

HAKKO 937

SOLDERING STATION

電焊臺

Instruction Manual

使用說明書

日本白光牌

English

Merci d'avoir choisi la station de soudage
HAKKO 937.

Veuillez lire le présent manuel avant d'utiliser l'
unité HAKKO 937. Rangez le manuel en lieu sûr,
facile d'accès pour des références ultérieures.

⚠ CAUTION

When seeking tip replacements, select only "HAKKO"
genuine soldering iron tips that are intended for your
particular model of soldering iron (Please refer to the
instruction manual).
If an incompatible tip or a tip made by another manufacturer
is used, the original performance of the soldering iron may
not be obtained. Furthermore, the heating element, P.W.B.
and transformer may be damaged.

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感謝您購買HAKKO 937電焊臺。使用HAKKO 937前，請詳
閱本使用說明書，閱後請妥為收存，以備日後查閱

⚠ 警告

當您需要更換焊咀或其他配件時，請選擇正確原裝白光配
件。如閣下疏忽選擇錯誤，將會引起不必要的嚴重效果。

- * 焊咀可能不升溫或令正常溫度不穩定。
- * 會令發熱元件壽命縮短。
- * 焊臺內的電路板及變壓器容易發生故障。
- * 溫度不正常令焊咀受損不上錫，縮短壽命，影響操作。
- * 如選擇仿造配件安裝在原裝白光產品上，將嚴重影響該產
品所有功能。

****對於選擇不正規白光產品或仿造產品及任何配件而引起任
何問題與本公司無關。特此聲明。**

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中 文

Packing List

Please check the contents of the HAKKO 937 package and confirm that all the items listed below are included.

HAKKO 937 Station.....	1	HAKKO Iron Holder (With Cleaning Sponge)	1
Card.....	1	Coupling Band	1
Soldering Iron (HAKKO 900 (S), 907 or 908)	1	Instruction Manual	1

Precautions



WARNING

Warnings and cautions are placed at critical points in this manual to direct the operator's attention to significant items. They are defined as follows



WARNING: Failure to comply with a WARNING may result in serious injury or death.



CAUTION : Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved.



CAUTION

When the power is on, the tip temperature is between 200°C/392°F and 480°C/896°F. Since mishandling may lead to burns or fire, be sure to comply with the following precautions.

- Do not touch the metallic parts near the Tip.
- Do not use the product near flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- Turn the power off while taking breaks and when finished using the unit.
- Before replacing parts or storing the unit, turn the power off and allow the unit to cool to room temperature.

To prevent damage to the unit and ensure a safe working environment, be sure to comply with the following precautions.

- Do not use the unit for applications other than desoldering.
- Do not rap the soldering iron against the work bench to shake off residual solder, or otherwise subject the iron to severe shocks.
- Do not modify the unit.
- Use only genuine HAKKO replacement parts.
- Do not wet the unit or use the unit when your hands are wet.
- The soldering process will produce smoke, so make sure the area is well ventilated.
- While using the unit, don't do anything which may cause bodily harm or physical damage.

* This product is protected against an electro-static discharge.

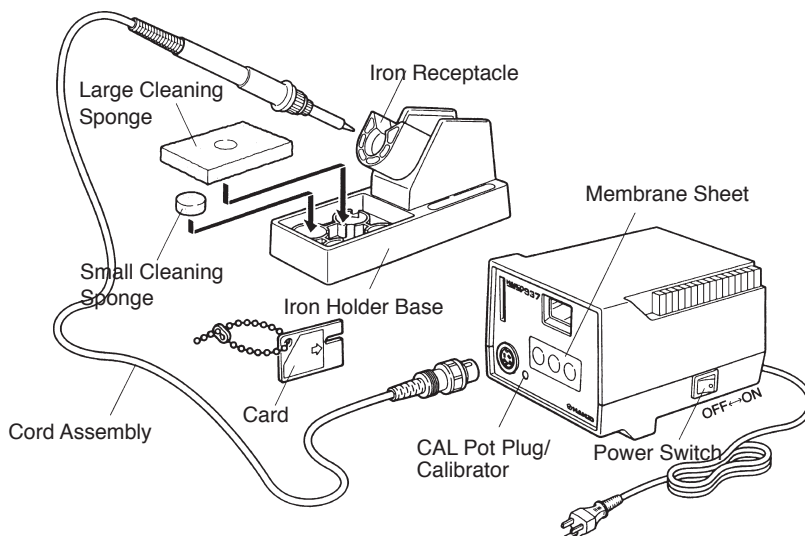


CAUTION:

This product includes such features as electrically conductive plastic parts and grounding of the handpiece and station as measures to protect the device to be soldered from the effects of static electricity. Be sure to observe the following instructions:

1. The handle and other plastic parts are not insulators, they are conductors. When replacing parts or repairing, take sufficient care not to expose live electrical parts or damage insulation materials.
2. Be sure to ground the unit during use.

Names of Parts



Setting up & Operating the HAKKO 937

CAUTION

The sponge is compressed. It will swell when moistened with water. Before using the unit, dampen the sponge with the water and squeeze it dry. Failure to do so may result in damage to the soldering tip.

A. Iron Holder

1. Small Cleaning Sponge
Dampen the small cleaning sponge with water and then squeeze it dry. Place it in one of the 4 openings of the iron holder base.

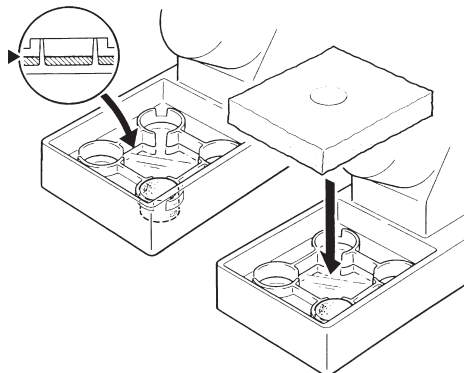
2. Add water to approximately the level as shown. The small sponge will absorb water to keep the larger sponge above it wet at all times.

Note: The large sponge may be used alone (w/o small sponge & water).

3. Dampen the large cleaning sponge and place it on the iron holder base.

Note: The iron receptacles for the 900 (S) and the 907/908 soldering irons are different.

Be sure to use the proper one for each type of soldering iron. (Refer to Parts List.)

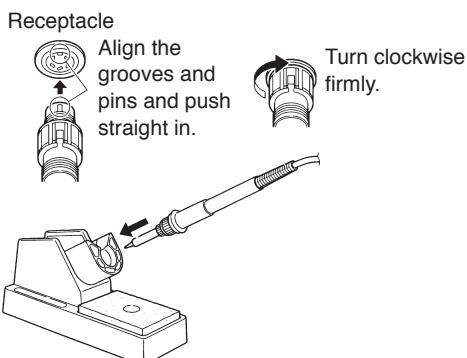


CAUTION

Be sure to turn off the power switch before connecting or disconnecting the soldering iron. Failure to do so may damage the P.W.B..

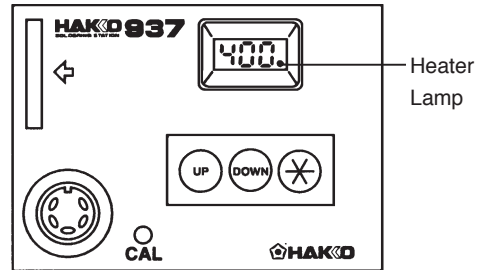
B. Connections

1. Connect the cord assembly to the receptacle.



2. Place the soldering iron in the iron holder.
3. Plug the power cord into the power supply. Be sure to ground the unit.

- Turn the power switch to on.
The temperature is preset at 400°C at the factory.
The heater lamp flickers when the temperature has stabilized.
- Press the  button to display the preset temperature. It will be displayed for two seconds.



C. Setting the Temperature

⚠ CAUTION

Be sure to insert the card into the card slot. While setting the temperature the heating element is off.

Example: 400°C to 350°C

- 

↓ *Insert the card.*


- Press  or  button.*

↓



↓

Press  button once.
- 

↓

Press  or  button.

↓



↓

Press  button once.
- 

↓

Press  button once.



- Insert the card into the card slot in the station. The left-most digit (the 100's digit) in the display will flash. This indicates that the station is in temperature setting mode and that the 100's digit can be adjusted.

- Select the desired value for the 100's digit.
Using the  or  button will change displayed value as follows.

→ 2 ↔ 3 ↔ 4 ←

Press the  button when the desired value is displayed.

This will cause the middle digit (the 10's digit) in the display begin flashing.

- Select the desired value for the 10's digit.
Using the  or  buttons will change the displayed value as shown below.

→ 0 ↔ 1 ↔ 2 ↔ 3 ↔ 4 ↔ 5 ↔ 6 ↔ 7 ↔ 8 ↔ 9 ↔ 0 ←

Press the  button.

The right (the 1's digit) will then begin flashing to indicate that the 1's digit can be set.

- Select the desired value for the 1's digit.
Using the  or  buttons will change the displayed value as shown above for the 10's place selection. Press the  button.
Here, pressing the  button....
a) enters the temperature setting into the internal memory,
b) displays the temperature setting, and
c) starts heater control.

Note: If you turn off the power switch during the temperature setting, setting value will not store in the memory.

To change the temperature setting when the card is left in the station, refer to the followings.

1. Push the  button and hold it down for at least one second.
First the present temperature setting will be displayed, and then the 100's place digit will begin to flash. This flashing indicates that the temperature setting mode has been entered. After the flashing begins, proceed with the setting the temperature.
2. IF the  button is pressed for less than one second, the present temperature setting will be shown for two seconds and then the display will return to showing the tip temperature.

The Card

1. After setting the temperature, remove the card. The pre-set temperature cannot be changed until the card is reinserted, even if the power switch is turned off. This allows you
 - a. To turn the power off and on without having to reset the temperature each time.
 - b. Accurate and safe temperature control.
2. Any HAKKO 937 card can be used with any HAKKO 937 station.
3. Even if the card is left in the station, the HAKKO 937 will operate normally. If the power is turned off while the card is inserted, the soldering iron will heat to the previously set temperature.

