HAK«O

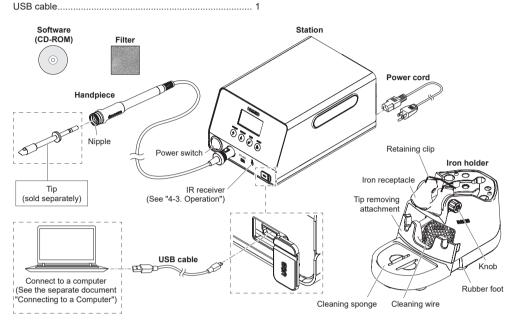
SOLDERING STATION **FX-805 Instruction Manual**

Thank you for purchasing a HAKKO product.

This product is a soldering iron station.

Make sure to read this manual before using the product, and keep it in a safe place for future reference.

Confirm the contents before use 1. Set contents and assembly *This product may differ from the following Station FX-805.. Software (CD-ROM) Handpiece FX-8004 Power cord . ¹Iron holder FH-220 Instruction manual (this document) (With cleaning sponge/wire) Instruction manual (Quick Parameter Settings / Connecting to a Computer) 1 Filter





3. Warnings, Cautions, and Notes

Warnings, cautions, and notes are placed at critical points in this manual to direct your attention to significant items. They are defined as follows:

A 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.

This indicates procedures or information that are important in a process described in this NOTE document.

Be sure to observe the following precautions to ensure safety.

WARNING

- 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 a 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.
- When this product is not used, place the handpiece on the iron holder.
- The tip reaches high temperatures when the power source is turned on. You may risk getting burned or causing a fire if mishandled.
- Do not touch the metal parts near the tip.
- Do not place anything that easily burns or ignites near the product.
- Make sure that people nearby are aware of the "high temperature danger."
- When the product is not in use, being repair, or being cleaned, turn off the power switch and disconnect the plug from the power outlet.

Failure to observe the following precautions to ensure safety might result in electric shock, malfunction or other trouble.

2. Specifications

Power consumption	460 W	
Temperature range	50 to 500°C (120 to 940°F)	
Temperature stability	At idle temperature: \pm 5°C (9°F)	

otation		
Output	AC 30 V	
Dimensions	143 (W) × 107 (H) × 218 (D) mm (5.6 × 4.2 × 8.6 in)	
Weight	3.9 kg (8.6 lb)	

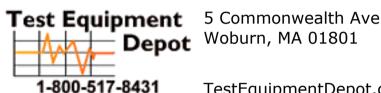
Handpiece				
Power consumption	390 W (30 V)			
Tip to ground resistance	< 2 Ω			
Leak voltage	< 2 mV			
Heating element	Composite heater			
Cord length	1.2 m (3.9 ft)			
Total length	244 mm (9.6 in) (with T37-D24 tip)			
Weight	54 g (1.9 oz) (with T37-D24 tip)			

This product is applied with electrostatic countermeasures

- Please note that specifications and appearance are subject to
- change without notice in the interest of product improve

Handling precautions for ESD Safe products

- This product contains electrostatic countermeasures, so please use the following precautions:
- 1. Not all plastic parts are insulators, they may be conductive. Be careful not to expose live electrical parts or damage insulating materials when performing repairs or replacing parts.
- 2. Be sure the product is grounded before use.



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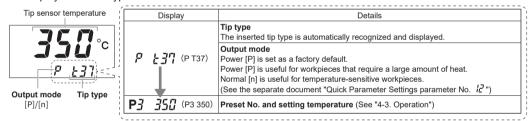
Knob

Tip insertion holder

4. Operation

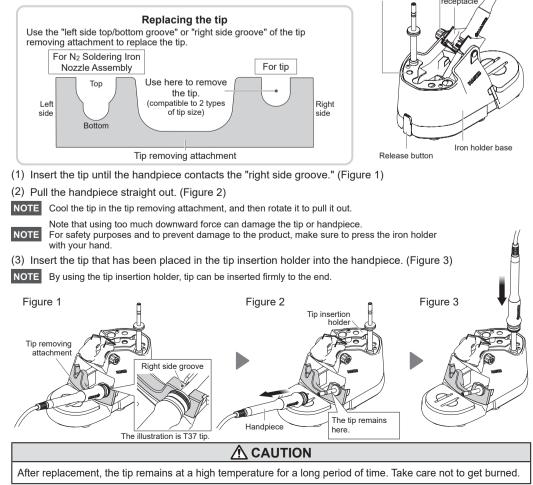
4-1. Station

With the tip installed into the handpiece and plugged into the station turn on the power switch. Below shows the display indication types.

