

Tools you need.

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

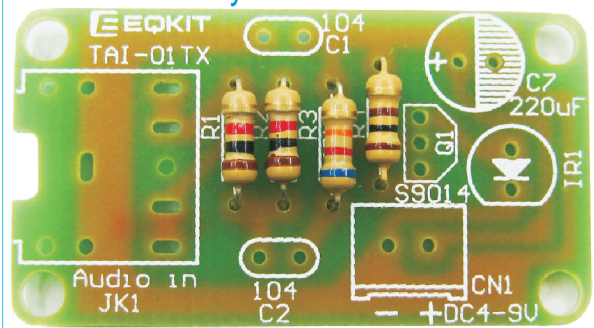
Precautions:

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

TAI-01 Infrared audio transceiver kit instructions
Rev. 1.0 May 2, 2018 Produced by YiQi

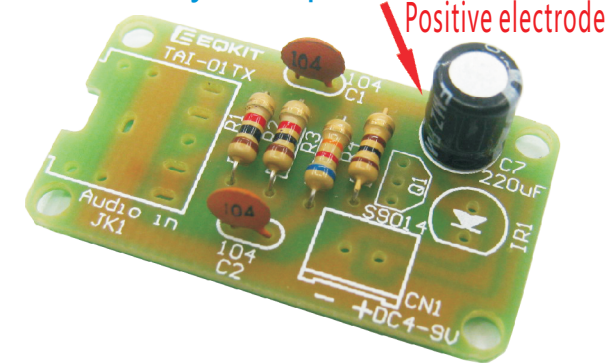
Install TX-PCB :

1. Install RES. Refer to the picture below or list of shipments on the right. Install the resistor correctly to the circuit board.



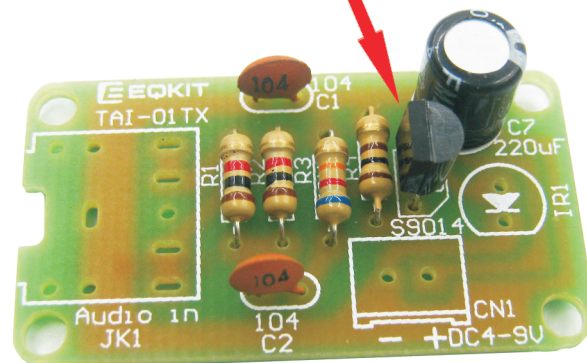
2. Install cap.

C1.C2=104pF,C7=220uF
Pay attention to distinguish positive and negative electrode of electrolytic capacitor



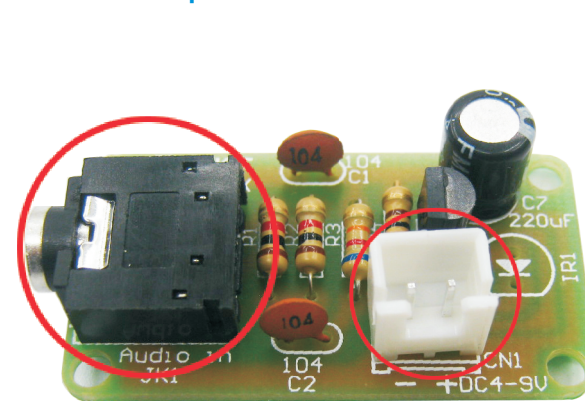
3. Install Triode.

Q1=S9014
Pay attention to the direction of installation.

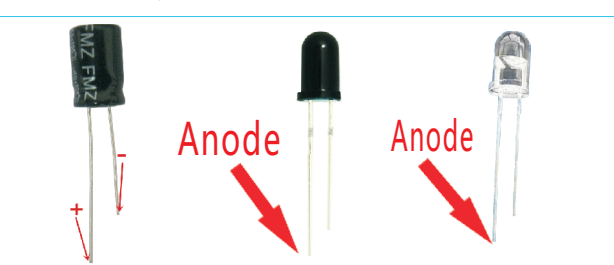


4. Install the input interface.

Audio input to JK1.
Power input to Cn1.



Warning
Infrared transceiver diode and electrolytic capacitor the longer pin is the anode it should be installed on the rectangle pad of PCB:



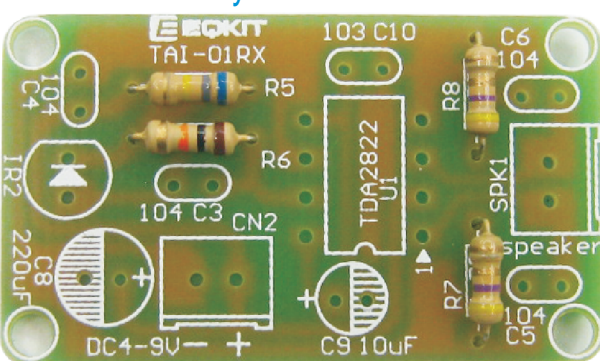
5. Install IR1.

Refer to the picture below ,
Install the infrared emitter to IR1
Pay attention to the difference between the anode and the cathode



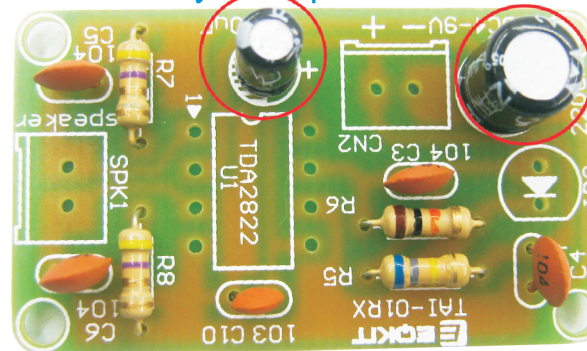
Install RX-PCB :

6. Install RES:Refer to the picture below or list of shipments on the right. Install the resistor correctly to the circuit board.



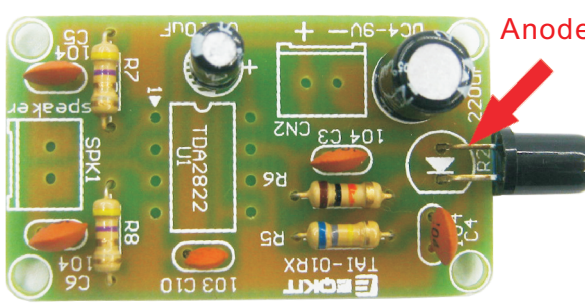
7. Install cap.

C3~C6=104pF.C8=220uF
C10=103pF.C9=10uF Distinguish positive and negative electrode of electrolytic capacitor



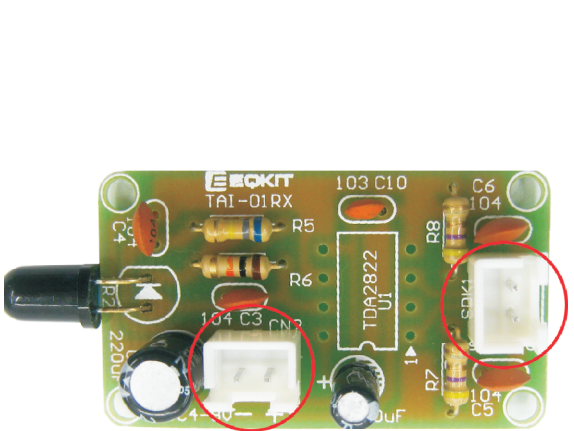
8. Install IR2.

