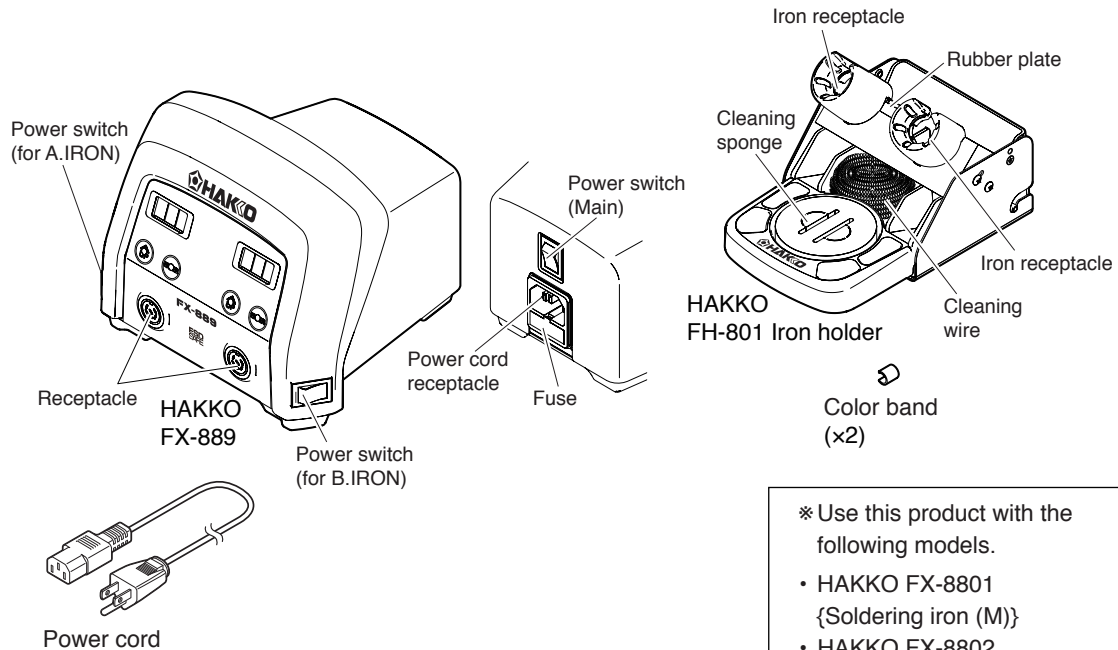# HAKKO

HAKKO FX-889
SOLDERING STATION

Instruction Manual

Thank you for purchasing the HAKKO FX-889 Soldering Station.
Please read this manual before operating the HAKKO FX-889.
Keep this manual readily accessible for reference.

1. PACKING LIST AND PART NAMES

Please check to make sure that all items listed below are included in the package.

HAKKO FX-889 Station 1
HAKKO FH-801 Iron holder 1
Power cord 1

Color band 2
Instruction manual 1

Iron receptacle
Rubber plate
Cleaning sponge
Iron receptacle
Cleaning wire

HAKKO FH-801 Iron holder

Power switch (for A.IRON)
Power switch (Main)
Power cord receptacle
Fuse
Receptacle
HAKKO FX-889
Power switch (for B.IRON)

Color band (×2)

Power cord

● When using the HAKKO FX-8803 / FX-8804, please use the applicable iron holder.

● Each Hakko handpiece with the exception of the HAKKO FX-8801 / FX-8805 has their own instruction manual. Please refer to this manual for specifications and replacement parts.

※ Use this product with the following models.
・ HAKKO FX-8801 {Soldering iron (M)}
・ HAKKO FX-8802 (Soldering iron N_2 Type)
・ HAKKO FX-8803 (Soldering gun)
・ HAKKO FX-8804 (SMD Hot tweezer)
・ HAKKO FX-8805 {Soldering iron (L)}

2. SPECIFICATIONS

Power consumption	135W

● **Station**

Output	AC26V
Temperature range	120 - 899°F (50 - 480°C)
Temperature stability	±1.8°F (±1°C) at idle temperature {When set to 400-899°F (200-480°C)}
Dimensions (W × H × D)	6.2 (W) × 4.8 (H) × 5.9 (D) in. (157 × 121 × 149 mm)
Weight (w/o cord)	4.6 lb. (2.1 kg)

● **HAKKO FX-8801 Soldering iron**

Power consumption	AC26V 65W
Tip to ground resistance	< 2 Ω
Tip to ground potential	< 2 mV
Heating element	Ceramic heater
Cord	3.9 ft. (1.2 m)
Total length (w/o cord)	8.5 in. (217 mm) with 1.6D tip
Weight (w/o cord)	0.10 lb. (46 g) with 1.6D tip

* The temperature was measured using the FG-100 thermometer.   * This product is protected against electrostatic discharge.
* Specifications and design are subject to change without notice.

■ Electrostatic Protection

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

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

3. WARNINGS, CAUTIONS AND NOTES

Warnings, cautions and notes 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.

⚠ WARNING

When power is ON, tip temperatures will be between 120 to 899°F. (50 and 480°C) To avoid injury or damage to personnel and items in the work area, observe the following:

● Do not touch the tip or the metal parts near the tip.
● Do not allow the tip to come close to, or touch, flammable materials.
● Inform others in the area that the unit is hot and should not be touched.
● Turn the power off when not in use, or left unattended.
● Turn the power off when changing parts or storing the HAKKO FX-889.
● This unit is for counter or workbench use only.
● This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in safe way and understand the hazards involved.
● Children shall not play with the appliance.
● Cleaning and user maintenance shall not be made by children without supervision.

To prevent accidents or damage to the HAKKO FX-889, be sure to observe the following:

● Do not use the HAKKO FX-889 for applications other than soldering.
● Do not strike the iron against hard objects to remove excess solder. This will damage the iron.
● Do not modify the HAKKO FX-889.
● Use only genuine HAKKO replacement parts.
● Do not allow the HAKKO FX-889 to become wet, or use it with wet hands.
● Remove power and iron cords by holding the plug, not the wires.
● Be sure the work area is well ventilated. Soldering produces smoke.
● While using the HAKKO FX-889, don't do anything which may cause bodily harm or physical damage.