Stacking Stations

For greater convenience and soldering efficiency, two stations can be securely stacked.

Parameters

The HAKKO 937 has the following parameters. Parameter settings can be adjusted.

1. °C or °F temperature display selection
2. Heater-error temperature-tolerance
3. Display of room temperature compensation value (test mode)

Once parameter-input mode has been entered, set the parameters in the order shown below. After all the parameters have been set, normal operation will be resumed.

Parameter Input Mode

1. Centigrade or Fahrenheit Temperature Display

1. Turn off the power switch. Press and hold the **UP** and **DOWN** buttons simultaneously, then turn on the power switch.
2. Continue holding down the **UP** and **DOWN** buttons until the display shows C (for Centigrade) or F (for Fahrenheit).
3. When the display shows C or F, the station is in parameter-input mode.

Enter parameter-input mode. Pressing the **UP** and **DOWN** buttons will cause C and F to be displayed alternately. Press **✖** to select either C or F.

After selecting C or F for the temperature display, the heater-error temperature will be displayed with the 100's digit flashing.

2. Heater-error Temperature-tolerance

See Page 9. Heater Error. Set the heater-error temperature-tolerance in the same manner as described in "Setting the Temperature" (Page 3. steps 2~4). Be sure to use a value in the allowable range:

Range of allowable heater-error temperatures

For °C: 30 - 150°C

For °F: 60 - 300°F

If a temperature value outside of this range is selected, the display will return to flashing the 100's place. If this happens, reenter a correct temperature value.

After setting the heater-error temperature-tolerance, the display will show the room temperature compensation value (test mode).

3. Room temperature compensation value (test mode)

The display will not blink nor will the heater receive power.

The room temperature compensation value is the measured temperature of the soldering iron tip. This function will be used later to calibrate the tip temperature. (See "Calibration of Iron Temperature" on page 6.)

No inputs are made here. Press **✖** to complete parameter input. The soldering temperature setting will be displayed for 2 seconds, after which power will be supplied to the heater and normal temperature control will begin.

Calibration of Iron Temperature

Soldering iron should be recalibrated after changing the iron, replacing the heating element and the tip. There are two methods for recalibrating the iron temperature

- 1: Calibrating with a tip thermometer.
- 2: Calibrating with a room thermometer.

Note: HAKKO recommends method 1 for greater accuracy.

A. Calibrating with a Tip Thermometer.

1. Set the temperature at 400°C (750°F).
 2. Wait till the temperature stabilizes and remove the CAL pot plug.
 3. When the temperature stabilizes, use a regular or small cross point screwdriver to adjust the screw (marked CAL at the station) until the tip thermometer indicates a temperature of 400°C (750°F). Turn the screw clockwise to increase the temperature and counterclockwise to reduce the temperature.
Attach the CAL pot plug.
- * We recommend the HAKKO 191/192 thermometer for measuring the tip temperature.

B. Calibrating with a Room Thermometer (Test Mode)

1. Allow the HAKKO 937 to cool to room temperature for one hour.
2. Press and hold down buttons **UP** and **DOWN** simultaneously and turn the power switch on. (See the page parameter.)

CAUTION

Should you make a mistake during procedure 2 and 3, the station will start up normally and the heating element will begin warming up. Should this happen, turn the station off and wait until it has cooled again to room temperature.

3. Please proceed to Display of room temperature compensation value (test mode). This value is the measured temperature of the soldering iron tip.
4. Use a regular or small cross point screwdriver to adjust the screw (marked CAL at the station) until the display indicates the room temperature plus or minus the value in the calibration chart on page 7.
How to use calibration chart; If you are calibrating the 900M-T-LB at the room temperature of 22°C (70°F), adjust the CAL potentiometer until the digital display reads 20 (66).

$$\begin{array}{ccccc} 22 & (70) & - & 2 & (4) & = & 20 & (66) \\ \text{Room temp.} & & & \text{Chart Value} & & & \text{Digital display} \end{array}$$

5. Press **✱** button to complete the calibration. After **✱** button is pressed, power will supplied to the heater and normal temperature control will begin.

Calibration Chart

Example : To calibrate the 900M-T-LB tip at a room, temperature of 22°C (70°F), adjust the CAL potentiometer until the digital display reads 20 (66).

Room Temperature : 22°C (70°F)

Compensation Value : -2°C (-4°F)

Digital Display : 20°C (66°F)

900S		907		908	
Tip No.	Compensation Value	Tip No.	Compensation Value	Tip No.	Compensation Value
900S-T-1.2D	0	900M-T-0.8D	0	900L-T-LB	0
900S-T-1.6D	0	900M-T-1.2D	+2°C (+4°F)	900L-T-2B	0
900S-T-2C	0	900M-T-1.6D	0	900LT-2.4D	0
900S-T-1C	0	900M-T-2.4D	0	900L-T-3.2D	0
900S-T-B	0	900M-T-3.2D	0	900L-T-2C	-5°C (-9°F)
900S-T-1	0	900M-T-1.2LD	0	900L-T-2CF*	-5°C (-9°F)
		900M-T-SB	0	900L-T-3C	0
		900M-T-B	0	900L-T-3CF*	0
		900M-T-LB	-2°C (-4°F)	900L-T-4C	0
		900M-T-0.5C	0	900L-T-4CF*	0
		900M-T-0.8C	-2°C (-4°F)	900L-T-5C	0
		900M-T-1C	0	900L-T-5CF*	0
		900M-T-1CF*	0	900L-T-I	-5°C (-9°F)
		900M-T-1.5CF*	0	900L-T-K	+5°C (+9°F)
		900M-T-2C	0		
		900M-T-2CF*	0		
		900M-T-3C	0		
		900M-T-3CF*	0		
		900M-T-4C	0		
		900M-T-4CF*	0		
		900M-T-K	+7°C (+12°F)		
		900M-T-R	0		
		900M-T-RT	0		
		900M-T-SI	0		
		900M-T-I	-2°C (-4°F)		
		900M-T-H	-5°C (-9°F)		
		900M-T-1.8H	-2°C (-4°F)		
		900M-T-S4	+4°C (+7°F)		

Tip Care and Use

● Tip Temperature -----

High soldering temperatures can degrade the tip. Use the lowest possible soldering temperature. The excellent thermal recovery characteristics ensure efficient and effective soldering even at low temperatures. This also protects the soldered items from thermal damage.

● Cleaning -----

Clean the tip regularly with a cleaning sponge, as oxides and carbides from the solder and flux can form impurities on the tip. These impurities can result in defective joints or reduce the tip's heat conductivity.

When using the soldering iron continuously, be sure to loosen the tip and remove all oxides at least once a week. This helps prevent seizure and reduction of the tip temperature.

● When Not in Use -----

Never leave the soldering iron sitting at high temperature for long periods of time, as the tip's solder plating will become covered with oxide, which can greatly reduce the tip's heat conductivity.

● After Use -----

Wipe the tip clean and coat the tip with fresh solder. This helps prevent tip oxidation.

Maintenance

Inspect and Clean the Tip

CAUTION

Never file the Tip to remove oxide.

1. Set the temperature to 250°C (482°F).
2. When the temperature stabilizes, clean the tip with the cleaning sponge and check the condition of the tip.
3. If there is black oxide on the solder-plated portion of the tip, apply new solder (containing flux) and wipe the tip on the cleaning sponge. Repeat until the oxide is completely removed. Coat with new solder.
4. If the tip is deformed or heavily eroded, replace it with a new one.

Tips

The tip temperature will vary according to the shape of the tip. The preferred method of adjustment uses a tip thermometer. (See "Calibration of Iron Temperature" on page 6.)

A less accurate method involves adjusting the temperature according to the adjustment value for each tip.

Example: When using a 900M-T-H tip at 400°C (750°F), the difference between this tip and a 900M-T-B tip is -20°C (-36°F).
Set the temperature to 420°C (786°F).

Refer to the chart for the correct adjustment values on page 31.

Error Messages

Various error messages will be displayed when there is a problem with the HAKKO 937 unit. If the following message is displayed, see the troubleshooting guide.

System Error

After the power has been turned on, the system checks the memory and the programs. If an abnormality is found,  will be displayed, and all operations will be completely stopped.

Sensor Error

If there is a possibility of a failure in the sensor or anywhere in the sensor circuit,  will be displayed and power to the soldering iron will be cut off.

Heater Error

(Flashing of the Temperature Display)

If power is being sent to soldering iron and the tip temperature goes below the heater-error temperature-tolerance setting, the temperature display will flash. This indicates the possibility of a heater malfunction.

For example, assume the temperature setting is 400°C and the heater-error temperature-tolerance is 50°C. If, even though the heater is receiving power, the temperature of the soldering iron goes below 350°C, the display will begin to flash indicating a possible heater malfunction.

Example: $400 - 50 = 350 \rightarrow$ The display will begin to flash.

Note: (If the temperature begins to rise again, the display will stop flashing - even if the displayed temperature is below 350°C.)

Before Servicing...

WARNING

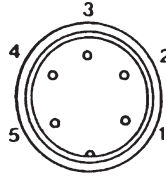
- * Disconnect the power plug before servicing. Failure to do so may result in electric shock.
- * If the power cord is damaged, it must be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid hazard.

Trouble Shooting Guide

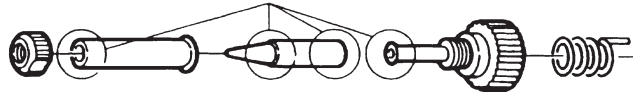
Problem 1. The unit does not operate.	Check 1. Is the fuse blown? - Determine why the fuse blew and eliminate the cause, then replace the fuse. a. Is the inside of the iron short-circuited? b. Is the grounding spring touching the heating element? c. Is the heating element lead twisted and short-circuited? Check 2. Is the power cord broken? - Replace with new one.
Problem 2. The tip does not heat up. Sensor or Heater Error is displayed.	Check 3. Is the power cord and/or connecting plug disconnected? - Connect it.' Check 4. Is the soldering iron cord broken? - See how to check the breakage of cord assembly. Check 5. Is the heating element broken? - See how to check the breakage of heating element.
Problem 3. The tip heats up intermittently.	→ Check 4
Problem 4. Solder will not wet the tip.	Check 6. Is the tip temperature too high? - Set an appropriate temperature. Check 7. Is the tip cleaned? - See "Tip Care and Use".
Problem 5. The tip temperature is too low.	Check 8. Is the tip coated with oxide? - See "Inspect and clean the tip". Check 9. Is the iron calibrated correctly? - Please recalibrate.
Problem 6. A system error is displayed.	Check 10. Please contact your nearest HAKKO representative.
Problem 7. Heater errors are displayed frequently.	Check 11. Is the tip too small compared to the items to be soldered? - Use a heavier tips. - Is the setting of heater-error temperature-tolerance too low? - Increase the value of the setting.

Checking for breakage of the heating element and cord assembly

Disconnect the plug and measure the resistance value between the connecting plug pins as follows.
If the values of 'a' and 'b' are outside the above value, replace the heating element (sensor) and /or cord assembly. Refer to Procedures 1 and 2.
If the value of 'c' is over the above value, remove the oxidization film by lightly rubbing with sand-paper or steel wool the point as shown.

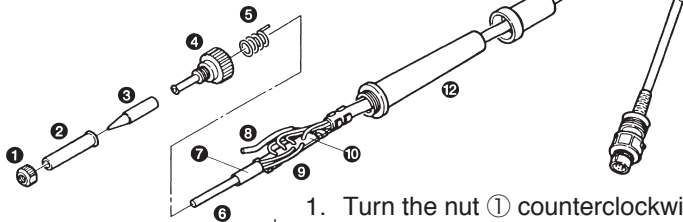


a.	Between pins 4 & 5 (Heating Element)	2.5 – 3.5 Ω (Normal)
b.	Between pins 1 & 2 (Sensor)	43 – 58 Ω (Normal)
c.	Between pins 3 & Tip	Under 2 Ω



Disassembling the 907/908

1. Broken Heating Element



1. Turn the nut ① counterclockwise and remove the tip enclosure ②, the tip ③.
2. Turn the nipple ④ counterclockwise and remove it from the iron.
3. Pull both the heating element ⑥ and the cord assembly ⑪ out of the handle ⑫. (Toward the tip of the iron.)
4. Pull the grounding spring ⑤ out of the D-sleeve.

Heating Element (Red) Sensor (Blue)



Measure when the heating element is at room temperature.

1. Resistance value of heating element (RED) 2.5 – 3.5 Ω
2. Resistance value of sensor (BLUE) 43 – 58 Ω

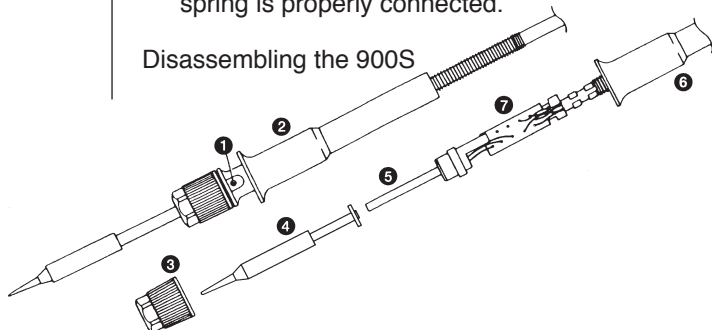
If the resistance value is not normal, replace the heating element.

(Refer to the instructions included with the replacement part.)

After replacing the heating element.

1. Measure the resistance value between 1) pins 4 & 1 or 2) pins 5 & 1 or 2. If it is not ∞ , the heating element and sensor are touching. This will damage the P.W.B.
2. Measure the resistance value 'a', 'b', and 'c' to confirm that the leads are not twisted and that the grounding spring is properly connected.

Disassembling the 900S



2. Broken Soldering Iron Cord

There are two methods of testing the soldering iron cord.

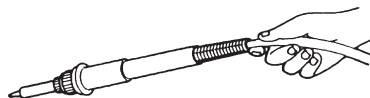
1. Slide the handle cover ② toward the cord and remove the screw ① securing the heating element.
2. Turn the nut ③ counterclockwise and remove it.
3. Remove the tip ④.
4. Pull both the heating element ⑤ and the cord toward the tip of the iron and out of the handle ⑥.

Measure the resistance values at the sensor and the heating element of the terminal board.

The resistance value should be the same as for the 907, 908. To replace the heating element, refer to the instructions included with the replacement part.

1. Turn the unit ON and set the temperature control knob to 480°C (896°F). Then wiggle and kink the iron cord at various locations along its length, including in the strain relief area.

If the LED heater lamp flickers, then the cord needs to be replaced.



CAUTION

The LED heater lamp will flicker even with a normal Iron cord if the temperature reaches 480°C (896°F).

2. Check the resistance between the pin of the plug and the wire on the terminal.

Pin 1: Red Pin 2: Blue Pin 3: Green Pin 4: White Pin 5: Black

The value should be 0 Ω. If it is greater than 0 Ω or is ∞, the cord should be replaced.

3. Replacing the Fuse

Refer to the drawing on the parts list. Desolder the blown fuse and remove it. Solder on a new one.

Be sure to use only genuine HAKKO replacement parts.

Specifications

Name	HAKKO 937
Power Consumption	60W

Station

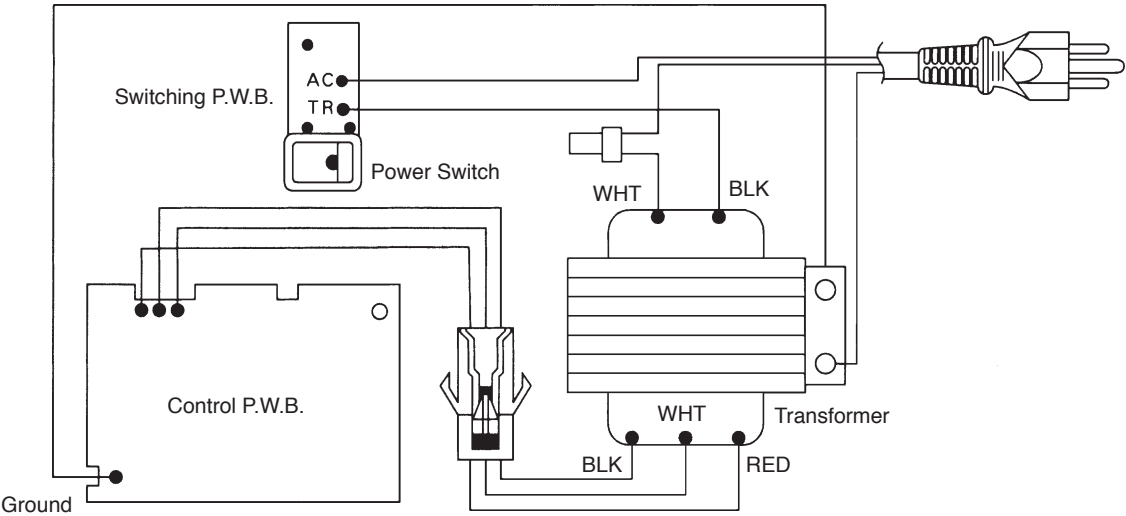
Name	937 Station ESD
Output Voltage	24V AC
Temperature Range	200°C - 480°C / 400°F - 899 °F
Dimensions	120(W) x 93(H) x 140(D) mm / 4.7 x 3.7 x 5.5 in.
Weight (w/o Cord)	1,300 g (2.9 lbs.)

Soldering Iron

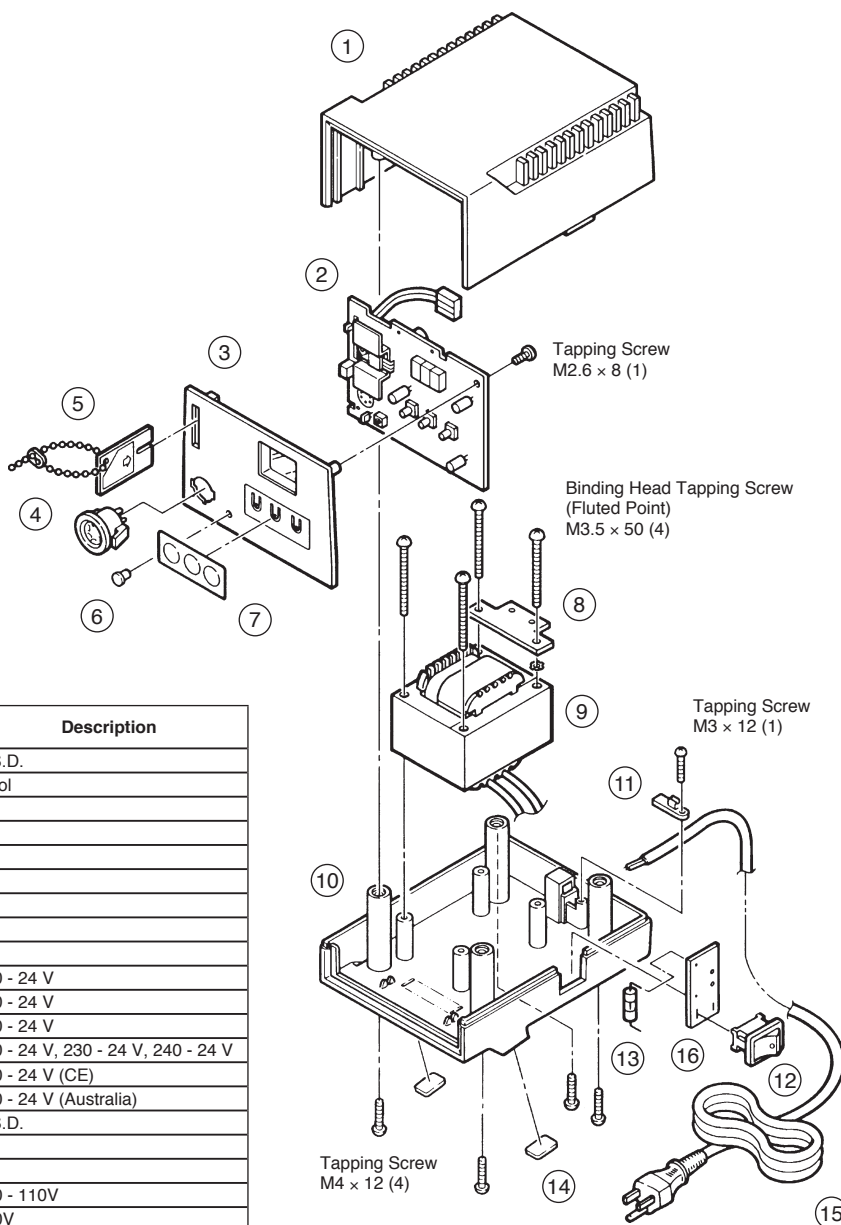
	900S-ESD	907-ESD	908-ESD
Power Consumption	24V AC-50W		
Tip to Ground Resistance	Under 2 Ω		
Tip to Ground Potential	Under 2mV (TYP.; 0.6 mV)		
Heating Element	Ceramic heater		
Cord Assembly	1.2 m (4 ft.)		
Total Length (w/o Cord)	176 mm (7 in.)	190 mm (7.5 in.)	200 mm (7.9 in.)
Weight (w/o Cord)	25 g (0.06 lbs.)	44 g (0.09 lbs.)	54 g (0.12 lbs.)

- The tip temperature was measured using HAKKO 191 thermometer.
- Specifications and design subject to change without notice.

Wiring Diagram



Parts List

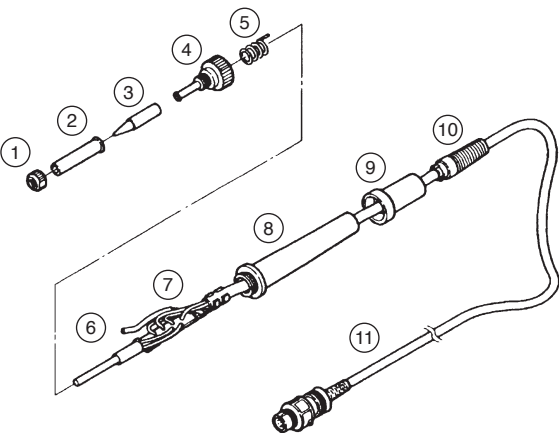


Item No.	Part No.	Part Name	Description
①	B2034	Upper Case	E.S.D.
②	B2036	P.W.B. for Temp. Control	
	B2322	P.W.B.	CE
③	B2035	Panel	
④	B2006	Receptacle	
⑤	B2037	Card	
⑥	B2018	CAL Pot Plug	
⑦	B2047	Membrane Sheet	
⑧	B2227	Grounding plate	
⑨	B2038	Transformer	100 - 24 V
	B2039	Transformer	110 - 24 V
	B2040	Transformer	120 - 24 V
	B2041	Transformer	220 - 24 V, 230 - 24 V, 240 - 24 V
	B2331	Transformer	230 - 24 V (CE)
	B2302	Transformer	240 - 24 V (Australia)
⑩	B2002	Lower Case*	E.S.D.
⑪	B2015	Cord Stopper	
⑫	B1084	Power Switch	
⑬	B2007	Fuse, 125V - 2A	100 - 110V
	B2224	Fuse, 2A (UL)	120V
	B2008	Fuse, 250V - 0.8A	220 - 240V
	B2303	Fuse, 0.63A (CE)	230V
⑭	B2016	Rubber Stopper	Set of 2
⑮	B1318	Power Cord	3 Wired Cord But No Plug
	B1319	Power Cord	3 Wired Cord & American Plug (U.S.A.)
	B2042	Power Cord	3 Wired Cord & Australian Plug
	B2043	Power Cord	3 Wired Cord & European Plug (KT)
	B2098	Power Cord	3 Wired Cord & BS Plug
	B2327	Power Cord	3 Wired Cord & European Plug (CE)
	B2328	Power Cord	3 Wired Cord & BS Plug (U.K.)
	B2486	Power Cord	3 Wired Cord & Chinese Plug
⑯	B3504	Power Cord	3 Wired Cord & American Plug
	B2103	Wiring board for switch	

* w/ Rubber Stopper

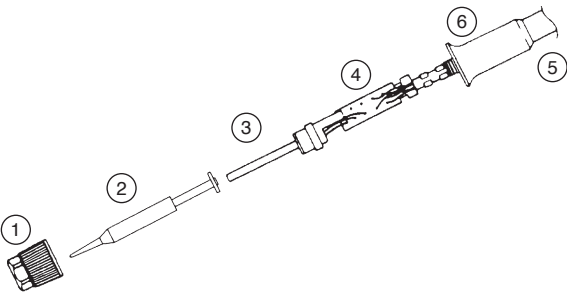
Parts List *(continued)*

907/907



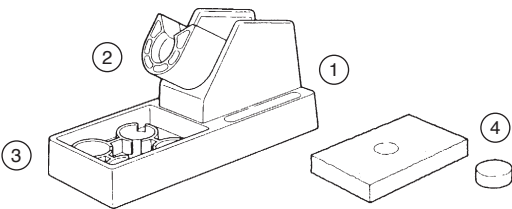
Item No.	Part No.	Part Name	Description	For Use With
①	B1784	Nut		907
	B1794	Nut		908
②	B1786	Tip Enclosure		907
	B1787	Tip Enclosure		908
③		Soldering Tip	See page 31	907
		Soldering Tip	See page 31	908
④	B2022	Nipple		907
	B2033	Nipple		908
⑤	B2032	Grounding Spring		907, 908
⑥	A1321	Heating Element	Old Part No.900M - H, 900L - H	907, 908
⑦	B2028	Terminal Board		907, 908
⑧	B2024	Handle	w/ Handle Cover,D.E.S.	907
	B2026	Handle	w/ Handle Cover, D.E.S.	908
⑨	B2027	Handle Cover		907, 908
⑩	B2031	Cord Bushing		907, 908
⑪	B2030	Cord Asse'y	D.E.S.	907, 908

900S



Item No.	Part No.	Part Name	Description
①	900S - 006S	Nut	D.E.S.
②		Soldering Tip	See page 31
③	A1322	Heating Element	Old Part No. 900S - H
④	900S - 101	Terminal Board	w/Cord Stopper
⑤	900S - 001S	Handle	w/Handle Cover, D.E.S.
⑥	900S - 034S	Handle Cover	D.E.S.
⑦	900S - 010	Cord Bushing	
⑧	900S - 039S	Cord Asse'y	D.E.S.

Iron Holder



Item No.	Part No.	Part Name	For Use With
①	C1141	Iron Holder	900S
	C1142	Iron Holder	907, 908
②	B2020	Iron Receptacle	900S
	B2021	Iron Receptacle	907, 908
③	B2019	Iron Holder Base	900S, 907, 908
④	A1042	Cleaning Sponge	900S, 907, 908

包裝清單

請檢查HAKKO 937的包裝，以證實所列清單項目正確無誤：

HAKKO 937電焊臺.....1	HAKKO 焊鐵架（包括潔海綿）.....1
插卡.....1	聯軸環.....1
焊鐵（HAKKO 900(S)或907或908型）.....1	使用說明書.....1

注意事項

警告

本說明書之注意事項，區分為如下之「警告」「注意」二者而加以表示。請充分理解其內容之後，再閱讀本文。

 **警告：** 濫用可能導致使用者死亡或負重傷。

 **注意：** 濫用可能導致使用者受傷或對涉及物體造成實質破壞。
為您本人安全著想，請嚴格遵守“注意事項”。

注意

當電源接通時，焊鐵頭溫度高於攝氏200至480度（華氏392至896度）。

鑒於濫用可能導致灼傷或火患，請嚴格遵守以下事項：

- 切勿觸及焊鐵頭附近的金屬部分。
- 切勿在易燃物體附近使用焊鐵頭。
- 通知工場其他人士，焊鐵頭極為灼熱，可能引發危險事故。休息時或完工後應關掉電源。
- 更換部件或裝置焊鐵頭時，應關掉電源，並待焊鐵頭冷卻至室溫。

為免損壞電焊臺，及保持作業環境之安全，應遵守下列事項：

- 切勿使用焊鐵頭進行焊接以外的工作。
- 切勿將焊鐵敲擊工作臺以清潔焊劑殘餘，此舉可能嚴重震損焊鐵。
- 切勿擅自改動電焊臺。
- 更換部件時，應採用HAKKO原件。
- 切勿弄濕電焊臺，或手濕時也不能使用電焊臺。
- 焊接時會冒煙，工場應有良好通風設施。
- 使用電焊臺時，不可作任何可能傷害身體或損壞物體的妄動。

* 本產品有防靜電產品處理。

注意：

本產品施有防靜電措施，對塑膠導電性，並對焊鐵部與機身部作接地，請特別留意下列注意事項：

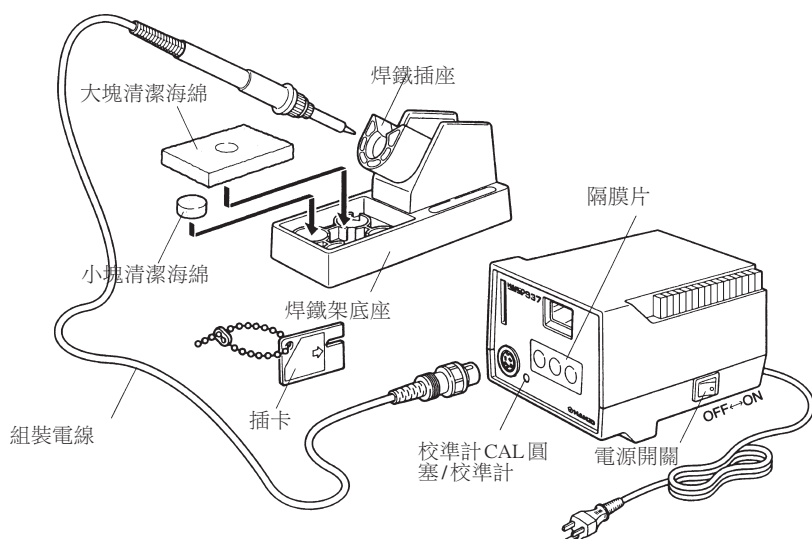
1. 手柄等之塑膠，並非絕緣物，而是有導電性塑膠，修理時請十分注意之。進行部件更換或修理時，有電部分不可露出，及切勿損傷絕緣材料。
2. 請務必接地使用之。

