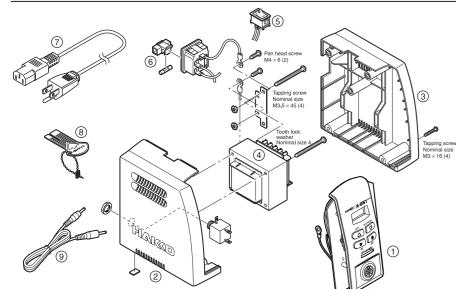
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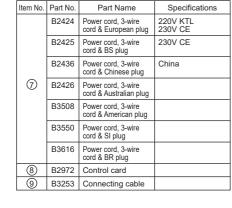


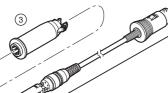
1. PARTS LIST



HAKKO 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
4	B2979	Transformer	100V
	B2983	Transformer	110V
	B2836	Transformer	120V
	B2984	Transformer	220V
	B2985	Transformer	230V
	B3067	Transformer	240V
5	B2852	Power switch	
6	B2403	Fuse/250V-2A	100-110V
	B3011	Fuse/250V-2A	120V
	B2987	Fuse/250V-1A	220-240V
7	B2419	Power cord, 3-wire cord & American plug	120V USA
	B2421	Power cord, 3-wire cord but no plug	
	B2422	Power cord, 3-wire cord & BS plug	India





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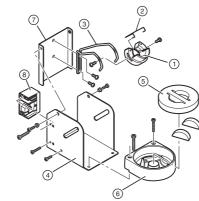
OVERSEAS AFFILIATES

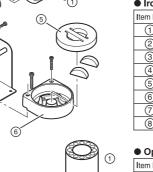
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2. PARAMETER SETTINGS

The HAKKO FX-951 comes from the factory with the following values preset. Temperature scale Celsius Power save 0 min. Low temperature alarm setting 150°C Resetting the supervisor or 40

operator control setting Setting temperature 350°C Buzzer setting (C-E sound, S-E sound) ON

- Buzzer setting (Set temperature alert) ON
- Entering the paramete 1 °C or °F temperature display
- 1. Turn power OFF.
- 2 Insert the control card into the card slot in the front of the unit
- 3. Press and hold down the and votetons simultaneously, and then turn power ON.
- 4. Hold ▲ and ▼ buttons down until the display shows [][(Celsius) or [] [](Fahrenheit). When either the display shows either $\boxed{I \ L}$ or $\boxed{I \ F}$ the station is in parameter input mode.
- Pressing either the () and () button will cause the display to alternate between $\begin{bmatrix} I \\ L \end{bmatrix}$ or $\begin{bmatrix} I \\ F \end{bmatrix}$
- When the desired scale is displayed, select by pressing the * button. The system will automatically sequence to power save mode.

2

2 Power save setting

Set the time from the placement of the soldering iron on the iron holder to the activation of the sleep function.

NOTE: When not using the power save function, do not connect the iron holder and the soldering station with the connecting cable.

Power save example:

- 2 0 Sleep (immediately after the soldering iron is placed on the iron holder)
- 210 Sleep (10 minutes after the soldering iron is
- placed on the iron holder) 230 Auto-power shutoff (30 minutes after the soldering iron is placed on the iron holder)

NOTE:

- The power save time can be set in steps of one minute (30 minutes max.)
- When the sleep function is activated, the temperature
- of the tip begins to drop. • When the display shows <u>5</u>, <u>P</u>, pressing any button the power will be turned on again.
- NOTE: 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

3 Resetting the low temperature alarm toleranc

- The unique function alerts the operator when the sensed a set limit. Should this occur, an error message will be dis will sound continuously. When the temperature returns w the buzzer will stop.
- 1. When the station enters low-temperature alarm tolerance a. Enter and store the value in the same manner as described in "Changing the temperature setting."
- 2. 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.
- 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

- The display will show 4 1 or 4 1 when this mode is entered.
- An offset value can be entered without inserting the card.

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

Iron Holder Item No. Part No. Part Name Specifications (1)-(8) FH200-02 Iron holder With cleaning sponge 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 receptade (4) B3251 Iron holder base With rubber feet A1519 Cleaning sponge (5) B3249 Cleaner base With rubber fee B3250 Stav B3252 Switch case assembly 8

Optional Parts

tem No. Part No. Part Name Specifications (1) B2756 Tip tray

The HAKKO FX-951 has the following six parameters:

- 1) °C or °F temperature display selection
- 2) Power save
- 3) Low temperature alarm setting 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 set, normal operation will be resumed.

When the station enters the parameter input mode,

Press the * button once.

Press the * button once.

Press the * button once.

The power save function works immediately after the soldering iron is placed on the iron holder

When 10 minutes have elapsed since the soldering iron was placed on the iron holder, the temperature drops to

200°C/400°F automatically and the

station enters the power save mod

When 30 minutes have elapsed since the soldering iron was placed on the

iron holder, power to the heater will

be automatically shut off (auto pov shutoff).

the procedure is as follows.

Press the 🔺 button

Press the 🔺 button

(10 times)

(20 times)

2 10

230

Check the group	3
-----------------	---

sensor



• Checking the connection cord for breakage



Replacing the fuse



4. ERROR MESSAGES





フィト EXAMPLE: 350°C (400°C - 50°C)

Set temperature Low-tempera alarm tolerar OR 650°F (<u>750°F</u> – <u>100°F</u>)

Set temperature Low-tempera

Heater terminal short-cir



Soldering iron error







● HAKKO EM-2028

Item No.	Part No.	Part Name	Specifications
1-3	FM2028-01	HAKKO FM-2028	③ is yellow
1-3	FM2028-02	HAKKO FM-2028	③ is blue
1	FM2028-03	Connector assembly	
2	B3220	Connector cover	
	B3216	Sleeve assembly	Yellow
	B3217	Sleeve assembly	Orange
3	B3218	Sleeve assembly	Blue
	B3219	Sleeve assembly	Green
4		Tip	See back page.
5	B2300	Heat resistant pad	

- To change the supervisor/operator control settings, the procedure is as follows.
- No offset value can be entered without inserting the card
- Pressing the or button will change 4 [] and 4

cie trie power switch Or I, then	ON.
e setting temperature drops below splayed, and the buzzer ithin the allowable range,	Range of allowab temperature alarm for °C: 30 - 150°C for °F: 60 - 300°F
setting mode, the hundreds di	igit begins flashing. En

wable low alarm tolerance 50°C

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 3 or 5 1 is displayed.

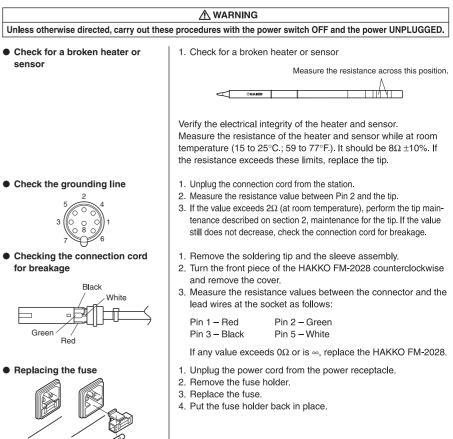
- 5 3: The buzzer does not sound. 5 3: The buzzer sound
- Select (▲) or ▼) and press the (*) button.

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, $\boxed{5}$ $\boxed{9}$ or $\boxed{5}$ $\boxed{1}$ is displayed.

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



	When there is the possibility that a failure has occurred in the sensor or heater (including the sensor circuit), $5-5$ is displayed and the power is shut down.
	A CAUTION The sensor error also occurs if the tip is not inserted properly.
erance error	If the sensor temperature falls below the difference between the current temperature setting and the low-temperature alarm tolerance, $H-E$ is displayed and the warning buzzer sounds. When the tip temperature rises to a value within the set tolerance, the buzzer will stop sounding.
ature ance	EXAMPLE: Assume that the temperature setting is 400°C/750°F and the tolerance 50°C/100°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.
ature nce rcuit error	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.
r	$\boxed{\underline{f} - \underline{f}}$ will be displayed if the connector cord is not attached to the station OR the wrong soldering iron is connected.

