

HAKCOFM-2026

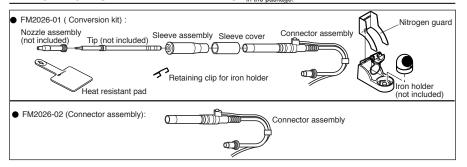
Instruction Manual

Thank you for purchasing the FM-2026 soldering iron. The FM-2026 soldering iron is designed to supply hot gas to the soldering area. This can increase soldering efficiency, as the gas pre-heats the work area.

When the heated gas is nitrogen (N2), soldering efficiency is further improved as the nitrogen materially reduces the amount of oxygen in the ambient atmosphere. Please read this manual before operating the FM-2026. Keep this manual readily accessible for reference.

⚠ CAUTIONWhen you use the FM-2026 for the first time, note that calibration is required before starting operation. Read the instruction manual for the station used in conjunction with the FM-2026 soldering iron

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



2. SPECIFICATIONS

Model No.	FM-2026	
Power Consumption	70W (24V)	
Tip to Ground Resistance	<2Ω	
Tip to Ground Potential	<2mV	
Cord	4 ft. (1.2 m)	
Length (w/o cord)	8.1 in. (205 mm) w/T13-D24	
Weight (w/o cord)	0.1 lb. (45 g) w/nozzle assembly C	
	and T13-D24	

3. COMPATIBLE STATIONS

This is N2 soldering iron. Use this product with the following

- FP-102 or FM-202
- HAKKO FX-791 or HAKKO 955, 955B (N₂ station)

If you do not connect the product to HAKKO FX-780 and FX-791, refer to the connection diagram in "5. OPERATION" as a guide for using the product.

4. WARNINGS AND CAUTIONS

Warnings and cautions are placed at critical points in this manual to direct the operator's attention to significant items. They are defined as follows:

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

⚠ CAUTION: Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved.

• Be sure to observe the following for safety.

∕! CAUTION

When power in ON, tip temperature will be between 392°F and 752°F (200°C to 400°C).

To avoid injury or damage to personnel and items in the work area, observe the following:

- Do not touch the tip or the metal parts near the tip.
- Do not allow the tip to come close to, or touch, flammable materials
- Inform others in the area that the unit is hot and should not be touched.
- Turn the power off when not in use, or left unattended
- Turn the power off and allow sufficient time for cooling off when the unit is not in use.

To prevent accidents or damage, be sure to observe the following:

- Do not use the FM-2026 for applications other than soldering.
- Do not allow the FM-2026 to become wet, or use it with wet hands
- Do not modify the FM-2026.
- Use only genuine HAKKO replacement parts.
- Do not set the temperature over 752°F/400°C.
- Do not strike the iron against hard objects to remove excess solder. This will damage the iron.
- Remove power and iron cords by holding the plug not the wires.
- Be sure the work area is well ventilated. Soldering produces smoke.



5. OPERATION

1. Iron holder

If the shape of the retaining clip of the iron holder is as shown in drawing A, the iron is not compatible with FM-2026. Please change to the retaining clip provided with the FM-2026 as shown in drawing B.

⚠ CAUTION

Shut off the gas supply when the FM-2026 is left unattended for an extended period.

2. Tip

Select and attach the proper nozzle assembly (see the cross reference table in section 9, parts list for the tip. Insert the tip into the connector until it touches the stop.

3. Connection

△CAUTION

When you connect or disconnect power to the mains or the receptacle, always turn off the power switch on the station to preclude damage

- 1. Connect the power cord to the power receptacle at the back of the station. Connect the connector cord to the receptacle at the front of the station.
- 2. Place the FM-2026 soldering iron on the iron holder
- 3. Plug the power cord into a grounded wall socket. 4. Insert the tube of the HAKKO FM-2026 to the
- terminal marked 'OUT' of the HAKKO FX-791* (Refer to the instruction manual for the HAKKO FX-791.) If HAKKO FX-791 is not used, refer to the diagram on the right for connection and use without HAKKO FX-791.

*Except use with HAKKO FX-791, the HAKKO 955 or HAKKO 955B is also available to use.

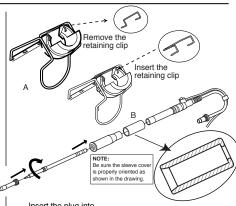
4. Temperature setting

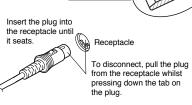
• If used in conjunction with FM-202. Insert the tip ID end of the tip into the process gate until the buzzer sounds once.

Tip temperature may not reach the set value if the gas flow rate exceeds the specified limit.

Set the maximum temperature to 752°F/400°C.