中國RoHS：產品中有毒有害物質或元素的名稱及含量

部件名稱	有毒有害物質或元素					
	鉛(Pb)	汞(Hg)	鎘(Cd)	六價鉻 (Cr(VI))	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
焊鐵部	×	○	○	○	○	○
插座	×	○	○	○	○	○
電路板	×	○	○	○	○	○
插頭	×	○	○	○	○	○

○：表示該有毒有害物質在該部件所有均質材料中的含量均在SJ/T 11363-2006標準規定的限量要求以下。
×：表示該有毒有害物質至少在該部件的某一均質材料中的含量超出SJ/T 11363-2006標準規定的限量要求。

部件名稱



裝置和使用HAKKO 937

⚠ 注意：

海綿是可擠壓物體，水濕則漲大。使用海綿時，先濕水再擠乾。否則會損壞焊鐵頭。

A. 焊鐵架

1. 小塊清潔海綿

將小塊清潔海綿先濕水再擠乾，置入焊鐵架底座四個小凹洞之一。

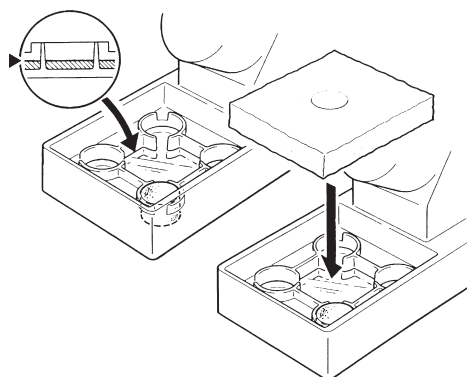
2. 添水至圓1所示水平面。小塊海綿吸收水分後，可使置於其上的大塊海綿一直保持潮濕狀態。

* 也可以單用大塊海綿（省去小塊海綿和添水）。

3. 然後需濕大塊海綿，置於焊鐵架底座。

注記：

900S 型和 907/908 型焊鐵架有所不同。更換焊鐵時，應選用適當款型，請參照“部件清單”。



⚠ 注意：

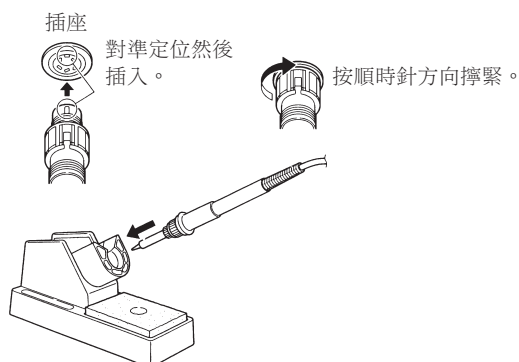
進行連接或拆開焊鐵時，切記要關掉電源，以免損壞電焊臺。

B. 連接

1. 將組裝電線連接焊鐵插座。

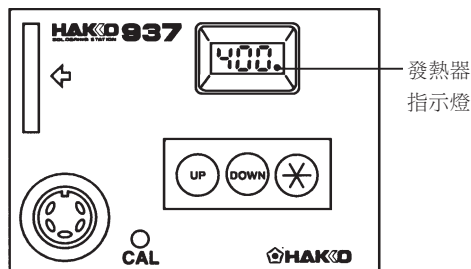
2. 將焊鐵置放於焊鐵架。

3. 將插頭插入電源插座。切記要接地。



4. 按開電源開關。廠方已預設攝氏400度。當溫度穩定時，發熱器指示燈即會閃亮。

5. 按下  鈕以顯示預設溫度。顯示歷時兩秒鐘。



C. 設定溫度

⚠ 注意：

確認以正確方位將插卡插入卡孔。設定溫度時，發熱元件是斷電源。

例子：攝氏 400 度改為 350 度

1. 

↓ 把插卡插入



2. 按下  鈕或  鈕。



按下  鈕一次。

3. 



按下  鈕或  鈕。



按下  鈕一次。

4. 



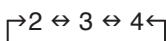
按下  鈕一次。



1. 將插卡插入卡孔。最左邊數位（100數位）將會閃亮。表示電焊臺溫度正在設定模式，100數位可進行調節。

2. 選擇所需數值以取代100數位。

利用“上”  或“下”  鈕以改換顯示數值如下圖所示：

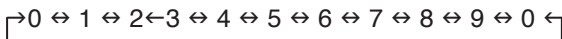


所需數字顯示時，即按下  鈕。

中間數位（10數位）開始閃亮，表示10數位可以設定。

3. 選擇所需數值以取代10數位。

利用  或  鈕以改換顯示數值如下圖所示：



按下  鈕。

右邊數位（1數位）開始閃亮，表示1數位可以設定。

4. 選擇所需數值以取代1數字位。利用  或  鈕以改換顯示數值，一如上面所示選擇10數位方法。按下  鈕。

在此，按下  鈕.....

a) 將所設定溫度輸入內部記憶體。

b) 顯示所設定溫度，與

c) 開始發熱器控制。

注記：

如果在設定溫度時關掉電源開關，所設數值將不存入記憶體。

當插卡還留插在電焊臺內，若要改換設定溫度，可以按照下述方法進行。

1. 按下  鈕，並且按著不放至少1秒鐘。首先顯示預設溫度，然後100數位開始閃亮，表示已輸入溫度設定模式。閃亮開始後，便可進行改換溫度程序。
2. 如果  鈕按下不至1秒鐘，現存的設定溫度將顯示兩秒鐘，然後顯示焊鐵頭溫度。

插卡

1. 設定溫度後，取出插卡，預設之溫度便不能改換，除非再插入插卡，重新設定，即使關掉電源開關，也不能改換預設之溫度。因此:
 - a. 可以隨意開關電源而不必每一次重新設定溫度。
 - b. 既準確又安全地控制溫度。
2. 任何HAKKO 937插卡都適用於HAKKO 937電焊臺。
3. 即使插卡還留插在電焊臺卡孔內，HAKKO 937仍然能照常操作。如果插卡插入插孔時，電源被切斷，則焊鐵將昇溫至前此所設定之溫度。

電焊臺可累積使用

為了更方便工作和取更高焊接效率，可將兩臺電焊臺重疊使用。

參數

HAKKO 937使用下列參數，參數可調節。

1. 選擇攝氏（℃）或華氏（℉）溫度顯示
2. 發熱器一失誤溫度一公差
3. 顯示室溫補整值（測試模式）

當參數一輸入模式 輸入後，按照下述次序設定參數。

當所有參數都設定之後，便開始正常操作。

參數輸入模式

1. 攝氏“C”或華氏“F”溫度顯示

1. 關掉電源開關。同時按下 **UP** 與 **DOWN** 鈕不放，然後按開電源開關。
2. 繼續按著 **UP** 與 **DOWN** 鈕，直到顯示屏顯示“C”或“F”為止。
3. 當顯示屏顯示“C”或“F”時，電焊臺是處在參數輸入模式。

選擇參數一輸入模式。按下 **UP** 或 **DOWN** 鈕將輪流顯示“C”與“F”。按下 **✖** 鈕以選擇“C”或“F”。

選擇“C”或“F”溫度顯示之後，發熱器一失誤溫度將顯示，並在100數位閃亮。

2. 發熱器一失誤溫度一公差

按照“如何改換設定溫度”（第18頁“第2-4步驟”）的同樣方法，設定發熱器一失誤溫度一公差。請參照下列可用數值範圍。

發熱器一失誤溫度可用範圍:

攝氏度:攝氏30-150度

華氏度:華氏60-300度

如果溫度值超過這個範圍，100數位將再次閃亮。發生這種情況時，請再輸入正確的溫度值。

設定發熱器一失誤溫度一公差之後，顯示屏將顯示室溫補整值（測試模式）。

3. 室溫補整值(測試模式)

顯示屏不會閃爍，發熱器也不受電力。

室溫補整值是指所測得的焊鐵頭溫度。這項功能將於稍後用在校準焊頭的溫度。

（請參閱第21頁之“校準焊鐵溫度”。）這裡不需進行任何輸入。按 **✖** 鈕以完成參數輸入程序。設定的焊鐵溫度將顯示兩秒鐘，電流接著就輸送至發熱器，正常溫度控制於是開始。

校準焊鐵溫度

每當更換焊鐵、發熱元件或焊鐵頭之後，都要重新校準焊鐵溫度。
有兩種方法重新校準焊鐵溫度：

- 1: 使用焊鐵頭溫度計校準。
- 2: 使用室內溫度計校準。

注記：
我廠建議使用方法(1) 這方法比較準確。

A. 以焊鐵頭溫度計進行校準

1. 設定溫度為攝氏400度（華氏750度）。
 2. 待溫度穩定時，取去校準計CAL圓塞。
 3. 當溫度穩定時，利用（一）字頭螺絲起子或小（+）字頭螺絲起子調節螺絲（電焊臺誌有CAL字樣者），直到焊鐵頭溫度計顯示攝氏400度（華氏750度）為止。順時針方向旋轉螺絲為增溫，反時針方向為減溫。之後塞緊校準計CAL圓塞。
- * 我廠建議使用HAKKO 191/192溫度計以測量焊鐵頭溫度。