Refer to the picture below
Install the black receiving diode to IR2. Pay attention to the difference between the anode and the cathode



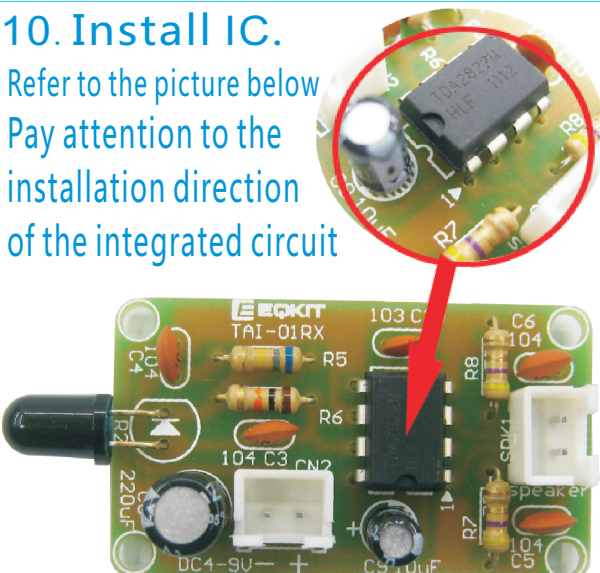
9. Install the line sea:

Attention direction at installation



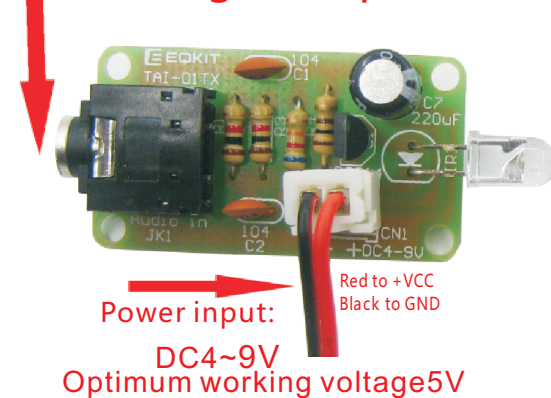
10. Install IC.

Refer to the picture below
Pay attention to the installation direction of the integrated circuit

