Bill Of Materials for JH. Scanner Chorus / Vibrato (PCB mount components listed only.)

Errors excepted, subject to modifications.

Corrected: 220nF must be 5mm spacing (not 7.5mm) Parts marked with *) required for on-board PSU only.

Quantity	Part name	Remarks
	Semiconductors	
1	LM431	in TO-92 plastic package, or TL431 in similar plastic
		package. Looks like a small transistor.
1	LM324	
1	LM13600	or LM13700, or NE5517
2	TL071	
2	TL072	
7	LF412	
9	SSM2210	or LM394, or similar matched npn pair
1 *)	7815	TO220 package; needs heat sink
1 *)	7915	TO220 package; needs heat sink
12	BC550C	Not every transitor has room for labelling on the PCB
20	BC560C	overlay. BC550C's are drawn slightly different from
		BC560C's though, so if you look closely, it should always be
		clear which is which.
2	1N4002	
1	1N4148	
9	2mA-LEDs	PCB mount or connected with wires; red, green or yellow
1	B80C1000	or B80C1500. Round (WO4) bridge rectifier
	Inductors	
25	33mH	Fastron 09P
	Capacitors SMT	
17	100nF, 35V or	
	higher, 0805	
	Capacitors,	Polarized – note orientation!
	Electrolytic	Higher voltage than specified is ok, as long as fits into the
	J J J	PCB space!
3	10uF, 35V	no bigger than 5mm diameter
2 *)	10uF, 25V (Tantal	near 7815 and 7915
	preferred)	
2	22u, 25V	no bigger than 5mm diameter
2	47u, 35V	no bigger than 6.5mm diameter
2 *)	470uF, 35V	105 deg C version if available. No bigger than 10mm
		diameter!
	Capacitors,	
	Polyester	
2	22nF	5mm spacing
24	47nF	5mm spacing
1	220nF	5mm spacing. (marked as " $u22$ ", for $0.22uF = 220nF$)

	Capacitors,	
	Ceramic	
2	220pF	2.5mm
1	470pF	5mm spacing (marked as ,, $n47^{\circ}$, for 0.47nF = 470pF)
1	1nF	5mm spacing
1		Shini Spiteling
	Trimpots,	Rectangular Cermet version preferred. Check PCB layout to
	single turn	see what fits in.
1	100k	
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	Trimpots,	Vertically mounted multiturn pots with set screw on top.
	multi turn	Check PCB layout to see what fits in.
1	1k	· · · · · · · · · · · · · · · · · · ·
	Resistors, 1%	Metall film types.
2	10	10 Ohm
18	68	
10	100	
1	200	
1	390	
1	620	
1	820	
17	1k	1 kOhm
1	1k2	1.2 kOhm
1	2k	
1	2k7	
9	3k	
2	3k6	
3	3k9	
4	4k7	
4	5k1	
2	5k6	
3	6k2	
3	10k	10 kOhm
2	13k	
2	15k	
2	27k	
1	30k	
1	33k	
1	39k	
2	47k	
12	100k	
2	110k	
1	150k	
1	200k	
1	220k	
1	270k	
1	470k	

1	560k	
1	1M	1 MegOhm
	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):
6	2-pin	PSS 254/2G (2pin, 2.54mm spacing)
4	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	10-pin	PSS 254/10G (10pin, 2.54mm spacing)