4. INITIAL SETUP

A. Setup the iron holder

(1) Cleaning sponge

1. Fit the small sponge pieces into the hollows of the iron holder base.
2. Add an appropriate amount of water into the iron holder base. The small sponge will absorb water and help keep the large sponge damp at all times.
3. Dampen the large sponge and place it on the iron holder base.
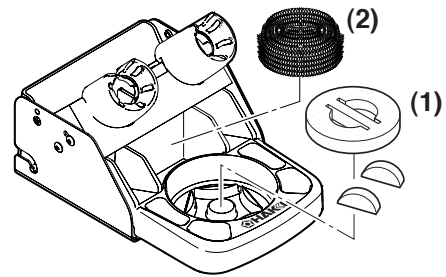
(2) Cleaning wire

Place it in the iron holder as shown on the right. See "**B. Using the cleaning wire**" in section "**7. MAINTENANCE**".

The angle of the iron receptacles is adjustable by changing the fastening position of the screws.

⚠ **CAUTION**
Increasing the angle of the iron receptacle will cause an increase in the iron grip temperature.

(2)
(1)

⚠ **CAUTION**
Be sure the sponge is moistened with water before use to avoid damaging the tip.
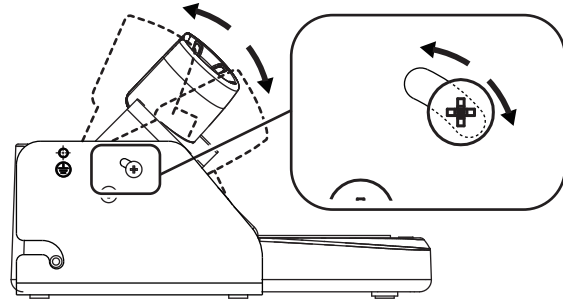
B. Connect the iron to the station

1. Connect the cord assembly to the receptacle.
2. Place the iron into the iron holder.
3. Plug the power cord into an appropriate power supply.

⚠ **CAUTION**
· Be sure to turn off the power before connecting or disconnecting the cord assembly for the iron to and from the receptacle to avoid damaging the circuit board.
· Do not use any iron other than those listed in Section 1 of this manual. Doing so may result in inadequate performance and / or possible damage to the unit.
· The unit is protected against electrostatic discharge and must be grounded for full efficiency.

Push on the plug until it stops, making sure it is securely connected.

Receptacle

To disconnect, hold the plug and pull it out of the receptacle.
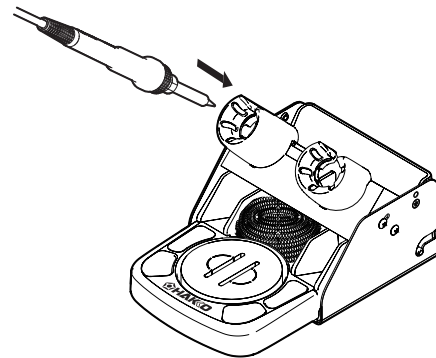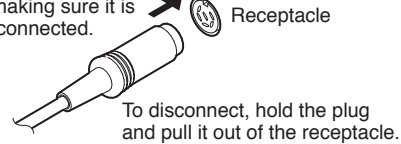
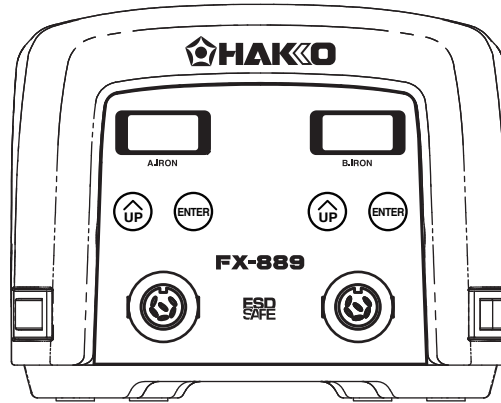※ **When using two soldering irons simultaneously**
Attachment of the color bands to one of the soldering irons will help identify which soldering iron is connected to receptacle "A.IRON" and "B.IRON".

With color bands

Without color band
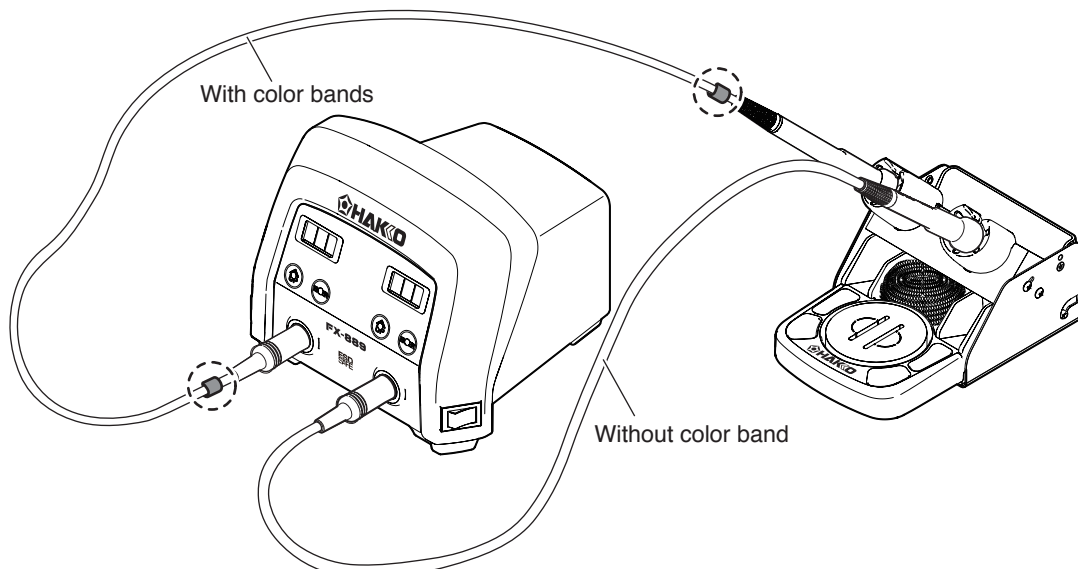
5. OPERATION

● Operation and indication

Switch and control button

The front panel of HAKKO FX-889 has two control buttons each for "A.IRON" and "B.IRON."

(UP) – Use this button to select and change settings.
- In the temperature preset mode, pressing this button will change the selected preset temperature while the unit is in operation.
- Pressing and holding the button will start the adjustment mode.

(ENTER) – Use this button to make and confirm selections.
- Pressing this button will display the current set temperature.
- Pressing and holding the button will start the temperature setting mode.

A. Operation

1. Turn on the power switch (main) located on the back.
2. Turn on either one of power switches located on each side depending on which receptacle of "A.IRON" or "B.IRON" is used.

After turning on the power switch, ⬚.⬚.⬚. will be displayed for two seconds, and current temperature will be displayed.
When the display stabilizes, the LED heater lamp will begin to flash.
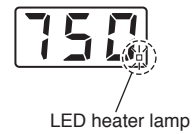
LED heater lamp

⚠ **CAUTION**

Place the iron in the iron holder when not in use. Turn the power off when the HAKKO FX-889 is not in use for an extended period.

B. After use

Always clean the tip and coat it with fresh solder after use.
(Refer to "**Tip Maintenance.**")
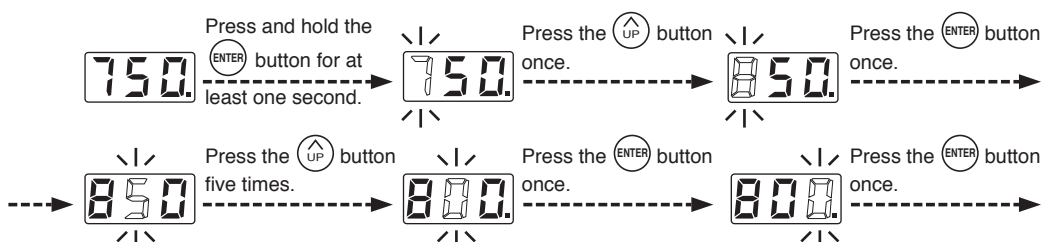
● Making Changes to Settings

⚠ **CAUTION**

If no buttons are pressed for at least one minute during the process of changing settings of the unit, the system will exit and return to operating mode and display the current temperature.

A. Changing the set temperature

The temperature setting range is from 120 to 899°F. (from 50 to 480°C)
By default, the temperature is set to 750°F. (399°C)

Example : Changing from 750°F to 800°F

750. → Press and hold the (ENTER) button for at least one second. → 750. → Press the (UP) button once. → 50. → Press the (ENTER) button once. →

→ 850 → Press the (UP) button five times. → 800. → Press the (ENTER) button once. → 800. → Press the (ENTER) button once. →

The desired temperature is saved to the system memory.
Heater control will begin after the new set temperature is displayed.

B. The preset mode

The HAKKO FX-889 has a preset mode that will allow the unit to store up to 5 preset temperatures you can change between instead of using the above normal mode.
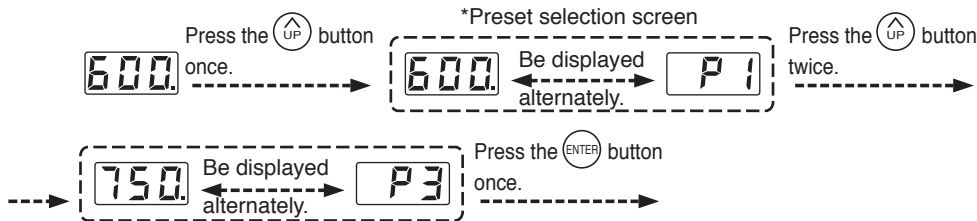
Initial preset temperatures

P1: 600°F (316°C), P2: 700°F (371°C), P3: 750°F (399°C), P4: 800°F (427°C), P5: 850°F (454°C)

The initial number of active presets is set to 5 at the factory.
The default selected preset is set to P3 at the factory.

Example : Changing preset temperature from preset No.1(600°F) to No.3(750°F).

Heater control will begin with new preset temperature.

The procedure for making changes to the preset temperatures is the same with "**A. Changing the set temperature**" in **5. OPERATION**. **Enter the parameter setting to change the mode. (Please refer to [6. PARAMETER SETTING])**

C. Performing the temperature adjustment

When replacing the iron, heater or tip, a temperature adjustment may be required.
Use adjustment mode to perform the temperature adjustment.

⚠ CAUTION
• Enter the observed value in the adjustment mode after the tip temperature stabilizes. • The maximum single adjustment that can be made is ±150°C (270°F) relative to the set temperature. If a larger adjustment is needed, make the first adjustment at the maximum value of 150°C (270°F), then repeat the adjustment process. • When a new soldering iron is used or insertion position is changed from A.IRON to B.IRON (and vice versa), temperature adjustment is always required.

Example : If the measured temperature is 760°F and the set temperature is 800°F.

1. Press and hold the (UP) button for at least two seconds.

● A.d.I. is displayed.
   When you press the (ENTER) button, the display will move to the adjust mode.

2. Changing from 8.0.0. to 7.6.0.

● The procedure for changing the value in adjustment mode is the same as setting the temperature in normal mode.
   Please refer to Section 5 - OPERATION.

NOTE :
During adjustment mode, the hundreds digit will accept values from 0 through 6 if the temperature is set to display in °C, or the values 0 through 9 if the temperature is set to display in °F.

3. Press the (ENTER) button to exit the setting after changing the values.

● The tip temperature will be adjusted accordingly.

* How to distinguish between Temperature Setting Mode and Adjustment Mode.

The display differs in the temperature setting and the adjustment mode.

In the Temperature Setting Mode

In the Adjustment Mode

Identification lamps are on in the adjustment mode.

⚠ CAUTION
Please be sure to confirm the status of the identification lamps so that you do not enter a value in the wrong mode.

D. Restriction on setting changes (Password function)

It is possible to restrict certain setting changes to the unit.
There are three choices for the password setting. (The factory default is "0 : Open")

	0 : Open	1 : Partial	2 : Restricted
Move to the parameter setting mode	○	×	×
Move to the temperature setting mode	○	△	×
Move to the preset selection mode	○	△	×
Move to the adjust mode	○	△	×

○ : You can make changes without entering a password.
△ : You can choose whether or not a password is needed to make changes.
× : A password is required to make changes.

Select and input three letters for password
from six letters on the right.

