

Jurgen Haible Living VCO Parts List

Qty	Description	Mouser P/N	Comments
PCB COMPONENTS			
Semiconductors			
3	LM311	595-LM311P	
7	TL072	595-TL072BCP	
1	LM13600	513-NJM13600D	
3	CA3046		can substitute CA3086 or LM3046 or 2SC1583 or SSM2210 with form/wire to fit; available at Bridechamber and Jameco
12	BC550C	512-BC550CBU	
11	BC560C	512-BC560CBU	
17	1N4148	512-1N4148	
SMT Capacitors; 0805			
18	100nF	80-C0805C104K5R	
Electrolytic Capacitors			
3	1uF 50V	140-MLRH50V1.0-RC	4 mm diameter; 2.5 mm lead spacing
8	22uF 35V	140-MLRH35V10-RC	4 mm diameter; 2.5 mm lead spacing - changed to 10 uF to reduce capacitive loading on power supply
Polyester Capacitors; Wima MKS, Siemens MKT or similar			
1	47nF	505-MKS20.047/63/5	5 mm
1	1uF	505-MKS21.0/63/5	5 mm
Polystyrene Capacitors; 5%			
3	2n7	23PS227	
Ceramic Capacitors			
3	22pF	80-C315C220K1G	
5	100pF	80-C315C101K1G	
3	1nF	80-C315C102K1G	
Resistors; 1/4W 0.1% metal film			
11	100K	66-RC55LF-D-100K	25 PPM; use Bridechamber for lower cost alternative
Resistors; 1/4W 1% metal film			
1	100R	271-100-RC	
1	300R	271-300-RC	
6	330R	271-330-RC	
13	1K	271-1K-RC	
6	2K	271-2K-RC	
3	3K3	271-3.3K-RC	
3	5K1	271-5.1K-RC	
3	6K2	271-6.2K-RC	
14	10K	271-10K-RC	
3	12K	271-12K-RC	
14	15K	271-15K-RC	
12	20K	271-20K-RC	
3	51K	271-51K-RC	
1	56K	271-56K-RC	
6	62K	271-62K-RC	
3	68K	271-68K-RC	
9	100K	271-100K-RC	
6	150K	271-150K-RC	
1	200K	271-200K-RC	
1	430K	271-430K-RC	
4	510K	271-511K-RC	standard value is 511K
3	750K	271-750K-RC	
14	1M	271-1.0M-RC	
1	4M7	291-4.7M-RC	5% alternative for 660-RK1/4DC4704F 1%
4	4M7	291-4.7M-RC	modifications to add fine control
3	10M	291-10M-RC	5% alternative for 660-RK1/4DC1005F 1%
Miscellaneous Parts			
3	1K Tempco		3000-3600 ppm/K; available at Bridechamber
8	Ferrite beads	623-2743001112LF	substitute for Panasonic EXC-ELSA 35
Trimpots			
3	2k	652-3386F-1-202LF	single turn square cermet
3	50k	652-3386F-1-503LF	single turn square cermet
3	10k	72-T93YB-10K	multi turn rectangular - screw on top

3	100k	72-T93YB-100K	multi turn rectangular - screw on top
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Connectors

11	2 pin MTA header	571-6404542	0.100 spacing mating connectors have insufficient clearance for specific header locations
21	3 pin MTA header	571-6404543	0.100 spacing mating connectors have insufficient clearance for specific header locations
4	4 pin MTA header	571-6404454	0.156 spacing

PANEL COMPONENTS

13	1/4" jacks	502-112AX	use Bridechamber for lower cost alternative
3	SPDT flatted switch	1055-TA2130-EVX	lower cost Mountain alternative to NKK 633-M201202-RO
18	100K potentiometers		BI Technologies P260P-D1BS3CB100K
1	1M log potentiometer		Oakley Sound BI Technologies
19	small knobs	PKES60B1/4	use RadioShack 274-415 for lower cost alternative
1	Lumix bi-color LED	696-SSI-LXH387HGW	
3	4 pin MTA connector	571-3-640426-4	standard power
3	4 pin MTA dust cover	571-6405514	standard power
2	4 pin MTA connector	571-3-640599-4	power feed-thru
2	4 pin MTA dust cover	571-6406434	power feed-thru

These MTA 0.100" IDC connectors have insufficient clearance for the closely spaced headers: Depth/Rate/VJK, Amp1/Amp2/Amp3, Oct/Tune, Pulse1/PWM1/PW1, Pulse1/PWM1/PW1, and Pulse1/PWM1/PW1. I substituted FCI mini-latch housings and crimp pins for VJK, Depth, Amp2, PW1, PW2, PW3, PWM1, PWM2, and PWM3. These connectors work with the MTA headers although the MTA pins are 0.065" too long.

11	2 pin MTA connector	571-3-640441-2	insufficient clearance for specific header locations
11	2 pin MTA dust cover	571-6405502	
21	3 pin MTA connector	571-3-640441-3	insufficient clearance for specific header locations
21	3 pin MTA dust cover	571-6405503	

ENHANCEMENT PCB COMPONENTS

1	TL072	595-TL072BCP	
1	8 pin DIP socket	517-4808-3000-CP	
1	100R	271-100-RC	
1	1K	271-1K-RC	
1	1K5	271-1.5K-RC	
4	100K	271-100K-RC	
1	22pF	80-C315C220K1G	
1	1nF	80-C315C102K1G	
2	0.1uF	147-72-104-RC	decoupling
6	2 pin MTA header	571-6404542	0.100 spacing; In1, In2, In3, Mix Out, LFO In, LED
1	3 pin MTA header	571-6404543	0.100 spacing; power supply link
6	2 pin MTA connector	571-3-640441-2	
6	2 pin MTA dust cover	571-6405502	
1	3 pin MTA connector	571-3-640441-3	
1	3 pin MTA dust cover	571-6405503	