HAKKO
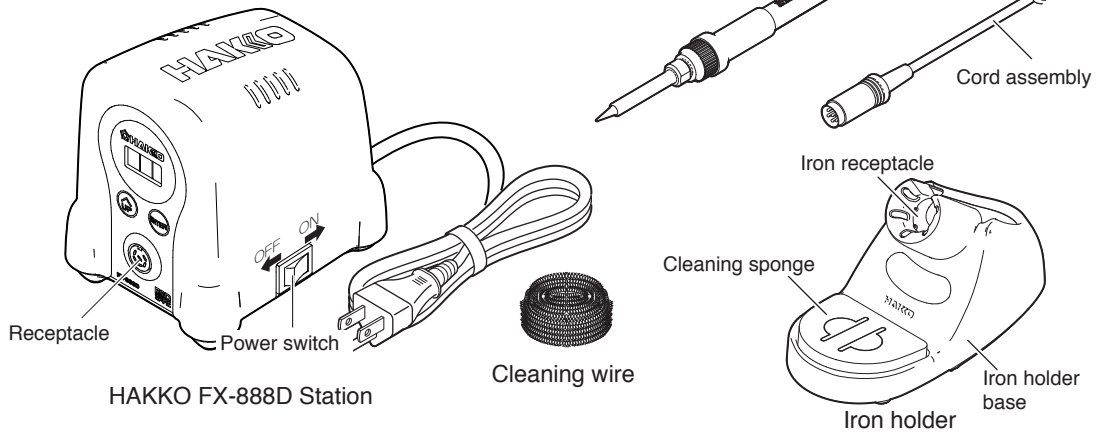
HAKKO FX-888D
SOLDERING STATION

Instruction Manual

Thank you for purchasing the HAKKO FX-888D soldering station.
Please read this manual before operating the HAKKO FX-888D.
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-888D Station 1
HAKKO FX-8801 Soldering iron 1
Iron holder (with cleaning sponge) 1
Instruction Manual 1

Cleaning wire 1

HAKKO FX-8801

Cord assembly

Iron receptacle

Cleaning sponge

Receptacle

Power switch

HAKKO FX-888D Station

Cleaning wire

Iron holder base

Iron holder

*HAKKO FX-8802 / FX-8803 / FX-8804 (not included) can be connected to HAKKO FX-888D station.
*When using the HAKKO FX-8802/FX-8803/FX-8804, please use it with the applicable iron holder.

2. SPECIFICATIONS

Power consumption	70W

● Station

Output voltage	AC 26V
Temperature range	400 - 899°F (200 - 480°C)
Temperature stability	±1.8°F (±1°C) at idle temperature
Dimensions (W × H × D)	3.9(W) × 4.7(H) × 4.7(D) in. (100 × 120 × 120 mm)
Weight (w/o cord)	2.6 lb. (1.2kg)

● HAKKO FX-8801 Soldering iron

Power consumption	65W (26V)
Tip to ground resistance	< 2 Ω
Tip to ground potential	< 2 mV
Heating element	Ceramic heater
Cord length	3.9 ft. (1.2m)
Total length (w/o cord)	8.5 in. (217mm) with 1.6D tip
Weight (w/o cord)	0.10 lb. (46g / 1.62 oz.) 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 charge 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. Two examples are given below.

⚠ WARNING

When power is ON, tip temperatures will be between 400 to 899°F. (200 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-888D.
● 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.
● If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid personal injury or damage to the unit.
● The unit is for a counter or workbench use only.

● **To prevent accidents or damage to the HAKKO FX-888D, be sure to observe the following:**

● Do not use the HAKKO FX-888D 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-888D.
● Use only genuine Hakko replacement parts.
● Do not allow the HAKKO FX-888D 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-888D, don't do anything which may cause bodily harm or physical damage.

4.INITIAL SETUP

A. Setup the iron holder
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.
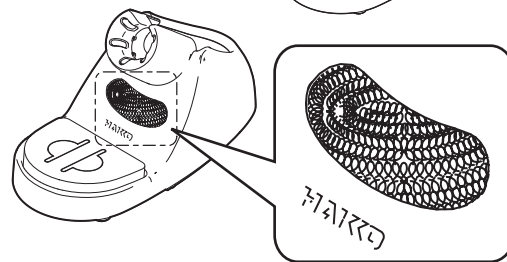3. Dampen the large sponge and place it on the iron holder base.
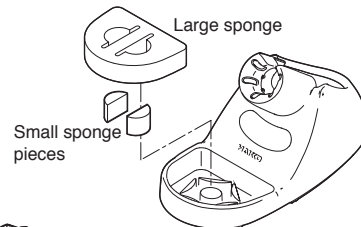
⚠ **CAUTION**
Be sure the sponge is moistened with water before use to avoid damaging the tip.

*When using a Cleaning Wire
 Place it in the iron holder as shown on the right. See "2.Using a Cleaning Wire" in section "7. MAINTENANCE"

B. Connect the iron to the station

⚠ **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.

1. Connect the cord assembly to the receptacle.

⚠ **CAUTION**
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.

2. Place the iron into the iron holder.
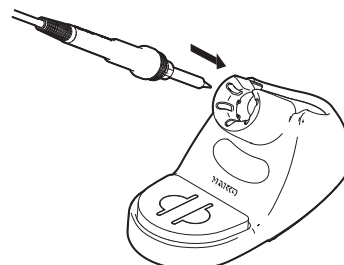3. Plug the power cord into an appropriate power supply.

⚠ **CAUTION**
The unit is protected against electrostatic discharge and must be grounded for full efficiency.

5. OPERATION

● Operation and indication
Switch and control button
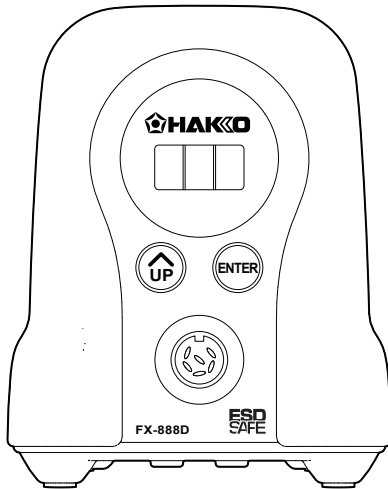
FX-888D

The front panel for the FX-888D has the following two control buttons.

(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. Turn on the power switch

After turning on the power switch, 8.8.8. will be displayed

for two seconds, and current temperature will be displayed.
When the display stabilizes, the LED heater lamp will begin to flash.

Heater lamp

> ⚠ **CAUTION**
> Place the iron in the iron holder when not in use.
> Turn the power off when the FX-888D is not in use for an extended period.

B. After use
Always clean the tip and coat it with fresh solder after use.

■ Making Changes to Settings

● Changing the set temperature

There are two ways to change the setting temperature : normal mode or preset mode.
The temperature setting range is from 400 to 899°F. (from 200 to 480°C)
By default, the temperature is set to 750°F. (399°C)

● The normal mode
Example : Changing from 750°F to 800°F

Hold down the (ENTER) button for at least one second.

Press the (UP) button once.

Press the (ENTER) button once.

Press the (UP) button five times.

Press the (ENTER) button once.

Press the (ENTER) button once.
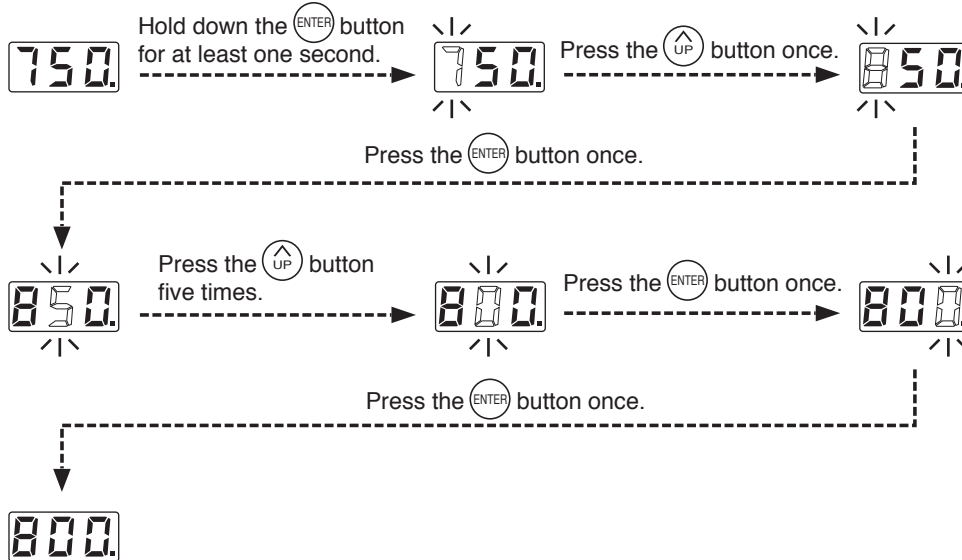
The desired temperature is saved to the system memory.
Heater control will begin after the new set temperature is displayed.