AbCdEF   The letters
          for password

Example: The procedure for changing the set temperature when the unit is restricted by a password.
(Password is "AbC")
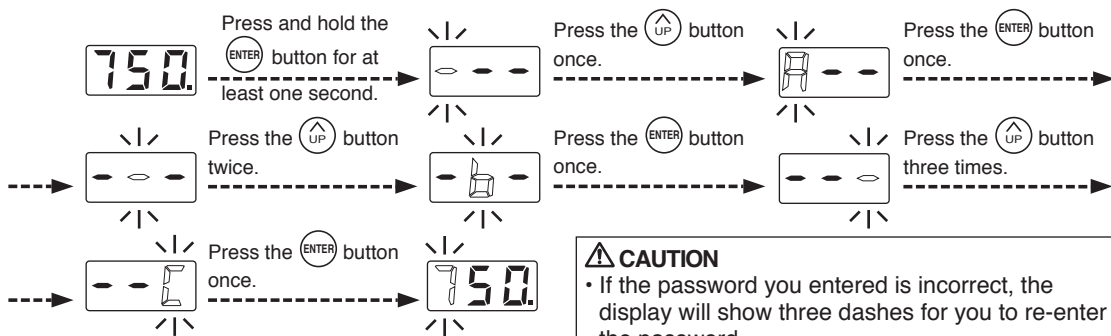
⚠ CAUTION
- If the password you entered is incorrect, the display will show three dashes for you to re-enter the password.
- If you enter the password incorrectly twice in a row, the display will return to the previous screen.

The unit will move to the change setting screen for each mode after entering the password.
Please change the setting for each mode according to the procedure.
Enter the parameter setting to change the mode. (Please refer to [6. PARAMETER SETTING])

6. PARAMETER SETTING

The HAKKO FX-889 has the following parameters.

Parameter name	Parameter No.	Value	Initial value
°C / °F selection	01	°C / °F	°F
Low temperature error setting	03	54 ~ 270°F (30 ~ 150°C)	270°F
Setting mode selection	11	0：The normal mode / 1：The preset mode	0
The number of preset※1		$2P$ (2 pcs.) ~ $5P$ (5 pcs.)	$5P$
Password setting	14	0：Open / 1：Partial / 2：Restricted	0
Temperature setting mode※2		10：○※4 / 11：×※4	11
Preset selection mode※2		20：○※4 / 21：×※4	20
Adjust mode※2		30：○※4 / 31：×※4	31
Password※3		$AbCdEF$ Select three letters	-

※1 It is displayed only when "1:Preset mode" is selected in the setting mode.
※2 It is displayed only when "1:Custom" is selected in the password setting.
※3 It is displayed only when either "1:Custom" or "2:valid" is selected in the password setting.
※4 ○ : Password not required × : Password required

● **Changing Parameter Setting**

The HAKKO FX-889 has four parameters. Parameter settings can be set for A. IRON and B. IRON respectively.

● 01 : °C or °F temperature display seletion

The displayed temperature can be switched between Celsius and Fahrenheit.

● 03 : Low temperature error setting

If the sensor temperature goes below the low-limit temperature although heating element is on, an error will be displayed.

● 11 : Setting mode selection

Temperature setting can be switched between the normal mode and the preset mode.
If selecting the preset mode, you will be asked for the number of preset you required.
Press the (UP) button to set the number.

● 14 : Password setting

Select "Open", "Partial" or "Restricted" for password setting.If selecting the Restricted, perform the setting for password. If selecting the partial, choose whether or not the password function is needed when moving to the temperature setting mode, the preset mode and the adjust mode and set the password.

● **Parameter entering mode**

1. Turn off the power switch.

2. Turn on the power switch while pressing the (UP) button.

3. When the display shows 01 , the station is in parameter entering mode.

A. °C or °F temperature display selection

1. Either `[` or `F` will be displayed if you press the (ENTER) button when `01` is displayed.

2. `[` and `F` will be switched alternately If you press the (UP) button.

3. The display will return to `01` if you press the (ENTER) button after selecting.

B. Low temperature error setting

1. Press the (UP) button to change the display to `03`.

2. The low-limit temperature will be displayed if you press the (ENTER) button. Enter the value in the same manner as described in the normal mode [**5. OPERATION ●The normal mode**].

3. The display will return to `03` if you press the (ENTER) button after setting.

C. Setting mode selection

1. Press the (UP) button to change the display to `11`.

2. If you press the (ENTER) button, the display will move to the setting mode selection screen. If you press the (UP) button, `0` (The normal mode) and `1` (The preset mode) will be switched alternately.

3. The display will return to `11` if you press the (ENTER) button after selecting.※

※ If you select the preset mode, the display will move to the preset selection screen.

4. The number of active preset will be displayed If you press the (ENTER) button at 3.

   (Example : If the number is three, `3P` is displayed.)

5. Press the (UP) button to change the value and select the number of active preset you required. **The unit will accept values from 2 through 5.**

6. The display will return to `11` if you press the (ENTER) button after selecting.

D. Password setting

1. Press the (UP) button to change the display to 14 .

2. If you press the (ENTER) button, the display will move to the setting mode selection screen.

   If you press the (UP) button, 0 (Open), 1 (Partial) and 2 (Restricted) will be switched alternately.

3. If you press the (ENTER) button after selecting, the display will return to 14 . ※1, 2


※1 The display will move to the following selection screen if you select 1 (Partial).

4. If you press the (ENTER) button at 3, you will be asked whether or not the password function is needed when moving to the temperature setting mode.

5. Either $1\ 0$ (without password) or $1\ 1$ (with password) will be displayed if you press the (UP) button.

6. If you press the (ENTER) button after selecting, you will be asked whether or not the password function is needed when moving to the preset selection mode.

7. Either $2\ 0$ (without password) or $2\ 1$ (with password) will be displayed if you press the (UP) button.

8. If you press the (ENTER) button after selecting, you will be asked whether or not the password function is needed when moving to the adjust mode.

9. Either $3\ 0$ (without password) or $3\ 1$ (with password) will be displayed if you press the (UP) button.

10. If you press the (ENTER) button after selecting, the display will move to password setting screen.

※2 If you select 2 (Restricted), the display will move to the following password setting screen.

If you select 1 (Partial), the display will move to the following the password setting screen after selecting ※1.

11. The hundreds digits in the display will begin to flash. It indicates that you can enter the value. Press the (UP) button to enter the letter you required.

12. The tens digits in the display will begin to flash if you press the (ENTER) button after entering. Use the same procedure to enter the letters for tens and units digit.

13. The display will return to 14 if you press the (ENTER) button after entering the units digit.

After changing parameters, press and hold the (ENTER) button down for at least two seconds until y is displayed. At this time, you can switch between y and n by pressing the (UP) button. Select y if you are finished making changes or n if you need to go back and make more changes. Press the (ENTER) button to confirm you selection.

Changes will not be completed until y is displayed and you press the (ENTER) button.
Please note that no changes will be made if you turn off the power while making changes.

7. MAINTENANCE

Performing proper and periodic maintenance extends product life. Efficient soldering depends upon the temperature, quality and quantity of the solder and flux.
Apply the following service procedure as dictated by the conditions of usage.

| ⚠ WARNING |
|---|
| Since the soldering iron can reach a very high temperature, please work carefully. Except the case especially indicated, always turn the power switch OFF and disconnect the power plug before performing any maintenance procedure. |

Tip Maintenance

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 the solder plated part of the tip is covered with black oxide, apply fresh solder containing flux, and clean the tip again. Repeat until all the oxide is removed, then coat the tip with fresh solder.
4. If the tip is deformed or heavily eroded, replace it with a new one.

⚠ CAUTION
Do not file the tip in an attempt to remove the black oxide.

● **Cleaning the tip using the iron holder**
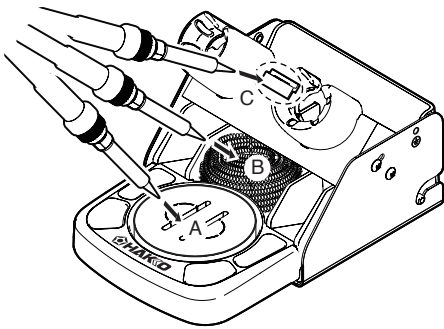
A. Using the cleaning sponge
Use the cleaning sponge that comes with the product to clean the tip. It offers wide-ranging uses, from simple removal of excess solder to complete elimination of matter occurring as a result of oxidization.

B. Using the cleaning wire
Material that is not removed easily with the cleaning sponge can likely be removed using the cleaning wire.

C. Using the rubber plate
Wipe the iron lightly across the rubber ring to remove excess solder from the tip.

● **Cleaning of solder fragments**
HAKKO FH-801 iron holder has a removable holder base. When solder debris accumulates, remove the holder base, and properly dispose of the contents.
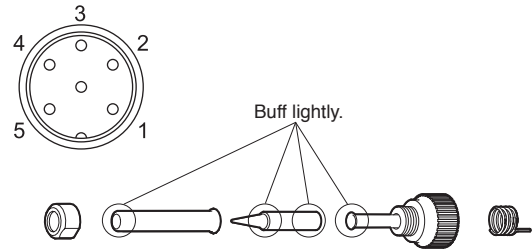

Remove

Holder base
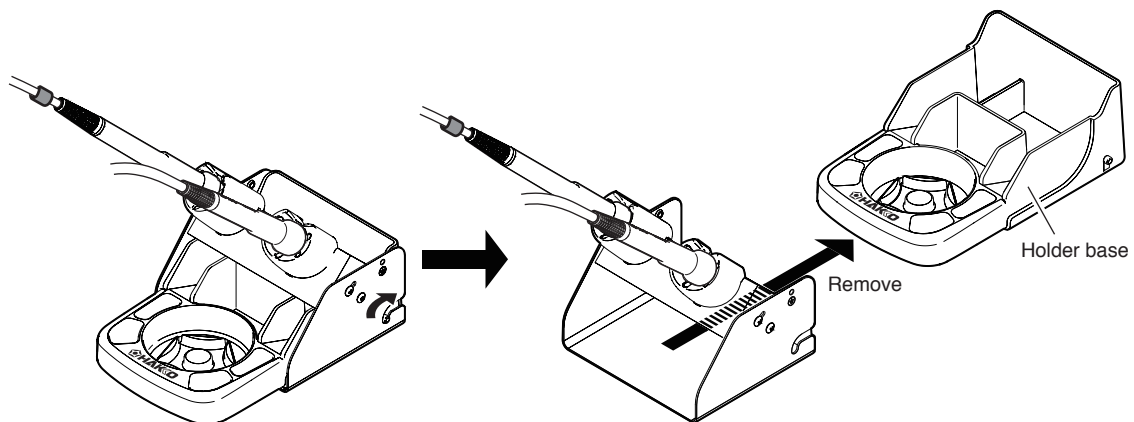
8. CHECKING PROCEDURE

Disconnect the plug of the cord assembly and measure the resistance value between the ping of the connecting plug as follows.

If the values of "a" and "b" are outside the value in the table, replace the heating element (sensor) and/or cord assembly.
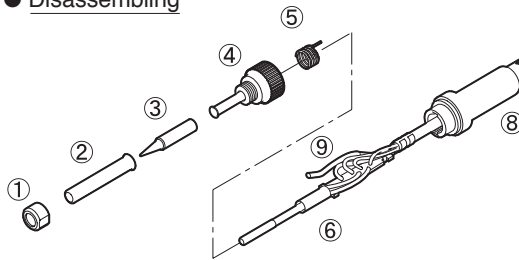If the value of "c" is over the value in the table, remove the oxidization film by lightly rubbing with sand-paper or steel wool the points shown in the drawing on the right.

| a. Between pins 4 & 5 (Heating Element)	2.5 – 3.5 Ω (at time of room temperature)
b. Between pins 1 & 2 (sensor)	43 – 58 Ω
c. Between pin 3 & Tip	2 Ω or less

Buff lightly.

A. Broken Heating Element/Sensor

● Disassembling

1. Turn the nut ① counterclockwise and remove the tip enclosure ② and the tip ③.
2. Turn the nipple ④ counterclockwise and remove it from the iron.
3. Pull both the heaing element ⑥ and the cord assembly ⑦ out of the handle ⑧. (Toward the tip of the iron).
4. Pull the grounding spring ⑤ out of the sleeve of the terminal ⑨.

