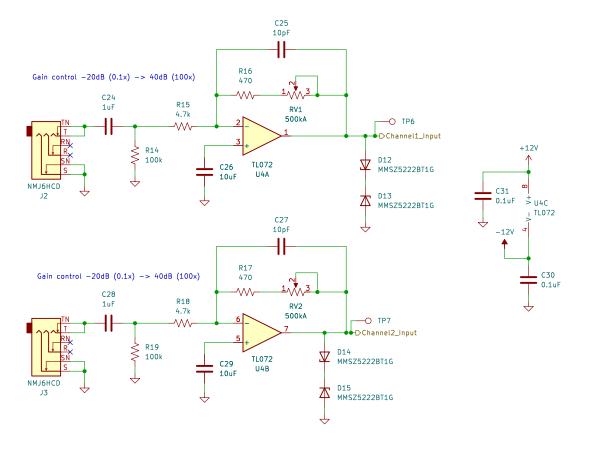


### Two Channels of Audio Input



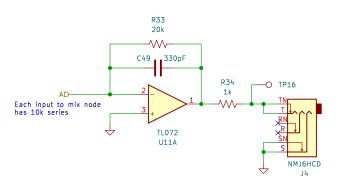
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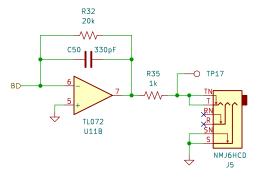
Title: Quadrophonic Joystick Mixer
Size: B Date: 2024-04-22
KiCad E.D.A. kicad 7.0.8 **Rev: P1** Id: 2/8

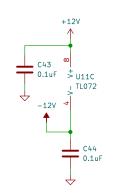
# Digital Pots +3.3V C37 1uF U6A TL072 D16 BZT52C4V7-13-F R44 10k -///-R28 100k R25 10k R45 10k **-**VVV-R29 100k VDD is mid-supply for bias +3.3V +3.3V U10A TL072 R30 100k R26 ×4 NC DS1881Z-050+ R31 100k Sheet: /Channel 1 Digital Pots/ File: digitalPot.kicad\_sch Title: Quadrophonic Joystick Mixer Size: B Date: 2024-04-22 KiCad E.D.A. kicad 7.0.8 **Rev: P1** Id: 3/8

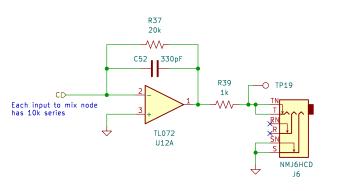
# Digital Pots +3.3V C55 1uF U14A TL072 D17 BZT52C4V7-13-F R49 10k -U14B TL072 100k -\\\-R53 VDD is mid-supply for bias +3.3V +3.3V U17 U16A TL072 R58 100k R59 ×4 NC DS1881Z-050+ Sheet: /Channel 2 Digital Pots/ File: digitalPot.kicad\_sch Title: Quadrophonic Joystick Mixer Size: B Date: 2024-04-22 KiCad E.D.A. kicad 7.0.8 **Rev: P1** Id: 4/8

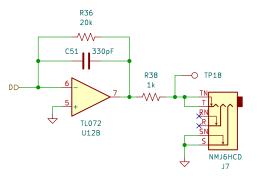


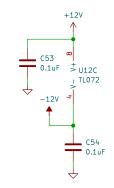












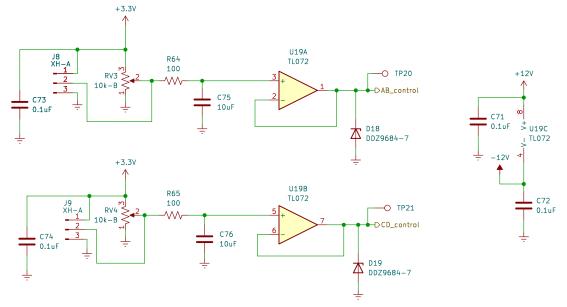
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File: audioOutput.kicad\_sch

Title: Quadrophonic Joystick Mixer

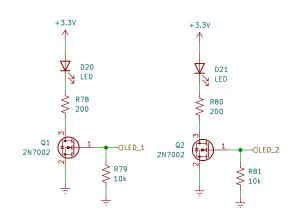
Size: B Date: 2024-04-22

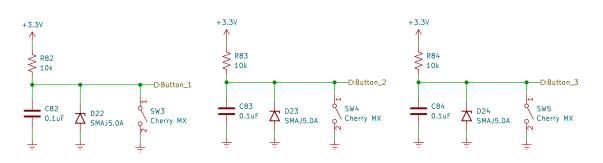
KiCad E.D.A. kicad 7.0.8 **Rev: P1** Id: 5/8

