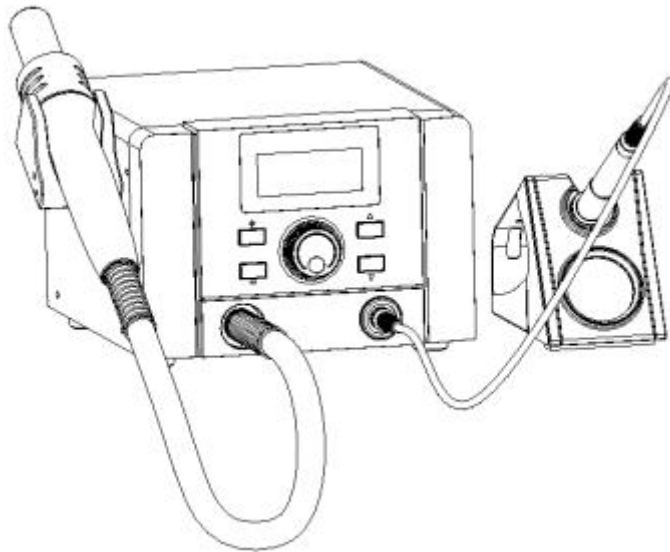




QUICK 709D+

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 Instruction



CAUTION

- During the installation and use of the product, you need to observe the electrical safety regulation of location.
- Please power off the product during disassembly.
- If the product is not working properly, please contact the supplier or manufacture, do not disassemble or modify without notice. We will not be liable for any problems caused by unauthorized maintenance or modification of the product.



WARNING

- Products should be used away from magnetic field.
- Do not place the product where the surface is vibrated or subject to shocks.
- Do not install the product where it maybe wet.
- Do not use the product near flammable materials.
- The product should be keep ventilation during operation. Turn off the product when resting or after completion..
- Do not use the product when it is damaged, inspection and maintenance regularly.
- The handle is placed on the holder, the system will sleep automatically when the temperature is less than 100 °C.
- Please unplug the power cable when the product is not used for a long time.

2. Product Overview

This product is a 2-in-1 rework system which integrates hot air de-soldering and soldering. Two kinds of tools can cooperate with each other, easy to operate, suitable for the disassembly and soldering of various packaging components, suitable for maintenance and R& D electronic engineers.

3. Product Features

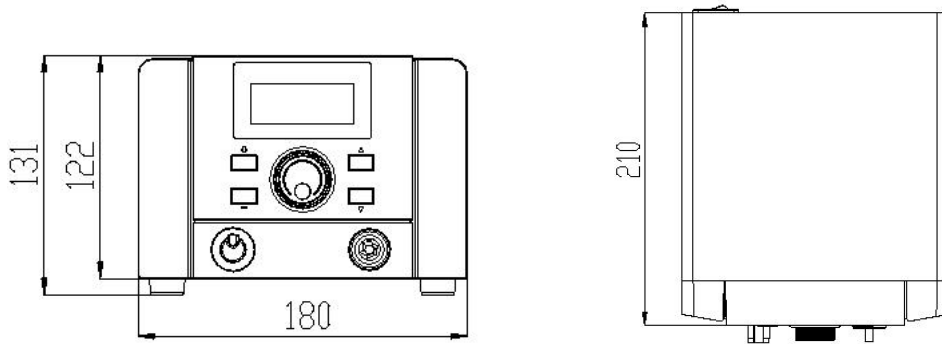
- LCD display.
- Integrates temperature control and air flow control.
- Supports digital temperature calibration, which enables easy operation.
- Equipped with a variety of general tips and nozzles, easy to use.
- Soldering iron is light weight and comfortable to use.
- The hot air automatically goes into sleep mode when the tool is on the holder and the temperature is less than 100 °C.

