



Desoldering Tool

Instruction Manual

Thank you for purchasing the HAKKO 474 Desoldering Tool. Please read this manual before operating the HAKKO 474. Keep this manual readily accessible for reference.

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1. Packing List Please check to make sure that all the items listed below are included in the HAKKO 474 package.

Station Desoldering Gun		3 or ø1.0mm [0.04 in] nozzle)
Station	Wrench	Cleaning Sponge
Iron Holder Base	Spring Iron Holder	Spring Filter
Filter Pipe	Ceramic Paper Filter (S) Ceramic Paper Filter (L)	Cleaning Pin Holder
Cleaning Pin for Ø1.0mm (0.04 in) Nozzle	Cleaning Pin for Heating Element	Desoldering Gun
Oleaning Drill for at Own (201 in No. 1	Siliana Crana	* This product is protected against electrostatic discharge. * Specifications and design are subject to change without notice.
Cleaning Drill for ø1.0mm (0.04 in) Nozzle	Silicone Grease	

⚠CAUTION

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:

- 1. 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.
- 2.Be sure to ground the unit during use.

2. Precautions

In this instruction manual. "WARNING" and "CAUTIONS" are defined as follows.



WARNING: Misuse may potentially cause death of, or serious injury to the user.

CAUTION: Misuse may potentially cause injury to the user or physical damage to the objects involved.

For your own safety, be sure to comply with these precautions.



Remove the pump securing screw (M4×25 marked red) from the bottom of the station.

Failure to do so may result in serious problems.

When the power is on, the nozzle temperature is between 380°C/716°F and 480°C/ 896°F.

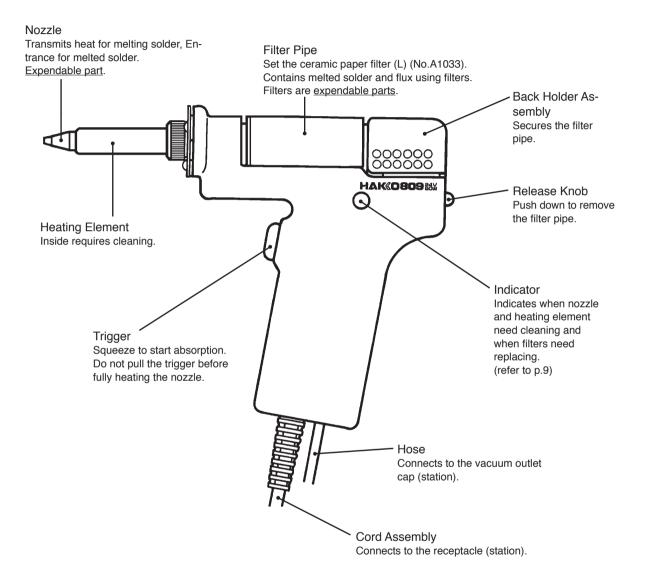
Since mishandling may lead to burns or fire, be sure to comply with the following precautions.

- Do not touch the metallic parts near the nozzle, nearby plastic parts and the spring 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.

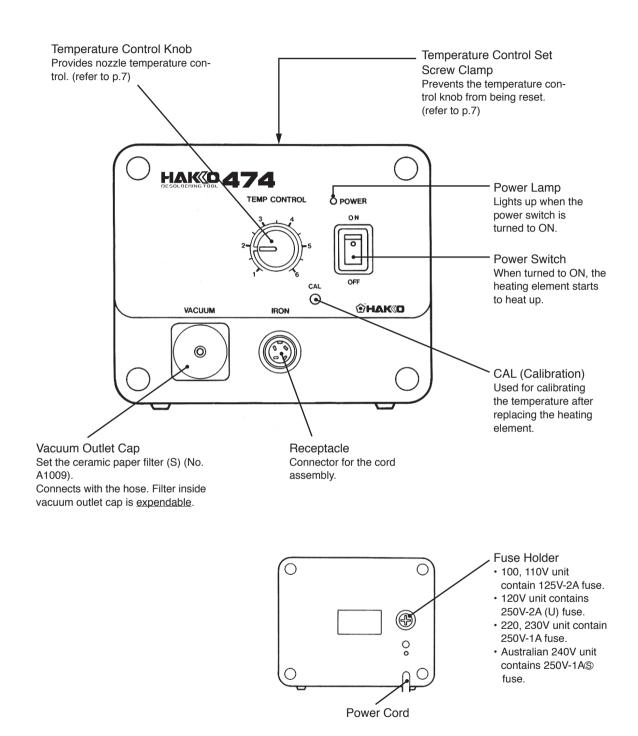
To prevent damage to the unit and ensure a safe working environment, be sure to comply with the following precautions.

