

**Bill Of Materials for JH. Subtle Chorus, Main Board, TL072 version
(PCB mount components listed only.)**

Errors excepted, subject to modifications.

Parts marked with *) required for on-board PSU only.

Quantity	Part name	Remarks
	Semiconductors	
9	1N4148	All unmarked diodes on PCB
6 *)	1N4002	Diode 1A. (The one next to the fuse holder must be bent slightly away to give room for the fuse holder.)
1 *)	LM317 T	Positive Voltage Regulator, TO 220 or similar package. Needs Heat Sink!
1 *)	LM337 T	Negative Voltage Regulator, TO 220 or similar package. Needs Heat Sink!
11	BF245A	JFET
2	BC550C	NPN
1	BC560C	PNP
1	LM358	Dual OpAmp
1	TL082	Dual BiFET OpAmp (TL072 is ok, too.)
6	TL072	
1	MC1458	Dual Opamp (Other brands of 1458 are ok, too.)
	Capacitors SMT	
21	100nF, 35V or higher, 0805	
	Capacitors, Electrolytic	Polarized – note orientation! Higher voltage than specified is ok, as long as fits into the PCB space!
4	1uF, 63V	No bigger than 5mm diameter
3	10uF, 35V	No bigger than 5mm diameter
2	10uF, 25V (Tantal preferred)	near LM317 and LM337 (Marked as "Ta" on PCB)
2 *)	470uF, 35V	105 deg C version if available. No bigger than 10mm diameter!
	Capacitors, Polyester	5mm spacing
2	15nF	
2	27nF	If you can't get this value, use 22nF and 4.7nF in parallel
5	100n	Marked "u1"
	Capacitors, Ceramic	2.5mm spacing
4	15pF	
2	47pF	
2	390pF	
2	470pF	
1	1nF	

	Trim pots, single turn	Rectangular Cermet version preferred. Check PCB layout to see what fits in.
2	100k	
	Trim pots, multi turn	Vertically mounted multiturn pots with set screw on top. Check PCB layout to see what fits in.
2	500 Ohm	Or 470 Ohm. 1k is ok, too.
	Resistors, 1%	Metall film types.
2 *)	240	240 Ohm
2	300	...
9	470	
4	620	
1	2k2	2.2 kOhm
2 *)	2k7	...
2	3k16	3.16 kOhm (if you cannot get these, use 3k3 and 75k in parallel)
2	4k87	4.87 kOhm (if you cannot get these, use 5k1 and 110k in parallel)
6	6k8	
1	7k5	
6	8k06	8.06 kOhm (if you cannot get these, use 11k and 30k in parallel)
2	8k2	
2	9k53	9.53 kOhm (if you cannot get these, use 10k and 200k in parallel)
18	10k	10 kOhm
1	13k	...
2	15k	
9	22k	
1	27k	
3	39k	
2	47k	
1	51k	
2	56k	
1	68k	
3	82k	
13	100k	
	110k	
	150k	
	200k	
1	220k	
	270k	
9	1M	1 MegOhm
1	1M2	1.2 MegOhm (incorrectly labelled "1M5" on PCB)
	Board Connectors	Of course you can solder the wires directly to the board, and then don't need any connectors!

		Here's what connectors I used (from Reichelt):
3	2-pin	PSS 254/2G (2pin, 2.54mm spacing)
7	3-pin	PSS 254/3G (3pin, 2.54mm spacing)
2	5-pin	PSS 254/5G (5pin, 2.54mm spacing)
1	8-pin	PSS 254/8G (8pin, 2.54mm spacing)
(1)	MOTM Power Connector	Only needed for MOTM version (goes to a space that is covered by fuse holders on onboard-PSU version!)
(1)	Synthesizers.com Power Connector	Only needed for Synthesizers.com version (goes to a space that is covered by fuse holders on onboard-PSU version!)
	Fuses	
2 *)	Fuse Holder 5x20mm	ELU 199060 (Reichelt PL112000) or similar
2 *)	315mA T (slow blow) fuse 5x20mm	