

INTRODUCTION

How many times have you said to yourself, "I could do a much better job if I only 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 SX-300 system 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. All Model SX-300 Systems consist of a PPS-5 Power Source and an SX-200 Series Sodr-X-Tractor Handpiece.

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 aluminum case with its bake enamel finish houses the motor/pump assembly, motor starter, and pump filters. The Temperature Controls, Electrical Outlets, Vacuum and Pressure Quick Connect Fitting, Main Power Switch, Main Power Indicator, Motor Continuous Run Switch and Fuse Holders 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, Filter, 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 when going from vacuum to pressure/hot jet operations, and the tip cleaning assembly which includes a stainless steel brush, sponge and cap. The Hot Tool Holder slides into the bracket attached to the Power Source Case.

SPECIFICATIONS

Model SX-300 Self-Contained High Flow Rate Power Desoldering Systems

ALL SYSTEMS INCLUDE:

Sodr-X-Tractor Handpiece: One set of Tips, Cleaning Brushes, Air Line and Connector, Thermo Drive He Control, Sodr-X-Tractor Operation and Maintenance Instructions.

POWER SOURCE:

Adjustable Temperature Level Controls, Flow Vacuum and Pressure, Foot Switch, Continuous Run Switch, Line Cord, Overload Protection, Corrosion Resistant, Sliding Vane Rotary, Brushless Motor Pump and Hot Tool Holder/Cleaning Unit.

MECHANICAL PARAMETERS:
 WIDTH 8" 20.3cm
 HEIGHT 6 1/4" 15.9cm
 LENGTH 10 3/8" 26.4cm

Variable Air Pressure:
 0.05 psi to 20.0 psi .03 atm to 1.36 atm

Variable Vacuum Pressure:
 0.05 in.Hg to 20.0 in.Hg 0.0017 atm to 0.668 atm

Power AC-220 Watts Maximum

Soldering Iron with Clad Tip

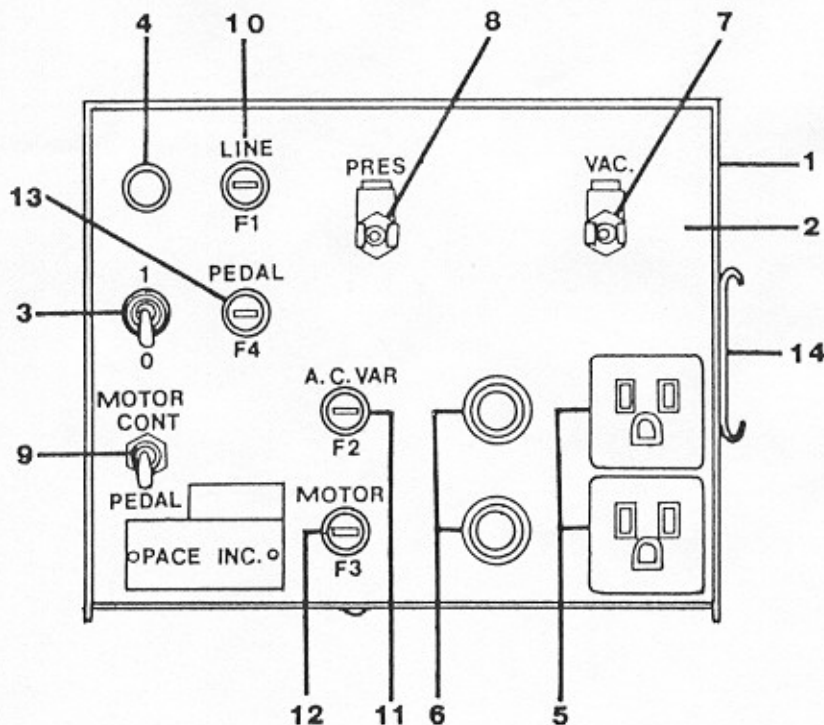
Zero Power Switching (ZPS). Optional for all models for desoldering C-MOS and MOS/FET Devices.

Zero Power Switching may be ordered factory installed.

POWER REQUIREMENTS

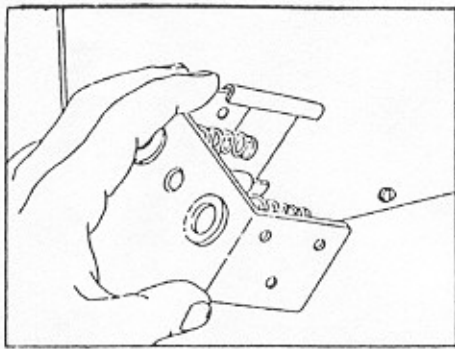
<u>Model</u>	<u>Part No.</u>	<u>Power</u>
SX-300	7018-0007	115VAC 50/60Hz
SX-300 w/ZPS	8007-0044	115VAC 50/60Hz
SX-300E	8007-0002	220/240VAC 50/60Hz
SX-300E w/ZPS	8007-0045	220/240VAC 50/60Hz
SX-300EJ	8007-0008	100VAC 50/60Hz
SX-300ES	8007-0031	220/240VAC 50/60Hz
SX-300ECH	8007-0033	220/240VAC 50/60Hz
SX-300ECH w/ZPS	8007-0041	220/240VAC 50/60Hz

THE POWER SOURCE

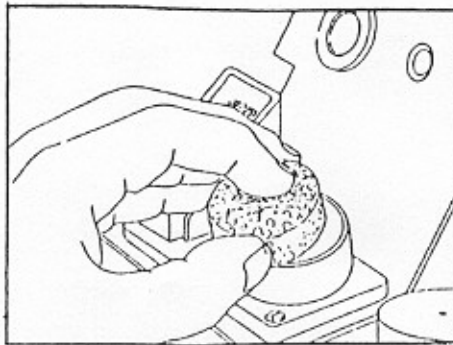


1. ALUMINUM HOUSING
2. FRONT PANEL
3. MAIN SWITCH
4. MAIN POWER INDICATOR
5. AC POWER RECEPTACLES
6. CONTROL DIAL KNOBS
7. VACUUM QUICK CONNECT FITTING
8. PRESSURE QUICK CONNECT FITTING
9. CONTINUOUS RUN SWITCH
10. *MAIN POWER FUSE
11. *AC VARIABLE POWER FUSE
12. *MOTOR POWER FUSE
13. *TRANSFORMER OUTPUT FUSE (Model ECH only)
14. HOT TOOL HOLDER BRACKET

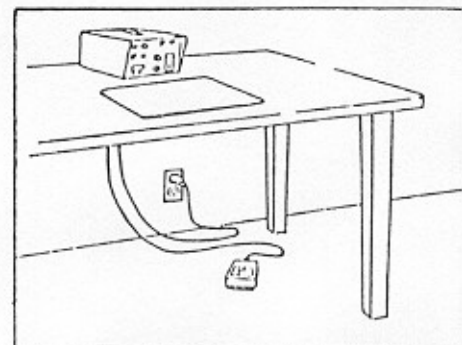
* See Replacement Parts List fuses for your Model SX-300 System.



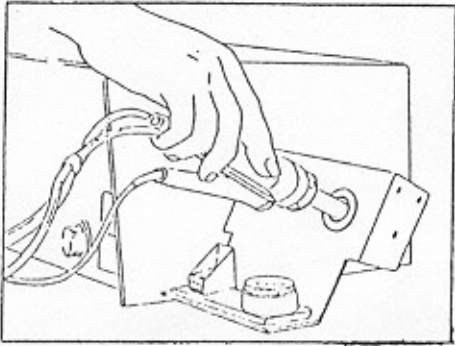
1. Attach Hot Tool Holder to bracket.



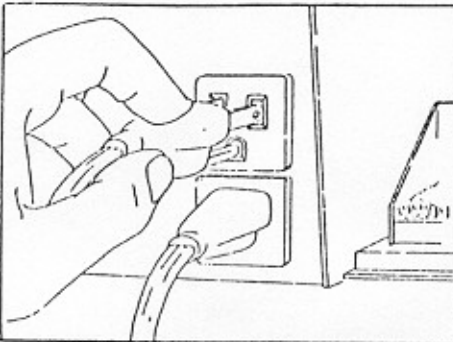
2. Remove cover and soak sponge in warm water. Replace in container.



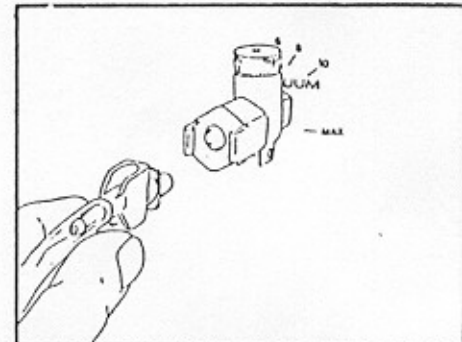
3. Position Foot Switch for operator convenience.



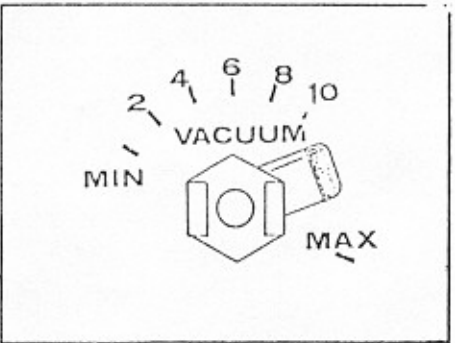
4. Place Extractor and Soldering Iron in Hot Tool Holder. Assemble clips to attach vacuum hose to power cord.



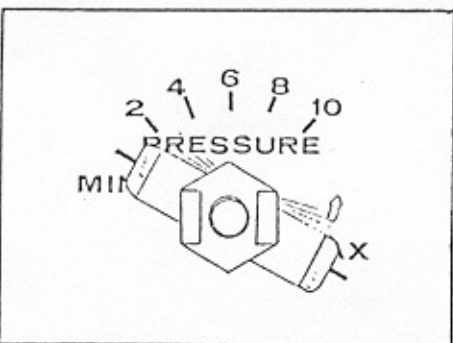
5. Connect Extractor plug to upper AC Power receptacle, Soldering Iron to lower receptacle.



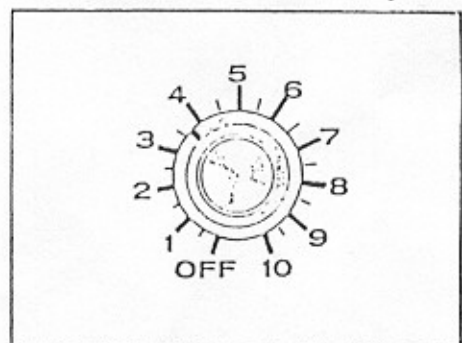
6. Attach Extractor hose to appropriate fitting vacuum for solder removal pressure for pressure or hot air jet.



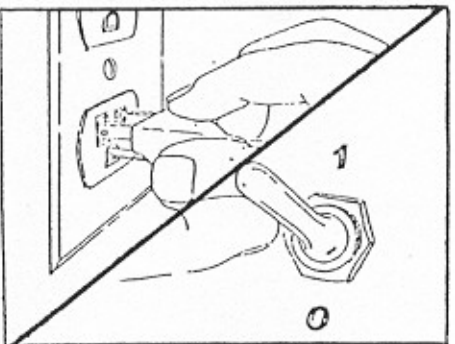
7. Adjust vacuum flow control valve to maximum for solder removal.



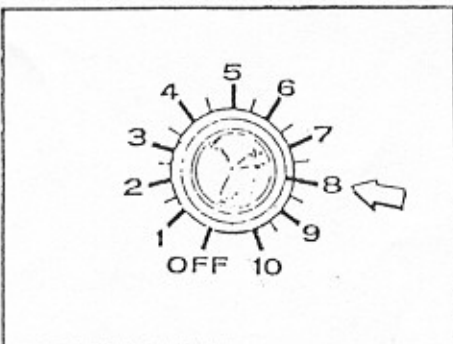
8. Adjust pressure flow control valve to maximum for air pressure, minimum for hot air jet.



