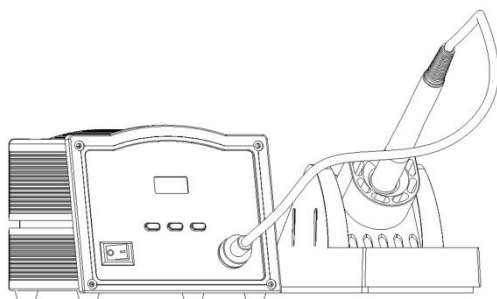




QUICK 203/203H Soldering Station

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

- The product should be used away from places where there is magnetic interference.
- 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 install the product in places where it may be exposed to rain or moisture.
- Don't use in flammable and explosive environments.
- After using the soldering station, the tip temperature will be quite high, which is easy to burn operators and may cause dangerous accidents.
- Power supply should be turned off during breaks or after work.
- Don't knock workbench with the soldering pencil to remove residual flux, which may seriously damage the soldering pencil.
- When the soldering pencil is not in use, please turn off the power to prolong its life.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

The soldering station adopts high-frequency current heating, soldering tip heats up rapidly, temperature controlled by sensor, accurate and sensitive; split design heating element and soldering tip, low cost of use; LED display, clear and intuitive; the intelligent power design covers a wide range, and it is widely used in the soldering operation applications of the electronic manufacturing industry.

3.Product Characteristics

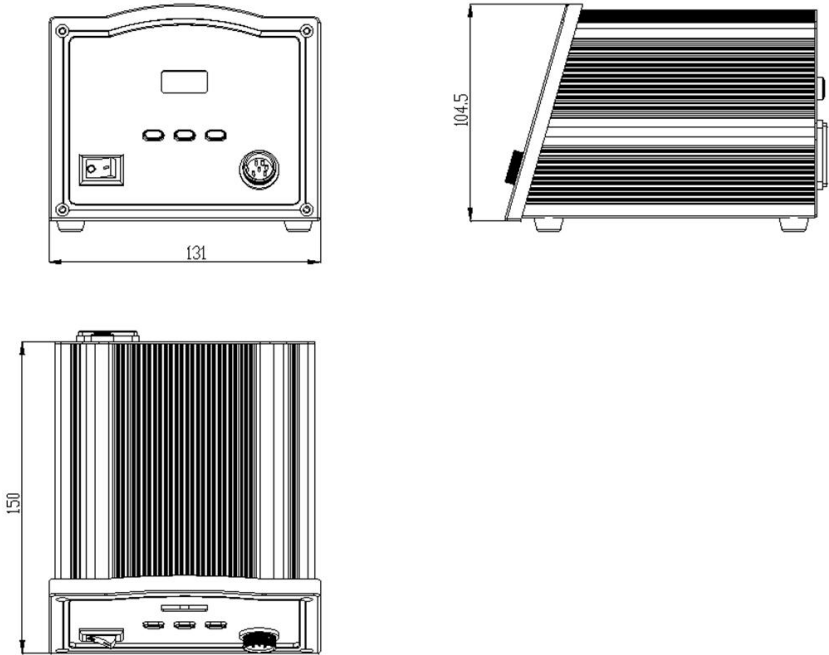
- High-frequency current heating, sensor close to tip.
- Microcomputer control, rapid heating and thermal recovery, suitable for lead free soldering.
- Built-in intelligent temperature compensation system, the temperature is accurate and stable.
- Digital temperature calibration, more convenient to maintenance
- Split design heating element, sensor and soldering tip, low consumable cost.

4.Product Specifications

Model	203	203H
Display	LED	
Power consumption	60W	90W
Voltage	AC 110V/220V	
Temperature range	50~600°C	
Temperature stability	±2°C (no load)	
Ambient temperature(Max)	40°C	
Tip to ground resistance	<2mV	
Tip to ground potential	<2Ω	
Dimensions (W*H*D)	160*130*100mm	
Weight	About 3.2kg	

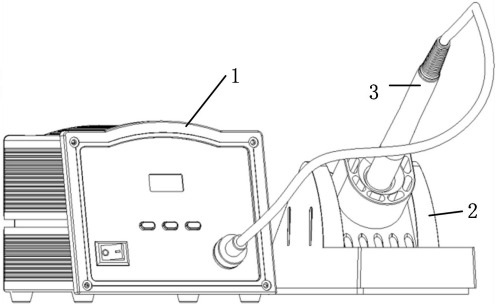
5.Functional Descriptions

5. 1. Dimensions



Unit: mm

5. 2. Part Descriptions



NO.	Part Descriptions
1	Main unit
2	Holder
3	Soldering pencil

5. 3. Key Descriptions

No.	Symbols	Function Descriptions
1	▲	Temperature increase In the working mode, press to increase by 1°C, long press to increase rapidly.
2	▼	Temperature decrease In the working mode, press to decrease by 1°C, long press to decrease rapidly.
3	*/▲/▼	In the working mode, press the three keys at the same time to enter the temperature calibration mode.

6. Use of Holder and Sponge

- 1) Wet the cleaning sponge and then squeeze it dry.
- 2) Place the sponge into the groove of the holder base.
- 3) In the process of use, if the sponge becomes dry, please add water appropriately.

7.Connection

- 1) Insert the six-core plug of the soldering pencil into the six-core socket on the main unit (pay attention to the insertion position of the plug) and tighten it, then place the soldering pencil in the holder.
- 2) Insert the power plug of the soldering station into the power socket.
- 3) Insert one side of the grounding wire into the grounding jack of the soldering station and connect the other side to the anti-static ground.

8.Temperature Settings

Note:

- 1) When setting the soldering station temperature, please make sure the soldering station temperature is at adjustable mode.
- 2) Input the correct password, or the initial password "000".

Temperature increase: press "▲" key to increase by 1°C, screen displays setting temperature; long press to increase rapidly.

Temperature decrease: press "▼" key to decrease by 1°C, screen displays setting temperature; long press to decrease rapidly.

9. Sleeping and Wake Up

9. 1. Sleeping

- 1) If the sleeping mode and working mode have been set, the soldering tip is not used for 20mins and the screen displays "---" indicating the station enters the sleeping state.
- 2) When the station enters the sleeping mode, the temperature of the soldering tip will drop to 200°C (if the set working temperature is greater than or equal to 200°C) or 50°C (if the working temperature is lower than 200°C), and the temperature will be maintained until the station resumes working.


9. 2. Wake Up

- 1) Turn off the power switch of the soldering station, then turn on the power switch.
- 2) Press any key (except the POWER key).
- 3) Pick up the handle from the holder and the soldering station returns to working mode.

10. Password Settings

The initial password is "000", and in this mode, you can set the temperature. If you need to limit the temperature adjustment, you must change the password.

Enter the password setting mode

- 1) Turn off the power switch. Long press the "▲" and "▼" keys at the same time, then turn on the power switch.
- 2) Long press the "▲" and "▼" keys until the screen displays:  .
- 3) Input the correct password to enter the password setting.



Input the initial password

- 1) The screen displays "- - -" and the hundreds digit flashes, at this time the digit can be set (input the initial password).
- 2) Input the initial password: press the "▲" or "▼" key to change the hundreds digit number, after selection press the "*" key to confirm; then the tens digit starts to flash, it can be set. The setting method of the tens digit and one digit are the same as the hundreds digit. When the one digit setting is completed, press the "*" key to confirm.
- 3) **If the password input is wrong:** the screen displays the current input password for two seconds, the station enters the working state, indicating the input password is wrong, and the temperature setting cannot be operated.
- 4) **If the password input is right:** the screen displays , indicating the input password is correct. After displaying about 4 seconds, the station enters the working state, the temperature setting can be operated.

New password setting


- 1) When the screen displays , press the "*" key, the screen displays "- - -", indicating the station enters the new password input mode, press the "▲" or "▼" key to change the value.
- 2) When the three digits are selected, press the "*" key, the screen will display "- - -", input the new password again, and repeat the same steps.
- 3) **If the password input twice are same:** after pressing the "*" key, the new password setting is successful, the new password takes effect.
- 4) **If the password input twice are different:** after pressing the "*" key, the screen displays "- - -", new password must be input again until the password input twice are same, then the new password setting is successful.

11. Working Modes Settings

1) When the screen displays , press "▲" and "▼" at the same time and it will display , indicating that the soldering station has entered in working modes settings state. Press "▲" or "▼" to change the value.

2) After selecting working modes, press "*" to save. The meaning of the displayed numbers is shown in the following "Working Modes Sheet".

Note: "X" represents the original working mode number.

 Warning: High-temperature operation will cause serious oxidation and damage to the heater and tip, shortening the service life. Please choose carefully and use low-temperature operation as much as possible.

Working Modes Sheet

Working Modes	Applicable Handle Type	Adjustable Temperature Range	Applicable for High-frequency	Notes
0	Electromagnetic Soldering Tip	200°C-420°C	60W Soldering Station	With Auto-Sleeping and Auto-Shutdown
1	Electromagnetic Soldering Tip	200°C-420°C	90W Soldering Station	With Auto-Sleeping and Auto-Shutdown
2	Electromagnetic Soldering Tip	200°C-420°C	60, 90W Soldering Station	With Auto-Sleeping and Auto-Shutdown

3	Electromagnetic Soldering Tip	50°C-600°C	90W Soldering Station	With Auto-Sleeping and Auto-Shutdown
4	Electromagnetic Soldering Tip	50°C-420°C	60W Soldering Station	With Auto-Sleeping and Auto-Shutdown
5	Electromagnetic Soldering Tip	50°C-420°C	90W Soldering Station	With Auto-Sleeping and Auto-Shutdown
6	Electromagnetic Soldering Tip	200°C-480°C	60W Soldering Station	With Auto-Sleeping and Auto-Shutdown
7	Electromagnetic Soldering Tip	200°C-480°C	90W Soldering Station	With Auto-Sleeping and Auto-Shutdown
0.	Electromagnetic Soldering Tip	200°C-420°C	60W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
1.	Electromagnetic Soldering Tip	200°C-420°C	90W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
2.	Electromagnetic Soldering Tip	200°C-420°C	60, 90W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
3.	Electromagnetic Soldering Tip	50°C-600°C	90W Soldering Station	Without Auto-Sleeping and Auto-Shutdown

4.	Electromagnetic Soldering Tip	50°C-420°C	60W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
5.	Electromagnetic Soldering Tip	50°C-420°C	90W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
6.	Electromagnetic Soldering Tip	200°C-480°C	60W Soldering Station	Without Auto-Sleeping and Auto-Shutdown
7.	Electromagnetic Soldering Tip	200°C-480°C	90W Soldering Station	Without Auto-Sleeping and Auto-Shutdown

12. Temperature Calibration

The temperature should be recalibrated every time if the soldering tip is replaced.

- 1) Set the temperature 300°C. When the temperature is stable, use the thermometer to measure the tip temperature and write down the readings.
- 2) Press the "*" key, at the same time press "▲" or "▼" keys to enter the temperature calibration mode.
- 3) Press the "▲" or "▼" key to select the value, input the reading value of the thermometer, after completed inputting, press the "*" key to save, the tip temperature calibration is completed.
- 4) If the input calibration temperature value is incorrect, the calibration protection function will take effect: after inputting the calibration temperature and pressing the "*" key, the display temperature of the

soldering station will return to the hundreds digit and flash. In this case, please input the value again.

5) Repeat the above steps if there's any difference between the thermometer and soldering station.

Note: * It is recommended to use QUICK 191/192 to measure tip temperature.

* If the password is locked, the temperature cannot be calibrated.

The correct password must be input before operation.

13.Maintenance of Tips

1) When the new tip is used for the first time, add tin to protect it when the temperature is 250 ~ 280 °C.

2) Select the appropriate tip size according to the size of soldering joint.

3) In order to prevent the oxidation of tip a layer of soldering tin should be plated before placing it into the holder.

4) In order to avoid rapid cooling of tip, the cleaning sponge should not be wet with too much water. But using cleaning sponge that is not wet will damage the tip and lead to failure of tinning the tip.

5) When the tip is oxidized due to improper use, do not clean the surface coating by grinding but use metal filament or resurrection ointment to clean it at 250 ~ 280 °C.

6) When soldering, do not apply gravity to tip and avoid adding tin to the same place to operate.

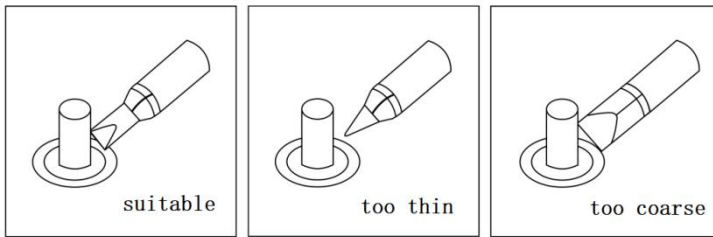
7) Try to solder at low temperature, and the temperature is usually controlled at 320 ~ 380°C. If it is necessary to solder at high temperature, please analyze the adaptability of soldering station and tip before soldering.

14.Selection of Tips

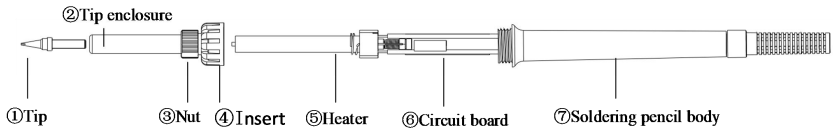
1) It is very important to correctly select the size and shape of tip. A suitable tip can improve the efficiency and increase the durability.

2) The size of tip is directly related to the heat capacity. For continuous soldering, the larger the tip, the less the temperature drop. In addition, because the heat capacity of the large tip is higher and relatively low temperature can be used during soldering, the tip is not easy to oxidize and the service life is relatively prolonged.

3) Generally speaking, the selection of tip size is based on the standard that it does not affect adjacent components. Selecting the geometric dimension that can fully contact with the soldering joint can improve the soldering efficiency.



15. Guide for Replacing Heater



15. 1. Steps for Removing Heater

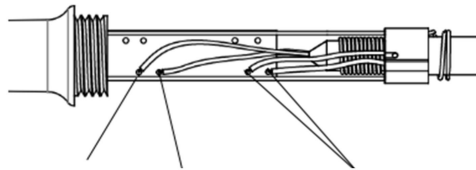
- 1) Unscrew the ② Tip enclosure and ③ Nut
- 2) Take out ① Tip
- 3) Unscrew ④ Insert
- 4) Pull out ⑤ Heater and ⑥ Circuit board

5) Disassemble the soldering part of the ⑤Heater with soldering iron and remove it

⚠ Note: All operating steps are performed with the power disconnected and the handle cooled.

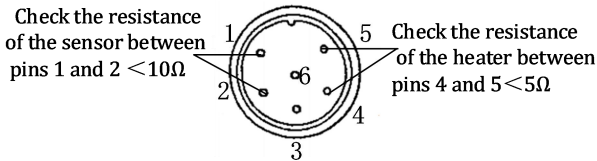
15. 2. Steps for Replacing Heater

- 1) Solder ⑤Heater to the ⑥Circuit board, and pay attention to the positive and negative poles of the sensor
- 2) Install ⑤Heater into ⑦Soldering pencil body
- 3) Rotate the ④Insert to the ⑦Soldering pencil body
- 4) Install ①Tip into ⑤Heater
- 5) Put ②Tip enclosure and ③Nut on ④Insert and tighten



Positive pole (Red line) Negative pole (Black line) Heater wire

6) After replacing the heater, the following measurements are recommended:



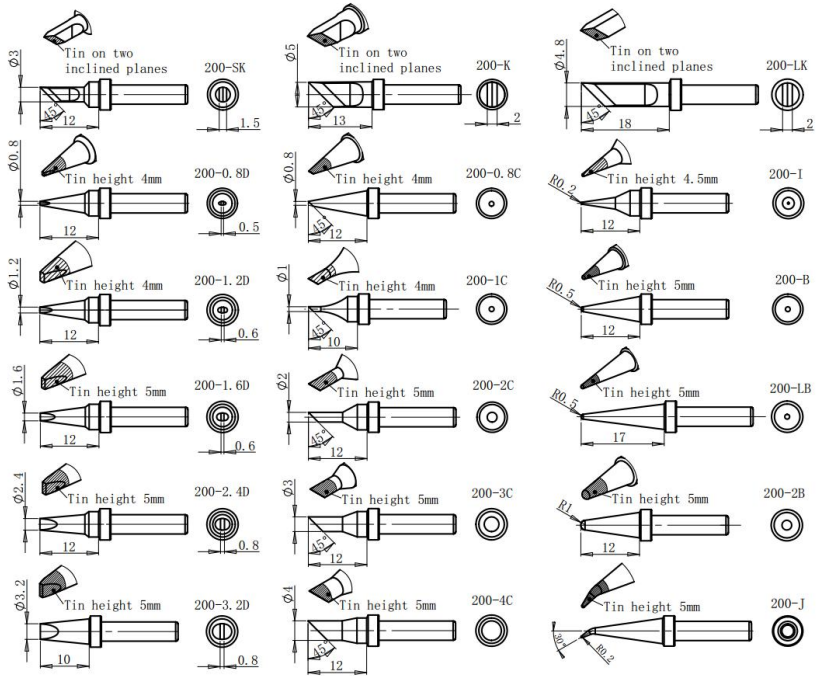
7) After replacing the heater, it is recommended to recalibrate the temperature (refer to the temperature calibration steps).

⚠ Note: Do not burn the wiring when you replace the heater, and do not solder the wiring for too long time.

16.Troubleshooting

NO.	Error Display	Troubleshooting
1	S-E	<p>The sensor is error</p> <p>If the sensor or any part of the sensor circuit fails, the screen displays "S-E", indicating the sensor may be damaged.</p>
2	H-E	<p>The heater is error</p> <p>If the soldering station cannot deliver power to the soldering heater, the screen displays "H-E", indicating that the heater is damaged.</p>

17.List of Tips



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.

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Zone, Jiangsu, China
TEL: 86-519-86225678
FAX: 86-519-86558599
POSTCODE: 213167
WEBSITE: www.quick-global.com

Warranty Card

Type: _____

Model No.: _____

Serial No.: _____

Delivery Date: _____

Warranty File Card

Type: _____

Model No.: _____

Serial No.: _____

Delivery Date: _____

Address : _____

Postcode: _____

Telephone: _____

Contact Person: _____

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