

## RF-01 FM Transmitter kit instructions

Rev. 1.0

June 2017 13

Produced by YIQI

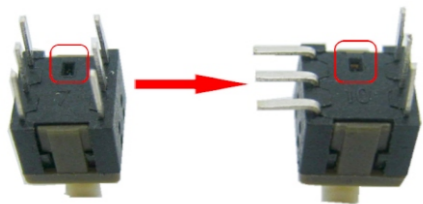
### Tools you need:

- ①Iron (30W)
- ②Solder wire
- ③Multimeter
- ④Tweezers
- ⑤Wire cutters

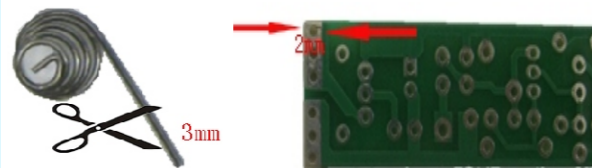
### Precautions:

- ①Check part values & quantities against part list
- ②Always meter resistor values before soldering
- ③Understand all part polarities and orientations

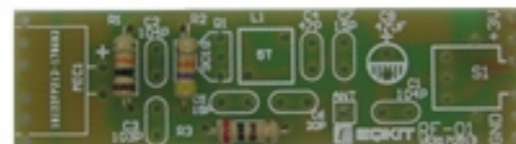
### 1. Reference chart the switch 90 degree bend



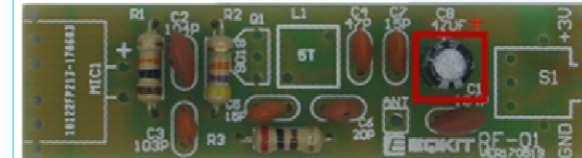
### 2. Reference pad width The pad is 2 mm wide Cut 4 spring pins off 2—3mm



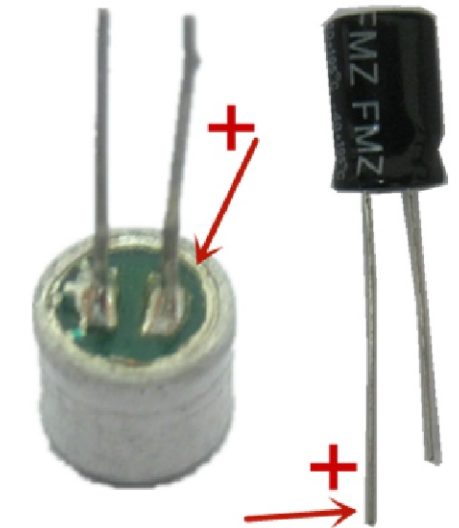
### 3. Install resistance: 10K to R1. 47K to R2. 200 ohm to R3



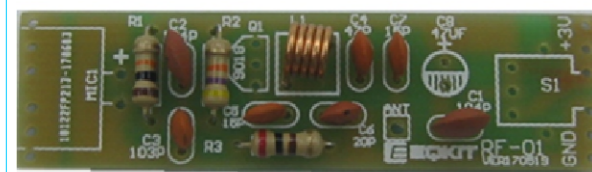
### 4. Install CAP : Refer to RF-01 Component list Install the capacitor to the C1-C8. Pay attention to the direction of C8



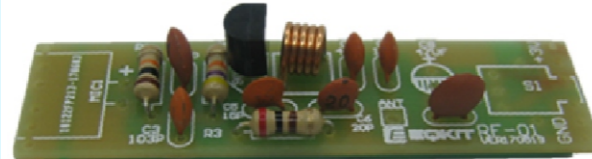
### Distinguish between the positive and negative electrodes of the MIC and electrolytic capacitors!