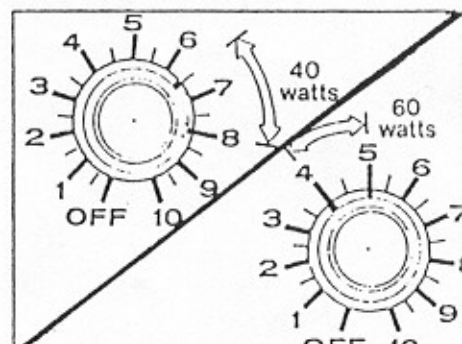
9. Adjust Soldering Iron power to maximum for normal soldering.



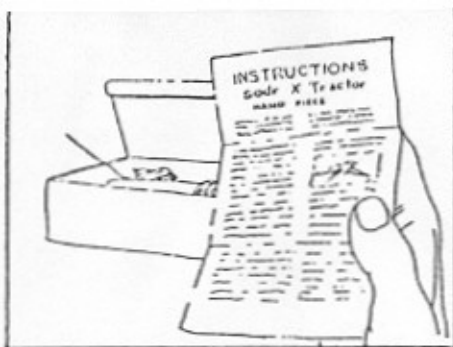
10. Plug in Line Power Cord. Turn main power switch ON.



11. Adjust extractor power to 8. Allow 15 minutes for 60 Watt heater.

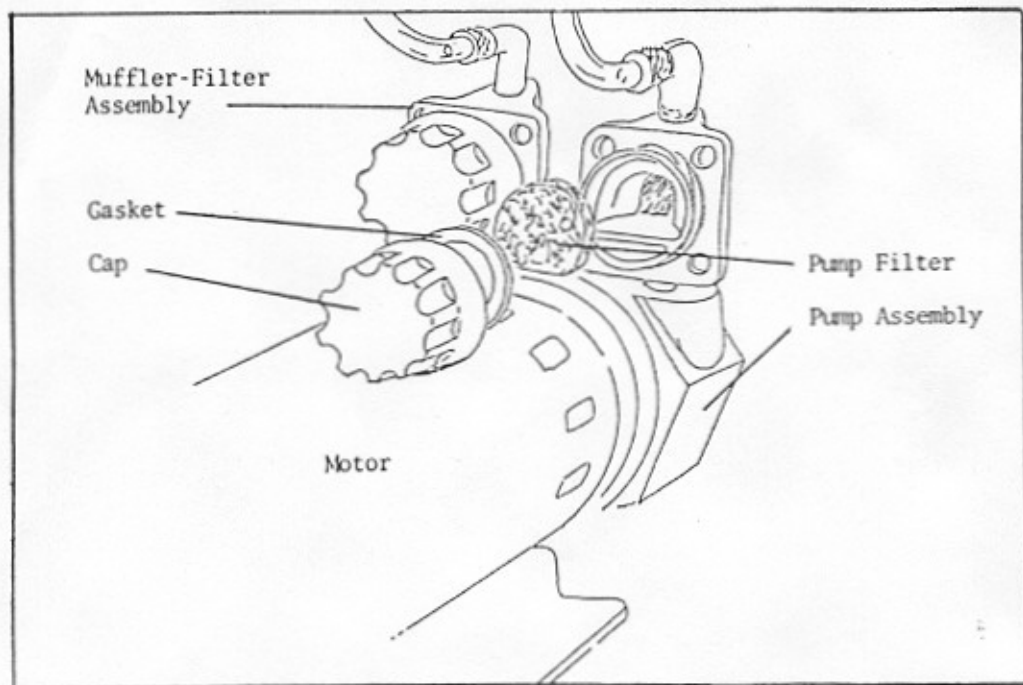
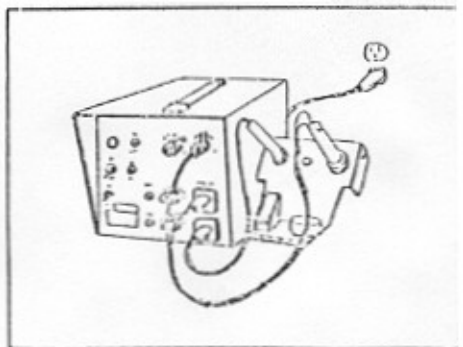


