

AiXun·艾讯

让全球电子爱上智能
Make global electronics fall in love with intelligence

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AiXun

T425

工业焊台

Industrial Soldering Station

使用说明书

Industrial Soldering Station User Manual



使用之前请先仔细阅读说明书

Please read the user manual carefully before use

1 产品特点

➤ 温度与功率:

宽温域范围: 90-550°C, 适应多种焊接需求

高效功率: 250W大功率设计, 极速升温

应用场景: 高效胜任大焊点作业

➤ 智能控制功能:

恒温智焊: 动态追踪, 精准控温

抗干扰能力: 无惧波动干扰

➤ 硬件优势:

稳定输出: 低损耗环形变压器, 抗干扰更耐用

精准校准: 搭载动态温差补偿算法, 实时校准, 精度无妥协

显示清晰: 3.5寸高清IPS屏, 温度曲线可视化追踪

➤ 高级功能:

智能锁机:

锁机模式下, 三大快捷通道参数锁定, 杜绝操作干扰

可切换曲线界面与数字界面

➤ 智慧互联:

平台功能无限升级

多语言界面: 中/英/俄文自由切换

双温标显示: °C/°F 智能转换

➤ 手柄兼容:

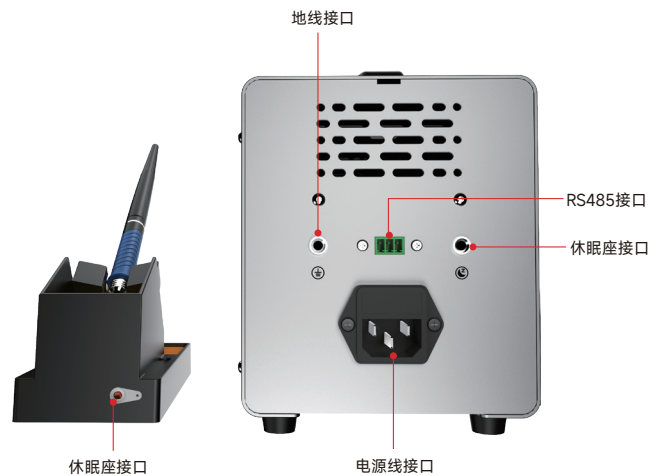
T245手柄、T245手柄兼容C245/C470焊笔芯

2 结构介绍

|| 产品正面



|| 产品背面



3 产品参数

产品名称: 工业焊台	型号: T425
峰值功率: 400W	支持手柄型号: T245
额定功率: 250W	温度范围: 90-550°C
输入电压: 220-240VAC	输入保险丝: 2A
裸机重量: 3.48KG	整机重量: 4.8KG
主机尺寸: 129.3*234.7*156.7mm	

产品配件



休眠座

T245焊枪*1



接地线

休眠线



电源线



C470焊笔芯*3



485接线端子

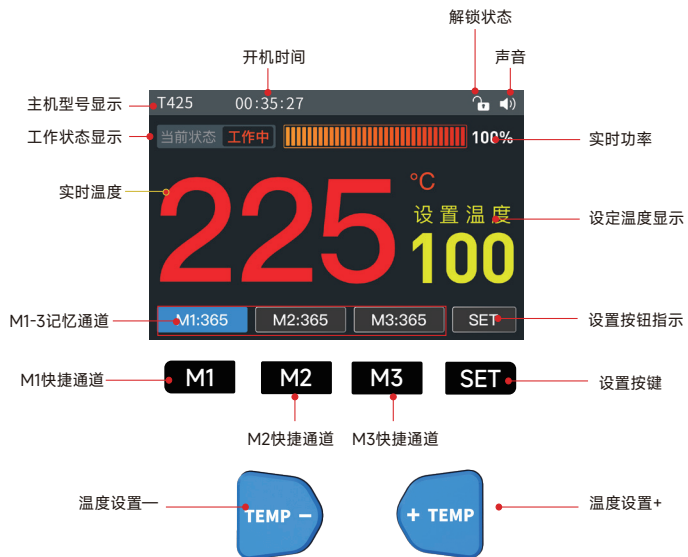


合格证



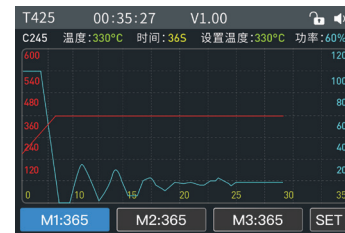
纸质说明书

4 按键及主界面介绍

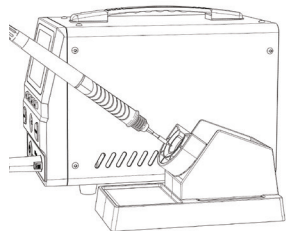


曲线界面

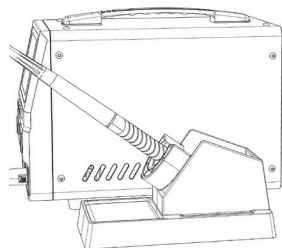
- 在主界面按SET按键可切换至曲线个界面
- 再次按SET键可返回至数字界面



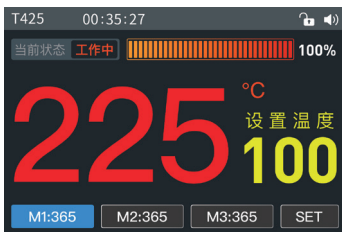
5 产品基础操作



➤ 当工具从手柄休眠座取下时，烙铁头温度会加热到设定温度。



➤ 当焊笔放置在手柄休眠座上时，温度会下降到预置休眠温度。



➤ *单击“M1-M3”键切换快捷通道
切换至快捷通道设定的温度
按“TEMP+、TEMP-”键更改温度
温度范围：(90-550°C)
*长按M1-3，将当前设置的温度
保存到当前的通道

M1 M2 M3



温馨提示：
休眠功能可在【系统设置】【休眠设置】选项中
设置休眠延迟、休眠温度、休眠功能开关

SET

6 系统升级

升级功能操作

● 通过Type-C数据线连接电脑升级

- 1.设备上预留Type-C数据线接口，可以连接电脑
- 2.打开【艾讯助手】自动识别已连接设备，选择最新软件版本即可升级，等待升级完成即可



AIXUN助手下载：www.aixun.com

● U盘升级

- 1.将升级U盘插入Type-C口，断电
- 2.按住SET键不放，通电即可升级

*U盘类型：FAT32



7 主机系统设置

在系统主界面下，长按【SET】按键，即可进行入系统设置

可对语言、声音、密码、声音、休眠...进行设置

【语言设置】



【声音设置】



【温度设置】



【休眠设置】



【背光调节】



【恢复出厂】



密码锁功能

● 管理密码界面

1. 在主界面下，长按SET键进入系统设置
2. 移动至密码设置，单按SET键进入
锁机密码设置默认密码为000
3. 修改密码时，M1/M2移动密码选项框，+/-修改数字
设置密码数字确认后
4. 单按SET键锁机，并返回主界面



● 设备解锁:

1. 设备锁住状态下，在主界面长按SET键打开密码解锁界面
2. M1/M2移动密码选项框，+/-修改数字，SET键确认
3. 输入正确密码 单按SET确认，解锁后返回主界面



温馨提示：如果忘记密码，请联系艾讯客服进行解锁操作。

8 烙铁头更换



温馨提醒：更换烙铁头前建议先切断电源，待烙铁头冷却后再操作更换，避免烫伤



T245焊笔芯拆装

安装：

将烙铁头直接插入手柄中，焊台自动识别即可完成安装

拆卸：

直接从手柄中拔出，即可完成拆卸

9 焊台注意事项

! 焊台注意事项

为避免损坏焊台及作业环境的安全，应遵守以下事项：

- ◆ 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。如需加长电线，请使用接地的三线电源线。
- ◆ 切勿擅自改动焊台。
- ◆ 更换部件时，应采用原厂原件。
- ◆ 切勿弄湿焊台，手湿时禁止使用焊台，亦不能拉扯电源线。
- ◆ 焊接时会冒烟，工作环境应有良好的通风设施。
- ◆ 使用焊台时，不可做任何可能伤害产品的行为。
- ◆ 若长时间不使用本产品，请妥善放置干燥环境下。

! 烙铁头注意事项

当电源接通时，烙铁头温度处于高温状态，鉴于滥用可能导致灼伤或火患，请严格遵守以下事项：

- ◆ 请避免本焊台的滥用，应按照操作说明使用本产品。
- ◆ 更换烙铁头请勿直接用手接触，防止烫伤。
- ◆ 切勿在易燃物体附近使用烙铁头。
- ◆ 通知其他人员，烙铁头极易灼伤，可能引起危险事故。休息时或完工后应关闭电源。
- ◆ 切勿将烙铁敲击工作台以清除焊剂残余，此举可能严重震损烙铁。
- ◆ 切勿使用烙铁头进行焊接以外的工作。
- ◆ 请勿放在儿童够着的地方，防止被烫伤。

! 本产品有防静电措施，请务必接地使用。

10 烙铁头的使用和维护

⚠ 注意：切勿用锉刀剔除焊接头上的氧化物

- 1、温度稳定后，用清洁海绵清理焊接头，并检查烙铁状态。
- 2、如果烙铁头的镀锡部分含有黑色氧化物，可镀上新锡层，再用清洁海绵抹净烙铁头，如此重复清理，直到彻底除去氧化物为止，然后再镀上新锡层。
- 3、如果烙铁头变形或衍生出锈铁，须替换新的烙铁头。

II 烙铁头的使用

◆ 烙铁头温度	温度过高会减弱烙铁头的功能，因此应选择尽可能低的温度。此烙铁头的温度恢复力优良，较低的温度也可充分的焊接，可保护对于温度敏感的元件。
◆ 清理	应定期使用清洁海绵清理烙铁头。焊接后，烙铁头的残余焊剂所衍生的氧化物和碳化物会损害烙铁头，造成焊接差误，或使烙铁头导热功能减退。 长时间连续使用烙铁时，应每周一次拆开烙铁头清除氧化物，防止烙铁头受损而减低温度。
◆ 当不使用时	不使用烙铁时，不可让烙铁头长时间处于在高温状态，会使烙铁头上的焊剂转化为氧化物，致使烙铁头导热功能大为减退。
◆ 使用后	使用后，应抹净烙铁头，镀上新锡层，以防止烙铁头引起氧化作用。

II “不上锡”的烙铁头由以下的原因引起：

- 1、在烙铁闲置不用时没有用新的焊锡覆盖烙铁头。
- 2、烙铁头处于高温状态。
- 3、在焊接工作期间没有充分熔化。
- 4、在干燥或不干净的海绵或布上擦洗烙铁头。[应该使用清洁、湿润的工业级不含硫的海绵]
- 5、焊料或铁镀层不纯，或者焊接表面不干净。

II 延长烙铁头寿命：

- ◆ 每次使用后浸润新鲜焊锡，这样可以阻止烙铁头的氧化而延长使用寿命。
- ◆ 在能够工作的情况下尽量使用较低的温度，低温可以减少烙铁头的氧化，也容易焊接元器件。
- ◆ 只有在必要时才使用细的烙铁头，细小烙铁头的镀层没有粗钝的烙铁头镀层耐用。
- ◆ 不使用烙铁头作为探测工具，烙铁头弯曲会使镀层破裂，缩短使用寿命。
- ◆ 用有较少活性的松香焊剂，因为含量高的活性松香会加速烙铁头镀层的腐蚀。
- ◆ 不使用或停止焊接作业时，请将烙铁手柄放入休眠架或及时关闭电源。
- ◆ 不对烙铁头施加重压，因为较大的压力不等于传热快，为提供热传输，必须使焊锡熔化，使烙铁头与焊点之间形成一个热传递的焊锡桥联。

⚠ 注意：适当的日常保养会有效地提升烙铁头使用寿命

11 产品售后

● 保修条例：

- 本产品自购买之日起（以购买凭证为准），整机保修一年。
- 保修服务只限于一般正常使用下有效。一切人为损坏，例如使用不当配件，不依照说明书使用，非经本公司维修，错误使用或疏忽而造成的损坏，保修服务将立即失效。
- 不依照上述保修条例办理的用户，本公司对上述条例有最终解释权。

1 Product Features

➤ Temperature&Power:

Wide temperature range: 90-550°C , suitable for various soldering needs
Efficient power: 250W high power design, ensures rapid heating up
Application scenarios: Competent for large solder joints effectively

➤ Smart control:

Constant temperature and smart soldering: Dynamic tracking and precise temperature control
Anti-interference ability: Fearless of fluctuations and interference

➤ Hardware advantages:

Stable output: Low loss ring transformer, more durable and resistant to interference

Accurate calibration: Equipped with dynamic temperature difference

compensation algorithm, real-time and accurate calibration.

Clear display: 3.5-inch HD IPS screen, tracking temperature changes via the clear curve interface

➤ Advanced functions:

Smart lock

In lock mode, the parameters of three shortcut channels are locked to prevent operation interference

Available to switch between curve and digital interfaces

➤ Smart interconnection:

Unlimited functions upgrade by connecting to platform

Multi-language system: Free switching between Chinese/English/Russian

Dual temperature unit display: Intelligent conversion between ° C/° F

➤ Compatible handles:

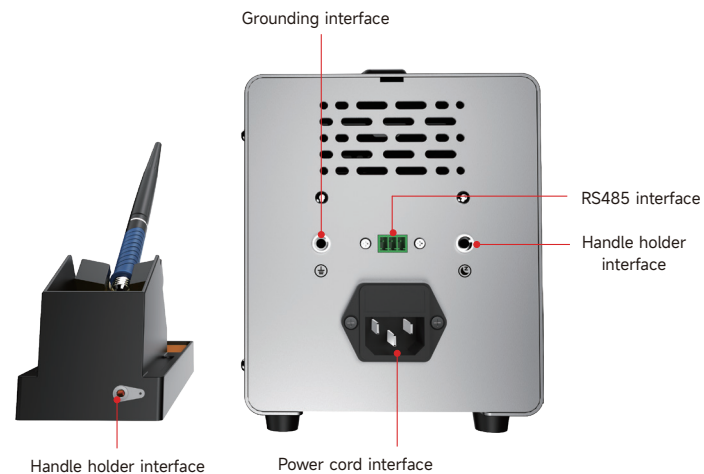
Support T245 handle (compatible with C245/C470 soldering tips)

2 Structure Introduction

|| Front side



|| Back side



3 Product Parameters

Product name: Industrial Soldering Station	Model: T245
Peak power: 400W	Compatible handle: T245
Rated power: 250W	Temp range: 90-550°C
Input voltage: 220-240VAC	Input fuse: 2A
Net weight: 3.48KG	Total weight: 4.8KG
Host dimensions: 129.3*234.7*156.7mm	

Product accessories



Standby holder

T245 handle *1



Grounding wire

Standby cable



Power cord



C470 soldering tips *3



485 terminal block

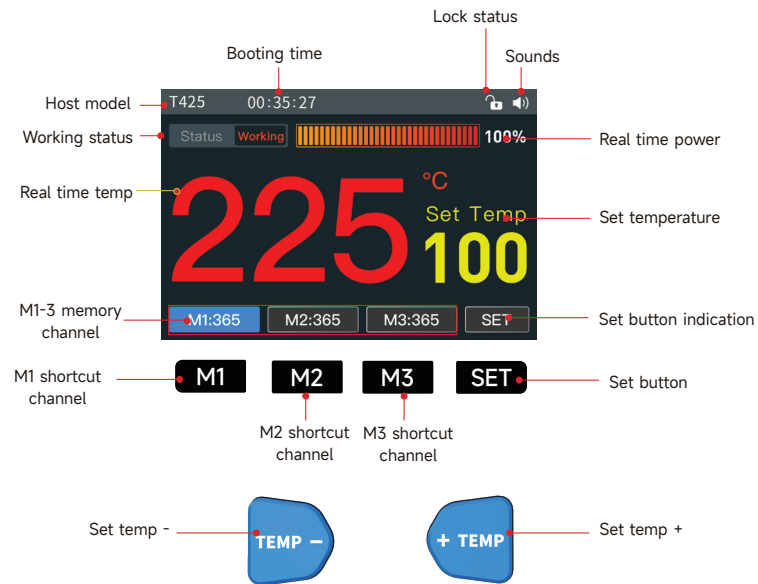


Certificate



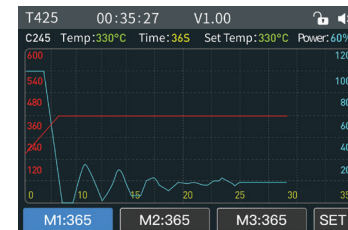
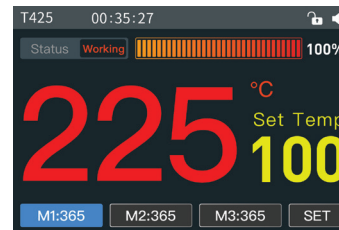
User manual

4 Introduction on Buttons & Main Interface

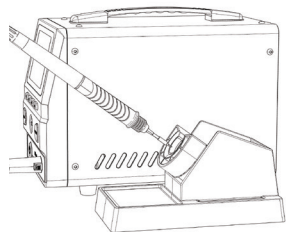


Curve interface

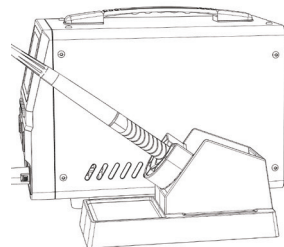
- Press "SET" button on the main interface to switch to Curve Interface
- Press "SET" button again to go back to the digital interface



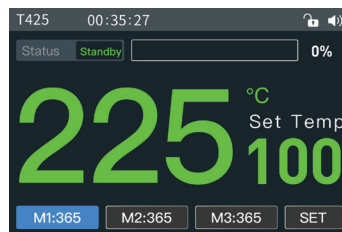
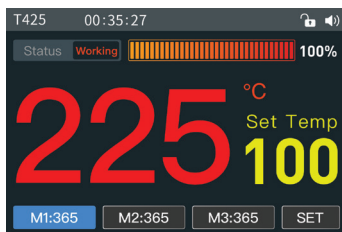
5 Basic Operation



➤ When the tool is removed from the standby holder, the tip will heat up to the set temperature.



➤ When placing the handle in the standby holder, it will decrease to the preset standby temperature.



➤ Single press "M1-M3" button to switch shortcut channels
Switch to the set temperature of the shortcut channel
Press "TEMP + / TEMP -" buttons to adjust temperature
Temp range: (90-550°C)
**Long press M1-3 to save the current set temperature to the current shortcut channel*

M1 M2 M3

SET

Warm reminder:
Long press the SET button on the main interface to enter the [System Settings]. Set the standby delay, standby temperature, and standby ON/OFF in the [Standby] option.

6 System Upgrade

How to upgrade

● **Connect to the computer via Type-C data cable to upgrade**

1. A Type-C data cable interface is reserved on the device which can be connected to a computer.
2. Open [AiXun Assistant], it will identify the connected device automatically, select the latest software version and wait for upgrading.



AIXUN Assistant Download: www.aixun.com

● **Upgrade through USB drive**

1. Insert the USB drive into the Type-C interface and turn off the power
2. Press and hold the SET button, turn on the power and it will upgrade automatically

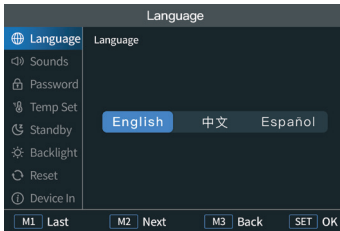
***USB drive model: FAT32**



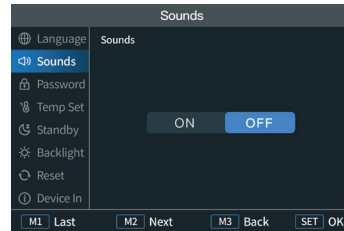
7 Host System Settings

In the main interface, long press the [SET] button to enter the system settings for language, sounds, password, standby, etc.

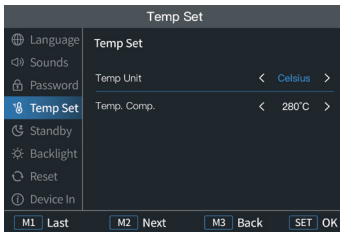
【Language】



【Sounds】



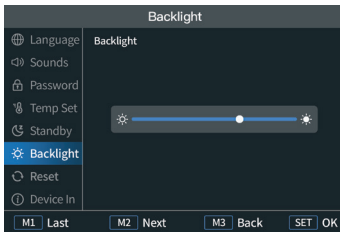
【Temperature】



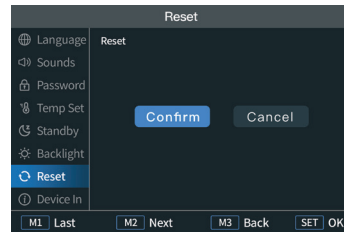
【Standby】



【Backlight】



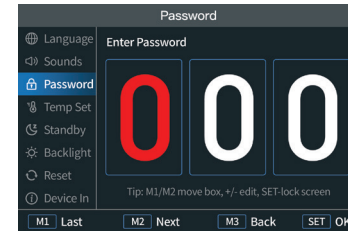
【Reset】



|| Password lock function

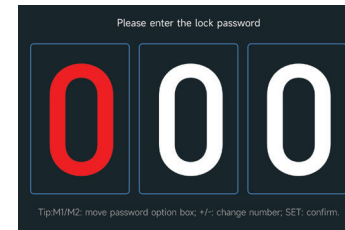
● Password management interface

1. In the main interface, long press the "SET" button to enter the system settings interface
2. Move to password settings and press the SET button to enter, the default password for device locking is 000
3. When changing the password, move the password option box with M1/M2, change the number with +/- ,after setting and confirming the password
4. Press the SET button to lock the device and return to the main interface



● Device unlocking:

1. When the device is locked, long press the SET button on the main interface to open the password unlock interface
2. M1/M2: move password option box; +/-: change number; SET: confirm.
3. Enter the correct password and press SET to confirm. After unlocking, return to the main interface.



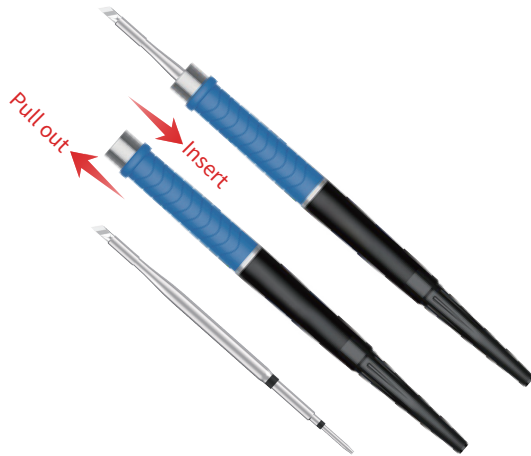
Warm reminder: If you forget your password, please contact AiXun customer service for unlocking.

8 Soldering Tip Replacement



Warm reminder:

Power off the station and wait until the soldering tip cooling down before replacing it to prevent burns.



Installation & Disassembly of T245 handle

Installation:

Insert the soldering tip into the handle directly, and the soldering station will recognize it automatically.

Disassembly:

Pull the soldering tip out of the handle directly.

9 Precautions



Precautions for soldering station

To avoid damage to the soldering station and consider safety of the working environment, the following matters shall be observed:

- ◆ This product uses a three wire grounding plug, which must be inserted into a three hole grounding socket. Do not change the plug or use an ungrounded three head adapter to make the grounding poor. To lengthen the wire, use a grounded three wire power cord.
- ◆ Please do not make any change to the soldering station without authorization.
- ◆ When replacing parts, the original factory parts shall be used.
- ◆ Please do not wet the station. Do not use the station nor pull the power cord when hands are wet.
- ◆ There is smoke during soldering, good ventilation facilities should be available in the working environment.
- ◆ Please do not do anything that may harm the product when using the station.
- ◆ Please place the station in a dry environment when it's not in use for a long time.



Precaution for soldering tips

When turning on the switch, the soldering iron tip is in a high temperature state. In view of the possibility of burns or fire caused by abuse, please strictly abide by the following items:

- ◆ Please avoid the abuse of this station and use this product according to the operating instructions.
- ◆ When replacing the soldering iron tip, do not touch it directly by hand to prevent scalding.
- ◆ Do not use the iron tip near flammable objects.
- ◆ Inform other personnel that the iron tip is very easy to burn and may cause dangerous accidents. The power shall be turned off when not using.
- ◆ Do not knock the soldering iron on the workbench to remove the residual flux, which may seriously damage the soldering iron.
- ◆ Do not use the soldering iron tip for work other than soldering.
- ◆ Keep out of the reach of children to prevent burns.



This product has anti-static measures.
Please be sure to use it grounded.

10 Use And Maintenance Of Soldering Tip

⚠ Note: do not use a file to remove the oxide on the iron tip

1. After the temperature is stable, clean the iron tip with a cleaning sponge and check the state of the soldering iron.
2. If there is black oxide, plate with a new tin layer, and then wipe with a cleaning sponge. Cleaning like that repeatedly until the oxide is completely removed, and then plate with a new tin layer.
3. If the soldering iron tip is deformed or rusted, replace with a new soldering iron tip.

1 Use of soldering iron tip

◆ Soldering iron tip temperature	Too high temperature will weaken the function of tip, choose the temperature as low as possible. This tip has an excellent temperature resilience, and support soldering at the lower temperature, which can protect components that are sensitive to temperature.
◆ Cleaning	Clean the soldering iron tip regularly with a cleaning sponge. After soldering, the oxides and carbides derived from the residual flux will damage the tip, cause soldering errors or reduce the thermal conductivity of the tip. If using the tip continuously for a long time, please disassemble the tip once a week to remove the oxide to prevent it from being damaged and reduce the temperature.
◆ When not in use	When not in use, do not keep the tip at high temperature for a long time, or the flux on the tip will be converted into oxide and greatly reduce the heat conduction ability.
◆ After use	After use, the tip shall be wiped clean and plated with a new tin layer to prevent oxidation.

1 “Tin planting failure” may be caused by:

1. When the soldering iron is idle, it is not covered with new tin layer.
2. The soldering iron tip is at high temperature.
3. Insufficient melting during soldering.
4. Clean the tip on a dry or unclean sponge or cloth. [The clean and moist industrial grade sulfur-free sponge should be used]
5. The solder or iron coating is impure, or the soldering surface is not clean.

1 How to prolong the service life of soldering iron tip?

- ◆ Soak with fresh solder after each use to prevent the oxidation and prolong its service life.
- ◆ Apply the temperature as low as possible to fulfill the work, low temperature can not only reduce the oxidation of the iron tip, but also easy to solder.
- ◆ Use a thin iron tip only in necessary, the coating of a thin iron tip is not as durable as that of a thick iron tip.
- ◆ Do not use the soldering tip as a detection tool, bending of the soldering tip will lead to the rupture of the coating and shorten the service life.
- ◆ Use less active rosin flux, because the high content of active rosin will accelerate the corrosion of iron tip coating.
- ◆ When not in use or stop soldering, put the handle into the handle holder or turn off the power in time.
- ◆ Do not exert heavy pressure on the soldering tip, higher pressure does not mean fast heat transfer. In order to provide heat transfer, the solder must be melted to form a heat transfer solder bridge between the soldering tip and the solder joint.

⚠ Note: Proper daily maintenance will effectively improve the service life of the soldering iron tip

11 After Sales

● Warranty regulations

- This product is guaranteed for one year from the date of purchase (subject to the purchase certificate).
- The warranty service is only valid under normal use. Any man-made damage, such as the use of inappropriate accessories, failure to use in accordance with the instructions, damage caused by non official maintenance, wrong use or negligence, the warranty service will be invalid immediately.
- AiXun company has the final right to interpret the above regulations.