

## Bill Of Materials for JH. Triple Chorus (PCB mount components listed only.)

Errors excepted, subject to modifications.

Change Log:

09.12.07: 330 Ohm resistor in BOM removed.

Quantity	Part name	Remarks
	<b>Semiconductors</b>	
3	TDA1022	Philips BBD chip, out of production. Available as NOS – search the internet!
3	CD4011	CMOS Quad Dual-Input NAND
1	LM337T Voltage Regulator	TO-220 Package
1	TL071	BiFet Opamp
2	TL072	Dual BiFet Opamp
6	LM1458	Dual Opamp
6	BC560C	pnp Transistor
5	1N4002	Diode
12	1N4148	Diode
	<b>Capacitors (Voltage rating 25V or higher)</b>	
2	33pF Ceramic	2.5mm spacing (Board grid is actually in inches – but I think 2.54mm components are sold as “2.5mm” – same for 5, 7.5, 10mm ...)
6	150pF (“n15”) Ceramic	2.5mm spacing
6	1nF Ceramic	2.5mm spacing
3	47pF Ceramic	5mm spacing – or bend a smaller one’s leads to fit 5mm spacing
1	220pF Ceramic	5mm spacing – or bend a smaller one’s leads to fit 5mm spacing
3	560pF Ceramic	5mm spacing – or bend a smaller one’s leads to fit 5mm spacing
3	100nF (“u1”) Ceramic	5mm spacing – or bend a smaller one’s leads to fit 5mm spacing
1	1nF	5mm or 7.5mm spacing
1	1.5nF	5mm or 7.5mm spacing
3	2.7nF	5mm or 7.5mm spacing
1	3.3nF	5mm or 7.5mm spacing
2	4.7nF	5mm or 7.5mm spacing
2	6.8nF	5mm or 7.5mm spacing
3	8.2nF	5mm or 7.5mm spacing
1	10nF	5mm or 7.5mm spacing
1	12nF	5mm or 7.5mm spacing
1	22nF	5mm or 7.5mm spacing
1	33nF	5mm or 7.5mm spacing
2	47nF	5mm or 7.5mm spacing
2	68nF	5mm or 7.5mm spacing
1	100nF (“u1”)	5mm or 7.5mm spacing
1	150nF (“u15”)	5mm or 7.5mm spacing
4	220nF (“u22”)	5mm or 7.5mm spacing
6	220nF (“u22”)	5mm spacing
1	470nF	5mm or 7.5mm or 10mm spacing
10	100nF SMD 1206 or 0805	Bypass Caps on solder side.

7	1uF Electrolytic	max 5mm diameter
4	10uF Electrolytic	max 5mm diameter
1	10uF Tantal Electrolytic 2.5mm spacing	near voltage regulator
2	22uF Electrolytic	max. 5mm diameter
9	47uF Electrolytic	max. 5mm diameter
3	100uF Electrolytic	max. 6.3mm diameter
1	470uF / 40V Electrolytic	the "big one"
	<b>Trimpots</b>	
2	1Meg 10mm trimpot	Piher PT-10 horizontal mount
1	100k Cermet trimpot (single turn)	You may want to use a 100k lin potentiometer on the front panel instead
	<b>1% 0.25W Metal Film Resistors</b>	1k2 means 1.2 kOhm etc.
1	10 Ohm	
8	100 Ohm	
1	240 Ohm	
5	470 Ohm	
4	620 Ohm	
1	820 Ohm	
8	1k	
1	1k2	
3	1k6	
1	2k	
1	2k2	
3	2k4	
1	2k7	
1	3k3	
1	4k7	
4	5k1	
1	5k6	
1	9k1	
16	10k	
1	11k	
3	15k	
14	22k	
4	30k	
1	33k	
8	47k	
1	51k	
1	68k	
2	82k	
13	100k	
6	120k	
1	150k	
1	270k	
4	300k	
1	470k	
6	560k	
1	620k	
3	680k	
2	820k	
1	1M (1 MegOhm)	may be 10% Carbon
1	1M5 (1.5 MegOhm)	may be 10% Carbon

1	2M2 (2.2 MegOhm)	may be 10% Carbon
	<b>Fuse</b>	
1	Fuse Holder 5x20mm	ELU 199060 (Reichelt PL112000) or similar
1	200mA T (slow blow) fuse 5x20mm	
	<b>Board connectors</b>	
	Of course you can solder the wires directly to the board, and then don't need any connectors! Here's what connectors I used:	
7	PSS 254/2G (2pin, 2.54mm spacing)	in Germany, you get them from <a href="http://www.reichelt.de">www.reichelt.de</a>
3	PSS 254/3G (3pin, 2.54mm spacing)	
1	PSS 254/5G (5pin, 2.54mm spacing)	