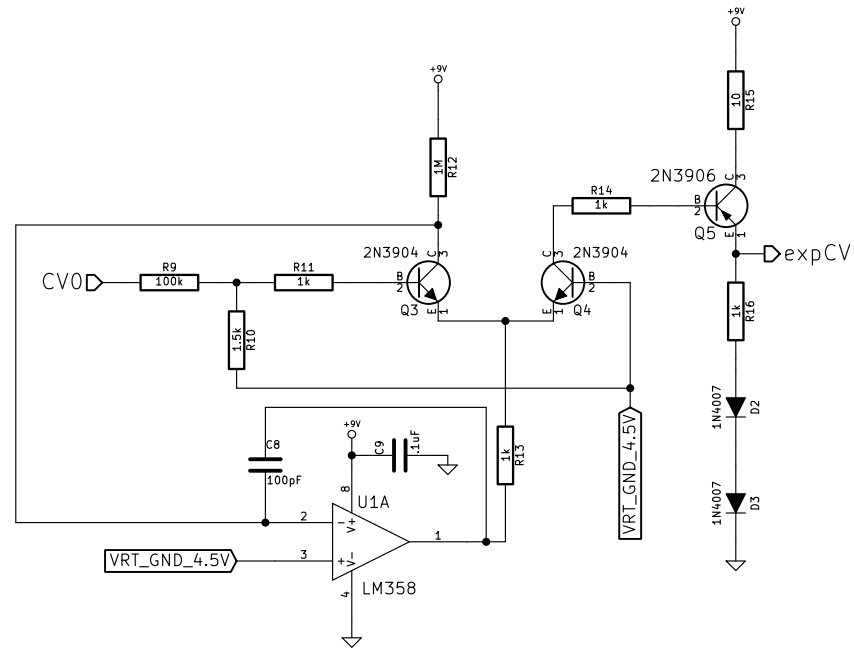
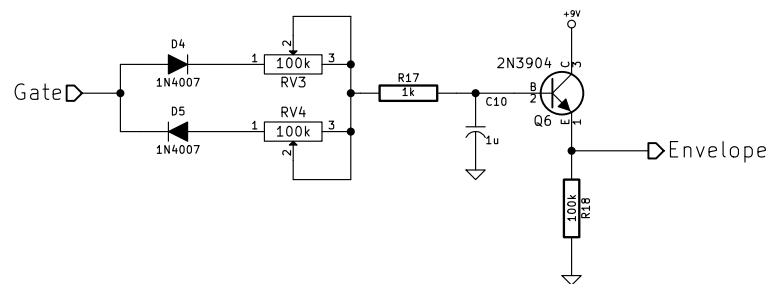


## Linear To Exponential Stage



Benjamin Havey <>  
 Christopher Woodall <cwoodall@bu.edu>  
 Boston University ECE  
 File: lin\_to\_exp.sch  
 Sheet: /LinearToExponential/  
 Title: EC412 Analog Audio Synthesizer  
 Size: USLetter Date: 28 apr 2013  
 KiCad E.D.A.

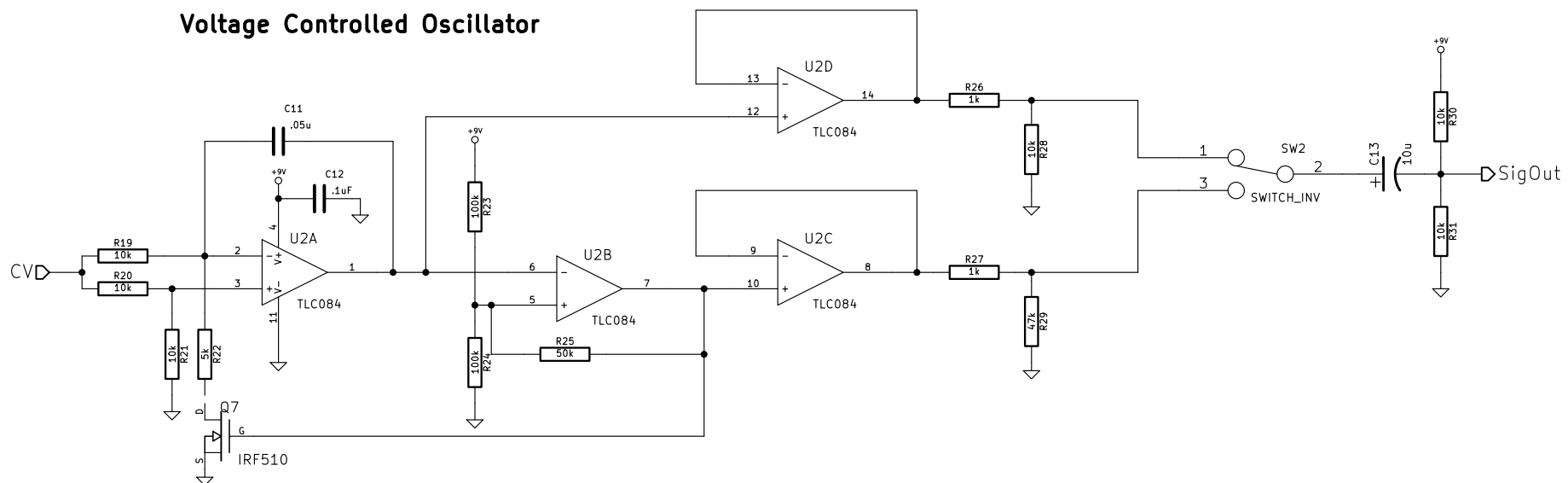
Rev: A  
 Id: 2/7



Benjamin Havey <>  
 Christopher Woodall <cwoodall@bu.edu>  
 Boston University ECE  
 File: ar\_envelope\_generator.sch  
 Sheet: /AREnvelopeGenerator/  
 Title: EC412 Analog Audio Synthesizer  
 Size: USLetter Date: 28 apr 2013  
 KiCad E.D.A.

Rev: A  
 Id: 3/7

## Voltage Controlled Oscillator



Benjamin Havey <>  
Christopher Woodall <cwoodall@bu.edu>  
Boston University ECE

