

ECL-132 Blue Supersized Screen Display Remote Control Clock DIY Kit

1. Introduction.

1>. It is DIY kit. User need to weld it.

2>. ECL-132 remote control clock can display clock by 132pcs 5mm LEDs. Display character's size is 81*43mm(High*With). Kit's size is 229*89mm with black filter plate。

2. Overview.

1>. Model: ECL-132

2>. Name: Supersized Screen Display Remote Control Clock DIY Kit

3>. Size:233*93*30mm

4>. Work Voltage:5V

5>. Work Current:30-50mA

3. Instruction.

NOTE: There are 6 buttons on remote controller,but just 5 button have function. The uppermost button have no function.

1>. Button Function.

Middle button: Main Menu.

Top button: Increase

Bottom button: Reduce

Right button: Right Options

Left button: Left Options

1). Adjust the time submenu: Flashing LED is the current selected bits. Right 2bits can adjust hours and left 2bits can adjust minutes by other four buttons. Press Middle button save and quit this options, and enter to alarm settings submenu.

2). Alarm settings submenu:

It is the master switch for 5 channels alarm at first. The first bit display "C" and the last 2 bits flash and display "on" or "OF". Top button and Bottom button can switch on /OF. If select "OF", Then press Middle button enter to error correction submenu.

If select "on", Press Middle button to set the first channel alarm. The first 2bits display "C1" and the last 2 bits flash and display "on" or "OF". Top button and Bottom button can switch on /OF. If select "OF", Then press Middle button to set the second channel alarm.

If select "on", Press Middle button to set hour and minutes. Flashing LED is the current selected bits. Right 2bits can adjust hours and left 2bits can adjust minutes by other four buttons. Right button and left button can select hour and minutes. Top button and bottom button can set alarm time. Then Press Middle button to set the second channel alarm.

Then set other alarms by the same steps. After set the fifth alarm, press Middle button enter to error correction submenu.

3). Error Correction submenu:

The first bit display “n” and the last 2 bits flash and display “on” or “OF”. Top button and Bottom button can switch on /OF. If select “OF”, Then press Middle button to normal display.

If select “on”, Press Middle button to set correction parameter. The last 2 bits flash and represent days. Then press Middle to set second. Then press Middle button to normal display.

2>. [Button features shortcuts](#)

1). On normal display status, press top button can close or open display.

2). On normal display status, press bottom button can switch hour/minute or minute/second display. (Four LEDs in the middle will not flash or be lit on minute/second status).

3). On normal display status, press left button can set 5-channel alarm.

4). On normal display status, press right button to correcting second, LED will display “ESC”, after seconds, display minute/second and second bits flash. And after seconds, 4 bits flash. Make sure a accurate time then press middle button to set second and to normal display.

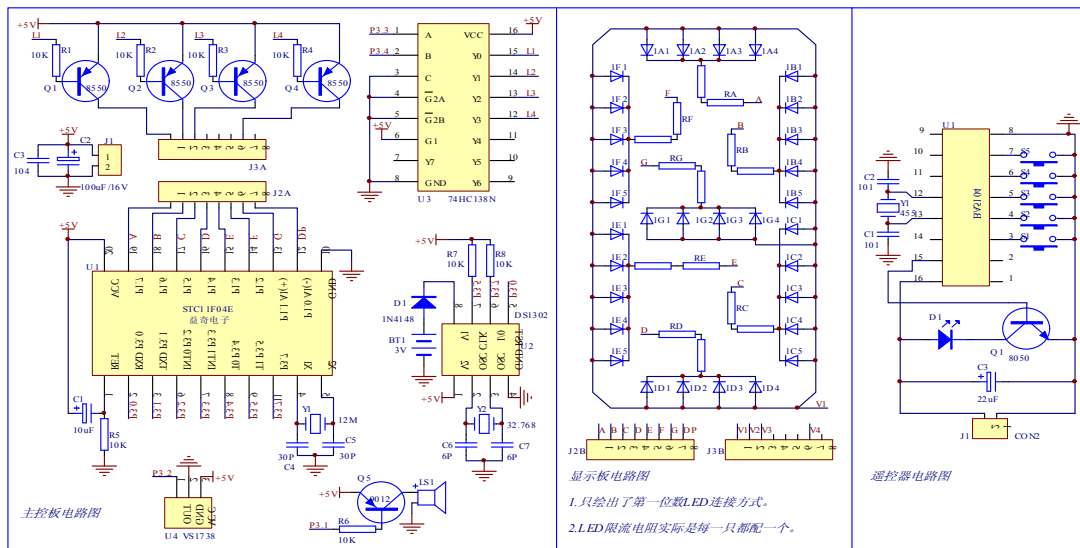
4. Component listing.

Component	Number	Parameter	Quantity
Remote control list:			
IC BA5104	U1	SOP-16	1
S8050	Q1	SOT-23	1
0805 Capacitor	C1,C2	100pF	2
Electrolytic capacitor	C3	22uF 25V	1
455E Crystal	Y1		1
Infrared Emitting LED	D1	3mm	1
CR2025 Battery shrapnel	J1		2
Screw		M1.4*3	5
PCB		76*30.5mm	1
Key Foil		83*38mm	1
Shell		86*40*6mm	1
Clock control kit list:			
Metal film resistor	R1-R8	10K	8
Ceramic capacitor	C6,C7	5pF	2
Ceramic capacitor	C4,C5	30pF	2
Ceramic capacitor	C3	0.01uF	1
Electrolytic capacitor	C1	10uF 25V	1
Electrolytic capacitor	C2	100uF 16V	1
1N4148	D1	DO-35	1
S8550	Q1-5	TO-92	5
Crystal	Y2	32.768KHz	1
Crystal	Y1	12MHz	1
STC11F04E	U1	DIP-20	1
DS1302	U2	DIP-8	1
74HC138N	U3	DIP-16	1
DIP-8 IC Socket	U1		1
DIP-16 IC Socket	U2		1
DIP-20 IC Socket	U3		1
Buzzer	LS1	5V	1
VS1738 Infrared receiver	U4		1
CR2025 battery box	BT1		1
1*8P Female pin	J2A,J3A	2.54mm	2
USB cable		80cm	1
PCB		70*43mm	1

Display screen kit list:			
Metal film resistor	R1A1-R4G4	220ohm	130
Metal film resistor	RA-RDP	330ohm	8
1*8P Male pin	J2B,J3B	2.54mm	2
Blue LED	1A1-4G4,1DP1,1DP2,2DP1,2DP1	5mm	132
Copper Cylinder		M3*9+6	6
Copper Cylinder		M3*15	6
Screw		M3*5	12
Filter plate			1
Aluminum box			1
PCB		229*89mm	1

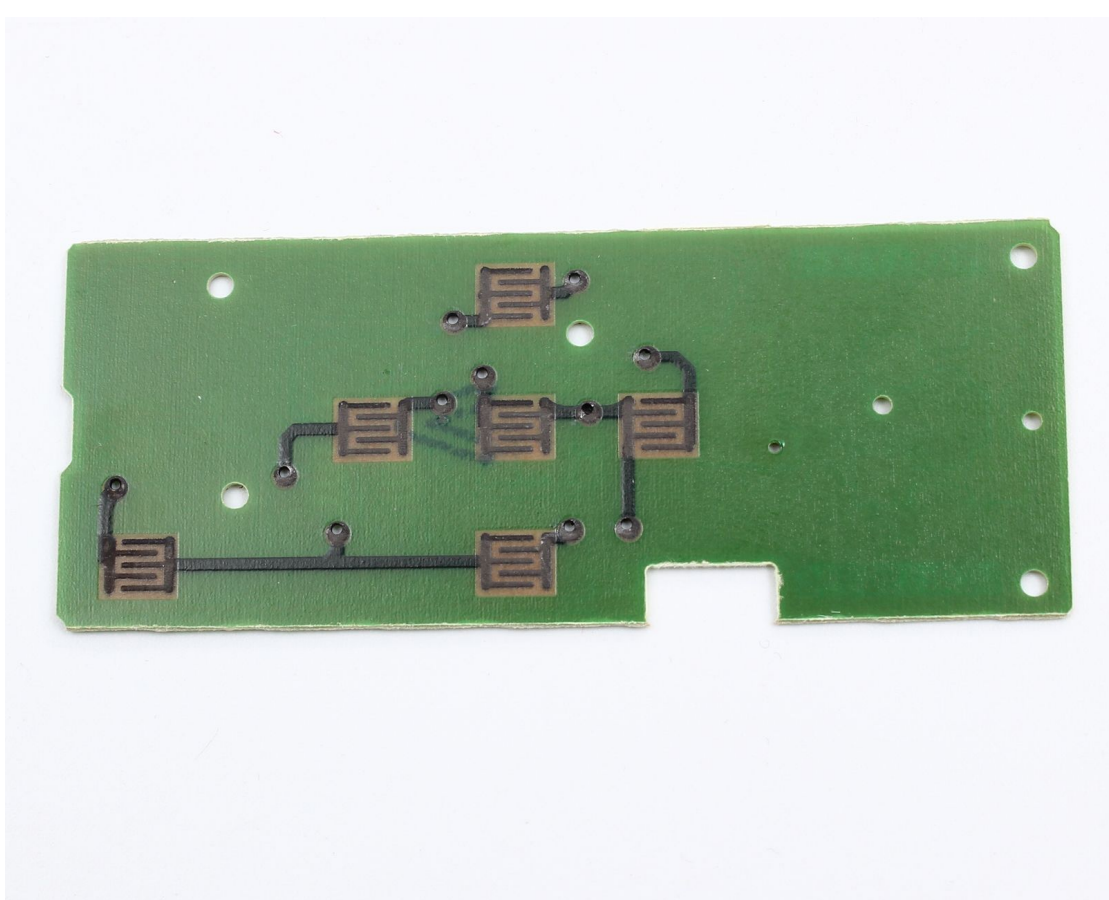
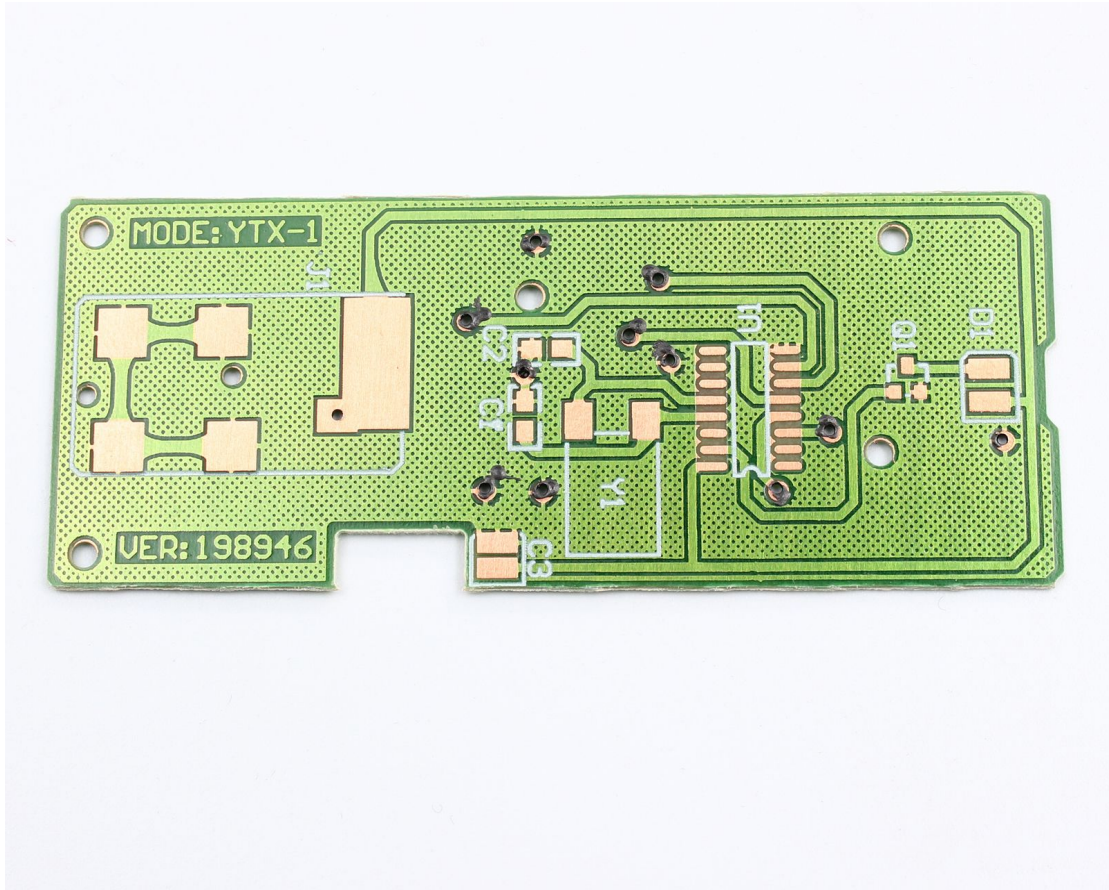
NOTE:Remote control kit and clock control kit need a CR2025 battery respectively