B. 以室內溫度計進行校準（測試模式）

1. 先讓HAKKO 937將到室內溫度一小時。
2. 同時按下 **UP** 與 **DOWN** 鈕，並且按著不放，按開電源開關。（請參閱“參數頁。”）

△ 注意：
如果進行（2）與（3）步驟時發生錯誤，則電焊臺將開始正常操作，發熱元件開始昇溫。發生這種情況時，應切斷焊鐵電源，並讓焊鐵回復到室內溫度。

3. 顯示室溫補整值（測試模式），即是所側得的焊鐵頭溫度。
4. 利用（一）字頭螺絲起子或小（+）字頭螺絲起子調節螺絲（電焊臺誌有CAL字樣者），直到顯示屏顯示室內溫度加或減去下列校準表的數值。

如何使用校準表:如果是在室溫攝氏22度（華氏70度）時進行校準900M-T-LB型焊鐵頭，應調節CAL電位計直到顯示20（66）的數字為止。

$$\begin{array}{ccccccc}
 22 & (70) & - & 2 & (4) & = & 20 & (66) \\
 \text{室溫} & & & \text{校準表值} & & & \text{數字顯示}
 \end{array}$$

5. 按下 **✖** 鈕以完成校準程序。當按下 **✖** 鈕後，電流便輸送至發熱器，開始正常溫度控制。

校準表

例如: 如果是在室溫攝氏22度 (華氏70度) 時進行校準900M-T-LB型焊鐵頭, 應調節CAL電位計直到顯示20 (66) 的數字為止。

室溫.....攝氏22度 (華氏70度)

校準表值...攝氏 -2度 (華氏 -4度)

數字顯示...攝氏20度 (華氏66度)

900S		907		908	
編號	室溫±	編號	室溫±	T編號	室溫±
900S-T-1.2D	0	900M-T-0.8D	0	900L-T-LB	0
900S-T-1.6D	0	900M-T-1.2D	+2°C (+4°F)	900L-T-2B	0
900S-T-2C	0	900M-T-1.6D	0	900LT-2.4D	0
900S-T-1C	0	900M-T-2.4D	0	900L-T-3.2D	0
900S-T-B	0	900M-T-3.2D	0	900L-T-2C	-5°C (-9°F)
900S-T-1	0	900M-T-1.2LD	0	900L-T-2CF*	-5°C (-9°F)
		900M-T-SB	0	900L-T-3C	0
		900M-T-B	0	900L-T-3CF*	0
		900M-T-LB	-2°C (-4°F)	900L-T-4C	0
		900M-T-0.5C	0	900L-T-4CF*	0
		900M-T-0.8C	-2°C (-4°F)	900L-T-5C	0
		900M-T-1C	0	900L-T-5CF*	0
		900M-T-1CF*	0	900L-T-I	-5°C (-9°F)
		900M-T-1.5CF*	0	900L-T-K	+5°C (+9°F)
		900M-T-2C	0		
		900M-T-2CF*	0		
		900M-T-3C	0		
		900M-T-3CF*	0		
		900M-T-4C	0		
		900M-T-4CF*	0		
		900M-T-K	+7°C (+12°F)		
		900M-T-R	0		
		900M-T-RT	0		
		900M-T-SI	0		
		900M-T-I	-2°C (-4°F)		
		900M-T-H	-5°C (-9°F)		
		900M-T-1.8H	-2°C (-4°F)		
		900M-T-S4	+4°C (+7°F)		



焊鐵頭的維護和使用

● 焊鐵頭溫度 -----

溫度過高會減弱焊鐵頭功能，因此應選擇儘可能低之溫度。此焊鐵頭的溫度回復力優良，較低的溫度也可以充分的焊接，可保護對於溫度敏感之元件。

● 清理 -----

應定期使用清潔海綿清理焊鐵頭。焊接後，焊鐵頭的殘餘焊劑所衍生的氧化物和碳化物會損害焊鐵頭，造成焊接差誤，或者使焊鐵頭導熱功能減退。
長時間連續使用焊鐵時，應每周一次拆開焊鐵頭清除氧化物，防止焊鐵頭受損而減低溫度。

● 當不使用時 -----

不使用焊鐵時，不可讓焊鐵長時間處在高溫狀態，會使焊鐵頭上的焊劑轉化為氧化物，致使焊劑頭導熱功能大為減退。

● 使用後 -----

使用後，應抹淨焊劑頭，鍍上新錫層，以防止焊劑頭引起氧化作用。

保養

檢查和清理焊鐵頭

△ 注意：

切勿用銼刀剔除焊鐵頭上的氧化物。

1. 設定溫度為攝氏250度（華氏482度）。
2. 溫度穩定後，以清潔海綿清理焊鐵頭，並檢查焊鐵頭狀況。
3. 如果焊鐵頭的鍍錫部份含有黑色氧化物時，可鍍上新錫層，再用清潔海綿抹淨焊鐵頭。如此重複清理，直到徹底除去氧化物為止，然後再鍍上新錫層。
4. 如果焊鐵頭變形或衍生重鏽，必須替換新的。

焊鐵頭

焊鐵頭溫度因焊鐵頭形狀不同而有所差異。最理想是使用焊鐵頭溫度計以調節焊鐵頭溫度。（請參閱第22頁“校準焊鐵溫度。”）

比較不準確的校準方法是：按照每一個焊鐵頭的調節值來調節設定溫度。

例如：當使用900M-T-H型焊鐵頭在於攝氏400度（華氏750度）時，此焊鐵頭的溫度與900M-T-B型焊鐵頭的溫度相差攝氏20度（華氏36度）。

故應設定溫度為攝氏420度（華氏786度）。

請參閱第31頁溫度調節表：

錯誤標記

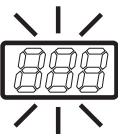
當HAKKO 937電焊臺發生問題時 將會顯示各種錯誤標記 如果顯示下列標記時 請參照排除故障指南。

 系統失誤

電源按開後，此系統便開始檢查記憶體與程序。如發現反常現象， 標記顯示，所有操作完全停頓。

 傳感器失誤

如果是傳感器或傳感器電路的任何部份失靈時， 標記顯示時，輸送到焊鐵的電流便被切斷。

 發熱器失誤

如果電流輸送至焊鐵，而焊鐵溫度比所設定的發熱器-失誤溫度-公差低，溫度顯示便會閃亮，表示發熱器可能失靈。

溫度顯示閃亮

例如假設設定溫度為攝氏400度，而發熱器-失誤溫度-公差為攝氏50度，即使發熱器接受了電流，焊鐵溫度還是低於攝氏350度。
顯示屏幕開始閃亮，表示發熱器可能失靈。

例如: $400-50=350 \rightarrow$ 顯示屏將開始閃亮。

注記：
如果溫度開始再升高，顯示屏便停止閃亮 — 即使所顯示的溫度是低於攝氏 350 度。

維修之前

 **注意：**

- 進行維修之前應關掉電源，否則可能發生觸電事故。
- 若電線損壞，應請廠家或其他維修服務代理商或類似之合格人士修理，以免傷害身體或損壞電焊臺。

排除故障

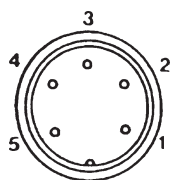
故障1: 電焊臺不能操作。	檢查1. 保險絲是否燒斷? - 確定保險絲燒斷原因後，更換新保險絲。 a. 焊鐵內部是否短路? b. 接地彈簧是否觸及發熱元件? c. 發熱元件引線是否扭曲與短路? 檢查2. 電線是否破損? - 更換新電線。
故障2: 焊鐵頭不昇溫，傳感器或發熱器失誤顯示。	檢查3. 電線與/或連接插頭是否鬆脫? - 重新連接 檢查4. 焊鐵電線是否破損? - 請參閱“組裝電線破損檢查法”。 檢查5. 發熱元件是否破損? - 請參閱“發熱元件破損檢查法”。
故障3: 焊鐵頭斷斷續續地昇溫。	→ 檢查4.
故障4: 焊鐵頭黏不上鉛錫。	檢查6. 焊鐵頭溫度是否過高? - 重新設定適當溫度。 檢查7. 焊鐵頭是否已清理乾淨? - 請參閱“焊鐵頭維護和使用”。
故障5: 焊鐵頭溫度太低。	檢查8. 焊鐵頭是否衍生氧化物? - 請參閱“檢查和清理焊鐵頭”。 檢查9. 焊鐵是否正確校準? - 重新校準
故障6: 系統失誤顯示	檢查10. 請連絡鄰近的HAKKO代理商。
故障7: 發熱器失誤經常顯示。	檢查11. 與所要燒焊的物件比較，焊鐵頭是否太小? - 更換較大型焊鐵頭。 所設定的發熱器一失誤溫度一公差是否太低? - 增加設定溫度值。

如何檢查發熱元件和組裝電線破損

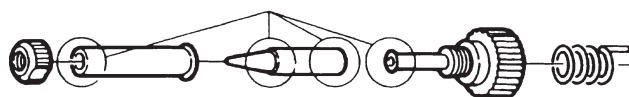
拔出插頭，測試連接插頭的腳與腳之間的電阻值如下：如果“a”與“b”之間的電阻值有異於上表電阻值，需更換發熱元件（傳感器）和/或電線。請按照程序1和2進行。

如果“c”電阻值大於上表電阻值，則要砂紙或鋼絨輕輕擦除下圖所示部位的氧化層。

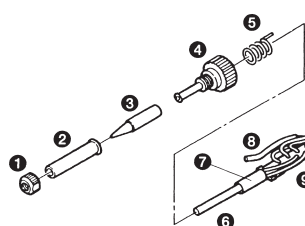
1. 發熱元件破損



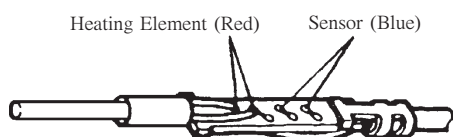
a.	第4腳與第5腳之間(發熱元件)	2.5-3.5歐姆(正常)
b.	第1腳與第2腳之間(傳感器)	43-58歐姆(正常)
c.	第3腳與焊鐵頭之間	2歐姆以下