File: vco.sch

Sheet: /VoltageControlledOscillator/

Title: EC412 Analog Audio Synthesizer

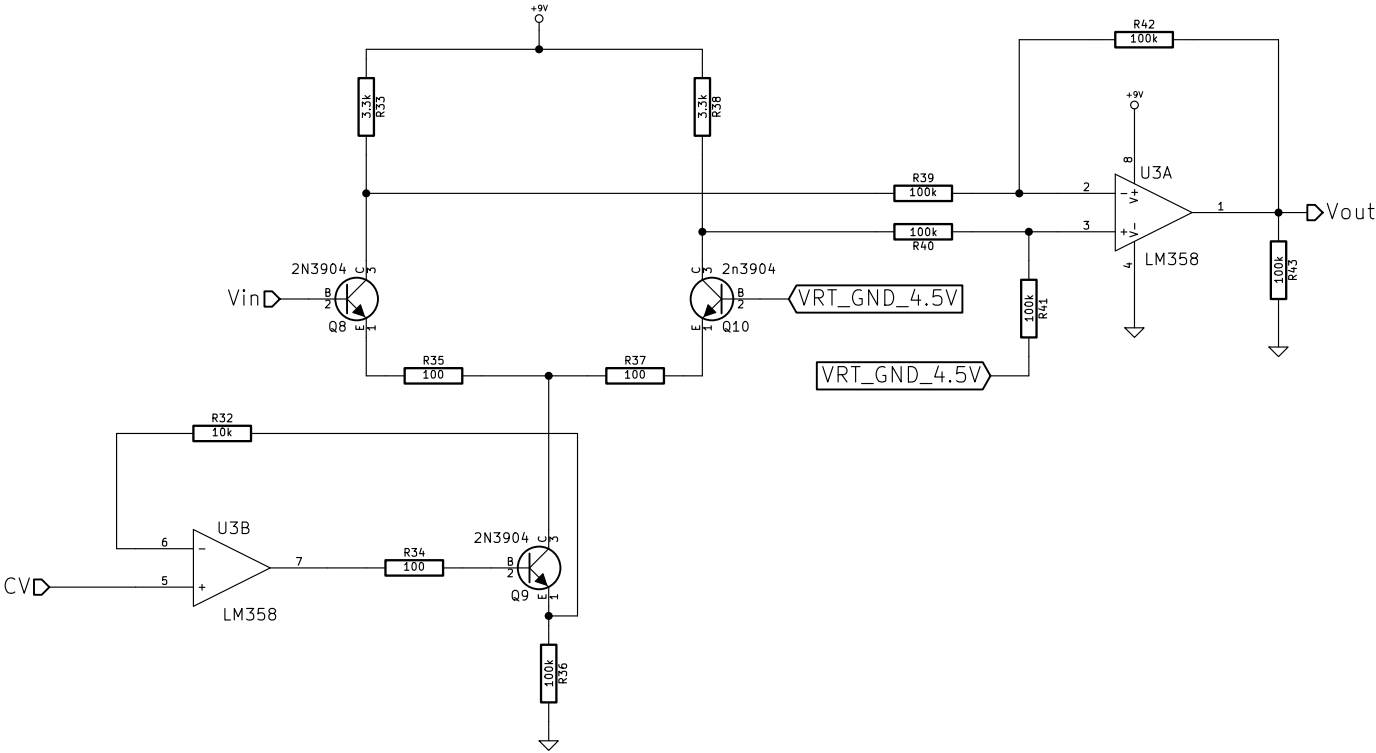
Size: USLetter Date: 28 apr 2013

KiCad E.D.A.

Rev: A

Id: 4/7

Voltage Controlled Amplifier (Variable Transconductance Amplifier)