4. Product Specifications

Product model	709D+	
Display	LCD	
Max power	1250W (soldering station70W)	1350W (soldering station70W)
Working voltage	AC 110V	AC 220V/230V
Soldering station temperature range	100~480°C	
Hot air temperature range	100~500°C	
Hot air temperature stability	±5°C (Still air, no load)	
Soldering iron temperature stability	±2°C (Still air, no load)	
Hot air range	1~100 Level	
Airflow capacity	50L/min (Max)	
Operation ambient	0~40°C	
Tip to ground potential	<2mV	
Tip to ground resistance	<2Ω	
Dimensions(L*W*H)	180*210*131mm	
Weight	About 3.3 Kg	

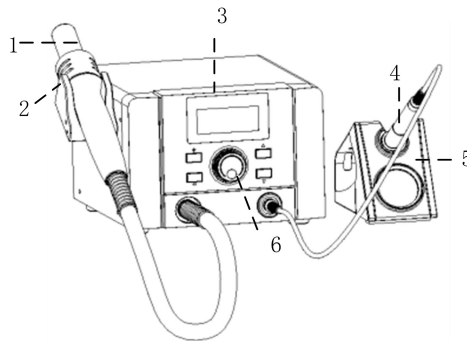
5. Display and Function Descriptions

5.1 Dimensions



Unit: mm

5.2 Part Descriptions

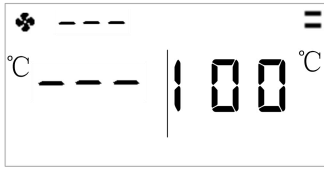


No.	Part Name
1	Hot air handle
2	Handle holder
3	LCD
4	Soldering iron handle
5	Iron stand
6	Air volume control knob

5.3 Button Descriptions

Button	Descriptions	Button	Descriptions
+	Hot air temperature increase button	-	Soldering temperature increase button
▲	Hot air temperature decrease button	▼	Soldering temperature decrease button
"+" and ▲	Press and hold it at the same time to enter the hot air temperature calibration mode.	"-" and ▼	Press and hold it at the same time to enter the soldering temperature calibration mode.
"+" and "-"	<ol style="list-style-type: none"> 1. Press and hold at the same time, in the main interface to turn on or off the hot air. 2. In the calibration mode to confirm the calibration temperature. 	▲ and ▼	<ol style="list-style-type: none"> 1. Press and hold at the same time, in the main interface to turn on or off the soldering station. 2. In the calibration mode to confirm the calibration temperature.

5.4 Main Menu







Hot air and iron working



Sleep of hot air and iron working



Hot air and iron OFF

Icon	Descriptions	Icon	Descriptions
	The soldering station heating state		The soldering station thermostat status
	Fan rotation: Work Fan stop: No work		The soldering station cooling state
1	Airflow level display (1-100 level)	- -	The hot air gun sleeping state
OFF	The soldering station and the hot air station function off	°C	Temperature unit
S-E	Sensor error	H-E	Heater error

6. Product Installation and Connection

6. 1 Soldering Station

6.1.1 Usage of Soldering Iron and Cleaning Sponge

- 1) Wet the cleaning sponge first and then squeeze it dry.
- 2) Place the cleaning sponge into the groove of the base of the soldering iron stand.
- 3) In the process of use, if the cleaning sponge gets dry, you should add water appropriately.

6.1.2 Soldering Iron Connection

- 1) Insert the connection plug of the soldering iron handle line into the five-core socket on the front of the host, and pay attention to the convex inside the plug and the groove of the socket.
- 2) Place the soldering iron in the iron holder.

6.2 Hot Air Station

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

- 1) Remove the two screws on the left side of the machine that fix the holder.
- 2) Align the mounting hole of the hot air handle holder with the two screw holes on the machine, and tighten the two screws that were removed.

3) Install the hot air handle holder, place the hot air handle on the hot air handle holder and check for suitability.

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

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

7. Temperature Setup

Temperature of the soldering station regulation

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

Hot air station temperature regulation

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

The hot air airflow adjustment

Adjust the knob clockwise to increase the airflow, and otherwise decrease the airflow.

The hot handle sleeping

Place the handle on the holder to start cooling air and the product enters sleeping mode.

8. Password Setup

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 system.
- 2) Press and hold the "▲" and "▼" buttons, C will be displayed after a beep, and the "---" display will pop up on the interface.
- 3) After entering the correct password, go to parameter setting.

Enter the initial password

- 1) The window shows "- - -" and the leftmost digit flashes, at this time the digit can be adjusted (i.e. enter the initial password).
- 2) Enter the initial password: adjust the middle knob to change the hundreds' digit, press the "▲" button to move the digit, and then the tens' digit will start flashing to be set, and the tens' and units' digit will be set in the same way as the hundreds' digit. When the digit is set, press and hold the "▲" and "▼" button at the same time to confirm.
- 3) **If the first password is wrong:** then directly enter the second password, and the input way is the same. (There are two chances of password input. If the first password is wrong,

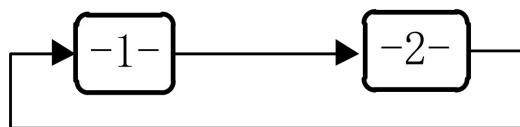
you can directly enter the second password.)

