

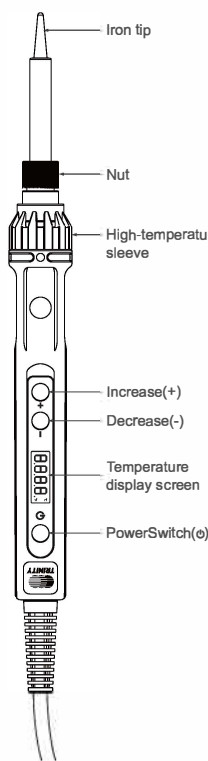


Trinity Digital Soldering Iron

Thanks to use **TRINITY** soldering products, please read the instructions carefully before operating soldering iron, in order to avoid operation errors.

Remark:

The "warning" and "note" in the specification are defined as follows:
Warning: wrong operation shall result in death or serious injury.
Note: wrong operation shall result in damage to the users or the objects.



Packing list

- LCD intelligent electric soldering iron 1
- Instruction manual 1

Features

- Plug in&out type four-core ceramic heating Cartridge, the temperature is more accurate, heat faster, and the replacement is quick and convenient.
- The high temperature sleeve is made of special materials and heat-insulating technology.the handler is not hot and comfortable to hold.
- The handle button adopts the embedded design button, which is firm and does not fall off, feels comfortable and operates freely.
- Adopt the latest technology switch (be menu button as well) circuit design, over high and over low voltage self-protection function.
- You can set the sleep time period freely (5 minutes~30 minutes). The sleep temperature drops to 80°C. If you do not use this soldering iron for 120 minutes, it will automatically shut down.
- Small volume. Three-key design. Strong function.
- It is very rapid to back to the temperature, 8 second heating.
- Quality heating element. Ultra strong platinum temperature sensitivity.
- Two kinds of temperature show model (Degrees°C, Fahrenheit°F).
- Complement value through micro computer temperature. Error margin less than ± 5°C.
- High-temperature resistant, high insulation, soft-touch power cable.
- LCD display. Content is clear at a glance.
- The handle is made of special high temperature resistant material, ESD antistatic treatment.
- Professional (LCD backlight, function password lock, sleep function, with C8L series soldering iron head).

Increase(+): increase temperature
Decrease(-): reduce the temperature
PowerSwitch(e): Turns the soldering iron on/off (function button)

Parameters

Temperature range: 80°C~500°C
Power supply: 110V/60Hz
Power: 110W
Welding nozzle earth impedance: <2Ω
Welding nozzle earth voltage: <2mv
Size: 252mm (Length) * 23.6mm (max dia) * 8mm (min dia)

Specifications

Type	Energy Efficiency professional (sleep function, password function, LCD back light display)
Model	Tep0110w
Power	110W
Soldering Nozzle	C8L Series tip
Exothermic Material Core	A43111P
Button color	Yellow
Power supply	AC110V/60HZ

※ This product is protected against electrostatic discharge.
※ Specifications and design are subject to change without notice.

Warning

Because wrong operation will cause burns and fire. Please strictly comply with the following matters:

1. Please avoid wrong operation the soldering iron, should operate according to the working instruction.
2. Do not touch the metal parts of the soldering iron.
3. Do not use the soldering iron nearby the combustible.
4. Notify other people around you that the welding tip is prone to burns and may cause a dangerous accident. The power cord should be turned off when it break or after completion.
5. Before replace soldering nozzle, please confirm the power is shut off and the nozzle is cool.
6. It is strictly prohibited to use the product when any damage, especially the power cord damages.
7. This product uses three pin ground-plug which must insert the three hole socket. Prohibit changing the plug or using not ground-plug adapter which results bad ground connection. If want to extend wire, please use the three pin ground- power cord.
8. Do not use soldering nozzle out of the soldering work.



9. Please don't knock the soldering iron on the table to clear the residual tin slag on iron. Because doing shall result in serious damage to the soldering iron.
10. Please don't replace the solder iron without authorization. It is suggested that replace parts with the original accessories.
11. Don't get the solder iron wet. Please do not use or take apart the solder iron and pull the cord when your hand is damp.
12. It is suggested to work in good ventilation environment, or providing small fans by yourselves owing to the soldering iron will produce smoke when soldering.
13. Prohibit making any damage to body or objects when use the soldering iron.
14. Children don't know the danger of solder iron, so this product should be placed where children are not easy contact or used and storage where providing admitted supervision.

Operational guidelines

I. First, the electric iron turn on/off

1. Turn on the power and remember to power it grounding.
2. Turn on: Press and hold the power button for 2 seconds to display 0n then release the button and it turn on;
Off: Press and hold the power button for 2 seconds to display 0FF then release the button and it turn off.

II. Second, the temperature setting

The temperature range is between 80°C~500°C.
Press the "+" or "-" button to enter the temperature adjustment mode ("." is displayed)
Increase: Pressing the "+" key once means increasing by 1 degree; long pressing the "+" key, the temperature increases rapidly and can be controlled freely.
Decrease: Pressing the "-" button once means that the temperature is lowered by 1 degree; if you press the "-" button long, the temperature drops rapidly and can be controlled freely.
After the temperature setting is completed, press the power button to save and exit (display "." disappears); or wait for the display "." to disappear automatically and exit.

III. Third, the temperature correction setting 0--E

When the tip temperature does not match the set temperature, the compensation digit can be set to calibrate the temperature, and the compensation temperature range is ±50°C.
Set the compensation temperature: double press the power button to enter the selection menu (press +/- button to switch the menu option), select the first function item to display 0--E, then press the power button to enter the compensation parameter setting, display -00 press "+" key to set temperature subsidiary, display 00 press "+" key then set temperature reductive, press the power button after setting is completed to save and exit.
Delete the correction setting: Set the complement parameter back to 00 or -00 to save and exit.

IV. Fourth, password settings P--d

Set password: Double press the power button to enter the menu (press +/- button to switch menu option), switch to display P--d function item, press power button to enter password setting when display P--2, Press "-" to switch the digit setting, press "+" to set the parameter. Press the "-" key after the three-digit password is set to save and exit (the password is valid after restarting).
Input the password: When password bet set, L--l means it need password to access, press "-" to switch the digits, press "+" to enter the parameters. After the three digits password be filled in, press "-" to access.
Delete password: Set the password parameter back to 000 to save and exit (if you forget the password during use, you can restore the factory settings).

V. Five, sleep time settings 5--P

The sleep mode time is between 5~30 minutes.
Set sleep: double press the power button to enter the selection menu (press +/- button to switch menu option), switch to display 5--P function item, press power button to enter sleep time parameter setting, press +/- key to set time Parameters, press the power button after setting is completed it will save and exit.
Turn off sleep: set the sleep time parameter back to 00 minutes to save and exit.
Entering the sleep state (displaying 5--P), the temperature automatically drops to 80 degrees. When the soldering iron be used again, the temperature quickly rises to the original set temperature. If the soldering iron is not used within 120 minutes, it will automatically shut down.

VI. Sixth, Fahrenheit / Celsius switching settings F--C

Press the power button twice to enter the selection menu (press +/- to switch the menu option), switch to display the F--C function item, press the power button to enter the switching mode, press the "+" button to set the Fahrenheit (display ----F), press the "-" button to set Celsius (display ----C), press the power button after the setting is completed to save and exit.

VII. Seven, restore factory settings

Press and hold the power button and the "-" button at the same time, unplug the power plug, re-plug the power plug (display ----), release the button then it back to factory settings.

Iron Tip maintenance and use

A. Welding nozzle using

Too high temperature will weaken the welding nozzle function, so choose the temperature as low as possible. The welding nozzle of restoring force is good, even under the low temperature it can also fully complete the welding work. What is more, it can protect temperature sensitive elements.

B. Welding nozzle cleaning

Should periodically clean the weld nozzle with the cleaning sponge or with a cleaning wet cloth). Because after welding, the residual slag will produce oxide and carbide which can damage the welding nozzle or cause welding error or make the heat conduction of welding nozzle weaker. Long time continuously using welding nozzle, once a week the welding nozzle should be taken apart to clean the residual slag on the surface, so to prevent welding nozzle damaged and reduce temperature.

C. Do not use welding nozzle

When do not use welding nozzle, do not let welding nozzle in high temperature condition for long time. Or you will make the flux of welding nozzle on change to oxide, which will make the heat conduction of welding nozzle weaker.

D. After use welding nozzle

After the use, should wipe clean the welding nozzle and plate new tin layer on it to prevent the welding nozzle from oxidation.

E. Elding nozzle maintain: Check and clean the welding nozzle

Note: do not file the oxide on welding nozzle with rasper!

1. The setting temperature at 250°C.
2. After the temperature stability, clean the welding nozzle with cleaning sponge, and check it.
3. If welding nozzle on tin part contains black oxide, plate a new tin layer on the welding nozzle, then use leaning sponge to wipe welding nozzle. So repetitive operation to remove the oxide and then plate a new tin layer on the welding nozzle.
4. If welding nozzle becomes deformation or serious erosion, must replace the welding nozzle with a new one (Suggest using the original nozzle).

F. Extend the welding nozzle life

1. After each finish the welding work, plate a new tin layer on the welding nozzle to prevent welding nozzle from oxidation and extend the using life.
2. Under the condition of normal working please set the temperature as low as possible. Low temperature can reduce welding nozzle oxidation, as well as can easily to weld components.
3. Only in necessary condition to use thin welding nozzle, because of the thin welding nozzle less durable than the thick one.
4. Don't use welding nozzle as detection tools, because welding nozzle bending will make coating rupture and shorten its service life.
5. Use less active rosin flux, because the high content of active rosin will accelerate welding nozzle coating corrosion.
6. When not using welding nozzle, please turn off it's power as far as possible to prolong its service life.
7. Don't put welding nozzle with great heavy stress, because that is not equal to faster heat.

Fault detection

1. Turn on without power and check whether the socket is plugged or not.
2. Show U - H, said the voltage too high.
3. Show U - L, said the voltage too low.
4. It displays H-E when the machine is power on. It means that temperature sensor has been open-circuited or when the temperature is higher than 500 degrees, it shows H-E or it is the heating core fault. The heating core needs to be replaced.

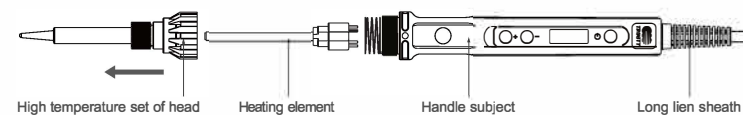
Removable Accessories

Note: When replacing parts, please turn off the power self-locking switch, unplug the power cord, and do not power on!

Replace heating element:

Note: Please turn off power self-locking switch and unplug power cable plug when replace heating core

1. Release high-temperature sleeve cap.
2. Take out heating element along the direction of iron tip.
3. Change new heating element and assemble it into original form.



Pluggable heating core:

Mode	Power Supply	Power
A43111P	110V	110W



Parts list

