SOLDERING KIT SANTA

Necessary tools:

Wire Cutters:	we recommend PGC-TR25 they are sharp and light
Twizzers:	we recommend PGC-00SA
Soldering iron:	CHN-SLD802 is budged solution, SLD-FAST-75W is professional solution
Soldering wire:	we recommend Solder-Wire-SAC0307-0-8

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.

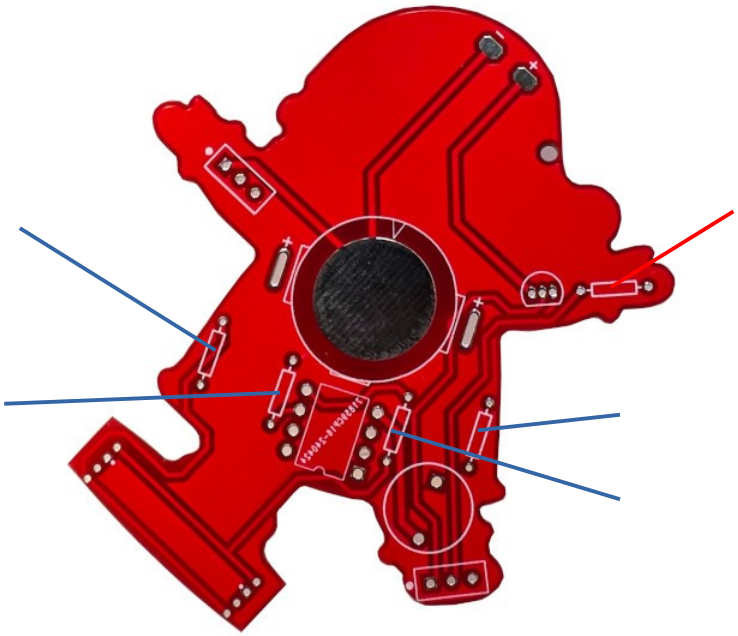
Assembly instructions:

List of Components:

Resistors 1 K ohm	4 pcs	
Resistor 4.7 K ohm	1 pce	
RGB LEDs	2 pcs	with polarity!
IC	1 pce	with polarity!
Transistor	1 pce	with polarity!
Battery holder	1 pce	with polarity!
Buzzer	1 pce	with polarity!

Follow this sequence of soldering:

1. solder the four 1K ohm resistors they are at these positions with blue lines:



2. Solder the 4.7K ohm resistor to the position marked with red line

3. Solder the transistor and mind the shape this component has polarity if you solder it not following the white mark shape it will not work

4. Solder the IC note that it has polarity. The first pin of the IC is with square pad on the PCB, also IC has mark on the white print you should put it to match the mark on the IC.

5. Solder the Buzzer – it has polarity on the plastic body there is + and – marks. The plus mark should be placed on the square pad on the PCB.

6. Solder the RGB LEDs, note that they have polarity! The LEDs have one leg longer than the other three. Place this leg on the square PCB pad , it has also printed DOT next to the PCB pad.

7. Solder the two switches, they have no polarity

8. Solder the battery holder, it has polarity:

9. Place two batteries in the battery holder: