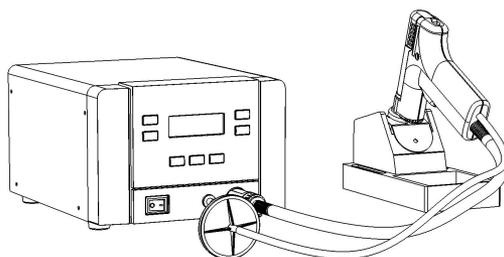




# QUICK 201X Desoldering Tool

## Instruction Manual



**Thank you for purchasing our products. Please keep the instruction manual properly for future reference.**

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# 1. Safety Instructions



## CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.



## WARNING

- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- Don't place the product in places where it may be exposed to rain or moisture.
- The product should be used away from places where there is magnetic interference.
- Don't use in flammable and explosive environments.
- After using, the nozzle temperature will be quite high, which is easy to burn and may cause dangerous accidents.
- Don't knock workbench with the desoldering tool to remove residual flux, which may seriously damage the desoldering tool.
- After the desoldering tool is used, a layer of melting tin should be plated to prolong its life before placing it into the holder.
- Please unplug the power cord when the product is not used for a long time.

## 2. Overview

This desoldering tool uses high-frequency eddy current heating, which makes the metal nozzle heat up quickly to melt the solder in the pad of the PCB through-hole devices. The vacuum pump is started by the desoldering tool switch to generate vacuum to suck the liquid solder into the solder storage tube to achieve the purpose of quickly desoldering the through-hole components and improving maintenance efficiency.

## 3. Product Characteristics

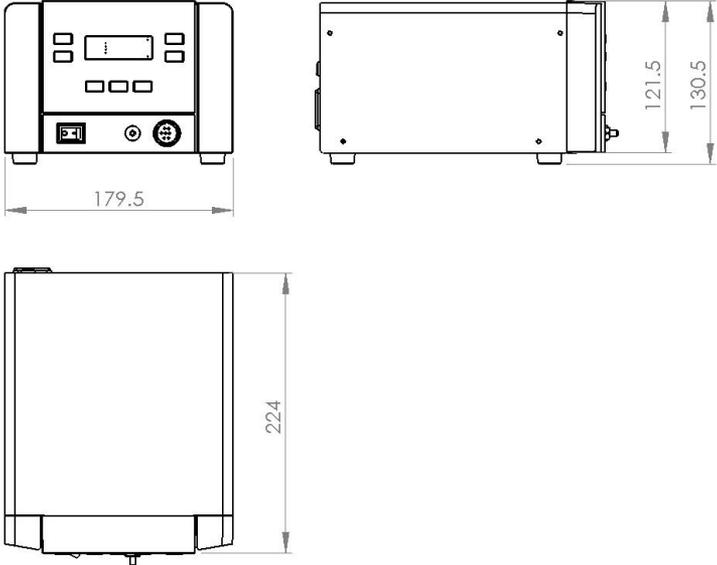
- ESD design prevents damages caused by static electricity and electric leakage.
- Built-in powerful vacuum pump, no need for external vacuum system, easy to install and operate.
- High-frequency eddy current heating, closed-loop control, LCD display, digital temperature calibration, accurate temperature, no thermal damage to sensitive devices.
- The desoldering wire and air pipe are made of silica gel material, which is resistant to high temperature and abrasion.
- Multiple air filtration devices are added to prevent the sealing of the vacuum pump from being damaged by flux and solder dross.
- Equipped with nozzle cleaning tools, which are convenient and fast for maintenance.

## 4. Product Specifications

Product model	201X
Power consumption	120W
Voltage	AC 110V/220V
Temperature range	300°C~480°C
Nozzle to ground resistance	$<2\Omega$
Nozzle to ground potential	$<2\text{mV}$
Dimensions (L*W*H)	179.5*224*130.5mm
Weight	About 4.4kg

