

# 16 Step Sequencer BOM

Updated: 06-27-2013

QTY	Part	Reference	Mouser Part #
1	100Ω Resistor	R79	291-100-RC
2	330Ω Resistor	R50, R66	291-470-RC
18	470Ω Resistor	R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R69, R70	291-470-RC
11	1kΩ Resistor	R53, R54, R55, R56, R59, R64, R84, R87, R88, R89, R90	291-1K-RC
21	10kΩ Resistor	R57, R58, R60, R61, R62, R63, R65, R71, R72, R73, R74, R75, R76, R77, R78, R80, R81, R82, R83, R85, R86	291-10K-RC
16	22kΩ Resistor	R02, R03, R04, R05, R06, R07, R08, R10, R11, R12, R13, R14, R15, R16, R51, R52,	291-22K-RC
1	1MΩ Resistor	R68	291-1M-RC
18	100nF Ceramic Capacitor	C02, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C23, C26, C27, C28, C29	140-50V5-104Z-RC
3	4.7μF Ceramic Capacitor	C20, C21, C2	810-FK28X5R1A475K
1	100μF Electrolytic Capacitor	C22	871-B41828A5107M000
18	Red LED	D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D26, D27, D28, D29, D30, D31, D32, D37	604-WP7113ID
38	1N4148 Diode	D01, D02, D03, D04, D05, D06, D07, D08, D09, D10, D11, D12, D13, D14, D15, D16, D33, D34, D35, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56	512-1N4148
3	8 Pin IC Socket	U19, U21, U24	649-DILB8P-223TLF
8	14 Pin IC Socket	U13, U14, U15, U16, U17, U20, U22, U23	649-DILB14P-223TLF
2	16 Pin IC Socket	U1, U2	649-DILB16P-223TLF
2	20 Pin IC Socket	U5, U6	649-DILB20P-223TLF
1	7555 Timer IC	U19	595-TLC555CP

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1	LM393 IC	U24	512-LM393AN
1	TLV2370 IC	U21	595-TLV2370IPE4
1	74HC04 IC	U20	771-74HC04N
1	74HC08 IC	U22	771-74HC08N
1	74HC163 IC	U02	771-HC163N652
1	74HC238 IC	U01	771-74HC238N
2	74HC244 IC	U05, U06	771-74HC244N
5	74HC32 IC	U13, U14, U15, U16, U17	771-74HC32N
1	74HC86 IC	U23	595-SN74HC86N
1	BS170 Transistor	M1	512-BS170D75Z
6	Q2N2222 Transistor	Q1, Q2, Q3, Q4, Q5, Q6	863-P2N2222AG
1	LM78L05 Volt. Regulator	U18	512-LM78L05ACZ
18	10KΩB D-Shaft Potentiometers	R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R49, R67	652-PDB12-H4251103BF
16	DP3T Slide Switch	SW01, SW02, SW03, SW04, SW05, SW06, SW07, SW08, SW09, SW10, SW11, SW12, SW13, SW14, SW15, SW16	506-CST023NK
1	12 Position Rotary Switch	SW17	105-SR2512F-112NS
1	DPDT Switch	S1	108-1MD1T1B1M2QE-EVX
2	SPDT Switch	SW18 SW23	Various Suppliers
2	SPST Pushbutton	SW19, SW21	Various Suppliers
1	SPST Switch	SW20	Various Suppliers
8	1/8" Mono Jack	J1, J2, J3, J4, J5, J6, J7, J9	16PJ138
1	DC Jack	J8	Various Suppliers
1	5ft. Wire	Wire	Various Suppliers
1	16 Step Sequencer Mod	<i>See MOD Assembly Instructions</i>	Synthrotek
1	16 Step PCB	PCB	Synthrotek