

Mark Keppinger Tube Theremin Component List

Keppinger "Bass" Tuning with
Hasten "Concert" Tuning Option

Component	Value	Specifications
Tubes		
V1	6J5	Medium-Mu Triode
V2	6H6	Twin Diode
V3	6J5	Medium-Mu Triode
V4	6SN7	Medium-Mu Twin Triode
V5	6J5	Medium-Mu Triode
V6	5Y3	Full-Wave Rectifier
V7	OD3/VR150	Voltage Regulator
V8	6SN7	Medium-Mu Twin Triode
V9	6V6	Beam-Power Tetrode
V10	6V6	Beam-Power Tetrode
Resistors		
R1~	100K Ω	1/2 WATT
R2	10K Ω	2 WATT
R3~	100K Ω	1/2 WATT
R4	10K Ω	2 WATT
R5	220K Ω	1/2 WATT
R6~	100K Ω	1/2 WATT
R7	10K Ω	2 WATT
R8	220K Ω	1/2 WATT
R9	1M Ω	1/2 WATT
R10	10K Ω	1/2 WATT
R11	39K Ω	2 WATT
R12	1M Ω	1/2 WATT
R13	1M Ω	1/2 WATT
R14	100K Ω	1/2 WATT
R15	15K Ω	2 WATT
R16	1.5K Ω	1/2 WATT
R17	39K Ω	2 WATT
R18	1M Ω	1/2 WATT
R19	1K Ω	1/2 WATT
R20	39K Ω	2 WATT
R21	10K Ω	1/2 WATT
R22	1M Ω	1/2 WATT
R23	10K Ω	1/2 WATT
R24	100K Ω	1/2 WATT
R25	100K Ω	2 WATT
R26	220K Ω	1 WATT
R27	220K Ω	1 WATT
R28	270 Ω	5 WATT
R29	3K Ω	10 WATT
R30	100K Ω	1/4 WATT
R31	100 Ω	1/2 WATT
R32	100 Ω	1/2 WATT

Component	Value	Specifications
Capacitors		
C1	0.1 μ F	400V, High Quality
C2	200 pF	400V, High Quality
C3	9-50 pF	Trimmer, compression type
C4	0.001 μ F	400V, High Quality
C5* **	750 pF	400V, High Quality
C6	9-50 pF	Trimmer, compression type
C7	0.001 μ F	400V, High Quality
C8	0.047 μ F	400V, High Quality
C9**	680 pF	400V, High Quality
C10	9-50 pF	Trimmer, compression type
C11		Variable, panel mount, 1/4" (6.35mm) shaft
C12	0.001 μ F	400V, High Quality
C13	0.047 μ F	400V, High Quality
C14	0.001 μ F	400V, High Quality
C15	0.001 μ F	400V, High Quality
C16	0.047 μ F	400V, High Quality
C17	47 pF	400V, High Quality
C18	47 pF	400V, High Quality
C19	0.047 μ F	400V, High Quality
C20	0.047 μ F	400V, High Quality
C21	N/A	
C22	N/A	
C23	0.047 μ F	400V, High Quality
C24	47 μ F	100VDC, Polarized
C25	0.047 μ F	400V, High Quality
C26	0.047 μ F	400V, High Quality
C27	0.047 μ F	400V, High Quality
C28	47 μ F	100VDC, Polarized
C29	0.047 μ F	400V, High Quality
C30	22 μ F	450VDC, Polarized
C31	22 μ F	450VDC, Polarized
C32	100 μ F	50VDC, Polarized
C33	0.1 μ F	50VDC, Polarized

* may need (2) caps in parallel to get this value

** substitute 430pF for full range "concert" tuning

Jacks		
J1	1/4" (6.35mm)	Phone Jack, Mono
J2	1/4" (6.35mm)	Phone Jack, Stereo
J3	1/4" (6.35mm)	Phone Jack, Mono

~ Under some circumstances it may be necessary to decrease grid resistor value to produce consistent, steady oscillation.

Data provided by:

Mark Keppinger
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Howard Mossman
Vincent Renaud
Philip Neidlinger

Note: While every effort was made to ensure accuracy, no guarantee is offered or to be implied.

Compiled by: J. Sparks

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Component	Value	Specifications
Variable Resistors		
VR1	5K Ω	1 WATT Potentiometer, Linear Taper
VR2	500K Ω	1 WATT Potentiometer, Audio Taper
Transformers		
T1	1608	Hammond Audio Transformer
T2	270EX	Hammond Power Transformer
Inductors		
L3	4.7 mH	Iron Core
L7	12 H	Choke (DC Filter), Iron Core, Hammond 193B
Miscellaneous		
Tube Socket		(8) Octal
Fuse Holder		
Fuse Holder		3A
Power Switch		SPST, rated for line voltage (120VAC US)
Connectors		Male/Female, Hex or Octal
Terminal Strip		
Lamp Holder		for 6.3 V Lamp, Panel Mount, Ruby Lens
Lamp (Bulb)		6.3 Volt

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