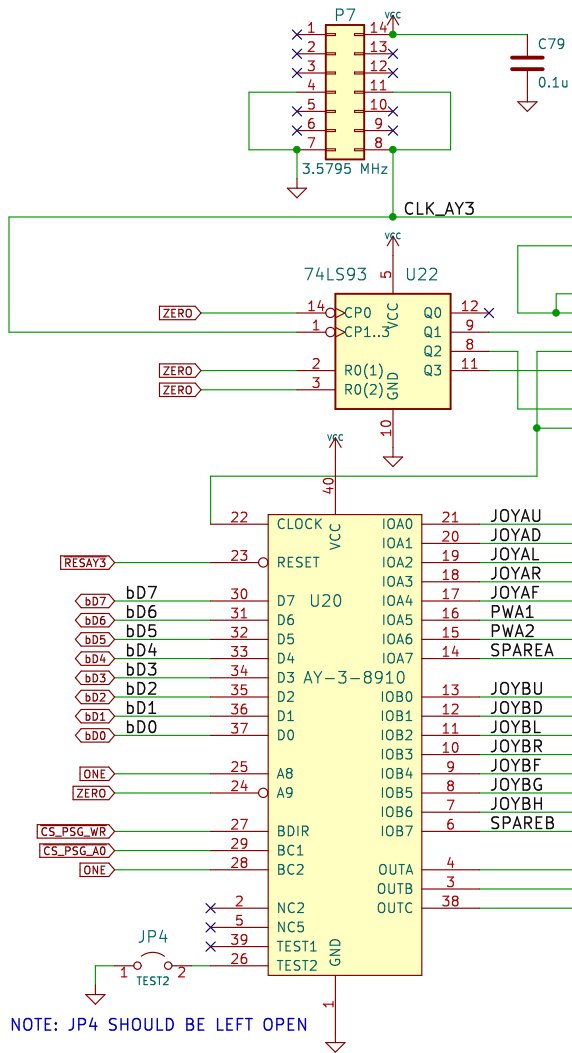


NOTE: AY-3-8910 CLOCK IS MSX
COMPATIBLE 3.5795 MHz / 2
MAXIMUM CLOCK IS 2.0000 MHz



NOTE: JP4 SHOULD BE LEFT OPEN

P8: Sound Config

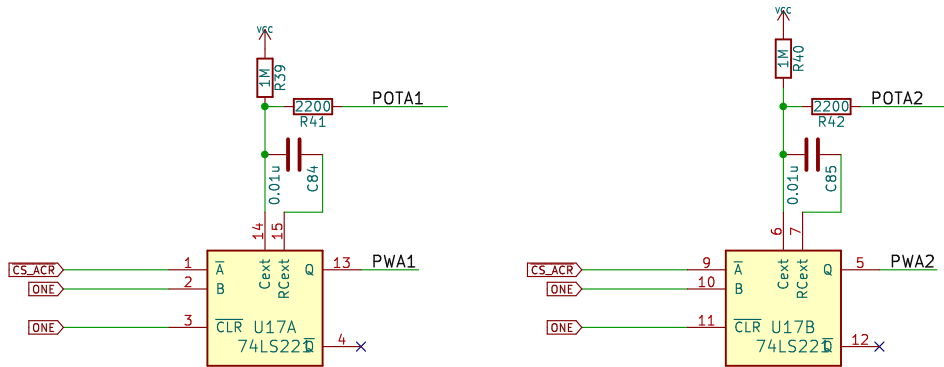
- 1-2: All channels merged onto channel C
- 3-4: All channels merged onto channel A

The sound chip drives a total of three audio channels (A-C). The center channel (B) is hard-wired to mix it's output into channels A & C (left & right). If you want to bridge all three channels to produce monophonic output, you can short pins 1-2 and/or 3-4.

- * 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

- 1:U
- 2:D
- 3:L
- 4:R
- 5:N/C
- 6:B1

MSX joystick

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

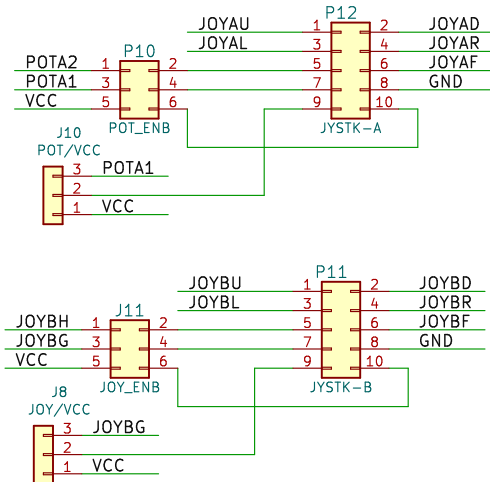
JOYSTICK PORTS

DEFINITIONS JOY A

- 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



Sheet: /PSG/

File: PSG.kicad_sch

Title:

