

PAGE[®]
INCORPORATED

**OPERATION AND
MAINTENANCE
INSTRUCTIONS**

5050-0111

PROPERTY OF
ENGINEERING SERVICES

DO NOT REMOVE

MODEL SX-
300A
300BE
301
301BE

SELF CONTAINED, HIGH FLOW SODR-X-TRACTION[®]
SYSTEMS

Featuring
THERMO DRIVE[®]
Heat Control

INTRODUCTION

How many times have you said to yourself, "I could do a much better job if only I had the right tools." Our whole business at PACE is developing and bringing to you the right tools for your job in production, rework, repair and field service of electronic modules and assemblies. The new SX-300 systems with controlled heat, vacuum, pressure and hot air jet at your disposal will make even the toughest component replacement job a snap. We are proud of our products and know that with a little care they will serve you well.

Before using your new SX-300 Desoldering System, take a few minutes to become familiar with its set-up, controls, function tools and operating features.

THE SYSTEM

All Models of the SX-300 system are similar in appearance and operation.

Specific differences can be found in the specifications listed below.

1. POWER SOURCE

The sturdy aluminum case houses the motor/pump assembly, and electrical components. The temperature controls, electrical outlets, vacuum/pressure quick connect fitting, main power switch with indicator, and motor continuous run switch are mounted on the front panel. The 3 wire grounded power cord and the foot switch both with stress relief devices exit from the rear of the case.

2. FOOT SWITCH

Allows hand-free control of vacuum, pressure or hot jet to the Extractor Handpiece for applying optimum heat time cycle in all operational modes. The foot switch is placed on the floor in a comfortable position for the user. The cord is best run from the back of the bench to the foot switch.

3. FUNCTION TOOLS

The function tools include the solder extractor instrument with 3 wire grounded cord, extractor tips, visifilter, spare screw and cleaning brushes. Refer to the operating instructions included with the extractor for use and maintenance. The soldering iron with standard 1/8" diameter plated tip and 3 wire grounded cord. The hot tool holder for safe and convenient placement of the extractor handpiece and soldering iron, a hot solder dump tube for safe discharge of melted solder from the extractor transfer tube used

GENERAL CHARACTERISTICS

MECHANICAL PARAMETERS:

Width	10-1/8"	25.7cm
Height	5-5/8"	14.3cm
Depth	8-3/4"	22.2cm
Weight	6 pounds	4.8kg

VARIABLE AIR PRESSURE:

0.05psi to 20.0psi .03atm to 1.36atm

VARIABLE VACUUM PRESSURE:

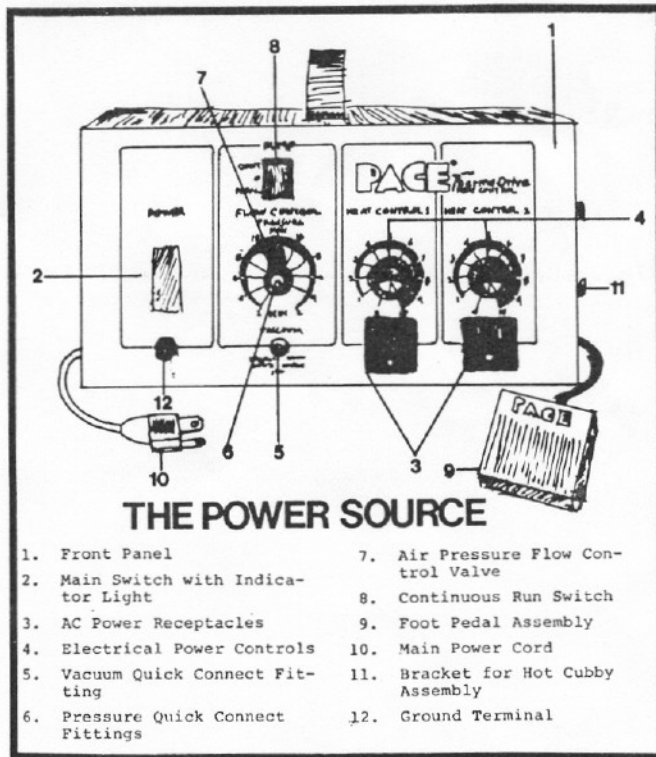
0.05 in Hg to 20.0 in Hg .0017atm to .668atm