Heating element resistance (red)   Sensor resistance (blue)
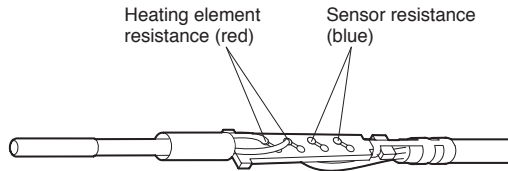
*Measure when the heating element is at room temperature.
  1. Heating element resistance (red) 2.5 – 3.5 Ω
  2. Sensor resistance (blue) 43 – 58 Ω
If the resistance value is not normal, replace the heating element. (Refer to the instructions included with the replacement part.)
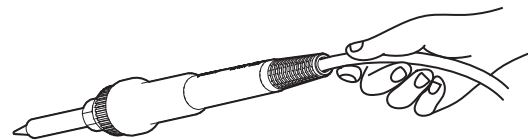
After replacement
1. Measure the resistance between pins 4 and 1, 4 and 2, 5 and 1, and 5 and 2. If it is not ∞, the heating element and sensor are touching. This will damage the circuit board.
2. Measure the resitance "a," "b," and "c" to confirm that the leads are not twisted and that the grounding spring is properly connected.

B. Broken Cord Assembly
There are two methods of testing the cord assembly.

1. Turn the unit ON and set the temperature control knob to 480°C. Then bend the iron cord at various locations along its length, including in the strain relief area. The cord assembly needs to be replaced if S-E is displayed or although the LED heater lamp flashes, the tip temperature doesn't rise.

2. Check the resistance between the plug pin and the terminal lead.

   Pin 1: Red Pin 2: Blue Pin 3: Green Pin 4: White
   Pin 5: Black
   Resistance: 0 Ω.

   If it is higher than 0 Ω or is ∞, the cord should be replaced.

⚠ **CAUTION**
The power lamp starts to flash when the temperature reaches 480°C (880°F) regardless of the condition of the cord.

9. ERROR MESSAGES

● **Sensor Error**

$5\text{-}E$

When there is the possibility that a failure has occurred in the sensor or heater (including the sensor circuit), $5\text{-}E$ is displayed and the power is shut down.

> ⚠ **CAUTION**
> The sensor error also occurs if the tip is not inserted properly.

● **Low-temperature alarm tolerance error**

$H\text{-}E$

EXAMPLE:

350°C (400°C – 50°C)
Set temperature — Low-temperature alarm tolerance

OR

650°F (750°F – 100°F)
Set temperature — Low-temperature alarm tolerance

If the sensor temperature falls below the difference between the current temperature setting and the low-temperature alarm tolerance, $H\text{-}E$ is displayed and the warning buzzer sounds. When the tip temperature rises to a value within the set tolerance, the buzzer will stop sounding.
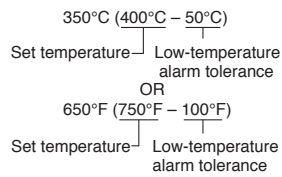
> **EXAMPLE:**
> Assume that the temperature setting is 400°C/750°F and the tolerance 50°C/100°F. If the temperature continues to decrease and finally falls below the value indicated below while the heating element is on, the displayed value starts blinking to indicate that the tip temperature has dropped.

10. TROUBLE SHOOTING GUIDE

⚠ WARNING
Before checking the inside of the HAKKO FX-889 or replacing parts, be sure to disconnect the power plug.

● **Nothing happens when the power switch is turned on.**

CHECK : Is the power cord and/or connecting plug disconnected?
ACTION : Connect it.
CHECK : Is the fuse blown?
ACTION : Determine why the fue 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?
    Try replacing the fuse even if the cause cannot be identified.
    If it still blows, return the product for repair.

● **The heater lamp lights up but the tip does not heat up.**

CHECK : Is the cord assembly broken? Is the heating element/ sensor broken?
ACTION : If the cord assembly is broken, replace the HAKKO FX-8801. If the heating element / sensor is broken, replace the heating element.
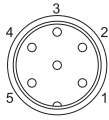
a. Between pins 4 & 5 (Heating Element)	2.5 - 3.5 Ω (at time of room temperature)
b. Between pins 1 & 2 (sensor)	43 - 58 Ω
c. Between pin 3 & Tip	2 Ω or less

● **The Heater-error $H - E$ is displayed.**

CHECK : Is the heater broken?
ACTION : If the heater is broken, replace the heating element.
CHECK : Is the setting value for the low-temperature alarm tolerance too low?
ACTION : Increase the setting value.

● **The tip heats up intermittently.**

CHECK : Is the cord assembly broken?
ACTION : If the cord assembly is broken, replace the HAKKO FX-8801.

● **Solder does not wet to the tip.**

CHECK : Is the tip temperature too high?
ACTION : Set an appropriate temperature.
CHECK : Is the tip coated with black oxide?
ACTION : Remove the black oxide. (Refer to "Tip Maintenance.")

● **The tip temperature is too low.**

CHECK : Is the tip coated with black oxide?
ACTION : Remove the black oxide. (Refer to "Tip Maintenance.")
CHECK : Is the iron temperature adjusted correctly?
ACTION : Perform the temperature adjustment.

