

Soldering Kit Ladybug



Necessary tools:

Wire cutters: [PGC-TR25](#) they are light and easy to use
Twizzers: [PGC-00SA](#)
Soldering iron: Budget solution [CHN-SLD802](#) and [CHN-SLD907](#)
or professional tool [SLD-FAST-75W](#)
Soldering wire: [Solder-Wire-SAC0307-0-8](#)
Sponge: [SLD-SPONGE](#)

General tips for soldering:

1. Switch On the soldering iron, setup the working temperature to 350 C. Wait until the Soldering Iron reach this temperature – there is LED indicator which will pulse when the temperature is reach.
2. Before soldering clean the Soldering tip with wet sponge from the black resedues.
3. Never touch the heated soldering tip or body.
4. Do not leave the Soldering Iron unattended.
5. Be careful to not touch cables, table, cloths with the soldering iron heated body or tip.
6. Place the electronic component on it's place, watch out if there is polarity.
7. Touch the component pad which you want to solder and wait 3-4 seconds to heat up.
8. Feed a little from the soldering wire until the component lead is flooded with tin and it's shinny and glossy.
9. If the soldering is not shinny but dull please re-solder with colophony.

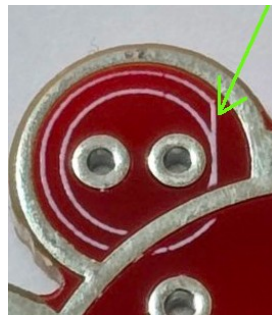
Soldering kit content:

The soldering kit contains the components below. Please solder them in the same sequence:

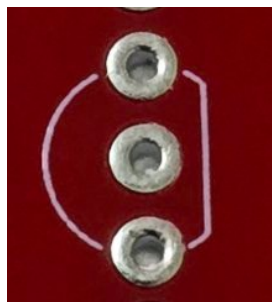
PCB	- 1 pce
LED red 5mm	- 2 pcs (with polarity)
Resistor 220 OHM color stripes: red/red/black	- 2 pcs
Resistor 47K OHM color stripes yellow/violet/orange	- 1 pce
Transistor 2N3904	- 1 pce (with polarity)
Light Dependant Resistor LDR	- 1 pce
Battery holder	- 1 pce (with polarity)

Attention:

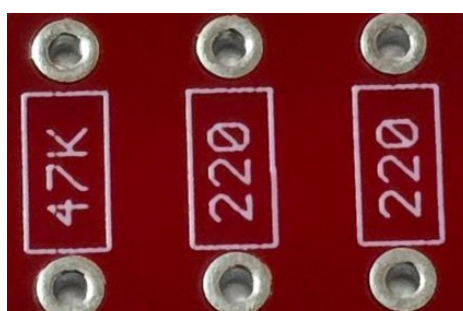
1. The LEDs have polarity. They are with long and short lead. On the PCB LEDs are marked with circle which has vertical line on the one side. Please insert the LED with the short leg pointed at the vertical line.



2. The transistor has polarity. On the PCB the transistor is marked with half circle. Transistor shape is also half circle, attach the transistor following the marking:



3. The resistors have color stripes for their value. Two resistors are with two red stripes, place them on the 220 marking. One resistor has a yellow stripe, place it on the 47K marking:



3. The battery holder is with polarity. Assembly it on the bottom side of the PCB following the white marking

The battery holder must be soldered at the end.

The battery is placed in the battery holder with the + marking on top.