Size: B

Date:

KiCad E.D.A. kicad (6.0.11)

Rev:

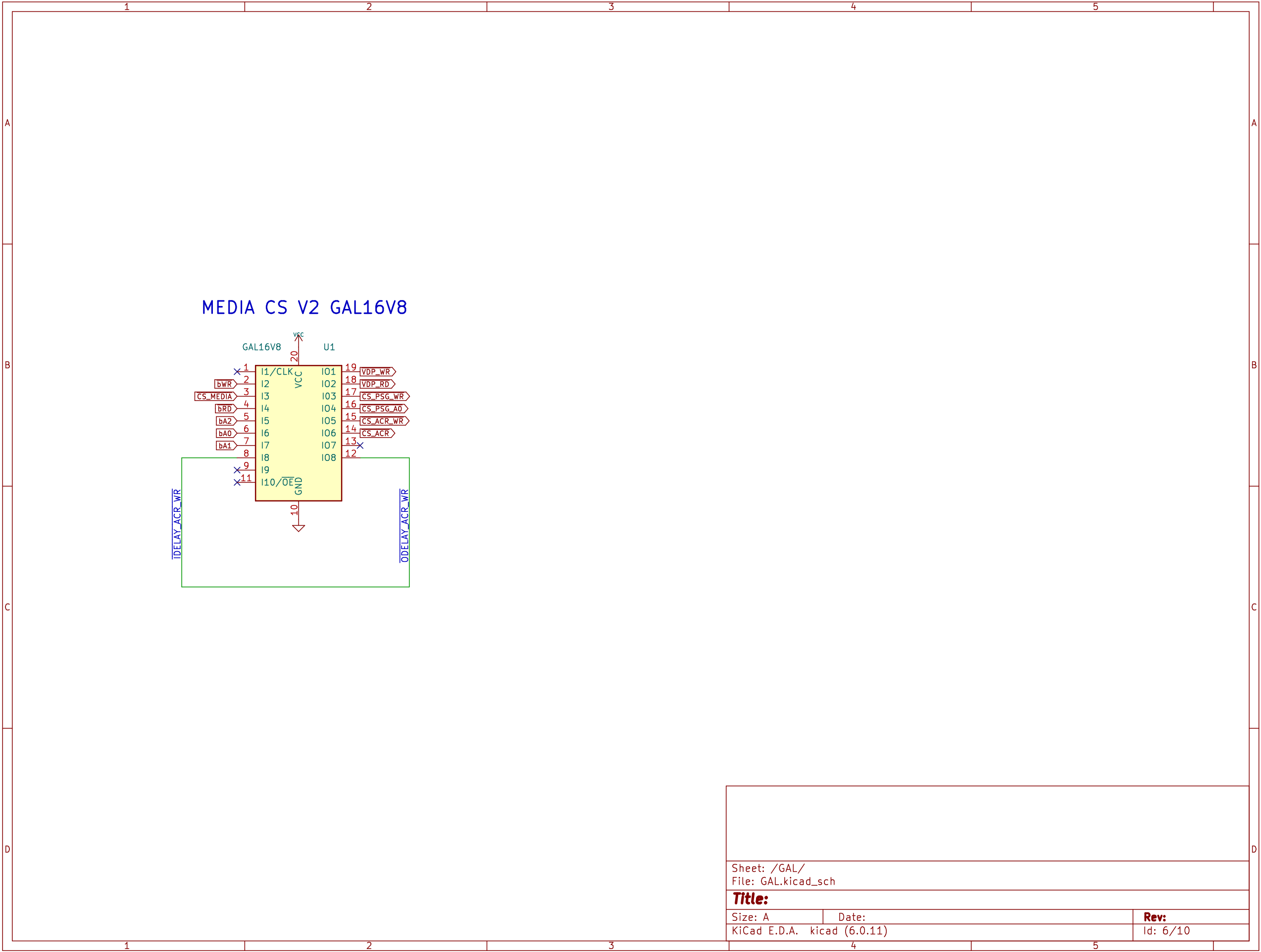
Id: 5/10

A schematic diagram of a GAL16V8 device (U1) configured as a media control logic circuit. The device is shown with its pinout and connections.

The title bar indicates the sheet is A, file is GAL.kicad_sch, and the revision is 6/10.

The schematic shows the following connections:

- VCC**: Pin 20 connected to VCC.
- GND**: Pin 10 connected to GND.
- I/O Pins**: Pins 1 through 19 are labeled with their functions:
 - Pins 1-11: I/O pins 1 through 11.
 - Pins 12-19: I/O pins 12 through 19.
- Control Signals**:
 - bWR**: Connected to pin 2.
 - CS_MEDIA**: Connected to pin 3.
 - bRD**: Connected to pin 4.
 - bA2**: Connected to pin 5.
 - bA0**: Connected to pin 6.
 - bA1**: Connected to pin 7.
 - IDELAY_ACR_WR**: Connected to pin 9.
 - ODELAY_ACR_WR**: Connected to pin 12.
 - VDP_WR**: Connected to pin 19.
 - VDP_RD**: Connected to pin 18.
 - CS_PSG_WR**: Connected to pin 17.
 - CS_PSG_A0**: Connected to pin 16.
 - CS_ACR_WR**: Connected to pin 15.
 - CS_ACR**: Connected to pin 14.

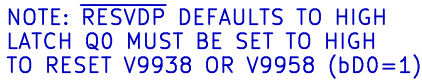


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Size: A	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 6/10

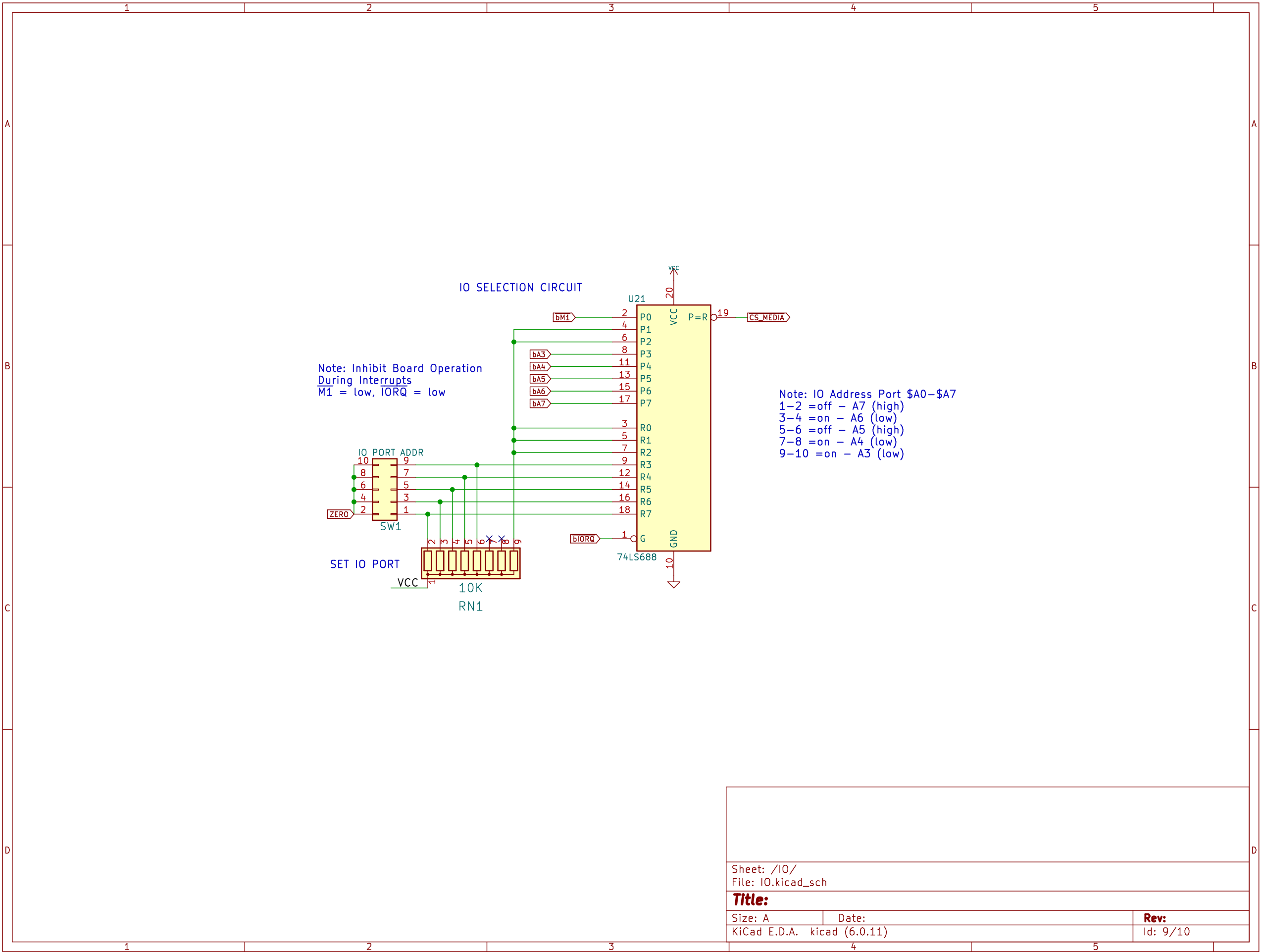
Size: A	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 6/10

