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	1Μ 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	1Κ 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	220Κ Ω	1 WATT
R27	220Κ Ω	1 WATT
R28	270 Ω	5 WATT
R29	ЗК Ω	10 WATT
R30	100K Ω	1/4 WATT

Component	Value	Specifications		
Capacitors				
C1	0.1 µF	400V, High Quality		
C2	200 pF	400V, High Quality		
C3	9-50 pF	Trimmer, compression type		
C4	0.001 µF	400V, High Quality		
C5* **	750 pF	400V, High Quality		
C6	9-50 pF	Trimmer, compression type		
C7	0.001 µF	400V, High Quality		
C8	0.047 µF	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 µF	400V, High Quality		
C13	0.047 µF	400V, High Quality		
C14	0.001 µF	400V, High Quality		
C15	0.001 µF	400V, High Quality		
C16	0.047 µF	400V, High Quality		
C17	47 pF	400V, High Quality		
C18	47 pF	400V, High Quality		
C19	0.047 µF	400V, High Quality		
C20	0.047 µF	400V, High Quality		
C21	N/A			
C22	N/A			
C23	0.047 µF	400V, High Quality		
C24	47 µF	100VDC, Polarized		
C25	0.047 µF	400V, High Quality		
C26	0.047 µF	400V, High Quality		
C27	0.047 µF	400V, High Quality		
C28	47 µF	100VDC, Polarized		
C29	0.047 µF	400V, High Quality		
C30	22 µF	450VDC, Polarized		
C31	22 µF	450VDC, Polarized		
C32	100 μF	50VDC, Polarized		
C33	0.1 µF	50VDC, Polarized		

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

^{***} Suggested ranges are 5-15 pF and 10-20 pF - may be obtained by removing all but one rotor plate from an air capacitor

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

REV. 4

2/23/2011 8:49 AM

^{**} substitute 430pF for "concert" tuning

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

Component	Value	Specifications	
Resistors			
R31	100 Ω		
R32	100 Ω		
VR1	5K Ω	1 WATT Potentiometer, Linear Taper	
VR2	500K Ω	1 WATT Potentiometer, Audio Taper	
Transformers			
T1	1608	Hammond Audio (Output) 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			
Power Switch		SPST, rated for line voltage	
Connectors		Male/Female, Hex or Octal	
Terminal Strip			
Fuse		3A	

Air Coils							
L1	Volume Oscillator Coil	Wire	Windings	Turns	Winding Length	Form Diameter	Form Length
		#28 Enamel	1	150	2.20" (55.9mm)	1.60" (40.64mm)	3.30" (84mm)
	Notes:	Coil is close v	wound. Coi	l is tapp	ed at 50 turns. (see	schematic)	
L2	Volume Antenna Coil	Wire	Windings	Turns	Winding Length	Form Diameter	Form Length
		#32 Enamel	1	600	5.65" (143.51mm)	3.10" (78.74mm)	10.25" (260.4mm)
						revised 01/18/10	
	Notes:	Coil is close	wound.				
L4, L5	Pitch Oscillator Coil	Wire	Windings	Turns	Winding Length	Form Diameter	Form Length
		#28 Enamel	1	150	2.20" (55.9mm)	2.25" (57.15mm)	3.30" (84mm)
	Notes:	Coil is close wound. Coil is tapped at 50 turns. (see schematic)					
L6	Pitch Antenna Coil	Wire	Windings	Turns	Winding Length	Form Diameter	Form Length
		#32 Enamel	1	1200	11.30" (287mm)	3.10" (78.74mm)	12.50" (317.5mm)
	Notes:	revised 01/18/10 Notes: Coil is close wound.					
	General Coil Notes:	coil forms are resin-impregnated phenolic. Coil forms are painted black with Krylon® spray paint. CAUTION: other typ paint may be conductive/inductive! Use ONLY brass hardware to mount oscillator coils.					er types / brands of

Revision 2 Form Diameter of coils L2 and L6 were 3.30"

Revision 3 Added R31 and R32 to list Revision 4 Added note for C11

Note: There is no information on page 4. There is no page 4.

Mark Keppinger Tube Theremin Component List

REV. 4 2/23/2011 8:49 AM 4 of 4

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

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