4) **If the password entered twice is wrong:** The menu will show "ERR", and then directly enter the main interface.

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

9. Parameter Setup

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



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

10. New Password Setup

1) After entering the new password setting, the window shows "---" and the hundreds' digit blinks.

2) Then adjust the middle knob to change the hundreds' digit, press the "▲" button to move the digit, and then the tens' digit starts flashing to be set. When the units' digit is set, press

and hold the "▲" and "▼" button at the same time to confirm. The second setting method of password is the same as the first setting method of password.

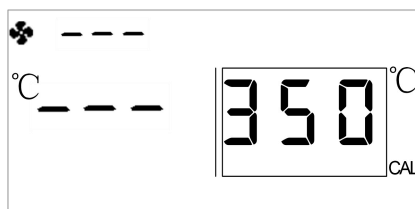
Note: If the number of password entered twice before and after is not the same, the window shows "ERR", which means the password setting is not successful, return to parameter setting, and the password remains unchanged.

If the number of password entered twice before and after is the same, the window will show "OK", which means the password setting is successful and return to parameter setting. Shutdown, restart, and password will take effect.

11. Temperature Calibration

11.1 Soldering Temperature Calibration

- 1) Set the temperature of the soldering station to 350°C.
- 2) When the temperature is stable, use the soldering iron temperature tester to measure the tip temperature and write down the readings.
- 3) Press and hold the "+" button and "▲" button at the same time. The soldering station enters into the temperature calibration mode.



- 4) Press the "▲" or "▼" button to change the temperature of the soldering station.

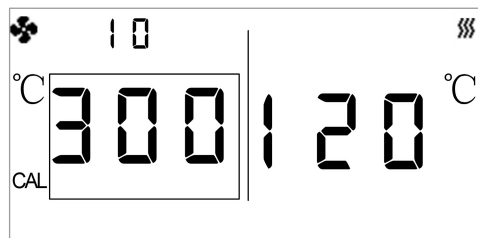
Long press the "▲" and "▼" button to save.

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

11.2 Hot Air Temperature Calibration

- 1) Set the hot air temperature to 300°C calibration.
- 2) Press and hold "▼" 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 temperature, press "+" or "-".

Change the hot air temperature, press and hold "+" and "-" to confirm, and return to the main screen.

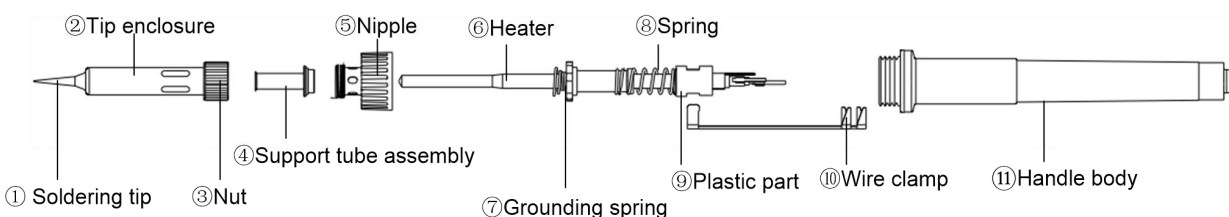


Note: It is recommended to use QUICK 196 series hot air temperature tester to measure hot air temperature. If there is no QUICK196, it is recommended that the temperature tester be connected to the temperature head of the sensor and placed 3 to 5mm away from the air nozzle to measure the temperature.

12. Tip Maintenance

- 1) When a new tip is used for the first time, set 250 to 280°C to protect the tip with solder.
- 2) Select the tip size according to the size of the solder joint.
- 3) To prevent tip oxidation, a fresh layer of solder should be plated before putting back into the soldering iron holder.
- 4) There should not be too much water in the cleaning sponge to get a good cleaning effect on the tip and to avoid rapid temperature drop of the tip. Using a dry & cleaning sponge will damage the tip and cause no tinning.
- 5) After the tip is improperly oxidized by use, do not clean the surface plating by grinding. Please use metal wire or resurrection paste to clean the tip at low temperature (250~280°C).
- 6) Do not apply heavy force to the tip when soldering and avoid using solder to the same place.
- 7) Use low-temperature soldering as much as possible. Generally, the soldering temperature is controlled at 320~380°C. If you need to set a high temperature to solder, please analyze whether the soldering station and tip are matched, and then perform soldering.

13. Soldering Station Heater Replacement



13.1 Steps of removing the Heater

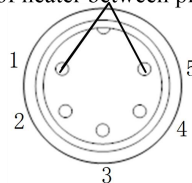
- 1) Pull out the ①Soldering tip and screw down the ⑤Nipple;
- 2) Pull out the ⑥Heater from the ⑪Handle body;
- 3) Pull out the ⑩Wire clamp from the ⑨Plastic part upward;
- 4) Unplug the three leads plugged into the heater pin;
- 5) Remove the ⑨Plastic part, ⑧Spring and ⑦Grounding spring .

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

13.2 Steps of replacing the Heater

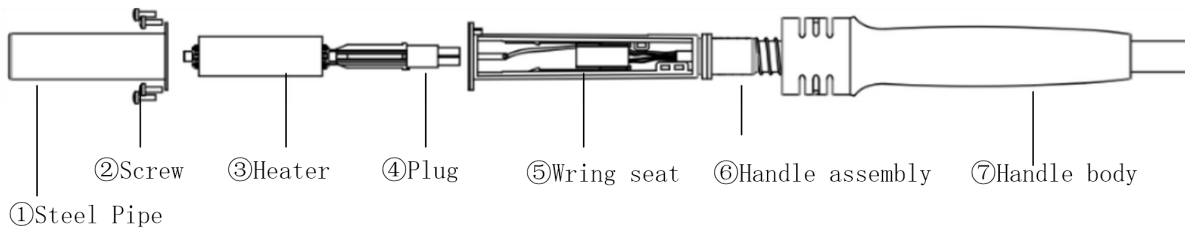
- 1) Plug the three wires into the ⑥Heater pins;
- 2) Install the ⑧Spring and the ⑦ Grounding spring, and snap the ⑩Wire clamp into the ⑨ Plastic part;
- 3) Put ⑥ Heater into ⑪ Handle body;
- 4) Screw on ⑤Nipple and Install ①Soldering tip;
- 5) Put ② Tip enclosure and ③ Nut on ⑤Nipple and screw them tightly;
- 6) After replacing the heater, the following measurements are recommended:

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




- 7) Calibrate the temperature, refer to Soldering temperature calibration.

14. Hot Air Heater Replacement



14.1 Steps of removing Heater

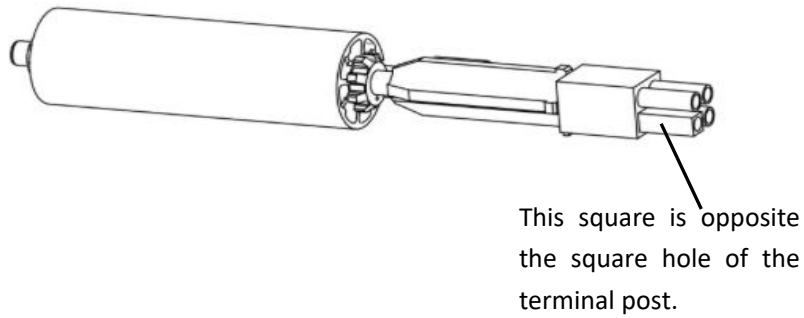
- 1) Screw down ② Four screws;
- 2) Push the ⑥ Handle assembly out of the ⑦ Handle body;
- 3) Pull out ① Steel Pipe;
- 4) Pull out ③ Heater;
- 5) Performing replacements.

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

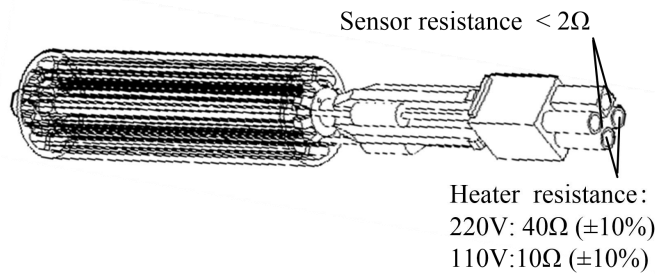
14.2 Steps of replacing the Heater

- 1) Mount the ③ Heater to the ⑥ Handle components, and the square post on the ③ Heater is facing the square hole on the terminal post;
- 2) Put ① Steel pipe onto ③ Heater;
- 3) Install the ⑥ Handle assembly into the ⑦ Handle body, paying attention to the alignment of the four holes;

4) Screw on four ②Screws;



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

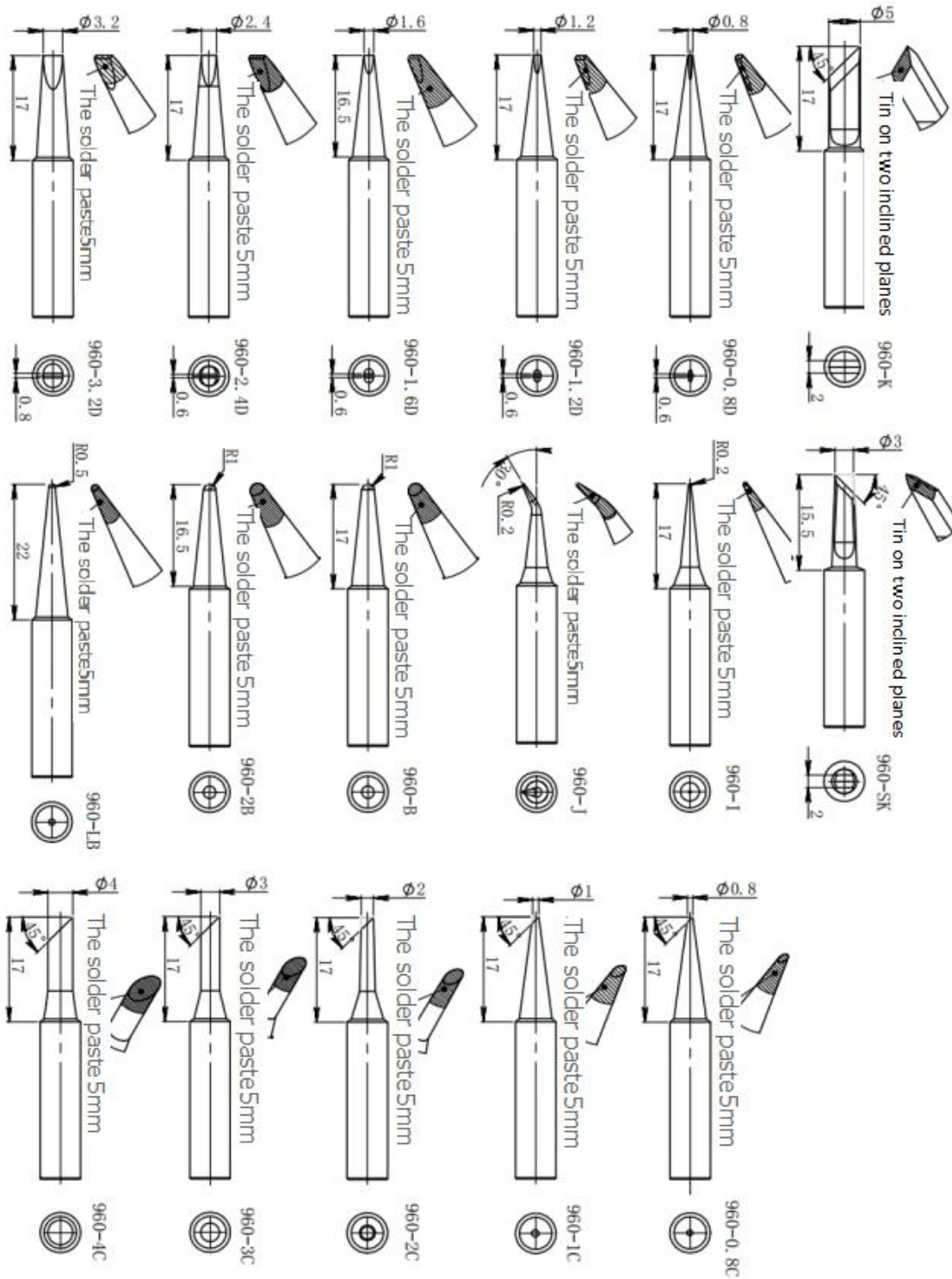


6) Calibrate the temperature, refer to Soldering temperature calibration.