- Do not use the unit for applications other than desoldering.
- Do not rap the desoldering gun 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.
- Set the ceramic paper filter (S) for the filter retainer (station), and the ceramic paper filter (L) for the filter pipe (gun).
- Maintain the desoldering gun and the station.
- While using the unit, don't do anything which may cause bodily harm or physical damage.

Desoldering Gun



Station



4. Operation

Preparation-Assembly and Connection

Assemble the HAKKO 474 on a flat surface.

1 Remove the pump securing screw (M4 × 25 marked red) from the bottom of the station.

2 Assemble the iron holder.

- Set the spring iron holder and cleaning pin holder in the iron holder base.
- Dampen the cleaning sponge with water and then squeeze it dry.

↑ CAUTION

The sponge is compressed. It will swell when moistened with water.

Be sure to dampen the sponge with water before use.

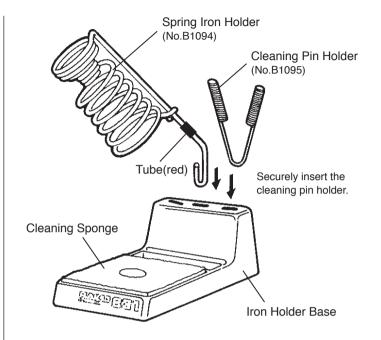
Be sure to remove the round portion of the sponge.

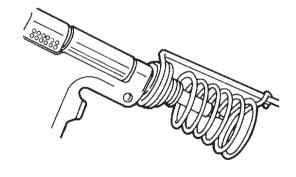
3 Insert the desoldering gun and cleaning pins.

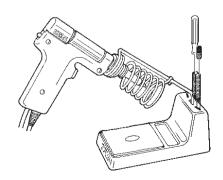
• Fully insert the desoldering gun into the spring iron holder.

↑ CAUTION

The spring iron holder becomes extremely hot during operation of the desoldering gun. Do not touch the spring iron holder during and imme diately after using the gun.







4 Connections

⚠ CAUTION

Be sure to turn off the power switch before connecting or disconnecting the cord assembly and the power plug. Failure to do so may damage the P.W.B.

- · Connect the cord assembly to the receptacle (marked "IRON").
- Connect the hose to the vacuum outlet cap (marked "VACUUM").

5 Power switch

· Confirm that the power switch is set in the OFF position, then connect the power plug to the power source.

⚠ CAUTION

The entire unit is constructed of conductive materials. Always ground the unit.

- · Turn the power switch to ON. The power lamp should light up.
- The nozzle begins to heat up as soon as the power switch is turned to ON.
- 6 After turning the power switch to ON, wait 3 minutes before beginning desoldering operations.

IRON



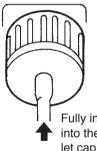


Insert the cord assembly by keying the plug to the key on the receptacle.

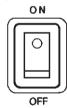


Secure the plug by turning it clockwise.

VACUUM



Fully insert the hose into the vacuum outlet cap.



The power lamp lights up.

The power lamp doesn't light

- 1. Is the power cord properly connected?
- 2. Is the fuse blown?



The nozzle heats up.

The nozzle doesn't heat up.

- 1. Is the cord assembly properly connected?
- 2. Is the heating element broken?

iron holder when not in use.

4. Operation

Desoldering

After turning the power switch to ON, wait 3 minutes before beginning desoldering operations.

1 Set the temperature.

↑ CAUTION

Always set the temperature to as low as possible for the work being done.

 To more precisely set the temperature ature, measure the temperature at the nozzle using a soldering iron thermometer and adjust the temperature control knob accordingly.

We recommend the HAKKO 191 thermometer or HAKKO 192 soldering tester for measuring the nozzle temperature.

 The temperature control knob can be secured by tightening the temperature control set screw clamp ("+" screw) at the top of the HAKKO 474 unit.

2 Clean the tip of the nozzle.

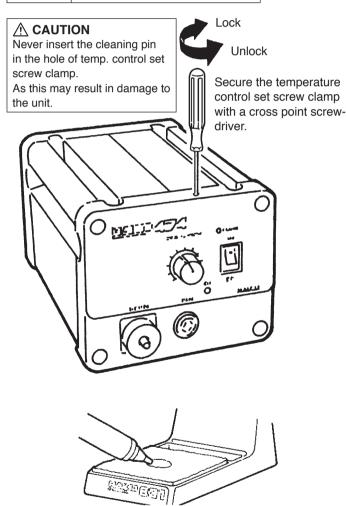
 Keep the solder-plated section of the nozzle a shiny white by coating it with a small amount of solder.

If the tip of the nozzle is coated with oxide, the nozzle's heat conductivity will be lowered.

Coating the tip with a small amount of fresh solder ensure maximum heat conductivity.

