

bus

File: bus.kicad\_sch

VDP

File: VDP.kicad\_sch

GAL

File: GAL.kicad\_sch

IO

File: IO.kicad\_sch

Amplifier

File: Amplifier.kicad\_sch

power

File: power.kicad\_sch

PSG

File: PSG.kicad\_sch

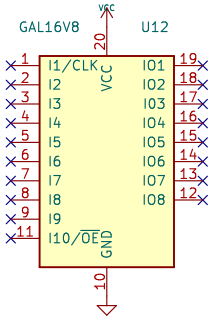
buffers

File: buffers.kicad\_sch

ACR

File: ACR.kicad\_sch

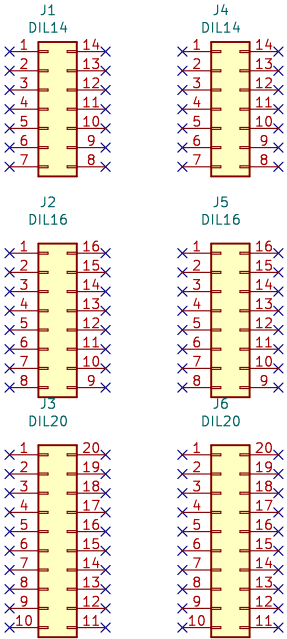
SPARE GAL FOR  
DEBUGGING



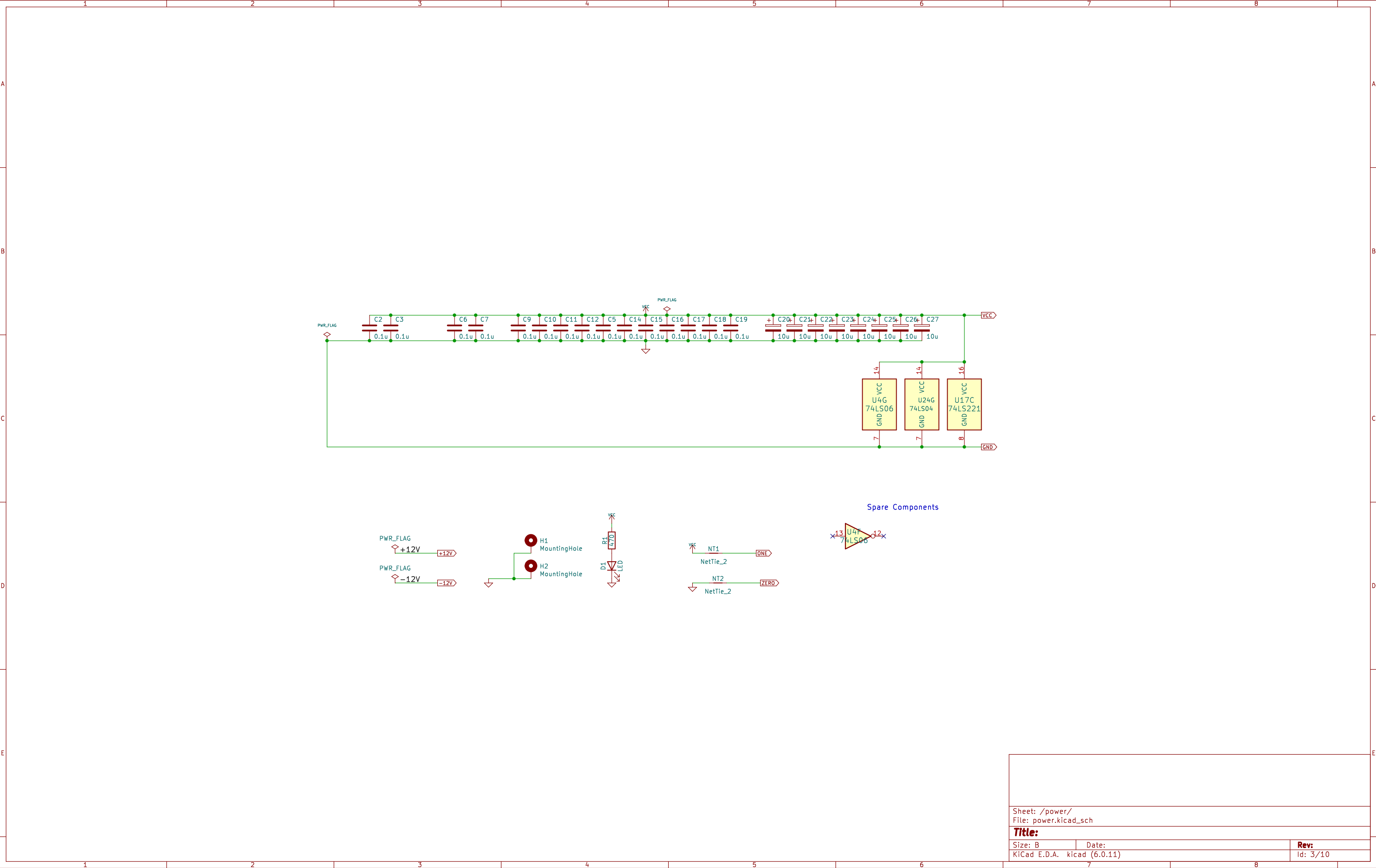
THROUGH HOLES FOR  
PATCH WIRE ROUTING  
ACROSS SIDES

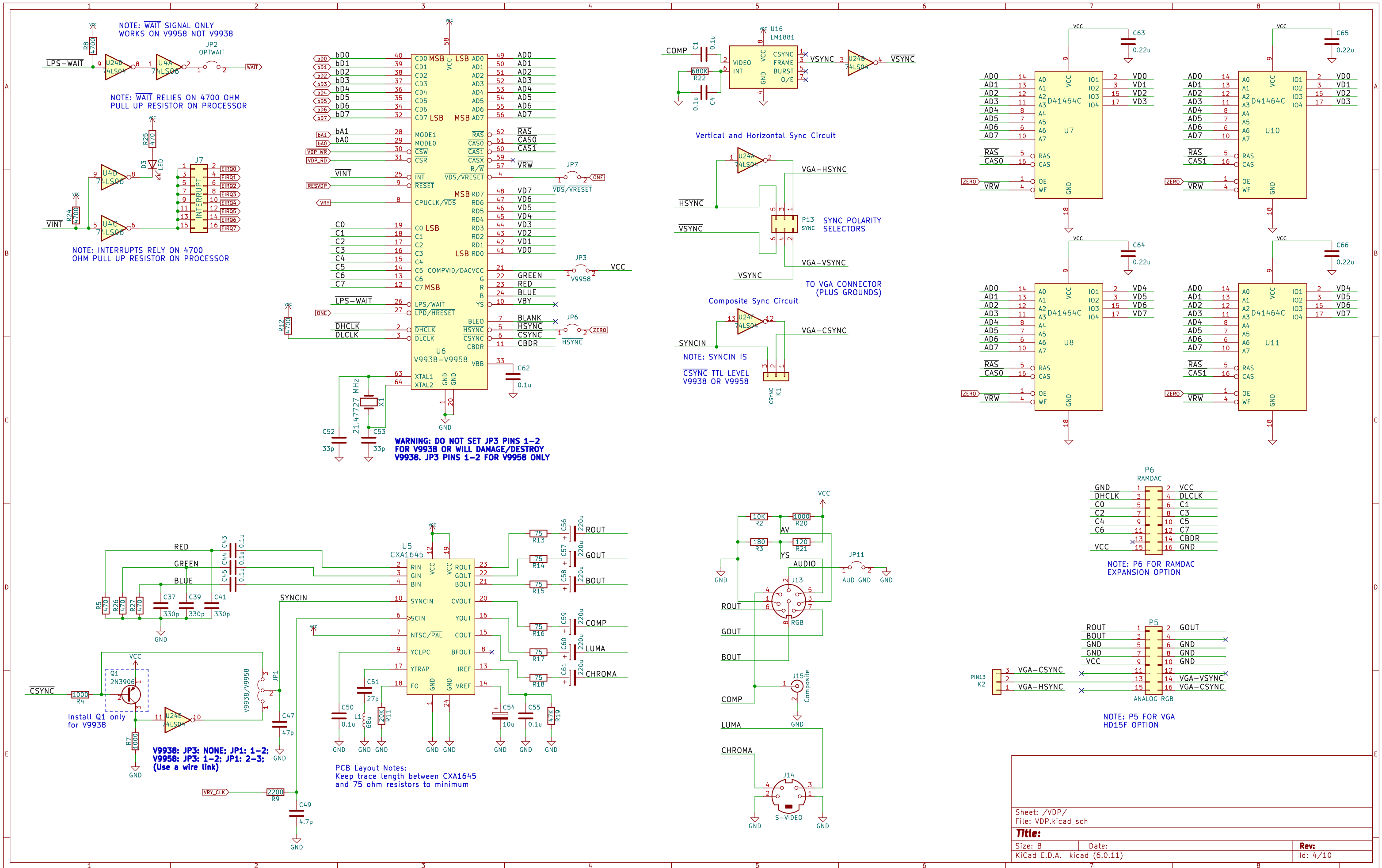
- H3 MountingHole
- H4 MountingHole

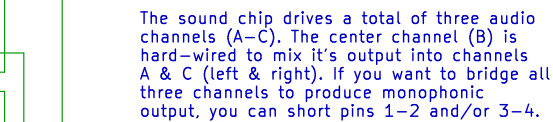
