



# HAKKO FX-950 <Analog type>



\* The included iron holder FH-101 is a stand-alone type and does not interlock with the sleep function.  
\* Tip is an optional part.

## HAKKO FX-951 <Digital type>

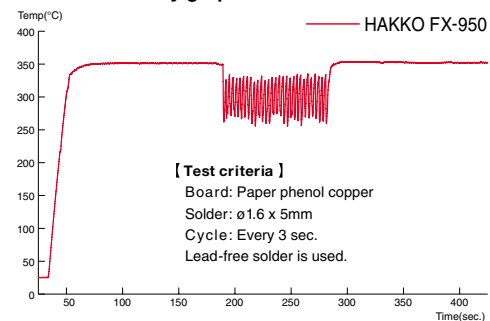


### Innovative thermal control

Great thermal recovery and reliable temperature accuracy

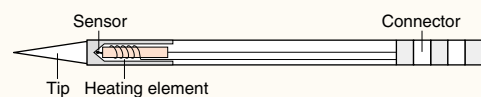
The composite tip enables great recovery and reliable temperature accuracy. In addition, soldering

#### Thermal recovery graph



#### What is a composite tip?

A composite tip consists of a combined heating element and sensor, joined to the tip by a ceramic compound to form a single unit. The composite tip is very small but superior in thermal response and has highly-improved thermal recovery characteristics.



### Thermal control function

Lock the setting temperature with a special lock key. Unless the lock key is inserted, the setting temperature cannot be changed.



#### Offset function

### Standard 80 types of tip variations

The standard 80 types of tips are available for various kinds of soldering work.  
(For tip shapes, see the next page.)

### Space-saving design

The compact design does not fill your work space.

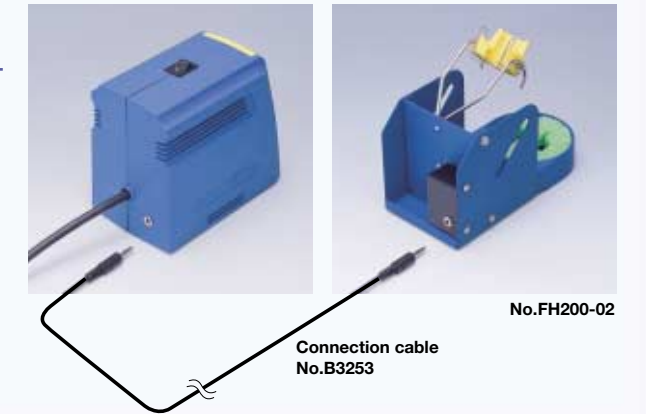
### Sleep function (6-min setting) Option

If an optional iron holder FH-200 is connected to the FX-950 station via a connecting cable (option: No. B3253), and then the iron FM-2028 is placed on the iron holder, the sleep function will operate after 6 minutes and the tip temperature will decrease to below 200°C. This function relieves the loads applied to the tip and prevents the tip from being oxidized.

\* The sleep starting time cannot be changed.  
\* The FX-950 is not equipped with the auto-power shut-off function.

### Safe design

ESD safe by design.  
Informing of various errors by lamp or display.  
(Sensor error/Soldering iron error/Heater terminal short-circuit error)



### Performance comparison

		FX-950	FX-951
Analog/digital type		Analog	Digital
Power consumption		70W	
Iron		FM-2028	
Tip		T15 series (tip and heating element combined type)	
Type of tips		80 types	
CAL/Offset		Off-set	
Power-save function	Auto-power shut-off function	×	○
	Sleep function	○ *Optional setting: 6 min.	○ (Arbitrary: 0 to 29 min.)
Thermal setting lock		Lock key	Control card
Station size(mm)		80(W) x 118(H) x 138(D)	80(W) x 130(H) x 131(D)

### Specifications

#### HAKKO FX-950 soldering station

Power consumption	75W
Temperature range	200 - 450°C
Temperature stability	±5°C

#### Station

Output	24V
Dimensions	80(W) x 118(H) x 138(D)mm
Weight	1.2kg

#### HAKKO FM-2028 soldering iron

Power consumption	70W
Tip to ground resistance	< 2
Tip to ground potential	< 2mV
Length of cord	1.2m
Total Length (w/o cord)	188mm with 2.4D tip
Weight (w/o cord)	30g with 2.4D tip

**NOTE :** \*The temperature were measured using the HAKKO FG-100 thermometer.  
\*This product is protected against electrostatic discharge.

### Packing List

Station	1
Iron (FM-2028)	1
Power cord	1
Iron holder (FH-101)	1
Lock key	1
Heat resistant pad	1

\*Tip is an optional part.

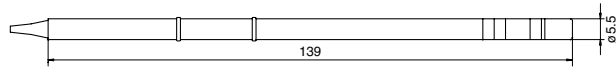
### Replacement and Optional Parts

Part No.	Name/Description	Part No.	Name/Description
FH200-02	Iron holder with cleaning sponge	B3216	Sleeve assembly, yellow
B3253	Connecting cable	B3217	Sleeve assembly, orange
599B-02	Tip cleaner	B3218	Sleeve assembly, blue
B2759	Tip tray	B3219	Sleeve assembly, green

# Optional tips - No offset required

Temperature accuracy  $\pm 15^{\circ}\text{C}$  without offset

The iron tips marked with \*\* have a temperature accuracy of  $\pm 25^{\circ}\text{C}$ .



Unit : mm

T15-B SHAPE-B	T15-B2 SHAPE-0.5B	T15-B3 SHAPE-0.7B	T15-B4 SHAPE-0.4B	T15-BLL SHAPE-BL LONG	T15-BC1 SHAPE-1BC T15-BCF1 *
T15-BC2 SHAPE-2BC T15-BCF2 *	T15-BC3 SHAPE-3BC T15-BCF3 *	T15-BC12 SHAPE-1.2BC	T15-BC15 SHAPE-1.5BC	T15-BC28 SHAPE-2.8BC	T15-C1 SHAPE-1C
T15-CF2 * SHAPE-2C	T15-CF3 * SHAPE-3C	T15-C4 SHAPE-4C T15-CF4 *	T15-D08 SHAPE-0.8D	T15-D12 SHAPE-1.2D	T15-D16 SHAPE-1.6D
T15-D2 SHAPE-2D	T15-D24 SHAPE-2.4D	T15-D32 SHAPE-3.2D	T15-D4 SHAPE-4D	T15-D52 SHAPE-5.2D	T15-DL4 SHAPE-4D LONG
T15-DL52 SHAPE-5.2D LONG	T15-XD15 SHAPE-1.5XD	T15-1 SHAPE-1	T15-IL SHAPE-IL	T15-ILS SHAPE-ILS	T15-J02 SHAPE-0.2J
T15-JD14 SHAPE-1.4JD	T15-JD16 SHAPE-1.6JD	T15-JL02 SHAPE-0.2JL	T15-JS02 SHAPE-0.2JS	T15-K SHAPE-K	T15-KF SHAPE-KF
T15-KL SHAPE-KL	T15-KU SHAPE-KU	T15-R20 SHAPE-2.0R	T15-R23 SHAPE-2.3R	T15-R27 SHAPE-2.7R	T15-R34 SHAPE-3.4R
T15-R48 SHAPE-4.8R	T15-SB02 SHAPE-0.2SB	T15-SB03 SHAPE-0.3SB	T15-SB05 SHAPE-0.5SB	T15-SB08 SHAPE-0.8SB	T15-SBC04 SHAPE-0.4SBC
T15-SBS04 SHAPE-0.4SBS	T15-SBS07 SHAPE-0.7SBS	T15-1001** TUNNEL 5.1 x 4.6	T15-1002** TUNNEL 5.1 x 10.4	T15-1003** TUNNEL 9.5 x 18.3	T15-1004** TUNNEL 9.5 x 15.8
T15-1005** TUNNEL 9.5 x 13.2	T15-1006** TUNNEL 6.9 x 11.4	T15-1007** TUNNEL 7.9 x 18.8	T15-1008** TUNNEL 19.5 x 10.2	T15-1009** TUNNEL 13.4 x 20.5	T15-1010** TUNNEL 19.5 x 12
T15-1201** QUAD 13.6 x 8.5	T15-1202** QUAD 10.3 x 10.3	T15-1203** QUAD 12.8 x 12.8	T15-1204** QUAD 17.9 x 17.9	T15-1205** QUAD 23.4 x 17.3	T15-1206** QUAD 22.5 x 16.5
T15-1207** QUAD 15.5 x 15.5	T15-1208** QUAD 15.8 x 15.8	T15-1209** QUAD 8.4 x 8.4	T15-1210** QUAD 15.4 x 12.8	T15-1401** SPATULA 10.4	T15-1402** SPATULA 15.7
T15-1403** SPATULA 21.2	T15-1406** SPATULA 40	T15-1603** SHAPE-1.8MM LONG REACH CHISEL	T15-1605** SHAPE-LONG REACH BENT CHISEL	SHAPE B	SHAPE BC
				SHAPE C	SHAPE D
				SHAPE E	SHAPE I
				SHAPE J	SHAPE K
				SHAPE R	SHAPE SB
				TUNNEL	
				QUAD	SPATULA
				SPECIAL APPLICATIONS TYPE	

\* Tinned on the soldering surface only.

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**HAKKO**  
HAKKO CORPORATION  
OVERSEAS AFFILIATES

U.S.A.  
AMERICAN HAKKO PRODUCTS, INC.  
28920 N. AVE. WILLIAMS VALENCIA, CA 91355, U.S.A.  
TEL: (661) 294-0090 FAX: (661) 294-0096  
Toll Free (800)88-HAKKO  
<http://www.hakkousa.com>

HEAD OFFICE  
4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN  
TEL:+81-6-6561-3225 FAX:+81-6-6561-8466  
<http://www.hakko.com> E-mail:sales@hakko.com

HONG KONG  
HAKKO DEVELOPMENT CO., LTD.  
ROOM 1504, EASTERN HARBOUR CENTRE,  
28 HOI CHAK STREET, QUARRY BAY, HONG KONG.  
TEL: 2811-5588 FAX: 2590-0217  
<http://www.hakko.com.hk>  
E-mail:info@hakko.com.hk



**SYNERGY**  
ELECTRONICS LTD

sales@synergielectronics.co.nz

[www.synergielectronics.co.nz](http://www.synergielectronics.co.nz)

Ph 0800 347 045

Please access to the following for the other Sales affiliates.  
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