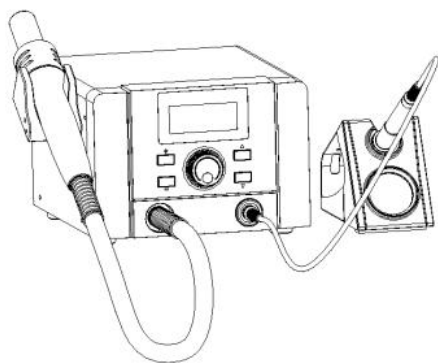




QUICK 709D+ REWORK SYSTEM

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.
- 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°C.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

This product is a 2-in-1 rework system that integrates soldering and hot air desoldering. Two kinds of tools can work together, easy and fast to operate, suitable for the desoldering and soldering of various packaging components, suitable for maintenance and R&D electronic engineers.

3.Product Characteristics

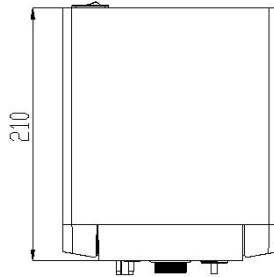
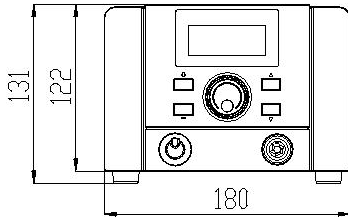
- Large LCD display
- Integrating temperature control and air flow control.
- Adopt the encoder to adjust the air volume, and the buttons to adjust the temperature.
- Digital temperature calibration, easy operation.
- Can be equipped with a variety of long-life soldering tips and nozzles, easy to use.
- Soldering handle is light and comfortable to use.

4.Product Specifications

Model	709D+	
Display	LCD	
Power consumption	1250W (soldering station70W)	1350W (Soldering: station70W)
Voltage	AC 110V	AC 220V/AC230V
Soldering temperature range	100~480°C	
Hot air temperature	100~500°C	
Hot air temperature	±5°C (Still air, no load)	
Soldering	±2°C (Still air, no load)	
Air volume range	1~100 Level	
Airflow capacity	50L/min (Max)	
Operation ambient	0~40°C	
Tip to ground	<2mV	
Tip to ground	<2Ω	
Dimensions(L*W*H)	180*210*131mm	
Weight	About 3.3 Kg	

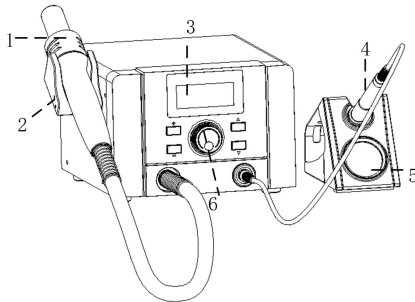
5.Functional Descriptions

5.1.Dimensions



Unit: mm

5.2.Part Descriptions



No.	Part Name
1	Hot air desoldering handle
2	Hot air desoldering holder
3	LCD
4	Soldering handle
5	Soldering handle holder
6	Air volume adjustment knob

5.3.Key Descriptions

Key	Function Descriptions
+/-	<p>Press the +/- key respectively, the hot air temperature rise/down</p> <p>In the main interface, press and hold the +/- key at the same time: hot air desoldering function on/off</p> <p>In the calibration interface, press and hold the +/- key to confirm the hot air desoldering calibration temperature.</p>
▲/▼	<p>Press the ▲/ ▼key respectively, the soldering temperature rise/down</p> <p>In the main interface, press and hold the ▲/▼ key at the same time: soldering function on/off</p> <p>In the calibration interface, press and hold the ▲/ ▼ key to confirm the soldering calibration temperature.</p>
+ and ▲	<p>Press and hold them at the same time to enter the soldering temperature calibration interface.</p>
- and ▼	<p>Press and hold them at the same time to enter the hot air desoldering temperature calibration interface.</p>

5.4.Function Descriptions of the Main Interface



Hot air ON



Hot air sleeping






Hot air OFF

Soldering ON

Soldering working

Soldering OFF

Symbols	Descriptions	Symbols	Descriptions
	The soldering heating state	=	The soldering constant temperature state
	Fan rotation: hot air desoldering working state Fan stop: hot air desoldering not working		The soldering cooling state
1	Airflow level display (1-100 level)	---	The hot air desoldering sleeping state
OFF	The soldering and the hot air desoldering are off	°C	Temperature unit
S-E	Sensor error	H-E	Heater error

6. Installation and Connection

6.1. Connection of Soldering Handle

- 1) Insert the connecting plug of the soldering handle into the five-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. Installation of Hot Air Desoldering Handle

When the machine is used for the first time, the hot air desoldering handle holder must be installed, as shown in the figure below.

