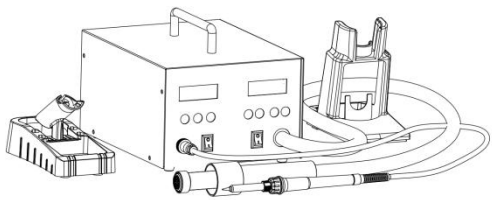
QUICK 712 REWORK SYSTEM

Instruction Manual



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

Contents

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.
- Don't use in flammable and explosive environments.
- Pay attention to the air outlet and its surroundings. High temperature operation, be careful of burns.
- Power supply should be turned off during breaks or after work to avoid safety accidents.
- Please keep the air outlet unblocked and ensure there is no obstruction.
- Check and maintain the product regularly. Do not use the product when it is damaged, especially when the power cord or hot air desoldering handle is damaged.
- The hot air desoldering handle must be correctly placed on the holder, and do not place it on the work surface. After completion, the machine will stop working when it automatically cools down to below 100℃.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

The rework system integrates lead-free soldering and hot air desoldering, and is suitable for soldering and desoldering. The two tools are controlled by respective power switches, do not interfere with each other, and can work independently or cooperate with each other at the same time.

3.Product Characteristics

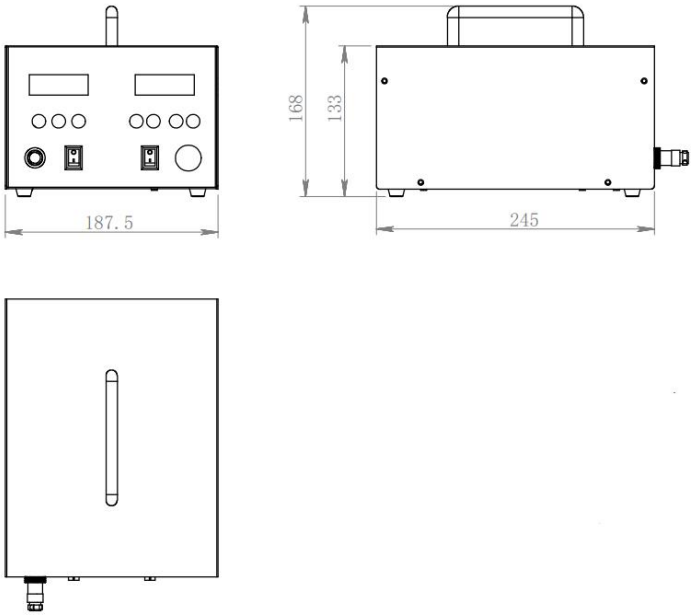
- Password lock function facilitates the temperature parameters control.
- Temperature adjustment by buttons, auto sleeping/shutdown function available.
- Digital temperature calibration, easy operation.
- Brushless vortex fan, stepless and wide range of air volume, suitable for various applications.
- Auto cooling system can prolong the lifetime of heating element and protect the hot air handle.
- Precise temperature controlled by closed-loop sensor.
- Light soldering handle, easy to use.

4.Product Specifications

Model	712	
Voltage	AC 110V/220V/230V/240V	
Soldering section	Power	90W
	Tip to ground potential	＜2mV
	Tip to ground resistance	＜2Ω
	Temperature range	50～500℃
	Temperature stability	±2℃（Still air, no load）
Hot air desoldering section	Power	1000W
	Hot air temperature range	100～500℃
	Air volume range	1～120 级
Ambient temperature(Max)	40℃	
Dimensions(L*W*H)	187.5*245*168mm	
Weight	About 4.8kg	

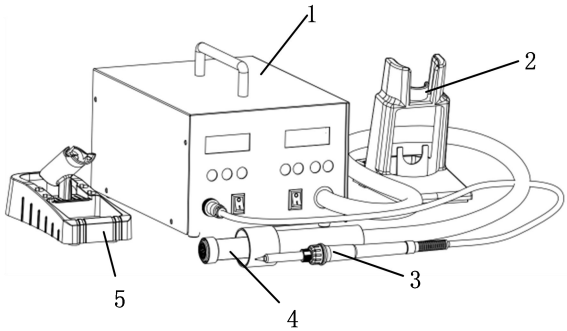
5.Functional Descriptions

5.1.Dimensions



Unit：mm

5.2.Part Descriptions



No.	**Part Name**
1	Main unit
2	Hot air desoldering holder
3	Soldering handle
4	Hot air desoldering handle
5	Soldering handle holder

5.3.Key Descriptions

Soldering Section

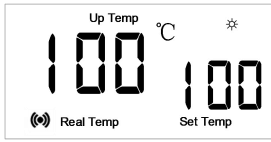
Key	Function Descriptions
▲	Temperature rise. In the working state, press the key temperature rises by 1 ℃; Long press the key, the temperature rises quickly.
▼	Temperature decrease. In the working state, press the key temperature decreases by 1 ℃; Long press the key, the temperature decreases quickly.
▲/▼	In the working state, press the two keys at the same time for two seconds to turn on/off the key tone function.
∗/▲/▼	In the working state, press and hold " *" key, then press "▲" and "▼" keys at the same time to enter temperature calibration.

Hot air Desoldering Section

Key	Function Descriptions
TEMP▲or▼	In the working state, press the TEMP▲ or TEMP▼ key respectively, the hot air temperature increase or decrease. Long press at the same time to switch key tone on or off. In the calibration interface, press TEMP▲ or TEMP ▼ to select the value.
AIR▲or▼	In the working state, press the AIR▲ or AIR▼ key respectively, the air volume increase or decrease. Turn off the power, long press the AIR ▲ or AIR ▼ key, and then turn on the power to enter the password setting interface. In the calibration interface, press AIR▲ or AIR▼ to confirm.
TEMP▲and AIR▲	Long press the two keys at the same time to enter temperature calibration.

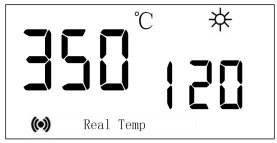
5.4.Function Descriptions of the Main Interface

Soldering Section



Symbols	Function Descriptions
☼	Heating state
(•)	Display: indicates that the key tone and alarm function are on. No display: indicates that the key tone and alarm function are off.
Real Temp	Real-time temperature
Set Temp	Setting temperature
Up Temp	Upper limit of alarm temperature
Down Temp	Lower limit of alarm temperature

Hot air Desoldering Section



Symbols	Function Descriptions
☼	Heating state
(•)	Display: indicates that the key tone and alarm function are on. No display: indicates that the key tone and alarm function are off.
Real Temp	Real-time temperature

6.Connection

6.1.Connection of Soldering Section

1) Insert the connecting plug of the soldering handle into the six-core socket on the front of the main unit and tighten it. Note that the protrusion inside the plug is aligned with the groove of the socket.

2) Place the soldering handle in the holder.

6.2. Connection of Hot Air Desoldering Section

1) Select the appropriate nozzle and install it (try to use large diameter nozzle), and then put the hot air desoldering handle in the holder.

2) Connect the power cord and turn on the power switch.

3）Remove the handle from the holder, and the system enters the working state.

7.Menu Settings of Soldering

7.1.Password Settings

The initial password is "000", and in this mode, after turn on the power, you can set the parameters. If you need to limit the 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 4s, the station enters the working state, the temperature setting can be operated. If press the "*" and "▼" keys, within 4s after  displayed, the station enters the new password setting.

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 displays "- - -" , 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.

7.2.Temperature Settings

⚠ Note:

1) When setting the soldering temperature, please make sure the soldering temperature is at adjustable mode.

2) Input the correct password, or the initial password "000".

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

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

7.3.Working Mode Settings

When the correct password is input and the screen displays  , press the "▲" and "*" keys of the soldering section at the same time to enter the working mode setting, and the screen displays the current setting mode. Press the "▲" and "▼" keys to change the working mode.

Working Modes Sheet

Working Modes	Adjustable Temperature Range	Applicable Handle Type	Alarm	Notes
0	200～450℃	Common soldering tips	Yes	In the working state, indicates alarm function
1		Extra large soldering tips		
2	50～500℃	Common soldering tips		
3		Extra large soldering tips		
0	200～450℃	Common soldering tips	No	
1		Extra large soldering tips		

2	50～500℃	Common soldering tips		
3		Extra large soldering tips		

7.4.Sleeping and Wake Up

Sleeping

1）After selecting the corresponding mode as required, press the "*" key to enter the Sleeping Time setting, and change the sleeping time through the "▲" or "▼" keys. The sleeping time setting range is 0 ~ 250 (unit: minute).

2）The soldering handle must be placed on the holder. If it is not used within the set time, the soldering station will automatically enter the sleeping state.

3）After entering the sleeping state, the soldering station will stop working if it is not woken up within the set shutdown time. Turn off the power switch for about 2 seconds, and turn on again, it will resume to work.

