SEQURE

ELECTRONIC WELDING TOOL

Nc Thermostat Soldering station

Instruction Manual

SEQURE brand, precision manufacturing

Thank you for using this product. Please read the instructions carefully before use to avoid errors in operation.

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

Diagram labels (top to bottom):
- Long line sheath
- ON/OFF (function key "K3") power switch
- Display screen
- Key of increasing temperature (function key K2"+")
- Key of reducing temperature (function key K1"-")
- Silica gel shield sleeve
- GP4 high-temperature sleeve
- Nut
- Welding head

Packing List

Please confirm the package content
Mainframe. 1
Instruction manual. 1

Features

★ Applicable to AC 110 ~ 240V, applicable to different countries and regions.
★ Small size, three button design, powerful function.
★ Extremely fast temperature return, heating speed 8 seconds.
★ High quality heating body, high platinum temperature sensitivity.
★ Two display temperature modes (Celsius ° C, Fahrenheit ° F) .
★ Have the sleeping function. Energy-saving. The tempeature of the soldering station can be set to reduce to 100 degrees automatically when it is not used during 0 ~ 30 minutes.After sleep, pick up and shake the electric iron again to wake up , and the temperature of the iron will quickly rise to the original set temperature.
★ Microcomputer temperature compensation value, temperature error less than plus or minus 5 degrees.
★ The power cord is made of soft material with high insulation.
★ LED display. The content is absolutely clear.
★ Memory mode function.
★ Handle is made of special high temperature resistant material and ESD antistatic treatment.
★ 60W / 90W / 110W multiple power for your choice.

Solder tip: 900M / C8L model can be configured.

Key K1: The key of lowering temperature to lower temperature (function key "-")
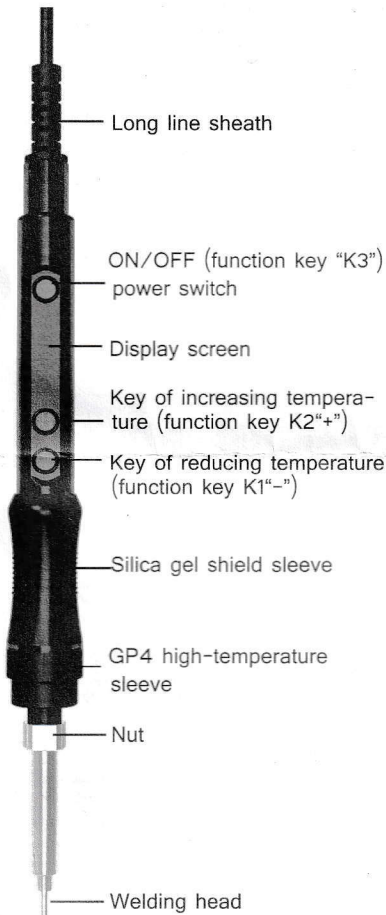Key K2: The key of increasing temperature to increase temperature (function key"+")
Key K3: ON/OFF power switch

Parameters

Power supply: 220V/50HZ   110V/60HZ
Welding nozzle earth impedance: <2Ω
Welding nozzle earth voltage: <2 mv

Specifications

Type		SQ-A60	SQ-A90	SQ-A110
Power		60W	90W	110W
Temperature range		100~500° C (212~932° F)		
Soldering Nozzle		900M/C8L Series tip		
Hight temperature set of head		GP4		
Exothermic Material Core	220V	A1926	A1929	A19211
	110V	A1916	A1919	A19111
Power Supply		AC220V/50HZ	AC110V/60HZ	

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

Note:
Do not touch the metallic parts near the tip.

Warning:
Do not operate nearby the tinder.

⚠ CAUTION

Because abuse will cause burns and fire.
Please strictly comply with the following matters;
● Please avoid abusing the soldering iron, should operate according to the working instruction.
● Do not touch the metal parts of the soldering iron.
● Do not use the soldering iron nearby the combustible.
● Notice staffs that the soldering nozzle is easy to cause burn or other dangerous accidents, so please turn off the power after getting off work.
● Before replace soldering nozzle, please confirm the power is shut off and the nozzle is cool.
● It is strictly prohibited to use the product when any damage, especially the power cord damages.
● This product uses three lines 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 lines ground- power cord.
● Please don't knock the soldering iron on the table to clear the residual tin slag on iron. Because thus doing shall result in serious damage to the soldering iron.
● Please don't replace the solder iron without authorization.
● It is suggested that replace parts with the original accessories.
● Don't get the solder iron wet. Please do not use or take apart the solder iron and pull the cord
● 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.
● Prohibit making any damage to body or objects when use the soldering iron.
● 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

Use numerical control constant temperature welding table
I . Boot Operation

1. Power-on. Please remember to use groundingly.
2. Turn on power switch of main machine: ON/OFF power switch (function key K3).

II . Setup Function

1. Display °F and °C.
   Long press K2 key to enter the setting item:
   Short press K1 key to enter settings. Short press the K1 key in turn, and display the conversion between °C and °F. After setting, release the key. Press the K1 and K2 keys at the same time to save the settings and exit the settings.
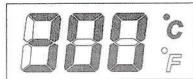

Press K1 key
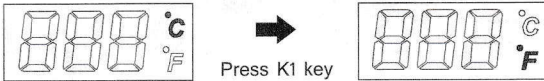
> * After setting status timeout, the current setting will be saved automatically and exit.

2. Temperature Setting
   Long press K2 key, enter the setting item, then continue to short press K2 key to traverse the setting item, enter the temperature setting item:
   Short press K1 key to enter the setting, short press K1 key to set the temperature of −1 degree. And long press K1 key, the setting temperature will continue to decrease rapidly during the press of the key; short press K2 key to set the temperature of +1 degree, long press K2 key, the setting temperature will continue to increase rapidly during the press of the key. When the preset temperature value is reached, release the key. Press the K1 and K2 keys at the same time to save the settings and exit the settings.
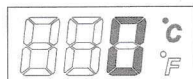

> * After setting status timeout, the current setting will be saved automatically and exit. Temperature setting range: 100 ~ 500 °C

3. Compensation Temperature Setting
   Long press K2 key to enter the setting item, then continue to press K2 key to traverse the setting item, enter the compensation temperature setting item:
   Short press K1 key to enter the setting, short press K1 key to set the compensation temperature −1 degree, long press K1 key to set the compensation temperature to decrease continuously during the press of the key; short press K2 key to set the compensation temperature +1 degree, long press K2 key to set the compensation temperature to increase continuously during the press of the key. When the preset temperature value is reached, release the key. Press the K1 and K2 keys at the same time to save the settings and exit the settings.

4. Sleep Time Setting

Long press K2 key, enter the setting item, and then continue to short press K2 key to traverse the setting item, enter the sleep time setting item (Note: after entering the sleep time setting item, the LED screen value displays the value, without Celsius, Fahrenheit symbol display):
Short press K1 key to enter the setting, short press K1 key to set the time of entering sleep -1 minute, long press K1 key to set the sleep time to decrease continuously during key press; short press K2 key to enter sleep +1 minute, long press K2 key to set the sleep time to increase continuously during key press. When the preset value is reached, release the key. Press the K1 and K2 keys at the same time to save the settings and exit the settings.

III. Heating Function

1. In the idle state:
   Long press K1 key, release the key, start to heat up. After warming up to the target setting value, the target setting temperature will be maintained.
2. In the temperature control state:
a. Long press K1 key to continuously decrease the target temperature, and long press K2 key to continuously increase the target temperature. When the key is released, the temperature will drop/rise to the target value.
b. Press K1 and K2 keys at the same time to enter the function setting (the setting method is the same as above). After the data setting is completed, release the key and wait for the setting to be saved automatically and exit.

IV. Sleep And Wake Up

1. After reaching the set sleep time, it will enter the sleep state. At this time, the temperature is 100 °C, and within 5 minutes during the sleep period, press the K1 and K2 keys at the same time to enter the setting item and wake up the device. Or pick up the shaking soldering iron again to wake up. If there is no required setting item at this time, the device will return to the previous state after waiting for the setting item to exit.
2. If there is no wake-up within 5 minutes after the start of sleep, then after 5 minutes and entering the deep sleep state, you will not be able to wake up from sleep at this time, you can only press the K3 key to restart the device.
3. When entering deep sleep state, only the temperature unit light is on under normal state, and other LED indicators are not on.

V. Fault Detection

1. Turn on without power and check whether the socket is plugged or not.
2. After turning on, if the LED displays "H-E", it meets that the temperature sensor has been on, the heater fault and the heater should be replaced.

VI. Factory Default Settings

Temperature unit	° C
Factory temperature	300 ° C
Compensation temperature	0 ° C
Sleep time	10 min
Sleep temperature	100 ° C
Deep sleep	Sleep for 5 minutes without waking up, enter deep sleep, press K3 to restart

Welding Nozzle

1. 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. Whar is more, it can protect temperature sensitive elements.
2. 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.
3. 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.
4. Elding nozzle maintain
   Check and clean the welding nozzle:

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

a. Connect the power supply, wait for the temperature to stabilize.
b. After the temperature stability, clean the welding nozzle with cleaning sponge, and check it.
c. 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.
d. If welding nozzle becomes deformation or serious erosion, must replace the welding nozzle with a new one (Suggest using the original nozzle).

5. 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 thewelding nozzle should be taken apart to clean the residual slag on the surface, so to prevent welding nozzle damaged and reduce temperature.

6. Extend the welding nozzle life:
a. 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.
b. 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.
c. Only in necessary condition to use thin welding nozzle, because of the thin welding nozzle less durable than the coarse one.
d. Don't use welding nozzle as detection tools, because welding nozzle bending will make coating rupture and shorten its service life.
e. Use less active rosin flux, because the high content of active rosin will accelerate welding nozzle coating corrosion.
f. When not using welding nozzle, please tum off it' s power as far as possible to prolong its service life.
g. Don't butt welding nozzle with great heavy stress, because that is not equal to faster heat.

Removable Accessories

After turning on, if the LED displays "H-E", it meets that the temperature sensor has been on , the heater fault and the heater should be replaced.
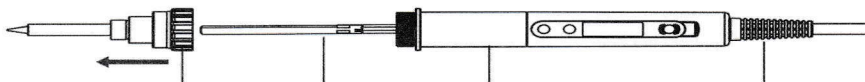
Heating core

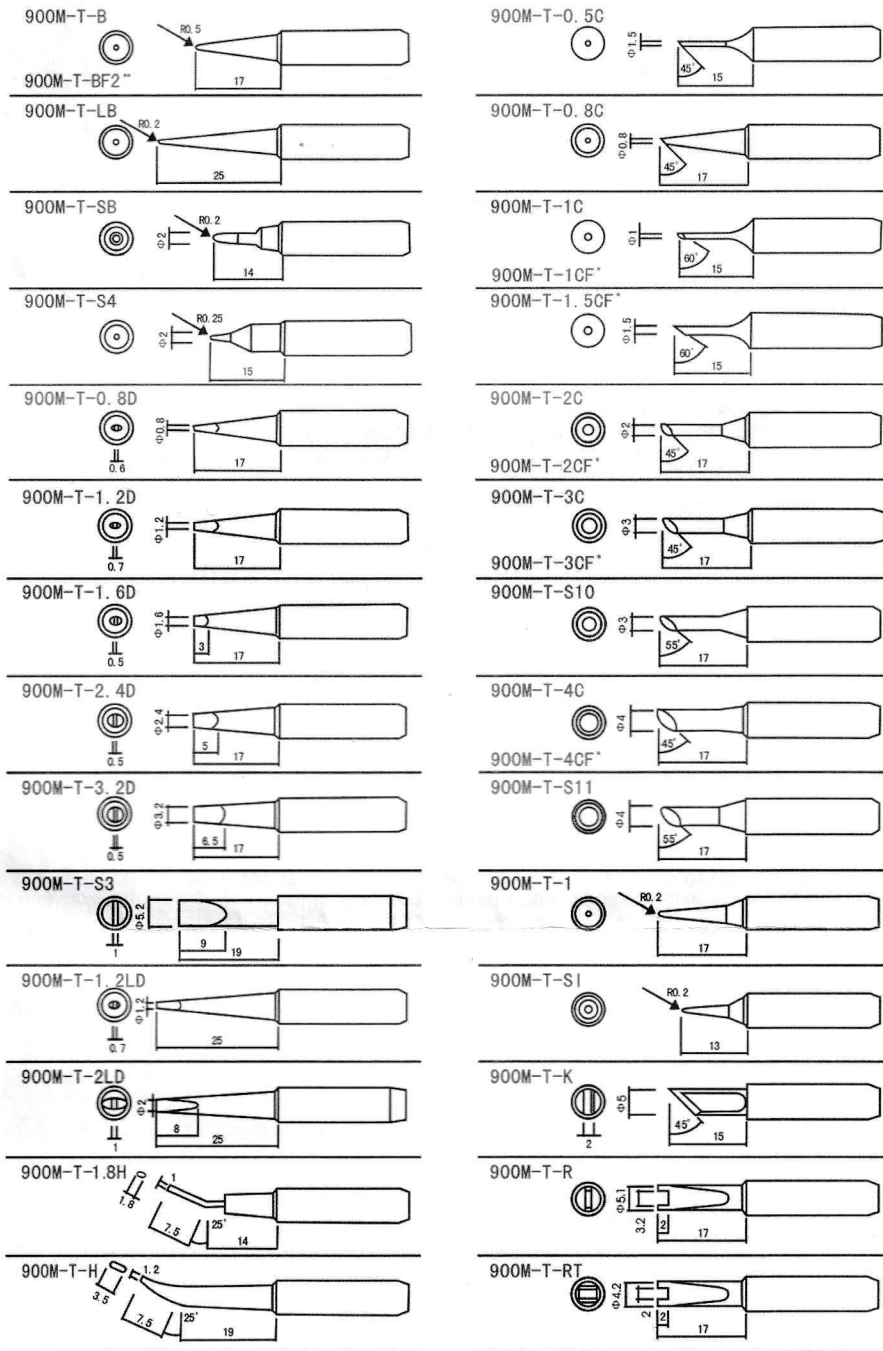| Type	60W	90W	110W
110V	A1916	A1919	A19111
220V	A1926	A1929	A19211

⚠ Note: Please turn off power switch and unplug power cable plug when replace heating core
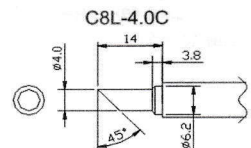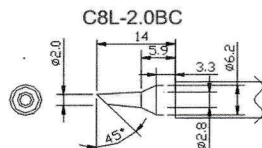
Replace heating element.

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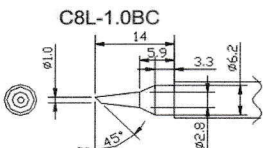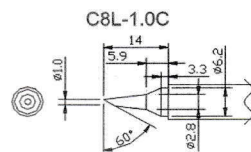2. Take out heating element along the direction of welding head.
3. Change new heating element and assemble it into original form.

GP4 hight-temperature sleeve   Heating element   Soldering iron plastic shell   Covered wire soft glue

Unit: mm

900M-T-B	
900M-T-BF2	R0.5 — 17

900M-T-LB — R0.2 — 25

900M-T-SB — Φ2 R0.2 — 14

900M-T-S4 — Φ2 R0.25 — 15

900M-T-0.8D — Φ0.8 — 0.6 — 17

900M-T-1.2D — Φ1.2 — 0.7 — 17

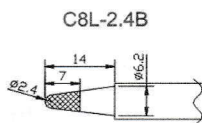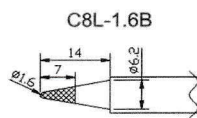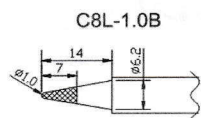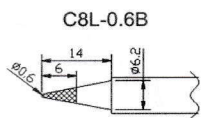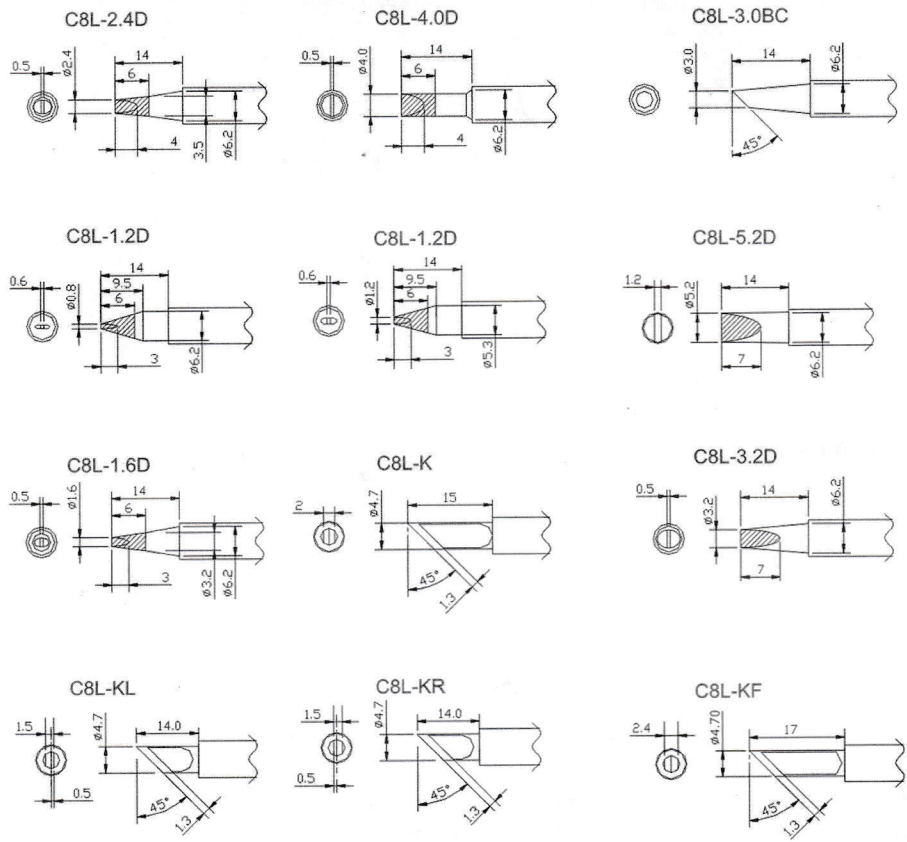900M-T-1.6D — Φ1.6 — 3 — 0.5 — 17

900M-T-2.4D — Φ2.4 — 5 — 0.5 — 17

900M-T-3.2D — Φ3.2 — 6.5 — 0.5 — 17

900M-T-S3 — Φ5.2 — 1 — 9 — 19

900M-T-1.2LD — Φ1.2 — 0.7 — 25

900M-T-2LD — Φ2 — 1 — 8 — 25

900M-T-1.8H — 1.0 — 1.8 — 7.5 — 25° — 14

900M-T-H — 1.2 — 3.5 — 7.5 — 25° — 19

900M-T-0.5C — Φ1.5 — 45° — 15

900M-T-0.8C — Φ0.8 — 45° — 17

900M-T-1C — Φ1 — 60° — 15

900M-T-1CF

900M-T-1.5CF — Φ1.5 — 60° — 15

900M-T-2C — Φ2 — 45° — 17

900M-T-2CF

900M-T-3C — Φ3 — 45° — 17

900M-T-3CF

900M-T-S10 — Φ3 — 55° — 17

900M-T-4C — Φ4 — 45° — 17

900M-T-4CF

900M-T-S11 — Φ4 — 55° — 17

900M-T-1 — R0.2 — 17

900M-T-SI — R0.2 — 13

900M-T-K — Φ5 — 45° — 2 — 15

900M-T-R — Φ5.1 — 3.2 — 2 — 17

900M-T-RT — Φ4.2 — 2 — 2 — 17

The outside diameter: Φ6.5mm

C8L-0.6B — Φ0.6 — 6 — 14 — Φ6.2

C8L-1.0B — Φ1.0 — 7 — 14 — Φ6.2

C8L-1.6B — Φ1.5 — 7 — 14 — Φ6.2

C8L-2.4B — Φ2.4 — 7 — 14 — Φ6.2

C8L-2.0B — Φ2.0 — 7 — 14 — Φ6.2

C8L-1.0C — Φ1.0 — 5.9 — 14 — 3.3 — Φ6.2 — Φ2.8 — 60°

C8L-1.0BC — Φ1.0 — 5.9 — 14 — 3.3 — Φ6.2 — Φ2.8 — 45°

C8L-2.0BC — Φ2.0 — 5.9 — 14 — 3.3 — Φ6.2 — Φ2.8 — 45°

C8L-4.0C — Φ4.0 — 14 — 3.8 — 45° — Φ6.2

C8L-2.4D C8L-4.0D C8L-3.0BC

C8L-1.2D C8L-1.2D C8L-5.2D

C8L-1.6D C8L-K C8L-3.2D

C8L-KL C8L-KR C8L-KF

Parts list

Item No.	Part No.	Part Name	Specifications
①	SQ19M1A-J-001	Heating core	Φ3.9*60MM
②	SQ19M1A-PCBA	PCBA Board	128*15.8*1.0MM
③	SQ19M1A-J-003	Cladding iron clamp	Surface plating
④	SQ19M1A-J-002	Iron head shell components	Plastic + metal plating
⑤	SQ19M1A-S-002	Soldering iron plastic shell	Translucent
⑥	SQ19M1A-S-001	Covered wire soft glue	Covered wire soft glue
⑦	SQ19M1A-S-003	Silica gel sheath	Silica gel Φ23.4*45MM
⑧	SQ19M1A-S-005	Button 1	Silica gel Φ6*4.65MM
⑨	SQ19M1A-S-005	Button 2	Silica gel Φ6*4.65MM
⑩	SQ19M1A-S-004	Button 3	Silica gel Φ4.85*5.6MM