● **The tip can not be pulled off.**

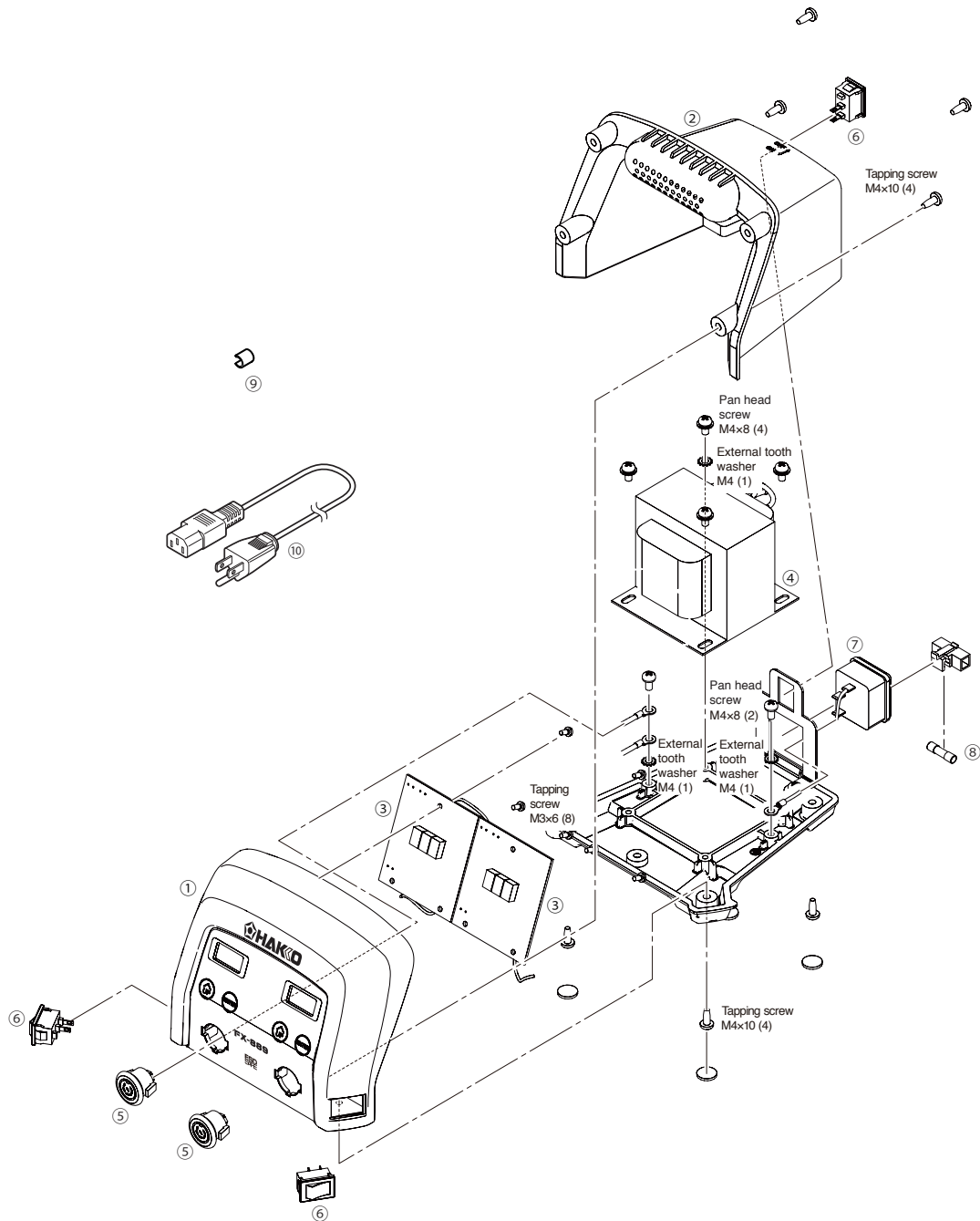**CHECK** : Is the tip seized? Is the tip swollen because of deterioration?
ACTION : Replace the tip and the heating element.

● **The tip doesn't hold the desired temperature.**

CHECK : Is the iron temperature adjusted correctly?
**ACTION** : Perform the temperature adjustment.

11. PARTS LIST (Station)

Pan head screw M4×8 (4)

External tooth washer M4 (1)

Tapping screw M4×10 (4)

Pan head screw M4×8 (2)

External tooth washer M4 (1)

External tooth washer M4 (1)

Tapping screw M3×6 (8)

Tapping screw M4×10 (4)

● HAKKO FX-889 station

Item No.	Part No.	Part Name	Specifications
1	B5110	Front panel	
2	B5111	Cover	
3	B3736	P.W.B.	for temperature control
4	B5112	Transformer	100 - 110V
	B5113	Transformer	120V
	B5114	Transformer	220 - 240V
5	B3463	Receptacle	
6	B5123	Switch	
7	B2384	Inlet	
8	B2468	Fuse	100 - 120V
	B5124	Fuse	220 - 240V
9	B5125	Color band	set of 2

Item No.	Part No.	Part Name	Specifications
10	B2419	Power cord, 3-wire cord & American plug	USA
	B2421	Power cord, 3-wire cord but no plug	220-240V
	B2422	Power cord, 3-wire cord & BS plug	India
	B2424	Power cord, 3-wire cord & European plug CE	220V KTL, 230V CE
	B2425	Power cord, 3-wire cord & BS plug CE	230V CE, U.K
	B2436	Power cord, 3-wire cord & Chinese plug	
	B2426	Power cord, 3-wire cord & Australian plug	China
	B3508	Power cord, 3-wire cord & American plug (B)	
	B3550	Power cord, 3-wire cord & SI plug	

12. PARTS LIST (Soldering iron)
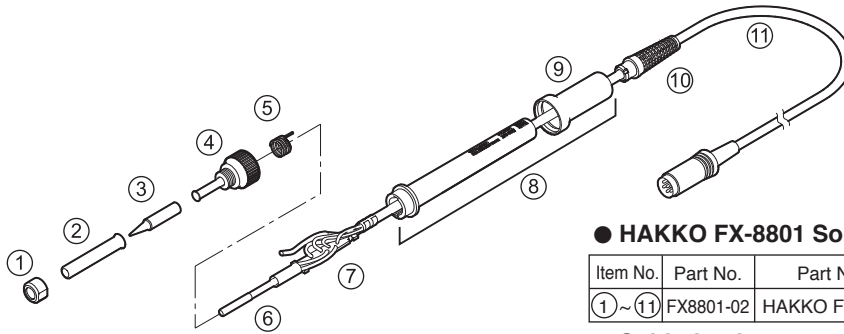
● HAKKO FX-8801 Soldering iron

Item No.	Part No.	Part Name	Specifications
①~⑪	FX8801-02	HAKKO FX-8801	with 1.6D tip

● Soldering iron parts

Item No.	Part No.	Part Name	Specifications
①	B1785	Nut	
②	B3469	Tip enclosure	
③		Tip	See "13. TIP STYLES"
④	B2022	Nipple	
⑤	B2032	Grounding spring	
⑥	A1560	Heating element	26V-65W
⑦	B2028	Terminal board	with cord stopper
⑧	B3470	Handle	with handle cover
⑨	B3471	Handle cover	
⑩	B3467	Cord bushing	
⑪	B3468	Cord assembly	

● Optional Parts

Item No.	Part No.	Part Name	Specifications
①	B5122	Tip enclosure assembly	

* If you use the capacious tip T19, change to above tip
enclosure assembly. Please see the tip styles and tip shape
for T19 from the following URL.