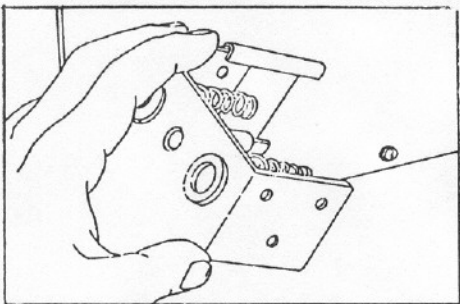
POWER AC 220 WATTS MAXIMUM

ZERO POWER SWITCHING IS STANDARD ON MODELS SX-301 AND SX-301BE

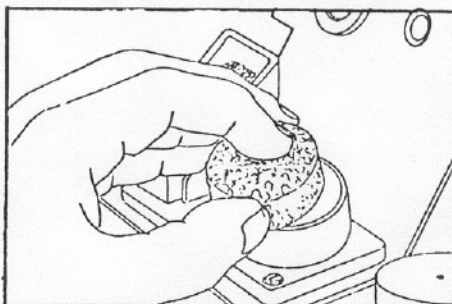
POWER REQUIREMENTS:

Model	Part No.	Electrical Power
SX-300A	8007-0069	115VAC 50/50Hz
SX-301	8007-0070	115VAC 50/60Hz
SX-300BE	8007-0055	220/240VAC 50/60Hz
SX-301BE	8007-0056	220/240VAC 50/60Hz

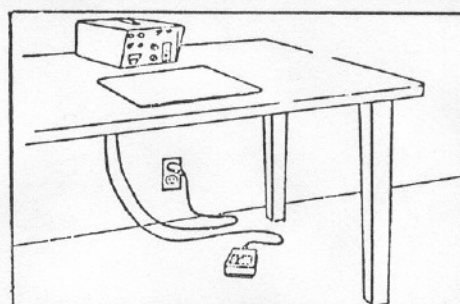




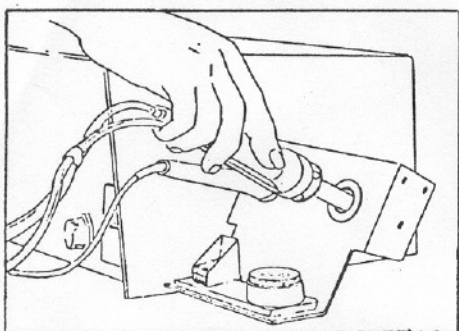
1. Attach Hot Tool Holder to bracket.



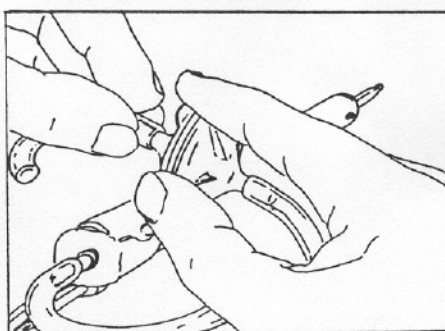
2. Remove cover and soak sponge in warm water. Replace in container.



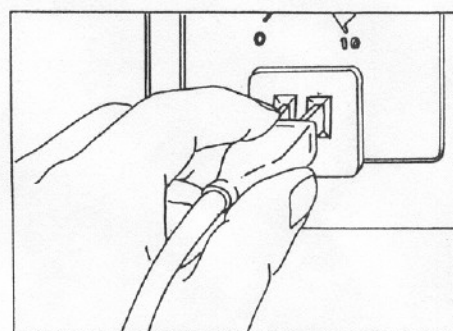
3. Position Foot Switch for operator convenience.



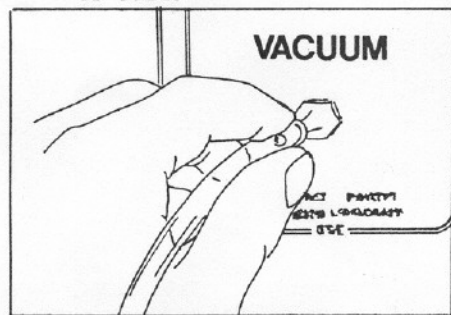
4. Place Extractor and Soldering Iron in Hot Tool Holder. Assemble clips to attach vacuum hose to power cord.