The temperature can be adjusted between 380°C (716°F) and 480°C (896°F) with temperature control knob. Please refer to the chart below, and adjust the temperature control knob.

Knob	P.W.B.	
1 and 2	Single-sided P.W.B.	
3 and 4	Through-hole P.W.B.	
5 and 6	Multilayer P.W.B.	



Wipe away any oxide or old solder from the nozzle using the hole in the center of the sponge.

3 Melt the solder.

 Apply the nozzle to the soldered part and melt the solder.

⚠ CAUTION

Never allow the nozzle to touch the board itself.

· Confirm that the solder is melted.

↑ CAUTION

To confirm that all solder is melted, observe the inside of the hole and the backside of the P.W.B. If this is difficult to do, try slowly moving the lead with the nozzle – If the lead moves, the solder is melted.

↑ CAUTION

Never move the lead by force. If it doesn't move easily, the solder isn't yet fully melted.

4 Absorb the solder.

 After confirming that the solder is completely melted, absorb the solder by squeezing the trigger on the gun.

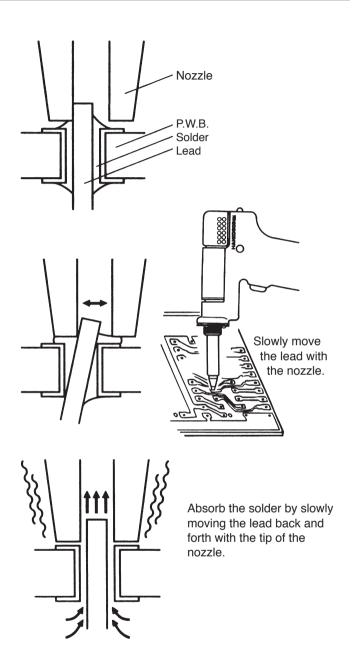
↑ CAUTION

Never leave any solder remaining inside the hole in the P.W.B.

 After fully absorbing all the solder, cool the soldering junction in order to prevent it from becoming resoldered.

5 Problems during desoldering.

 If solder remains, resolder the component and repeat the desoldering process.



4. Operation

Heated solder and flux can cause oxides to form and adhere to the nozzle and the inside of the heating element. These oxides not only lower the heat conductivity, but can also clog the nozzle and heating element, resulting in a drop in suction efficiency. Should there be a noticeable drop in suction efficiency during operation, replace the filter and clean the nozzle and heating element with the provided cleaning pin.

Cleaning during Operation

1 Observing the indicator

While looking at the indicator and with the hole of the nozzle open, pull the trigger and look at the indicator. If it is red, clean the nozzle and heating element, empty the filter pipe, and replace the filters. If the indicator is blue, cleaning is not necessary and operations can be resumed.

↑ CAUTION

The indicator will not operate accurately if the hole of the nozzle is closed or if the solder in the hole of the P.W.B. is not melted.

↑ CAUTION

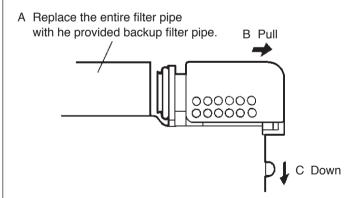
The indicator on the HAKKO 475 reads in a different way.
For instruction on the reading the HAKKO 475 indicator, please refer to the HAKKO 475 instruction manual.

2 Replacing the filter

Replace the filter as shown A to C. During operation, the filter pipe is very hot. Wait until the filter pipe is cool before replacing the filter. We recommend keeping a second filter pipe containing new filters handy, and replacing the installed filter pipe with this backup filter pipe.

Normal	Abnormal	Solution
		If the indicator is more than half red, replace the filter and clean the nozzle and
Blue or slight amount of red can be seen.	More than half of the indicator is red.	the inside of the heating element. (refer to p.12 Maintenance of the Desoldering Gun)

⚠ CAUTION : If there is a noticeable drop in suction efficiency, clean the nozzle and heating element with the cleaning pin.



Problems during Desoldering

- A. The solder in the junction is not sufficiently melted.
- B. Suction power is dropping.

A. The solder in the junction is not sufficiently melted.

• Temperature is not high enough

The following parts require a greater heat capacity to desolder.

 Multilayer P.W.B.s, power supplies, ground planes in through-hole P.W.B.s, high-capacity transistors, triacs with heat radiation fins, tuner P.W.B. ground wires, and large-scale transformer terminals.

Use a preheating oven or heating gun to heat the P.W.B. to a temperature that won't damage the board or its components [between 70°C (160°F) and 80°C (180°F)], then desolder. Do not increase the temperature of the gun by recalibration as this may damage the P.W.B. and its components.

Nozzle is worn out.

