



防静电二合一拆焊台

Anti-Static 2 in 1 Flat IC Rework Station

使用说明书 INSTRUCTION MANUAL

8786D

中文/English

声明: 本公司保留改进升级产品的权利, 产品规格及设计如有变更, 恕不另行告知。
Statement: The company reserves the right to improve and upgrade products, product specifications and design are subject to change without notice.



广州市谊华电子设备有限公司
GuangZhou YIHUA Electronic Equipment Co.,Ltd.

地址: 广东省广州市广从一路龙归永兴工业区
ADD: YongXing industrial district, LongGui, Guang
Cong road, GuangZhou, GuangDong, China
电话(TEL):+86-20-87470526 传真(FAX):+86-20-87470261



感谢您购买此款热风拆焊台, 本产品是专门为无铅拆焊而设计的, 使用前请仔细阅读本说明书, 阅读后请妥善保管, 以供日后参考。

Thank you for choosing this type of Unsoldering Equipment with Hot Air. The product is designed for soldering and unsoldering without lead. Please read the User Guide thoroughly before use, and keep it in a safe place for future reference.

安全守则

使用本机器，下列基本措施要遵守，以免触电或对人体造成伤害，避免火灾等现象的危害。

- 1、为了确保人身安全，该机器工作完毕后，请关闭机器总电源开关，长期不使用请拔掉电源线!!!
- 2、必须使用原厂认可或推荐的零件，否则将招致严重后果。
- 3、机器故障必须由专业人士或本公司指定人员进行维修。
- 4、本产品使用三线接地插头，必须插入三孔接地插座内，不要更改插头或使用未接地三头适配器而使接地不良。
- 5、热风枪或电焊台开启后，其温度都有可能达到400度以上。切勿在易燃、易爆气体、物体附近使用。喷管及喷出的热气都十分炎热，能灼伤人体，切勿触摸发热管及热气直接喷向人体。
- 6、热风枪开启前请确保热风枪处于安全状态,热风枪开启后切勿离开工作岗位。
- 7、安装喷嘴时不可在热风枪开启时，必须在发热管与喷嘴冷却后才可安装。
- 8、请保持进/出风口畅通，不能有堵塞物。
- 9、使用后，切记要冷却机身，应将手柄放回手柄架，机器进入休眠后再关机。
- 10、切勿使用烙铁进行焊接以外的工作；切勿用烙铁敲击工作台面以清除焊剂残余，此举可能严重损坏烙铁。
- 11、焊接时会冒烟雾，请做好应有的通风设施。

警告

- 1、如果电源线损坏，为了避免危险，必须由制造商或维修部分的专业人员进行更换。
- 2、本工具不使用时必须放置在它的支架上。
- 3、在有易燃材料的地方使用本器具时要小心；不要长时间在同一地方使用本器具。
- 4、要意识到热可能传递到远处的易燃材料；器具接通时需有人照看。
- 5、器具不打算由存在肢体、感官或精神能力缺陷或缺乏使用经验和知识的人（包括儿童）使用，除非有负责他们安全的人对他们进行与器具使用有关的监督或指导；应照看好儿童，确保他们不玩耍本器具。

一、产品特点

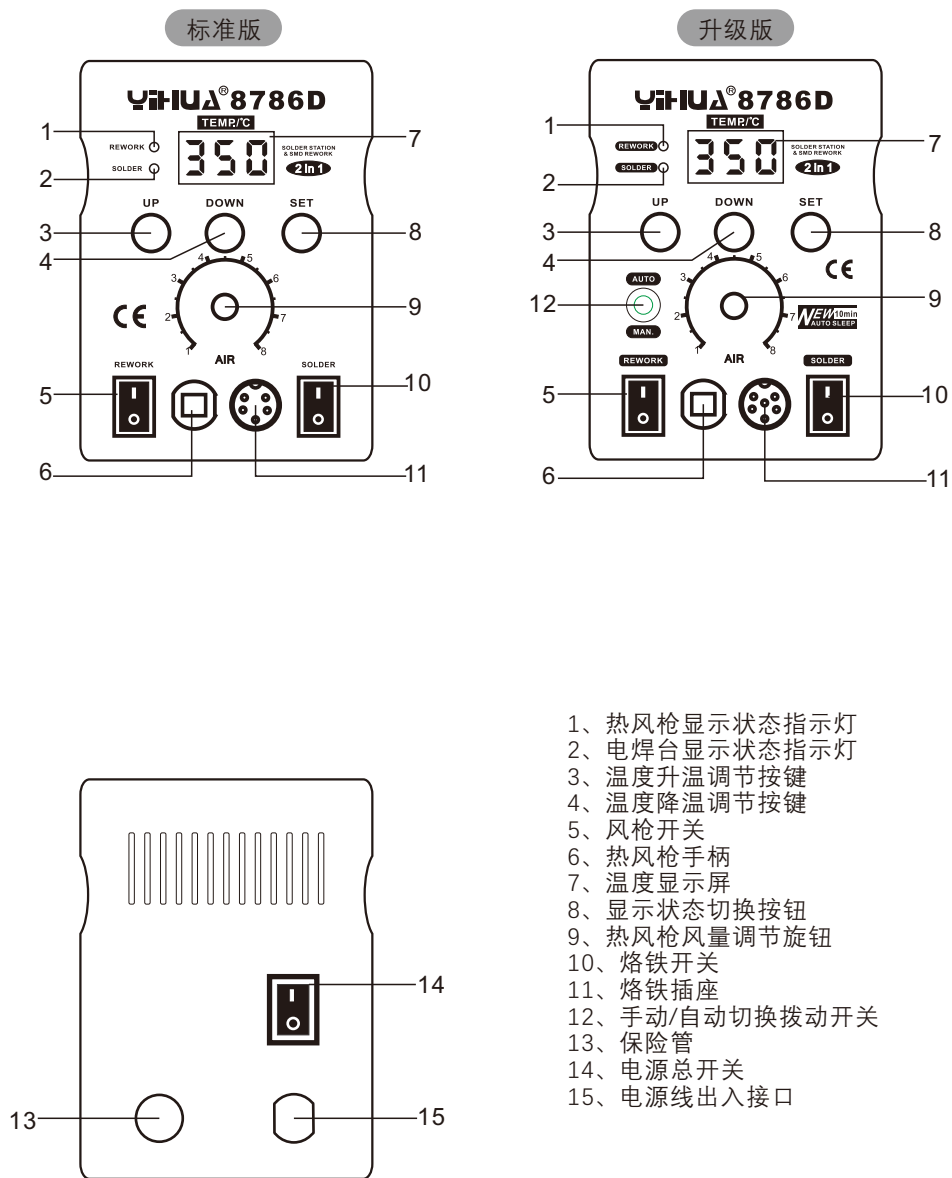
标准版

- 1、传感器闭合回路，微电脑PID控制，控温精准。LCD数码可显示风枪/烙铁工作状态，按键切换两种显示模式，方便直观。
- 2、热风枪功率大，升温迅速，出风柔和，风量大，非常适合无铅拆焊作业。
- 3、焊台发热体采用低电压电源供电，能有效的保护敏感器件及工作人员安全。
- 4、完美的二合一组合，采用铁合金外壳，机身小巧，占用工作台面面积小。
- 5、具有故障自我检测和故障报警功能。

升级版

- 1、升级版继承了标准版的所有优点，并增设了风枪手动/自动切换功能。拨动开关切换，方便、快捷。
- 2、自动模式下，风枪手柄放回手柄架上，风枪会自动降温到待机状态。此模式适合不是太频繁焊接的情况，能有效节省电能，并降低机器（主机、发热芯等）的磨损，延长使用寿命。
- 3、在手动模式下，风枪放回手柄架上，风枪仍然保持当前的工作温度，此模式非常适合需要频繁使用的情况，可省去风枪反复回温的时间，提高焊接效率。
- 4、烙铁休眠功能：烙铁自动检测自身工作状态在没有人使用处于静止状态时，到出厂预设的休眠时间（10分钟），烙铁温度自动降温到200℃进入睡眠状态。可有效的防止烙铁头氧化和延长了烙铁头使用寿命，节能环保。

二、主机面板示意图



三、技术参数

额定电压	220V ±10% 50Hz
整机功率	≤750W
尺寸	L148xW99xH140mm ±5mm
重量	2.5kg
工作环境	0~40℃
储存温度	-20~80℃
储存湿度	35%~45%
热风枪部分	
温度范围	100℃-480℃
温度稳定性	±2℃ (静态)
气流类型	无刷风机柔和风
气流量	120L/min (最大)
电焊台部分	
工作电压	26V±10% 50Hz
温度范围	200℃-480℃
温度稳定性	±2℃ (静态)
焊咀对地阻抗	< 2Ω
焊咀对地电压	< 2mV

四、性能对照表

性能 \ 机型	标准版	升级版
显示形式	LED切换	LED切换
风枪手动自动	无	有
烙铁休眠功能	无	有

五、用途

- 1、适合多种元件的拆焊如：SOIC、CHIP、QFP、PLCC、BGA等（特别适用于手机排线及排线座的拆焊）。
- 2、用于热收缩、烘干、除漆、除粘、解冻、预热、胶焊接等。

六、风枪支架安装

新机器第一次使用时，必须安装热风枪手柄支架，如图1：

- 1、根据个人使用习惯，按图所示选择位置旋紧四颗螺丝。
- 2、根据您的选择，拆下机器左边或右边的两颗固定螺丝孔的螺丝，安装支架，旋紧拆下的两颗螺丝。
- 3、把手柄组件搁置在手柄架上，检查是否适宜。

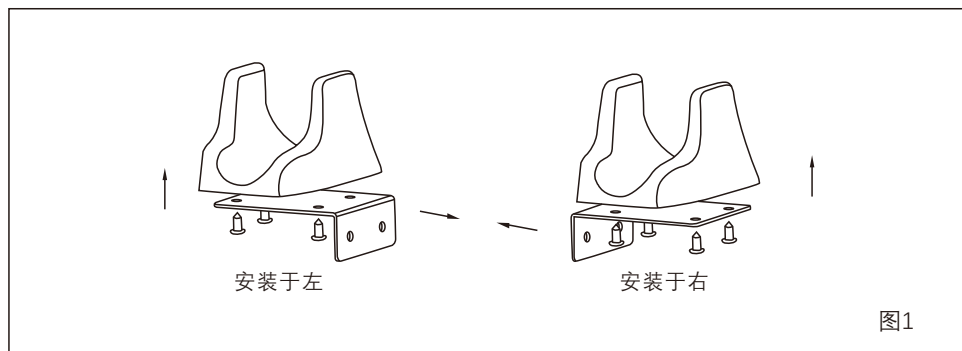
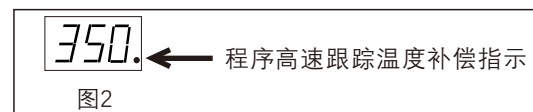


图1

七、操作说明

标准版（风枪部分）

- 1、将焊台摆好，连接好电源，装置所需的风阻（尽量使用大口径喷嘴），把风枪手柄放在手柄架上。
- 2、打开总电源开关，打开风枪加热开关，显示窗旁边的蓝色LED灯亮起，显示窗口显示“--”，此时风枪处于待机状态。
- 3、拿起风枪，屏幕显示风枪预设温度2秒，风枪开始从100℃开始高速加热，调节风量旋钮选择合适的风量，待风枪温度稳定后便可正常作业。
- 4、可按面板上的“UP（升温按键）”/“DOWN（降温按键）”调节所需温度。
- 5、恒温后，数码管右下角发光点高速闪动，程序以毫秒为单位高速跟踪补偿风枪实际温度，风枪进入温度高稳定高精度的恒温状态！（如下图2）
- 6、工作完毕，必须把手柄放置在手柄架上，拆焊台自动切断加热电源，工作指示灯熄灭，进入送冷风冷却发热体模式，当温度低于100℃，机器即将进入休眠待机状态。进入休眠时如烙铁是开机加热状态，则数温度显示屏会自动转换为烙铁显示状态，否则数码显示热风枪休眠符“---”。
- 7、热风枪进入休眠状态后，无论当前显示为哪路的工作状态，只要重新拿起热风枪手柄，数码显示都将转换热风枪显示状态，恢复之前设置工作。



温馨提示

在风枪和烙铁同时开启时，要查看相应的温度，可按SET显示状态切换按钮，切换所需显示。（REWORK蓝灯-风枪温度显示 SOLDER红灯-烙铁温度显示）

升级版（风枪部分）

升级版增加了风枪手动/自动切换功能，拨动面板上的手动/自动切换拨动开关，可切换相应工作状态。（AUTO为风枪自动工作状态，MAN.为风枪手动工作状态）

- 1、风枪自动工作状态：

A、自动模式操作方式与标准版相同。

B、此模式适合不太频繁焊接的情况，手柄放回手柄架，风枪即时开始降温至休眠状态，能有效节省电能，并降低机器（主机、发热芯等）的磨损，延长使用寿命。

2、风枪手动工作状态：

A、打开风枪开关后，显示屏显示风枪预设温度2秒，风枪开始从100℃开始高速加热，待温度升到预设温度并稳定后，便可正常作业。

B、可按面板上的“UP（升温按键）”/“DOWN（降温按键）”调节所需温度。

C、手动模式下，风枪手柄放回手柄架，风枪仍然保持当前工作温度。此模式非常适合频繁焊接的情况，可省去风枪回温的时间，提高焊接效率。

烙铁部分

- 1、将烙铁手柄连接好，将手柄正确放在手柄架上。
- 2、打开烙铁电源开关，显示窗旁边的红色LED亮起，显示窗显示烙铁预设温度2秒，烙铁开始从200℃开始高速加热，待温度升到预设温度并稳定后，便可正常作业。
- 3、可按面板上的“UP（升温按键）”、“DOWN（降温按键）”调节所需温度。

特别说明

因机器风枪和烙铁手柄采用的是高强度不锈钢钢管，在生产过程中机器必须在正常工作状态通过四次检验或校准，钢管因高温会出现轻微变黄。当新机拆开使用时发现钢管处有轻微的变黄，此为正常现象，请放心使用！

八、符号说明

- 1、显示“---”：热风枪休眠状态，表示此时热风枪进入了休眠状态。
- 2、显示“S-E”：表示当前数码显示的该路工作的传感器或其他部分出现故障，此时机器停止输出加热信号。
- 3、数码管末位小数点：-常亮为正在加热；-熄灭为停止加热；-闪烁为当前一路在恒温状态。
- 4、显示“---”一直闪烁，表示机器进入待机状态，提示关闭电源总开关，更加人性节能。

九、可换组件说明

风枪发热体的更换（图3）

- 1、更换发热体应在其冷却时进行更换。
- 2、如图，松开手柄上的两只固定螺丝。
- 3、旋出手柄组件1，再将手柄壳2取出。
- 4、轻轻移出风机，取出固定接线的3只螺丝。
- 5、将接线板反过来，从接线板上拆开发热体的连接线，注意其连接位置。
- 6、从钢管中取出发热体与包住发热体的云母纸，注意不要弄断钢管上的接地线。
- 7、用云母纸包好发热体，将其插入钢管中，注意发热体要安装到位。
- 8、按照原先的位置连接发热体的各连接线。
- 9、按拆开时的单反程序会装好手柄。

注意：

更换发热体时，小心不要损坏接地线；不要损坏风机的连接线；回装手柄时，手柄上的固定柱应在钢管上的固定孔内。

烙铁发热芯和烙铁头的更换（图4）

- 1、旋出螺母1，再将钢管2取出，这时就可以取下烙铁头进行更换了。
- 2、如需更换烙铁芯可以继续旋出螺纹头4，拔出烙铁芯和线路板7，要注意弹簧5。
- 3、将烙铁芯从线路板上焊下，更换新的发热芯，装好即可，注意烙铁芯引线的连接线顺序。

Safety Rules

Use the machine, the following basic measures should abide, avoid electric shock or cause injury or damage caused by fires.

1. **To ensure personal safety, after the machine completed work, please turn off the main power switch, and unplug the power cord if long time no use.**
2. To ensure personal safety, you must use the original approval or recommendation of the parts, otherwise it will lead to serious consequences.
3. Machine failure must be by professionals or the company designated personnel for repair.
4. This product is grounded three-wire plug, must be inserted within the three hole grounded outlet, do not change the plugs or use ungrounded three adapter made it bad grounded.
5. Hot air gun or soldering station is open, its temperature are likely to reach 400°C. Do not use it near flammable gas, objects. Tube and the heat emitted very hot, can burn the body, do not touch the hot pipe and direct injection to heat the human body.
6. Before hot air gun turned on, please ensure it is in safety environment, do not leave the jobs site.
7. When the hot air gun opening do not install nozzle, the heat pipe and the nozzle must be cooling. Then installed the other nozzle.
8. Please keep inlet and outlet air flow, don't have obstruction.
9. After used, remember that the cooling body, the handle should be released into the handle frame, then shut down the machine to sleep.
10. Do not use a soldering iron to weld outside the work; Do not iron percussion table to clear the residual flux, this could seriously damage the iron.
11. The machine welding will take smoke, please do proper ventilation.

Warning!!!

1. If the supply cord is damaged, it must be replaced by a special cord or assemble available from the manufacturer or its service agent.
2. **WARNING:** This tool must be placed on its stand when not in use.
3. Be careful when using the appliance in places where there are combustible materials; Do not apply to the same place for a long time.
4. Be aware that heat may be conducted to combustible materials that are out of sight; Do not leave the appliance unattended when it is switched on.
5. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

I. Product Features

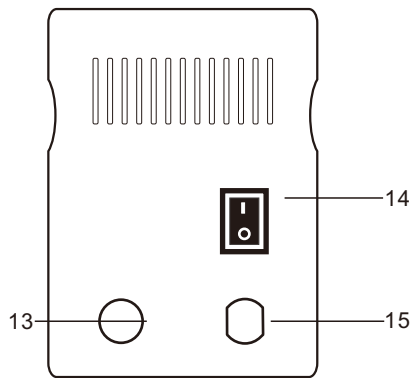
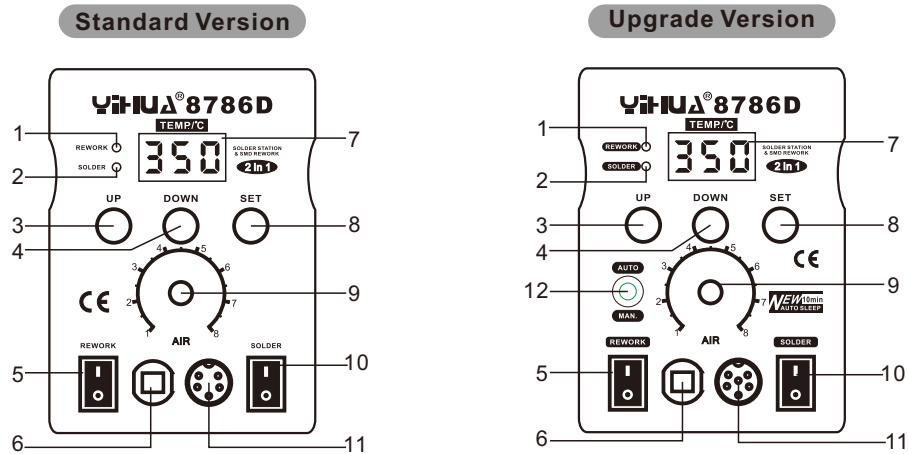
Standard Version

1. Closed loop sensor and microcomputer PID control make sure precise temperature. LCD digital display working status of air gun/iron, button switch the gun and iron display is easy and visual to operate.
2. Hot air gun with bigger power that rapid temperature rising. Airflow soft and wide, very suitable for lead-free soldering rework.
3. The heating element adopts low voltage power supply, can safely and effectively protect sensitive components and staff.
4. Perfect in gun and iron combination, the machine using ferroalloy cabinet, compact body occupied small area of table.
5. With self detection and fault alarm function.

Upgrade Version

1. Upgrade Version with all the advantages of Standard Version, and add the air gun manual/automatic switching function. Toggle switch is convenient and fast.
2. Automatic mode:
Put the gun on the holder that air gun will be down temperature into a standby state. This model is suitable for not often soldering situation, can effectively save energy and reduce the loss(host, heater etc.), good for prolong the service life.
3. Manual mode:
Put the gun on the holder, the gun remain current operating temperature. This mode is very suitable for often soldering situation, can save time of gun repeatedly back to the temperature, improve the efficiency of soldering.
4. Iron sleep function:
Can be automatic detection of the working state, the absence of people into sleep function. Factory preset the iron sleep time (10 minutes), soldering iron temperature automatic cooling to 200°C and then sleep. Can effectively prevent the oxidation of the soldering iron tips and prolong the service life, energy saving and environmental protection.

II. Schematic Diagram of the Host Panel



1. Hot air gun display status indicator
2. Soldering iron display status indicator
3. Up temperature adjustment button
4. Down temperature adjustment button
5. Gun switch
6. Air gun handle
7. Temperature display
8. Display status switch button
9. Airflow adjustment knob
10. Iron switch
11. Iron socket
12. Automatic / manual switch
13. Fuse
14. Power switch
15. Power line interface

III. Specifications

Machine	
Rated voltage	240V/230V/220V/110V ±10% 50Hz/60Hz
Whole device power	≤750W
Overall size	L148xW99xH140mm ±5mm
Weight	2.5kg
Work environment	0~40°C
Storage temperature	-20~80°C
Storage humidity	35%~45%
Hot air gun part	
Temperature range	100°C~480°C
Temperature stability	±2°C (Static state)
Airflow type	Brushless fan gentle wind
Airflow	120L/min (MAX)
Soldering iron part	
Work voltage	26V±10% 50Hz/60Hz
Temperature range	200°C~480°C
Temperature stability	±2°C (Static state)
Tip-to-ground impedance	< 2Ω
Tip-to-ground voltage	< 2mV

IV. Performance Comparison Table

Performance	Model	The standard version	Updated version
According to the form		The LED switch	The LED switch
Automatic blower gun manually		NO	YES
Soldering iron dormancy		NO	YES

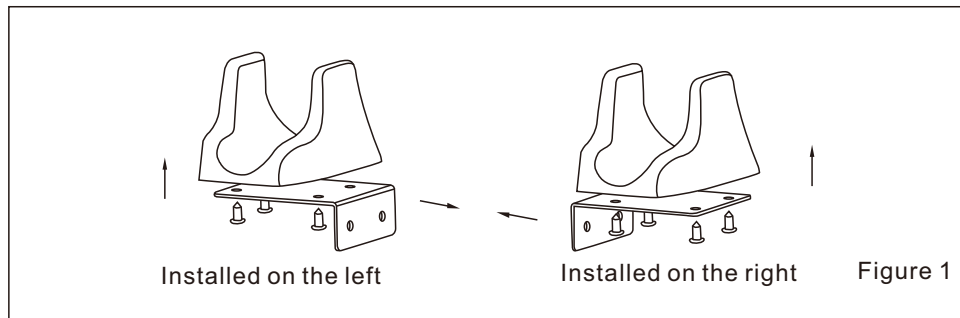
V. Application

1. Suitable for a variety of elements soldering and de-soldering such as: SOIC, CHIP, QFP, PLCC, BGA (especially suitable for mobile phone board and cable seat de-soldering).
2. For thermal shrinkage, drying, paint, adhesive removal, thawing, preheating, welding glued.

VI. Air gun Holder Installation

At first use the machine must install the gun holder, as Figure 1.

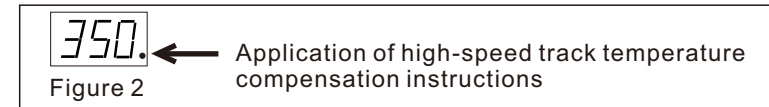
1. According to the personal habits, according to the figure shown in select position and tighten the four screws.
2. According to personal habits, as shown in select position tighten the four screws.
3. The handle assembly on the holder, check if appropriate



VII. Operating Instructions

Standard version (Gun parts)

1. Connect the power supply, air nozzle device required (as far as possible use large diameter nozzle), put the gun on the gun holder.
2. On power switch and gun switch, the beside of display blue LED bright, display “---”, and then the gun at standby status.
3. Take the gun, the display show the preset temperature 2sec, and then start heating up. Adjust the airflow for suitable airflow, when the gun temperature steady start to work.
4. Press “UP”/ “DOWN” adjust the temperature.
5. After Constant temperature, the lower right corner of point blink, program in milliseconds to tracking and compensation the temperature.(as figure 2)
6. After work, put the gun back to the gun holder, the machine will stop heat up and down to 100°C, and then into standby mode. If the soldering iron still in work, the display will be show the iron temperature. If the iron also not work will be show “---”
7. The gun into standby, if display show iron temperature, when you take the gun from the gun holder the display will be show the gun temperature, and start the setting temperature for work.



Warm Prompt:

When the gun and iron work together, if you want check each of them could be press set to look it.(Rework blue bright mean gun temperature, SOLDER red bright mean soldering iron temperature)

Upgrade version (Gun parts)

Upgrade version add to air gun manual /auto. conversion function ,toggle the panel manual /auto. switch over toggle switch, then switch over corresponding work state.(AUTO . is air gun automatic work state ,MAN. is air gun manual work state)

1. Air gun AUTO. work state:
 - A. AUTO. mode operation way same as the standard version .
 - B. This mode not suitable all-too-frequent soldering ,handle back into the handle frame, air gun immediate start down to a sleep state, can effectively save energy and reduce machine (host, heater, etc.) wear and prolong life.

2. Air gun manual work state:
 - A. Open air gun switch, the display shows the air gun preset temperature 2 seconds, air gun start from 100°C high-speed heating until the temperature rose to the preset temperature and stable, then able to work properly.
 - B. Print front panel “UP(temperature rise key)”/“DOWN(drop in temperature key)” adjust what you need temperature.
 - C. Manual Mode, air gun handle back into the air gun frame, air gun also keep the currently work temperature. This mode is very suitable for all-too-frequent soldering ,it can save air gun heating up time, raise soldering efficiency.

Soldering iron part

1. Connect the soldering iron handle, put the iron on the iron holder.
2. On iron power switch ,the display beside Red LED bright ,the display window shows iron preset temperature 2 seconds ,iron start from 200°C high-speed heating until the temperature rose to the preset temperature and stable, then able to work properly.
3. Print front panel “UP”(temperature rise key)”/“DOWN(drop in temperature key)” adjust what you need temperature.

Special Instructions:

Dear User! Our air gun and soldering iron handle adopt high strength stainless steel tube, the machine must be inspected or calibrated four times in normal working condition during the production process, the copper tube could be slight yellowing due to high temperature! When use the new machine first time, it is normal that the steel tube at a slight yellowing , please be assured!

VIII. Symbol Show

1. The displays show “---”, hot air gun sleep state, it shows air gun handle enter into sleep state.
2. The displays show “S-E”, it means the soldering iron and hot air gun of sensor is having a problem or other parts have faulty, then the machine stops heating output signal.
3. LED Digital last place the decimal point: - Always bright is the entire heating; - goes off to stop heating; - flashing at a constant temperature all the way to the current state.
4. Shows “---” always flashing, it means that the machine into standby, prompt you turn off the power switch, more human and saving energy.

IX. Interchangeable Component Description

Replacement of Hot Air rework heating element (Figure 3)

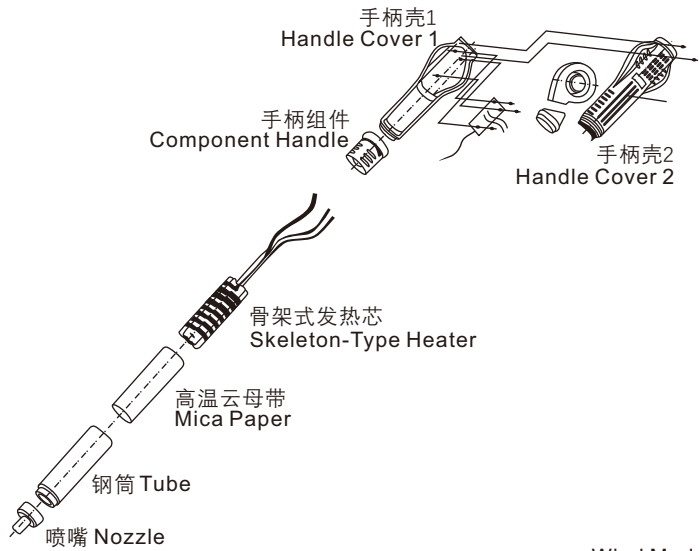
1. Ensure the hot air rework is fully cooled down before replacing the element
2. Figure, loosen the two screws on the handle.
3. Unscrew the handle assembly 1, and then remove the handle shell 2.
4. Gently takes out the fan, loosen the three screws to remove the fixed wiring board.
5. The wiring board in turn, heating elements connector apart from the wiring board, pay attention to its connection position.
6. Remove from the heat pipe heat body wrap body with mica paper, careful not broken ground wire of the steel.
7. Wraps well with the new heater mica, inserted into the tube, the attention heater to install in place.
8. According to the original location of the connection to connect heater.
9. When the reverse process by open bottles and handle back.

Attention:

When replacing the heating element, be careful not to damage the ground; do not damage the cable of fan; while back install handle, the handle is fixed on the column should be fixed on the pipe in the hole.

Replacement of the soldering iron's tip and soldering iron heating core's element (Figure 4)

1. Unscrews the nut NO.1, and then removes the steel tube NO.2, followed by removing the tips which is going to be replaced.
2. For the replacement of heating core's element can be performed by unscrewing the plastic cap NO.4, pulls out gently the heating core's element NO.6 along with the circuit board NO.7, please carefully remember the connection of spring NO.5.
3. The iron core from the circuit board welding, the replacement of the heating core, can be fitted well. Note that the order of the iron core wire connection.



风机型 图3
Wind Models Figure 3

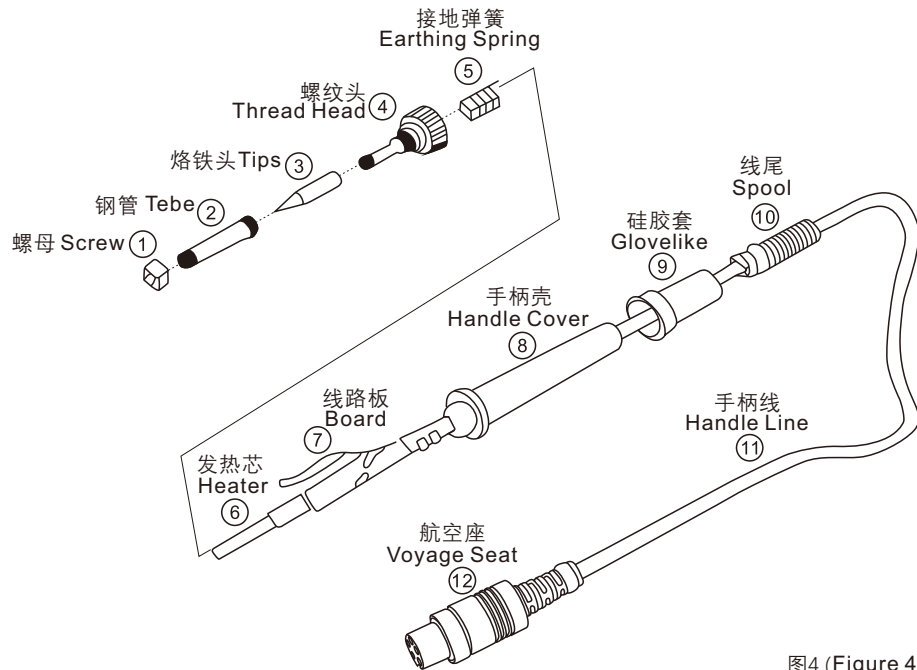
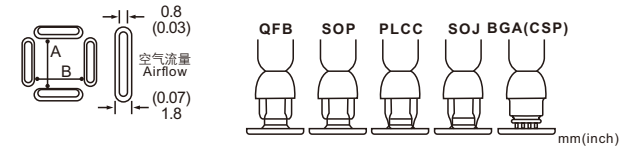


图4 (Figure 4)

通用部件
*喷嘴的规格尺寸
表示该IC的尺寸

General parts
*Nozzle specification
and size means the IC size



A1125 QFP 10x10 (0.39x0.39)	A1126 QFP 14x14 (0.55x0.55)	A1127 QFP 17.5x17.5 (0.68x0.68)	A1128 QFP 14x20 (0.55x0.78)	A1129 QFP 28x28 (1.1x1.1)
A1135 PLCC 17.5x17.5 (0.68x0.68) (44针needle)	A1136 PLCC 20x20 (0.78x0.78) (52针needle)	A1137 PLCC 25x25 (0.98x0.98) (68针needle)	A1138 PLCC 30x30 (1.18x1.18) (84针needle)	A1139 PLCC 12.5x7.3 (0.49x0.49) (18针needle)
A1140 PLCC 11.5x11.5 (0.45x0.45) (28针needle)	A1141 PLCC 11.5x14 (0.45x0.55) (28针needle)	A1182 BOFP 24x24 (0.94x0.94)	A1187 TSOL 18.5x8 (0.73x0.31)	A1257 SOP 11x21 (0.43x0.83)
A1258	A1259 SOP 13x28 (0.51x1.1)	A1260 SOP 8.6x18 (0.34x0.71)	A1261 OFP 20x20 (0.78x0.78)	A1262 OFP 12x12 (0.47x0.47)
A1263 QFP 28x40 (1.1x1.57)	A1264 QFP 40x40 (1.57x1.57)	A1265 QFP 32x32 (1.26x1.26)		
A1124 Single-tube 单管式 φ2.5 (1.1x1.57)	A1130 Single-tube 单管式 φ4.4 (0.17)	A1131 SOP 4.4x10 (0.17x0.39)	A1132 SOP 5.6x13 (0.22x0.51)	A1133 SOP 7.5x15 (0.3x0.59)
A1134 SOP 7.5x18 (0.3x0.7)	A1142 Curved single tube 弯型单管式 1.5x3 (0.06x0.12)	A1325 Single-tube 单管式 φ1.5x5.10 (0.06x0.02-0.39) 管脚距离可调 Pin distance adjustable		

附：电焊机使用烙铁头型号图

Attachment: Electric welding machine using welding head model figure

900M-T-0.8D 0°C		900M-T-LB -10°C/-18°F		900M-T-K 30°C/54°F	
900M-T-1.2D 0°C		900M-T-0.5C 0°C		900M-T-R 0°C	
900M-T-1.6D 0°C		900M-T-0.8C 0°C		900M-T-RT 0°C	
900M-T-2.4D 0°C		900M-T-1C 0°C		900M-T-SI 0°C	
900M-T-3.2D 0°C		900M-T-1.5CF 0°C		900M-T-I -10°C/-18°F	
900M-T-1.2LD -10°C/-18°F		900M-T-2C 0°C		900M-T-H -20°C/-36°F	
900M-T-SB 0°C		900M-T-3C 0°C		900M-T-1.8H -10°C/-18°F	
900M-T-B 0°C		900M-T-4C 0°C		900M-T-S4 0°C	

900M系列外径φ6.5mm 900M Series Tip Out Diam φ6.5mm