如何拆開907/908型焊鐵



1. 向反時針方向扭開螺帽①，取出焊鐵頭護套②和焊鐵頭③。
2. 向反時針方向扭開套頭④，從焊鐵中拉出套頭。
3. 從手柄⑫中取出發熱元件⑥和電線⑪（向著焊鐵頭方向拉出）。
4. 從D形套中拉出接地彈簧⑤。



當發熱元件回復到室溫時測量：

1. 發熱元件電阻值（紅色）2.5-3.5歐姆。
2. 傳感器電阻值（藍色）43-58歐姆。

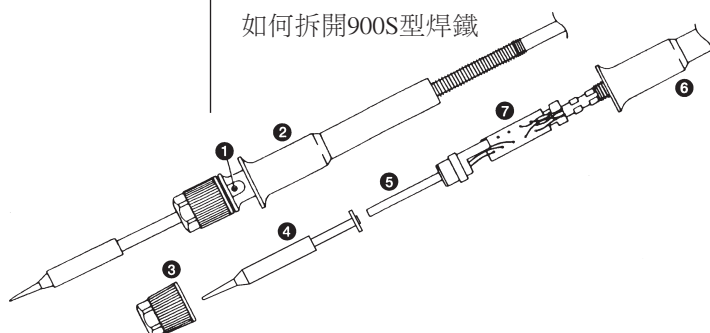
如果電阻值反常，更換發熱元件。

關於更換程序，請參閱更換部件內的說明書。

更換發熱元件後，請進行以下事項。

1. 測量第4腳和第1腳或第2腳之間，第5腳和第1腳或第2腳之間電阻值。如果不是 ∞ 時，則是發熱元件和傳感器受觸及，這將會損壞印刷電路板。
2. 測量“a”“b”“c”電阻值以確定引線未被扭曲，而接地彈簧也連接妥當。

如何拆開900S型焊鐵



2. 焊鐵電線破損

測試焊鐵電線有以下兩個方法:

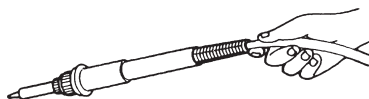
3. 更換保險絲

1. 將手柄護套②從電線方向推移，鬆開栓緊發熱元件的螺絲①。
2. 向反時針方向扭開和取出螺帽③。
3. 取出焊鐵頭④。
4. 向著焊鐵頭方向，從手柄6拉出發熱元件⑤和電線。

測試終端板的傳感器和發熱元件的電阻值。此電阻值應與907和908型一樣。

關於更換程序，請參閱更換部件的使用說明書。

1. 按開焊鐵電源，溫度設定為攝氏480度（華氏896度）。在焊鐵電線的各個不同部位（包括鬆緊部位）搖動或纏結，如果發熱器的液晶指示燈閃亮，則應更換電線。



⚠ 注意：

雖然焊鐵電線正常，當溫度達到攝氏480度（華氏896度）時，發熱器的液晶指示燈將會閃亮。

2. 測試焊鐵插頭腳和終端板電線之間的電阻值。
腳1-紅色 腳2-藍色 腳3-青色 腳4-白色 腳5-黑色
電阻值應為0歐姆，若大過0歐姆或 ∞ ，應更換電線。

請參閱更換部件的圖示。除去燒斷的保險絲，然後再焊接新的保險絲。

規格

名稱	HAKKO 937
耗電	60 瓦特

控制臺

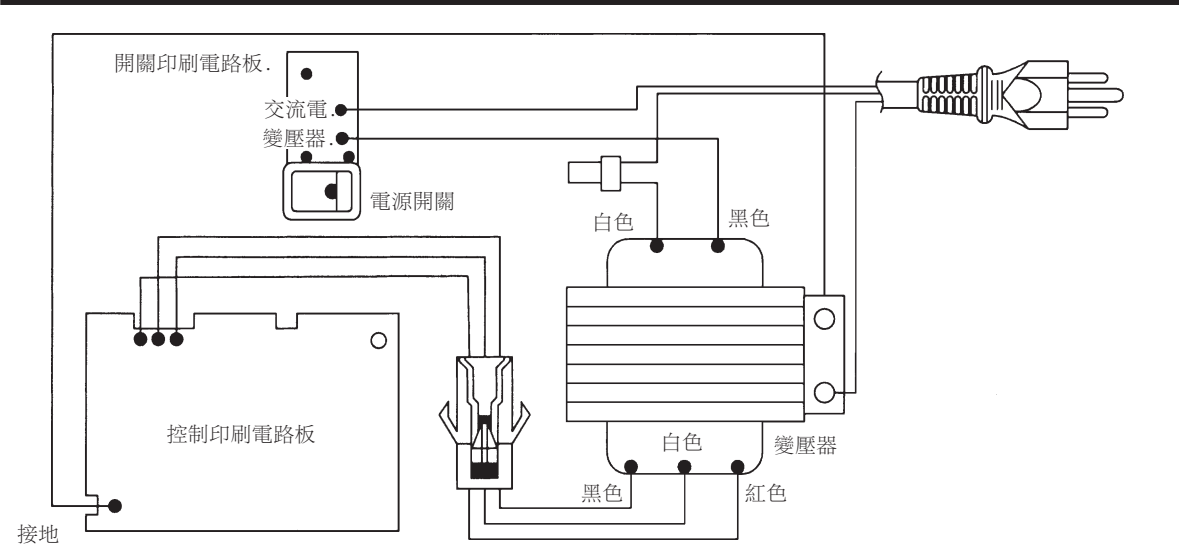
Name	937 電焊臺 /937 電焊臺 ESD
輸出電壓	交流電 24 伏特
溫度範圍	2 攝氏 200-480 度 / 華氏 392-899 度
外形體積	寬 120 x 高 93x 深 140 毫米 /4.7x3.7x5.5 英寸
重量 (不包括電線)	1,300 克 (2.9 磅)

焊鐵

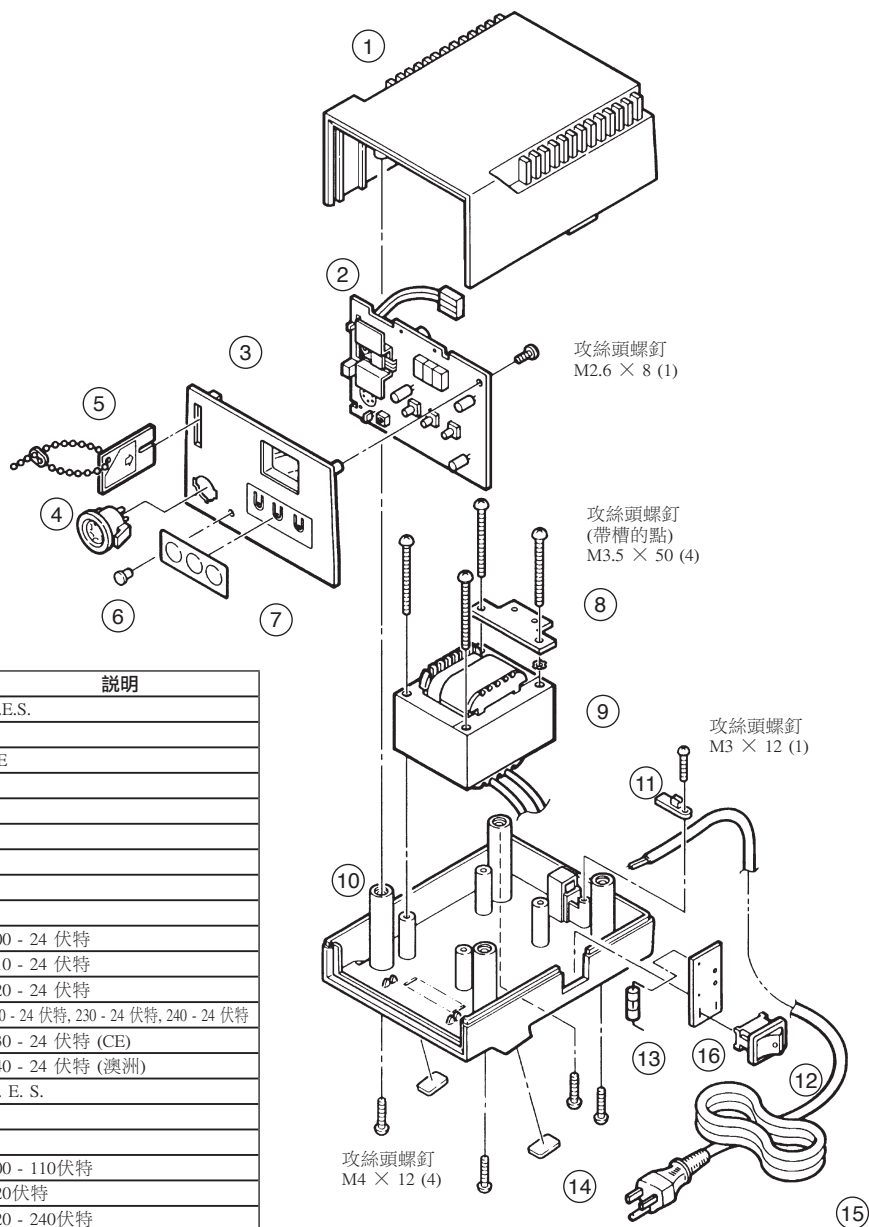
	900S-ESD	907-ESD	908-ESD
耗電	交流電 24 伏特 -50 瓦特		
焊鐵頭至接地電阻	低於 2 歐姆		
焊鐵頭至接地電勢	低於 2 毫伏 (標準為 0.6 毫伏)		
發熱元件	陶瓷發熱器		
電線裝置	1.2 米 (4 英尺)		
長度 (無電線)	176 毫米 (7 英寸)	190 毫米 (7.5 英寸)	200 毫米 (7.9 英寸)
重量 (無電線)	25 克 (0.061 磅)	44 克 (0.09 磅)	5454 克 (0.12 磅)