● The preset mode
The FX-888D 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°C) to No.3(750°C).

Press the (UP) button once.

Be displayed alternately.

*Preset selection screen

Press the (UP) button twice.

Be displayed alternately.

Press the (ENTER) button once.
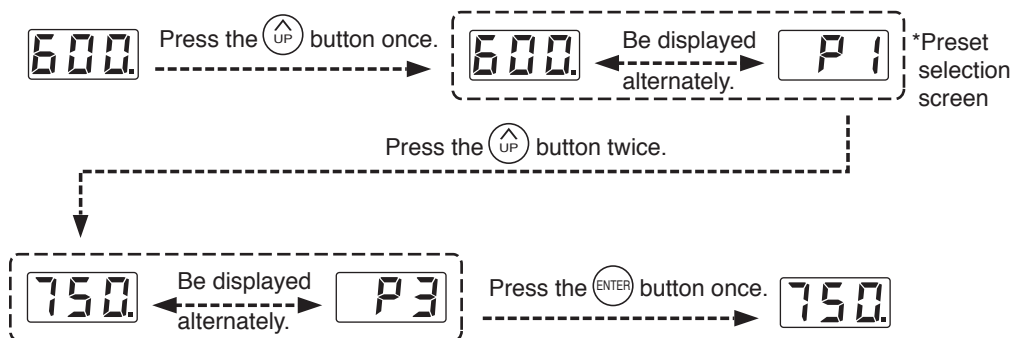
Heater control will begin with new preset temperature.

The procedure for making changes to the preset temperatures is the same as changing the set temperature in normal mode.

5. OPERATION

● 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 ±270°F (150°C) relative to the set temperature.
  If a larger adjustment is needed, make the first adjustment at the maximum value of 270°F (150°C),
  then repeat the adjustment process.

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

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

● The hundreds digits in the display will begin
   to flash when shifting to the adjustment mode.
   It indicates that you can enter the value.

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.

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* 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

`8.0.0.`   `8.0.0.`
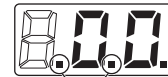
Identification lamps are on
in the adjustment mode.

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

5. OPERATION

● 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")

350. Hold down the (ENTER) button
      for at least two seconds. → ⊖ - -   Press the (UP) button once. → A - -

Press the (ENTER) button once.

- ⊖ -   Press the (UP) button twice. → - b -   Press the (ENTER) button once. → - - ⊖

Press the (UP) button three times.

- - C   Press the (ENTER) button once. → 350.

⚠ **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.
(In the above example, please refer to the procedure for setting the temperature
in normal mode [Section 5 - OPERATION].)

6. PARAMETER SETTING

The FX-888D 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 *		2P (2 pcs) ~ 5P (5 pcs)	5P
Password setting	14	0 : Open / 1 : Partial / 2 : Restricted	0
Temperature setting mode **		1 0 : ○ / 1 1 : ×	1 1
Preset selection mode **		2 0 : ○ / 2 1 : ×	2 0
Adjust mode **		3 0 : ○ / 3 1 : ×	3 1
Password ***		AbCdEF Select three letters	-

*It is displayed only when "1:Preset mode" is selected in the setting mode.

**It is displayed only when "1:Custom" is selected in the password setting.

***It is displayed only when either "1:Custom" or "2:valid" is selected in the password setting.

The HAKKO FX-888D has the following four parameters. Turn the power on while pressing the (UP) button.

Perform the setting to select the desired parameter No..

Press the (UP) button to change the values, and press the (ENTER) button to execute.

● 01 : °C or °F temperature display seletion

The displaed 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 Restricted, perform the setting for password. If selecting 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.

6. PARAMETER SETTING

■ **Parameter entering mode**

● **°C or °F temperature display selection**

1. Either $\boxed{C}$ or $\boxed{F}$ will be displayed if you press the (ENTER) button when $\boxed{0\ 1}$ is displayed.

2. $\boxed{C}$ and $\boxed{F}$ will be switched alternately if you press the (UP) button.