### User Interface Ins and Outs



			+3.3V
if voltage is less than	the channel is	1% resistor value	SW2 Stompbox 1P8T Rotary ps 2 4 471
0.428 V	1	1.43 kOhm	1 R02 1.43k
0.847 V	2	3.32 kOhm	R72 10k 2 R63 3 R73 6.04k
1.274 V	3	6.04 kOhm	4 R74 VV 10k
1.683 V	4	10.00 kOhm	9 5 R75 A A A 16.5k
2.086 V	5	16.50 kOhm	6 R76 AAA 30.1k
2.502 V	6	30.10 kOhm	7 R77 VVV71.5k
2.909 V	7	71.50 kOhm	TP22 0 8 X X X X X X X X X X X X X X X X X X
3.300 V	8	Open	Channel Selection
			C81
			0.1uF
			<u>_</u>
			•

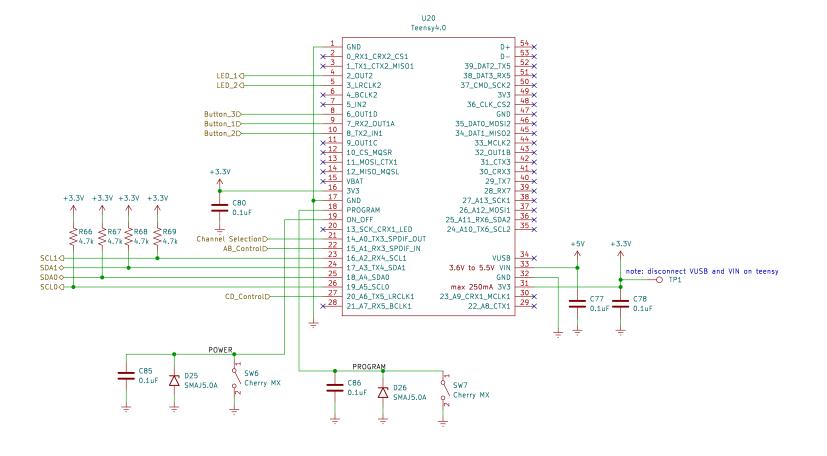




Sheet: /User Interface/ File: userInterface.kicad\_sch

Title: Quadrophonic Joystick Mixer
Size: B Date: 2024-04-22
KiCad E.D.A. kicad 7.0.8

#### Microcontroller



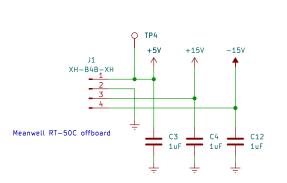
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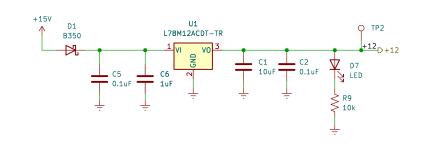
Title: Quadrophonic Joystick Mixer

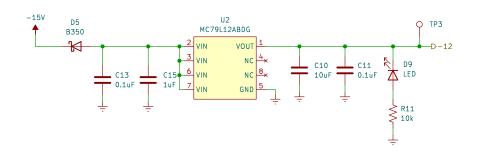
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 Date: 2024-04-22
 Rev: P1

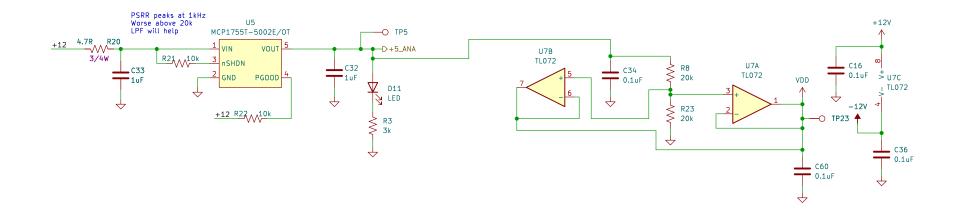
 KiCad E.D.A. kicad 7.0.8
 Id: 7/8

## Power Supplies









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

Title: Quadrophonic Joystick Mixer
Size: B Date: 2024-04-22
KiCad E.D.A. kicad 7.0.8 **Rev: P1** Id: 8/8