

Valentines Heart Soldering Kit BOM and Notes

Designed by Electro707

Pre-SMD Soldered PCBs:

If you have received a PCB with SMD components pre-soldered (check the back of the board), then you don't have to worry about soldering the SMD parts.

Optional Parts:

Parts with the ▼ symbol in it's reference means that it's optional to add. In this case, it's for the backlight for an acrylic piece for the photoframe

Through-hole Parts

SMD Parts

Reference	Components	
R1	4.7kΩ Resistor (Yellow-Purple-Red-Yellow)	
C1	100μF Capacitor Polarized Electrolytic	
U1	555 Timer or 8-DIP Socket*	
D1 D17*	5mm LED Any color you desire	
BT1	9V Harness To power circuit	
R19 ▼	56Ω Resistor (Green-Blue-Black-Yellow)	
U3	NCP1117 5V Regulator	
C2	1μF Capacitor SMD 1206	
R20 & R21	10kΩ Resistor SMD 0805	
Q1	2N3904 NPN Transistor SOT23	
R2 R18	330Ω Resistor SMD 1206	
U2 & U4	74HC595 SOIC-16 Package	
D18 ▼ D21	SMD1206 LED Single Color Right Angle	