5. Schematic.

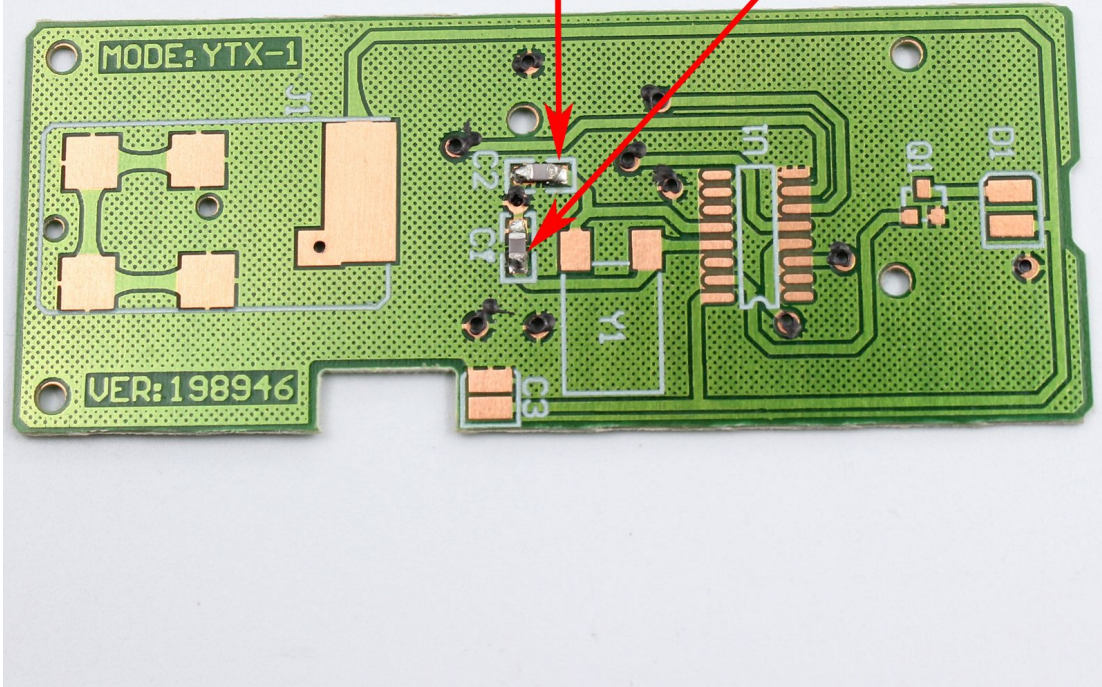


6. Installation Steps

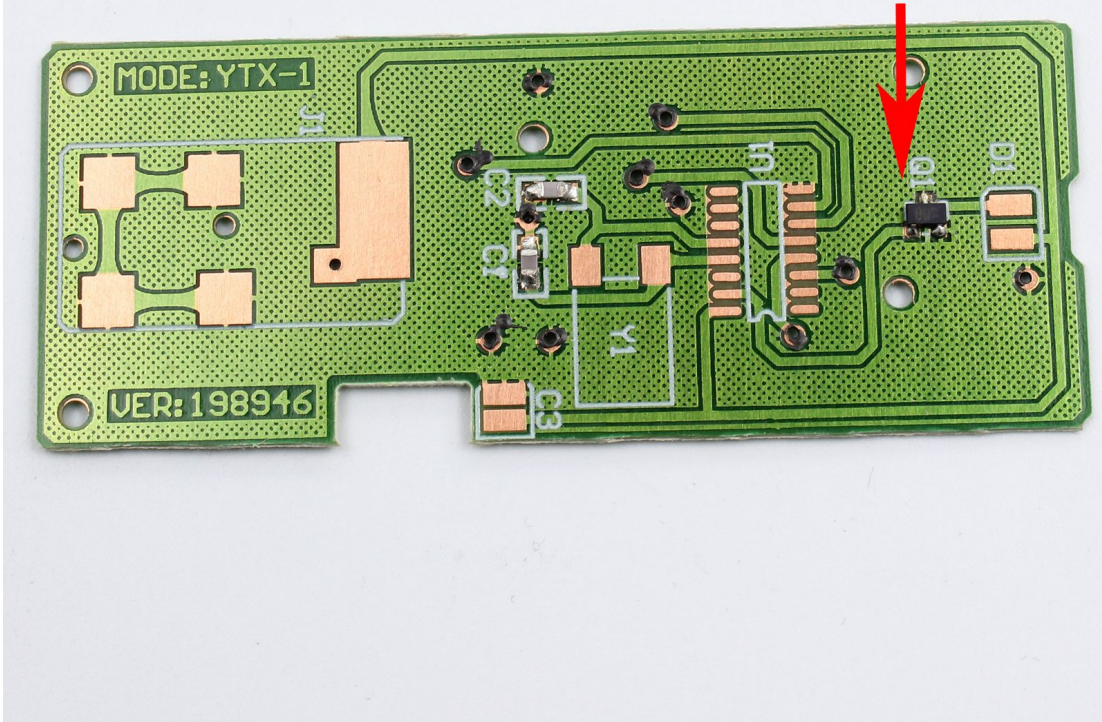
1>. Remote control kit install steps:

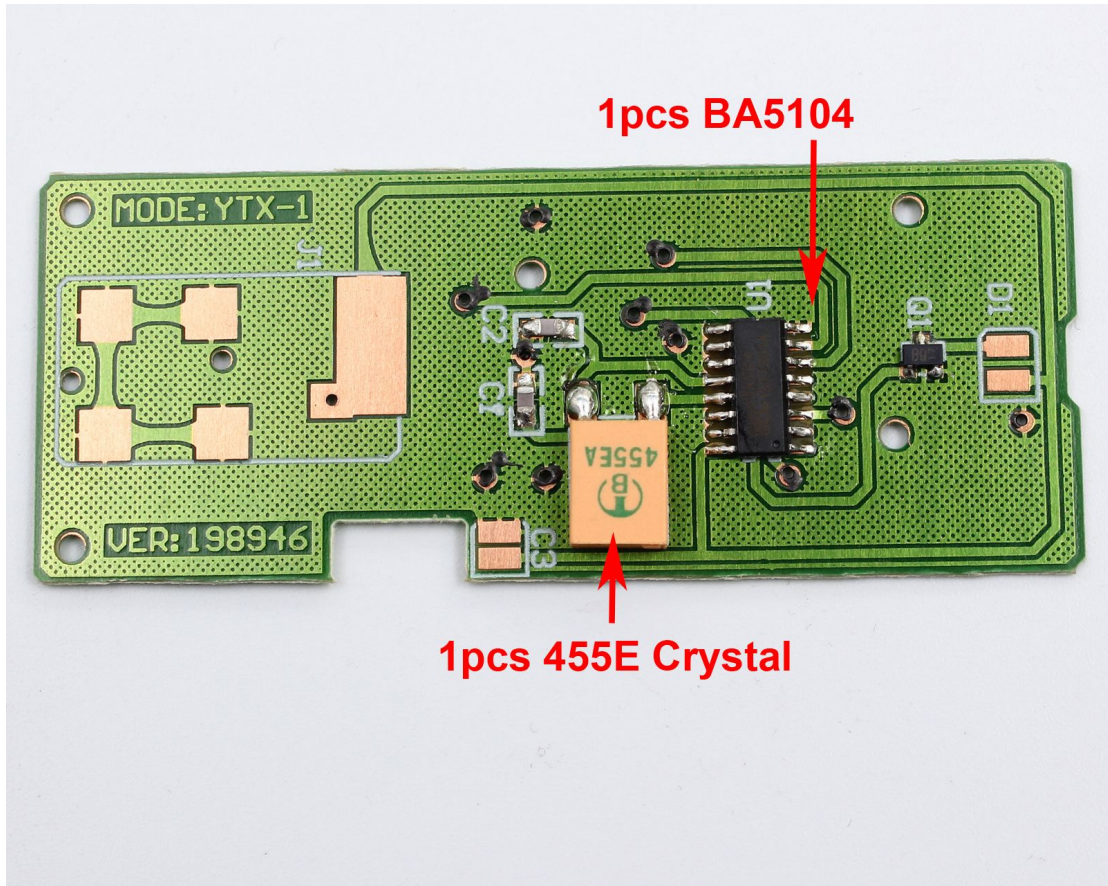


2pcs 0805 Capacitor 100pF



1pcs S8050 SOT-23

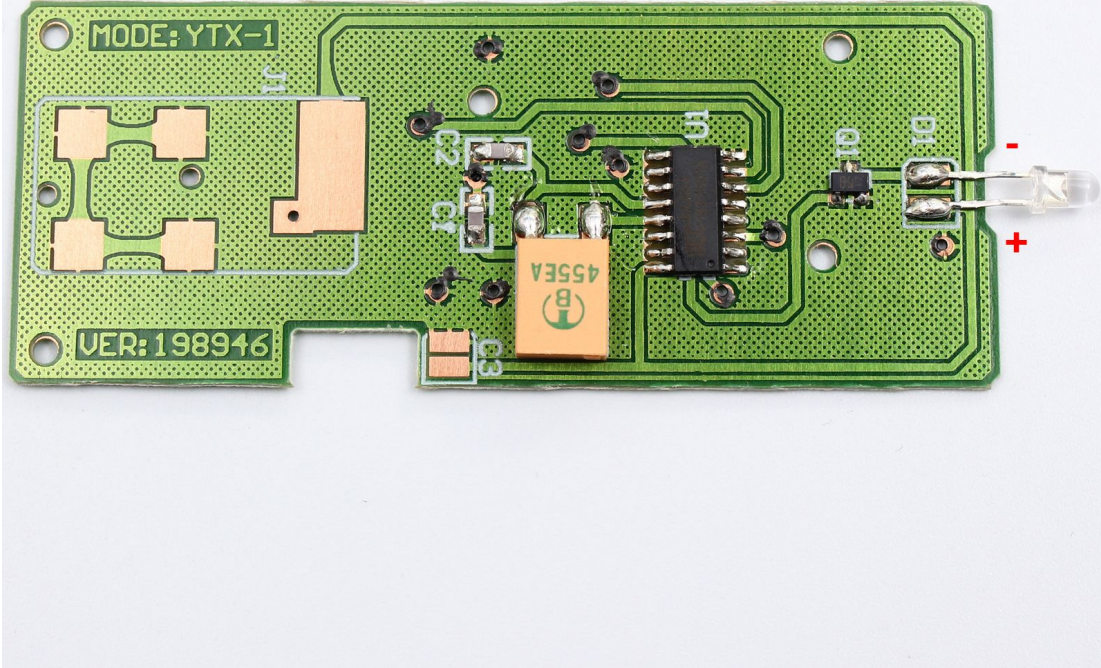




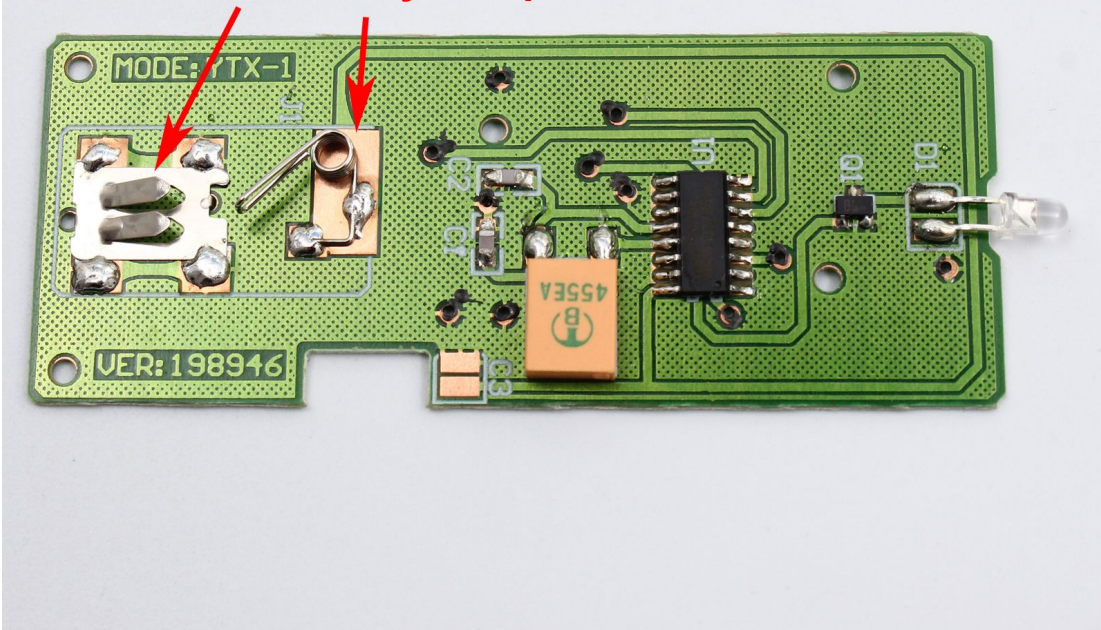
In order to easy installation, infrared LED's pin need be curved appropriately.