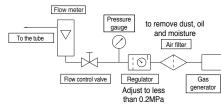
Suggested flow rate: 0.5ℓ/min. - 1.5ℓ/min





adjust the value betwee

0.5ℓ/min ~ 1.5ℓ/min



Typical interconnection

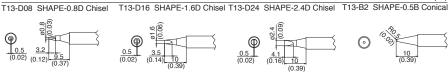
∆CAUTION

- 1. Shut off the gas supply when the FM-2026 is not in use.
- 2. Auto power shutoff may not function normally. This is a result of gas discharge across the tip.

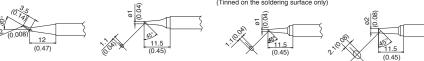
Ensure that the gas pressure to the FM-2026 is less than 0.2MPa (2.0kgf/cm²). If the pressure exceeds 0.2MPa, damage may occur.

6. TIP STYLE

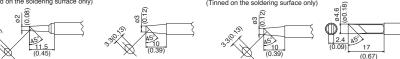




T13-BC1 SHAPE-1BC Bevel T13-BCF1 SHAPE-1BC Bevel T13-BC2 SHAPE-2BC Bevel T13-J02 SHAPE-0.2J Bent



T13-BCF2 SHAPE-2BC Bevel T13-BC3 SHAPE-3BC Bevel T13-BCF3 SHAPE-3BC Bevel T13-KF SHAPE-KF Knife

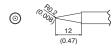


T13-KR SHAPE-KR Knife

T13-KU SHAPE-KU Knife T13-BL SHAPE-B Long Shape Conical







7. GENERAL INFORMATION

Tip temperature -

Cleaning -

Interruption

After use -

High temperatures shorten tip life. Always use the soldering iron at the lowest

possible temperature

The excellent thermal recovery characteristics of the FM-2026 ensures effective soldering at low temperature, protecting sensitive components easily damaged by thermal shock

Always clean the soldering tip before use to remove any residual solder or flux adhering to it. Use the 599B tip cleaner or a clean moist cleaning sponge Contaminants on the tip have many deleterious effects, including reduced heat

Whenever you finish soldering work, always clean the tip and coat it with fresh

conductivity, which contribute to poor soldering performance.

Do not allow the unit to idle at high temperature for extended periods. A heavy oxide layer on the tip will reduce the heat transfer from the tip..

This guards against oxidation.

8. MAINTENANCE

- 1. Set the temperature to 482°F/250°C.
- 2. When the temperature stabilizes, clean the tip and check its condition.
- 3. If the solder plated part of the tip is covered with black oxide, apply fresh solder containing flux and clean the tip again. Repeat until all the oxide is removed, then coat the tip with fresh solder.
- 4. Turn the power OFF and remove the tip after it cools off. Remaining oxides, such as the yellow discoloration on the tip shaft, can be removed with isopropyl alcohol
- 5. Replace the tip with a new one if it is badly deformed or corroded

⚠ CAUTION

NEVER file the tip to remove oxides!

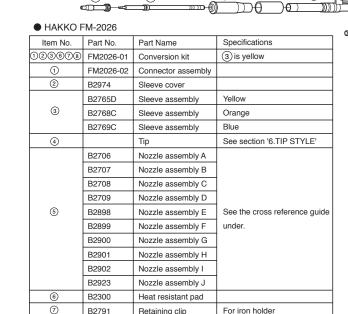
Maintenance of nozzle assembly

As the unit is used, oxidation will accumulate on the nozzle tip. Remove it periodically by cleaning so that the gas will flow freely.

Tube ID: 0.08 in. (2.0 mm)

OD: 0.12 in. (3.0 mm)

9. PARTS LIST



Cross reference guide for tip and nozzle

B2998

(8)

Tip		Nozzle	
Tip Shape	Part No.	Part No.	Part Name
2BC, 2BCF	T13-BC2, T13-BCF2	B2706	Nozzle assembly A
0.2J	T13-J02	B2707	Nozzle assembly B
1.6D, 0.5B, 2.4D	T13-D16, T13-B2, T13-D24	B2708	Nozzle assembly C
0.8D	T13-D08	B2709	Nozzle assembly D
BL	T13-BL	B2898	Nozzle assembly E
1BC, 1BCF	T13-BC1, T13-BCF1	B2899	Nozzle assembly F
3BC, 3BCF	T13-BC3, T13-BCF3	B2900	Nozzle assembly G
KU	T13-KU	B2901	Nozzle assembly H
KR	T13-KR	B2902	Nozzle assembly I
KF	T13-KF	B2923	Nozzle assembly J

Nitrogen guard