Wake Up

1) Turn off the power switch of the soldering station, then turn on the power switch.
2) Pick up the handle from the holder and the soldering station returns to working mode.

7.5.Shutdown Settings

1) After setting the required sleeping time, press the "*" key to enter the shutdown time setting.

2) After entering the shutdown time setting interface, press the "▲" and "▼" keys to change the shutdown time. The shutdown time should be greater than the sleeping time. Shutdown time range: 0 ~ 250 minutes.

7.6. Sleeping Temperature Settings

Press "▲" and "▼" to change the temperature setting value. Setting range of sleeping temperature: 50 ~ 250 ℃.

7.7.Temperature Alarm Upper&Lower Limit Settings

Press the "▲" and "▼" keys to change the set temperature. Once the value difference between the set temperature (Set Temp) and the real temperature (Real Temp) exceeds the alarm lower limit temperature (Down Temp), the soldering station will prompt an alarm in the alarm mode. Alarm upper and lower limit temperature range: 0 ~ 99 ℃.

7.8.Temperature Calibration

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

1) Set the temperature 300℃. 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.

8.Maintenance of Tips

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

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 ℃.

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

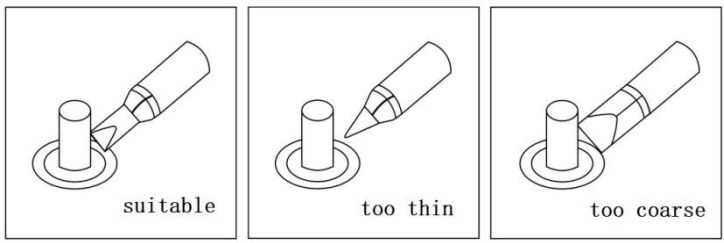
7) Try to solder at low temperature, and the temperature is usually controlled at 320 ~ 380℃. If it is necessary to solder at high temperature, please analyze the adaptability of soldering station and tip before soldering.

9.Select the Appropriate Tips

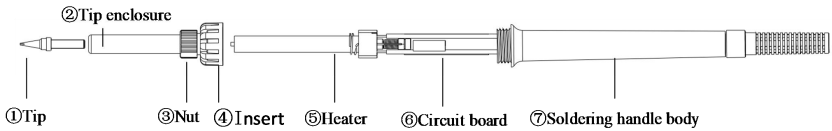
1) It is very important to correctly select the size and shape of tip. A suitable tip can improve the efficiency and increase the durability.

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.



10.Soldering Heater Replacement



10.1.Steps of Removing the Heater

1）Unscrew the ②Tip enclosure and ③Nut.

2）Take out ①Tip.

3）Unscrew ④Insert.

4）Pull out ⑤Heater and ⑥Circuit board.

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

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

10.2.Steps of Replacing the Heater

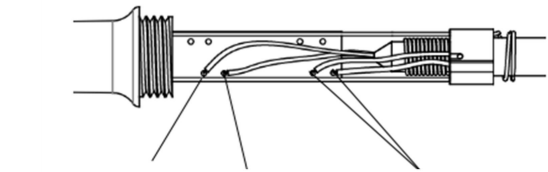
1）Solder ⑤Heater to the ⑥Circuit board, and pay attention to the positive and negative poles of the sensor.

2）Install ⑤Heater into ⑦Soldering handle body.

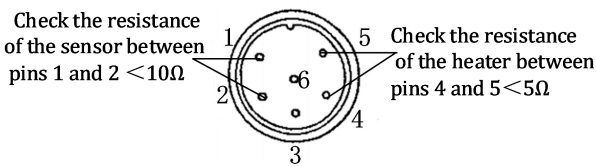
3）Rotate the ④Insert to the ⑦Soldering handle body.

4）Install ①Tip into ⑤Heater.

5）Put ②Tip enclosure and ③Nut on ④Insert and tighten.



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.

11.Menu Settings of Hot Air Desoldering

Note: when the password is locked, you cannot enter the temperature and air volume settings. In this state, re-enter the initial password "000" to set the parameters.

11.1.Temperature Settings

Temperature adjustment

Press TEMP"▲" or "▼" temperature will increase or decrease by 1 ℃. Long press TEMP"▲" or "▼" the temperature will increase or decrease rapidly.

Air volume adjustment

Press the Air"▲" or "▼" key, the air volume will increase or decrease by 1. Long press the Air"▲" or "▼" key the air volume will increase or decrease rapidly.

