

EBB/FLOW B.O.M. and recommended quick build order

Note: Below is listed the ideal recommended order for board component placement.

Resistor and capacitor designations below 100 can be found on the main board, any 100 and above are found on the control board.

			Quantity
EBB/FLOW PCB PANEL SET			1
Order	Name	Designator	
Low level components			
1	47r Resistor	R1,R4	2
2	10k Resistor	R2,R5,R7,R8	4
3	470r Resistor	R3	1
4	20k Resistor	R6	1
5	220k Resistor	R9,R10,R11,R12	4
6	1.0M Resistor	R13,R14	2
7	1k Resistor	R15,R16,R107,R124	4
8	200k Resistor	R101,R102,R103,R127	4
9	4k7 Resistor	R104,R114,R115,R123	4
10	30k Resistor	R105	1
11	12k Resistor	R106	1
12	100k Resistor	R108,R109,R110,R111,R112,R113,R116,R117,R118,R119,R120,R121,R122,R128,R129,R130	16
13	180r Resistor	R125,R126	2
14	4001 Diode	D1,D2	2
15	1N4148 Diode	D3,D4,D5,D6,D7,D8,D9,D101,D102,D103,D104	11
16	Button GND Jumper Wire	J3 to J4	1
IC Sockets			
17	8 pin IC socket EBB/FLOW IC and TL072 socket	U3, U2	2
18	14 Pin IC socket	U1,U4,U6	3
Capacitors, regulator and transistor			
18	100nf Ceramic Capacitor	C1,C2,C7,C8,C11,C12,C13,C16,C17,C118,C119,C120,C121	13
19	10nf Ceramic Capacitor	C14,C15	2
20	100nf Box Capacitor	C9	1
21	78L05 Power Regulator	U5	1

22	2N3904 NPN Transistor	Q1	1	
23	Box Power header	P2	1	
24	1uf Box Capacitor	C10	1	
25	22uf Electrolytic Capacitor	C3,C4	2	
26	100uF Electrolytic Capacitor	C5	1	
27	10uF Electrolytic Capacitor	C6	1	
		Note: Place all control board parts and attach panel before soldering.		
28	Thonk Mono Jacks	AO_1,AO_2,TRIG, WF,D/D,R/O,R/F,WF_INV,WF_POS,MIN,MAX	11	
29	M3 nylon spacer, washer and screw	<i>Place screw through hole as shown in build guide add 1 washer on other side and screw on the spacer.</i>		
30	PUSHBUTTON_MOMENTARY Button	PB1	1	
31	Waveform Alpha Potentiometer 100k	WAVE	1	
32	Delay/Depth Song Potentiometer 100k	DLY/DPH	1	
33	Repeats/Offset Song Potentiometer 100k	RPS/OFF	1	
34	Rate/Freq Song Potentiometer 100k	RATE/FRQ	1	
35	MTS SPDT ON-ON SWITCH	U7	1	
36	BI COLOUR LED's	AND_OR_LED, LED1	2	
		Note: For this build to make green indicate positive voltage ignore the normal rules and place the LED around the wrong way. Short leg to + and long leg to the other hole. (see build image). Red will indicate negative voltage.		
	Headers			
		<i>Note: Male headers go on control board, female on the main board.</i>		
37	CB_1, CB_2 16 pin male header	J1, J2	2	
38	HDR-F-2.54_1x16 16 pin female header	MB_1,MB_2	2	
		Note: Now is a good time to check the board thouroughly for any solder briges and shorts, most of the connections have been handily labelled for you.		
	Op amps and EBB/FLOW IC			
39	TL074ACN Op Amp	U1,U4,U6	3	
40	TL072CP Op Amp	U3	1	
41	EBB or FLOW IC	U2	1	

		<i>Screw boards together using other nylon m3 screw.</i>		
42	T-18 Davies knob Blue/Green		1	
43	Trimmer topper Blue/Green		3	
44	Power Cable		1	
45	Rack screws		4	