3. The display will return to $\boxed{0\ 1}$ if you press the (ENTER) button after selecting.

● Low temperature error setting

1. Press the (UP) button to change the display to $\boxed{0\ 3}$.

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

3. The display will return to $\boxed{0\ 3}$ if you press the (ENTER) button after setting.

● **Setting mode selection**

1. Press the (UP) button to change the display to $\boxed{1\ 1}$.

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

3. The display will return to $\boxed{1\ 1}$ if you press the (ENTER) button after selecting.*

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
* 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, $\boxed{3P}$ 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 $\boxed{1\ 1}$ if you press the (ENTER) button after selecting.

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
6. PARAMETER SETTING

● **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 password 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 482°F (250°C).
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.

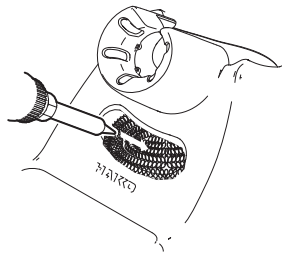| ⚠ CAUTION |
|---|
| **Do not file the tip in an attempt to remove the black oxide.** |

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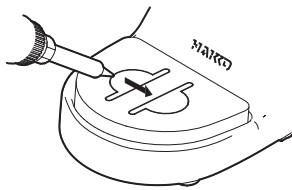
Use the cleaning sponge that comes with the product to clean the tip. It offers wide-ranging uses, from simple removal of excess solder to complete elimination of matter occurring as a result of oxidization.

2. Using the cleaning wire

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

8. CHECKING PROCEDURE

Disconnect the plug of the cord assembly and measure the resistance value between the pins 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
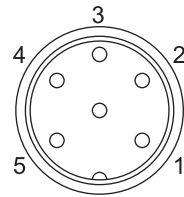
Buff lightly.
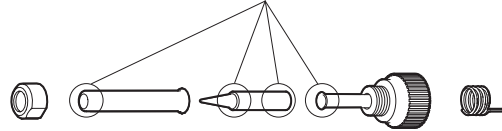
1. Broken Heating Element/Sensor

● <u>Disassembling</u>
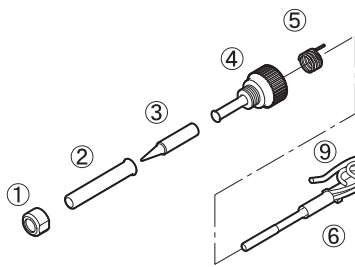
Heating element resistance (red)   Sensor resistance (blue)
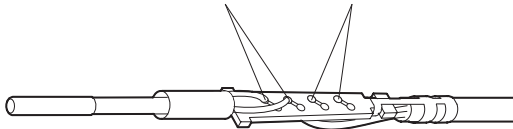
1. Turn the nut ① counterclockwise and remove the tip enclosure ② and the tip ③.
2. Turn the nipple ④ counterclockwise and remove it from the iron.
3. Pull both the heating element ⑥ and the cord assembly ⑦ out of the handle ⑧. (Toward the tip of the iron).
4. Pull the grounding spring ⑤ out of the sleeve of the terminal ⑨.
   * 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.)
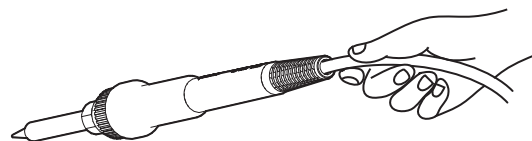
After replacement
① Measure the resistance between pins 4 and 1, 4 and 2, 5 and 1, and 5 and 2. If it is not ∞, the heating element and sensor are touching. This will damage the circuit board.
② Measure the resistance "a," "b," and "c" to confirm that the leads are not twisted and that the grounding spring is properly connected.

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

1. Turn the unit ON and set the temperature 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.

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

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.

9. TROUBLE SHOOTING GUIDE

⚠ WARNING
•Before checking the inside of the FX-888D or replacing parts, be sure to disconnect the power plug. •If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid personal injury or damage to the unit.

● 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 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?
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.
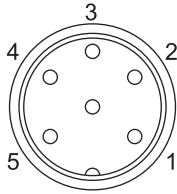
CHECK : Is the cord assembly broken? Is the heating element/sensor broken?
ACTION: If the cord assembly is broken, replace the HAKKO FX-8801. If the heating element / sensor is broken, replace the heating element.

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 $H\text{-}\mathcal{E}$ is displayed.

CHECK : Is the heater broken?
ACTION: If the heater is broken, replace the heating element.

● 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.

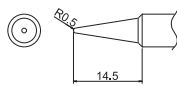● The tip doesn't hold the desired temperature.
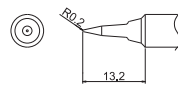
CHECK : Is the iron temperature adjusted correctly?
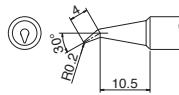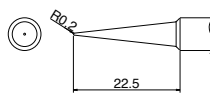ACTION: Perform the temperature adjustment.

10. TIP STYLES

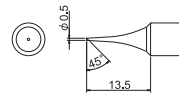T18-B SHAPE-B

R0.5
14.5

T18-SB SHAPE-SB

R0.2
13.2

T18-BR02 SHAPE-0.2BR

4
30°
R0.2
10.5

T18-BL SHAPE-BL

R0.2
22.5

T18-C05 SHAPE-0.5C

φ0.5
45°
13.5

T18-C08 SHAPE-0.8C

φ0.8
45°
15.5
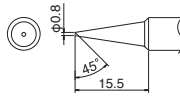
T18-C1 SHAPE-1C
T18-CF1*

φ1
60°
13.5

T18-CF15* SHAPE-1.5C

φ1.5
60°
13.5
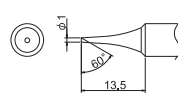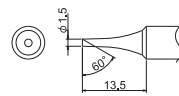
T18-C2 SHAPE-2C
T18-CF2*

φ2
45°
14.5
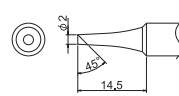
T18-CSF25* SHAPE-2.5CS

φ2.5
45°
10
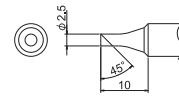
T18-C3 SHAPE-3C
T18-CF3*
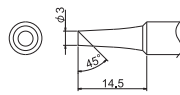
φ3
45°
14.5

T18-C4 SHAPE-4C
T18-CF4*
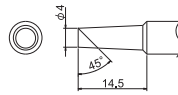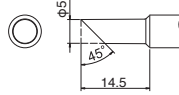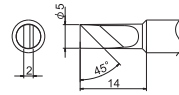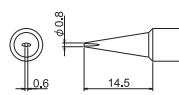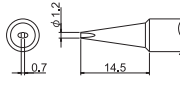
φ4
45°
14.5

T18-C5 SHAPE-5C

φ5
45°
14.5

T18-K SHAPE-K

φ5
45°
2
14

T18-D08 SHAPE-0.8D

φ0.8
0.6
14.5

T18-D12 SHAPE-1.2D

φ1.2
0.7
14.5

T18-D16 SHAPE-1.6D

φ1.6
0.5
14.5

T18-D24 SHAPE-2.4D

φ2.4
0.5
14.5

T18-D32 SHAPE-3.2D

φ3.2
0.5
14.5

T18-DL12 SHAPE-1.2DL

φ1.2
0.7
22.5

T18-DL2 SHAPE-2DL

φ2
1
22.5

T18-DL32 SHAPE-3.2DL

φ3.2
1
22.5

T18-S3 SHAPE-S3

φ5.2
1
18

T18-S4 SHAPE-S4

R0.125
14.5

T18-S6 SHAPE-S6

φ1.3
60°
16.5

T18-S7 SHAPE-S7

φ1.2
60°
14.5

T18-S9 SHAPE-S9

φ1.2
0.4
15.5

T18-IS SHAPE-IS

R0.2
11

T18-I SHAPE-I

R0.2
14.5
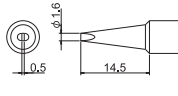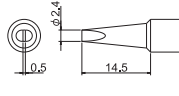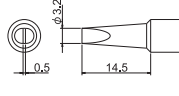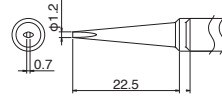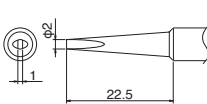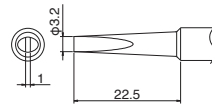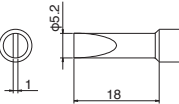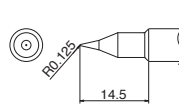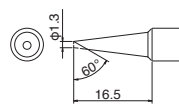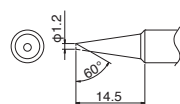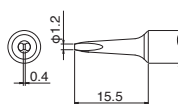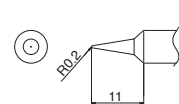
* Tinned on the soldering surface only.
● Use only genuine Hakko soldering iron tips. Replacement tips for the HAKKO FX-888D are designated the T18 series.

11. PARTS LIST

Sems screw
M4 × 6(2) P2

Pan-head screw
w/ spring washer
M4 × 38(4)

Externally
toothed
washer
Nominal 4 (1)

Nut

Sems screw
M3 × 14(2) P2

Tapping screw
Nominal 3 × 12(4) ; P tightening

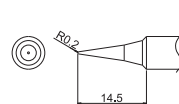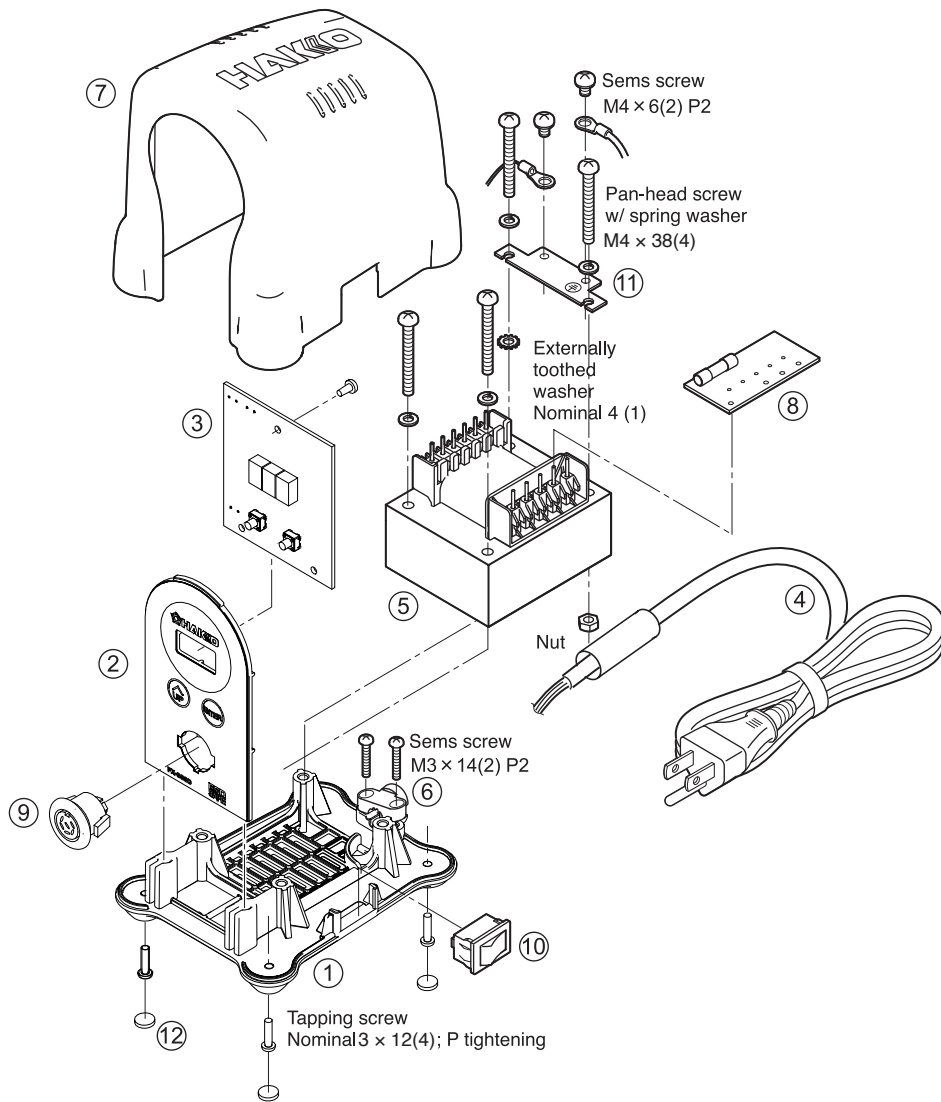● HAKKO FX-888D Station