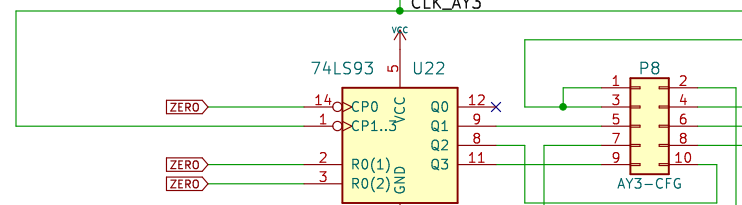
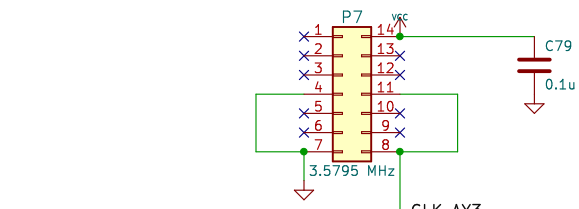
SPARE SOCKETS  
FOR DEBUGGING





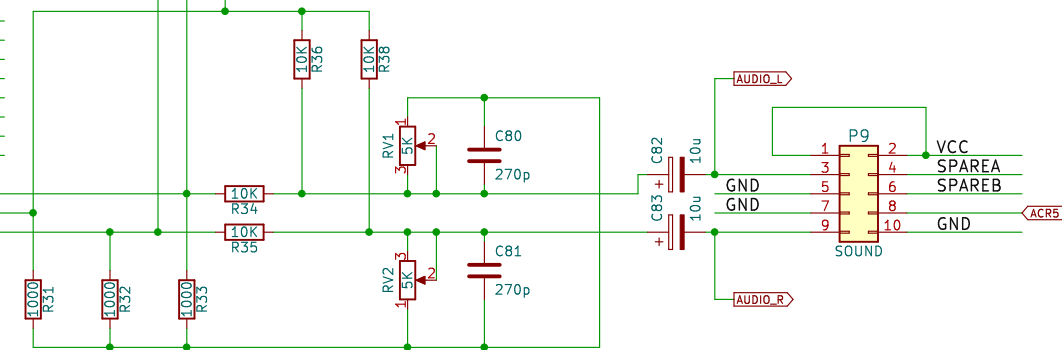
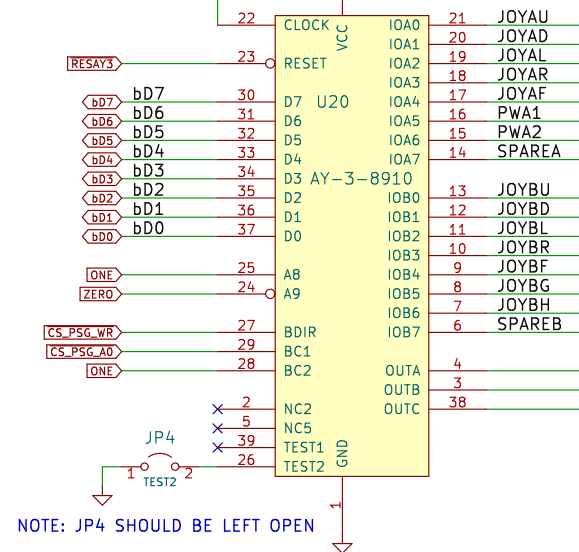




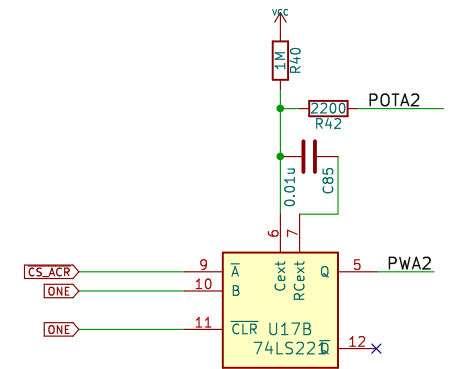
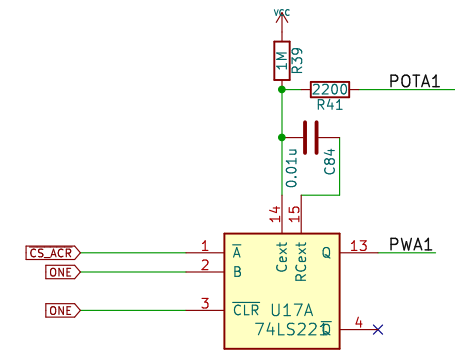