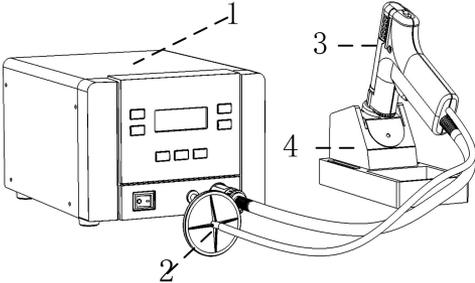
# 5. Functional Descriptions

## 5. 1. Dimensions



Unit: mm

## 5. 2. Part Descriptions

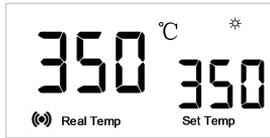


NO.	Part Descriptions
1	Main Unit
2	External Filter
3	Desoldering Gun
4	Desoldering Gun Holder

### 5. 3. Key Descriptions

Key	Function Descriptions
CH1 CH2 CH3	1.CH1 to CH3 Keys are respectively channel 1 to channel 3. 2.Press CH1 and CH2 keys at the same time to set the key tone. 3.Press CH1 and CH3 keys at the same time to enter the temperature calibration function.
+/-	Temperature adjusting keys
▲	Confirm key
▼	Return key

## 5. 4. Function Descriptions of the Main Interface



Symbols	Descriptions
	Heating state
	Display: indicating the key tone and alarm tone are on.  No display: indicating the key tone and alarm tone are off.
°C/°F	Temperature unit
Real Temp	Real-time temperature
Set Temp	Set temperature

## 6. Installation and Connection

### 6. 1. Installation of Desoldering Holder and Sponge

- 1) Take out the desoldering gun and place it in the holder.
- 2) Place the sponge in the hole of the desoldering holder.

### 6. 2. Connection

Connecting the desoldering tool assembly: connect the external filter with the hose of the desoldering tool (as shown in the figure below).

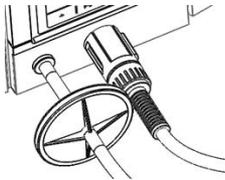
- 1) Insert the power cord into the power socket.
- 2) Connect the external filter with hose of the desoldering tool.

Turn on the unit, the desoldering tool starts heating.

(Note: Do not start the desoldering switch if the temperature does not rise to the set temperature)

Note:

\*The external filter has its connection direction, and it shall be connected according to the label, otherwise it will affect the suction of the unit.



## 7. Temperature Settings

### 7. 1. Temperature Selecting and Switching

There are three channels that can be selected: CH1, CH2 and CH3.

### 7. 2. Temperature Setting and Saving

- 1) After selecting the channel, press or long press the "+" or "-" key to change the current temperature.
- 2) After the temperature is set, long press the channel key to save the temperature of the current channel.

## 8. Key Tone Settings

- 1) Press and hold the "CH1" and "CH2" keys at the same time for about 2 seconds, and the current screen displays "🔊", indicating that the key tone is on (There is a key tone when pressing the key).
- 2) When the screen does not display "🔊", it means that the key tone is turned off (no key tone when pressing the key).

Note: After the key tone is turned on, when the difference between the Real Temp and the Set Temp is  $\pm 20$  °C, there will be an alarm prompt; if the tone is not turned on, there will be no alarm prompt.

## 9. Sleeping and Wake Up

### 9. 1. Sleeping

- 1) After entering the sleeping state, the screen displays "---" and "sleep".
- 2) Place the desoldering gun on the holder, and if it is not woken up within the set time, it will enter sleeping state.

## 9. 2. Wake Up

Wake up: pick up the desoldering gun from the holder, and push the red button, and the unit resumes normal operation.

## 10. Password Settings

The initial password is "000". In this state, the key function is not locked. Press the "▲" key to the parameter setting interface. If you need to limit the temperature adjustment, you must change the password.

- 1) Turn off the unit, press the "+" key and turn on the unit at the same time.
- 2) Hold the "+" key until it displays  .
- 3) Input the correct password , Press the "▲" key to enter the parameter setting.

### Input password

- 1) The screen displays  , and the leftmost hundreds digit blinks, at this time the hundreds digit number is adjustable. (Input the initial password)
- 2) Input password: press the "+" or "-" key to select the number of hundreds, after selecting, press the "▲" key for confirmation. Then the ten digit starts to blink and can be set, the set method of ten digit and one digit numbers are the same as hundred digit numbers. After selecting the one digit, press the "▲" key to confirm.
- 3) If the password input in the first time is wrong: the unit directly enters the second time input of the password, the second password input method is the same as the first time. (There are two opportunities to input the password. If the first password is input incorrectly, you can enter the second password directly.)
- 4) If the passwords input twice are wrong: the screen displays "Err" and the unit will enter to the main menu directly.
- 5) If the passwords input twice are correct: operations such as temperature setting and parameter setting can be performed.

### New password setting

1) In the parameter setting interface, press the "+" or "-" key to select the parameter menu "-1-", and then press the "▲" key to enter the password setting interface.

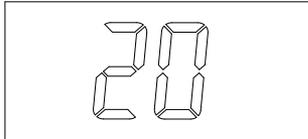
2) In the password setting interface, the screen displays  and the hundred digit blinks. Then press the "+" or "-" key to select the number of hundreds digit. After selection, press the "▲" key to confirm and enter the ten digit number selection. The selection method of ten digit and one digit numbers are the same as that of hundred digit numbers. After selecting the ones digit, press the "▲" key for confirmation to enter the second input of the password. The second password setting method is the same as the first time. After inputting the second password, press the "▲" key to confirm.

3) **If the passwords input twice are different:** the screen displays "Err", and back to the parameter menu "-1-", indicating that the new password setting is unsuccessful.

4) **If the passwords input twice are same:** the screen displays "", and then back to parameter setting, indicating that the password is set successfully.

## 11. Sleeping Time Settings

1) In the parameter setting interface, press the "+" or "-" key to select the parameter menu "-2-", and then press the "▲" key to enter the sleeping time setting interface. The default standby time is 20 minutes and the screen displays "20":



Sleeping time setting

2) In the sleeping time setting interface, press the "+" or "-" key to adjust sleeping time. The range is "00~20"(Unit: Minute)

01~20: It indicates that if the desoldering gun is placed on the holder, the desoldering tool will enter the sleeping state when it reaches the set sleeping time of 1 ~ 20 minutes

00: It indicates there is no sleep.

3) After the sleeping time is set, press the "▲" key to save and return to the parameter menu "-2-".

## 12. Standby Time Settings

1) In the parameter setting interface, press the "+" or "-" key to select the parameter menu "-3-", and then press the "▲" key to enter the standby time setting interface. The default standby time is 40 minutes and the screen displays "40"

2) In the standby time setting interface, press the "+" or "-" key to adjust standby time. The range is "00~40"(Unit: Minute)

01~40: It indicates standby time, the unit starts timing after entering sleeping state

The main interface displays OFF, indicating that the desoldering gun is in standby state.

After the standby time is set, press the "▲" key to save and press the "+" or "-" to select the parameter menu "-3-". Press the "▲" key to enter the heating state.

## 13. Temperature Calibration

The temperature should be recalibrated every time when the heating element or nozzle is replaced.

- 1) Set the calibration temperature to 300°C. When the temperature is stable, please measure the nozzle temperature with temperature tester and record the reading value.
- 2) Press the "CH1" and "CH3" keys at the same time until the screen displays temperature value, it indicates the unit has entered into temperature calibration mode.
- 3) Press "+" or "-" keys to select the value, and input the reading value, press “▲” for confirmation after inputting, then the calibration is completed.
- 4) If the calibration is succeed, the screen will display  , then return to the working interface. If the temperature still has errors, repeat the calibration according to the above steps.

Note: \* It is recommended to use 191/192 to measure the nozzle temperature.

- \* If the password is locked, the temperature cannot be calibrated, and the correct password must be input before operation.

## 14. Operation

**Melting solder** After the set temperature is stable, use the nozzle of the desoldering tool to melt the solder.

**Solder removal** After confirming that all the soldering solder has been melted, press the red switch (trigger) on the handle to suck the soldering solder.

**Note:** 1) To check if the solder is completely melted, observe the inside of the aperture and the back of PCB, if it is difficult, use the nozzle to shake the pin slightly. If it can be moved, it means that the solder has been melted.

- 2) Do not shake the pins vigorously. If the pin does not move easily, it indicates the solder has not been completely melted
- 3) Do not leave any solder residue in the PCB aperture.

