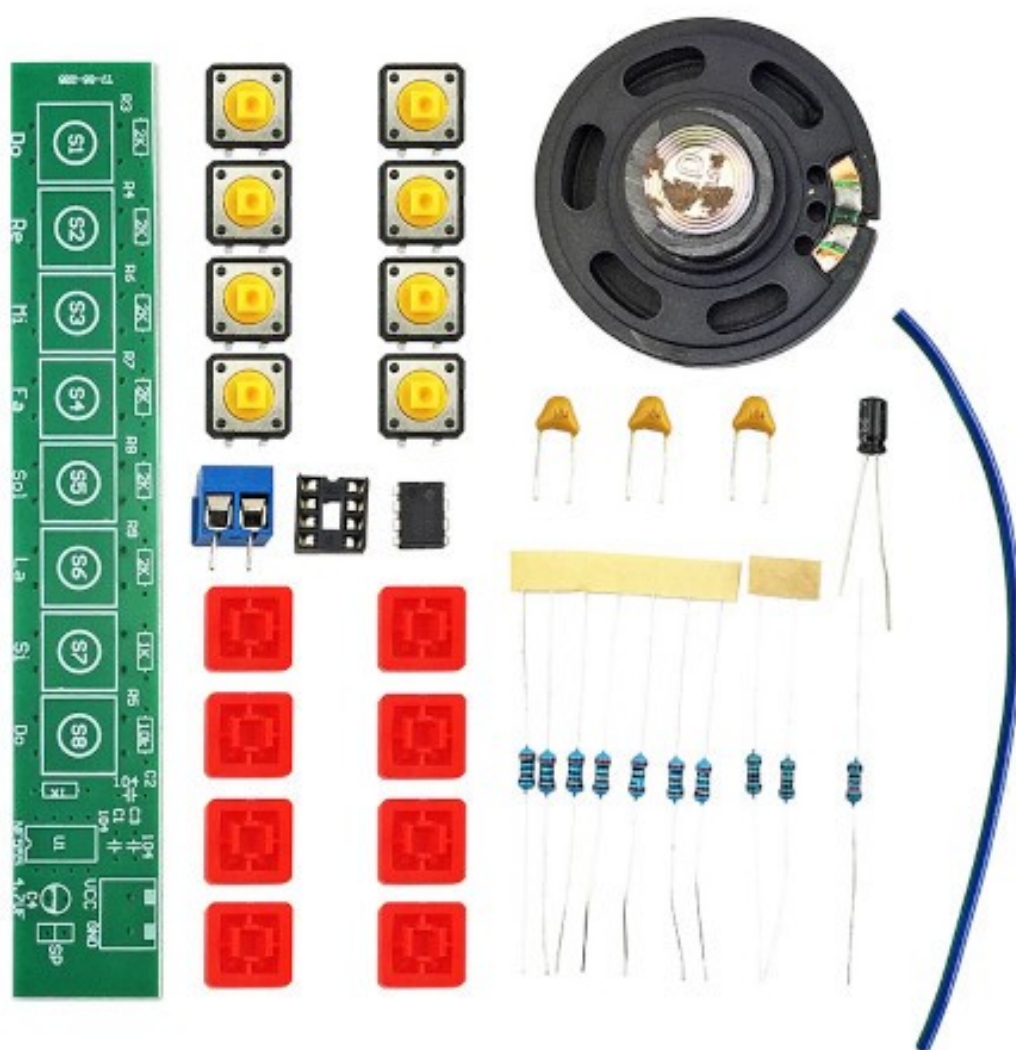


SOLDERING KIT PTH PIANO



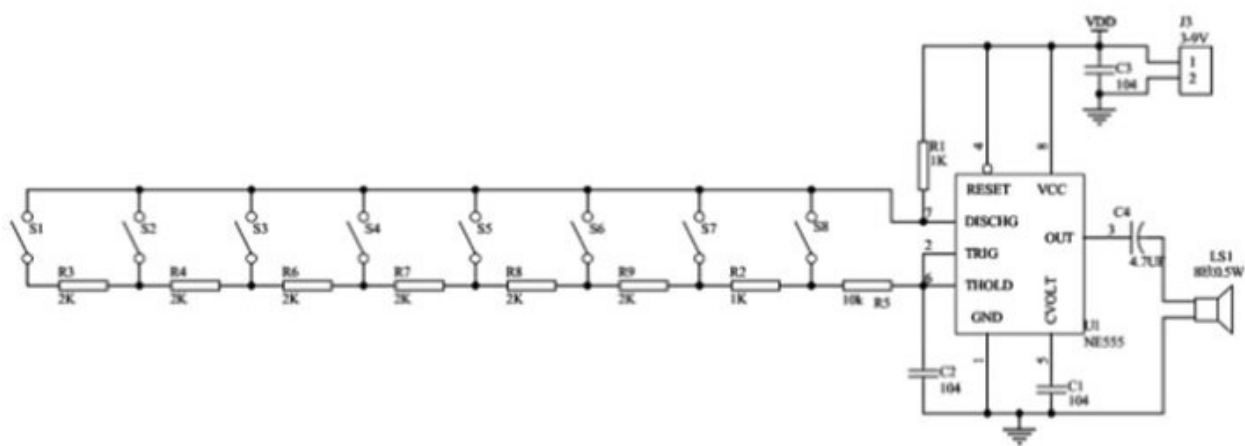
Necessary tools:

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.

SLD-KIT-PTH-PIANO schematic



Assembly instructions:

List of Components:

R1, R2	1 K ohm	2 pcs	
R5	10 K ohm	1 pcs	
R3,R4,R6,R7,R8,R9	2 K ohm	6 pcs	
C1, C2, C3	100 nF	3 pcs	(104 mark on the body)
C4	4.7 uF	1 pce	with polarity!
S1,S2,S3,S4,S5,S6,S7,S8	buttons wit caps	8 pcs	
Terminal 8 pins		1 pce	with polarity!
IC socket 8 pin		1 pce	with polarity!
IC 555 8 pin		1 pce	with polarity!
Speaker wire 5 cm		1 pce	
Speaker 8 ohm 0.5W		1 pce	

Follow this sequence of soldering:

1. Solder all resistors to their places
2. Solder C1-C3 capacitors
3. Solder C4 the white strip on the capacitor body to match the white mark on the PCB.
4. Solder the IC socket, note the mark on the PCB.
5. Solder the S1-S8 switches
6. Solder the speaker with the wire
7. Solder the terminal block.
8. Insert the 555 IC in the socket, watch for the orientation!
9. Apply 3-12V to the terminal block, be careful there is + and – sign if you connect the power supply in reverse the circuit will be damaged.

