



**Smoke Absorber** 

# **Instruction Manual**

Thank you for purchasing the HAKKO 494 Smoke

This Manual describes the use and maintenance of the Hakko 494.Please read it before using the unit. After reading the manual,keep it in a safe place for future reference.

4

Absorber.

### **Table of Contents**

Packing List	1
Notes on Usage, Specificaions	2
Names of parts, Assembly Procedure	3,4
Assembling the Absorption Pipe set	5
Maintenance, Parts Replacement	6,7
Parts List	8~10

# **Packing List**

Before using the set,please check the contents to be sure that all items are included.

Station		1 (16.4ft) 1 2 2 1 Set
Station	*Iron Stand not included available separately.	d.HAKKO 607(No.607)Iron Stand
Filter Case	Filter Cap	Pre-Filter
Duct	End Cover	Main Filter
Inlet Socket	Exhaust Duct	Nylon Strap
4	Suppressor	Absorption Pipe Set

### **Notes on Usage**

**CAUTION**: For Safety reasons, be sure to ground the unit by connecting the ground wire to a grounded terminal.

#### **Maintenance**

Be sure to regularly replace all expendable parts and clean the required areas. (Refer to "Maintenance, Parts Replacement" on Page 6.)

Unless specifically requested to do otherwise, always turn off the power switch and unplug the power cord from the power source before beginning any maintenance procedure.

### **Tip Temperature**

The tip temperature drops slightly when the smoke absorber is in use. In workplaces where strict temperature control is required, measure the tip temperature (using the HAKKO 191 thermometer) 10 minutes after operating the smoke absorber.

### Soldering Iron

A single HAKKO 494 unit can handle up to 10 Soldering Irons.

### **Filter**

Operating the smoke absorber without inserting filter may cause the turbo fan to malfunction. Always run the system with the filter in place.

### **Duct**

The duct should be a maximum of 20m(65.6 ft) in length on the suction side and 5m(16.4 ft) in length on the exhaust side.

### **Specifications**

Name	Hakko 494	
Station		
Part Name	art Name Station	
Frequency	50 Hz	60 Hz
Power Consumption	150 W	200 W
Static Pressure	240 mm Aq.	325 mm Aq.
<b>Absorption Capacity</b>	1.56 m <sup>3</sup> /min.	1.82 m <sup>3</sup> /min.
Outer Dimensions (W x H x D)	(12.68 x 11.81 x 15.2 in) w/o Handle, Cord	
Weight		

<sup>\*</sup>Specification and exterior are subject to change without prior notification.

Contents

Name

### •Replacement Parts

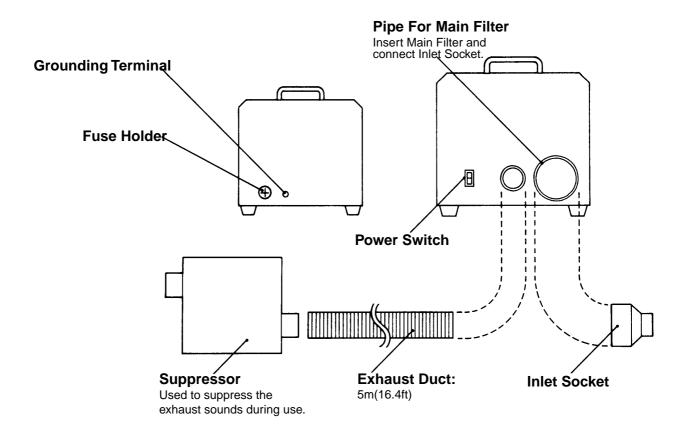
No.