12. Adjust operating temperature for extractor. 6.5-8 for 40 Watt heater. 5-6 for 60 Watt heater.



13. Extractor operating and maintenance instructions are included in the box with your Extractor Handpiece.

14. Pictorial diagram of SX-300 System Set-Up, for operation.



POWER SOURCE MAINTENANCE

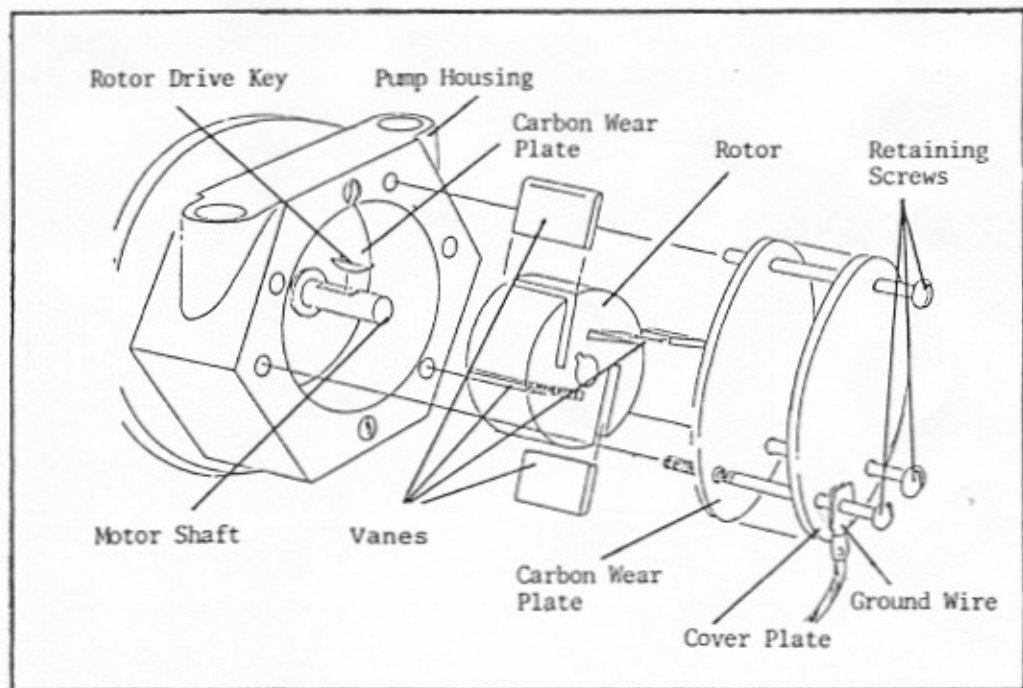
WARNING - Disconnect Power from Source of Supply before Servicing.

1. FILTER-MUFFLER
Check filters weekly, clean or replace monthly.
2. PUMP
The carbon vane pump should never be lubricated.

A gradual loss of vacuum may be caused by flux or coating residue within the pump. To clean pump, open rear cover.

Loosen 3 screws and remove screws, cover plate and carbon wear plate as one assembly. Remove vanes and flush pump housing and rotor with flux solvent.

