HAKKO

HAKKO FT-800

THERMAL WIRE STRIPPER

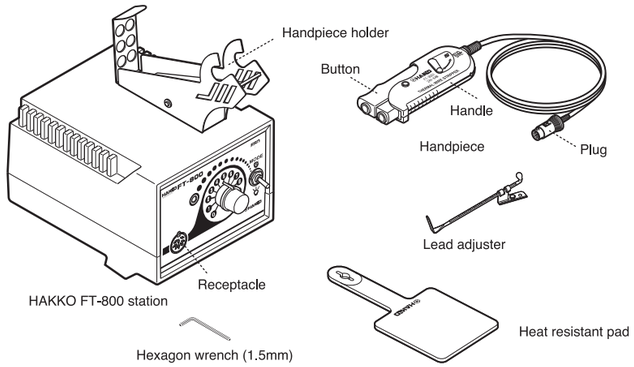
Instruction Manual

Thank you for purchasing the HAKKO FT-800 thermal wire stripper.
Please read this manual before operating the HAKKO FT-800.
Keep this manual readily accessible for reference.

1. PACKING LIST AND PART NAMES

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

HAKKO FT-800 station	1	Hexagon wrench (1.5mm)	1
Handpiece	1	Heat resistant pad	1
Lead adjuster	1	Instruction manual	1



* Blades are optional parts.

2. SPECIFICATIONS

Power Consumption	68W
Temperature range	200 to 800°C (392 to 1472°F)

● Station

Output	24V
Dimensions	120(W) × 93(H) × 170(D)mm (4.7 × 3.7 × 6.7 in.)
Weight (w/o cord)	1.3kg (2.9lbs)

● HAKKO FT-8001 (Handpiece)

Power Consumption	64W (24V)
Length of Cord	1.3m (4.3 ft.)
Length (w/o cord)	140mm (5.5 in.)
Weight with G1-1606 (w/o cord)	31g (1.1 oz.)

* Specifications and design are subject to change without notice.

NOTE:
* This product is protected against electrostatic discharge.

⚠ CAUTION
This product includes such features as electrically conductive plastic parts and grounding of the handpiece and station as measures to protect ESD sensitive components 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.

※ 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。
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(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)
焊鐵座	×	○	○	○	○	○
控制杆	×	○	○	○	○	○
插頭	×	○	○	○	○	○
電路板	×	○	○	○	○	○
套管	×	○	○	○	○	○

○： 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。

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3. WARNINGS, CAUTIONS AND NOTES

⚠ WARNING

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.

NOTE : A NOTE indicates a procedure or point that is important to the process being described.

● Observe the following precautions to ensure safety.

⚠ CAUTION

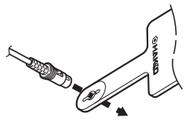
After the power is turned on, the blade temperature reaches approx. 200°C to 800°C (392°F to 1472°F). Improper handling may cause burns or fire. Be sure to observe the following precautions:
- Do not touch any metal area in the vicinity of blades.
- Never use HAKKO FT-800 near paper or other flammable materials.
- Inform others in the area that the product is hot and should not be touched.
- Turn the power off when not in use.
- Before changing parts or storing the unit, be sure to turn the power off and allow the unit to cool to room temperature.
- 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.

● Observe the following precautions to prevent accidents or damage to the unit.

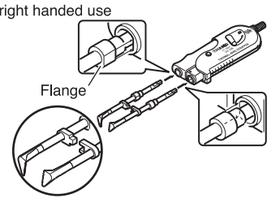
- Do not use the HAKKO FT-800 for applications other than wire stripping.
- To remove stripped insulation waste, do not apply excessive force to the unit such as striking the blade against the workbench.
- Do not modify the HAKKO FT-800.
- Do not allow the HAKKO FT-800 to become wet, and do not use it with wet hands.
- Since smoke is produced when using the wire stripper, be sure to ventilate the work area fully.
- Do not take any actions that might be dangerous.

4. ASSEMBLY

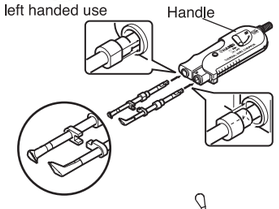
● Connection cord
Pass the connection cord through the hole of the heat resistant pad.



For right handed use



For left handed use

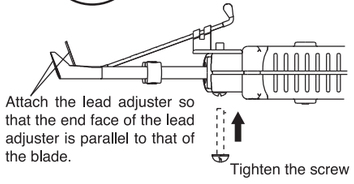


● Installing the blades
1. Install the blades into the handpiece in the correct direction as shown in the figures.
2. When attaching the blades, press them firmly until the flange is locked into the handpiece.

NOTE:
- Unless both blades are inserted fully, the blades will not heat. Verify the flange of the blade comes in contact with the handpiece.
- After installing an optional blade set close the handle two or three times to check the engagement of both blades.

● How to attach the lead adjuster
Make sure to fit the blades in correct direction when attaching the lead adjuster. (Refer to the right figure.)

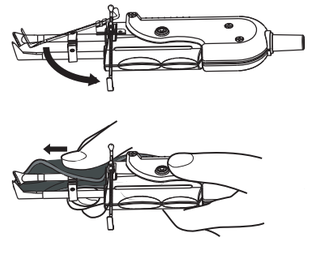
When fixing the lead adjuster tighten the attaching screw from the reverse side of the screw.



● Removing the blades
1. Turn off the power and allow the blades to cool.
2. To avoid interference with the blade, turn the lead adjuster to the direction opposite to the blade to be removed .
3. After the blades have cooled down, use the heat resistant pad to grasp one blade at a time and pull it from the handle.

⚠ CAUTION

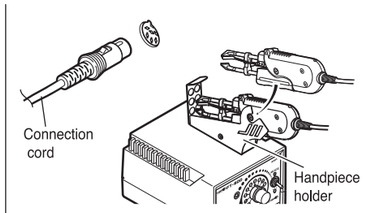
- Before changing blades, be sure to turn the power off and allow the blades to cool to room temperature.
- Be sure to use the heat resistant pad even when the blade is not hot.
- Install or remove one blade at a time.



4. ASSEMBLY

● Connection
1. Connect the plug of the connection cord to the receptacle.
2. Place the HAKKO FT-8001 in the handpiece holder.
3. Insert the power plug into the plug outlet.

⚠ CAUTION
Turn off the power before inserting or removing the plug of the connection cord from the receptacle. The P.W.B. may be damaged if the power is left on when inserting or removing the plug.



NOTE:
The HAKKO FT-8001 can be placed in the handpiece holder with the heater lamp facing upward or downward.

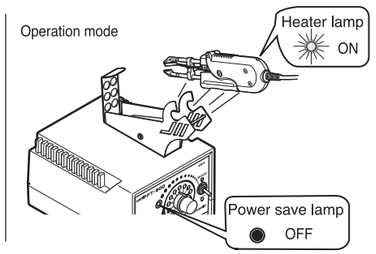
5. OPERATION

● Turn on the power switch.

● Operation mode
When using the HAKKO FT-8001, take the HAKKO FT-8001 out of the handpiece holder. When the temperature stabilizes, the heater lamp will change from flashing to being continuously lit.
Now, you can start wire stripping work.

Status of lamps during the operation mode

HAKKO FT-800	Power save lamp	OFF
HAKKO FT-8001	Heater lamp	ON



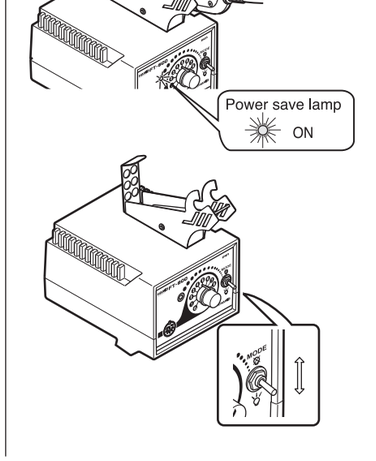
● Power save mode
When the HAKKO FT-8001 is placed in the handpiece holder, the power save mode is on. When in the power save mode, the blade temperature is reduced by approx.50%.

Status of lamps during the power save mode

HAKKO FT-800	Power save lamp	ON
HAKKO FT-8001	Heater lamp	Flashing

Switching the power save mode
The HAKKO FT-800 is equipped with a switch to turn on and off the power save mode.
1. When the power save mode switch is set to ☼ The blade temperature is reduced while the handpiece is in the handpiece holder.
2. When the power save mode switch is set to ▩ The blade temperature is maintained while the handpiece is in the handpiece holder. Use this setting when stripping multiple wires.

⚠ CAUTION
When the power save mode switch is set to ▩, the handpiece will maintain its temperature while in the handpiece holder.
Blade life will be reduced when the power save mode is ▩. Be sure to set the power save mode switch to ☼ except when using the unit continuously.



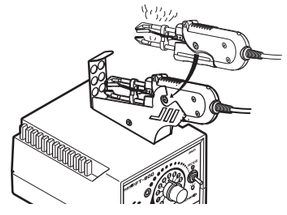
● Temperature setting
1. Set the temperature adjustment knob to the desired level.

Material	Min. level	Temperature
PVC, Nylon, Polyethylene sheathed wires	1	Approx. 200°C (392°F)
Teflon, Silicon sheathed wires	7	Approx. 600°C (1112°F)

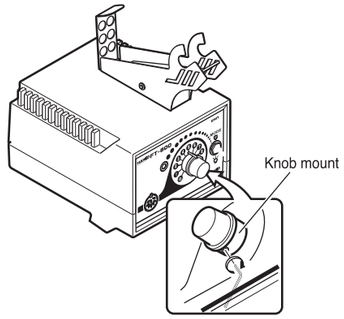
NOTE:
Aging of the blade heater may deteriotate the blade performace. If such a deterioration results in a difficulty in melting the wire insulation, use the temperature adjustment knob to raise the temperature setting of the blade.

⚠CAUTION
Since the temperature of the blade is very hot, place the HAKKO FT-8001 in the handpiece holder when not using it.

NOTE:
The blade temperature is determined for each level as a reference, not as a guaranteed temperature. The actual blade temperature will decrease gradually with the aging of the blades.
When the actual blade temperature decreases, use the temperature adjustment knob to raise the temperature setting of the blade.



2. Locking the temperature adjustment knob. The temperature adjustment knob is equipped with a lock function. (Refer to the figure at right.)
After setting the temperature, tighten the hexagon nut (clockwise) in the knob mount with the hexagon wrench



⚠CAUTION
Do not tighten the hexagon nut excessively.

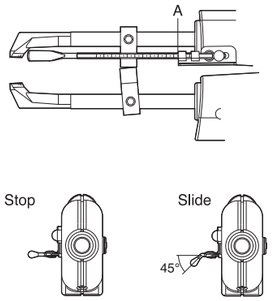
⚠CAUTION
Do not attempt to turn the temperature adjustment knob with the knob locked.

● **Lead adjuster attachment**

You can adjust stripping length in 1mm steps from the point of "A" in the figure.

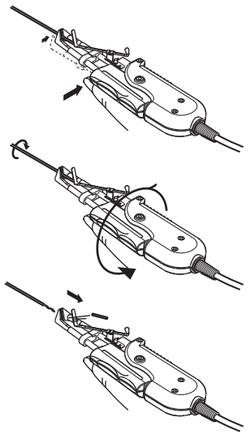
Stripping length: 1-26mm

NOTE:
To change the lead adjuster length turn it at a 45° angle (see drawing on the right) then slide the adjuster to the correct length. Turn the adjuster back 45° to secure it in place.



