## 4. WARNINGS, CAUTIONS, NOTES AND EXAMPLES M 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

MARNING: 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

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

# A CAUTION

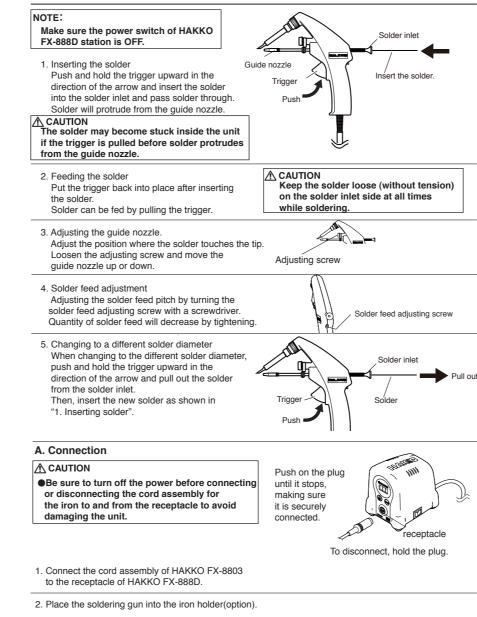
### When power is ON, tip temperature will be between 200°C and 480°C (400 to 900°F). To avoid injury or damage to personnel and items in the work area, observe the following :

- Do not touch the tip or 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-8803.
- 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 FX-8803 for applications other than soldering.
- Do not strike the gun against hard objects to remove excess solder. This will damage the gun.
- Do not modify the HAKKO FX-8803.
- Use only genuine HAKKO replacement parts.
- Do not allow the HAKKO FX-8803 to become wet, or use it when hands are wet.
- Remove power and iron cords by holding the plug. not the wires.
- Since smoke is produced when using the wire stripper, be sure the work area is well ventilated

# 5. OPERATION



# 5. OPERATION

The unit is now ready to perform soldering work.

# C. Calibration

Use the HAKKO FG-100 Thermometer or HAKKO FG-101 Soldering Tester to measure the tip temperature.

## D. Replacing the tip

the tip enclosure and tip.

NOTE : Do not loosen the nipple

2. Insert the new tip and tip enclosure into the HAKKO FX-8803 Tighten the nut firmly, and fix the tip.

# 6. MAINTENANCE

Tip temperature

## Cleaning

## When not in use

# After use

## Tip Maintenance

- 1. Set the temperature to 250°C.

- cool

A CAUTION



Please access to the following address for the other Sales affiliates. http://www.hakko.com

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Please make sure that all items listed

below are included in the package.

Use the HAKKO FX-8803 with the HAKKO FX-888/888D soldering station.

Soldering aun

Instruction Manual

Thank you for purchasing the HAKKO FX-8803 Soldering Gun.

This soldering gun has a built-in feeding mechanism that enables soldering with one hand.

Please read this manual before operating the HAKKO FX-8803.

Keep this manual readily accessible for reference.

When you use the HAKKO FX-8803 for the first time, note that calibration is required

**▲** CAUTION

before starting operation. Read the instruction manual for the station used in conjunction

1 Instruction manual

Solder inlet

Solder feed

adjusting screw

with the HAKKO FX-8803 soldering gun. When inserting the solder, push and hold the

trigger upward. Insert the solder until end of solder protrude from the guide nozzle.

1. PACKING LIST AND PART NAMES

Adjusting screv

Guide nozzle 'Support fitting

HAKKO FX-8803

AC26V 65W

200~480°C

Triager

<2mV (TYP. 0.6mV) Tip to ground potential T18-CF3 Standard tip Standard guide nozzle φ1.0 (Solder diameter) φ0.6, 0.8, 1.0, 1.2, 1.6 Usable solder diameter Cord assembly 1.1m 170(W)x180(H)x23(D) mm Dimensions (w/o cord) Weight (w/o cord) 207g

<20

NOTE: \*Specifications and design are subject to change without notice.

\*This product is protected against electrostatic discharge.

## Electrostatic Protection

҈нак«О

OVERSEAS AFFILIATES

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SINGAPORE: HAKKO PRODUCTS PTE., LTD. TEL: 6748-2277 FAX: 6744-0033

**MAK** 

HAKKO FX-8803

Tip

2. SPECIFICATIONS

**●HAKKO FX-8803** 

Power consumption

emperature range

Tip to ground resistance

(With T18-CF3)

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 around the unit during use.

3. Plug the power cord into the power supply.

※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,徳語,韓語)的使用説明書可以通過以下网站的HAKKO Document Portal 下載参閲。 (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.)

B. Turn on the power switch Turn on the power for HAKKO FX-888D soldering station. The heater lamp flashes as the tip comes up to the set temperature.

▲ CAUTION ●Place the HAKKO FX-8803 in the iron holder when not in use. •Turn the power off when not using the station for a long time.

Before using the HAKKO FX-8803, be sure to calibrate the station. (Refer to the HAKKO FX-888D instruction manual.)

1. Turn the nut counterclockwise, then remove

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

A WARNING Since the tip can reach a very high temperature, please work carefully Except where indicated, always turn the power switch OFF and disconnect the power plug before performing any maintenance procedure.

High temperatures shorten tip life and may cause thermal shock to components. Always use the lowest possible temperature. The excellent thermal recovery characteristics of the HAKKO FX-888D ensures effective soldering at low temperature.

Always clean the tip before use to remove any residual solder or flux adhering to it. Use a cleaning sponge or the HAKKO 599B tip cleaner. Contaminants on the tip may have negative effects, including reduced heat conductivity, which contribute to poor performance.

Never allow the unit to idle at a high temperature for extended periods. This will allow the tip to become oxidized. Turn the power switch OFF. If it is to be out of service for several hours, it is advisable to disconnect the power plug as well.