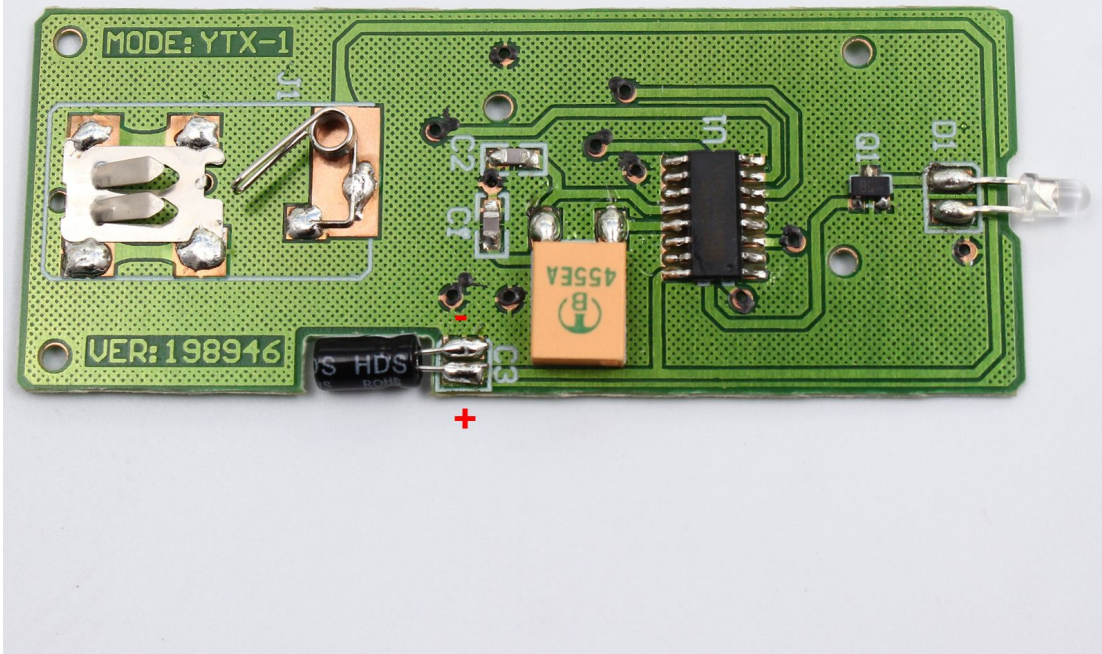
1pcs Infrared LED



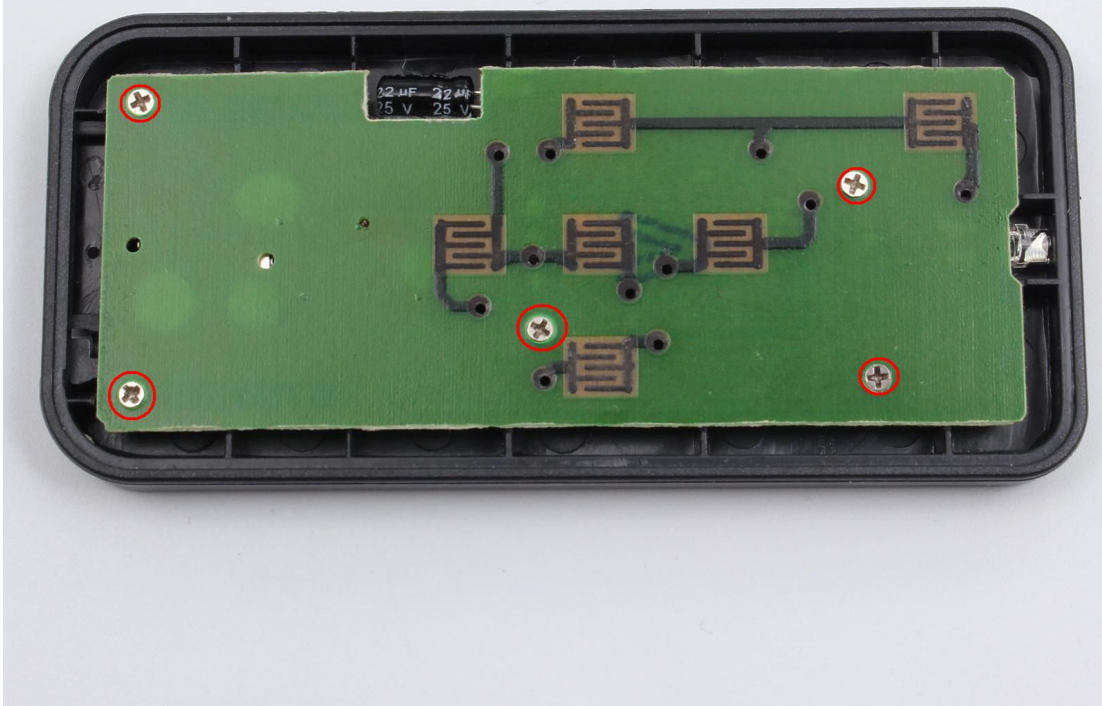
CR2025 Battery shrapnel



1pcs 22uF Electrolytic capacitor



Install screws. Do not have raised

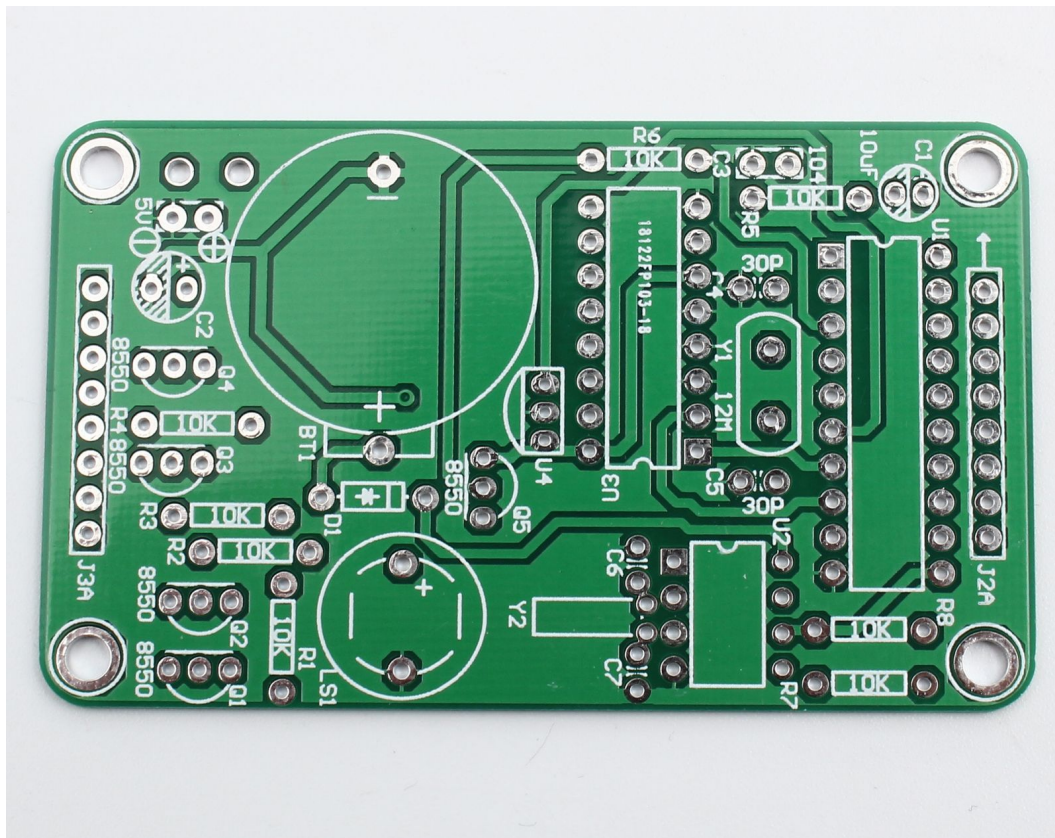


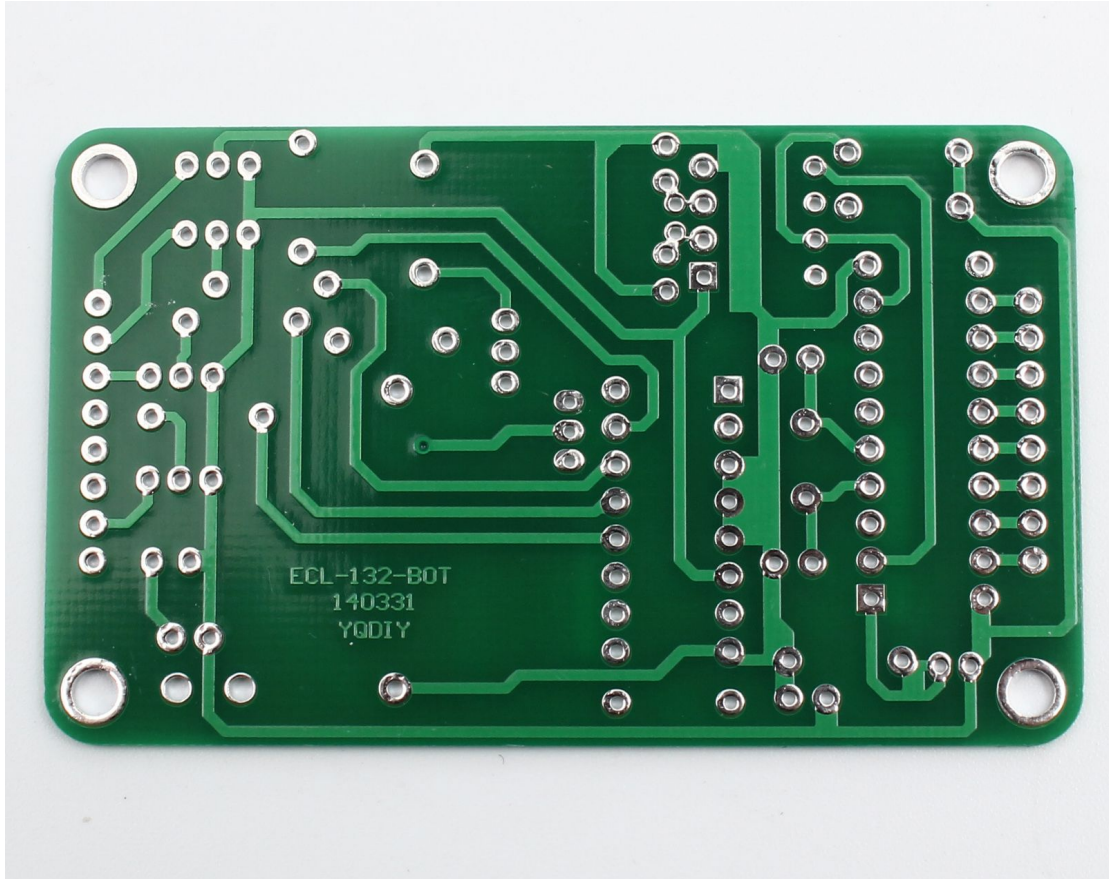
Paste Key Foil