- 1) Remove the two screws on the left side of the machine that fixed the holder.
- 2) Align the mounting hole of the hot air desoldering holder with the two screw holes on the machine, and tighten the two screws that are removed.
- 3) Install the hot air desoldering holder, place the handle on the holder, and check whether it is suitable.

Note: The hot air handle holder can be installed on the left or right side of the system according to actual needs.



6.3.Connection of Main Unit

Connect the power supply to the machine, turn it on and start working.

7.Operation

Temperature adjustment of the soldering station

Press " ▲ " or " ▼ " button: temperature increases or decreases by 1°C.
Long press " ▲ " or " ▼ " button: temperature increases or decreases rapidly.

Temperature adjustment of the hot air desoldering

Press "+" or "-" button: temperature increases or decreases by 1°C. Long press "+" or "-" button: temperature increases or decreases rapidly.

Airflow adjustment of hot air desoldering

Adjust the airflow adjusting knob clockwise to increase the air volume, otherwise decrease the air volume.

Sleeping mode of hot air desoldering

Place the handle of the hot air desoldering on the holder, start cooling with large air volume, and enter the sleeping state.

8.Password Settings

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

Enter password setting mode

- 1) Turn off the system, press the " ▲ " and " ▼ " buttons at the same time, and then turn on the machine.
- 2) Long press the " ▲ " and " ▼ " buttons, "C" will be displayed after a beep sound, and the "---" display on the interface.

3) After entering the correct password, go to parameter setting.

Input the initial password

1) The window shows "- -" and the hundreds digit flashes, at this time the digit can be adjusted (enter the initial password).

2) Input the original password: adjust the air volume adjustment knob to change the hundreds digit number, press the "▲" key to select the digit, when 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 and hold the "▲" and "▼" keys at the same time to confirm the setting.

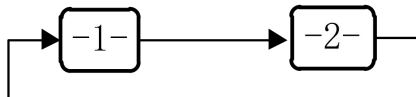
3) **If the first password is wrong:** directly enter the second password input mode, and the password input way is the same as the first time. (There are two chances of password input.)

4) **If the password entered twice is wrong:** the window display "ERR", and directly to the main interface.

5) **If the first or second password is correct:** go directly to parameter setting and the window display "-1-".

9. Parameter Settings

1) If password is input correctly, the parameter menu can be entered, as shown in the following figure



2) Press the "▲" or "▼" key, after selecting the -1-parameter menu, press the "▲" and "▼" keys at the same time to return to the main interface; after selecting the parameter menu -2-, press the "▲" and "▼" keys at the same time to enter the new password setting.

10.New Password Settings

- 1) After entering the new password setting, the window shows "---" and the hundreds digit blinks.
- 2) Adjust the airflow adjustment knob to change the hundreds digit, press the "▲" button to move the digit, when the tens digit starts blinking, it can be set. The setting method of the tens and one digit is the same as that of the hundreds digit. When the one digit setting is completed, press and hold the "▲" and "▼" keys at the same time to confirm. Enter the second password input mode, and the password input way is the same as the first time.

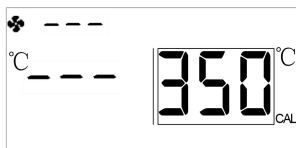
Note: If the two passwords input are not the same, the window will display "ERR", indicating that the password setting is unsuccessful. It will return to the parameter setting, and the password will remain unchanged.

If two passwords input are the same, the window displays "OK", indicating that the password setting is successful, and it returns to the parameter setting. Shut down and restart the machine, the new password takes effect.

11.Temperature Calibration

11.1.Soldering Temperature Calibration

- 1) Set the temperature of the soldering to 350°C.
- 2) When the temperature is stable, use the soldering tip temperature tester to measure the tip temperature and write down the readings.
- 3) Long press the "+" and "▲" button at the same time to enter the temperature calibration interface.



4) Press the "▲" or "▼" button to change the temperature of the soldering. Long press the "▲" and "▼" button to save.