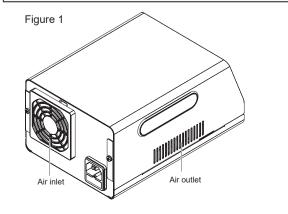


4-2. Iron holder

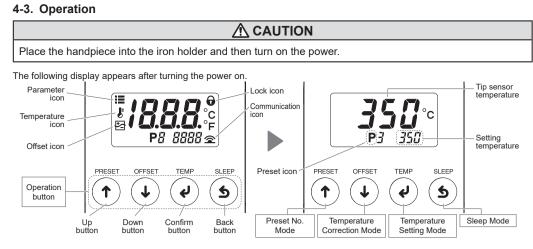
- \bullet The iron receptacle angle can be changed 45 \pm 10 degrees with the knob
- Make sure to wet the cleaning sponge before using it.
- The iron holder base can be removed by pressing the release button.
- The tip can be stored in the tip insertion holder.
- You can guickly and safely replace the tip using the iron holder.



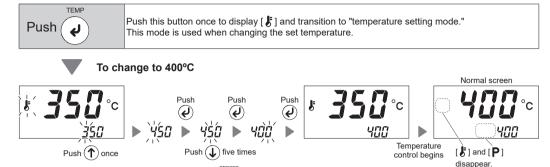
- Before using this product, fully read all descriptions in this document.
- Only use the product for soldering.
- Do not hit the handpiece against a workbench or subject it to strong shocks to remove solder residue.
- Soldering produces smoke, so make sure to work in a well-ventilated area.
- Do not block the station air inlet or outlet. (Figure 1)
- Use genuine HAKKO parts for included parts/replacement parts/options.
- Do not modify this product.
- Do not use damaged cords or plugs. Doing so can result in malfunction or injury.
- Do not use the product if it has been dropped or shows signs of damage.
- •When inserting and removing the cord, hold the plug body and do not pull the cord.
- Do not allow this product to get wet. Also, do not handle it with wet hands.
- Do not perform any other actions that may be considered to be dangerous.



4. Operation (cont'd)



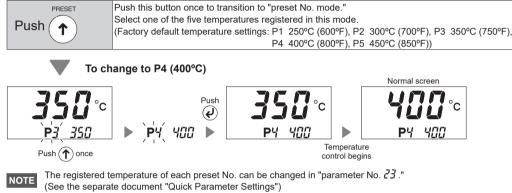
Changing the temperature setting



 $\sqrt[2]{}$ Once the normal screen appears, push the $\widehat{(\uparrow)}$ button to transition to preset No. mode.

Changing the preset No.

You can register up to five frequently used setting temperatures on the product, and then select the registration No. to change the setting temperature.



NOTE If you want to limit setting temperature changes, change the setting in "parameter No. *I*"." (See the separate document "Quick Parameter Settings")

5. Parameter Settings

You can change the parameter settings to suit different work environments. See the separate document "Quick Parameter Settings."

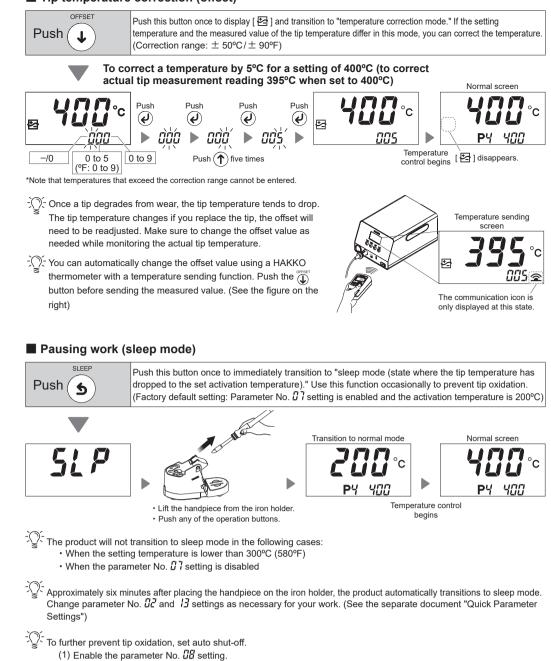
6. Maintenance

Do not file oxidation attached on the tip. This will shorten the tip lifespan.					
Conducting maintenance will help keep the product in good condition and prolong the usage of the unit.					
Daily maintenance					
Setting temperature	Using the product at a temperature that is higher than necessary can accelerate tip deterioration and damage parts that are susceptible to heat. Use the lowest temperature whenever possible.				
Before beginning work	Perform a visual check of the tip. Replace it if it is bent or considerably worn. Use the cleaning sponge to wipe off any oxidation or old solder from the tip. Impurities on a circuit board can result in poor soldering.				
When pausing work					
After finishing work	Thoroughly clean the tip with the cleaning sponge and then coat it with new solder. Doing so can prevent oxidation of the tip.				

Tip

Wear and tear on the tip will vary due to the operating temperature as well as the quality and amount of

Tip temperature correction (offset)



- (2) Set the time until the product is automatically shut-off in parameter No. l_{a}^{a}
 - The shorter the set time, the more effective it is.
 - If you disable the parameter No. 28 setting, the product will not automatically shut-off even when the set time has elapsed.

7. Troubleshooting

Before performing an inspection or replacing parts, make sure to disconnect the power plug from the outlet.						
No operation even if power switch is turned ON.	Has the power cord or connection plug been removed?		Plug unit into outlet.			
	Is the fuse blown?		Replace the fuse. If the fuse is blown again, send the main unit (including handpiece, power cord) back for service.			
[C - E] is displayed. Is an incompatible soldering iron connected? Or has the handpiece plug been removed?			Turn off the power switch, reconnect the handpiece, and turn the power switch back on again.			
[S - E] is displayed.	Is the tip fully inserted?		Insert tip firmly into the handpiece. (do not use excessive force)			
[t - E] is displayed.	Are you using a tip that is applicable with this product?		If not, replace it with a T37 or T33 series tip.			
Cannot get solder on the tip.	Is the tip setting temperature too high or too low?		Set an appropriate temperature.			
	Is there any oxidation on the tip?		Remove the oxidation. (See "6. Maintenance")			
The tip temperature is too high. The tip temperature is too low.	Is the offset value entered correct?		Measure and adjust the value. (See " ■ Tip temperature correction (offset)" in "4-3. Operation")			
The auto shut-off function does not work.	Is parameter No. 🖁 [OFF]?		Change it to [on] to enable feature.			

solder/flux used. Maintenance should be performed based on what suits your usage.

(1) Turn the power ON.

(2) Set the temperature to 250°C (482°F).

- (3) Once the temperature is stable, use the cleaning sponge to wipe the tip.
- (4) If there is any black oxidation on the solder plating, apply new solder containing flux and then wipe it off with the cleaning sponge. Repeat this process until the oxidation is removed. Afterward, coat it with new solder.
- (5) Turn the power off and remove the tip once it has cooled.

If you find flux, debris, and other particulates on anything other than the end of the tip, wipe it off with industrial alcohol.

Filte

Air inlet filter

Check the air inlet filter to make sure it is not clogged.

Clogging can cause the internal temperature of the station to rise, resulting in malfunction.

CAUTION

When replacing the filter, turn off the power switch and disconnect plug from the power outlet.

Handpiece

Remove flux, debris, and other particulates adhering to the nipple. It may cause contact failure inside the handpiece.

Iron holder

- Press down the release button and remove the iron holder base, then clean the collected solder waste from the iron holder.
- Rotate the cleaning wire as need to a clean side where solder is not accumulated.

