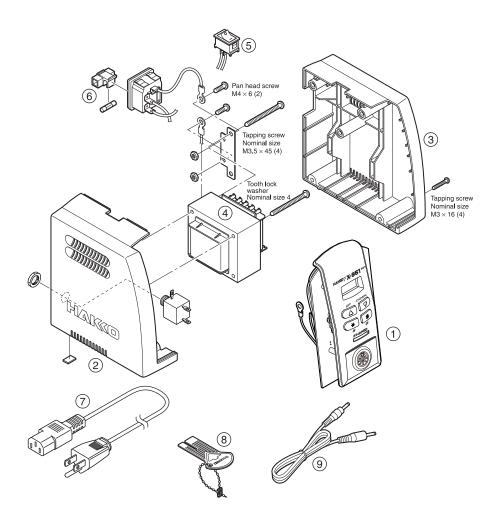


# **1. PARTS LIST**



## HAKKO FX-951 Station

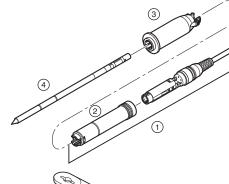
HARRO FX-951 Station			
Item No.	Part No.	Part Name	Specifications
1	B3732	Front panel assy.	
2	B3255	Case/Left	With rubber feet
3	B2978	Case/Right	With rubber feet
	B2979	Transformer	100V
	B2983	Transformer	110V
(4)	B2836	Transformer	120V
4	B2984	Transformer	220V
	B2985	Transformer	230V
	B3067	Transformer	240V
5	(5) B2852	Power switch	
	B2403	Fuse/250V-2A	100-110V
6	B3011	Fuse/250V-2A	120V
	B2987	Fuse/250V-1A	220-240V

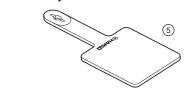
HEAD OFFICE TEL:+81-6-6561-3225 FAX:+81-6-6561-8466 http://www.hakko.com E-mail:sales@hakko.com

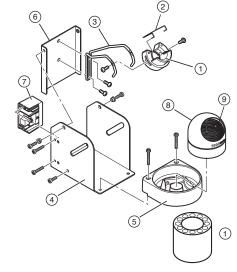
Please access to the following address for the other Sales affiliates.

http://www.hakko.com

Item No.	Part No.	Part Name	Specifications
	B2419	Power cord, 3-wire	120V USA
		cord & American plug	
	B2421	Power cord, 3-wire	
		cord but no plug	
	B2422	Power cord, 3-wire	India
		cord & BS plug	
	B2424	Power cord, 3-wire	220V KTL
		cord & European plug	230V CE
	B2425	Power cord, 3-wire	230V CE
		cord & BS plug	
7	B2436	Power cord, 3-wire	China
		cord & Chinese plug	
	B2426	Power cord, 3-wire	
		cord & Australian plug	
	B3508	Power cord, 3-wire	
		cord & American plug	
	B3550	Power cord, 3-wire	
		cord & SI plug	
	B3616	Power cord, 3-wire	
		cord & BR plug	
8	B2972	Control card	
9	B3253	Connecting cable	







### HAKKO FM-2027

Item No.	Part No.	Part Name	Specifications	
1,3,5	FM2027-01	Conversion kit	③ is yellow	
1	FM2027-02	Connector assembly		
2	B3215	Connector cover		
	B3216	Sleeve assembly	Yellow	
6	B3217	Sleeve assembly	Orange	
(3)	B3218	Sleeve assembly	Blue	
	B3219	Sleeve assembly	Green	
		Тір	See back page:	
(4)			'TIP STYLES'	
5	B2300	Heat resistant pad		

### Iron Holder

Item No.	Part No.	Part Name	Specifications
1-9	FH200-01	Iron holder	With 599B

## Iron Holder Parts

Item No.	Part No.	Part Name	Specifications
1	B3001	Iron receptacle	With screws
2	B2791	Tip fixing spring	
3	B3248	Holder for iron receptacle	
4	B3251	Iron holder base	With rubber feet
5	B3249	Cleaner base	With rubber feet
6	B3250	Stay	
7	B3252	Switch case assembly	
8	599B-02	Tip cleaner	
9	599-029	Cleaning wire	

## • Tip tray

2) Power save

Item No.	Part No.	Part Name	Specifications
1	B2756	Tip tray	

The HAKKO FX-951 has the following six parameters:

4) Resetting the supervisor/operator control setting 5) Buzzer setting (C-E sound, S-E sound) 6) Buzzer setting (Set temperature alert)

Once the station enters parameter mode, set the parameters in the order shown below. After all the parameters have been

1) °C or °F temperature display selection

3) Low temperature alarm setting

set, normal operation will be resumed.

## 2. PARAMETER SETTINGS

The HAKKO FX-951 comes from the factory with the following values preset.

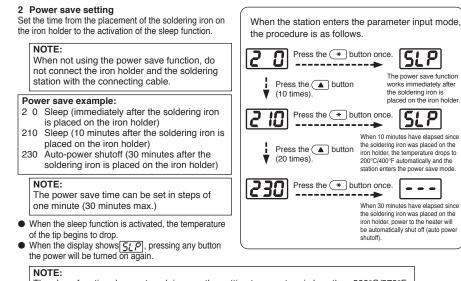
Temperature scale	Fahrenheit
Power save	0 min.
Low temperature alarm setting	300°F
Resetting the supervisor or	4 0
operator control setting	
Setting temperature	750°F
Buzzer setting (C-E sound, S-E sound)	ON
Buzzer setting (Set temperature alert)	ON

## • Entering the parameter

## 1 °C or °F temperature display

- 1. Turn power OFF.

- Insert the control card into the card slot in the front of the unit.
   Insert the control card into the card slot in the front of the unit.
   Press and hold down the ▲ and ▼ buttons simultaneously, and then turn power ON.
   Hold ▲ and ▼ buttons down until the display shows [1]. (Celsius) or [1]. (Fahrenheit).
- When either the display shows either I [] or , I F the station is in parameter input mode.
- Pressing either the ▲and ▼ button will cause the display to alternate between <u>I</u> <u>I</u> or <u>I</u> <u>F</u>.
  When the desired scale is displayed, select by pressing the ★ button. The system will automatically sequence to power save mode.



The sleep function does not work in case the setting temperature is less than 300°C/570°F.

- When the auto-power shutoff function is activated and power to the heater is shut off, the buzzer sounds three times.
- When the display shows - , and to begin soldering, cycle the power switch OFF, then ON.

### 3 Resetting the low temperature alarm tolerance setting

The unique function alerts the operator when the sensed temperature drops below a set limit. Should this occur, an error message will be displayed, and the buzzer will sound continuously. When the temperature returns within the allowable range, the buzzer will stop.

- When the station enters low-temperature alarm tolerance setting mode, the hundreds digit begins flashing. Enter and store the value in the same manner as described in "Changing the temperature setting."
- If you enter a value exceeding the allowable range shown to the left, you will be brought back to entering a value in the hundreds digit. If this occurs, reenter a correct value.

Range of allowable low

for °C: 30 - 150°C

for °F: 50 - 300°F

temperature alarm tolerance

3. Once the value is stored, the system will automatically sequence to resetting the supervisor/operator control setting mode.

#### Example:

When the setting temperature is 350°C and the low temperature alarm tolerance is 100°C, buzzer will sound when the tip temperature will drop over 250°C.

### 4. Resetting the supervisor/operator control setteing

To change the supervisor/operator control settings, the procedure is as follows.

• The display will show 4 3 or 4 when this mode is entered.

 $[\underline{\forall} \ \underline{B}]$ : No offset value can be entered without inserting the card.

France of the card.

Pressing the or button will change 4 3 and 4 4

When the desired setting is displayed, select by pressing \* button.

### 5. Buzzer setting (C-E sound, S-E sound)

- In the buzzer sound setteing mode, which sets whether to sound the buzzer when a sensor error or soldering iron error occurs, 5 1 or 5 1 is displayed.
  - $5 \ \overline{0}$ : The buzzer does not sound.
  - 5 / : The buzzer sound

Select ▲ or ▼ and press the ★ button.

#### 6. Buzzer setting (Set temperature alert)

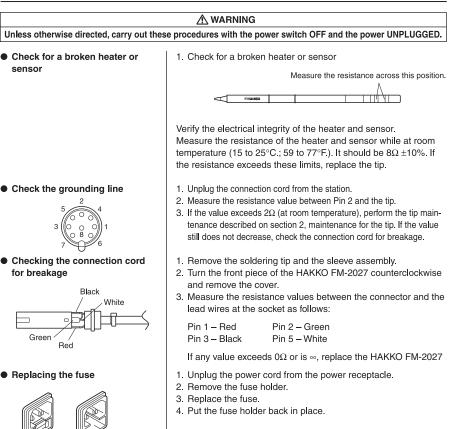
- In the buzzer sound setteing mode, which sets whether to sound the buzzer when a sensor error or soldering iron error occurs, <a href="https://www.setteing.com"><u>buzzer when a sensor error or</u></a> soldering iron error occurs, <a href="https://www.setteing.com"><u>buzzer when a sensor error or</u></a> soldering iron error occurs, <a href="https://www.setteing.com"><u>buzzer when a sensor error or</u></a> soldering iron error occurs, <a href="https://www.setteing.com"><u>buzzer when a sensor error or</u></a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering iron error occurs, <a href="https://www.setteing.com">[buzzer when a sensor error or</a> soldering.

  - **5 C**: The buzzer does not sound.
  - 5 1: The buzzer sound

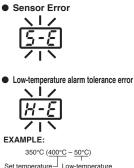
Select ▲ or ▼ and press the ★ button.

The system will exit the parameter setting mode and begin heater control. It is now ready for normal operation.

# **3. CHECKING PROCEDURE**



# 4. ERROR MESSAGES



Set temperature alarm tolerance OR 650°F (750°F – 100°F)

Set temperature Low-temperature alarm tolerance

Heater terminal short-circuit error



Soldering iron error



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

### **CAUTION**

The sensor error also occurs if the tip is not inserted properly.

If the sensor temperature falls below the difference between the current temperature setting and the low-temperature alarm tolerance,  $[\underline{H-E}]$  is displayed and the warning buzzer sounds. When the tip temperature rises to a value within the set tolerance, the buzzer will stop sounding.

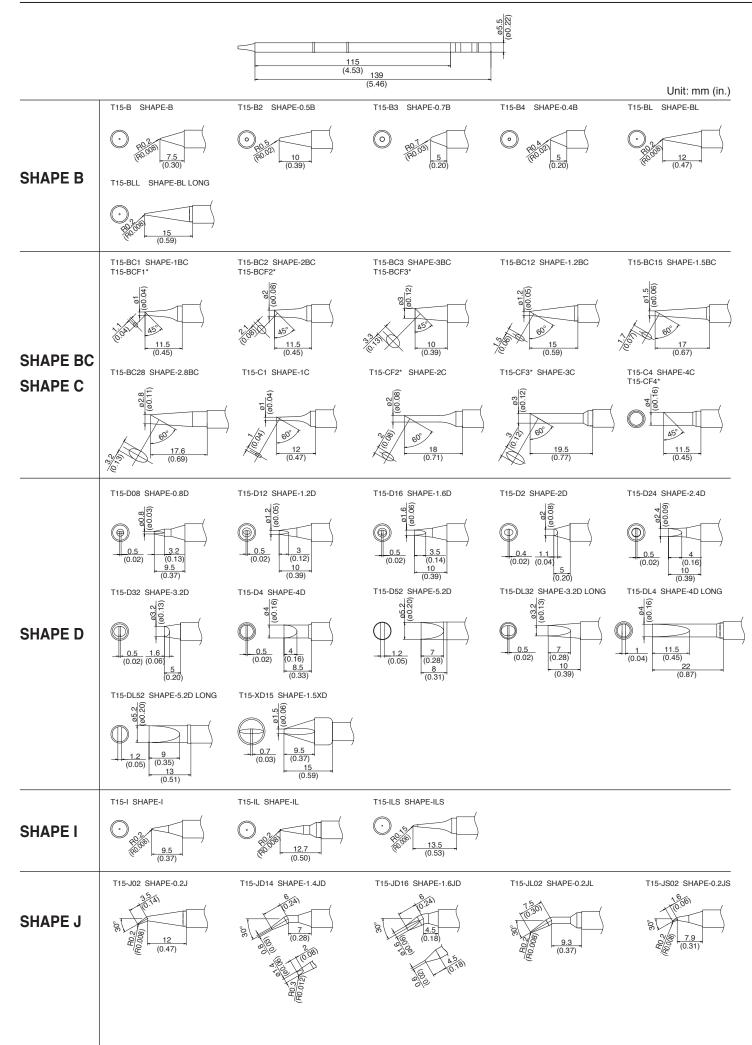
## EXAMPLE:

Assume that the temperature setting is  $400^{\circ}C/750^{\circ}F$  and the tolerance  $50^{\circ}C/100^{\circ}F$ . 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.

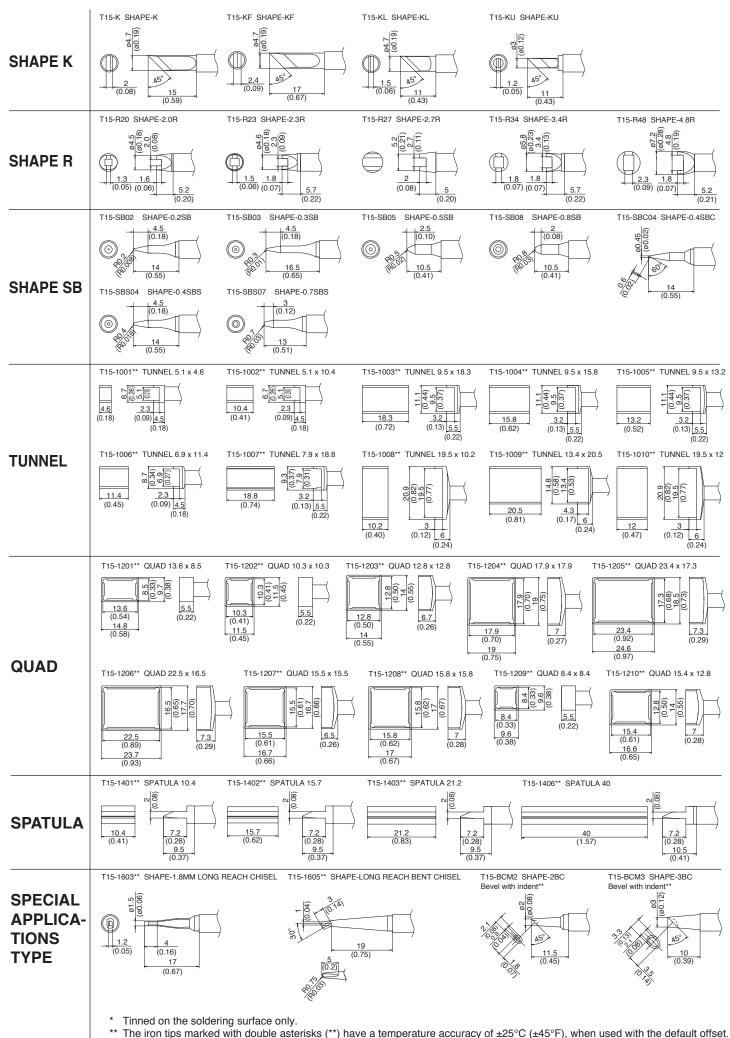
 $\underline{HSE}$  will flash, and the buzzer will sound continuously, when the tip is inserted wrong way round, an incompatible tip is inserted, or a foreign object has found its way into the connector.

 $[\underline{f}, -\underline{f}]$  will be displayed if the connector cord is not attached to the station OR the wrong soldering iron is connected.

# 5. TIP STYLES



# 5. TIP STYLES



Others have a temperature accuracy of  $\pm 15^{\circ}$ C ( $\pm 27^{\circ}$ F), when used with the default offset.