11.2.Key Tone Settings

1) Check the key tone function in working or sleeping state. Long press the TEMP "▲" and "▼" keys at the same time for about 3s, and the system will switch the key tone on or off.

2）The screen displays " " , indicating the system has key tone and alarm tone. When the screen does not display " ", indicating the system has no key tone or alarm tone.

11.3.Password Settings

In the initial state (the password is "000"), the password needs to be changed. The steps are as follows:

Input Password

1) Turn off the power switch, press and hold the "AIR ▲" or "AIR ▼" key, and turn on the power switch until the screen displays "C", then release the key. At this time, the screen displays "password" and "SET", and the system enters the password setting state.

2）Enter the first password input interface, the hundreds digit flashes, press the "TEMP ▲" or "TEMP ▼" key to select the password value, and press the "AIR ▲" or "AIR ▼" key to select among the hundreds digit, tens digit and units digit.

3）After the first password input is completed, press the "AIR▲" or "AIR ▼" key to confirm, and the hundreds digit flashes to enter the second password input.

4）If the password input twice is different: the screen displays "no", indicating the password modification is unsuccessful, and then the system enters the working state.

5）If the password entered twice are the same: the screen displays the "SAV _ _ _" and gives a prompt tone (in the key tone function on state), indicating the password is changed successfully, and then the system enters the working state.

New Password Settings

When the password has been modified and needs to be reset, you must input the correct password before entering the password settings

1）If the input password is incorrect, the screen will display "no", and directly enter the working state (at this time, the key is locked, and the parameter value cannot be modified).

2）If the password entered is correct: the screen will display "SET" for about 20 seconds.

3）When the screen displays "SET", press and hold the "AIR▲" or "AIR ▼" key to enter the new password setting (the setting method can refer to the password setting in the initial state).

4)When the window displays "SET", press the "TEMP ▲" or "TEMP ▼" key to exit the password setting, or the system enters the working state directly without any operation (at this time, the key is locked and the parameter value cannot be modified).

5）When the new password is set successfully, turn off the power switch and turn on again, after the screen displays "no", it will enter the working or sleeping state. At this time, the key is locked and the parameters such as temperature and air volume cannot be modified.

11.4.Sleeping and Wake Up

Sleeping

1）Put the hot air desoldering handle on the holder, and the system will automatically enter the large air volume cooling state; when the display temperature drops to 100 ℃, the system will immediately enter the sleeping state.

2）When the hot air desoldering station enters the cold air cooling state, the screen displays "off"; when the temperature is lower than 100 ℃, the station enters the sleeping state, the screen displays "Sleep".

Wake Up

1）If the handle is placed on the holder, it cannot be woken up.

2）When the handle is removed from the holder, the station immediately enters the working state.

12.Temperature Calibration of Hot Air Desoldering

The temperature should be recalibrated every time if the heating element is replaced.

1）Set the temperature to 300℃

2）In working state, when the temperature is stable, test the air outlet temperature with thermometer and record the reading value.

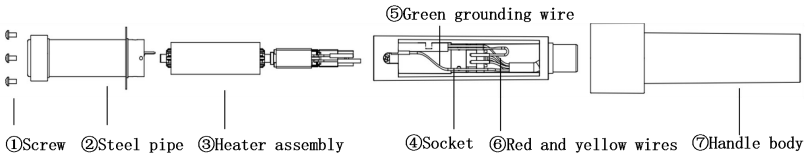
3）Long press "TEMP ▲" and "TEMP ▼" keys for about 8s at same time to enter temperature calibration. The screen displays "CAL" for about 2s before entering the temperature calibration input interface.

4）The displayed temperature of hundreds digit flashes, press "TEMP ▲" or "TEMP ▼"key to select the value, and press "AIR▲" or "AIR▼" key to confirm after selecting the value, then go to the next digit selection. After inputting the reading value, press "AIR▲" or "AIR▼" key to confirm, and the temperature calibration is completed.

5）If the temperature calibration is successful, the screen displays "SAV ---"; if the temperature calibration is unsuccessful, the screen displays "no ---".

Note: If there is no QUICK196, it is recommended that the temperature measuring head of the external sensor of the thermometer be placed 3～5mm away from the nozzle for temperature test.

13.Hot Air Desoldering Heater Replacement



13.1.Steps of Removing the Heater

1）Turn the handle end spring clockwise to disengage the handle end.

2）Unscrew the three ①Screws on ②Steel pipe.

