









## Bill of Materials

Designator	Description	Value	Q
IC1, IC2, IC3	555 Timer	555	3
C5, C6, C8	Ceramic capacitor	10nF	3
C7	Ceramic capacitor	470nF	1
C9, C10, C11, C12,	Ceramic capacitor	100nF	6
C1	Electrolytic capacitor 16v/50v	10μF	1
C4	Electrolytic capacitor 16v/50v	0.22μF	1
IC4	Hex inverters	74LS04	1
D1, D2	Led 5mm Round		2
SW1	Mini slide switch 2 pos, 3 pins		1
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	16p	1
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p	1
T1	Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 3	3р	1
POT1	Potentiometer vertical, rotary, 3pins	1M	1
IC6	Quad 2-input AND gates	74LS08	1
IC5	Quad 2-input OR gates.	74LS32	1
R2, R4, R5, R6	Resistor Axial	1K	4
R3	Resistor Axial	470K	1
R7, R8	Resistor Axial	220Ω	2
R9, R10, R11	Resistor Axial	4.7K	3
TACT1	Tactile button 12 mm		1
R1	Trimmer resistor 3 pin	1K	1



## Assembly List

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10µF
C4	Electrolytic capacitor 16v/50v	0.22µF
C5	Ceramic capacitor	10nF
C6	Ceramic capacitor	10nF
C7	Ceramic capacitor	470nF
C8	Ceramic capacitor	10nF
С9	Ceramic capacitor	100nF
C10	Ceramic capacitor	100nF
C11	Ceramic capacitor	100nF
C12	Ceramic capacitor	100nF
C13	Ceramic capacitor	100nF
C14	Ceramic capacitor	100nf
D1	Led 5mm Round	
D2	Led 5mm Round	
IC1	555 Timer	555
IC2	555 Timer	555
IC3	555 Timer	555
IC4	Hex inverters	74LS04
IC5	Quad 2-input OR gates.	74LS32
IC6	Quad 2-input AND gates	74LS08
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	16p
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p
POT1	Potentiometer vertical, rotary, 3pins	1M
R1	Trimmer resistor 3 pin	1K
R2	Resistor Axial	1K
R3	Resistor Axial	470K
R4	Resistor Axial	1K
R5	Resistor Axial	1K
R6	Resistor Axial	1K
R7	Resistor Axial	220Ω
R8	Resistor Axial	220Ω
R9	Resistor Axial	4.7K
R10	Resistor Axial	4.7K
R11	Resistor Axial	4.7K
SW1	Mini slide switch 2 pos, 3 pins	
T1	Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 3p	3р
TACT1	Tactile button 12 mm	