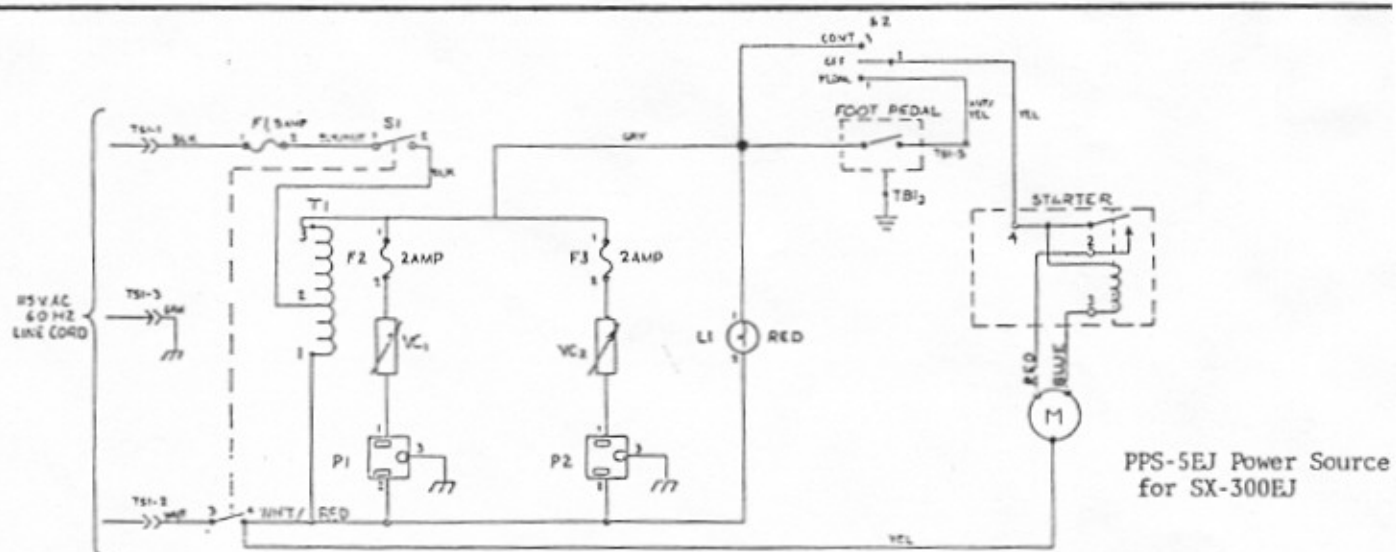
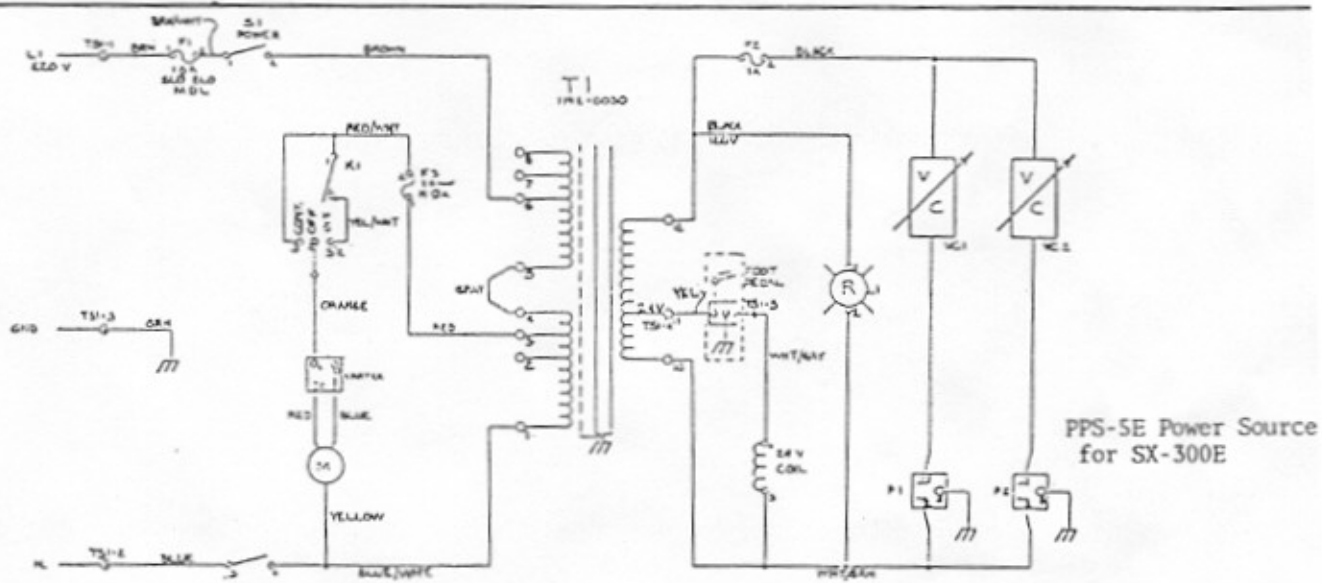
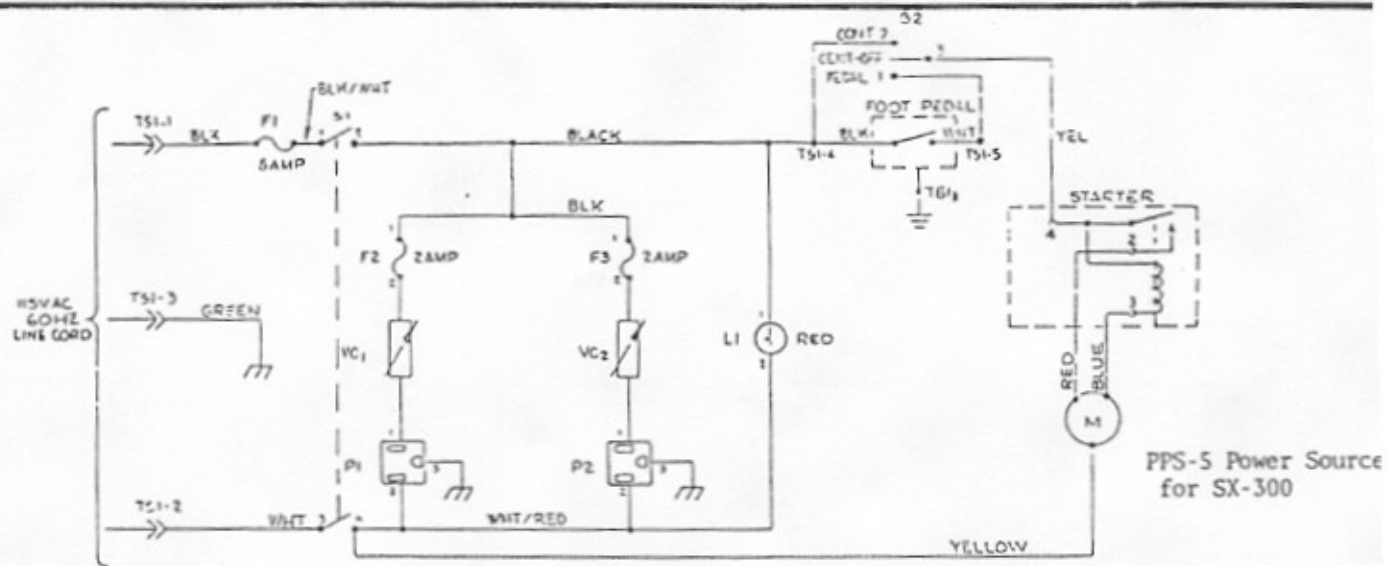
Wash vanes in same solvent. Reassemble vanes and cover/wear plate as one assembly. Refer to Spare Parts List for Pump Overhaul Kit.