3）Pull out ②Steel pipe and ③Heater assembly from ⑦Handle body.

4）Cut off the cable tie, and unplug the ⑥Red and yellow wires that connect the handle wire and the heater in turn.

5）Straighten the pin limit plate at the tail of ②Steel pipe, pull out ⑤Green grounding wire and remove ②Steel pipe.

6）Unplug the ④Socket inserted with the heater, and remove the damaged heater from ③Heater assembly.

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

13.2.Steps of Replacing the Heater

1） Put ③Heater assembly into handle inner core and plug it into ④Socket(green color).

2） Insert the yellow wire of the magnetic control sensor into the yellow wire of the heater, and insert the red wire of the handle wire into the red wire of the heater.

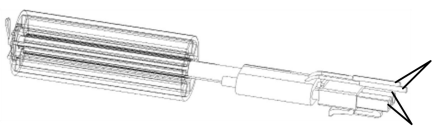
3）Sleeve the ②Steel pipe on the ③Heater assembly and install it into the inner core, lock the screw at the tail of the steel pipe, and then insert the ⑤ Green grounding wire into the ②Steel pipe pin.

4） Tie up ④Socket with a cable tie, and then cut off the redundant cable tie.

5） Install the handle inner core with the replaced heater into ⑦Handle body, and then tighten the three ①Screws.

6） Turn the spring counterclockwise to the end of the handle.

7) After replacing the heater, test the following parameters:



Resistance of heater：220V:40Ω（±10%）
110V:10Ω（±10%）

8) After the heater is replaced, it is recommended to calibrate the temperature. (See the hot air desoldering temperature calibration steps for details)

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

14.Installing and Removing the Nozzle

1）Installation: insert the selected nozzle into the air outlet steel pipe of the handle, and then press the nozzle into the air outlet steel pipe by hand, and make sure that the nozzle has been clamped before use.

2）Removing: when disassembling the nozzle, remove the handle from the holder. There is a card slot between the nozzle and the steel pipe of the air outlet. Put the handle on the nozzle removal plate through the clamping groove, fix the holder with one hand, and then gently pull the handle back to take out the nozzle.

⚠Note:Nozzle can be customized.
Replace the nozzle after cooling down to avoid scalding.

15.Troubleshooting

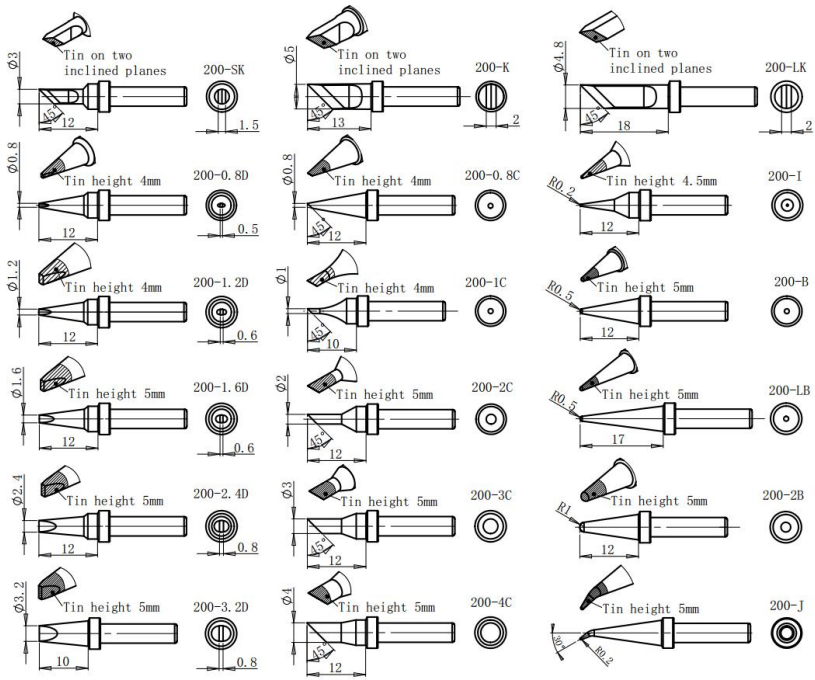
Soldering Section

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

Hot air Desoldering Section

No.	Error display	Error description
1	S-E	The heater is error, please check the heater.
2	H-E	The sensor is error, please check the sensor.
3	F-E	The cooling fan is error, please check the fan.

16.Selection 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.

QUICK INTELLIGENT EQUIPMENT CO., LTD.
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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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