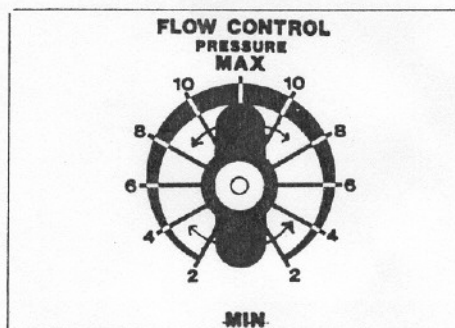
5. Cut hose 1" - 3" from end and attach VisiFilter as shown. Lettering side of filter towards Extractor.



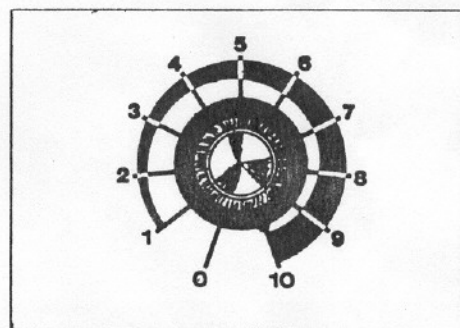
6. Insert Extractor plug into Heat Control 1 AC Power Receptacle, Soldering Iron plug into Heat Control 2.



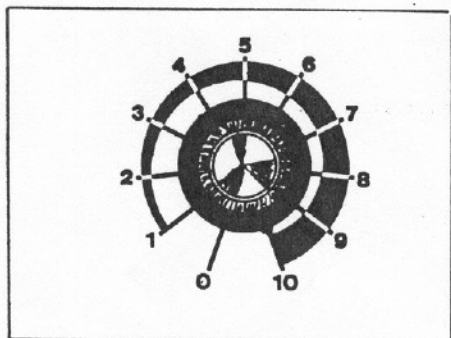
7. Attach hose to Vacuum fitting for solder removal operation.



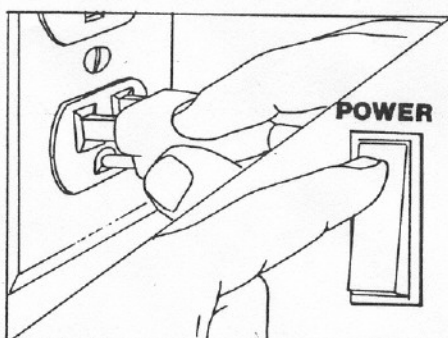
8. Adjust pressure flow control valve to maximum for air pressure, minimum for hot air jet.



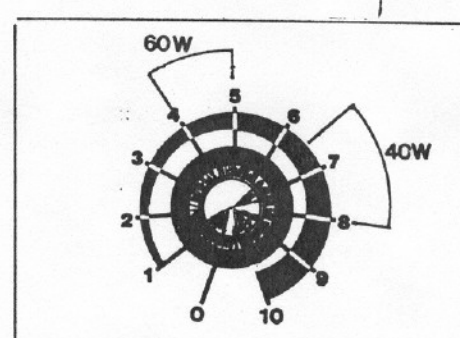
9. Adjust Soldering Iron power to maximum for normal soldering.



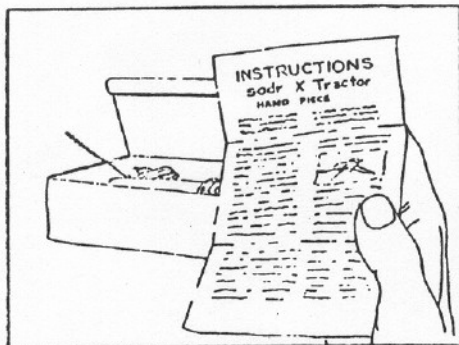
10. Plug in Line Power Cord. Turn main power switch **ON**.



11. Adjust extractor power to 10. Allow 10 minutes for warm-up.

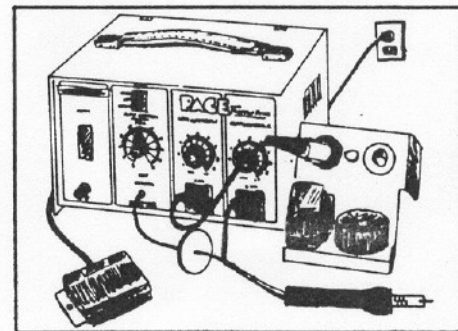


12. Adjust operating temperature for extractor. 6.5-8 for 40 Watt heater. 5-6 for 60 Watt heater.



13. Extractor operating and maintenance instructions are included in the box with your Extractor Hand-piece.

14. Pictorial diagram of System Set-Up, for operation.



PUMP MAINTENANCE

Normally, the Diaphragm Pump will require no maintenance. However, it is important that the external, final (VisiFilter™) filter be occasionally checked to assure that it is not contaminated. If it is, the filter should be replaced.

In the rare instance that flux or volatiles have contaminated the pump (normally, only if pump is run without the filter), the pump can be disassembled and cleaned (or components replaced) per the following instructions.

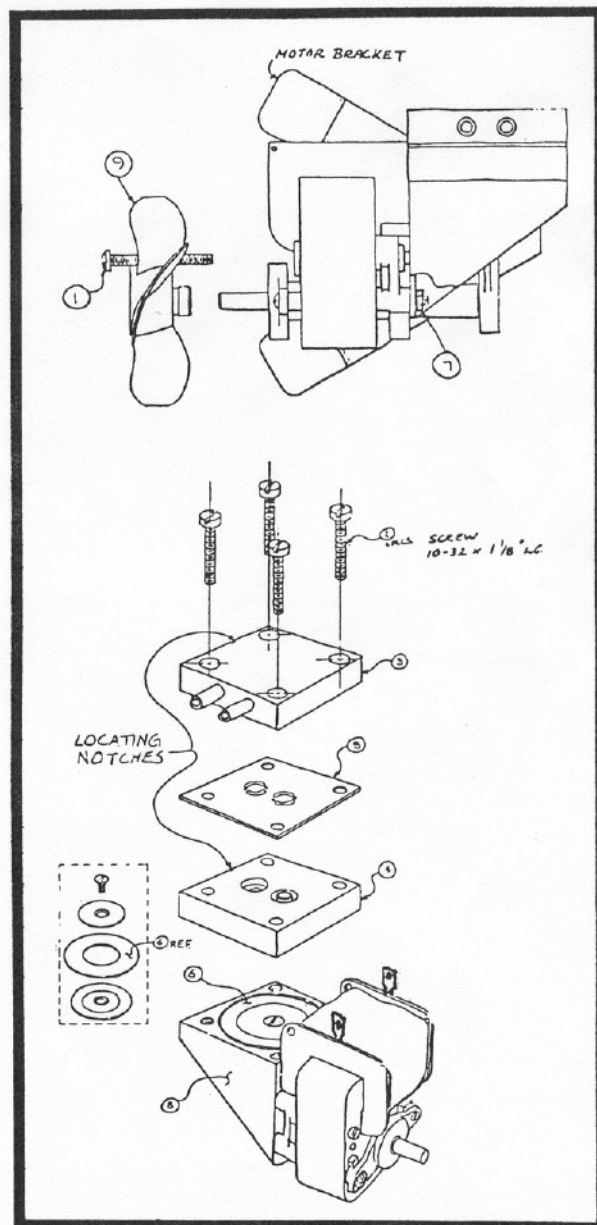
Servicing Instructions

DISCONNECT MAIN POWER CORD BEFORE SERVICING EQUIPMENT

1. Disconnect quick connect lugs (Item 10). Remove the fan (Item 9, 1338-0033) from the motor shaft. Remove the 6-32 x 1-5/8" screw (Item 1, 1405-0392) which holds the motor pump on the bracket. Remove pump from bracket and place on bench with open side of the pump housing (Item 10, 1140-0007) down.
2. Remove the four 10-32 x 1-1/8" screws (Item 2, 1405-0086) which hold the pump plates (Items 3,4) to the pump housing and remove the pump plates and valve sheet from the pump housing. Separate the pump plates (with valve sheet between them) and remove the valve sheet (Item 5, 1338-0027). Clean valve sheet by wiping it on a lint-free cloth soaked with PACE solvent (P/N 6997-0001) or equivalent such as Trichloroethane 1.1.1. Clean both sides and allow to dry. Clean pump plates, using a cotton swab and solvent and allow to dry before reassembling.
3. Clean diaphragm (Item 6, 1338-0025) using solvent on a paper towel. Clean both sides and allow to dry immediately. Also clean recessed area of pump housing (Item 8, 1140-0007) using solvent on a cotton swab.
4. Reassemble the pump. When reassembling, it is imperative that the rubber diaphragm be centered around the raised circular center of the plastic support washer. The notches in the pump plates must line up, and the valves in the valve sheet must line up with the valves in the pump plates. The four 10-32 x 1-1/8" screws are to be tightened approximately 1/4 turn after contact with pump plate and in a diagonal method.