C1028	Duct Set	Filter Cap
No.	Name/Specification	Contents
C1029	Absorption Pipe Set A/ DASH,900M/L	
C1030	Absorption Pipe Set B/ MACH-I(920,921,922)	Absorption Pipe1
C1031	Absorption Pipe Set C/ MACH-I(918)	Silicone Hose/1m(3.28 ft.)1 Hose Coupling Band5
C1032	Absorption Pipe Set D/ 457,458	Metal Fitting For Absorption Pipe1
C1033	Absorption Pipe Set E/ MG30W~100W	
C1034	Absorption Pipe Set F/ 455	
C1035	Absorption Pipe Set G/ 456	
C1086	Absorption Pipe Set H/ 901,902,904	H contains Cap Nut (1) and Wave Washer(1),additionally.
	1	1

#### Replacement Parts

Part No.	Part Name/Specification	
B1276	Filter Cap	
A1074	Pre-Filter/5 pcs.	
B1278	Filter Case	
B1292	Nylon Strap/2 pcs.	
B1279	Duct/1.5 m (4.92 ft.)	
B1293	Duct/3 m (9.84 ft.)	
B1277	End Cover	
B1280	Absorption Pipe A/6.5x1000,DASH,900M/L,MACH-I	
B1281	Absorption Pipe B/6.5x1300,455,457,458	
B1282	Absorption Pipe C/6.5 bent, MG30W~100W	
B1283	Absorption Pipe D/6.5x1400, 456	
B1596	Absorption Pipe E/6.5x800, 901,902,903,904	
B1284	Metal Fitting For Absorption Pipe A/ DASH,900M/L,457,458,901,902,903,904	
B1285	Metal Fitting For Absorption Pipe B/ MACH-I(920,921,922)	
B1286	Metal Fitting For Absorption Pipe C/MACH-I(918)	
B1287	Metal Fitting For Absorption Pipe D/MG30W~100W	
B1288	Metal Fitting For Absorption Pipe E/455	
B1289	Metal Fitting For Absorption Pipe F/456	
B1291	Silicone Hose/1m(3.28 ft.)	
B1314	Silicone Hose/E.S.D.,1m(3.28 ft.)	
B1290	Hose Coupling Band/5 pcs.	
B1294	Exhaust Duct/5 m (16.4 ft.)	
A1069	Main Filter/5 pcs.	
B1239	Timing Belt	
B1245	Inlet Socket	
B1246	Parallel Piping Joint	
C1026	Suppressor	

### Names of Parts, Assembly Procedure



### 1.Connect the Exhaust Duct

Connect the Exhaust Duct to the Outlet of the Station.

(Attch the Exhaust Duct to the root the Outlet).

### 2. Assemble the Duct Set

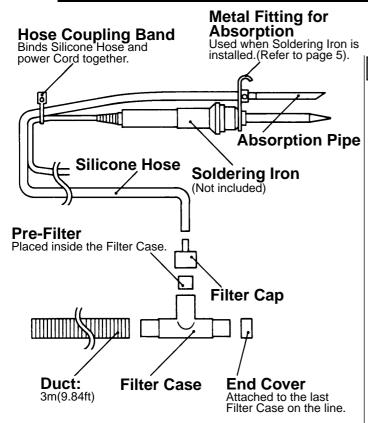
- Place the Pre-Filter in the Filter Case and attach the Filter Capto the Filter Case.
- •Connect the Duct to the Filter Case and attach the End Cover to the other end. (Put the End Cover on the Filter Case which is placed at the end).

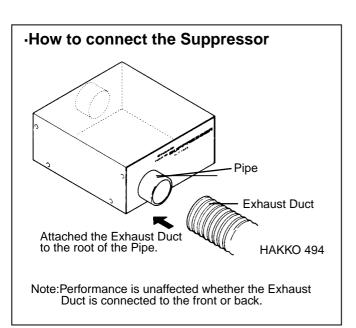
### 3. Connect the Absorption

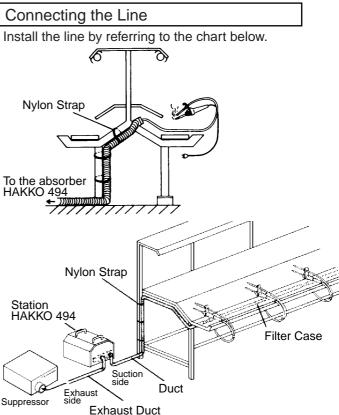
- •Connect the Soldering Iron to the Absorption Pipe Set.
- (Refer to "Assembling the Absorption Pipe Set" on Page 5).
- -Bind the Silicone Hose and Soldering Iron Power Cord together with the Hose Coupling Band
- -Attach the Silicone Hose to the tip of the Filter Cap.

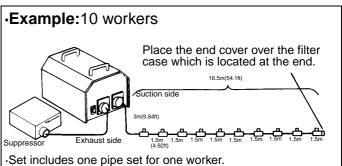
### 4.Connect the Duct Set

- -Connect the Duct to the Inlet Spcket.
- -Place the Main Filter in the Pipe For Main Filter on the Station and connect to the Inlet Socket.





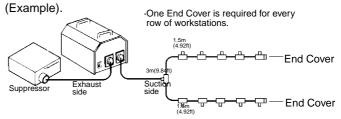




- ·Pipe sets for additional Soldering Iron are available separately. \*Attach the end cover to the Filter Case located at the end.

### Using the Options and the Parallel piping joint

Pallel piping joint(No.B1246)permit a varietyof piping layouts to be used.



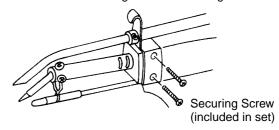
## Assembling the Absorption Pipe Set

### •Absorption Pipe Set A [No. C1029 for DASH, 900M/L1

- 1. Disassemble the parts numbered ① through ④.
- 2. Attach the Metal Fitting For Absorption Pipe to the threads on the Handle of the Soldering Iron. Handle 3. Reassemble the parts numbered 4 to 1 by above the disassembly instructions in reverse order.

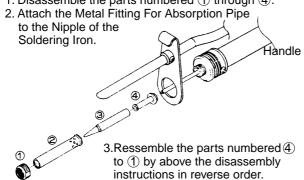
### •Absorption Pipe Set E [No. C1033 for MG30W~100W]

- 1. Remove the 2 screws indicated in the chart.
- 2. Attach the Metal Fitting For Absorption Pipe as shown in the chart and tighten the attaching screws.



### •Absorption Pipe Set B [No. C1030 for MACH-I(920/921/922)] •Absorption Pipe Set C [No. C1031 for MACH-I(918)]

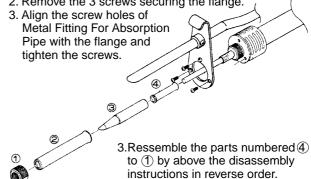
1. Disassemble the parts numbered ① through ④.



### Absorption Pipe Set F [No. C1034 for 455] •Absorption Pipe Set G [No. C1035 for 456]

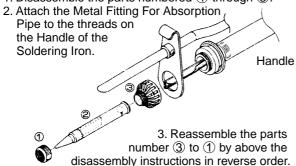
1. Disassemble the parts numbered ① through ④.

2. Remove the 3 screws securing the flange.



### •Absorption Pipe Set D [No. C1032 for 457/458]

1. Disassemble the parts numbered ① through ③.



### •Absorption Pipe Set H [No. C1086 for 901,902,904]

1. Remove the Cap Nut from the HAKKO 901/902/904, and use Cap Nut which is attached to the Absorption Pipe Set H.

2. Attach the Metal Fitting For Absorption Pipe, Wave Washer and Cap Nut from the Absorption Pipe Set H.

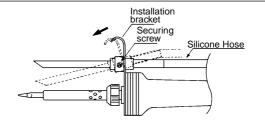
3. When attaching the Cap Nut, check to make sure that the Cap Nut is correctly threaded on the Handle.

### Adjustment

Adjust the length and angle of the pipe by monitoring the smoke emissions.

Length—adjust by loosening the screw.

-bend the installation bracket of the Angle-Metal Fitting For Absorption Pipe as shown right.



### Maintenance, Parts Replacement

Regular maintenance will maximize the operating life of the product.

### Replace the Main Filter

Replace the Main Filter when it turns yellow from flux bleeding into it.

Remove the Inlet Socket and pull out the Main Filter from the Pipe For Main Filter.

Note:The Main Filter can not be reused. Be sure to replace it.

### Clean the Absorption Pipe

Suction performance drops as flux builds up within the Absorption Pipe. Remove the flux regularly.

- Remove the Slicone Hose and loosen the screw to remove the Absorption.
- -Since the Absorption Pipe is made of stainless steel,a flux cleaning solution may be used to clean the pipe.

### Maintenance of the Duct Set

Suction performance drops as flux builds up in the Pre-Filter and Filter Cap. Perform maintenance following the instructions below.

### -Replace the Pre-Filter

Replace the Pre-Filter when it turns yellow from flux bleeding into it.

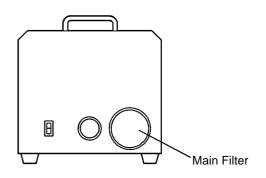
Remove the Filter Cap and pull out the Pre-Filter.

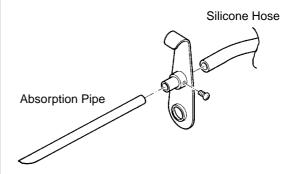
Note:The Pre Filter can not be reused. Be sure to replace it.

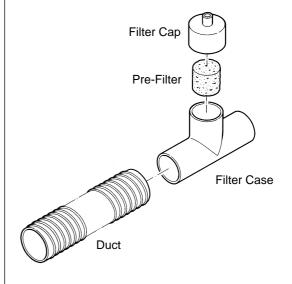
### -Clean the Filter Cap

Remove the Silicone Hose and remove any built-up flux.

Note: Since the flux is dry, it can be removed with a brush, etc. If the flux is difficult to remove, alcohol may be used to dissolve it. Do not use thinner, etc. Since it is harmful to the pipe.







### Replace the Timing Belt

Before replace the Timing Belt,turn off the Power Swich and detach the Power Cord from the power outlet.

### 1.Remove the old belt

- ·Remove the station cover.
- •Loosen the four M6 hexagon bolts. Note:Do not remove the bolts.
- ·Slide the mortor in direction "A" (indicated in drawing) until the belt is loose enough to remove.

### 2.Install the New Belt

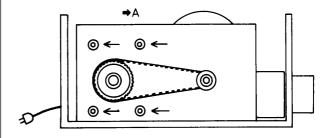
- Install the new belt onto the Pully.
- -Slide the motor away from direction "A" (indicated in drawing) until the belt is tight.
- •Tighten the four bolts while maintaining tension on the belt.

#### 3.Confirmation

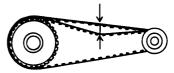
- •Check to see if the belt is appropriately tight by pressing it with the hand.
- •Check to make sure that all screws are tight, then reattach the main body cover.

Request from the manufacture:

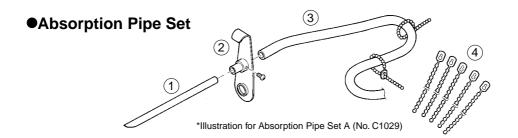
If repair should ever become necessary, please keep the product intact (do not disassemble it) and take it as is to retailer or agant.



2mm(0.88in.) of play when pressed down.



### **Parts List**



Item No.	Part No.	Part Name	Description
3	B1291	Silicon Hose	1m (3.28 ft.)
4	B1290	Hose Coupling Band	5 pcs.