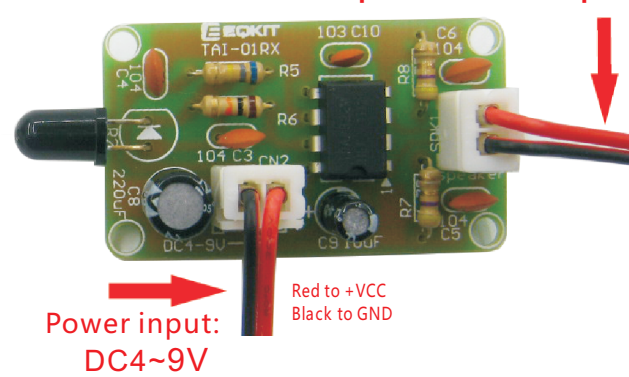


11. Wiring instructions:

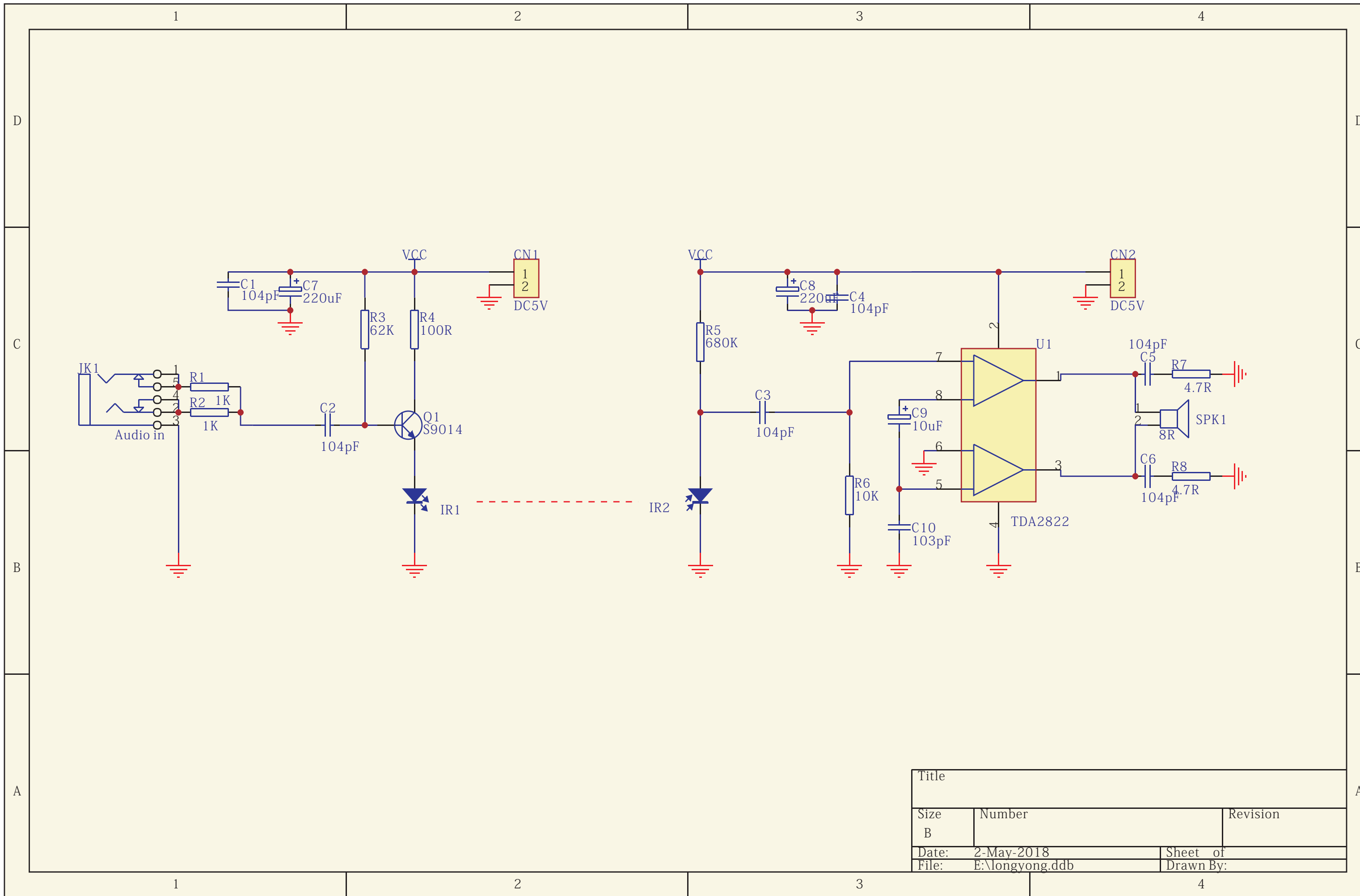
Audio signal input



Speaker output



TAI-01 Infrared audio transceiver component list			
NO.	Name	Parameter	QTY
R7, R8	RES	4. 7R	2
R4	RES	100R	1
R1, R2	RES	1K	2
R6	RES	10K	1
R3	RES	62K	1
R5	RES	680K	1
C10	CAP	103P	1
C1~C6	CAP	104P	6
C9	ECAP	10uF	1
C7, C8	ECAP	220uF	2
IR1	TX-diode	φ5MM	1
IR2	RX-diode	φ5MM	1
Q1	Triode	S9014	1
U1	IC	TDA2822	1
CN1, CN2, SPK1	Socket	2P2. 54	3
CN1, CN2, SPK1	2P-Cable	2. 54mm	3
JK1	Audio-Socket	5P-stereo	1
JK1	Audio-Cable	100cm	1
-	PCB	TAI-01RX	1
-	PCB	TAI-01TX	1



Title		
Size	Number	Revision
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Date:	2-May-2018	Sheet of
File:	E:\longyong.ddb	Drawn By: