

## SHENZHEN ATTEN TECHNOLOGY CO., LTD.

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- Soldering Iron    • Soldering Station    • Hot Air Rework Station
- Multi-function Rework System    • Switching DC Power Supply
- Regulated DC Power Supply    • Solder smoke purify machine
- Programmable Power Supply

# ATTEN

## MS-900

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### 4 in 1 Rework Station

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User Manual in English

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## SHENZHEN ATTEN TECHNOLOGY CO., LTD.

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MADE IN CHINA  
CBN037422 (B)

## Product warranty

### • Warranty regulations:

- ① The warranty period of this product is calculated from the date of purchase. During the warranty period, under the condition of normal use of this product, if the fault occurs due to the quality problem of the product itself, according to the content of this warranty card, you can enjoy free maintenance service at the authorized repair place designated by the company (or the company) by presenting the original warranty card. Please keep the proof of purchase and this warranty card, and present them together when maintenance.
- ② During the warranty period, paid maintenance services will be implemented in the following situations:
  - a. Failure to provide a valid warranty card or valid certificate.
  - b. Items such as the date of purchase and the name of the sales unit are not completely filled in or the warranty card is altered.
  - c. Damage caused by failure to operate in accordance with the usage methods and precautions written in the instruction manual.
  - d. Damage caused by natural disasters or force majeure.
  - e. Damage caused by dismantling, repairing or modifying the product without the authorization of the manufacturer.
  - f. Replacement of fragile and consumable parts.
- ③ All items of the warranty card must be filled in completely by the agent or user directly to obtain a 24-month warranty period.
- ④ Please keep this warranty card properly, it will not be reissued if it is lost.
- ⑤ In special circumstances, the two parties shall negotiate and deal with it.
- ⑥ The final interpretation right belongs to our company.

User Notice	Product warranty card
The warranty period of this product is valid within 24 months from the date of purchase. For any product quality problem, the company will be responsible for free maintenance with this card and purchase certificate.	Product Model: _____ Product No.: _____
Note: When this product is returned to the factory for maintenance, the warranty card must be attached, otherwise it will not be repaired for free, thank you for your cooperation (please read the warranty regulations for warranty related instructions)	EX-Factory No.: _____ Sold Date: _____

This product test result is qualified and met the technical standard.

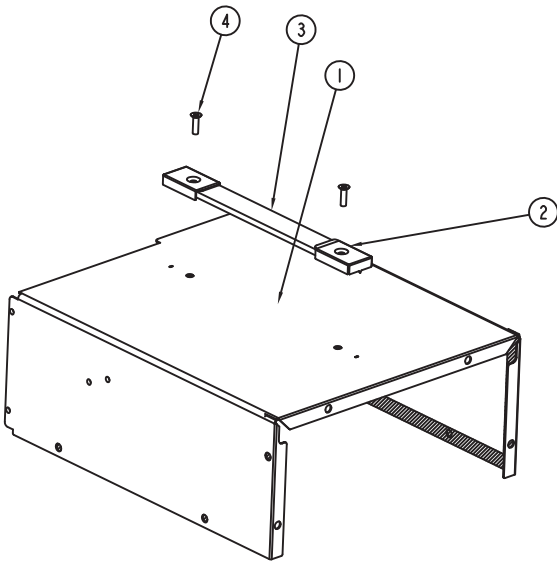


### Disclaimer

- 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 be responsible for further notice of the subsequent improvement of the product and this manual.

Exploded view of the Upper cover assembly

4	PM4X15
3	Grip strap
2	Grip buckle
1	Upper cover
Serial No.	Material name



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## Safety and cautions

- The design of this product (including software) and its accessories are under tutelage of laws. Any action to violate relevant right of our product will be penalized by the law. Please consciously observe relevant local laws in the use of this product.
- **Thank you for purchasing our products Please read this manual carefully and pay attention to warnings and precautions mentioned herein before using this product. Save this booklet for future reference.**

**⚠ warning** Failure to comply with a WARNING may result in serious injury or death.

**⚠ Attention** Failure to comply with a ATTENTION may result in injury to the operator, or damage to the items involved.

- We assume that user have common sense and basic relevant electrical operation knowledge before using this product. Children shall not play with the appliance without supervision.

**⚠ Attention** To avoid damaging to unit and please keep the operating environment safe.

- To avoid electric shock, injury to user or causing fire, please comply with the following items.
- To ensure your safety and avoid damage to the unit, please use parts and accessories that have been approved or recommended by our factory.

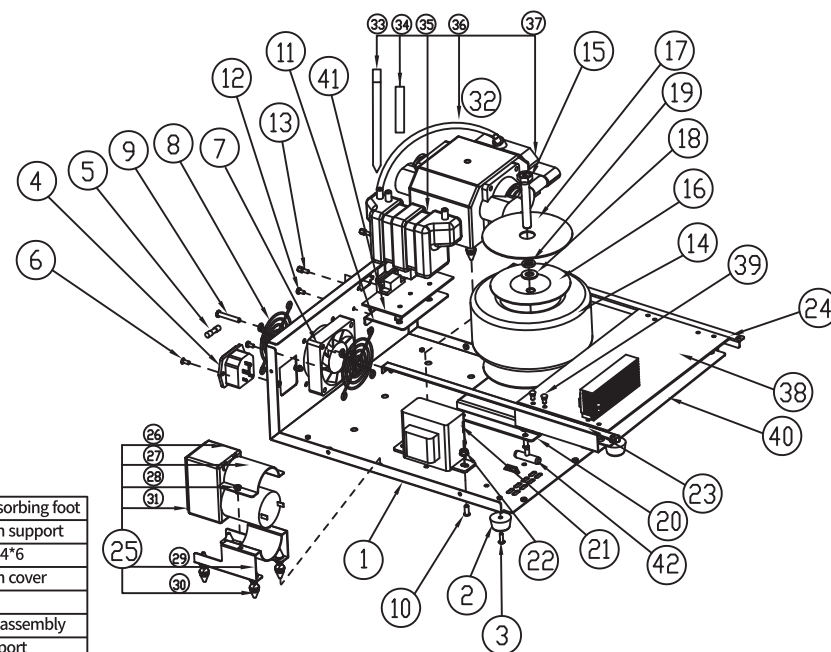
### ⚠ Warning

- **READ ALL INFORMATION BEFORE USE.**
- Power off when not in use or unattended. Place the soldering iron handle the iron stand, This tool must be placed on its stand when not in use.
- Keep this product away from flammable materials. When using, please inform other people in the area near the machine. Please do not touch the machine because of high temperature
- Do not apply to the same place for a long time.
- 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.
- 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.
- Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

### ⚠ WARNING

- Please make sure that the ground wire of power cord is grounded reliably when using the machine;
- **DO NOT** use the hot air nozzle directly on any person or animal. No matter under any circumstance, it is strictly prohibited to use the hot air gun as a hair dryer. **DO NOT** touch the heating pipe or blow the skin directly with the hot air gun;
- Please use the hot air gun with care. Do not drop or violently shake the machine. Do not put heavy materials on the equipment, or roughly operate the machine;
- The temperature will differ for different nozzle models which is a normal phenomenon, and is not a quality issue of the equipment;
- Do not use the machine with wet hands, or when the electric wire is damp to avoid short circuit or electric shock hazard;
- Keep this product away from children;
- **DO NOT** use this product near flammable gases or other flammable substances;
- Please use the spare parts provided by the manufacturer. The machine will not be covered by quality warranty service if any non-original accessory is used;
- **DO NOT** touch the soldering tip, desoldering nozzle, air nozzle and surrounding metal parts;
- Before replacing a component or soldering tip, desoldering nozzle or air nozzle, turn off the power and operate after the equipment is cooled;
- Do not use this equipment for any purpose other than desoldering;
- Fume will be generated upon soldering, so please provide ventilation measures;
- Do not play around when using the equipment, which may easily lead to physical injury;
- When using the equipment, please pay attention to the power specification;
- After use, please turn off the power switch, and the equipment will automatically shuts down once the blast cools off.

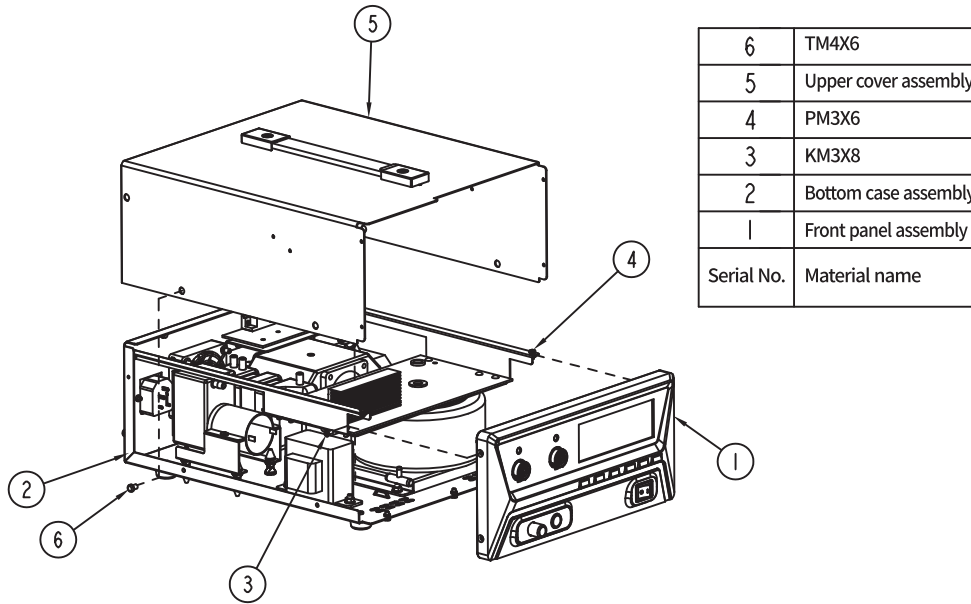
## Exploded view of the Bottom case assembly



30	Shock-absorbing foot		
29	Air suction support		
28	Screw PM4*6		
27	Air suction cover		
26	Air pump		
25	Air pump assembly		
24	Right support		
23	Left support		
22	M4 flange nut		
21	Transformer 1		
20	Transformer mounting plate		
19	Spring washer		
18	Washer		
17	Rubber washer on toroidal transformer		
16	Steel cover on toroidal transformer		
15	Hexagon bolt M8*65		
14	Transformer 1		
13	Hexagon stud #4-40*5+7mm		
12	Screw PM3*6	42	Three-way joint
11	Communication board mounting plate	41	Communication board
10	Nut M4	40	PVC insulation film
9	Screw PM4*25	39	PC board spacer support
8	Fan mesh enclosure	38	PCBA Power board
7	Fan	37	Air pump
6	Screw KM3*8 black	36	Highly Tear resistant silicone rubber pipe
5	Fuse 5A Φ5*20	35	Air storage tank
4	Power Outlet	34	Double-side foam paper
3	Screw PWM4*10	33	Cable ties 8*500
2	Rubber undercarriage	32	Air pump assembly
1	Bottom case	31	Foam
Serial No.	Material name		

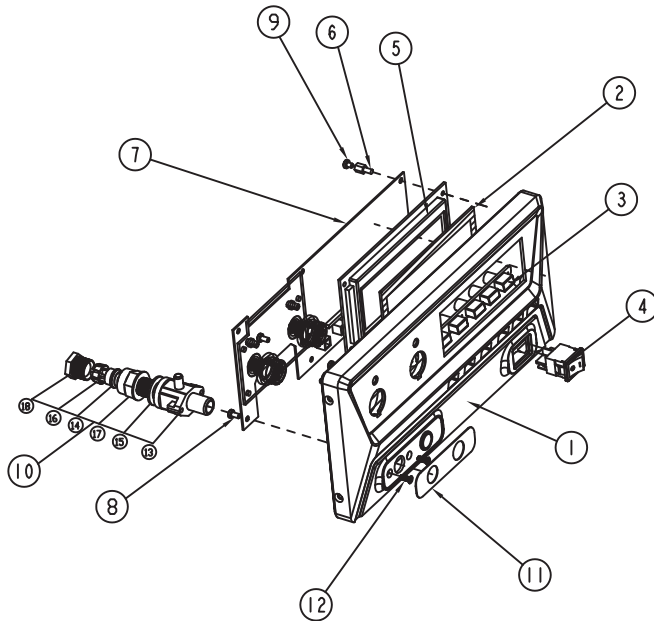


## Exploded view of the MS-900 host



6	TM4X6
5	Upper cover assembly
4	PM3X6
3	KM3X8
2	Bottom case assembly
1	Front panel assembly
Serial No.	Material name

## Exploded view of the Front panel assembly



18	Sealing nut
17	Sealing threaded sleeve
16	Locking ring
15	Three-way joint seal
14	Washer
13	Three-way joint
12	KA3*10 screw
11	Decoration panel
10	Three-way joint assembly
9	PM3X4
8	PM3X6
7	PCBA of front panel
6	Copper stud
5	LCD
4	Switch
3	Button
2	Display lens
1	Front panel
Serial No.	Material name

## Packing List

1	Main unit	1 set	13	Rubber washer	2 pcs
2	Hot air gun	1 pc	14	Desoldering nozzle	3 pcs
3	Soldering iron stand	2 pcs	15	Nozzle	4 pcs
4	Soldering pen	1 pc	16	Desoldering gun front plug	2 pcs
5	Electric tweezers	1 pc	17	Desoldering gun O-ring 6x1.5	2 pcs
6	Desoldering gun	1 pc	18	Desoldering gun O-ring	2 pcs
7	Suction pen	1 pc	19	Desoldering tube liner	1 pc
8	Power cord	1 pc	20	Filter cotton	10 pcs
9	Blow-dryer bracket	1 pc	21	Dust-absorbing sponge	10 pcs
10	Screw	2 pcs	22	Spring pin (cleaning pin)	1 pc
11	Suction disk	11 pcs	23	Anti-ironing mat	1 pc
12	Suction nozzle	3 pcs	24	User Manual	1 pc

## Product Overview

MS-900 is a 4 in 1 Rework Station integrated with hot air gun, soldering iron, desoldering gun and electric tweezers. Three tool channels can be used independently without interference. It adopts integrated and streamline design which has saved the operating space. Large LCD screen can display various information clearly. It is a perfect assistant of labs, technical personnel and electronics engineer.

※ In order to avoid damage to the machine and keep the operating environment safe. Please read this Manual carefully before using this product, and keep it properly for future reference.

## Functional Features

- High accuracy MCU control is employed to synchronously detect whether the 3 tool channels can be used independently and synchronously without mutual interference.
- Built-in vacuum generator.
- Super power. The whole machine can provide a maximum of 900W power output.
- Stand-alone machine can carry out multiple desoldering tasks simultaneously.
- Large screen graphics display screen which can display all kinds of parameter data and messages graphically. The contents can be presented abundantly and intuitively.
- Automatically identify all kinds of welding tools and load corresponding parameters.
- The software can adjust the temperature automatically which is more accurate and convenient.
- Fault display and alarm functions available.
- Functions such as standby, beep alarm, temperature lock and factory data reset available.
- Support communication interface. It can access to a computer, and complete various settings following the specified program.
- Vacuum desoldering pen is added to facilitate dismantle the desoldering components.

## Soldering pen

- The soldering station adopts integral heating core material which provides thermal conduction and extremely high temperature returning speed. It only needs 8s to heat up the room temperature when the machine is started up to 350℃.
- Front sensor is adopted to ensure high temperature control accuracy and good temperature stability.
- The welding holder is light and comfortable.

## Electric tweezers

- The heating core of electric tweezer adopts 12VDC low-voltage power supply and the main power transformer isolation output which is safe and reliable.
- Front sensor is adopted to ensure high temperature control accuracy and good temperature stability.

## Desoldering gun

- The heating core of desoldering station adopts 24VDC low-voltage power supply and the main power transformer isolation output which is safe and reliable.
- Built-in vacuum pump with strong suction.

## Hot air gun

- Intelligent cooling system is adopted. It can automatically delay the air supply when the equipment is shutdown which can greatly extend the service life of the heating core and holder.
- Spiral heating core is adopted which can contribute to longer service life.
- The holder of hot air gun has been redesigned to make the air more even. It is not easy to damage which is convenient for maintenance, storage and transportation.

## Specifications and Parameters

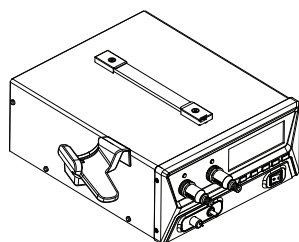
Input power	230VAC 50Hz (optional 110VAC 60Hz)			
Total power	900W (max)			
Name	AP-552B Hot air desoldering station	GT-Y130 Soldering pen	GT-X150 Desoldering gun	GT-N100 Electric tweezers
Power	Heating component 550W, air pump 25W	130W	Heating component 150W, vacuum pump 15W	100W
Output power	The same with the input power	24VDC	24VDC	24VDC
Temperature range	150-500℃/ 302-932℉	150-500℃/ 302-932℉	300-500℃/ 572-932℉	150-500℃/ 302-932℉
Standby temperature	No temperature output	200℃	300℃	200℃
Standby time	Auto-sleep when the handle is placed on the holder (sleep time cannot be set)	1-120 minutes (0 means standby deactivated)	1-120 minutes (0 means standby deactivated)	1-120 minutes (0 means standby deactivated)
Air flow	23L/min(Max) 5L/min(Min)	NA	NA	NA
Noise	<52 dB(A)	NA	NA	NA
Temperature calibration range	-50~+50℃/-90~+90℉			
Lock setting	Available			
Temperature stability	±5℃	±2℃	±2℃	±2℃
Tip to ground impedance	<2 Ohm			
Tip to ground voltage	<2 mv			
Working Temperature & Humidity	Temperature 0℃ ~ 40℃ Relative humidity < 80%			
Storage Temperature & Humidity	Temperature -20℃ ~ 80℃ Relative humidity < 80%			
Overall dimension	310(L)x309(W)x146(H)mm (with hot air gun holder)			
Weight	8270 g (Main unit + Power cable + Hot air gun + Hot air gun holder)			

※ The above specification may change. Please refer to the actual machine parameters.

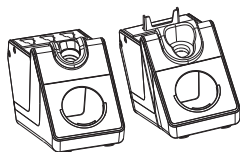
## Tool Kit Diagram

※ The following specification is the standard configuration of the equipment, and it also supports GT-Y050/GT-Y150 soldering pen (optional).

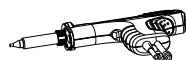
This product needs to be tested before shipment, so some accessories may cover a small amount of tin and the casing will be slightly yellowing, which is a normal phenomenon.



MS-900 Main unit



Soldering iron stand



GT-X150 Desoldering gun  
(for MS-900 only)



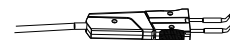
GT-B001 Suction pen



GT-Y130 Soldering pen



AP-552B+ Hot air gun



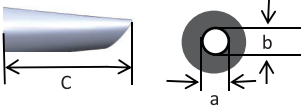



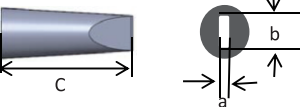



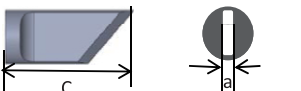

GT-N100 Electric tweezers

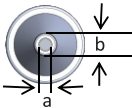
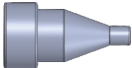
## Care and maintenance

### Warning

- It should be maintained by qualified electric technician or service personnel specified by original factory to check the fault or clean the machine, turn the power off and allow the unit to cool down to room temperature.
- Before carrying out any cleaning or maintenance work, always make sure that the appliance is disconnected from the mains supply by unplugging the power cord from socket-outlet.

Fault code or fault description	Likely causes of the faults
E-1 : thermal fuse fault	<ol style="list-style-type: none"> <li>1. In case open circuit fault occurs to the heating core, replace it.</li> <li>2. In case poor contact occurs to the heating core, unplug and then re-install it.</li> <li>3. In case the internal connection cable inside the heating core &amp; handle is broken or heating core connection contact piece is damaged, repair the broken lead wire or replace the soldering pencil.</li> </ol>
E-2:sensor alarm	<ol style="list-style-type: none"> <li>1. In case the heating core is damaged, replace it.</li> <li>2. In case open circuit occurs to the lead wire of the Sensor, check the lead wire of the soldering pencil.</li> </ol>
Screen display fault:	<p>In case the problem occurs, you can try to adopt the following measures to solve it. If the problem still cannot be solved, please return the equipment to the original factory for inspection.</p> <ol style="list-style-type: none"> <li>1. Check if the socket switch is on.</li> <li>2. Check if there is voltage on the socket.</li> <li>3. Check if the plug with the power line is loose.</li> <li>4. Check if the fuse is damaged (if so, please replace the fuse according to the specifications)</li> </ol>
Inaccurate temperature:	<ol style="list-style-type: none"> <li>1. Use user temperature compensation function to correct the temperature.</li> <li>2. Replace the heating core with one produced and sent by the original factory.</li> </ol>
Mojibake:	<ol style="list-style-type: none"> <li>1. In case there is strong interference source from the outside environment, please change the application environment or evacuate from the interference area.</li> <li>2. In case the internal circuit is abnormal, please send the equipment to the designated after-sales outlet for maintenance.</li> </ol>

T150 series (applicable to GT-Y150 soldering iron)					
Bevel soldering tip (type C) 	Graphical representation	Model	$\Phi$ a mm	b mm	c mm
		T150-3C	3.0	3.0	15
		T150-5C	5.0	5.0	16
		T150-6.5C	6.5	6.5	16
Chisel-like soldering tip (type D) 	Graphical representation	Model	$\Phi$ a mm	b mm	c mm
		T150-3.2D	1.2	3.2	13
		T150-4.6D	1.6	4.6	13
		T150-6.5D	2.0	6.5	13
Knife-like soldering tip (type K) 	Graphical representation	Model	$\Phi$ a mm	b mm	c mm
		T150-K	3.0		17

T151 series (applicable to GT-X150 desoldering gun)				
	Graphical representation	Model	$\Phi$ a mm	b mm
		T151-0.8	0.8	1.8
		T151-1.0	1.0	2.0
		T151-1.3	1.3	2.3
		T151-1.6	1.6	3.0

## Daily use and maintenance

In order to ensure service life of the product, please pay attention to the precautions during use:

- Use lower soldering temperature, excessive soldering temperature will damage the parts and the PCB, and will also oxidize the soldering tip, shortening the service life of the soldering tip.
- Use low-activity solder flux where possible. Use corrosive solder flux will shorten the service life of the soldering tip.
- Timely remove the oxidation in the soldering tip to ensure fleet soldering. Attention! Simply scrape the oxidation layer when clearing, and do not abrade the soldering tip with force, otherwise the service life of the soldering tip may be undermined.
- When wiping the soldering tip, make sure to use soft materials, e.g. wet sponge, etc. If the soldering tip is severely oxidized, steel wool can be used to wipe and clean. Attention! Regularly use steel wool to wipe the soldering tip may influence the service life of the soldering tip.
- Upon heating, please make sure that the soldering tip is tinned, so as to prevent oxidation.
- Upon soldering, please do not exert great force in the soldering tip, otherwise it will not be helpful to melt the soldering tin, but will damage the soldering object and the heating core.
- When using the GT-X150 holder, do not suck any other materials other than soldering tin, to avoid damage to the main unit.

## Front Panel Interface Diagram

### Channel 1 indicator

On indicator indicates heating of the channel holder  
Off indicator indicates not heating of the channel holder

### Channel 2 indicator

On indicator indicates heating of the channel holder  
Off indicator indicates not heating of the channel holder

### Interface of channel 1

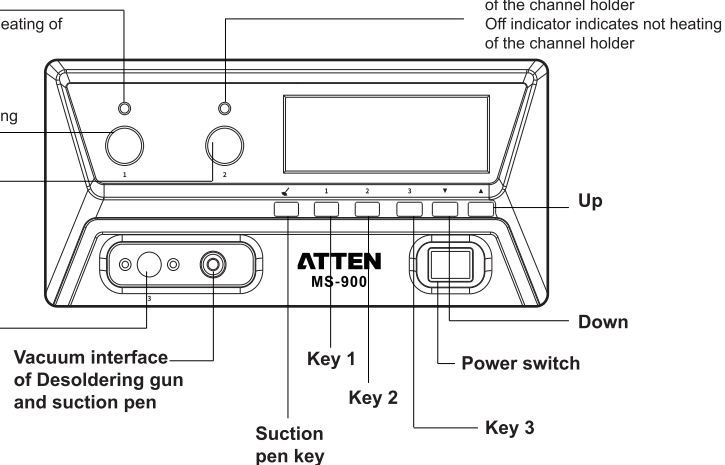
Soldering station, desoldering gun and electric tweezers

### Interface of channel 2

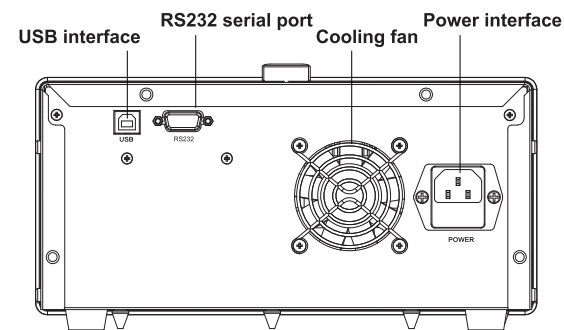
Soldering station, desoldering gun and electric tweezers

### Interface of channel 3

Connecting the hot air gun holder



## Rear Panel Interface Diagram



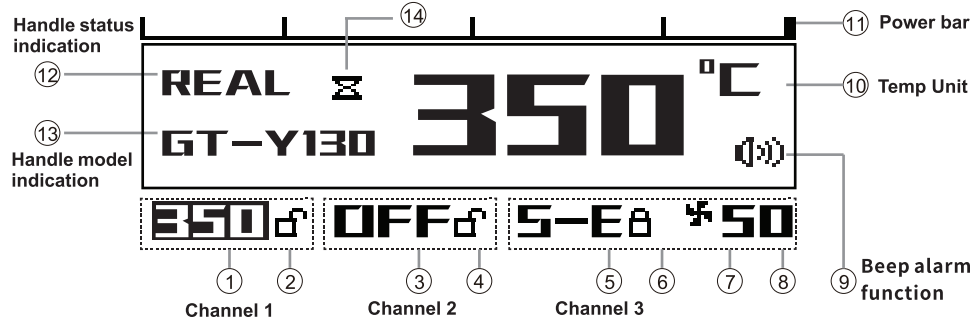
## Work Interface Description

After the machine is powered on, turn on the power switch. The screen will display the company name for 3s and then switch to the normal working interface.

### Boot screen of MS-900

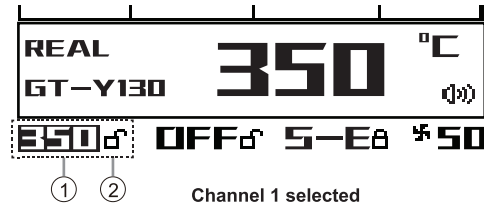


## Working Interface Introduction and Operation Method



※ When the desoldering gun fails to reach the setting temperature, displays "⌘"; When the desoldering gun is blocked, displays "⌘"; In other statuses, provides no indication.

Channel 1



### ① Inverse selection indicates that the current channel is selected.

Long press key "1" to turn on/off channel 1.

Channel 1 off: Always shows OFF.

Channel 1 open:

Selected: Always show temperature setting values

Unselected, display according to the running state.

Running state	Display contents
Normal operation	Setting temperature
Standby	SLP
Sensor failure or no handle available	S-E
Heating core damage	Display H-E

Short press key 2 (or 3) to switch to the Channel 2 (or 3). And the channels switched will be in Invert Selection state.

- ② Channel 1 locking: When it is unlocked, and press the "▼" "▲" on the panel to increase or decrease the parameter value. When it is locked, the channel parameters cannot be changed.  
Channel 1 locking on/off: Press "⌘" for more than 3s to switch the locking function between on and off.

## T100 series (applicable to GT-N100 tweezers)

Chisel-like soldering tip (type D)	Graphical representation	Model	Φ a mm	b mm	
		T100-1.3D	0.5	1.3	
		T100-2.2D	0.5	2.2	
		T100-3.0D	1.0	3.0	
Conical-like soldering tip (type I)	Graphical representation	Model	Φ a mm		
		T100-0.5I	0.5		

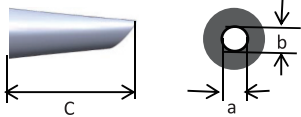

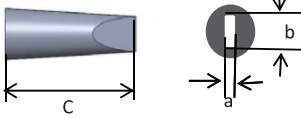



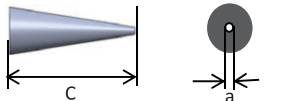

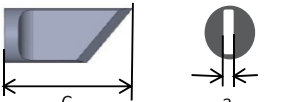

## T130 series (applicable to GT-Y130 soldering iron)

Bevel soldering tip (type C)	Graphical representation	Model	Φ a mm	b mm	c mm
		T130-1.2C	1.2	1.2	10.0
		T130-2.4C	2.4	2.4	10.0
		T130-3.2C	3.2	3.2	10.0
		T130-4.6C	4.6	4.6	10.0
Chisel-like soldering tip (type D)	Graphical representation	Model	Φ a mm	b mm	c mm
		T130-1.6D	0.8	1.6	10.0
		T130-2.4D	1.0	2.4	10.0
		T130-3.2D	1.2	3.2	10.0
		T130-4.6D	1.6	4.6	10.0
Conical-like soldering tip (type I)	Graphical representation	Model	Φ a mm	b mm	c mm
		T130-0.5I	0.5	10.0	
		T130-1.0I	1.0	10.0	
Knife-like soldering tip (type K)	Graphical representation	Model	Φ a mm	b mm	c mm
		T130-K	2.0		12.5

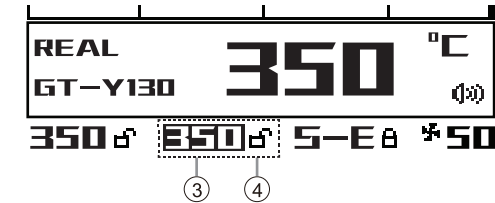
## Specification and Model of Product

Product model	GT-Y050 (Optional)	GT-Y130	GT-Y150 (Optional)	GT-N100	GT-X150	
Rated voltage	12VDC	24VDC	24VDC	12VDC	24VDC	
Heating power	50W	130W	150W	50W*2	150W	
Temperature range	150-500℃ ; 302-932℉				300℃-500℃; 572℉-932℉	
Material of cable	High temperature resistant silica gel					
Heating core type	Integrated heating element					
Temperature sensor	Thermocouple					
Heating core model	T50 series	T130 series	T150 series	T100 series	GT-X150	

## Integrated Heating Core Specification (For option)

T50 series (applicable to GT-Y050 soldering iron)					
Bevel soldering tip (type C)	Graphical representation	Model	Φ a mm	b mm	c mm
		T50-1.2C	1.2	1.2	9.0
Chisel-like soldering tip (type D)	Graphical representation	Model	Φ a mm	b mm	c mm
		T50-1.3D	0.5	1.3	9.0
		T50-2.2D	0.5	2.2	9.0
		T50-3.0D	1.0	3.0	9.0
Conical-like soldering tip (type I)	Graphical representation	Model	Φ a mm		c mm
		T50-0.5I	0.5		9.0
Knife-like soldering tip (type K)	Graphical representation	Model	Φ a mm		c mm
		T50-K	1.2		9.0

## Channel 2

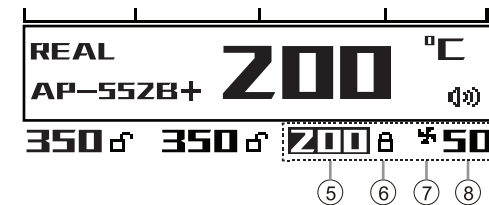


Channel 2 selected

\* Operation same with that of channel 1

- ③ Long press key "2" to turn on/off channel 2. Short press key "1" (or key "3") to switch to channel 1 (or channel 3), and the channels switched will be in Invert Selection state. Operation is the same with that of channel 1
- ④ Channel 2 lock symbol.

## Channel 3



Channel 3 selected

\* Operation same with that of channel 2

- ⑤ Long press key "3" to turn on/off channel 3. Short press "3" to switch between temperature or air flow settings Short press key "1" (or key "2") to switch to channel 1 (or channel 2), and symbol is in reverse selection, it means that it is in air volume adjustment state.
- ⑥ Channel 3 lock symbol.
- ⑦ When the fan symbol is displayed, it means that it is in air output state; inverse selection indicates air flow adjustment status.
- ⑧ Air volume display of Channel 3



## Beep alarm function

- ⑨ When the tone function symbol is on, keypad tone will appear at all keys operation, and will disappear after turn it off. When the power switch is off, long press "▼" and "▲" key. Turn on the power switch once more to switch tone on and off.



#### Tone function

- ⑩ Temp Unit displayed: °C or °F  
When the power switch is off, long press " ", and then turn on the power switch. The temperature unit will switch between °C and °F.

#### Power bar

- ⑪ Displays current channel output power status.

#### Holder status indication

- ⑫ Holder status indication: REAL (real-time value).

#### Holder model indication

- ⑬ Holder model indication NO TOOL (current channel not connected with holder), GT-Y130, GT-X150, GT-N100, AP-552B.

#### Other running status display



Channel 1 is selected and is working normally  
Channel 2 is off  
Channel 3: Sensor failure or no holder available



Channel 1 is off  
Open the Channel 2 and set the temperature to 200°C  
Channel 3: Sensor failure or no holder available



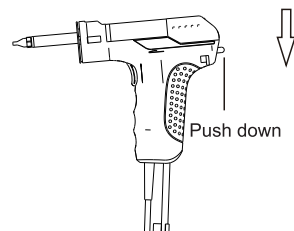
Channel 1 is selected and is in dormant state  
Channel 2 is off  
Open the Channel 3 and set the temperature to 300°C



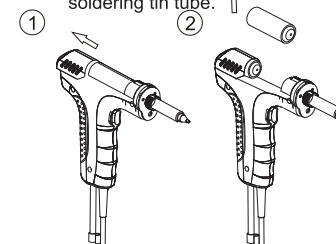
Channel 1 is selected. Sensor failure or no holder available  
Channel 2 is off  
Channel 3: Sensor failure or no holder available

## GT-X150 Regular Cleaning

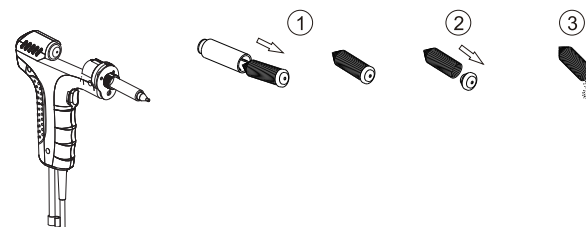
- 1 Press the switch on the rear of the desoldering gun



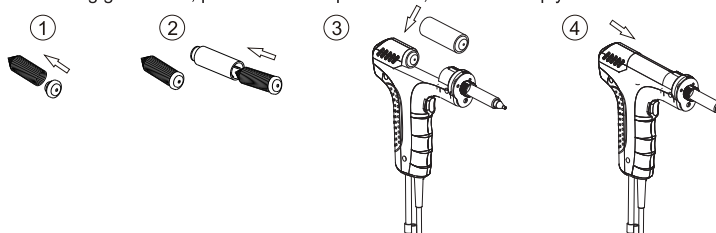
- 2 Draw the rear cap to withdraw the soldering tin tube.



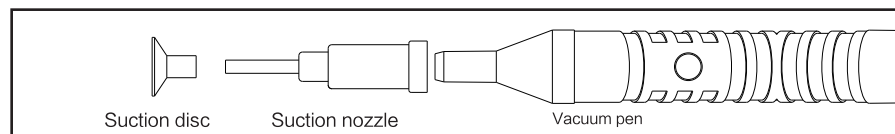
- 3 Withdraw the spring in the soldering tin tube, unplug the rubber plug, and pour out the residual tin.



- 4 Put back the spring and the rubber plug, put them into the soldering tin tube, put back to the desoldering gun holder, push the rear cap forwards, and then simply lock it.



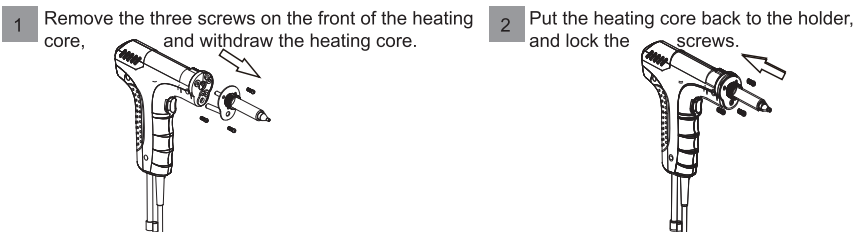
## Use method of vacuum pen



Insert the head of the suction nozzle in to the hole of the suction disc, and finally insert the vacuum pen to the end of the nozzle to complete the assembly.



## GT-X150 desoldering gun heating core replacement



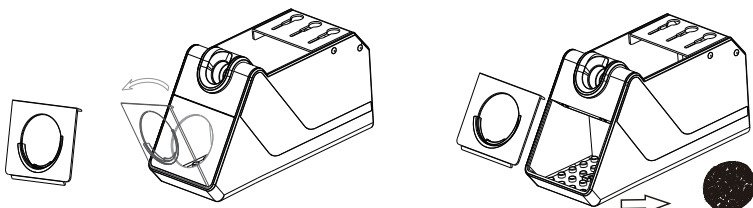
3 Placement mode of heating core .



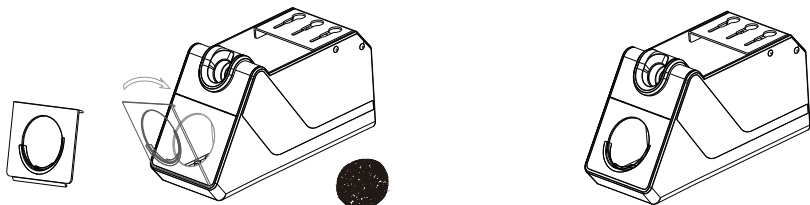
Tips: After replacement of heating core, please verify the temperature accuracy, and use temperature compensation setting items to compensate and calibrate temperature error.

## Replacement of Sponge or Steel Wool

1 Open the soldering iron stand as shown in the diagram, withdraw the sponge or steel wool.



2 Put the sponge or steel wool for replacement into the soldering iron stand.



Channel 1 is selected the channel heater is damaged  
Channel 2 is off  
Channel 3: Sensor failure or no holder available

Channel 1 is selected. No connect handle.  
Channel 2 is off  
Channel 3: Sensor failure or no holder available

## System Function Setting

### Temperature calibration

Press key "1" to switch the channel to channel 1 of soldering station (skip this step if it is channel 1 of soldering station already). While pressing the key "1", press "1" for more than 3s to enter temperature calibration mode as shown in the figure below.



### CAL Temperature calibration

Status bar displays "CAL" "GT-Y130" (current soldering iron type). The main window displays the community positive values (0°C or 0°F at delivery). Press "▼" or "▲" to enter the temperature calibration value, and press "1" to save the value. And then it will enter sleep time adjustment mode. If sleep time doesn't need to be adjusted, it will exit automatically 5s later.

Calibration method: Prepare the temperature tester. When the machine is in constant temperature, measure the temperature of the soldering iron nozzle to be corrected and keep records (Please apply some soldering material on the soldering iron nozzle so that they can contact closely). Set the measuring temperature as T1 (such as 350°C) and the display temperature as T2 (such as 335°C); the temperature should be calibrated to:  $T1 (350^{\circ}\text{C}) - T2 (335^{\circ}\text{C}) = 15^{\circ}\text{C}$ ;

### Notes:

The temperature can only be calibrated in working mode; namely when there is no holder available, the temperature cannot be calibrated.  
Temperature calibration of Channel 2 (or 3): The operation method is the same with that of Channel 1. That is, switch to the channel required for temperature calibration and then conduct corresponding operation.

### Sleep time setting

After temperature calibration, it will directly enter sleep time setting, or press "1" after entering the temperature calibration mode to enter sleep time setting mode. The status bar will show "SLP" "GT-Y130" (current holder model). The main window will show the sleep time (default value at delivery is 0 minute, no sleep). Press "▼" or "▲" key to enter sleep time. Press "1" to save the setting.



SLP sleep setting dialog (10minutes sleeping duration in the above figure. If the soldering station is not used within 10 minutes, the electrical soldering station will automatically enter into sleeping state.)



SLP sleeping status indication window (sleeping temperature drops to 200°C when the setting value is higher than 200°C).



SLP sleeping status indication window (sleeping temperature keep to setting value when the setting value is less than 200°C).

Sleep awakening: When Channel 1 is an electrical soldering station, and if the electrical soldering station needs to be re-started in sleep mode, press "1" to enter normal working status.

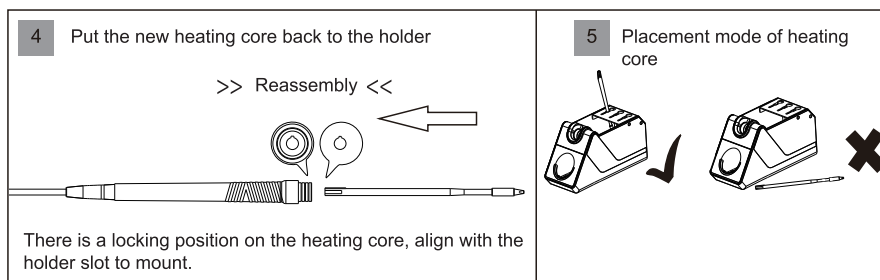
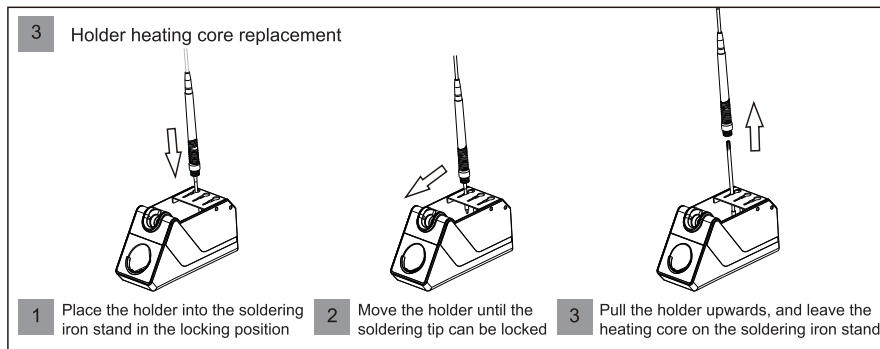
#### Notes:

Sleep setting of Channel 2: The operation method is the same with that of Channel 1. That is, switch to the channel required for sleep setting and then conduct corresponding operation.

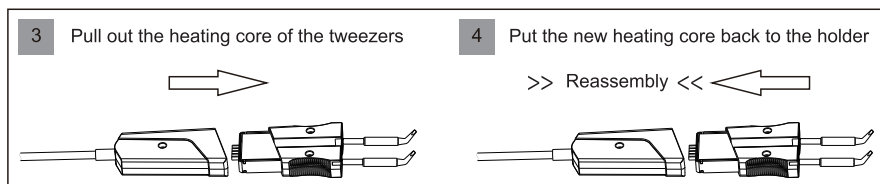
### Restore factory settings

When the power switch is off, long press "▼" and "▲", and then turn on the power switch to restore factory settings.

### GT-Y130 GT-Y150 soldering iron heating core replacement

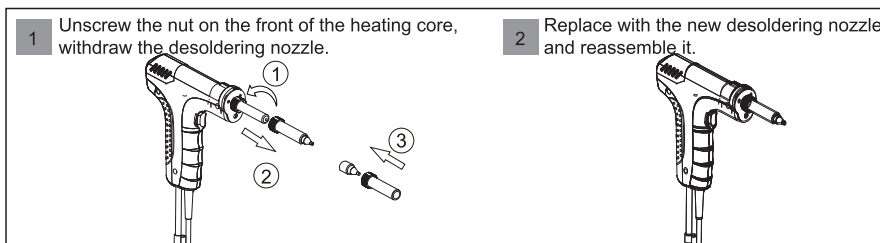


### GN-N100 tweezers heating core replacement



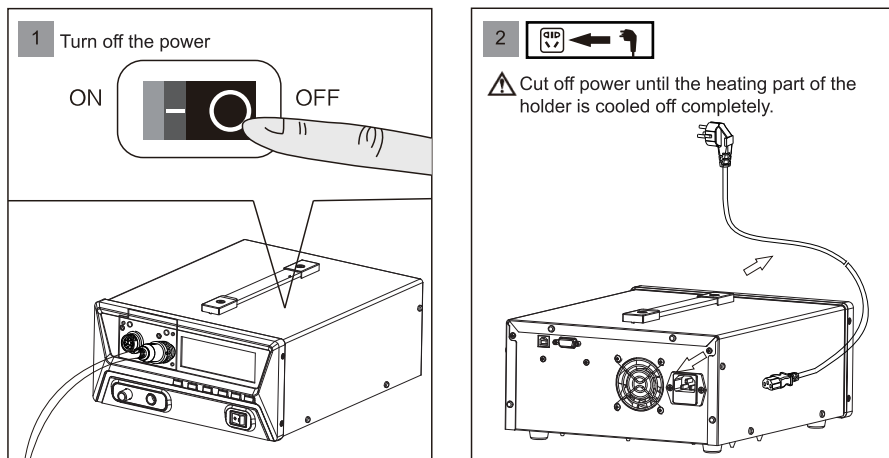
Tips: After replacement of heating core, please verify the temperature accuracy, and use temperature compensation setting items to compensate and calibrate temperature error. Do not directly place the uncooled heating core on the workbench, to avoid scald or fire.

### GT-X150 desoldering gun desoldering nozzle replacement

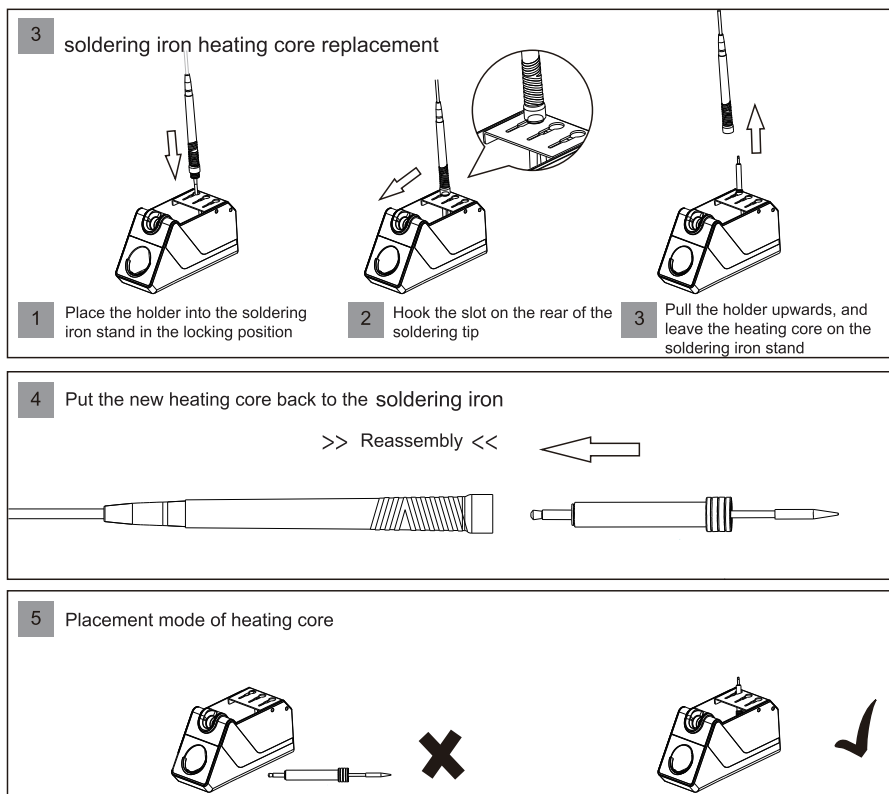




## Replacement of Heating Core

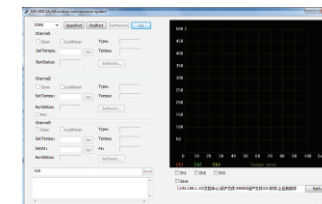


## GT-Y050 soldering iron heating core replacement



## Main unit computer software download link

[www.atten.com\(EN\)](http://www.atten.com(EN))  
[www.atten.com.cn\(CN\)](http://www.atten.com.cn(CN))



## Serial user command (Main unit computer software shall be equipped)

1. c?0 Help
2. C00 Restore factory settings
3. C10 Check the temperature of all channels  
 C11 Check the temperature of Channel 1  
 C12 Check the temperature of Channel 2  
 C13 Check the temperature of Channel 3
4. C20 Open all channels  
 C21 Open Channel 1  
 C22 Open Channel 2  
 C23 Open Channel 3  
 C24 Open desoldering pen
5. C30 Close all channels  
 C31 Close Channel 1  
 C32 Close Channel 2  
 C33 Close Channel 3  
 C34 Close desoldering pen

Indicates the data to be filled in by the user, \_ indicates no need of filling

6. C41 Temperature unit selection °C 0; °F 1  
 C42 Tone switch On 0; Off

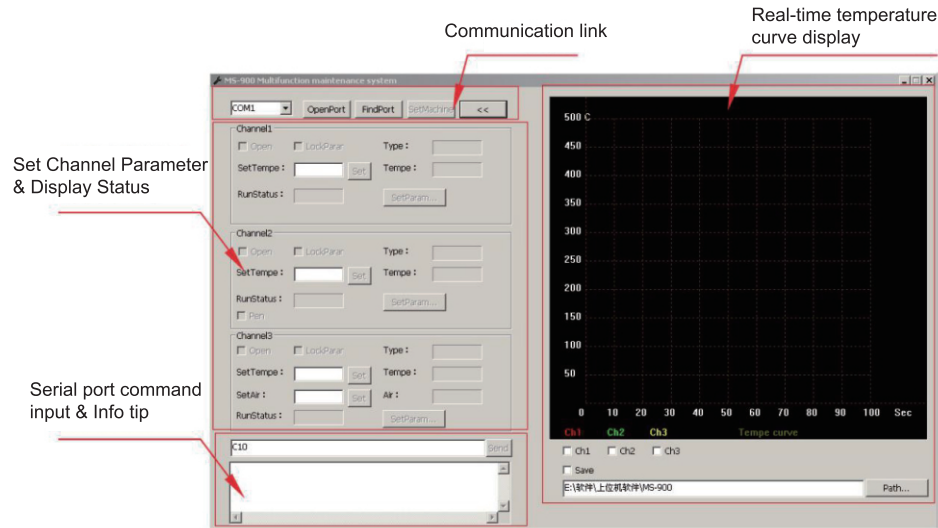
If the input value has less than 3 digits, use 0 to supplement;

7. C51 Temperature value setting of Channel 1 (150 - 500°C/302 - 932°F)  
 C52 Temperature value setting of Channel 2 (150 - 500°C/302 - 932°F)  
 C53 Temperature value setting of Channel 3 (150 - 500°C/302 - 932°F)  
 C54 Air flow value setting of Channel 3 (150 - 500°C/302 - 932°F)
8. C61 Temperature calibration value of Channel 1(-50 - 50°C/-90 - 90°F)  
 C62 Temperature calibration value of Channel 2(-50 - 50°C/-90 - 90°F)  
 C63 Temperature calibration value of Channel 3(-50 - 50°C/-90 - 90°F)
9. C71 Sleep time setting of Channel 1 (0 - 120)(default value at delivery is 0 minute, no sleep)  
 C72 Sleep time setting of Channel 2 (0 - 120)(default value at delivery is 0 minute, no sleep)
10. C80 Parameter locking for all channels Unlock 0 Lock 1  
 C81 Parameter locking for Channel 1 Unlock 0 Lock 1  
 C82 Parameter locking for Channel 2 Unlock 0 Lock 1  
 C83 Parameter locking for Channel 2 Unlock 0 Lock 1

## 1. Software running system

The PC software can be used under the following operating systems: win XP win 7 win 10

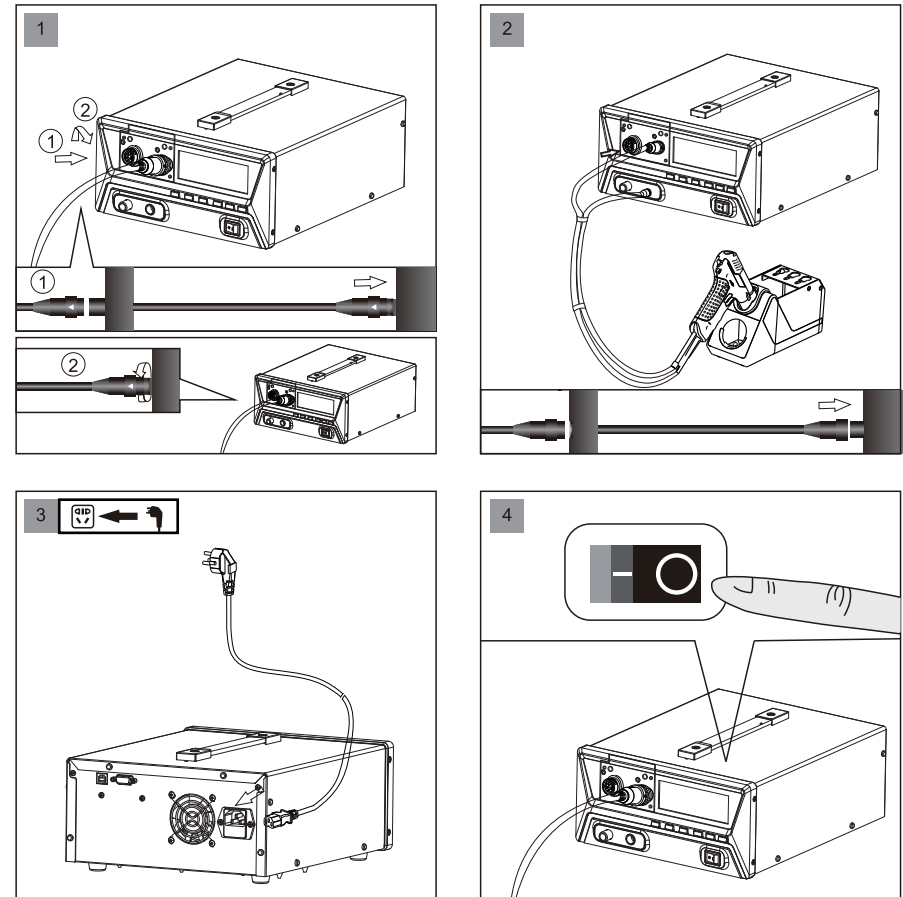
## 2. Interface description



### Software interface include four function modules

1. Communication module: Display communication port, automatic search port and automatic connection, communication switch, unfold and hidden real-time communication curve.
2. Channel parameter setting and status display module: Display real-time parameters information of each channel and parameter settings.
3. Serial port command input / info tip module: Input serial command manually (serial command to see the instructions on page 11) and info tip, including errors, important operating hints, etc.
4. Real-time temperature curve display module: Select real-time temperature curve chart of each channel.

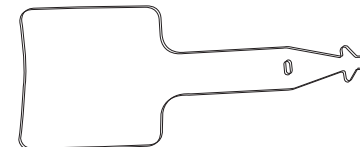
## Connecting Mode



**Notes:** When plugging and unplugging during soldering, do remember to cut off power, so as to avoid damage to the main unit !

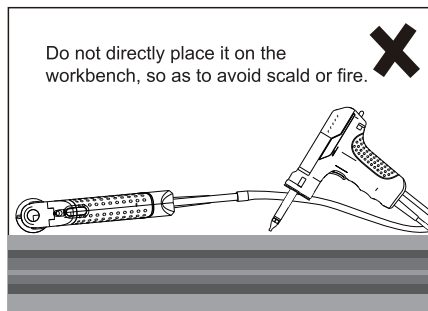
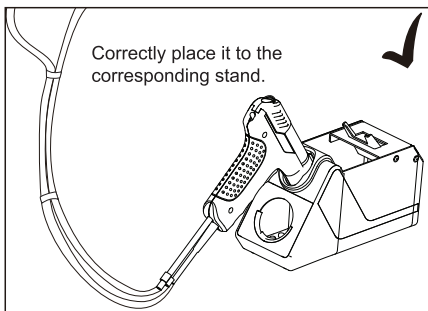
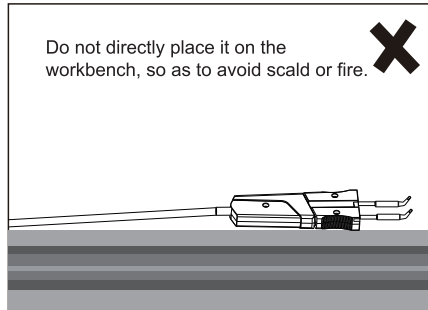
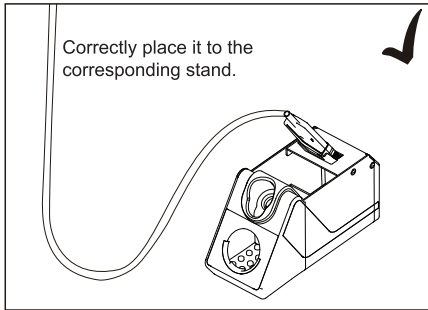
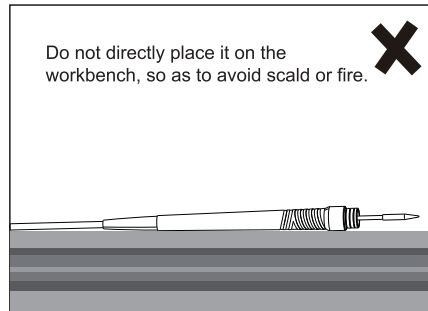
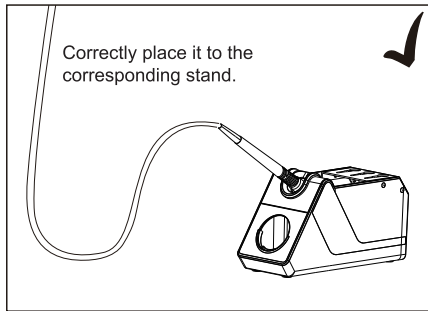
### Anti-ironing mat

If you need to change the heater, soldering tip or suction nozzles without knowing the heating situation, you can use the anti-hot pad to change them. In case of non-emergency, it is recommended to replace the accessories after the temperature drops back to normal temperature to avoid burns.



## Correct Placement Mode of the soldering iron

**Warning:** For the sake of your safety, when the product is not in use, please place the holder to the corresponding stand.



## 3. Operation Instruction

1. Double-click the icon (right click + open file) to open the MS - 900 PC software .
  2. Click FindPort , Software search port and connect device automatically, click Close to close the connection. (figure 1)
- Click SetMachine to set buzzer, temperature unit, factory default setting. (figure 2)
- Click << to open or close the right side of real-time curve and read-write data module.

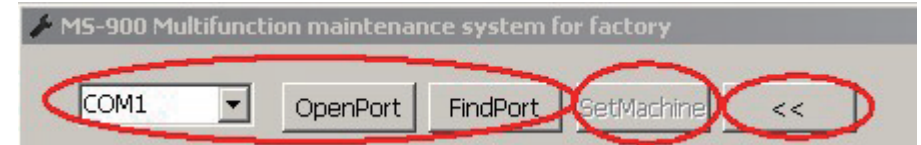


figure 1

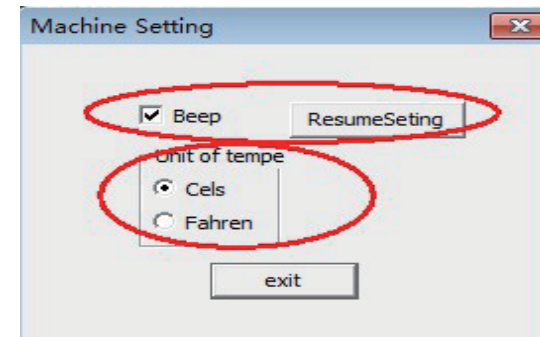
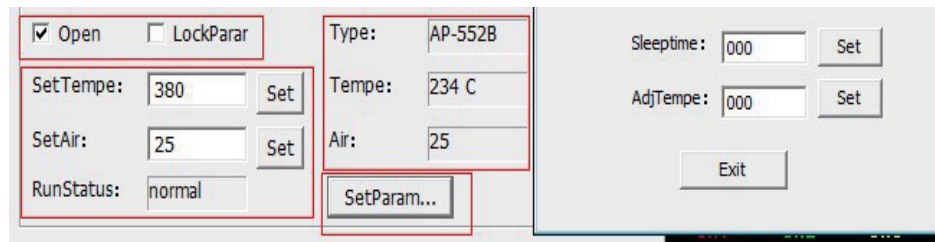
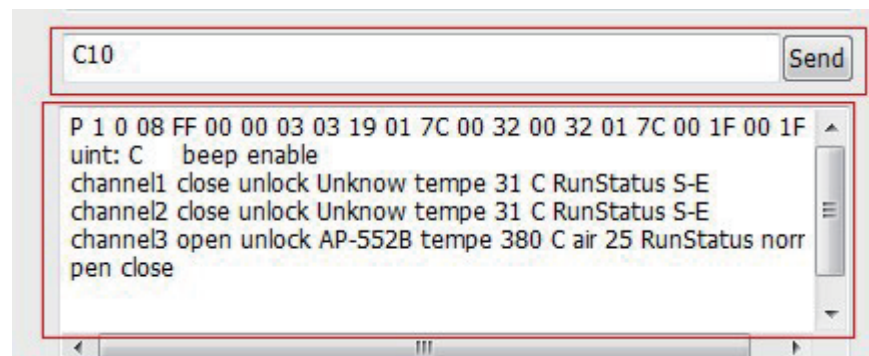


figure 2

3. Tick Open to open the channel, Tick LockParar to lock the channel temperature .  
 SetTempe area set handle temperature value (150 °C -- 480 °C) for the channel .  
 SetAir area set air volume for hot air gun (No air volume setting function in soldering iron channel).  
 RunStatus display the real-time status of equipment operation (normal work display Normal, no soldering iron display S-E, auto-sleep display SLP, channel off display OFF).  
 Type display the handle type of channel; Tempe display the temperature value of the handle; Air display the Air volume value.  
 Click SetOararm , set auto-sleep time and temperature compensation , need 3 digits to display , so when set the auto- sleep time or temperature to "10", you have to input "010".



4. Area 1 can be manually entered in a serial command (specific serial command to see the instructions on page 11 ), click Send, info tip appears in the message box of area 2.  
 Note: Message box display a variety of operation info tip and error info (alarm message).



5. CH1 ,CH2 and CH3 means of different channel , Click it and display the real-time temperature curve of each channel in the above areas.  
 Click Path , set save address of the real-time temperature curve, Click Save , real-time temperature curve save as excel form file to the setting address.

