

# CENTRAL SLURRY SYSTEM

## Models 911 II

Installation and Operating Instructions



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# INSTALLATION AND OPERATING INSTRUCTIONS

## 911 II CENTRAL SLURRY SYSTEM

### INSTALLATION

1. Locate the slurry system as close to the surfacing machines as possible to insure proper drainage back into the main slurry tank. The slurry system should be easily accessible. The 911 II Mini Central Slurry System can supply up to 4 spindles.
2. Install a slurry feed line to supply the surfacers. A sample feed line is shown in Figure 1. The feed line should be made using 3/4" PVC or other suitable material. Use the 1" clear tubing supplied to make the connection between the pump and the feed line. The connection to the feed line should be made with a quick-disconnect fitting to facilitate cleaning the system.
3. The 911 II is supplied with a ball valve that may be installed in the vinyl feed line (supplied) between the 911 II and the first polisher. This is used to slow the return flow of polish to the 911 II when the pump is stopped. Close the ball valve before turning the pump off. After the pump has stopped open the valve slowly.
4. Install a slurry drain line to route slurry back to the slurry tank. A sample drain line is shown in Figure 1. The drain line should be made of 2-1/2" PVC or other suitable material. The drain line must be positioned over the filter screen on the slurry tank.
5. Valves may be installed in the slurry manifold to shut off the flow to the machine when not in use. Solenoids or manual valves may be used.
6. Charge the system with water to flush any debris out from the install.

**CAUTION: This equipment should be connected to an electrical outlet equipped with GFI (ground fault interrupt) to prevent possible electrical shock.**

### OPERATION

#### Charging the System - Glass

1. Fill the slurry tank with water. Turn on the pump and circulate the water through the feed lines. This will cause the level in the slurry tank to drop. Add water as needed to bring the level up to 2" to 3" from the top of the tank. Add emery or polish to the tank until the desired Baume is achieved. The correct operating level is 2" from the top of the tank. Do not allow the level to drop below 4" from the top of the tank.

#### Charging the system - Plastic

1. Fill the slurry tank with polish. Turn on the pump and circulate the polish through the feed lines. Add polish as needed to bring the level up to 2" from the top of the tank.
2. The level in the slurry tank should not be allowed to drop below 4" from the top of the tank as the slurry will start to whirlpool allowing air to get into the pump causing foaming. Care should be taken not to overfill the system also. If the level in the slurry tank is too high when the system is operating, the tank may overflow when the pump is shut off and the slurry drains back into the slurry tank.
3. Be sure the filter screen is in place. The screen catches all lens coating, pad pieces, broken lenses and foreign material and keeps it from entering the pump and being sent through the feed lines.
4. Caution should be taken not to let the pump run dry for any extended period of time.

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### **Cleaning the System**

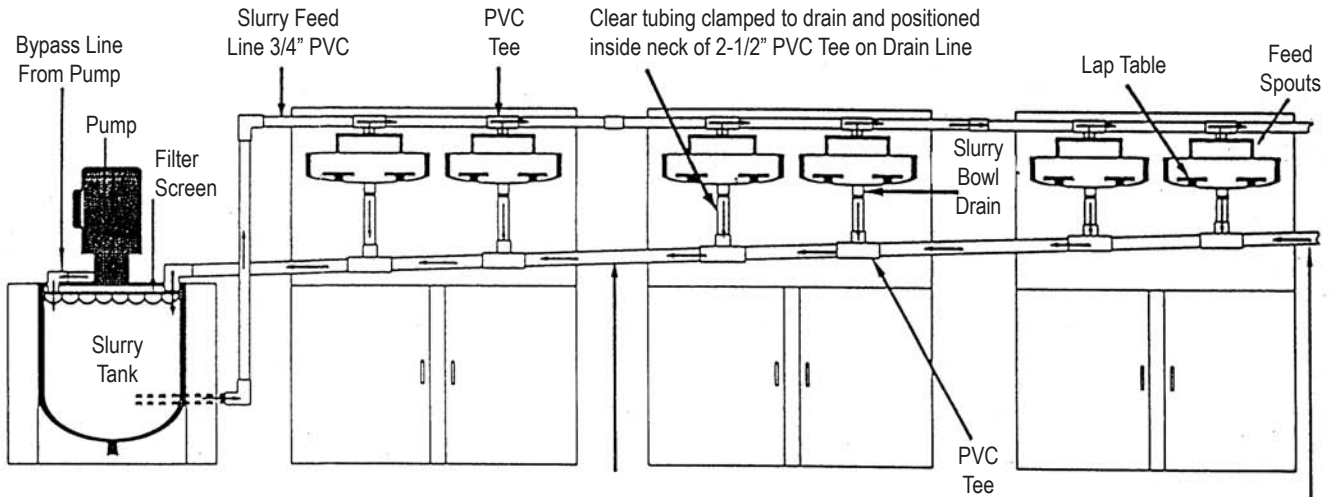
1. When the slurry requires changing, the whole system, including the plumbing, should be cleaned. Disconnect the output feed hose between the slurry system and the feed manifold at the manifold end. Pump the slurry into a five gallon pail.
2. Connect the feed line and fill the system with hot water or use Opti-Clean (part #610). Turn the pump on and circulate the water through all the machines. This will clean the feed and return lines as well as the slurry bowls.
3. Pump the dirty water into a pail. You are now ready to recharge the system.

The old slurry and dirty water from cleaning the system should be processed by the Pan Handler Waste Water Treatment System for disposal. If you do not have a Pan Handler and would like information on this system, please contact us or visit our website at [www.LookToPSI.com](http://www.LookToPSI.com).

If you have any problems or questions with the installation or operation of the Central Slurry System, please call us toll free at 800-237-8154 or 727-376-7900 and we will be happy to assist you.

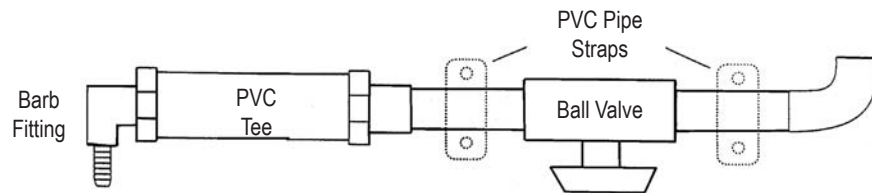
Figure 1 - Central Slurry System Installation

Feed Spouts: From 3/4" PVC Tee, use 3/4" to 1/4" reducer bushing, 1/4" close nipple, 1/4" tee and 1/4" copper tubing for spouts.

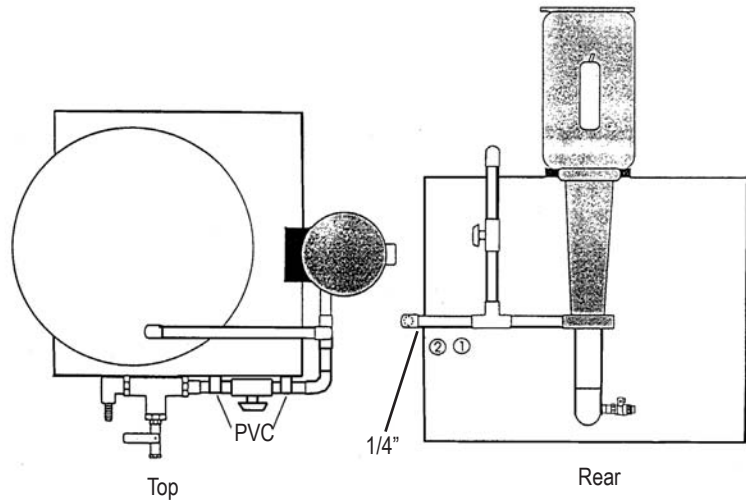


NOTE: a small pet-cock valve or solenoid should be installed in the line for each bowl to shut off the flow when the polishing cycle is finished.

Installation shown is typical for all polishing machines.



1. Connect the valve assembly to the extension. Make sure that it is level.
2. Screw PVC straps in place. Use caution when tightening the straps. There will be a small gap between the strap and the sheet metal due to the diameter of the valve. Do not over tighten.



### Pump Disassembly

1. Remove plug from drip cover on top of the motor.
2. Remove screw 1 and cover 2.
3. Insert screwdriver into motor end shaft slot and unscrew impeller 4; standard RH thread.
4. Remove screws 6, 7 and body assembly 5.

### Pump Inspection

1. Check all internal and external threads for damage or stripped thread.
2. Replace all gaskets and O-rings.
3. Check impeller for cracks, abrasions and distortion.
4. Check shafts for run out and chemical attack.

### Pump Reassembly

1. Secure body assembly 5 to motor 9 with screws 6,7.
2. Insert screwdriver into slot in the end of the motor shaft and thread impeller 4 onto motor shaft (RH thread).
3. Replace O-ring 3.
4. Secure cover 2 to body assembly 5 with screws 1.

### Replacement Parts (1/3 HP)

Motor/Pump Assembly 911 II.....	911MO3
4 Impeller Assembly .....	2658-7
5 Body Assembly.....	2658-3
3 O-ring .....	2658-2
2 Inlet Cover.....	2658-4
1 Cover Screws.....	2658-5