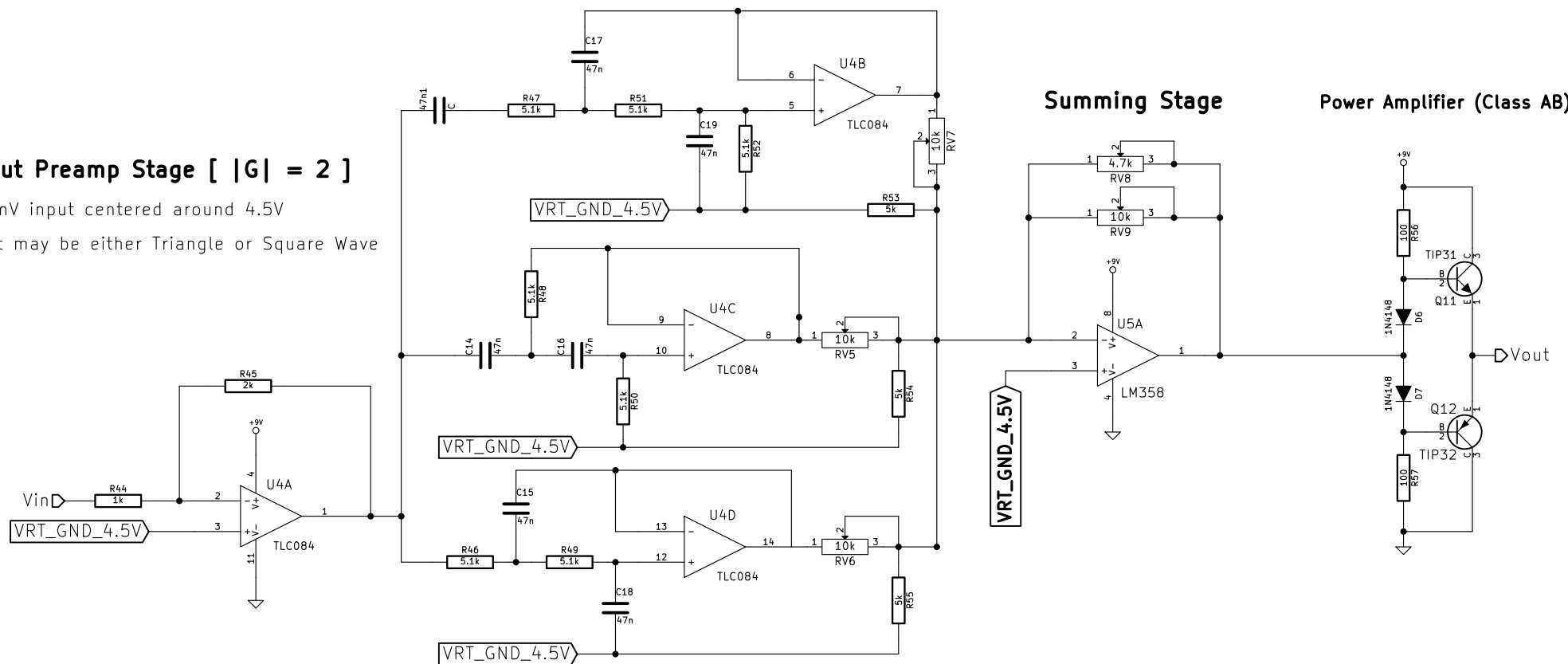


File: vca.sch		
Sheet: /VoltageControlledAmplifier/		
Title:		
Size: A4	Date: 28 apr 2013	Rev:
KiCad E.D.A.		Id: 5/7

## Input Preamp Stage [ $|G| = 2$ ]

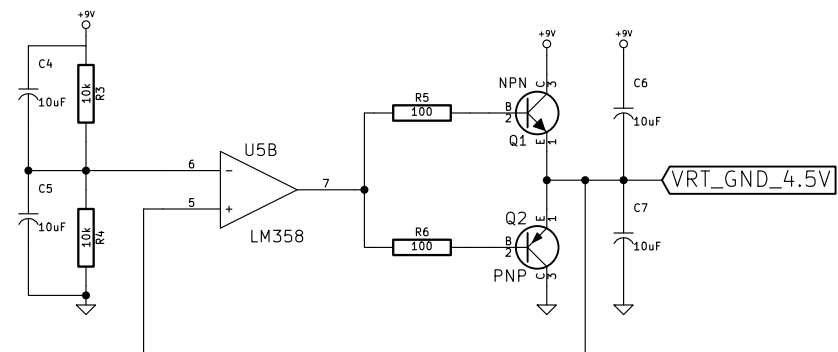
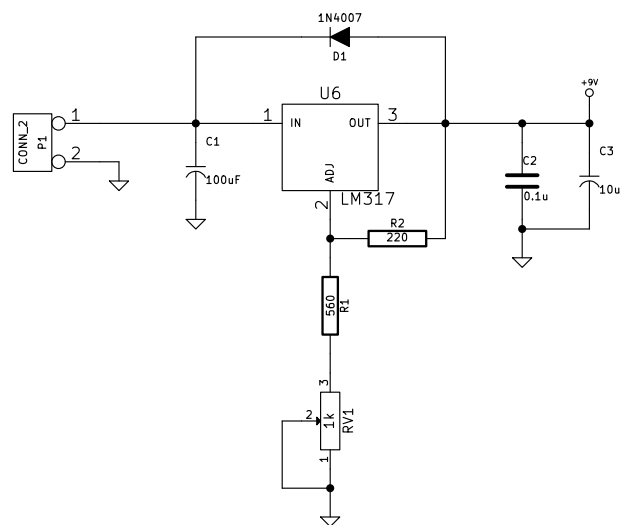
200mV input centered around 4.5V

Input may be either Triangle or Square Wave



## Filter Stage (Low Pass, High Pass, Band Pass)

File: filters.sch		
Sheet: /FilterStage/		
Title:		
Size: A4	Date: 28 apr 2013	Rev:
KiCad E.D.A.		Id: 6/7



Benjamin Havey <>  
Christopher Woodall <cwoodall@bu.edu>  
Boston University ECE

File: power.sch

Sheet: /Power/

Title: EC412 Analog Audio Synthesizer

Size: USLetter Date: 28 apr 2013

KiCad E.D.A.

Rev: A

Id: 7/7