

TM2/Seq v111		karltron.com		2/6/21	
Step	Qty	Reference(s)	Value	LibPart	Notes
1	2	R1, R2	1K	device:R	
2	2	R3, R6	100K	device:R	
3	2	R4, R7	1M	device:R	
4	2	R5, R8	10K	device:R	
5	2	D5, D6	1N5819	DO-41_SOD81_P10.16mm_Horizontal	
6	2	D1, D3	1N4148	DO-35_SOD27	in pcb1
7	3	C1, C3, C5	100nF	C_Disc_D5.0mm_W2.5mm_P2.50mm	
8	1	C11	100nF	C_Disc_D5.0mm_W2.5mm_P5.00mm	
9	1	U1	TL072	Package_DIP:DIP-8_W7.62mm_Socket	
10	1	U2	MCP4922-EP	Package_DIP:DIP-14_W7.62mm_Socket	
11	1	U3	LM7805_TO220	Regulator	fold down but don't touch that pin of R2.
12	2	C4, C10	1uF	Capacitor_THT:CP	fold over
13	1	J6	Conn_01x14_Male	Connector_PinHeader_2.54mm	into PCB1 on the side marked inside not front
14	1	J5	Power Header	Connector_PinHeader_2.54mm	
15	3	C2, C6, C7	10uF	THT:CP_Radial_D5	done after power header so they can fold over
16	2	H3, H4	Posts!		into PCB 1 , post inside
17		then attach face before soldering steps 18-21			
18	6	RV1, RV2, RV3, RV4, RV5, RV6	B100K	Alpha_RD901F 40-00D Single_Vertical	don't forget to trim the tabs
19	2	SW1, SW2	SW_SPDT	THT:SPDT_Sip3	rearrange washers until level!!
20	2	D2, D4	LED	LED_D3.0mm	long leg circle short leg square
21	4	J1, J2, J3, J4	JACK_2P	Thonkiconn like PJ-3001F	
			screw down pcb2		
22	1	J7	Conn_01x14_Female	Connector:Conn_01x14_Female	
			remove pcb2		
23	1	A1	30-pin 0.6" socket		pul last two pins out of socket if 32pin
24	2	C8, C9	220nF	device:C	
			re-attach pcb2		
			insert arduino with USB facing down; match pin markings		