- 焊鐵頭溫度是以 HAKKO 191 溫度計測量。
- 上述規格和設計可能變更 恕不另行奉告。

電路圖



部件清單（電焊臺）

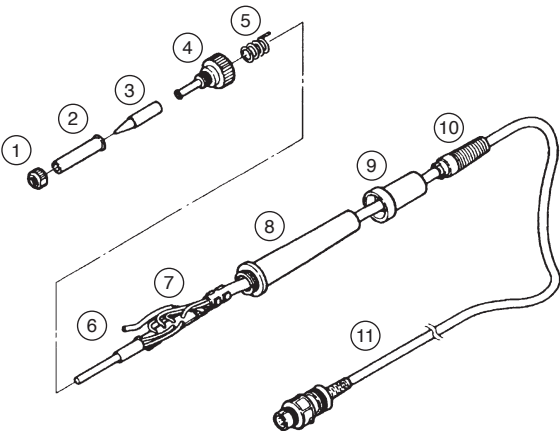


序號	部件編號	部件名稱	說明
①	B2034	上蓋	D.E.S.
②	B2036	控溫電路板	
	B2322	電路板	CE
③	B2035	操作前板	
④	B2006	插座	
⑤	B2037	插卡	
⑥	B2018	校準計CAL圓塞	
⑦	B2047	隔膜片	
⑧	B2227	接地板	
⑨	B2038	變壓器	100 - 24 伏特
	B2039	變壓器	110 - 24 伏特
	B2040	變壓器	120 - 24 伏特
	B2041	變壓器	220 - 24 伏特, 230 - 24 伏特, 240 - 24 伏特
	B2331	變壓器	230 - 24 伏特 (CE)
	B2302	變壓器	240 - 24 伏特 (澳洲)
⑩	B2002	下蓋*	D. E. S.
⑪	B2015	電線塞	
⑫	B1084	電源開關	
⑬	B2007	保險絲, 125V - 2A	100 - 110伏特
	B2224	保險絲, 2A (UL)	120伏特
	B2008	保險絲, 250V - 0.8A	220 - 240伏特
	B2303	保險絲, 0.63A (CE)	230伏特
	B2016	樹膠塞	一套兩個
⑮	B1318	電線	三芯無插頭
	B1319	電線	三芯美國式插頭 (U.S.A.)
	B2042	電線	三芯澳洲式插頭
	B2043	電線	三芯歐洲式插頭 (KT)
	B2098	電線	三芯英國標準插頭
	B2327	電線	三芯歐洲式插頭 (CE)
	B2328	電線	三芯英國標準插頭 (U.K.)
	B2486	電線	三芯中國式插頭
	B3504	電線	三芯美國式插頭
⑯	B2103	電源開關用電路板	

*有樹膠塞

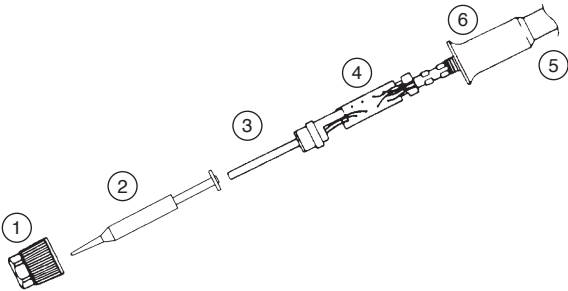
部件清單（焊鐵）

907/907



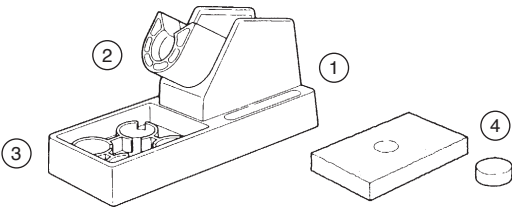
序號	部件編號	部件名稱	說明	供用於
①	B1784	螺帽		907
	B1794	螺帽		908
②	B1786	焊鐵頭護套		907
	B1787	焊鐵頭護套		908
③		焊鐵頭	參閱第31頁	907
		焊鐵頭	參閱第31頁	908
④	B2022	套頭		907
	B2033	套頭		908
⑤	B2032	接地彈簧		907, 908
⑥	A1321	發熱元件	舊編號900M - H, 900L - H	907, 908
⑦	B2028	終端板		907, 908
⑧	B2024	手柄	有手柄護套, D.E.S.	907
	B2026	手柄	有手柄護套, D.E.S.	908
⑨	B2027	手柄護套		907, 908
⑩	B2031	電線束		907, 908
⑪	B2030	組裝電線	D.E.S.	907, 908

900S



序號	部件編號	部件名稱	說明
①	900S - 006S	螺帽	D.E.S.
②		焊鐵頭	參閱第31頁
③	A1322	發熱元件	舊編號 900S - H
④	900S - 101	終端板	有電線塞
⑤	900S - 001S	手柄	有手柄護套, D.E.S.
⑥	900S - 034S	手柄護套	D.E.S.
⑦	900S - 010	電線束	
⑧	900S - 039S	組裝電線	D.E.S.

Iron Holder

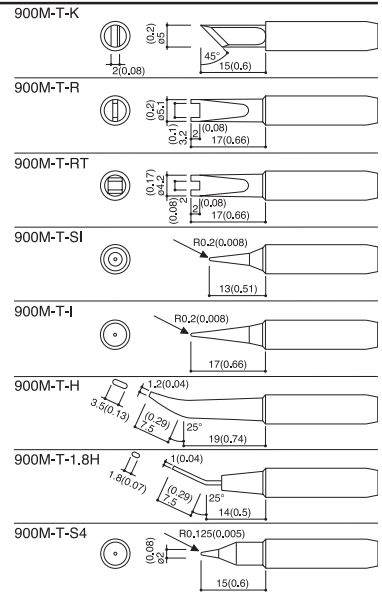
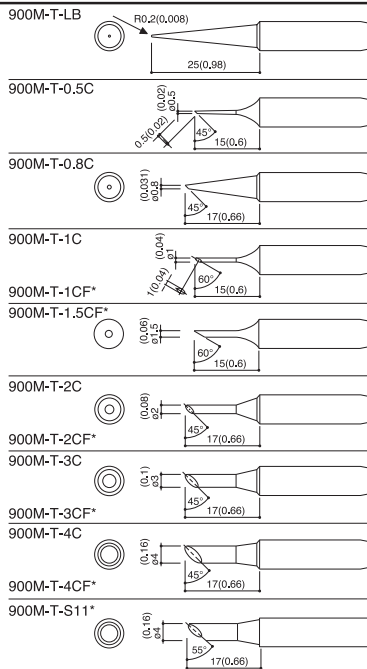
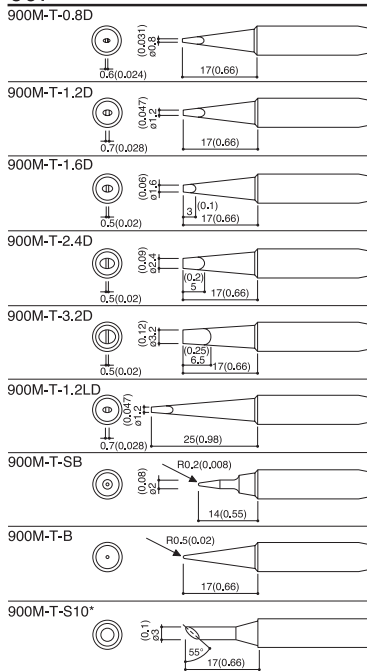


序號	部件編號	部件名稱	供用於
①	C1141	焊鐵架	900S
	C1142	焊鐵架	907, 908
②	B2020	焊鐵插座	900S
	B2021	焊鐵插座	907, 908
③	B2019	焊鐵架底座	900S, 907, 908
④	A1042	清潔海綿	900S, 907, 908

Tips / 焊鐵頭

English

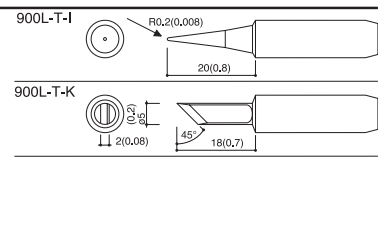
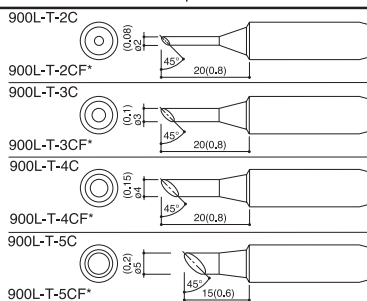
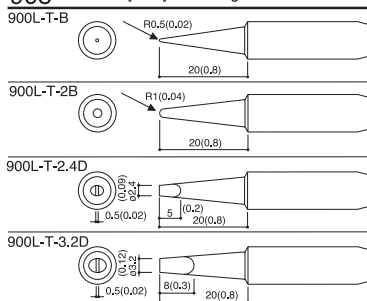
907



*900M tip Outer Dia. ϕ 6.5 *900M型焊鐵頭外徑為 ϕ 6.5

908 For heavy duty soldering HAKKO recommends the 908 iron with heavier tips.

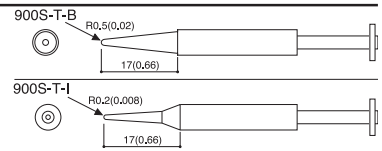
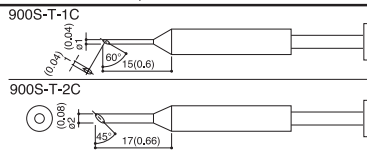
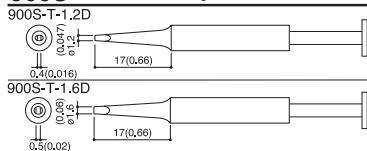
*若進行繁重焊接工作,我方建議您選用配備有較強功能焊鐵頭的908型焊鐵。



*900L tip Outer Dia. ϕ 8.5 *900L型焊鐵頭外徑為 ϕ 8.5
*These tips are tinned flat only. *此款焊鐵頭只在平坦部份鍍錫。

900S For micro soldering HAKKO recommends the 900S iron with fine tips.

*若進行顯微焊接工作,我方建議您選用配備有纖細焊鐵頭的900S型焊鐵。



*900S tip Outer Dia. ϕ 5.8 *900S型焊鐵頭外徑為 ϕ 5.8

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