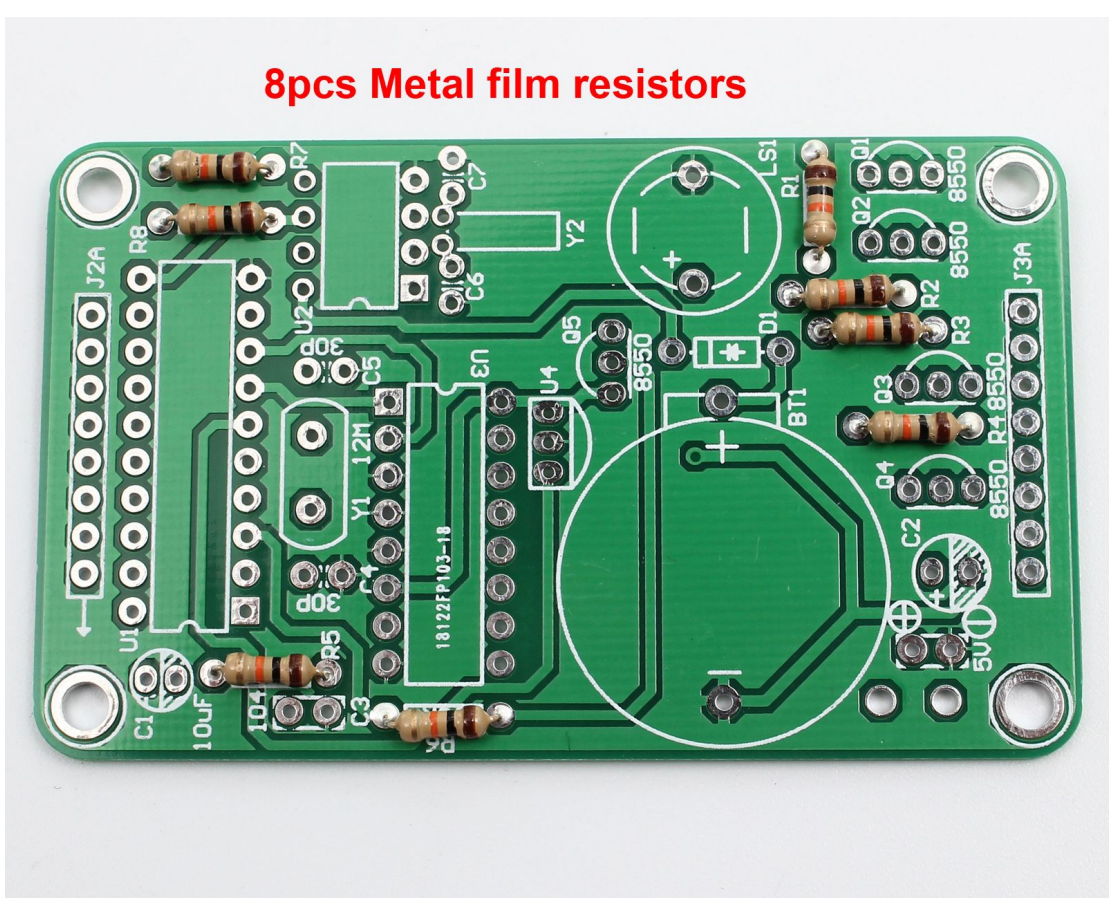


2>. Clock control kit install steps:



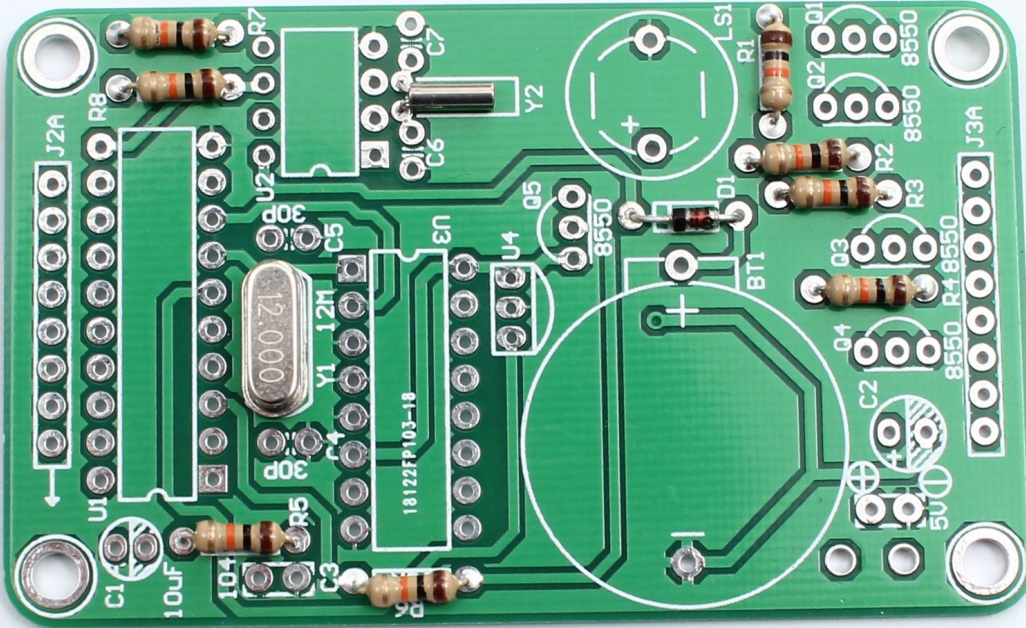


8pcs Metal film resistors



1pcs 32.768KHz Crystal

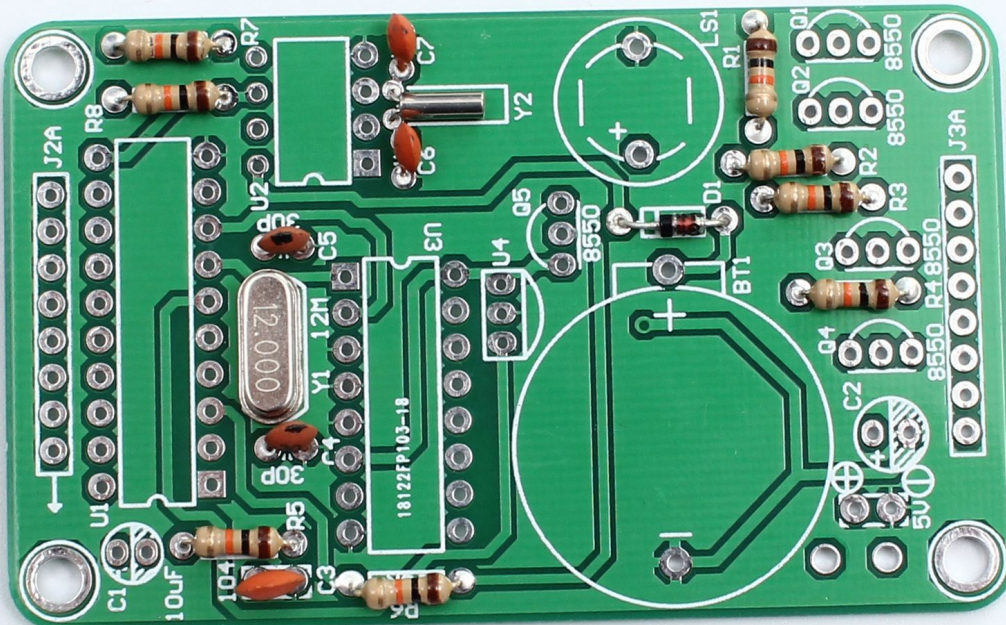
1pcs 12MHz Crystal



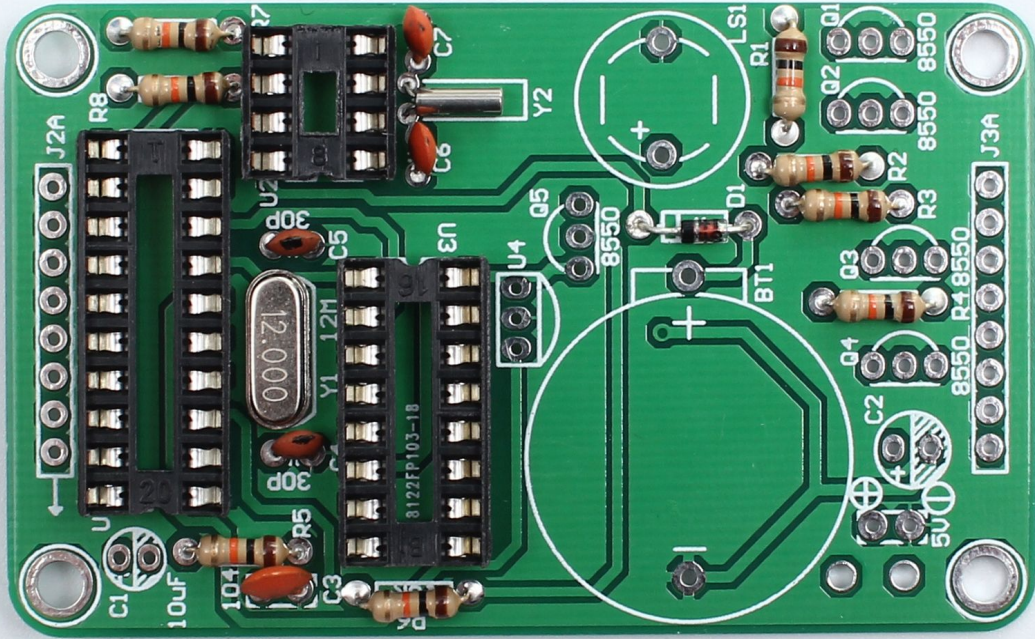
1pcs 1N4148 Diode.