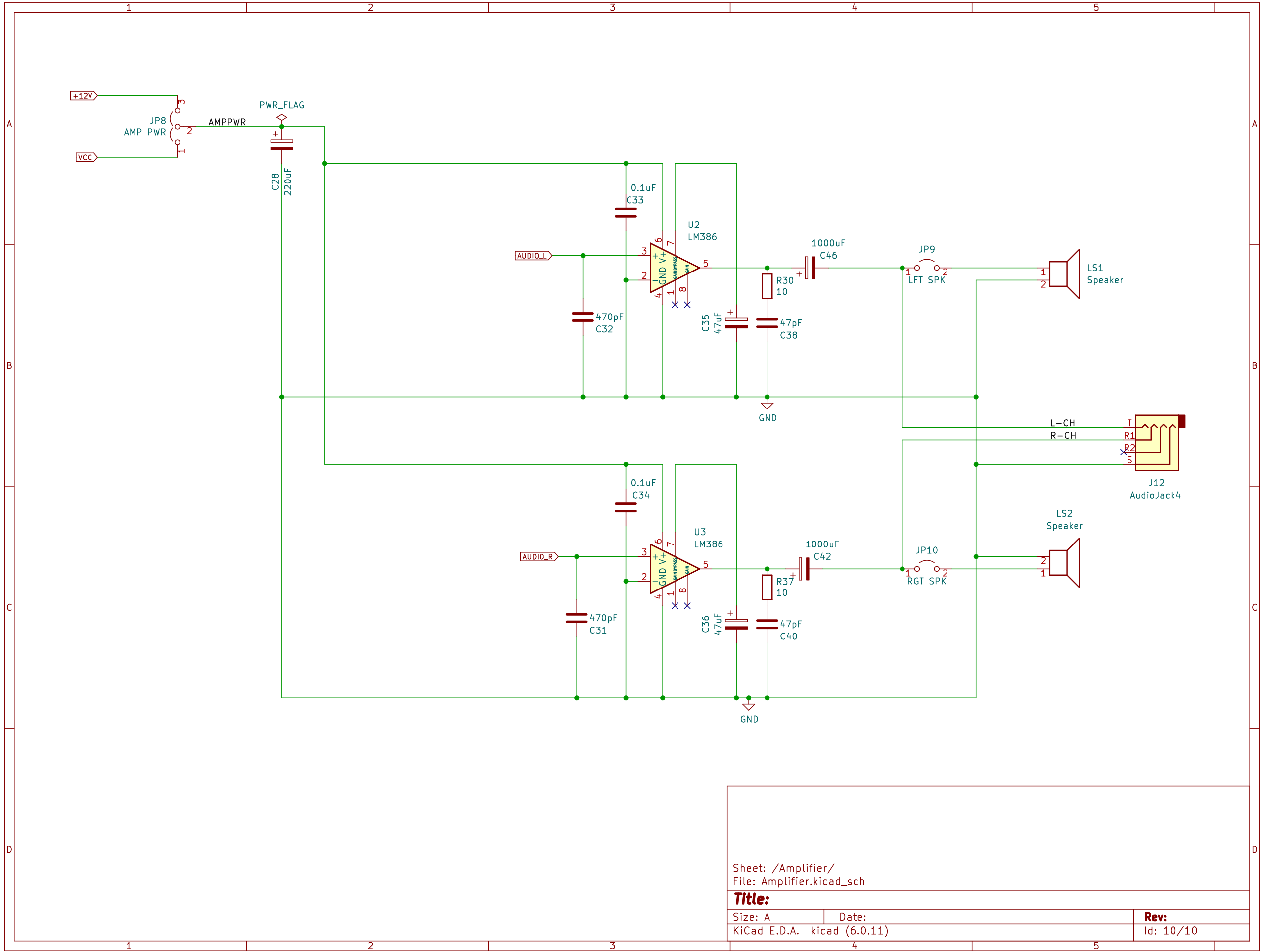
Size: A	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 6/10

Size: A	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 6/10



Sheet: /ACR/ File: ACR.kicad_sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (6.0.11)		Id: 8/10





Sheet: /Amplifier/
File: Amplifier.kicad_sch

Title:

Size: A
KiCad E.D.A. kicad (6.0.11)

Date:

Rev:

Id: 10/10