Always clean the tip and coat it with fresh solder after use. This guards against oxidation.

2. When the temperature stabilizes, clean the tip and

check the condition of the tip. If the tip is badly worn or deformed, replace it.

3. If the solder plated part of the tip is covered with black oxide, apply fresh solder,

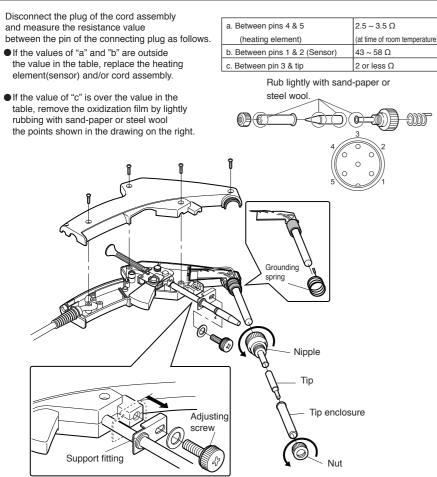
containing flux, and clean the tip again. Repeat until all the oxide is removed,

then coat the tip with fresh solder

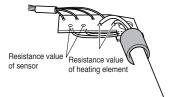
4. Turn the power OFF and remove the tip, using the heat resistant pad. Set the tip aside to

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

# 7. CHECK PROCEDURE



1. Broken heating element / sensor



1. Remove the adjusting screw and keep the support fitting apart from the housing. 2. Turn the nut counterclockwise and remove the tip enclosure and tip.

### **▲** CAUTION

Be sure to remove the nut before removing the nipple. Removing the nipple first could cause the heater leads to twist and cause a short circuit.

- 3. Turn the nipple counterclockwise and remove it from the gun.
- 4. Remove the 4 screws and open the housing.
- 5. Pull the grounding spring out of the sleeve.

\*Measure when the heating element is at room temperature.

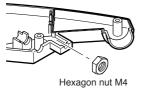
- 1. Heating element resistance (red) 2.5-3.5 Ω
- 2. Sensor resistance (blue) 43-58  $\Omega$
- If the resistance value is not normal, replace the heating element.
- (Refer to the instructions included with the replacement part.)

### 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.

### 

When reassembling, be sure to match the convex part of the hexagon nut to concave part of the housing



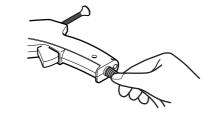
# 7. CHECK PROCEDURE

## 2. Broken cord assembly

There are two methods of testing the cord assembly as below.

1. Turn the power 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. If the LED heater lamp flashes, then the cord needs to be replaced.

The power lamp starts to flash when the temperature reaches 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

If it is higher than 0  $\Omega$  or  $\infty$ , the cord should be replaced.

## 8. TROUBLE SHOOTING GUIDE

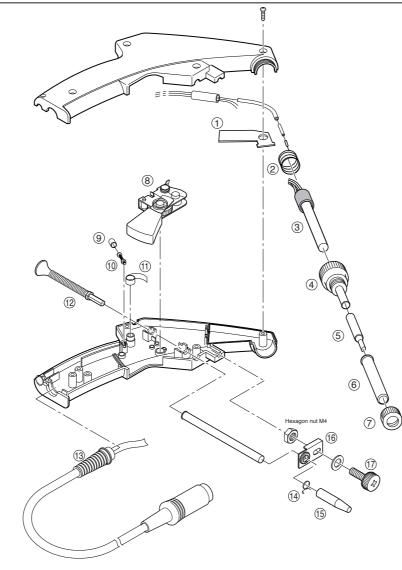
Solder gets stuck

CHECK : Do you pull solder from a reel when using the trigger? ACTION : Do not pull solder from a heavy reel with the trigger. Keep the solder loose (without tension) on the solder inlet side at all times while soldering. **CHECK** : Is the solder inserted properly?

ACTION : Refer to "1.Inserting the solder" under "5.OPERATION".

# Option

# 9. PARTS LIST



# 9. PARTS LIST

# **HAKKO FX-8803**

Item No. Part 1 ~ 1 FX880

## Soldering gun parts

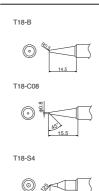
Item No.	Part No.	Part Name	Specifications
1	B2643	Terminal board	
2	B2032	Grounding spring	
3	A1560	Heating element	26V-65W
4	B2022	Nipple	
5		Тір	See "10.TIP STYLES"
6	B3469	Tip enclosure	
$\bigcirc$	B1785	Nut	
8	B2648	Trigger set	
9	B2646	Solder feed adjusting screw guide	
0	B2645	Solder feed adjusting screw	
1	B2658	Spring for trigger assembly	With nut
12	B2657	Solder inlet	
13	B3467	Cord bushing	
14	B1710	Nozzle securing ring	
	B2652	Guide nozzle	0.6mm ESD
6	B2653	Guide nozzle	0.8mm ESD
	B2654	Guide nozzle	1.0mm ESD
	B2655	Guide nozzle	1.2mm ESD
	B2656	Guide nozzle	1.6mm ESD
6	B2649	Support fitting	With grommet
$\bigcirc$	B2650	Adjudting screw	For guide pipe



Item No.	Part No
1	C1437
2	A1042
3	B2723
3	

2

# **10. TIP STYLES**



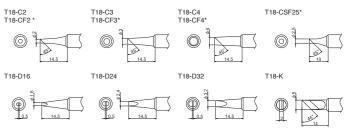
\* Tinned on the soldering surface only.

t No.	Part Name	Specifications
03-02	HAKKO FX-8803	26V-65W

).	Part Name	Specifications
	Iron holder	With cleaning sponge
	Cleaning sponge	
	Hook	With screw







T18-SB