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

11.2. Hot Air Desoldering Temperature Calibration

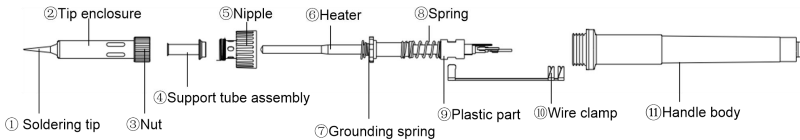
- 1) Set the hot air temperature to 300°C.
- 2) Long press "▼" and "-" at the same time to enter the hot air temperature calibration mode.
- 3) When the temperature is stable, use the hot air temperature tester to measure the hot air desoldering temperature, press "+" or "-" to change the hot air temperature, long press "+" and "-" at the same time to confirm, and return to the main interface.



Note: It is recommended to use QUICK 196 series hot air temperature tester to measure hot air desoldering temperature.

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.

12.Soldering Heater Replacement



12.1.Steps of removing the Heater

- 1) Unscrew the ②Tip enclosure and ③Nut.
- 2) Take out ①Soldering tip, ②Tip enclosure, ④Support tube assembly, and unscrew ⑤Nipple.
- 3) Pull out ⑥Heater from ⑪Handle body.
- 4) Pull up the ⑩Wire clip from the ⑨Plastic part.
- 5) Unplug the three leads inserted into the pins of the ⑥Heater.
- 6) Remove the ⑨Plastic parts, ⑧Springs and ⑦Grounding springs on the ⑥Heater.

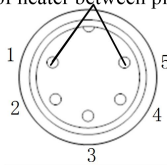
⚠Note: All operating steps are performed with the power disconnected and the handle cooled.

12.2.Steps of replacing the Heater

- 1) Insert the three wires on the pins of the ⑥Heater.
- 2) Insert the ⑩Wire clamp into the ⑨Plastic part.
- 3) Install ⑥Heater into ⑪Handle body.
- 4) After screwing on the ⑤Nipple, install the ④Support tube assembly and ①Soldering tip.
- 5) Put ②Tip enclosure and the ③Nut on the ⑤Nipple and screw it tightly.

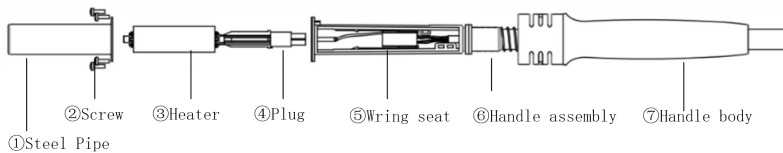
6) After replacing the heater, please do the following measurements:

Test resistance of heater between pin 1 and 5 : $10\Omega (\pm 10\%)$



7) After the heater is replaced, it is recommended to calibrate the temperature. (See the soldering station temperature calibration steps for details)

13. Hot Air Desoldering Heater Replacement



13.1. Steps of removing Heater

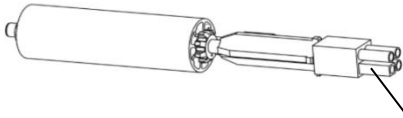
- 1) Unscrew the four ②screws.
- 2) Push the ⑥Handle assembly out of the ⑦Handle body.
- 3) Pull out ①Steel pipe.
- 4) Pull out ③Heater.
- 5) Make a replacement.



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

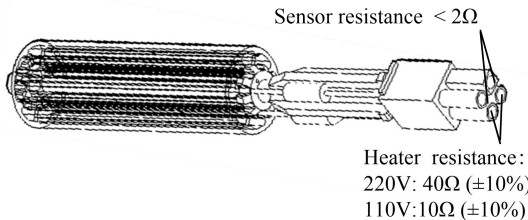
13.2.Steps of replacing the Heater

- 1) Install the ③Heater on the ⑥Handle assembly, and insert the square column on the ③ Heater into the square hole on the ④Plug.
- 2) Put ①Steel pipe on the ③Heater.
- 3) Install the ⑥Handle assembly into the ⑦Handle body, pay attention to the alignment of the four holes.
- 4) Screw on four ②Screws.



This square is opposite to the square hole of the plug

- 5) After replacing the heater, please do the following measurements:

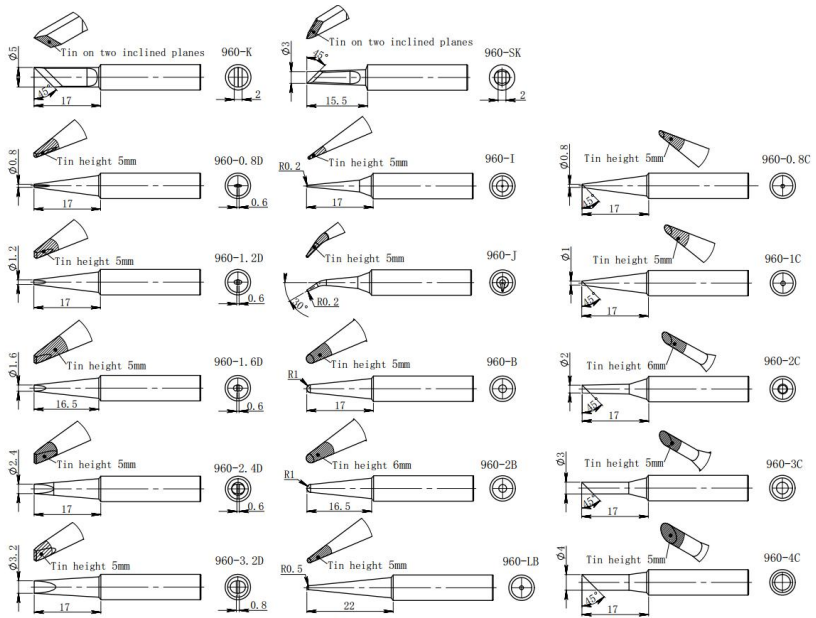


- 6) After the heater is replaced, it is recommended to calibrate the temperature. (See the hot air desoldering temperature calibration steps for details)

14.Troubleshooting

No.	Error display	Error description
1	S-E	The sensor is error If the sensor or any part of the sensor circuit fails, the "S-E" mark indicates that the current to the soldering tip is cut off.
2	H-E	The heater is error If the soldering cannot supply power to the heater of the soldering tip, the window displays "H-E", indicating that the heater may be damaged.
3	F-E	The cooling fan is error. Restart, if the error is still reported, it means that the fan is damaged.

15.Selection of Tips

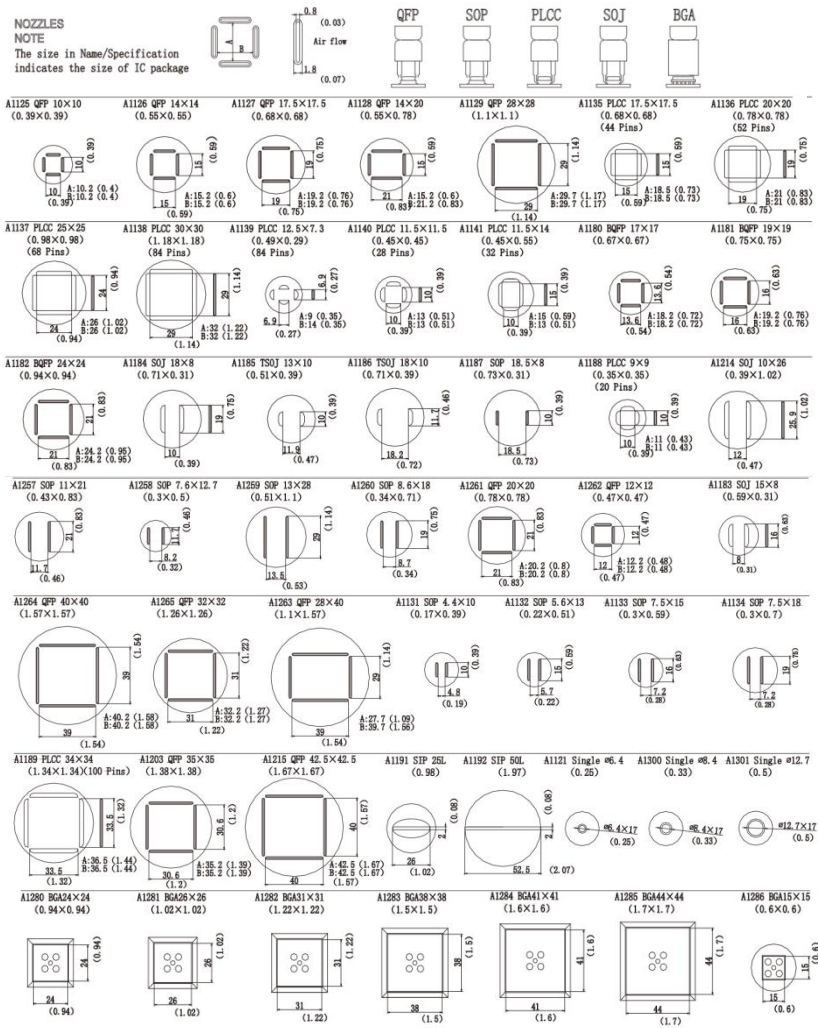


16. Selection of Nozzles

NOZZLES

NOTE

The size in Name/Specification indicates the size of IC package



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
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High-Tech Industrial Development
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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