<sup>•:</sup>All of Absorption Pipe Sets include 3 Silicone Hose and 4 Hose Coupling Band.
•tAbsorpting Pipe Set Q (No.C1125) has a different Silicone Hose from other ones (No.C1029–C1086).

### •No. C1029 [Absorption Pipe Set A/DASH,900M/L]

Item No.	Part No.	Part Name	Description
1	B1280	Absorption Pipe A	
2	B1284	Metal Fitting For Absorption Pipe A	

### •No. C1030 [Absorption Pipe Set B/MACH-I(920,921,922)]

	Item No.	Part No.	Part Name	Description
Γ	1	B1280	Absorption Pipe A	
Γ	2	B1285	Metal Fitting For Absorption Pipe B	

### •No. C1031 [Absorption Pipe Set C/MACH-I(918)]

Item No.	Part No.	Part Name	Description
1	B1280	Absorption Pipe A	
2	B1286	Metal Fitting For Absorption Pipe C	

### •No. C1032 [Absorption Pipe Set D/457,458]

Item No.	Part No.	Part Name	Description
1	B1281	Absorption Pipe B	
2	B1284	Metal Fitting For Absorption Pipe A	

### Duct Set

Item No.	Part No.	Part Name	Description
1	B1276	Filter Cap	
2	A1074	Pre-Filter	5 pcs.
3	B1278	Filter Case	
4	B1279	Duct	1.5m(4.92 ft)
5	B1292	Nvlon Strap	2 pcs.

(4)

#### •No. C1033 [Absorption Pipe Set E/MG (30W~100W)]

	-		, <del>-</del>
Item No.	Part No.	Part Name	Description
1	B1282	Absorption Pipe C	
2	B1287	Metal Fitting For Absorption Pipe D	

### •No. C1034 [Absorption Pipe Set F/455]

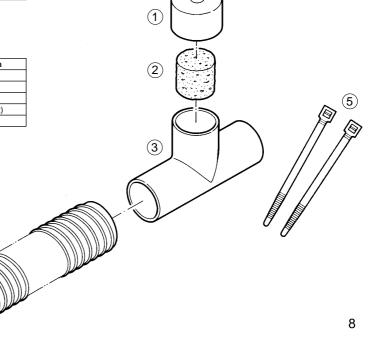
Item No.	Part No.	Part Name	Description
1	B1281	Absorption Pipe B	
2	B1288	Metal Fitting For Absorption Pipe E	

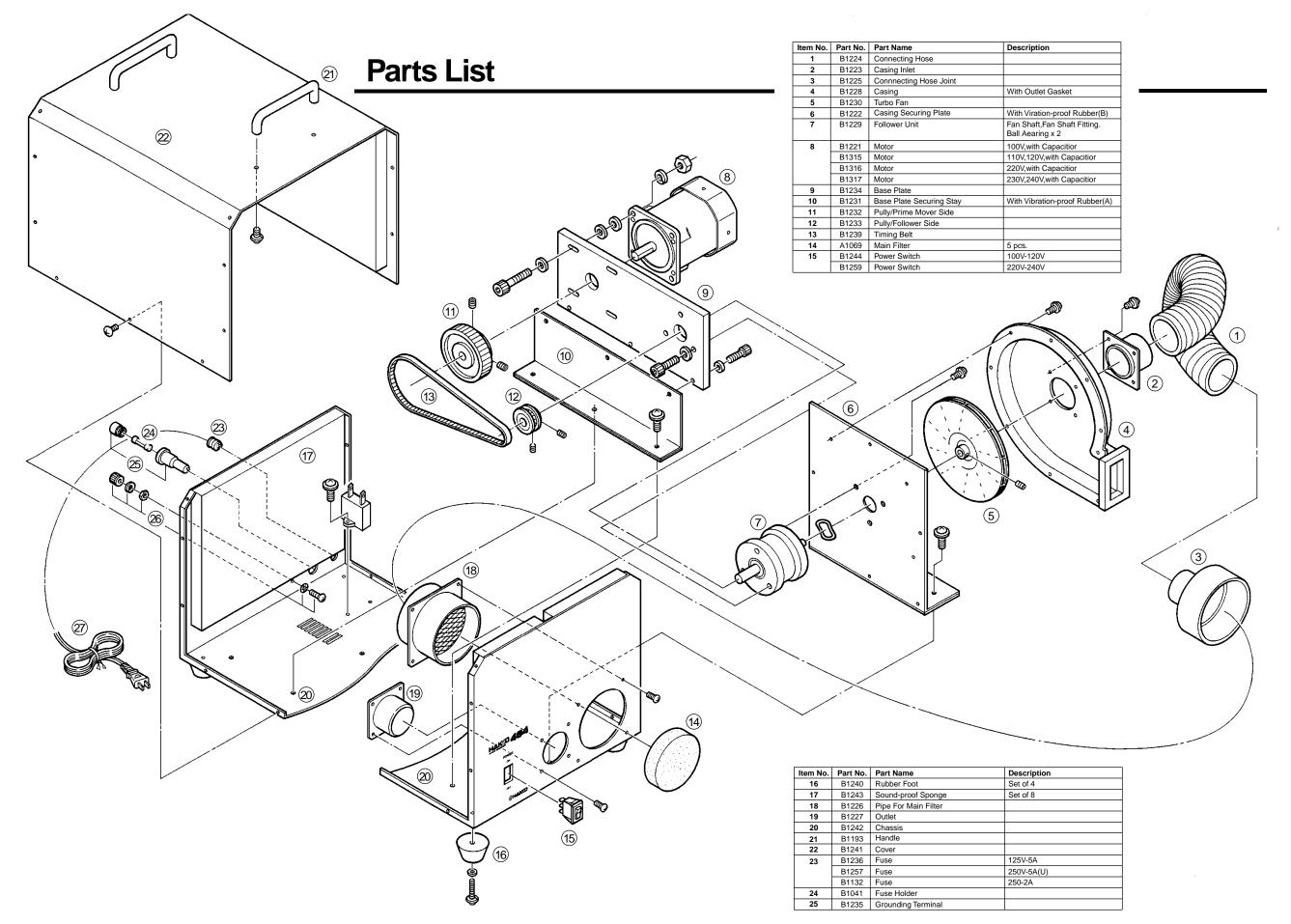
### •No. C1035 [Absorption Pipe Set G/456]

Item No.	Part No.	Part Name	Description
1	B1283	Absorption Pipe D	
2	B1289	Metal Fitting For Absorption Pipe F	

### •No. C1086 [Absorption Pipe Set H/901,902,903,904]

Item No.	Part No.	Part Name	Description
1	B1596	Absorption Pipe E	
2	B1284	Metal Fitting For Absorption Pipe A	
	B1597	Cap Nut	
	B1999	Wave Washer	





### Additional Information

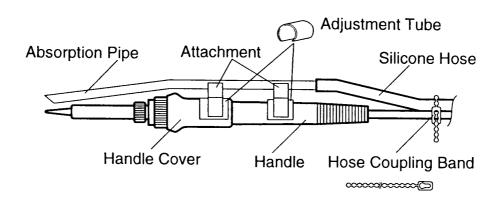
No.C1125 absorption pipe set Q (for HAKKO 907, 908) is newly added.

**Packing List** 

Part No.	Part Name
B1953	Absorption Pipe
B1954	Attachment/2 pcs.
B2184	Silicone Hose / 1.5m
B1955	Adjustment Tube/3 pcs.
B1290	Hose Coupling Band/5 pcs.

### Setting Up

- 1. Attach the two(2) thinner of the adjustment tubes to the handle for HAKKO 907, 908, the other to the handle cover. Attach the attachment to the adjustment tubes and to absorption pipe.
- 2. Binds the power cord of iron and silicone hose together with the hose coupling band.





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