When replacing the fan, a 1/16" gap must be left between the fan and the motor.

Note: Do not, at any time, loosen the four 6-32 nuts (Item 7) which hold the pump housing to the motor.



REPLACEMENT PARTS

Models SX-300A and SX-301

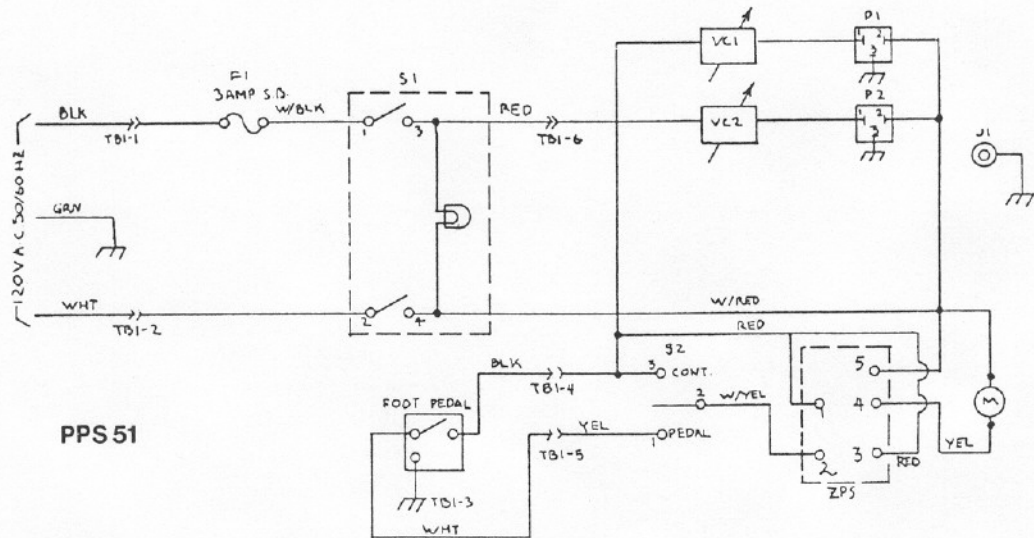
<u>Description</u>	<u>Part No.</u>
Switch, Main Power w/Indicator	1157-0027
Switch, Pump Control	1157-0030
Voltage Control 115VAC	1285-0014
Knob	1222-0006
Fuse Holder	1161-0002
Fuse 3 Amp Slo-Blo	1159-0001
Foot Pedal Assy.	6008-0075
Line Cord Assy.	1332-0076
Motor Pump Assy.	1336-0017
Zero Power Switch Assy. 115VAC (Model SX-301 only)	4008-0026

Models SX-300BE and SX-301BE

<u>Description</u>	<u>Part No.</u>
Switch, Main Power w/Indicator	1157-0028
Switch, Pump Control	1157-0030
Voltage Control 24VAC	1285-0030
Knob	1222-0006
Fuse Holder	1161-0008
Fuse 2 Amp Slo-Blo	1159-0219
Transformer	1192-0043
Capacitor .22mf/20v	1181-0024
Foot Pedal Assy.	6008-0072
Line Cord Assy.	1332-0072
Motor Pump Assy.	1336-0019
Relay, 24VAC	1194-0009
Zero Power Switch 220/240VAC (Model SX-301BE only)	4008-0025

All Models

<u>Description</u>	<u>Part No.</u>
Hot Cubby w/Cleaning Unit	6019-0011
Brush	1127-0012
Sponge	4021-0001
VisiFilter (std.)	1309-0020
*VisiFilter with Replaceable Filter Element	1309-0028
VisiFilter Replacement Element	1309-0027
*ComForm I	6016-0003
*Supplied with Models SX-301 and SX-301BE	



NOTES