 When the nozzle begins to wear out, the heating efficiency begins to decline. Check the nozzle. If the solder plating is damaged, or the nozzle is eroded, replace the nozzle. (refer to p.12)

B. Suction power is dropping.

 Replace the filters, and clean the nozzle and the inside of the heating element, (refer to p.12 to p.16, Maintenance of Desoldering Gun and Station)

Air is leaking from the vacuum system.

Air leakage cannot be determined from the indicator. Check the air-tightness of the following parts and replace any that are worn.

- a. Contact point of the nozzle and heating element
- b. Front holder and nearby parts
- c. O-ring in the back holder
- d. Hose
- e. Vacuum outlet cap
- f. Packing and nearby parts

Post-operation Maintenance

To ensure a long service life, always perform the following maintenance procedures immediately after using the HAKKO 474 unit.

- Remove all solder from the inside of the nozzle and heating element.
- Clean the tip of the nozzle with the cleaning sponge, then coat the tip with a fresh layer of solder to protect the solder plating.

Troubleshooting Guide

★WARNING: If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarity qualified person in order to avoid personal injury or damage to the unit.

Power lamp does not light up.

- Is the power cord plugged in correctly.
 Securely insert the power cord into the power supply.
- Is the fuse blown?
 Determine why the fuse blew and eliminate the cause, then replace the fuse.

 Example Is the inside of the gun short-circuited?

Pump does not operate.

- Is the cord assembly properly connected?
 Reconnect the cord assembly. (refer to p.6)
- Is the nozzle or hole in the heating element clogged?
 Clean it. (refer to p.12)

Solder is not being absorbed.

- Is the spring filter full of solder?
 Replace it with a new one. (refer to p.13)
- Is the ceramic filter hardened? Replace it with a new one .
- Is there a vacuum leak?
 Check the connections and replace any worn parts.
 (refer to p.10)

The nozzle does not heat up.

- Is the desoldering gun cord assembly properly connected?
 - Reconnect it. (refer to p.6)
- Is the heating element damaged?
 Replace it. (refer to p.17)

NOTE: When repairs are needed, please send both the desoldering gun and the station to your sales agent.

5. Maintenance (Desoldering Gun)

Properly maintained, the HAKKO 474 desoldering our should provide years of good service. Efficient desoldering depends upon the temperature, and the quality and quantity of the solder and flux. Perform the following service procedures as dictated by the conditions of the gun's usage.

MARNING: Since the desoldering gun can reach a very high temperature, please work carefully. Except when cleaning the nozzle and heating element, always turn the power switch off and disconnect the power plug before performing any maintenance procedure.

Servicing the Desoldering Gun

↑ CAUTION

The desoldering gun will be extremely hot. During maintenance, please wear gloves and work carefully.

1 Inspect and clean the nozzle.

- Plug in the power cord, turn the power switch On and let the nozzle heat up.
- Clean out the hole of the nozzle with the nozzle cleaning pin.

⚠ CAUTION

The cleaning pin will not pass through the nozzle until the solder inside the nozzle is completely melted.

- If the cleaning pin does not pass through the hole in the nozzle, clean with the cleaning drill.
- Check the condition of the solder. plating on the tip of the nozzle.
- If it is slightly worn, recoat the tip with fresh solder to prevent oxidation.
- · Check the condition of the surface and inside hole of the nozzle.
- · If either is worn or eroded, or the inside diameter seems unusually wide, replace the nozzle.

⚠ CAUTION

The inside hole and the surface of the nozzle is plated with a special

Should this alloy become eroded by high-temperature solder, the nozzle will not be able to maintain the proper temperature.

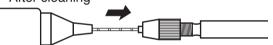
Cleaning with the nozzle cleaning pin



Cleaning with the cleaning drill

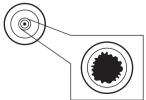
 Before cleaning Insert the bit while turning it clockwise.

After cleaning



Pull the drill bit out straight without turning it.

Solder plating



Diameter of hole is widened through erosion.

⚠ CAUTION

If the cleaning drill is forced into the nozzle, the drill bit could break or be damaged.

⚠ CAUTION

Please use the proper size cleaning pin or cleaning drill for the nozzle diameter.

⚠ CAUTION

Unfortunately, it is often difficult to observe this condition. Therefore, if desoldering efficiency goes down and all other parts appear to be OK, the nozzle is probably eroded and should be replaced.

2 Disassemble the heating element.

⚠ CAUTION

The heating element is very hot during operation.

3 Clean out the hole in the heating element with the provided cleaning pin.

↑ CAUTION

Be sure the solder in the hole in the heating element is completely heated, before cleaning the hole.

- If the cleaning pin cannot pass through the hole, replace the heating element.
- · Turn the power off after cleaning.

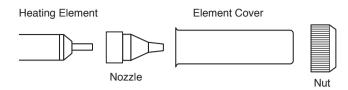
4 Replace the filters.