- \* 5-7: Audio Oscillator / 2  
7-9: Audio Oscillator / 8  
6-8: Audio Oscillator / 1  
8-10: Audio Oscillator / 4

You must short one (and only one) set of pins above. These pins allow scaling the audio chip oscillator input. The default configuration is 1/2 scaling with an oscillator frequency of 3.5795 Mhz which is the MSX compatible frequency. The maximum frequency allowed by the AY-3-8910 chip is 2.0000 Mhz. Incorrect setting of the oscillator frequency will result in distorted sound output.



RV1 and RV2  
Potentiometer  
Bourns 3386P  
5K ohm

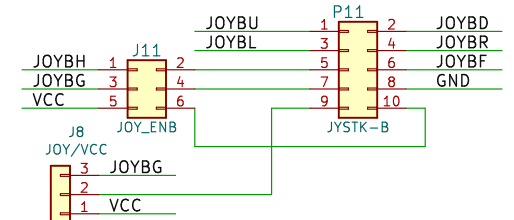
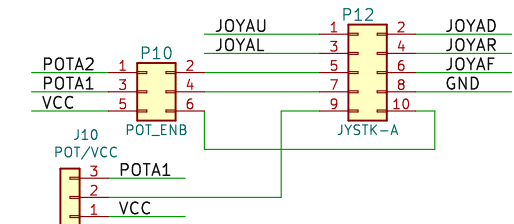


ATARI joystick	MSX joystick
1:U	1:U
2:D	2:D
3:L	3:L
4:R	4:R
5:N/C	5:N/C
6:B1	6:B1
7:N/C	7:B2
8:GND	8:GND
9:B2	9:VCC

## JOYSTICK PORTS



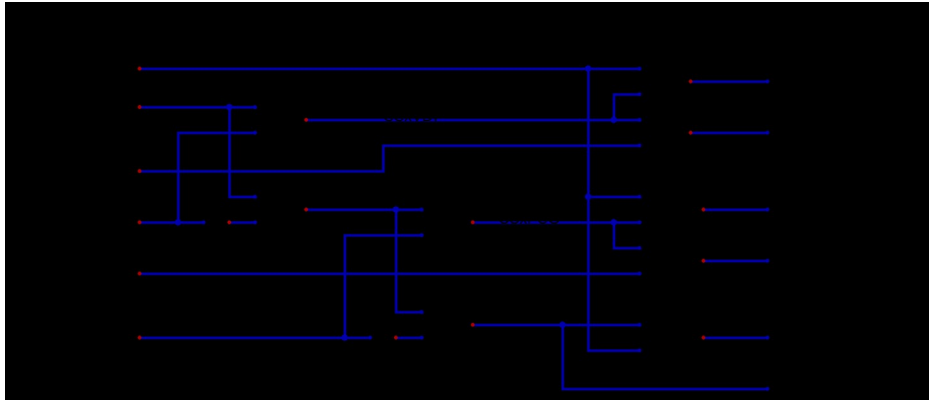
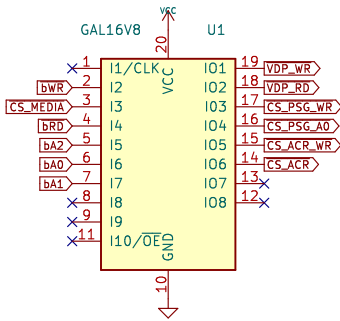
U=JOYAU  
D=JOYAD  
L=JOYAL  
R=JOYAR  
B1=JOYAF  
B2=POTA1  
B3=POTA2



DEFINITIONS JOY B

U=JOYBU  
D=JOYBD  
L=JOYBL  
R=JOYBR  
B1=JOYBF  
B2=JOYBG  
B3=JOYBH

MEDIA CS GAL16V8



Sheet: /GAL/  
File: GAL.kicad\_sch

**Title:**

Size: B

Date:

KiCad E.D.A. kicad (6.0.11)

**Rev:**

Id: 6/10