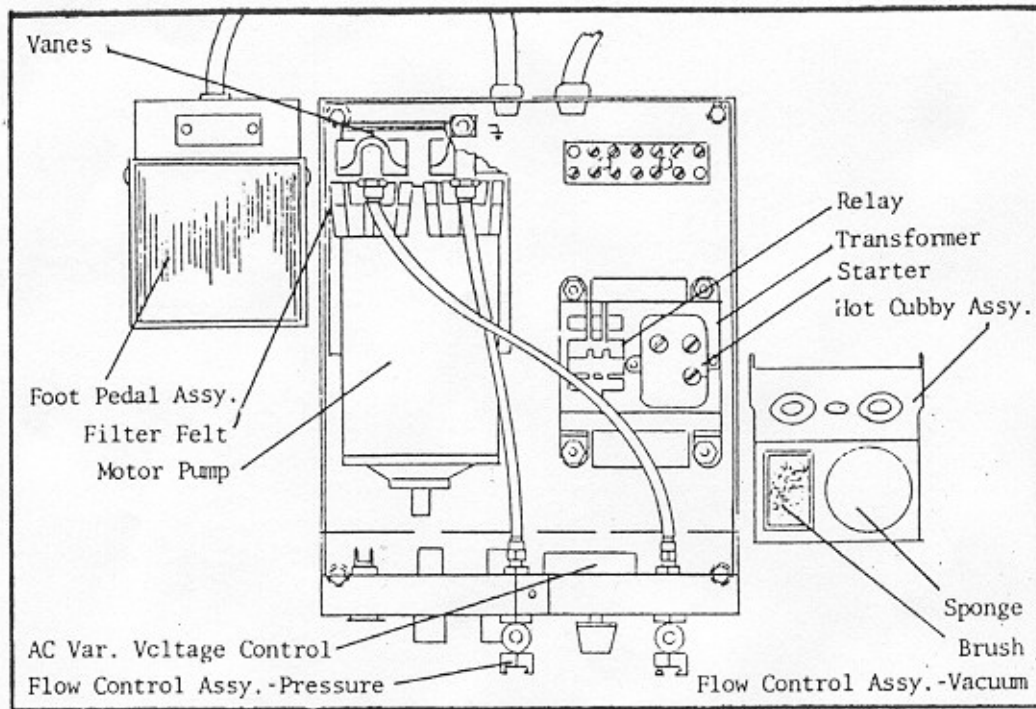


ELECTRICAL PROTECTION

All the electrical elements of the SX-300 power source are fully protected.

Refer to the Specification sheet for proper replacement fuses for your Model SX-300 power source.





Parts Common to Models SX-300, SX-300 w/ZPS, SX-300E, SX-300E w/ZPS, SX-300EJ, SX-300ECH w/ZPS and SX-300ES Power Sources.

Description	Part No.
AC Var. Voltage Control (200W)	1285-0014
Flow Control Assy.-Pressure	1285-0003
Flow Control Assy.-Vacuum	1285-0004
Filter Felt	1309-0015
Starter All SX-300 Models without ZPS	1194-0003
Starter All SX-300 Model with ZPS	1194-0011
Motor Pump	1336-0013
Pump Overhaul Kit	6993-0033
Hot Cubby Assy.,w/cleaning unit	6019-0011
Brush	1127-0012
Sponge	4021-0001
Vanes	1338-0001
Soldering Iron w/Tip	1102-0004

Replacement Parts for Models SX-300 and SX-300 w/ZPS

Description	Part No.
Fuse, 5 Amp S.B. F-1	1159-0002
Fuse, 2 Amp F-2	1159-0004
Foot Pedal Assy.	6008-0017
Schematic Diagram SX-300 w/ZPS	5000-0093
Printed Circuit Assemblies for ZPS (2 per unit)	4008-0021

SX-300E & SX-300E w/ZPS

Description	Part No.
Fuse, 1 Amp Fast Acting F-2	1159-0011
Fuse, 1.6 Amp 250V SloBlo F-1 (Ceramic MDL)	1159-0012
Fuse, 2 Amp SloBlo F-3	1159-0022
Transformer	1192-0030

Relay SX-300E wo/ZPS	1194-0009
Printed Circuit Assemblies for ZPS (2 per unit)	4008-0022
Schematic Diagram SX-300E w/ZPS	5000-0094

SX-300EJ

Description	Part No.
Fuse, 2 Amp Fast Acting F-2	1159-0004
Fuse, 5 Amp S.B. F-1	1159-0002
Transformer	1192-0014

SX-300ECH & 300ECH w/ZPS

Description	Part No.
Fuse .160 Amp Fast Acting F4	1159-0102
Fuse 1 Amp Fast Acting F2	1159-0110
Fuse 2.5 Amp S.B. F3	1159-0220
Fuse 1.6 Amp S.B. F1	1159-0218
Transformer	1192-0030
Relay SX-300ECH wo/ZPS	1194-0009
Foot Pedal	6008-0069
Schematic Diagram SX-300ECH w/ZPS	5000-0114
Printed Circuit Assemblies for ZPS (2 per unit)	4008-0022

SX-300ES

Description	Part No.
Fuse, 1 amp Fast Acting F2	1159-0110
Fuse, 1.6 amp S.B. F1	1159-0218
Fuse, 2.5 amp S.B. F3	1159-0220
Transformer	1192-0030
Relay	1194-0009

Note: Please include the serial number of your power source when ordering replacement parts for Zero Power Switch Assemblies.