- · Turn the power switch OFF,
- When the filter pipe is cool to the touch, push down the release knob at the back of the gun and remove the filter pipe.



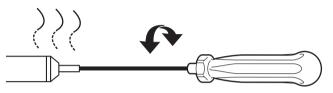
The filter pipe is very hot.

- · Examine the front holder.
- · Examine the spring filter.
- Examine the ceramic paper filter (L). (No.A1033)



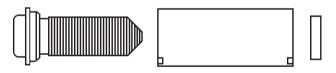
Remove the nut with the attached wrench.

Scrape away all oxidation from the hole in the heating element until the cleaning pin passes cleanly through the hole.



The cleaning pin passes cleanly and completely through the hole.

Front Holder



Spring Filter

Ceramic Paper Filter (L) (No.A1033)

Replace

Stiff and cracked.

Replace

Solder is collected in two-thirds of the spring filter.

Replace

Ceramic paper filter is stiff with flux and solder.

5 Secure the filters.

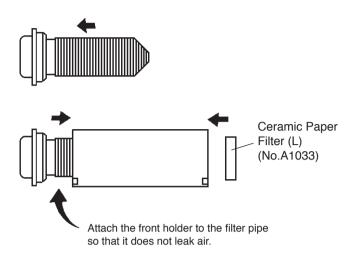
- Attach the spring filter to the front holder
- Attach the front holder to the filter pipe.

↑ CAUTION

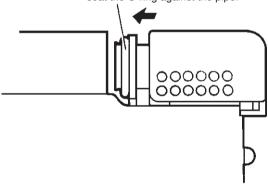
Be sure the front holder is correctly aligned.

⚠ CAUTION

Use the ceramic paper filter (L) for the filter pipe (gun). Using of the ceramic paper filter (S) in the filter pipe may cause to break or the power to drop.



Firmly press the back holder assembly into the filter pipe in order to properly seat the O-ring against the pipe.



6 Assemble the heating element.

 Attach the nozzle and securely tighten the nut with the attached wrench.

↑ CAUTION

If the nut is loose, air will leak and the temperature will drop.



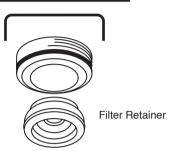
5. Maintenance (Station)

Cleaning the inside of the Filter Case

1 Replace the ceramic paper filter (No.A1009).

Remove the ceramic paper filter and inspect it. If it is stiff with flux, replace it.

VACUUM



Remove the filter retainer and push out the ceramic paper filter.



Ceramic Paper Filter (S) (No.A1009)

2 Reassemble the filter case.

↑ CAUTION

Set the ceramic paper filter (S) for the filter retainer (station). Using the ceramic paper filter (L) in the filter retainer may cause to break or the power to drop.

Ceramic Paper Filter (S) (No.A1009)

Secure the vacuum outlet cap.



-Apply silicone grease to the O-ring (S20) and securely tighten the vacuum outlet cap to prevent air leakage.

Cleaning the Pump

↑ WARNING

Unplug the power cord before starting this procedure.

1 Disassemble the pump heads.

- · Remove the rear panel.
- · Remove the cover.
- Remove the pump head from each side of the pump.

2 Clean the pump head.

- Remove the valve plate and fixing plate.
- Remove any flux adhering to the plates.

↑ CAUTION

If the fixing plate is difficult to remove, apply hot air to it to warm it up.

Never use excessive force to remove the plate as it is easy to bend, and a bent plate will allow air to leak out and reduce solder vacuuming efficiency.

⚠ CAUTION

Clean the plates only with alcohol or thinner.

Replace

If the valve plate is bent or stiff, replace it.

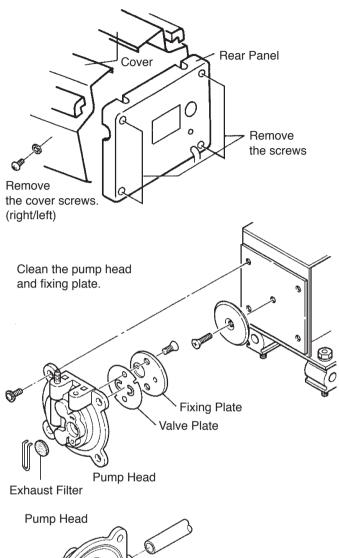
 If the exhaust filter is dirty, replace it.

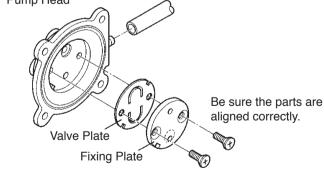
3 Assemble the pump heads.

Reassemble the valve plate and fixing plate.

↑ CAUTION

When assembling the pump, be sure to check for air leaks.





6. Replacement Parts

Replacing the Heating Element

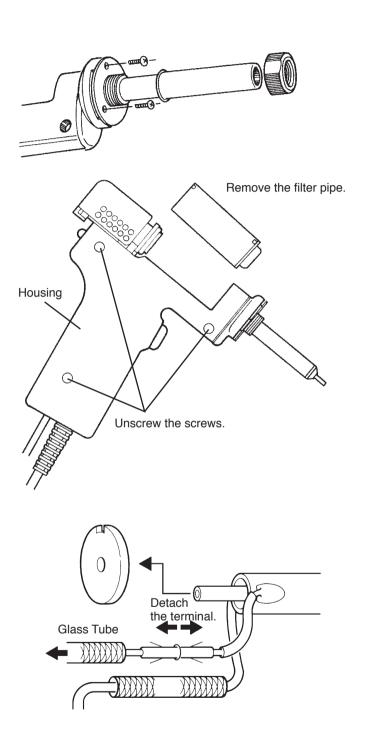
⚠ WARNING

Unplug the power cord before starting this procedure.

The resistance value of a working heating element is 2-4 Ω at 23°C (73° F). If the value you get is outside this range, replace the heating element.

- 1 Disassemble the heating parts.
- 2 Separate the housing.

3 Detach the terminal and remove the heating element.



4 Insert a new heating element and reassemble.

(Heating element 24V-50W)

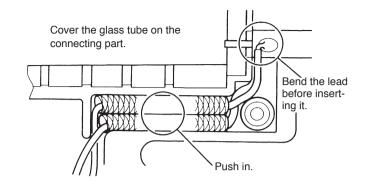
↑ CAUTION

Before reassembling enclosure, make sure connectors are completely covered by the glass tube.

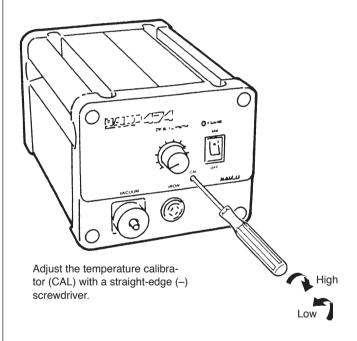
5 Recalibrate the temperature.

The resistance of new heating element varies, resulting in variations in operating temperatures. It is necessary to recalibrate the temperature every time the heating element is replaced.

- Set the temperature control knob to 1 and allow the gun to warm up for 3 minutes.
- Using a tip thermometer, adjust the temperature calibrator (marked "CAL") until the nozzle temperature reads at 380°C (716°F).



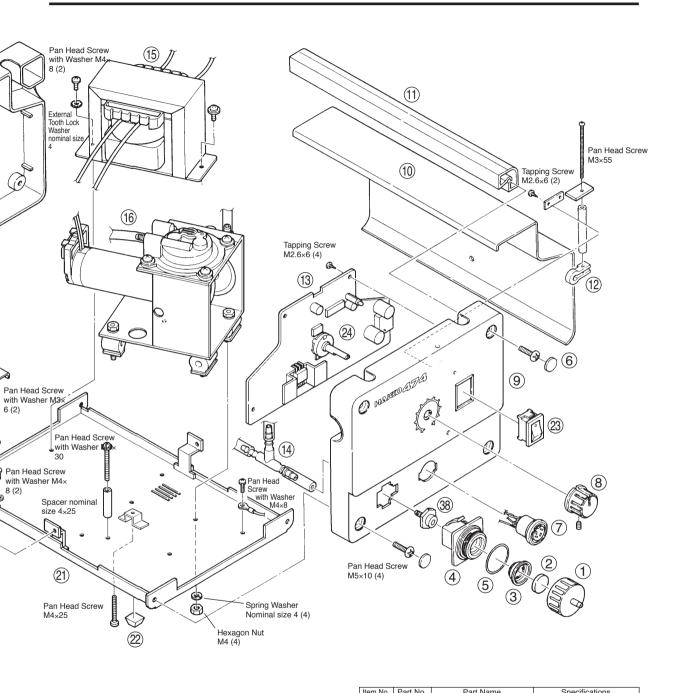
Position the leads in groove and press them into place. Be careful that the leads do not get caught in the housing.



7. Parts List (Station)

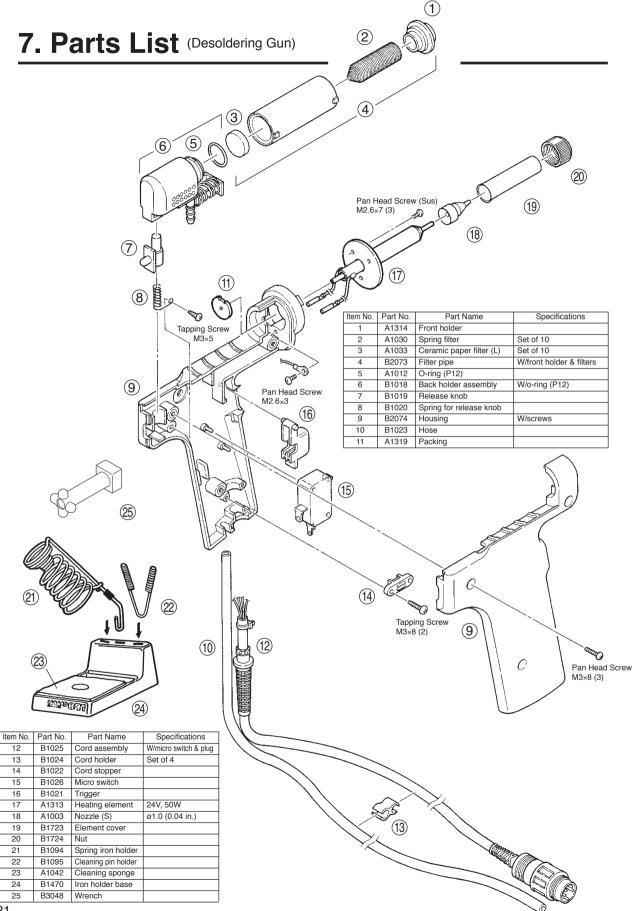
Note: Spare or repair parts do not include mounting screws, if they are not listed on the description.

Item No.	Part No.	Part Name	Specifications				_
1	B1029	Vacuum outlet cap			_		(17) /
3	A1009 B1063	Ceramic paper filter (S) Filter retainer	10 pcs.			(10)	
4	B1031	Vacuum outlet retainer	W/o-ring (S20)				
5	B1034	O-ring (S20)				(18)	
6	B1038	Cover for securing screw	Set of 4		(20)		
7	B1036 B1028	Receptacle Knob				- William	
9	B2061	Front panel		(8			♥
10	B1093	Cover	One side	8			
11	B1061	Handle	One side				
12 13	B1044 B2057	Temp. control set screw clamp P.W.B.	W/potentiometer			$\mathcal{M} \subset \mathcal{M}$	
	DZ007	1.11.5.	Wipotoniiomotor				
Pan Head with Wasl M3×6 Pan He with Wasl M4×10	39 (and Screw asher	Set Screw M4x6 Flat Head Screw M4x12 (2)	31) 32			Pan Head Screw M5x10 (4) Internal Tooth Lock Washe norminal size 4 (2) Truss Screw (Zn, black) M4x5 (2) 30	
ma		(35)		Item No.	Part No.	Part Name	Specifications
U	36)) w		14	B2063	Inner hose assembly	
(37)	_			15	B2065	Transformer	100-24V
<u>.</u> .				15	B2077 B2080	Transformer Transformer	110-24V 220-24, 230-24, 240-24V
				16	B2080 B2444	Pump	220-24, 200-24, 240-24V
				17	B2067	Rear panel	W/rating label
				18	B1041	Fuse holder	w/o fuse
				"	B1134	Fuse holder (S)	w/o fuse Australian 240V
					B1042 B1138	Fuse Fuse	125V-2A/100, 110V 250V-1A/220, 230V
				19	B1138	Fuse	250V-1A/S/Australian 240V
				1		1	



Item No. Part No.		Part Name	Specifications
	B2068	Power cord, 3 wired cord & American plug	U.S.A.
	B2079	Power cord, 3 wired cord but no plug	
20	B2081	Power cord, 3 wired cord & Australian plug	
20	B2082	Power cord, 3 wired cord & BS plug	
	B2083	Power cord, 3 wired cord & European plug	
	B3505	Power cord, 3 wired cord & American plug	
21	B2066	Chassis	
22	B1037	Rubber foot	Set of 4
23	B1084	Switch	
24	B1078	Potentiometer	
25	B1053	Balance weight	
26	B1312	Crank	W/bearing

for bearing < shaft o frame	W/a screw
	W/a screw
frame	
r	
ragm setting plate	
nragm	Set of 2 w/screws
g plate	
plate	Set of 2
head	W/screws
ust filter	Set of 2
retaining pin	
case joint	
oer	Set of 2
	r rragm setting plate rragm g plate ragm g plate plate bead ust filter retaining pin case joint per



8. Specifications

Name	HAKKO 474
Power Consumption	100W

Model Name	
Output	24V ~
Vacuum Generator	Vacuum pump, double cylinder type
Vacuum Pressure (max.)	80kpa (600 mm Hg) (24 in. Hg)
Suction Flow	15 ∉min.
Tip to Ground Potential	< 2mV (typical 0.6mV)
Tip to Ground Rresistance	< 2Ω
Dimensions	165(W) × 135(H) × 260(D)mm
	(6.5 × 5.31 × 10.24 in.)
Weight	3.8kg (8.4lb.)