Pay attention its Polarity

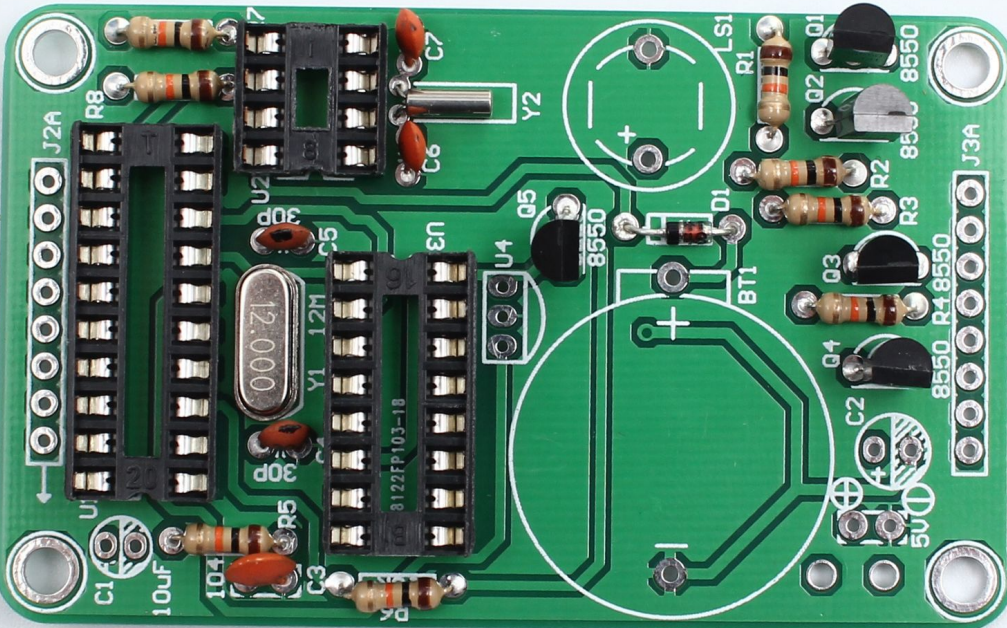
5pcs Ceramic capacitors



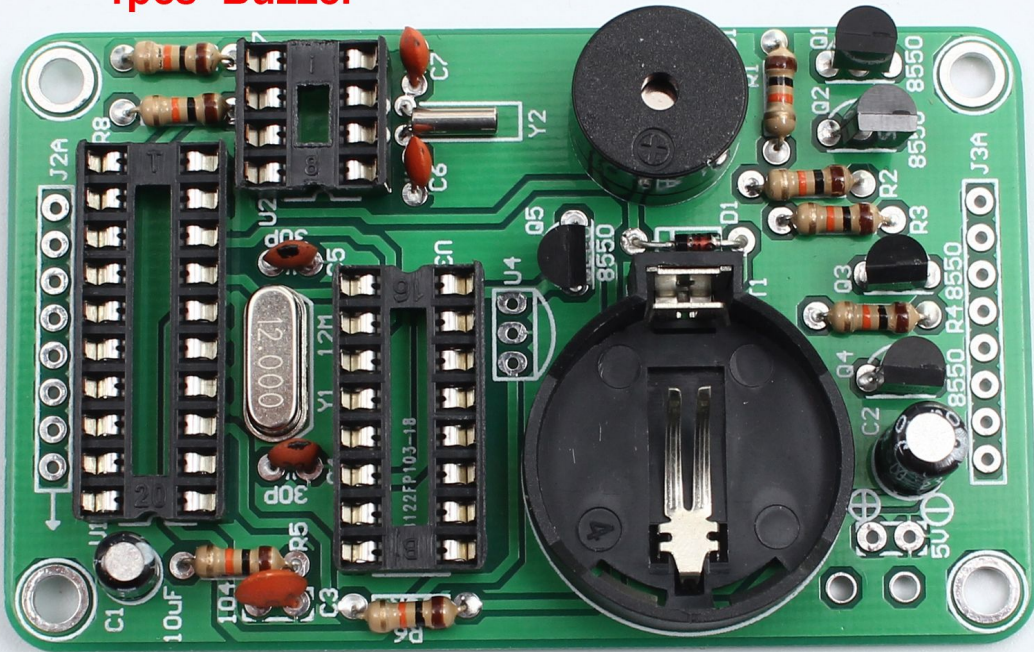
3pcs IC Sockets



5pcs S8550

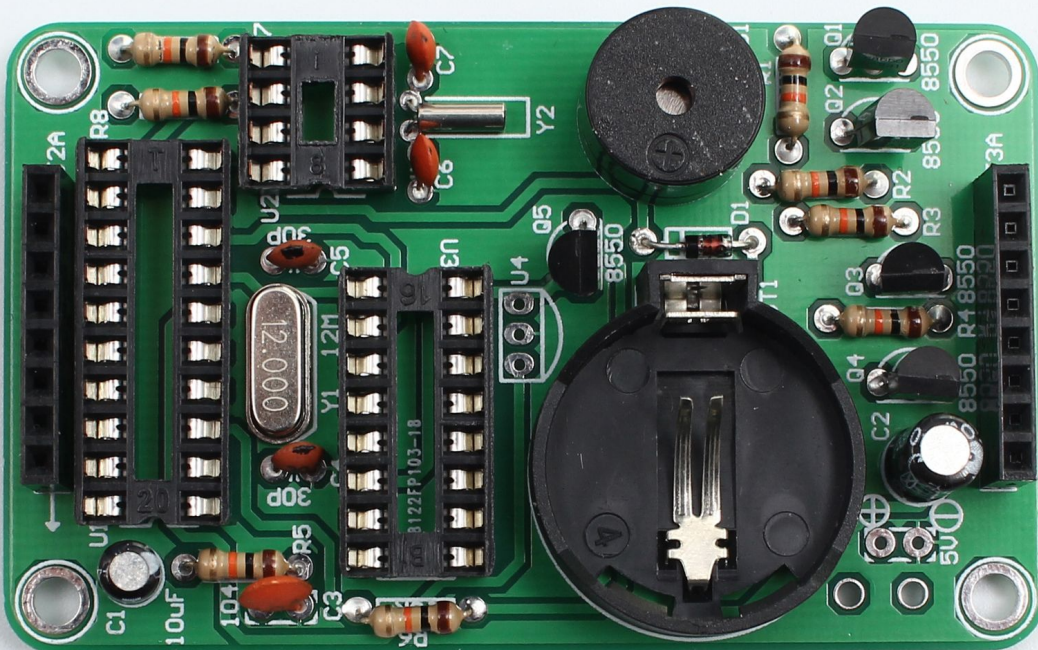


2pcs Electrolytic capacitors
1pcs Buzzer

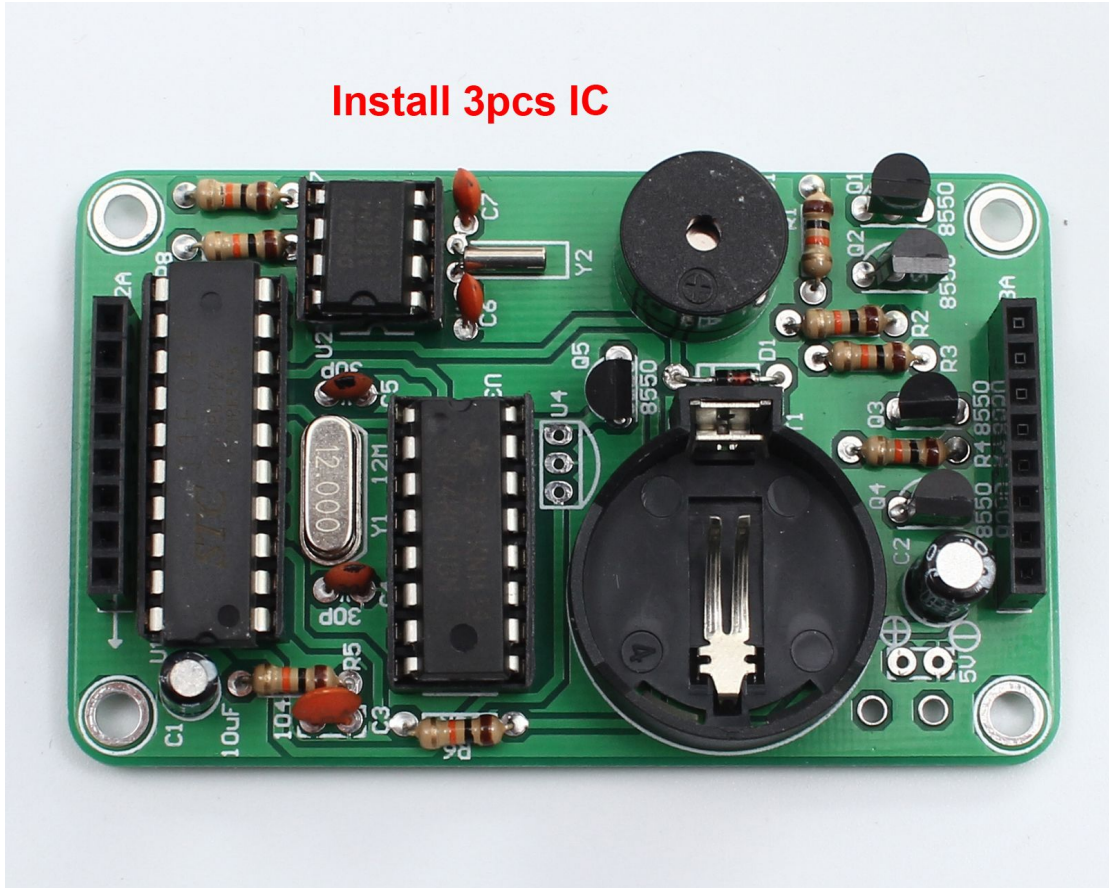


1pcs CR2025 battery socket

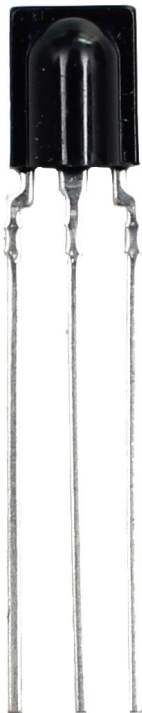
2pcs 1*8P Female pin



Install 3pcs IC



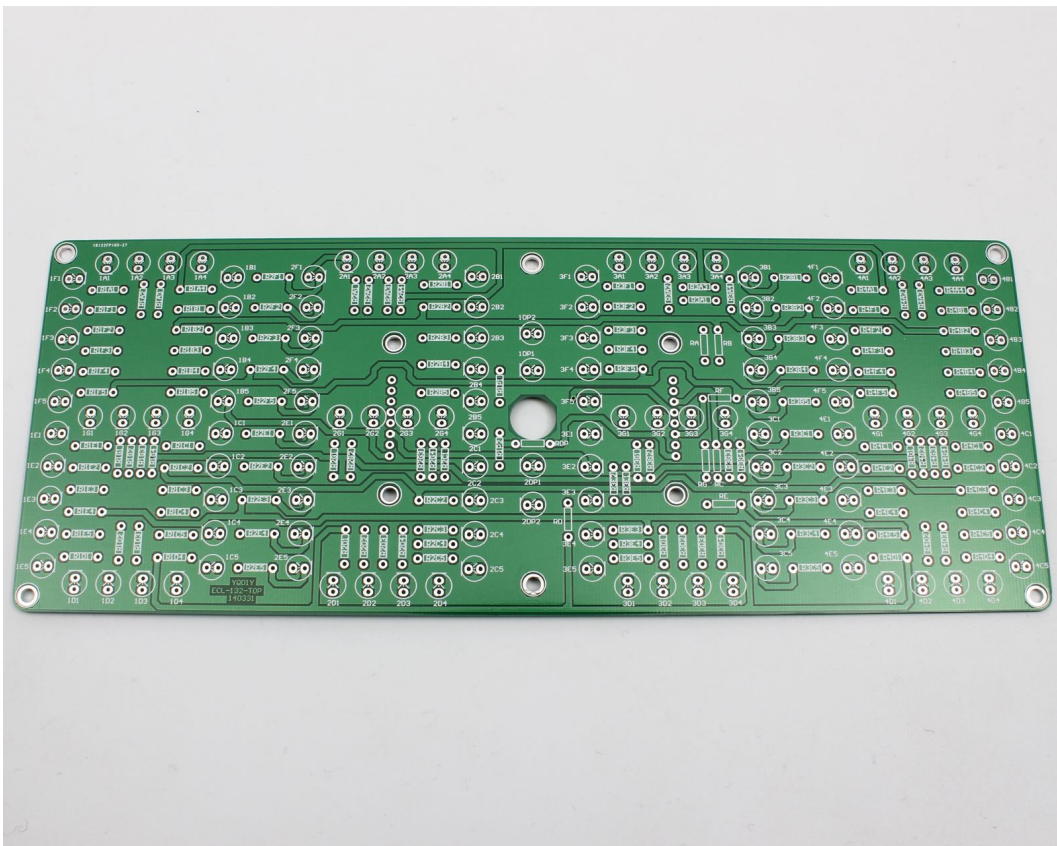
Curved VS1738 Infrared receiver

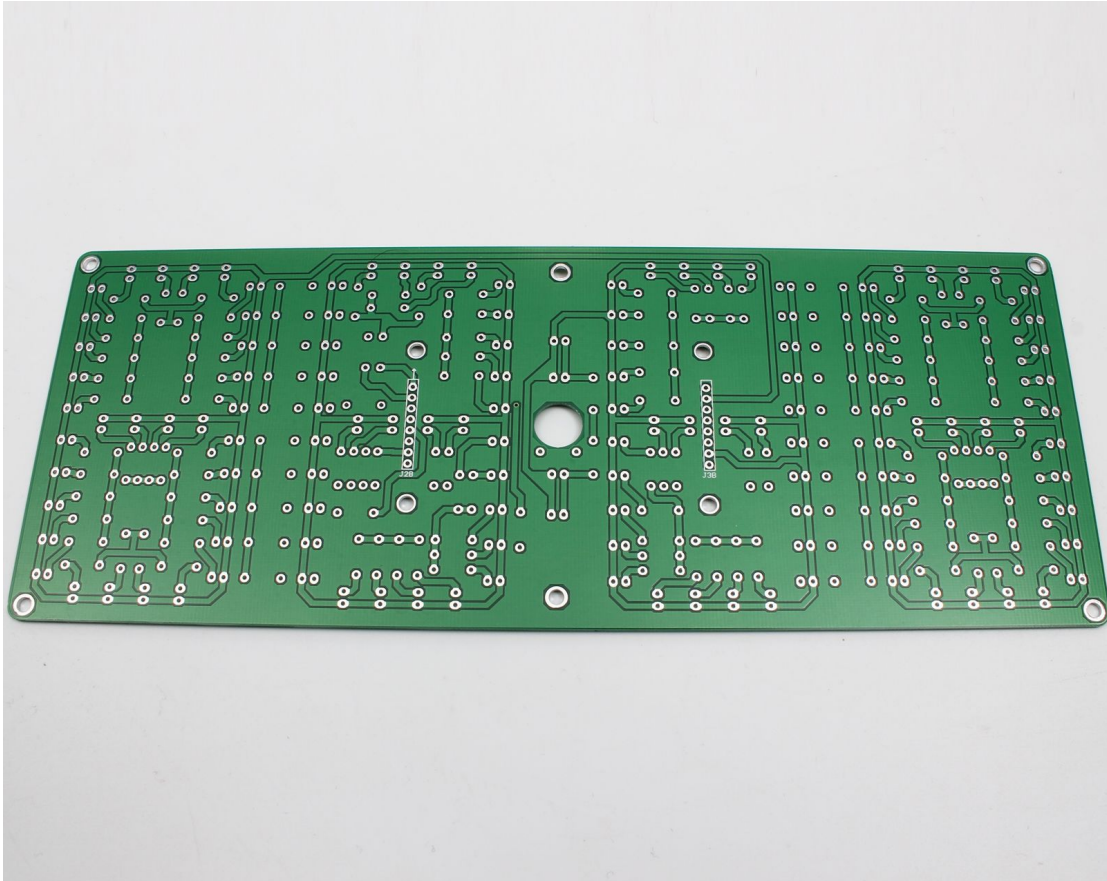


1pcs VS1738 Infrared receiver

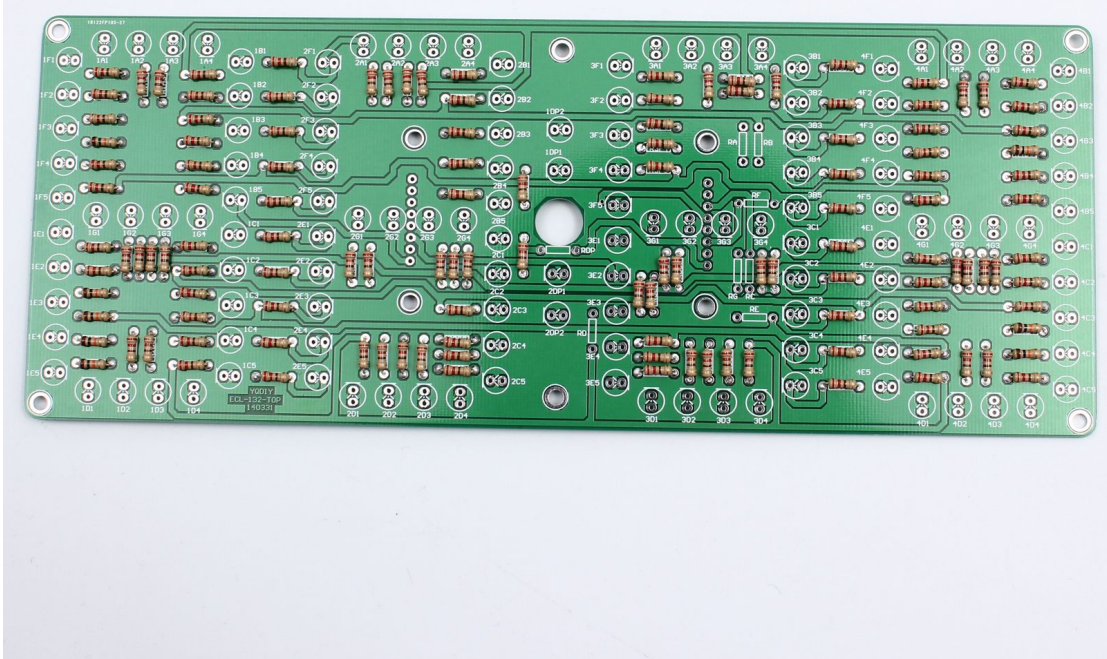


3>. Display screen kit install steps:

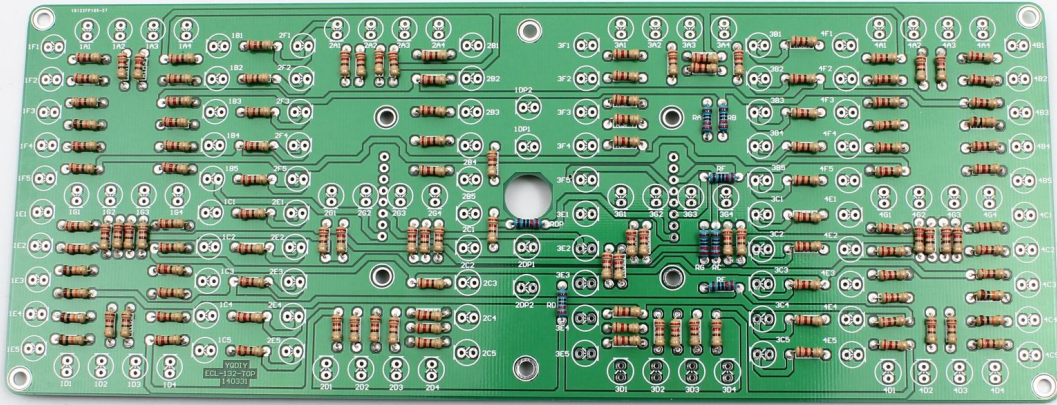




130pcs Metal film resistors

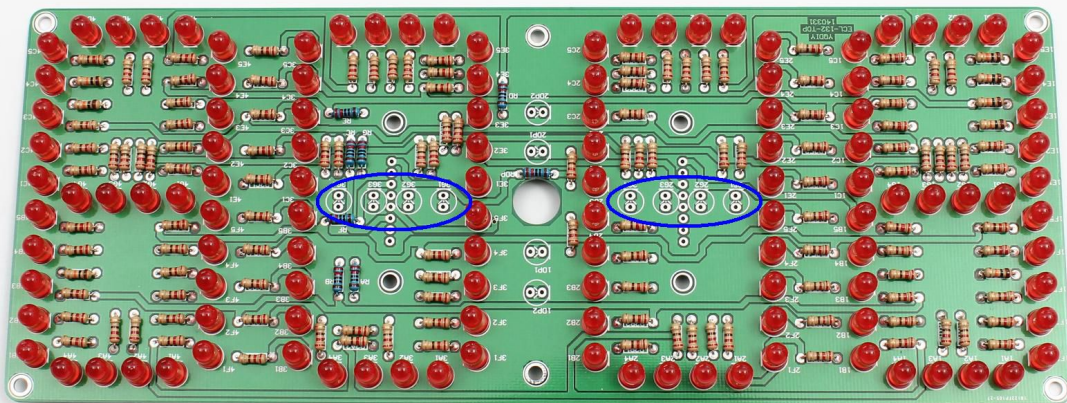


8pcs Metal film resistors

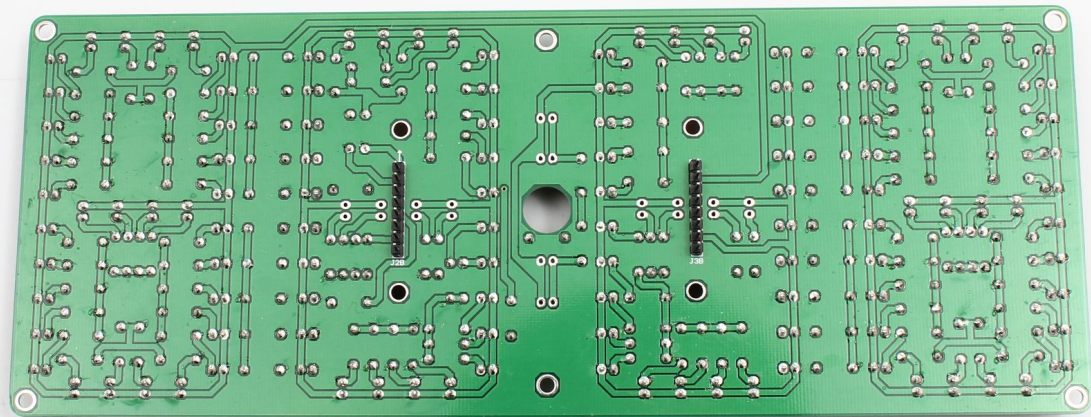
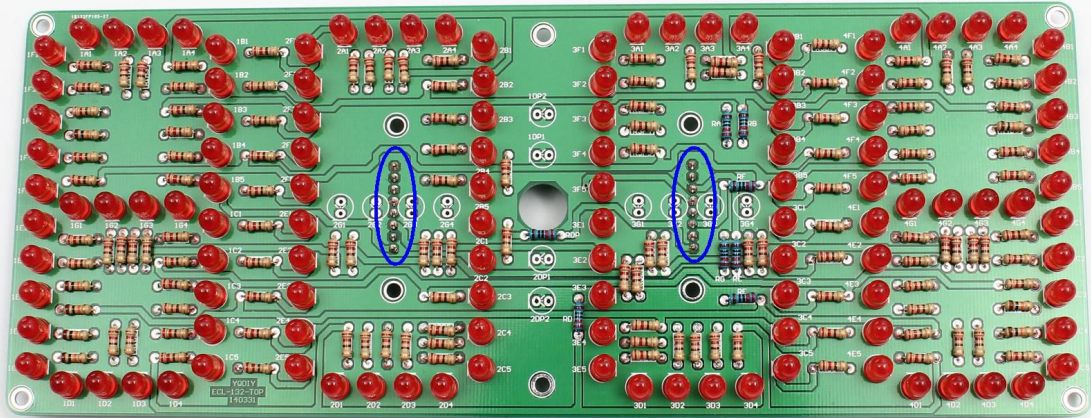


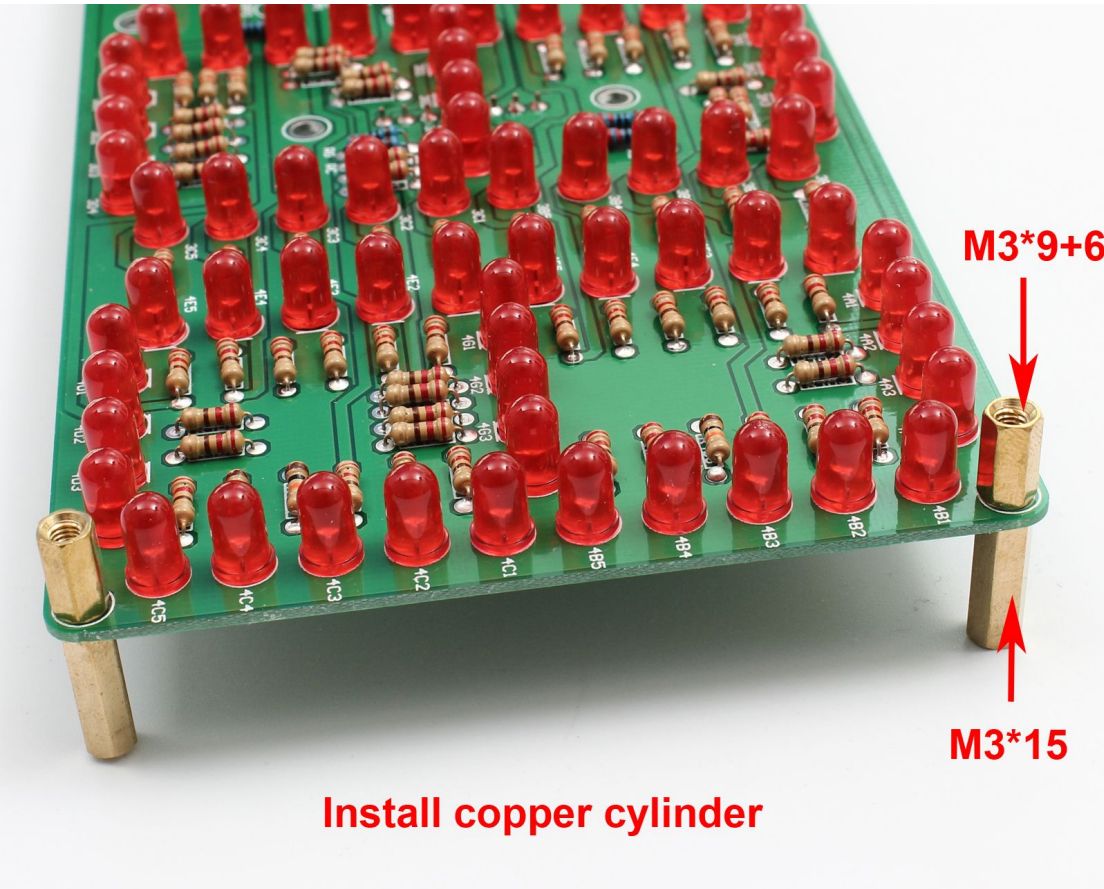
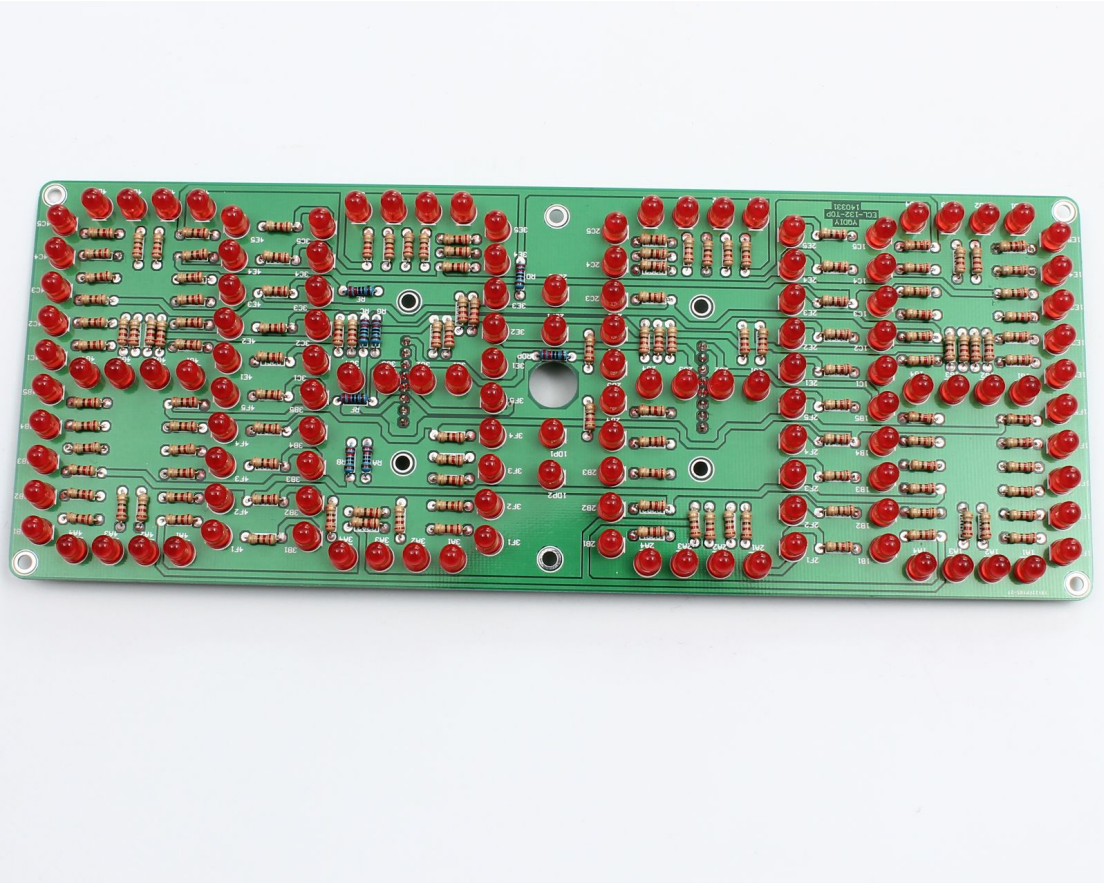
124pcs LED