⇨ http://www.hakko.com
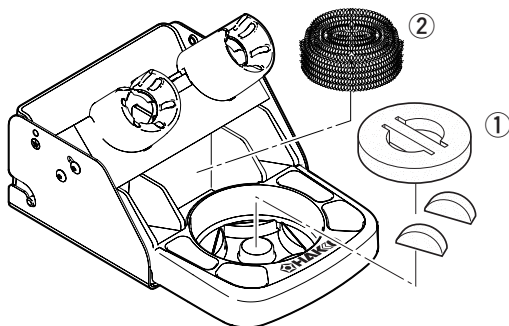
● HAKKO FH-801

Part No.	Part Name	Specifications
FH801-81	HAKKO FH-801	with cleaning sponge, cleaning wire

● Iron holder parts

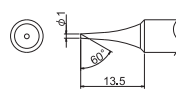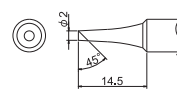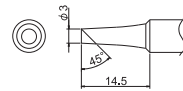| Item No.	Part No.	Part Name	Specifications
①	A1519	Cleaning sponge	
②	A1561	Cleaning wire	

13. TIP STYLES

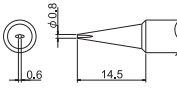T18-B SHAPE-B
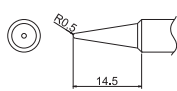
T18-C05 SHAPE-0.5C
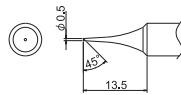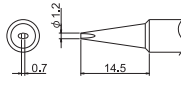
T18-C1 SHAPE-1C
T18-CF1*
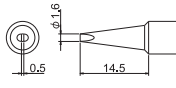
T18-C2 SHAPE-2C
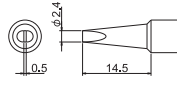T18-CF2*

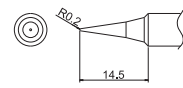T18-C3 SHAPE-3C
T18-CF3*

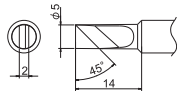T18-D08 SHAPE-0.8D

T18-D12 SHAPE-1.2D

T18-D16 SHAPE-1.6D

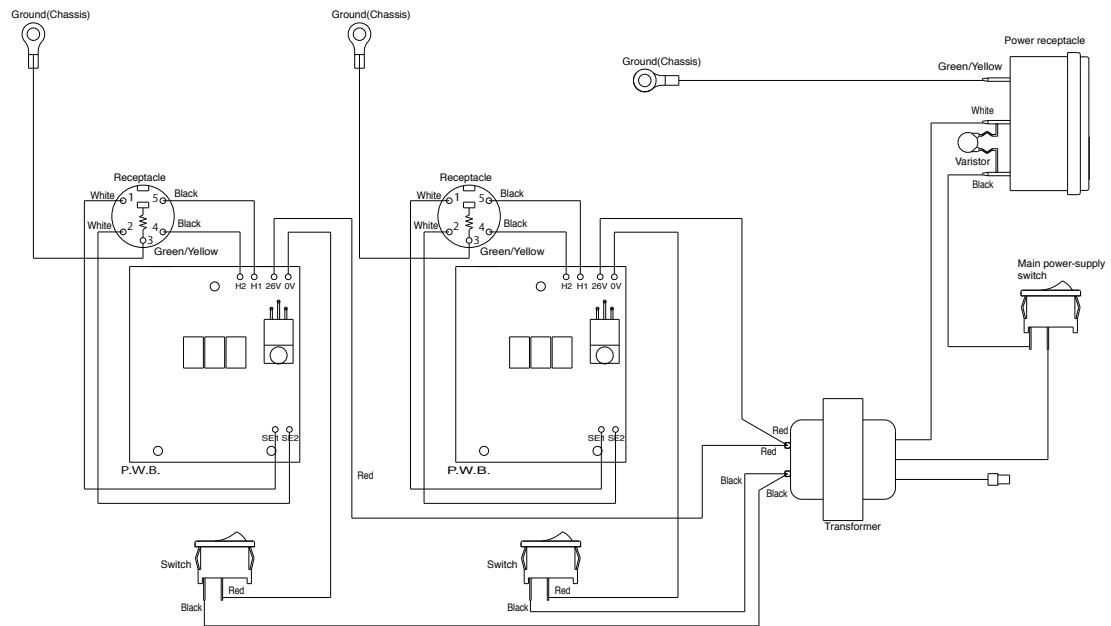T18-D24 SHAPE-2.4D

T18-I SHAPE-I

T18-K SHAPE-K

* Tinned on the soldering surface only.

● Use only genuine Hakko soldering iron tips. Replacement tips for the HAKKO FX-889 are designated the T18 series.

14. WIRING DIAGRAM

Ground(Chassis)

Ground(Chassis)

Ground(Chassis)

Power receptacle

Green/Yellow

White

Varistor

Black

Receptacle

White
White
Black
Black
Green/Yellow

H2 H1 26V 0V

SE1 SE2

P.W.B.

Receptacle

White
White
Black
Black
Green/Yellow

H2 H1 26V 0V

SE1 SE2

P.W.B.

Main power-supply switch

Red
Red
Black
Black

Transformer

Switch

Red

Black

Red

Switch

Red

Black

Red

※ 各言語（日本語、英語、中国語、フランス語、ドイツ語、韓国語）の取扱説明書は以下のURL、HAKKO
　Document Portalからダウンロードしてご覧いただけます。
　（商品によっては設定の無い言語がありますが、ご了承ください）

＊ 各國語言(日語,英語,中文,法語,德語,韓語)的使用説明書可以通過以下网站的HAKKO Document Portal 下載參閱。
(有一部分的產品沒有設定外語對應,請見諒)

* Instruction manual for the language, Japanese, English, Chinese, French, German and Korean can be
  downloaded from the following URL, HAKKO Document Portal.
  (Please note that some language may not be available depending on the product.)

https://doc.hakko.com

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	×	○	○	○	○	○
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。