## 15. Cleaning and Maintenance of the Nozzle

### 15. 1. Maintenance of the Nozzle

After using the desoldering tool, please make maintenance to ensure durability. Solder removal efficiency depends on temperature, quality and quantity of solder and flux. Please follow the following procedures for maintenance according to the usage of the desoldering tool:

- 1) Apply a little solder to the plating part of the nozzle to keep the nozzle shiny.
- 2) If the nozzle is covered with oxide, the thermal conductivity will be weakened. Apply a little new solder on the nozzle to exert the thermal conductivity function.
- 3) Remove the solder inside the nozzle and the heating element, then clean the nozzle with the cleaner, and plate a layer of solder on the nozzle to protect the coating.

**Note:** After the desoldering tool is used, the temperature will be high. During maintenance, please wait it to cool down or wear heat insulation gloves for safe operation.

### 15. 2. Checking and Cleaning of the Nozzle

- 1) Insert the plug into the power socket, and turn on the power switch to heat the nozzle.
- 2) Clean the nozzle hole with a nozzle needle.

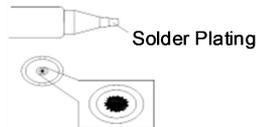


3) If there is slight wear and tear, please re-solder the nozzle with new solder to avoid oxidation.

4) If the nozzle hole is worn or corroded inside and outside, please replace the nozzle.

**Note:** a. Since it is difficult to observe the erosion of the nozzle with naked eyes, if the solder suction efficiency is reduced while the performance of other parts is good, it may be that the nozzle is eroded and should be replaced with a new one.

b. Please select the appropriate size of the needle according to the diameter of the nozzle. If the solder in the nozzle is not completely melted, the needle cannot penetrate the nozzle, please check the solder coating on the nozzle surface.



After erosion, the nozzle hole will be enlarged or chipped.

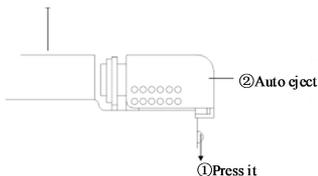
c. A layer of special alloy is plated inside and outside the nozzle aperture. If the alloy layer is eroded due to high temperature, the nozzle will not be able to maintain a proper temperature.

### 15. 3. Replacing the Filter Pipe

1) Press "OFF" on the power switch.

2) When the filter pipe is cooled, press the release button on the back of desoldering tool, and take out the filter pipe.

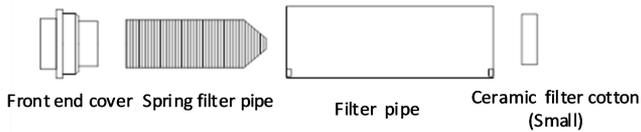
③ Replace the filter pipe



3) Check the spring filter pipe and ceramic filter cotton.

Note: The spring filter pipe needs to be replaced when two thirds of the solder is collected and stored.

The ceramic filter cotton needs to be replaced when it is hardened due to the accumulation of solder and flux.



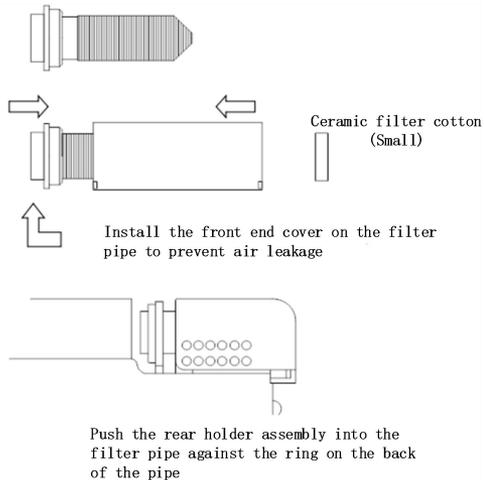
## 15. 4. Installing the Filter Pipe

1) Install the spring filter pipe on the front end cover.

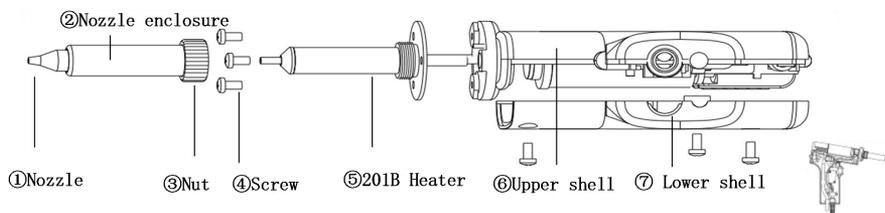
2) Install front end cover on the filter pipe.