● **Removing wire insulation**

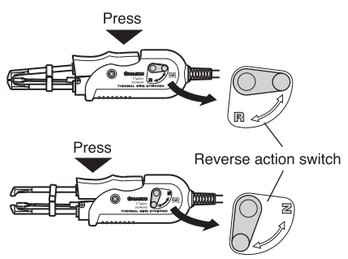
1. Align the wire end to the lead adjuster.
2. Pinch the wire in the proper hole between the blades in accordance with the wire diameter. The pinched section will be melted by the heated blades.
3. Turn the wire and blade to spread the heat uniformly over the insulation.
4. Slide the blade toward the end of the insulation.



● **Use of reverse action switch**

By operating the reverse action switch, the blade opening or closing conditions can be selected according to your work details.

- When the indication mark "R" is displayed:
  The blades are closed and can be opened by pressing the back of the button.
- When the indication mark "N" is displayed
  The blades are in normal position and can be closedby pressing the front side of the button.



6. MAINTENANCE

Performing proper and periodic maintenance ensures proper operation of the tool and extends the product life. Apply the following service procedure as dictated by the conditions of the usage.

● **Blade**

1. Maintenance

If the blades become oxidized, it will be difficult to melt the insulation. Remove oxide and stripped insulation waste from the blades with a wire brush. Use light pressure when cleaning the blades. Excessive pressure can damage the blades and shorten blade life.

Do not clean the blades when they are hot.

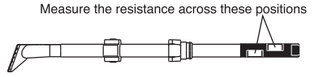
2. Interruption

When not using the unit, be sure to place it in the handpiece holder and set the power save mode switch to . Operating the blades at high temperature without stripping insulation for extended time may shorten the heating element life. If you will not use the unit for a long time, turn off the power switch.

● **Check**

⚠WARNING
Unless otherwise specified, turn off the power switch and pull the powerplug out before performing the following procedures.

■ **Disconnection of heating element**



Check the heating element for electric error.
Measure the heater element at room temperature (15 to 25°C; 59 to 77°F).
Normal detection is 4.6Ω ±10%. If resistance value is abnormal, replace the blade with a new one.

■ **Continuity check**



1. Attach normal blades (with normal heater resistance) to both handles.
2. Measure the resistance between the connector pins.
   Between pin 1 and pin 5: 8.1 to 9.9Ω.
   If the resistance value is different from the above figures, replace the HAKKO FT-8001.

● **How to replace the fuse**

Desolder the fuse and replace it with a new fuse. (Refer to the figure in "Parts list".

7. TROUBLE SHOOTING GUIDE

⚠ WARNING

- **Before repairing the unit, be sure to disconnect the power plug. Failure to do so may cause electric shock.**
- **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 does not operate even when the power switch is turned on.**

CHECK : Is the power cord or the connection plug disconnected?
ACTION : Connect the power cord and the connection plug.
CHECK : Is the fuse blown?
ACTION : Investigate why the fuse blew and then replace the fuse. Even if the cause can not be determined, replace the fuse. If the fuse blows again, send the entire unit for repair.

