

Sequence 8 BOM

Updated: 1/11/2016

Resistors:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
14	1kΩ Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R12, R17, R18, R19, R20, R22	291-1K-RC	<input type="checkbox"/>
1	2kΩ Resistor	R21	291-2K-RC	<input type="checkbox"/>
2	10kΩ Resistor	R14, R15	291-10K-RC	<input type="checkbox"/>
3	43kΩ Resistor	R25, R28, R31	291-43K-RC	<input type="checkbox"/>
6	100kΩ Resistor	R10, R11, R13, R24, R27, R30	291-100K-RC	<input type="checkbox"/>
1	1MΩ Resistor	R16	291-1M-RC	<input type="checkbox"/>
1	No Pop	R9		<input type="checkbox"/>

TOTAL: 27

Capacitors:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
11	100nF Ceramic Capacitor	C2, C3, C5, C6, C7, C8, C9, C10, C12, C13, C14	140-50U9-104Z-RC	<input type="checkbox"/>
1	220nF Ceramic Capacitor	Mounted on backside of the Logic Board on IC4. Set between pins 4 & 11. See assembly instructions for further details.	594-K224K20X7RF5TH5	<input type="checkbox"/>
4	10μF Electrolytic Capacitor	C1, C4, C11, C15	871-B41002A4106M000	<input type="checkbox"/>

TOTAL: 16

Diodes:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
14	1N4148 Diode	D9, D10, D11, D12, D13, D14, D15, D16, D18, D19, D20, D21, D23, D24	512-1N4148	<input type="checkbox"/>
1	9.1V Zener Diode	D22	512-1N4739A	<input type="checkbox"/>
8	3mm Red LED	D1, D2, D3, D4, D5, D6, D7, D8	604-WP710A10ID	<input type="checkbox"/>
1	No Pop	D17		<input type="checkbox"/>

TOTAL: 23

Transistors/Voltage Regulators:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
1	LM78L05ACZ 5V Voltage Regulator	U1	512-LM78L05ACZ	<input type="checkbox"/>

TOTAL: 1

Integrated Circuits/Op Amps/Sockets:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
5	14-Pin DIP Socket	IC2, IC3, IC4, IC5, IC6	649-DILB14P-223TLF	<input type="checkbox"/>
1	16-Pin DIP Socket	IC1	649-DILB16P-223TLF	<input type="checkbox"/>
1	TLV274 Op Amp	IC4	595-TLV274IN	<input type="checkbox"/>
1	LM324N Op Amp	IC6	512-LM324N	<input type="checkbox"/>
1	4017N IC	IC1	595-CD4017BE	<input type="checkbox"/>
3	4093N IC	IC2, IC3, IC5	595-CD4093BE	<input type="checkbox"/>

TOTAL: 12

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Potentiometers:

QTY	Value	Ref.	Mouser Part #	<input type="checkbox"/>
12	10kΩ Linear 9mm	POT1, POT2, POT3, POT4, POT5, POT6, POT7, POT8, CV_LIM1, CV_LIM2, CV_LIM3, RATE_F	Various Suppliers	<input type="checkbox"/>
2	500kΩ Linear 9mm	RAND_RATE, RATE_C	Various Suppliers	<input type="checkbox"/>

TOTAL: 14

Switches:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
4	SPDT (ON/ON) Mini Switch	HOLD_HARD, CLOCK_SW, RAND, ON-OFF	Various Suppliers	<input type="checkbox"/>
3	SPST Momentary Pushbutton Switch	HOLD_MO, RST, STEP	Various Suppliers	<input type="checkbox"/>

TOTAL: 7

Jacks/Connectors/Headers:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
14	3.5mm Vertical Mono Jack	CLOCK_IN, CLOCK_OUT, CV1, CV2, CV3, RESET, RST1, RST2, RST3, RST4, RST5, RST6, RST7, RST8	PJ301BM (from Synthrotek, Erthenvar, Thonk, etc.)	<input type="checkbox"/>
1	2.1MM Right Angle DC Jack (PCB Mount) (Optional)	See assembly instructions for further details.	163-7620E-E	<input type="checkbox"/>
1	16-Pin Male Shrouded Keyed Connector	J5 EURO	517-30316-6002	<input type="checkbox"/>
1	4-Pin Male Keyed Connector	J6 FRAC	538-26-19-2041	<input type="checkbox"/>
2	2X10 Female Header	J1, J2	Various Suppliers	<input type="checkbox"/>
2	2X10 Male Header	J3, J4	Various Suppliers	<input type="checkbox"/>

TOTAL: 21

Other:

QTY	Part	Ref.	Mouser Part #	<input type="checkbox"/>
1	9V Battery Clip (optional)	9V Battery	12BC312-GR	<input type="checkbox"/>
2	PCB	PCB	Synthrotek	<input type="checkbox"/>
1	Panel	Panel	Synthrotek	<input type="checkbox"/>
14	White Knobs	N/A	Various Suppliers	<input type="checkbox"/>
1	16-to-16 Pin Keyed Eurorack Power Cable	N/A	Various Suppliers	<input type="checkbox"/>
4	2.5mm Screws	N/A	Various Suppliers	<input type="checkbox"/>
4	3mm Screws	N/A	Various Suppliers	<input type="checkbox"/>
14	Potentiometer Nuts and Washers	N/A	Various Suppliers	<input type="checkbox"/>
14	3.5mm nuts	N/A	Various Suppliers	<input type="checkbox"/>

TOTAL: 55