3) Put the ceramic filter cotton(small) into filter pipe.

Note: If a large filter cotton is loaded into the filter pipe, it may damage the desoldering tool or reduce the suction efficiency.



## 16. Replacing the Heater



### 16. 1. Steps of Removing the Heater(Under power-off cooling state)

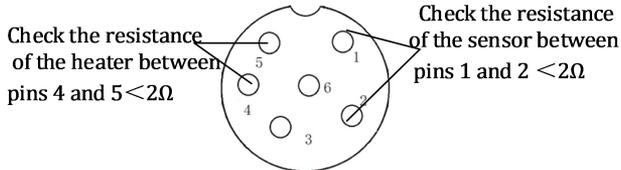
- 1) Unscrew ② Nozzle enclosure and ③ Nut, and pull out ① Nozzle.
- 2) Unscrew three ④ Screws at the tail of the heater.
- 3) Pull off the release button and remove the filter pipe and gasket after the tail seat of the handle pops open.
- 4) Unscrew three screws on ⑥ Upper shell.
- 5) Pull out the four wires of the ⑤ 201B Heater at the connector of the handle, and remove the ⑤ 201B Heater.

### 16. 2. Steps of Replacing the Heater

- 1) Fix ⑤ 201B Heater on the ⑦ Lower shell with three ④ Screws.
- 2) Insert the four wires of the heater into the handle wire according to the disassembly color.
- 3) Tidy up the wires, toggle the switch to put the wire into the slot, cover ⑥ Upper shell, then lock the three screws of the upper shell.
- 4) Place the gasket and the filter pipe in the original position and push the tail seat up.

5) Sleeve ①Nozzle on ⑤201B Heater, then sleeve ②Nozzle enclosure and ③Nut and lock it tightly.

6) After the heater is replaced, please do the following measurements:

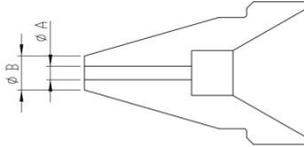


7) After replacing the heater, it is recommended to recalibrate the temperature (refer to the temperature calibration steps).

## 17. Troubleshooting

NO.	Error display	Error description
1	S-E	Sensor error The sensor is not inserted or disconnected
2	H-E	Heater error The heater is open circuit or the power supply circuit is not inserted.

## 18. Selection of Desoldering Nozzles



P/N	$\Phi A(\text{mm})$	$\Phi B(\text{mm})$
A1001	0.3	0.7
A1002	1.2	1.8
A1003	1.0	2.0
A1004	0.8	2.3
A1005	1.0	2.5
A1006	1.3	3.0
A1007	1.6	3.0

## Warranty Card

●The warranty period of this product is calculated from the date of Purchase. During the warranty period, if the product breaks down during normal use, show the original warranty card and enjoy free service in the authorized repair company(or our company). Please keep the purchase certificate and this warranty card and show it before maintenance.

●During the warranty period, the following repairs need to be paid:

- a.Unable to offer valid warranty card or certificate;
- b.The purchase date, sales company and other items are not completely filled or the warranty card is altered;
- c.Damage caused by failure to follow the use methods and precautions in the manual;
- d.Damage caused by disassembly, repair and modification of products without authorization of the manufacturer;
- e.Replacement of vulnerable and consumable parts.

●All items of the warranty card shall be completely filled in by the agent or user to obtain a 12-month warranty period.

●Please keep this warranty card properly It will not be re-offered after.

## Warranty Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

## Warranty File Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Address : \_\_\_\_\_

Postcode: \_\_\_\_\_

Telephone: \_\_\_\_\_

Contact Person: \_\_\_\_\_

QUICK INTELLIGENT EQUIPMENT CO., LTD.

ADD: NO.11, FengXiang Road, Wujin  
High-Tech Industrial Development Zone,  
Jiangsu, China

TEL: 86-519-86225678

FAX: 86-519-86558599

POSTCODE: 213167

WEBSITE: [www.quick-global.com](http://www.quick-global.com)