Do not weld 8pcs LED in blue circle at first



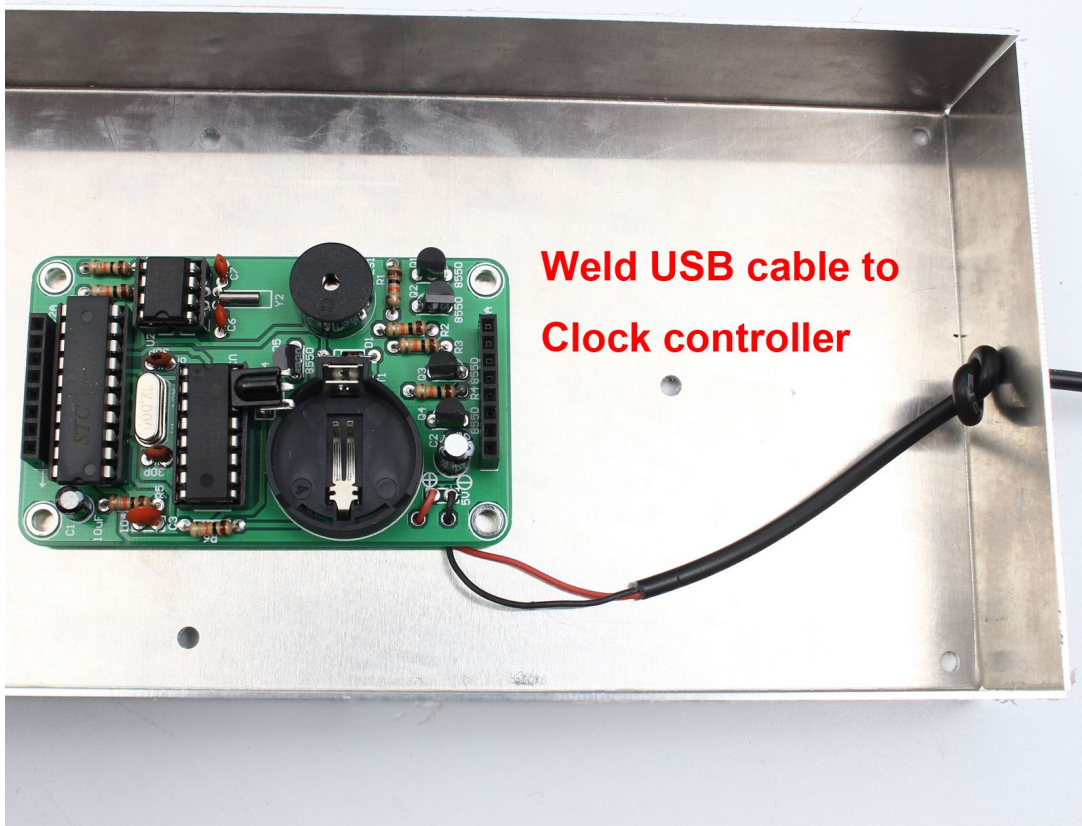
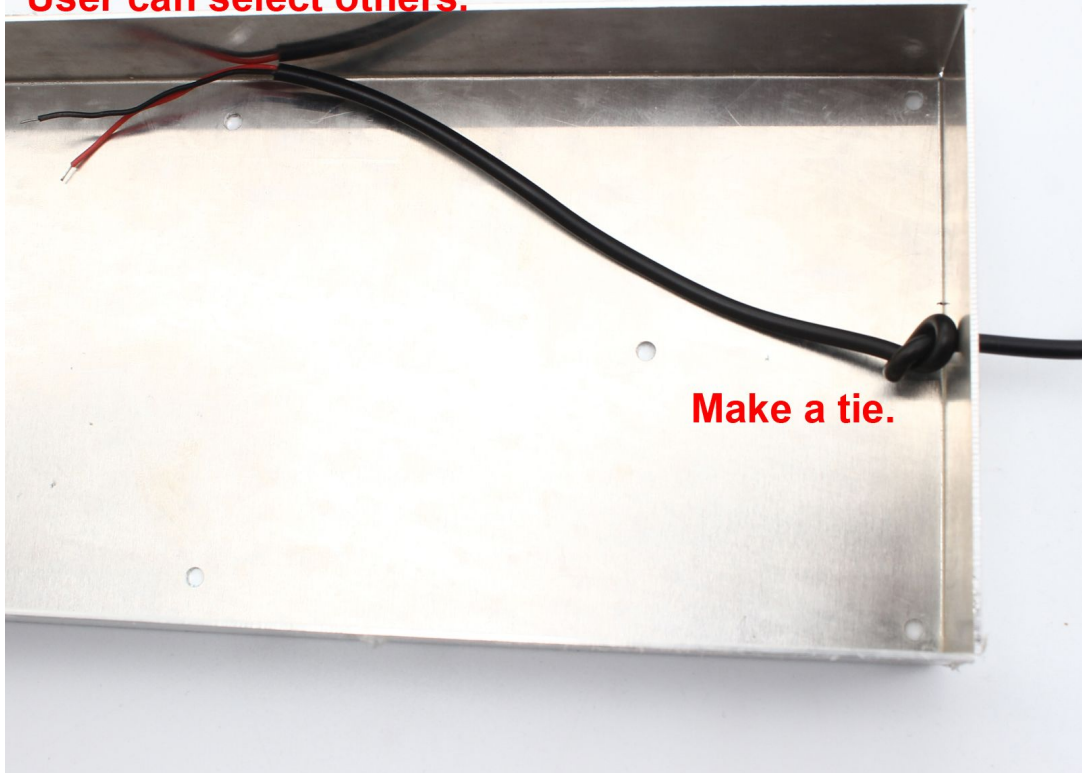
2pcs 1*8P Male pin

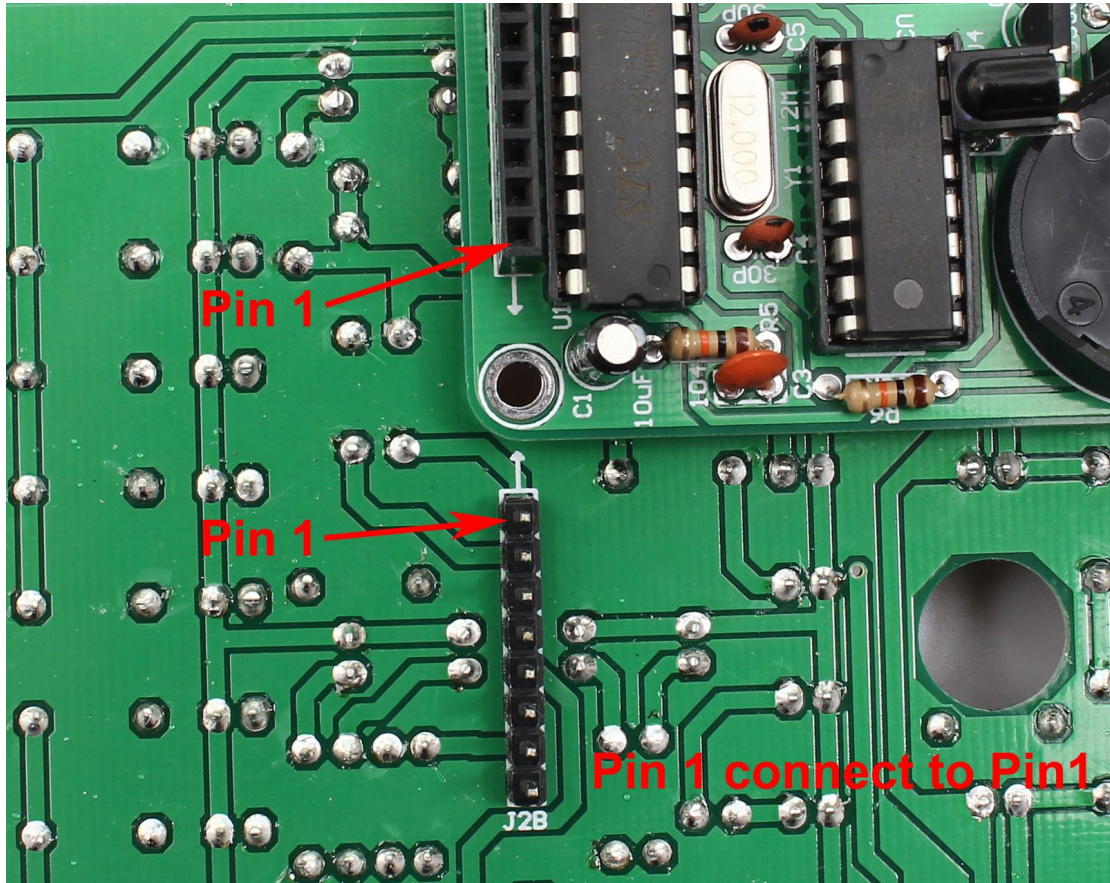




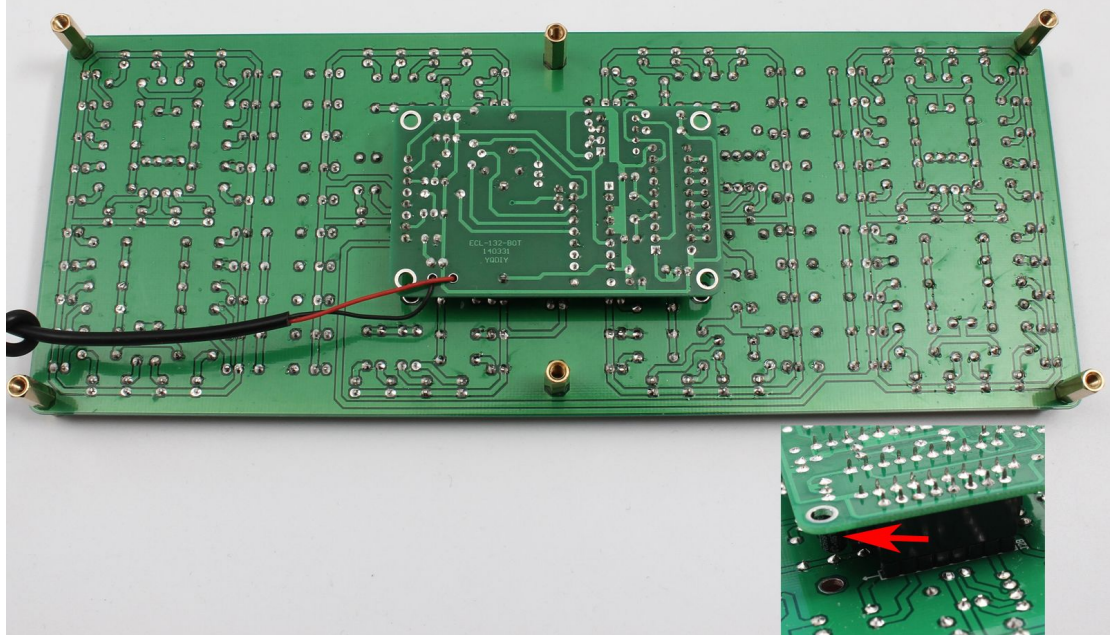
4>. Kit install steps:

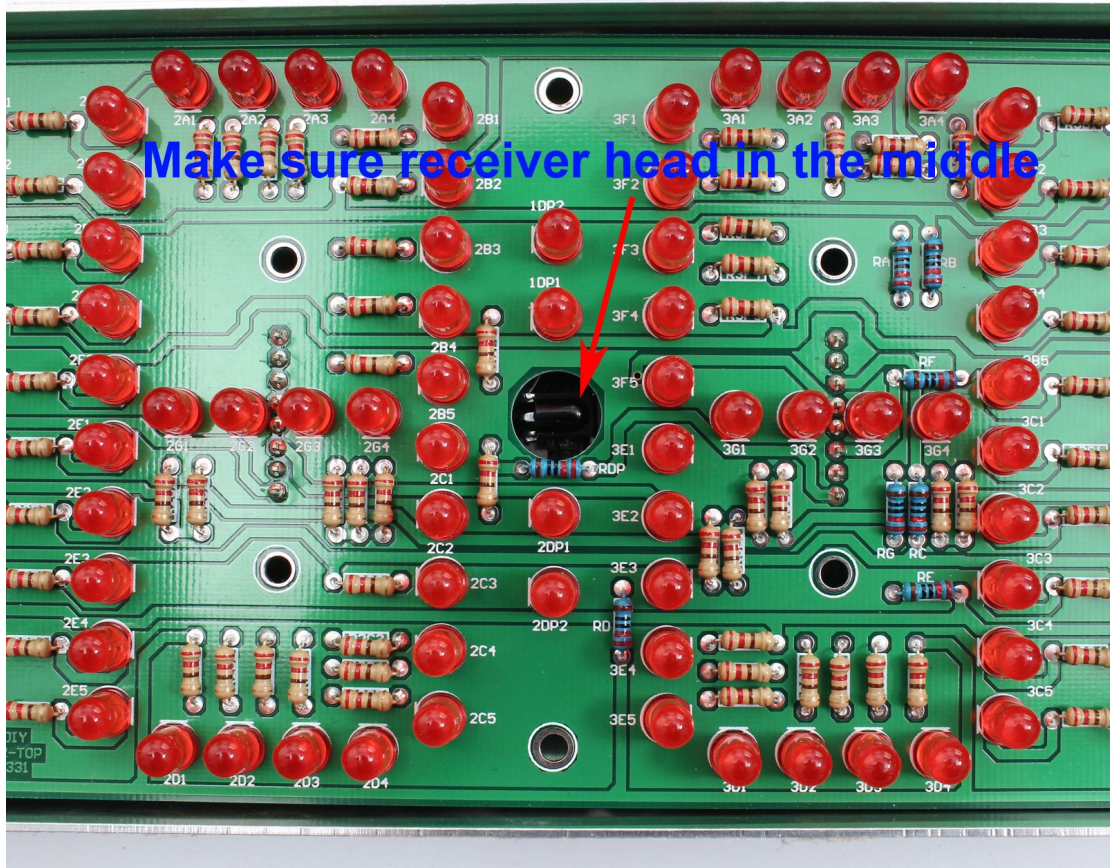
**There are four holes for USB cable.
User can select others.**





Connect 5V to test.
If display 00:00 on screen.Welding success





Reinstall the battery