● **The power save lamp flashes.**

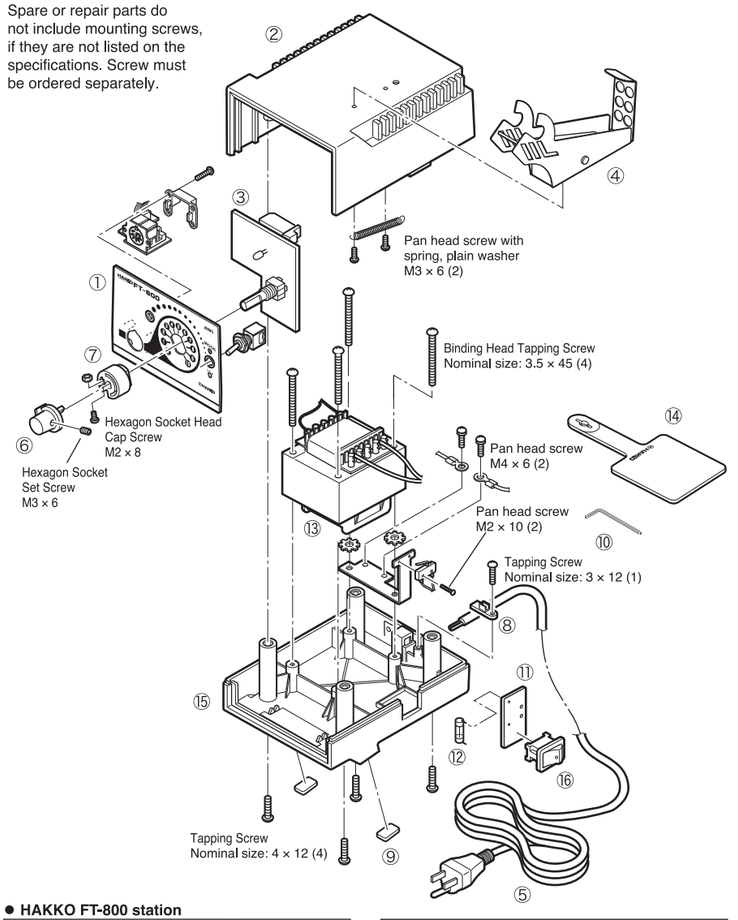
CHECK : Are the blades inserted firmly?
ACTION : Insert the blades fully.
CHECK : Is the connection cord disconnected? Is the heating element broken?
ACTION : Refer to how to check the disconnection of connection cord and breakage of the heating element.

● **The power save lamp flashes 2 times consecutively.**

ACTION : Turn on the power switch again.
: If the same phenomenon occurs again, it is assumed that the unit has undergone a system error. Return the unit for repair.

8. PARTS LIST

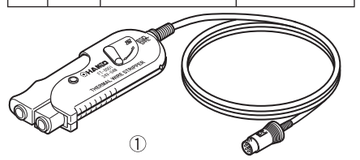
NOTE:
Spare or repair parts do not include mounting screws, if they are not listed on the specifications. Screw must be ordered separately.



● **HAKKO FT-800 station**

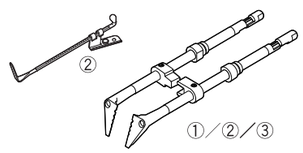
Item No.	Part No.	Part Name	Specifications
①	B3078	Panel	
②	B3079	Upper case	
③	B3080	P.W.B.	For control
④	B3081	Handpiece holder	with screw, spring
⑤	B1318	Power cord, 3 wired cord but no plug	
	B1319	Power cord, 3 wired cord & American plug	U.S.A.
	B2327	Power cord, 3 wired cord & European plug	CE
	B2098	Power cord, 3 wired cord & BS plug	
	B2486	Power cord, 3 wired cord & Chinese plug	
	B3504	Power cord, 3 wired cord & American plug	

Item No.	Part No.	Part Name	Specifications
⑥	B2004	Knob	
⑦	B2005	Knob mount	
⑧	B2015	Cord stopper	
⑨	B2016	Rubber stopper	Set of 2
⑩	B2017	Hex. wrench	1.5 mm
⑪	B2103	Wiring board for switch	
⑫	B2224	Fuse / 2A	UL
	B2303	Fuse / 0.63A	CE
⑬	B2836	Transformer	120V
	B2984	Transformer	220V
	B2985	Transformer	230V
⑭	B2300	Heat resistant pad	
⑮	B2838	Lower case	
⑯	B3583	Power switch	



● **HAKKO FT-8001 wire stripper**

Item No.	Part No.	Part Name	Specifications
①	FT8001-01	HAKKO FT-8001 / 24V-64W	
②	B3257	Lead adjuster	with screw



● **Optional parts**

Item No.	Part No.	Part Name	Specifications
①	G1-1606	Wire stripper blade bent	
②	G1-1607	Wire stripper blade bent	18-24 AWG
③	G1-1608	Wire stripper blade bent	26-36 AWG