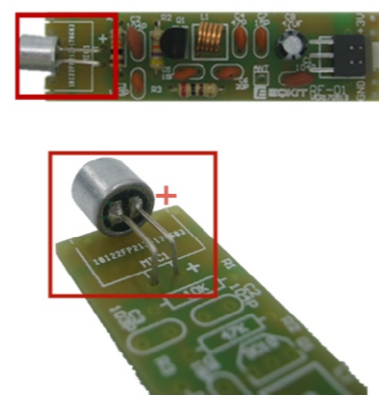
### 5. Fit the inductors into the L1



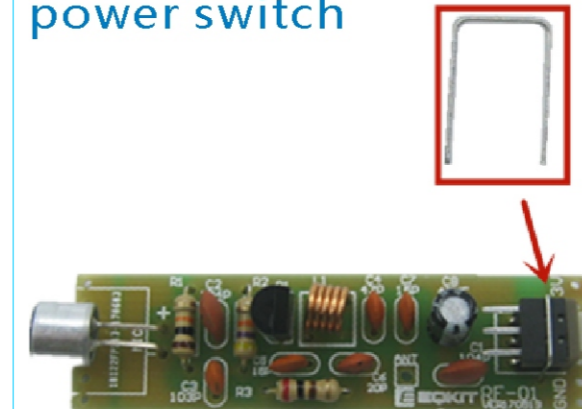
### 6. Install the transistor to the Q1



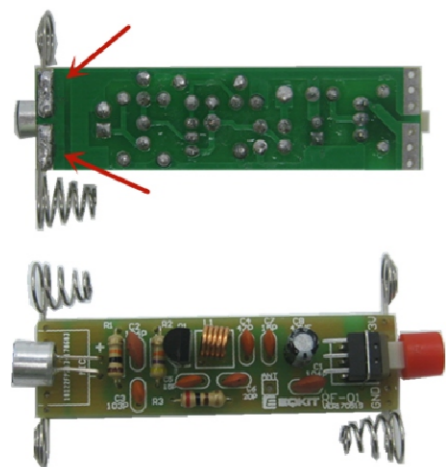
### 7. Install MIC. Be careful MIC positive electrode



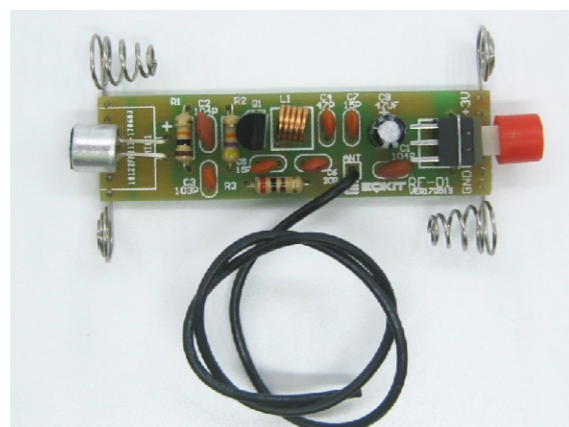
### 8. Install power switch Resistance pin reinforce power switch



### 9. Install battery spring.



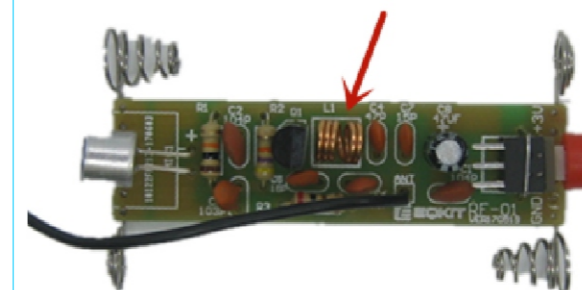
### 10. Install Antenna



### 11. check PCB correctness. Put the PCB in the battery box Put in 2 AAA batteries



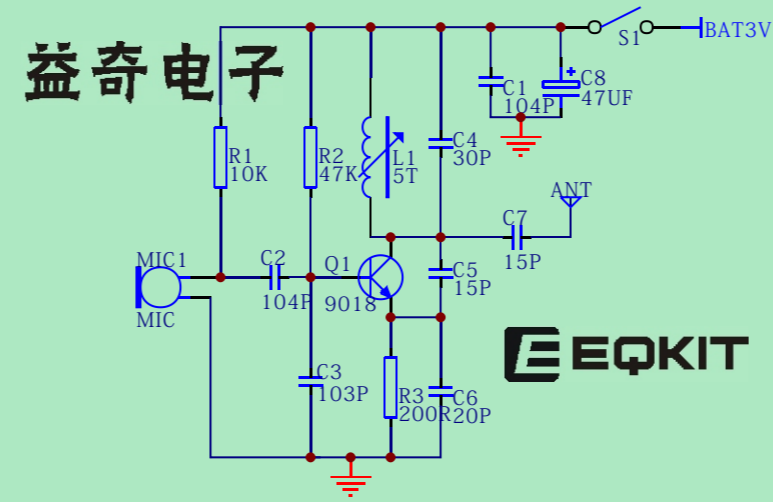
### 12. Test : The default transmit frequency is 70MHZ. poke L1 to make the transmit frequency to 88MHZ



### RF-01 Component list

NO.	Name	Mode	QTY
R1	RES	10K	1
R2	RES	47K	1
R3	RES	200R	1
L1	Inductor	5T	1
S1	Switch	5.8*5.8mm	1
S1	Switch cap	F6*H5	1
Q1	Triode	S9018	1
MIC1	Microphone	5*6mm	1
C8	E. C	47uF/16v	1
C5. C7	Cap	15pF	2
C6	Cap	20pF	1
C4	Cap	47pF	1
C3	Cap	103P	1
C1. C2	Cap	104P	2
—	Cell shrapnel	7# Φ 7mm	2
—	Cell shrapnel	7# Φ 7mm	2
—	Shell	55*35*15 (mm)	1
—	RF-01PCB	49mm*14mm	1
ANT	Wire (Give)	200mm	1

Schematic:



Title		
Size	Number	Revision
A4		
Date:	14-Jun-2017	Sheet of
File:	E:\longyong.ddb	Drawn By: