

The standard model for lead-free soldering

HAKKO FX-950 SOLDERING STATION ESD SAFE



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>

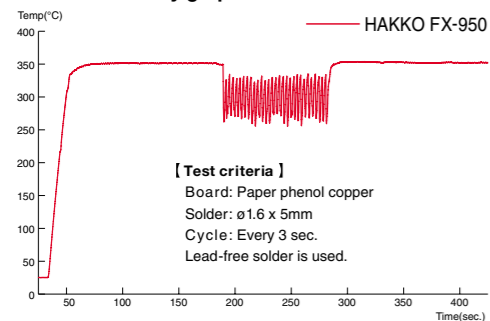


Innovative thermal control

Great thermal recovery and reliable temperature accuracy

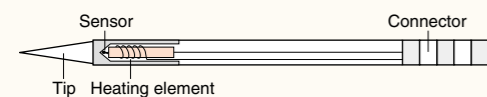
The composite tip enables great recovery and reliable temperature accuracy. In addition, soldering

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.

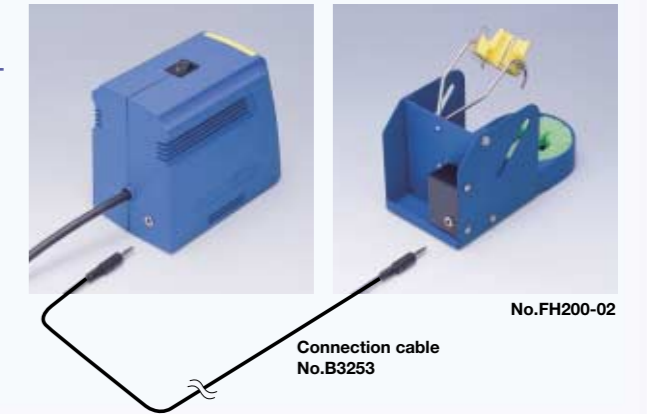
Sleep function (6-min setting) Option

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.

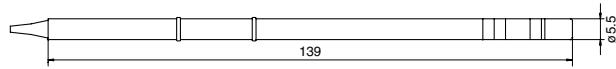
Replacement and Optional Parts

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 	T15-1L SHAPE-1L 	T15-1LS SHAPE-1LS 	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-1.6MM LONG REACH CHISEL 	T15-1605** SHAPE-LONG REACH BENT CHISEL 	SHAPE B	SHAPE I
				SHAPE BC	SHAPE J
				SHAPE C	SHAPE K
				SHAPE D	SHAPE R
				TUNNEL	SHAPE SB
				QUAD	SPECIAL APPLICATIONS TYPE
				SPATULA	

* Tinned on the soldering surface only.

Due to continuing product improvement efforts, specifications and external appearance are subject to change without notice.
Copyright Hakko Corporation. All right reserved.

CA00279BbBa001 Oct. 2007

HAKKO
HAKKO CORPORATION
OVERSEAS AFFILIATES

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

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

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

SINGAPORE
HAKKO PRODUCTS PTE., LTD.
1, GENTING LINK #02-04, PERFECT INDUSTRIAL
BUILDING, SINGAPORE 349518
TEL: 6748-2277 FAX: 6744-0033
http://www.hakko.com.sg
E-mail: sales@hakko.com.sg

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