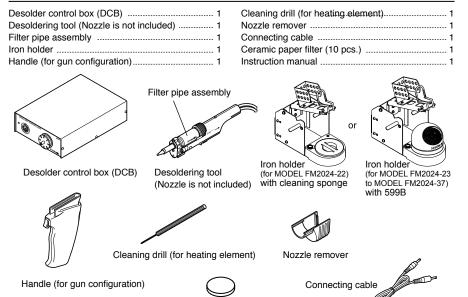




Thank you for purchasing MODEL FM-2024 desoldering tool Please read this manual before operating the MODEL FM-2024. Keep this manual readily accessible for reference.

1. PACKING LIST AND PART NAMES Please check to make sure that all items listed below are included in the package.



Ceramic paper filter (10 pcs.)

2. SPECIFICATIONS

Desolder control box		Desoldering tool	
Power consumption	12 W	Power consumption	70 W (24 V)
Output	24 V	Temperature range	350 - 450°C (650 - 840°F)
Vacuum generator	Ejector type	Tip to ground potential	< 2 mV
Vacuum pressure (max.)	93 kPa (700 mmHg)	Tip to ground resistance	<2
Suction flow	20 L/min*	Length, less cord	180 mm
Tip to ground potential	< 2 mV	Weight, less cord & hose	65 g
Applied air pressure	490 kPa (5.0 kgf/cm ²) when in use	Length of cord	1.2 m
	(trigger or button is pressed)	NOTE: * The temperatures were measured using the HAKKO	
Compressed air	1.62 c.f.m. (46 L/min.)		
consumption		FG-101 soldering tester	
Outer dimension,	119 (W) × 45 (H) × 172 (D) mm	 * This product is protected against electrostatic discharge. * Specifications and design are subject to change without 	
(w/o cord)		notice.	
Weight	1.2 kg]	

* This suction flow is measured at the filter case suction port of Station

ACAUTION

This product includes such features as electrically conductive plastic parts and grounding of the handpiece and station as measures to protect the device to be soldered from the effects of static electricity. Be sure to observe the following instructions: . The handle and other plastic parts are not insulators, they are conductors. When replacing parts or repairing, take sufficient care not to expose live electrical parts or damage insulation materials Be sure to around the unit during use

⁽⁾HAK⁽⁾O HAKKO CORPORATION

HEAD OFFICE

4-5. Shiokusa 2-chome, Naniwa-ku, Osaka 556-0024 JAPAN TEL: +81-6-6561-3225 FAX: +81-6-6561-8466 https://www.hakko.com E-mail: sales@hakko.com

OVERSEAS AFFILIATES

U.S.A.: AMERICAN HAKKO PRODUCTS, INC

- U.S.A. AWERICAN HARO FRODUCTS, INC. TEL: (661) 294-0090 FAX: (661) 294-0096 Toll Free (800) 88-HAKKO https://www.HakkoUSA.com E-mail: Support@HakkoUSA.com
- HONG KONG: HAKKO DEVELOPMENT CO., LTD. TEL: 2811-5588 FAX: 2590-0217 https://www.hakko.com.cn E-mail: info@hakko.com
- SINGAPORE: HAKKO PRODUCTS PTE., LTD.
- TEL: 6748-2277 FAX: 6744-0033 https://www.hakko.com.sg E-mail: sales@hakko.com.sg

Please access the web address below for other distributors. https://www.hakko.com



3. WARNINGS, CAUTIONS AND NOTES

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:

A WARNING: Failure to comply with a WARNING may result in serious injury or death.

- AUTION : Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved. Two examples are given below
 - NOTE : A NOTE indicates a procedure or point that is important to the process being described.

EXAMPLE : An EXAMPLE is given to demonstrate a particular procedure point or process.

Failure to do so may result in serious problems.

A WARNING

- When the power is on, the nozzle temperature is between 350C/650F and 450C/840F.
- Since mishandling may lead to burns or fire, be sure to comply with the following precautions.
- Do not touch the metal parts near the nozzle, nearby plastic parts, or the metal parts of iron holder.
- Do not use the product near flammable items
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- Turn the power off while taking breaks and when finished using the unit.
- Before replacing parts or storing the unit, turn the power off and allow the unit to cool to room temperature.
- 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.

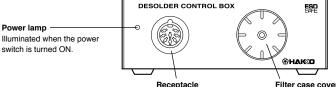
To prevent damage to the unit and ensure a safe working environment, be sure to comply with the following precautions.

Use only filtered air. Adjust the pressure to 490 to 686 kPa (5.0 to 7.0 kgf/cm²) while allowing air to flow by pulling the trigge

- Do not use the unit for applications other than desoldering.
- Do not rap the desoldering tool against the work bench to shake off residual solder, or otherwise
- subject the iron to severe shocks.
- Do not modify the unit.
- Use only genuine HAKKO replacement parts.
- Do not wet the unit or use the unit when your hands are wet.
- When desoldering, ensure good ventilation for smoke
- While using the unit, don't do anything which may cause bodily harm or physical damage.

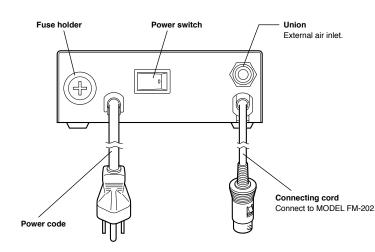
4. PART NAMES (Refer to Maintenance guide for part nos.)





Connect MODEL FM-2024 to this receptacle





MODEL FM-2024

Nozzle unlock button Remove the nozzle from the arip while pressing this button

Trigge

5. OPERATION

removing solder

Assembling

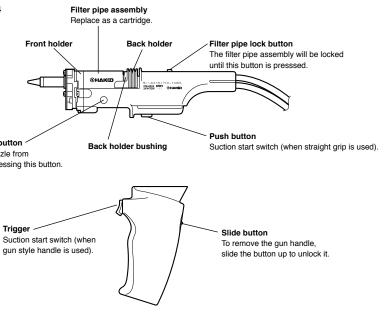
1. Iron holder

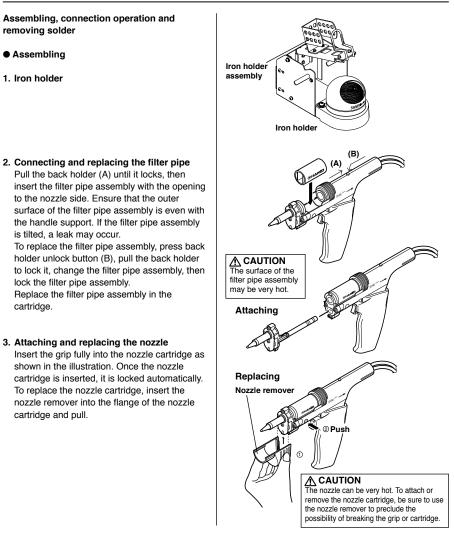
to the nozzle side. Ensure that the outer is tilted, a leak may occur. lock the filter pipe assembly Replace the filter pipe assembly in the cartridge.

3. Attaching and replacing the nozzle

shown in the illustration. Once the nozzle To replace the nozzle cartridge, insert the cartridge and pull.

4. PART NAMES





5. OPERATION

Press the nozzle unlock button (A) and remove the nozzle cartridge.

The nozzle may be very hot.

The nozzle remover may be left mounted on the end of the straight grip when not in use to prevent it from being misplaced.

Connection

- A CAUTION Be sure to unplug the cord by holding the plug.
- The HAKKO FM-203 detects when the iron is removed from the iron holder and sends this data to the station via the relay cord .That data is then used for various functions.

NOTE:

The channel for connecting the relay cord of the iron holder must be the same as the channel for connecting the iron set in the iron holder.

Securely insert the relay cord all the way to the back.

1. Connect the plug from the FM-2024 to the receptacle on the DCB, then connect the DCB to the soldering station as shown in the drawing. NOTE:

When MODEL FM-2024 is connected to HAKKO FM-203, it could be connected to either D channel or S channel.

2. Put the FM-2024 into the iron holder.

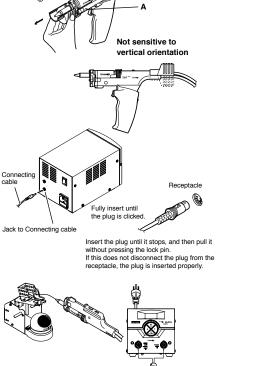
- 3. Connect the hose from the FM-2024 to the filter case cover on the DCB.
- 4. Connect the DCB to the shop air supply/compressor. Use only filtered air to eliminate the probability of dust, water, and oil content from fouling the mechanism

Adjust the pressure to 490 kPa (5.0 kgf/cm2) with the regulator while allowing air to flow by pressing the button (or pulling the trigger) on the handpiece

If you attempt to adjust the pressure without allowing air to flow, or if the tube size is not as specified, the suction capability will decrease. Ensure that the regulator shows less than 882 kPa (9.0 kgf/cm2) when the trigger is turned OFF. If pressure equal to or higher than this value is applied, damage may result

5. Turn ON the power. Ensure that the power switch is OFF before inserting the AC plug.

Turn the power switches ON as follows: First, the DCB; second, the soldering station. Unless the DCB is turned on first, an error message will appear since the desoldering iron remains disconnected.



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. **1** .

Use a tube with inner diameter of 4 mm (0.16 in.) minimum.

Air filter

Removes foreigr

matter, dust, oil

content, and

water conten

Compressor

Use length of 3 m (9.8 ft.) maximum

Regulator

kPa (5.0

kgf/cm²)

noid valve, causing a failure.

Adjust to 490

Be sure to use an air filter. Foreign matter in

the piping or the air supply can jam the sole-

Be sure to ground this product as it is ESD

Typical interconne

Ø

Joint

Threaded portion

outside diameter

ø6mm (ø0.24in.)

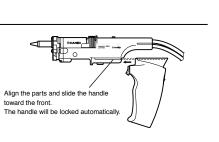
safe by design.

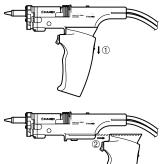
Tube

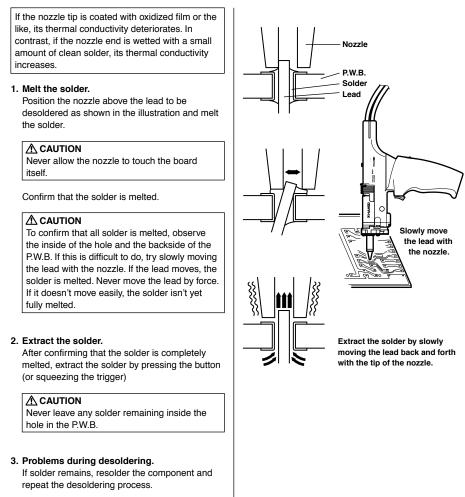
DCB

5. OPERATION

- Using the desoldering iron in the gun configuration. To use the desoldering iron in the gun configuration, attach the handle to the straight arip.
- Using the desoldering iron in the pen configuration. To remove the handle, slide down the button located on the rear of the handle to unlock it, then slide the handle toward the back of the MODEL EM-2024







1. Turn ON the power.

Operation

 When not in use, set the iron in the iron holder. The MODEL FM-2024 does not function properly if the power is turned on with the trigger pressed. Release the trigger and then turn the power ON.

2. By default, when the set temperature is reached, the buzzer sounds, indicating that the unit is readv.

About setting temperature, refer to the instruction manual for the soldering station (HAKKO FM-203)

Removing solder

Clean the nozzle tip. Be sure the nozzle tip is tinned with clean, fresh solder

MEMO:







5. OPERATION