Desoldering Gun

Model Name	HAKKO 809	
Part No.	C1183	
Power Consumption	50W (24V)	
Temperature Range	380 to 480°C (716 to 896°F)	
Insulation Resistance	> 300MΩ at 420°C (790°F)	
Nozzle Inside Diameter	ø1.0mm (0.04 in.) (nozzle S standard)	
Dimensions	135(W) x 174(H)mm (5.31 x 6.85 in.)	
Weight (w/o cord)	200g (0.44lb.)	

Condition of measurement

· Insulation resistance

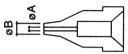
The insulation resistance was measured between the nozzle and the lead of the heating element using a 500 V DC insulation resistance meter. Caution: The insulation resistance cannot be measured between the nozzle and the power plug as the transformer between the secondary part (heating element) and the primary part acts as an insulator.

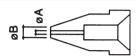
 Voltage leakage
 The voltage leakage was measured between the nozzle and the grounding
 The voltage leakage was measured between the nozzle and the grounding plug at a temperature of 480°C (896°F) using an AC mV meter. Caution: Be sure to ground the unit before measuring the voltage leakage.

Specifications and design are subject to change without notice.

Replacement parts

Part No.	Part Name	Specifications
A1002	Nozzle S ø0.8mm (0.03 in.)	
A1003	Nozzle S ø1.0mm (0.04 in.)	
A1004	Nozzle ø0.8mm (0.03 in.)	
A1005	Nozzle ø1.0mm (0.04 in.)	
A1006	Nozzle ø1.3mm (0.05 in.)	
A1007	Nozzle ø1.6mm (0.06 in.)	





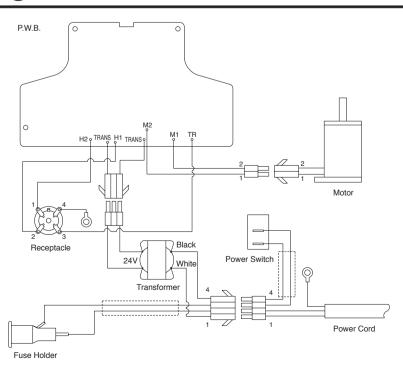
Part No.	øΑ	øΒ
A1002	0.8mm (0.03 in.)	1.8mm (0.07 in.)
A1003	1.0mm (0.04 in.)	2.0mm (0.08 in.)

	Part No. ØA		øΒ		
ĺ	A1004	0.8mm (0.03 in.)	2.3mm (0.09 in.)		
	A1005	1.0mm (0.04 in.)	2.5mm (0.1 in.)		
ĺ	A1006	1.3mm (0.05 in.)	3.0mm (0.12 in.)		
ĺ	A1007	1.6mm (0.06in.)	3.0mm (0.12 in.)		

Part No.	Part Name	Specifications	
B1215	Cleaning pin	For heating element	
B1086	Cleaning pin	For ø0.8mm (0.03 in.) nozzle	
B1087	Cleaning pin	For ø1.0mm (0.04 in.) nozzle	
B1088	Cleaning pin	For ø1.3mm (0.05 in.) nozzle	
B1089	Cleaning pin	For ø1.6mm (0.06 in.) nozzle	
B1302	Cleaning drill	For ø0.8mm (0.03 in.) nozzle	
B1303	Cleaning drill	For ø1.0mm (0.04 in.) nozzle	
B1304	Cleaning drill	For ø1.3mm (0.05 in.) nozzle	
B1305	Cleaning drill	For ø1.6mm (0.06 in.) nozzle	

Part No.	Part Name	Specifications		
B2073	Filter pipe	W/front holder & filters		
A1009	Ceramic paper filter (S)	For filter case 10pcs.		
A1033	Ceramic paper filter (L)	For filter pipe 10pcs		
A1030	Spring filter	10pcs.		
A1313	Heating element	24V, 50W		
A1028	Silicone grease			
A1042	Cleaning sponge			

9. Wiring



中國RoHS: 產品中有毒有害物質或元素的名稱及含量

	有毒有害物質或元素						
部件名稱	鉛(Pb)	汞(Hg)	鎘(Cd)	六價鉻 (Cr(VI))	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)	
泵組件	×	0	0	0	0	0	
過濾管接合套	×	0	0	0	0	0	
吸錫槍部	×	0	0	0	0	0	
電路板	×	0	0	0	0	0	
保險絲套	×	0	0	0	0	0	
清潔鑽	×	0	0	0	0	0	
插頭	×	0	0	0	0	0	

- 〇: 表示該有毒有害物質在該部件所有均質材料中的含量均在SJ/T 11363-2006



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