ATTEN Soldering Iron User Manual

ST-2065D/ST-2080/ST-2080D/ST-2150/ST-2150D

The soldering iron needs to be tested before it leaves the factory, so the soldering tip may cover a small amount of tin, and the casing will be slightly yellowing, which is a normal phenomenon.

1.Copyright information

The design of this product(including internal software) and its accessories is under the protection of relevant state laws.Any violation of the relevant rights of our company will be subject to legal sanctions.Users shall consciously abide by the relevant state laws when using this products.

2.Disclaimer

We will take no responsibility for any personal injury or property damage caused by reasons other than the product quality problem,which may include force majeure (natural disasters,etc) or personal behavior during the operation of this product.This manual is organized ,compiled and released by SHENZHEN ATTEN TECHNOLOGY CO., LTD. according to the latest product features. We will not responsible for further notice of the subsequent improvement of the product and this manual.

3.Safety precautions

⚠ Warning	Misuse of this product may lead to serious injury or death to the user.
⚠ Caution	Misuse of this product may lead to serious injury to the user or material damage to the object involved.

To avoid electric shock or injury to the human body or fire hazard,the follwing basic rules must be observed when using the equipment.In order to ensure personal safety,only parts and accessories approved or recommended by the original factory canbe used, otherwise serious consequences may occur!

⚠ WARNING

When using this product, the soldering pencil/soldering tip, with the temperature up to 80-480℃, may cause burns to the user or cause a fire due to improper application.
So Users shall strictly observe the following rules:

- Keep this product away from flammable materials.
- Keep the product out of children's reach.
- Do not use this product if you are inexperienced or have no sufficient necessary knowledge without the guidance of related personnel.
- Do not use this product under wet environment or with wet hands to avoid electric shock.
- Do not modify this product and its accessories without authorization.
- Please turn off the power when replacing parts and iron tips, and not resume the use until the equipment is completely cooled down.
- Please use the accessories from the original factory when replacing the product parts.
- Make sure to turn off the power switch when the equipment is temporarily stopped or out of use.

3.Essential knowledge for users

Users are required to have basic knowledge of common sense and electrical operations before using the product. Minors shall use the product under the guidance of a professional or guardian.

4.Product overview

This product is a portable, temperature-adjustable, high-temperature control soldering iron. The ceramic heating core uses a three-core grounded power cable to effectively ensure the safety of the welding operation.

5.Features

- **Automatically sleep after 10 minutes and shut down after 20 minutes when the product stop operating**
- Products use LCD display and LED display design
- Build in PID system ,adjust temperature by button,operate easily .
- The handle structure is ergonomically designed for comfortable grip.
- Display the temperature control status with a bright blue LED.
- The heating wire and sensor are made of PTC material, which is quick in temperature rise and precise in temperature control.
- Auto-standby, auto-shut down is available.
- Using 3 cored power cable.

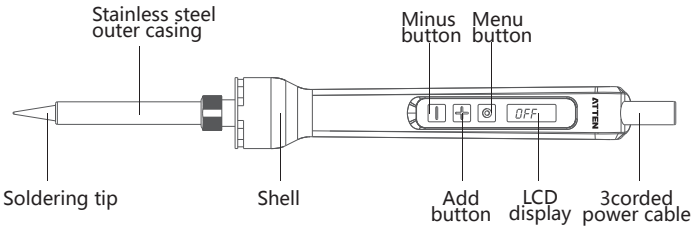
6.Specification

Item No.	ST-2080	ST-2150	ST-2080D	ST-2150D	ST-2065D
Voltage	110/240VAC	110/240VAC	110/240VAC	110/240VAC	110/240VAC
Power	80W	150W	80W	150W	65W
Temperature range	5set adjustment	5set adjustment	80°C~480°C	80°C~480°C	80°C~480°C
Temperature stability	± 2℃	± 2℃	± 2℃	± 2℃	± 2℃
Heater	Four-core heater	Four-core heater	Four-core heater	Four-core heater	Four-core heater
Heating indication	Blue LED	Blue LED	Blue LED	Blue LED	Blue LED
Temperature unit	°C	°C	°C/°F	°C/°F	°C/°F
Display method	LED	LED	LCD	LCD	LCD

(ST-2065D/ST-2080D/ST-2150D)

Product feature

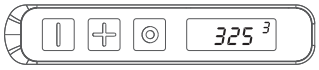
*Remark:ST-2065D/ST-2080D/ST-2150D with LCD display.



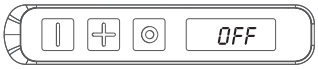
Operational Guide

A .Switch function

Charge on the product,short press power button,When booting, the screen display the temperature, as shown in picture 1; when shutdown,the screen display OFF,as shown in picture 2



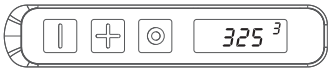
Picture 1



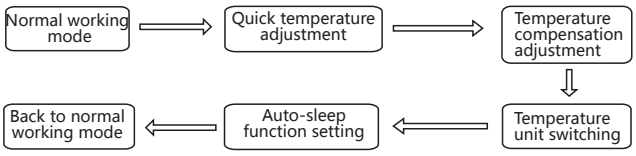
Picture 2

B.9 groups shortcut temperature adjustment

In the working state,press " + " " - " switch temperature group(the default temperature value of 9 groups is: 250℃/482℉; 300℃/572℉;325℃/617℉;350℃/662℉;375℃/707℉;400℃/752℉;425℃/797℉;450℃/842℉;480℃/896℉。)



C.Setting mode

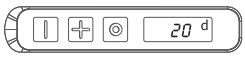


(1)Quick temperature adjustment

While in the working state, hold down the power button to enter the quick temperature adjustment, press the " + " " - " button to adjust. Hold down the button to adjust the range at larger intervals：80℃-480℃.

(2)Temperature compensation adjustment

In the fast temperature adjustment state, press the power button to enter the temperature compensation setting, press " + " " - " to adjust. Hold the button to adjust the range at larger intervals : ± 50 ℃ / ± 90 ℉.



(3)Temperature unit switching

In the temperature compensation adjustment state, short press the power button to enter the unit setting, press " + " " - " to switch C and F

(4)Auto-sleep function ON/OFF

In the temperature unit switching state,short press the power button to enter the sleep setting ,press " + " " - " adjust, 1 means ON,0 means OFF

Short press the power button to enter the normal state.

D.Heating

When the product is heated. The power light flashes, the brightness changes according to the power level, and the selected gear light is long.

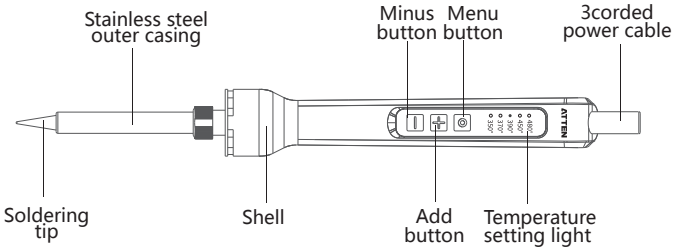
E.Warning

When " H-E " displayed on the screen,there is no temperature , which indicates that the heating element fails.
When " S-E " displayed on the screen,there is a fault in sensor, which signifies that there is something wrong in sensor or the related circuit of the sensor.

(ST-2080/ST-2150)

Product feature

*Remark:ST-2080 /ST-2150 with LED display.



Operational Guide

A.Booting

Short press power button to boot,default 390℃ lights long after booting.

B.Temperature switching

In the working state,short press " + " " - " to switch temperature.

C.Shutdown

In the working state,short press power button,the light of power button flashing after shutdown.

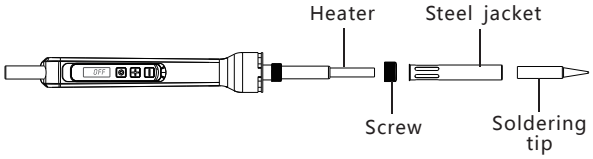
D.Heating

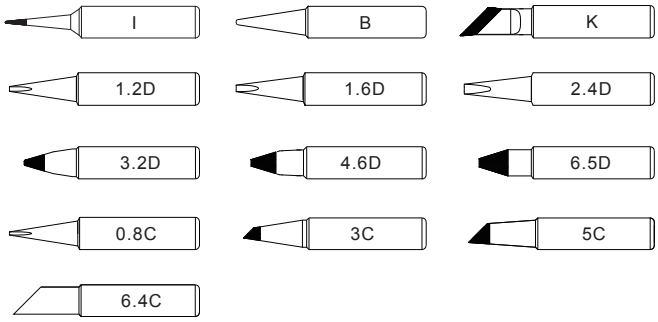
When the product is heated. The power light flashes, the brightness changes according to the power level, and the selected gear light is long.

E.Warning

When 5 lighting are all flashing ,which indicates that the heating element fails.
When 5 lighting are all lighting , there is a fault in sensor, which signifies that there is something wrong in sensor or the related circuit of the sensor.

Soldering tips





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