

Step	Qty	Reference(s)	Value	Footprint	Note
1	3	R10, R24, R25	1K	1/4W Resistor	output dropper, could go down to 10R
2	3	R26, R27, R28	3K3 or 1K to 10K	1/4W Resistor	LED brightness, 1K is quite bright, 10K would be very dim
3	1	R1	3K3	1/4W Resistor	Vref current supply
4	21	R2, R3, R4, R5, R6, R7, R8, R9, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23	100K	1/4W Resistor	logic - all other resistors
5	7	C1, C5, C6, C7, C10, C11, C12	100n	Cap Disc Ceramic	decoupling
6	3	C4, C8, C9	22pF	Cap Disc Ceramic	opamp stabilization, could use 47pF
7	2	D4, D5	1N5819	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal	
8	1	J11	Euro Power Header	PinHeader_2x05_P2.54mm	prefer shrouded
9	3	U1, U2, U3	TL074	Package_DIP:DIP-14_W7.62mm	http://www.ti.com/lit/ds/symlink/tl071.pdf
10	2	C2, C3	10u	THT:CP_Radial_D5.0mm	power reservoir. FOLD UP
11	1	Q1	LM4040-B10	TO-92 10V ref	http://www.ti.com/lit/ds/symlink/lm4040-n.pdf
12	2	J9, J10	Conn_01x10_Female	PinHeader_1x10_P2.54mm	rear board connection, near power
13	2	J7, J8	Conn_01x10_Male	PinHeader_1x10_P2.54mm	front board connection
dry fit the pin headers to both sides to ensure they're straight before soldering					
14		reopen boards			
Affix faceplate and align steps 15-17 carefully before soldering					
15	3	RV1, RV2, RV3	B10K	Potentiometer_THT:Potentiometer_Alpha_RD901F-40-00D	Single_Vertical
16	3	SW1, SW2, SW3	SW_SPDT	SPDT_Tayda "A-5111"	slide switch 1P2T, be gentle not to overheat the little pins
17	6	J1, J2, J3, J4, J5, J6	JACK_2P	europi:Thonkiconn	mono switching PJ-3001F
reopen faceplate to work on LEDs, but reassemble before soldering					
18	3	D1, D2, D3	LED_THT LED_D5.0mm	BIPOLAR 2-pin, any colors,	tricky to maneuver in, double check they haven't shorted to the jack pins. Long leg square hole.
19	3	JP1, JP2, JP3	Pin_1x03_P2.54mm	right angle !	jumper for 10/5V, check they aren't touching switches' pins. Put the jumper on to help position.

when reassembling, make sure C4 is on top and C12 is on bottom.

- power cable
- screws
- knobs