Item No.	Part No.	Part Name	Specifications
①	B3733	Chassis	
②	B3734	Front panel / Yellow	For BY
	B3735	Front panel / Gray	For SV
③	B3736	P.W.B	For temperature control
④	B3741	Power cord, 3 wired cord & American plug	With tube, USA
	B3742	Power cord, 3 wired cord but no plug	With tube
	B3743	Power cord, 3 wired cord & BS plug	With tube
	B3744	Power cord, 3 wired cord & European plug	With tube, CE
	B3745	Power cord, 3 wired cord & BS plug	With tube, CE
	B3746	Power cord, 3 wired cord & Australian plug	With tube
	B3747	Power cord, 3 wired cord & Chinese plug	With tube
	B3748	Power cord, 3 wired cord & SI plug	With tube
	B3749	Power cord, 3 wired cord & American plug (B)	With tube

Item No.	Part No.	Part Name	Specifications
⑤	B3737	Transformer	100-110V
	B3738	Transformer	120V
	B3739	Transformer	220-240V
⑥	B3750	Cord stopper	
⑦	B3450	Upper case / BY	
	B3452	Upper case / SV	
⑧	B3721	P.W.B / 100V	With fuse and rubber feet
	B3722	P.W.B / 110 -120V	With fuse and rubber feet
	B3680	P.W.B / 220V	With fuse and rubber feet
	B3723	P.W.B / 230V	With fuse and rubber feet
	B3724	P.W.B / 240V	With fuse and rubber feet
⑨	B3463	Receptacle	
⑩	B2852	Switch	
⑪	B2227	Grounding plate	
⑫	B2405	Rubber feet	

11. PARTS LIST
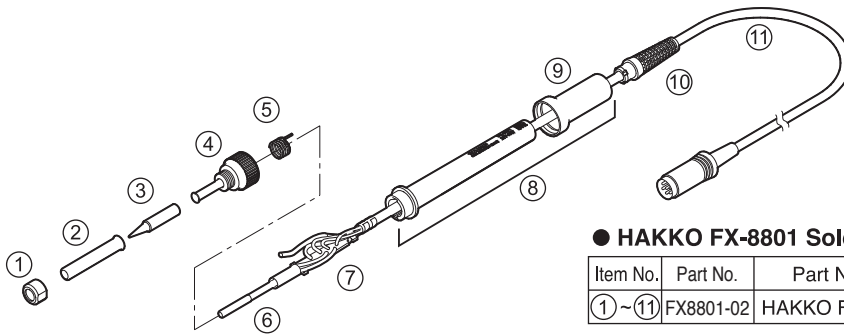
● HAKKO FX-8801 Soldering Iron

Item No.	Part No.	Part Name	Specifications
①~⑪	FX8801-02	HAKKO FX-8801	

● Soldering Iron Parts

Item No.	Part No.	Part Name	Specifications
①	B1785	Nut	
②	B3469	Tip enclosure	
③		Tip	See "8. 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	

● HAKKO FH-800 Iron Holder

Item No.	Part No.	Part Name	Specifications
①~⑤	FH800-01BY	HAKKO FH-800	Blue-Yellow
①~⑤	FH800-01SV	HAKKO FH-800	Silver

● Iron Holder Parts

Item No.	Part No.	Part Name	Specifications
①	A1559	Cleaning sponge	
②	B3472	Iron holder base	Blue-Yellow with rubber feet
②	B3473	Iron holder base	Silver with rubber feet
③	B3474	Rubber cleaner	
④	B3475	Bottom plate	With rubber feet
⑤	B3476	Slide lock	
⑥	A1561	Cleaning wire	
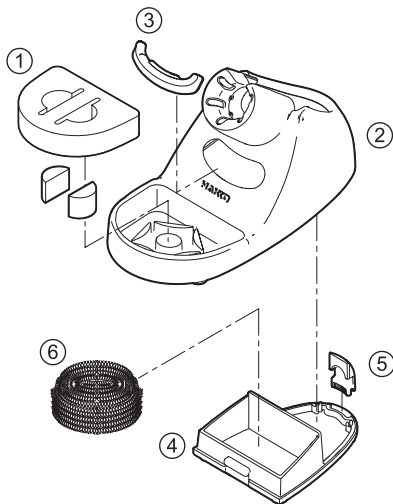
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（商品によっては設定の無い言語がありますが、ご了承ください）

＊ 各國語言(日語,英語,中文,法語,德語,韓語)的使用說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 in the language of Japanese, English, Chinse, French, German and Korean can be downloaded from the HAKKO Document Portal.
(Please note that some languages may not be available depending on the product.)

https://doc.hakko.com