15. Troubleshooting

No.	Error	Fault Descriptions
1	S-E	The sensor is error If the sensor or other parts of the sensor circuit fails, the "S-E" mark is displayed and the current to the soldering iron is cut off.
2	H-E	The heater is error If the soldering station cannot deliver power to the soldering iron heater, the window displays "H-E", indicating that the heater is damaged.
3	F-E	The cooling fan is error. Restart. If it still reports error, it means the cooling fan is damaged.

16. Tips

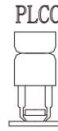
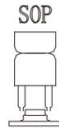
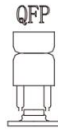
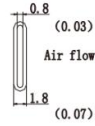
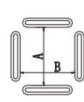


17. Nozzles

NOZZLES

NOTE

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



Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	
A1125 QFP 10×10 (0.39×0.39)	A1126 QFP 14×14 (0.55×0.55)	A1127 QFP 17.5×17.5 (0.68×0.68)	A1128 QFP 14×20 (0.55×0.78)	A1129 QFP 28×28 (1.1×1.1)	A1135 PLCC 17.5×17.5 (0.68×0.68) (44 Pins)	A1136 PLCC 20×20 (0.78×0.78) (52 Pins)	
A1137 PLCC 25×25 (0.98×0.98) (68 Pins)	A1138 PLCC 30×30 (1.18×1.18) (84 Pins)	A1139 PLCC 12.5×7.3 (0.49×0.29) (84 Pins)	A1140 PLCC 11.5×11.5 (0.45×0.45) (28 Pins)	A1141 PLCC 11.5×14 (0.45×0.55) (32 Pins)	A1180 BQFP 17×17 (0.67×0.67)	A1181 BQFP 19×19 (0.75×0.75)	
A1182 BQFP 24×24 (0.94×0.94)	A1184 SOJ 18×8 (0.71×0.31)	A1185 TSOJ 13×10 (0.51×0.39)	A1186 TSOJ 18×10 (0.71×0.39)	A1187 SOP 18.5×8 (0.73×0.31)	A1188 PLCC 9×9 (0.35×0.35) (20 Pins)	A1214 SOJ 10×26 (0.39×1.02)	
A1257 SOP 11×21 (0.43×0.83)	A1258 SOP 7.6×12.7 (0.3×0.5)	A1259 SOP 13×28 (0.51×1.1)	A1260 SOP 8.6×18 (0.34×0.71)	A1261 QFP 20×20 (0.78×0.78)	A1262 QFP 12×12 (0.47×0.47)	A1183 SOJ 15×8 (0.59×0.31)	
A1264 QFP 40×40 (1.57×1.57)	A1265 QFP 32×32 (1.26×1.26)	A1263 QFP 28×40 (1.1×1.57)	A1131 SOP 4.4×10 (0.17×0.39)	A1132 SOP 5.6×13 (0.22×0.51)	A1133 SOP 7.5×15 (0.3×0.59)	A1134 SOP 7.5×18 (0.3×0.7)	
A1189 PLCC 34×34 (1.34×1.34)(100 Pins)	A1203 QFP 35×35 (1.38×1.38)	A1215 QFP 42.5×42.5 (1.67×1.67)	A1191 SIP 25L (0.98)	A1192 SIP 50L (1.97)	A1121 Single ø6.4 (0.25)	A1300 Single ø8.4 (0.33)	A1301 Single ø12.7 (0.5)
A1280 BGA24×24 (0.94×0.94)	A1281 BGA26×26 (1.02×1.02)	A1282 BGA31×31 (1.22×1.22)	A1283 BGA38×38 (1.5×1.5)	A1284 BGA41×41 (1.6×1.6)	A1285 BGA44×44 (1.7×1.7)	A1286 BGA15×15 (0.6×0.6)	

18. Consumable List

Nozzle	A1124
	A1130
	A1300
Heater	TR3-H-ZZ-01-220V
Steel pipe	TR3-P-08H
Mica paper	/
ceramic packing	/
Handle	TR3-T
Holder	TR3
The handle sheath	/
Pump components	/
Fan module	863DW+
Sucking pad	/

Tip	960-B
Heater	H1901R
Sensor	/
The Hot Pad	/
Sponge	/
Encloser	RF02H-03-03
Steel Pipe	901A-05
Nipple	901A
Fuse	10A/5x20mm(VDE)
Wire Cleaning Ball	65/Copper clean ball/13g
Iron Stand	927
Soldering Iron	QUICK901RAA

