PART NUMBER 44440, REV. C (08/23)

power soak®

OPERATOR MANUAL

IMPORTANT INFORMATION, KEEP FOR OPERATOR

888-994-7636, fax 888-864-7636
unifiedbrands.net

THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE. READ, UNDERSTAND AND FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL.

NOTIFY CARRIER OF DAMAGE AT ONCE It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Power Soak suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.

Manufacture Service/Questions 888-994-7636.

This manual provides information for:

POWER PREP ADVANCED

INTRODUCTION AND CONVENTIONS

PRODUCT INTRODUCTION

Thank you for purchasing a Power Prep Advanced fruit and vegetable washing system. Your new Power Prep Advanced washing system will provide years of dependable, efficient and trouble-free service.

As a Power Prep Advanced owner, you will benefit in numerous ways:

- Your produce washing operation will be more efficient
- Your produce will more free of soil
- Your produce will harbor fewer microbes
- Your water usage will decrease
- Your produce washing hours will decrease and employee morale will increase

Every system is manufactured to last, with only high-quality, heavy-duty, 14 gauge stainless steel used in its construction. All electrical components used in a Power Prep Advanced system are of the highest quality. The faucet and drain are designed for quick filling and emptying of the system's sink.

At Power Soak, we take pride in manufacturing the Power Prep Advanced and are committed to standing behind our customers and products 100%. Should you ever need assistance, please contact us directly at the factory by dialing 888-994-7636 or fax: 601-371-9732.

PRODUCE WASHING CHEMICALS AND ANTIMICROBIALS

The produce wash product you select is best if it:

- Requires a minimal wash time, ideally, two minutes or less
- Requires no rinsing
- Is non-corrosive when properly diluted
- Is dispensed through fixed dilution rate equipment
- Is FDA and/or EPA approved for both whole and cut fruit and vegetables

Consult your chemical provider for a suitable product.

EXPLANATION OF WARNING MESSAGES

Read, understand and follow all DANGER, WARNING, and CAUTION messages located in this guide and on the equipment.

Danger

Personal injury and property damage hazard.

Hazard from sharp objects.

May result in serious injury or death.

May cause extensive equipment damage.

Warning

Property damage hazard.

May result in property or equipment damage.

Children must not be allowed to play in the sinks, on countertops or with the controls of the Power Prep Advanced. Cleaning or use of this machine must only done by personnel trained and qualified by the facility manager. This machine may not be suitable for use by persons with reduced physical, sensory or mental capabilities or by those who lack experience, knowledge, and understanding hazards involved. There is a potential of drowning for any person whose head becomes submerged in the fluid contained in the sinks along with other Hazards identified in this manual.

Chemical Hazard

May result in serious injury or death. Instructions, labels and Material Safety Data Sheets (MSDSs) should be supplied with all produce treating chemicals. The manufacturers, importers and distributors of your treating chemicals are responsible for providing this information.

Power Soak is not a manufacturer, importer, or distributor of antimicrobials. Power Soak, Inc. will not make specific brand recommendations for these chemicals.

PRE-UNCRATING CHECKLIST

WARNING: DO NOT CONNECT THE MACHINE USING A POWER CORD AND PLUG OR AN EXTENSION CORD OF ANY KIND.

WARNING: KITCHENS ARE WET ENVIRONMENTS WHICH REQUIRE ALL ELECTRICAL CONNECTIONS TO BE "LIQUID TIGHT".

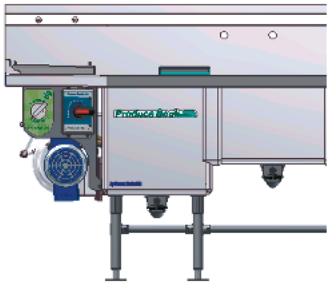
ELECTRICAL INSTALLATION MUST CONFORM TO ALL APPLICABLE LOCAL WIRING CODES. ALL ELECTRICAL CONNECTIONS MUST BE "LIQUID TIGHT" AND READILY ACCESSIBLE FOR INSPECTION AFTER INSTALLATION WITHOUT MOVING THE POWER PREP ADVANCED MACHINE.

VERIFYING SYSTEM REQUIREMENTS

Prior to completely removing the Power Prep Advanced unit from the crate, it is necessary to verify certain requirements. Remove only the lid of the crate at this time.

Verifying System Direction

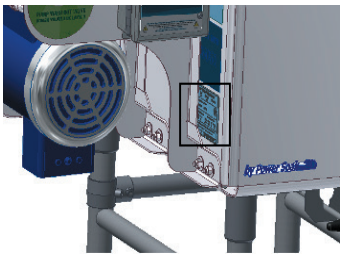
Left to Right Unit



Right to Left Unit

The Power Prep Advanced can be built as a "Left to Right" or as a "Right to Left" configuration with a variety of options. Look inside the crate and verify that the configuration of the machine matches the specifications of the order description.

Verifying the Electrical Requirements



The electrical requirements for the machine are on the machine identification tag located on the side of the wash tank, next to the motor. The electrical service in the facility where the machine is to be installed must be rated for the capacity shown on the identification tag. This machine will require a permanently mounted disconnect that is in a "liquid tight" enclosure. Do not use an in-line plug for disconnecting the machine from the electrical source. Contact a licensed and certified electrician for the enclosure installation using the appropriate breaker (overcurrent protection) and wire size for the machine's electrical service.

WARNING: FAILURE TO SHUT OFF THE ELECTRICAL AND WATER SUPPLY WILL RESULT IN PERSONAL INJURY, INCLUDING SERIOUS INJURY OR DEATH, AND EXTENSIVE EQUIPMENT DAMAGE.

IMPORTANT: BE SURE TO LEAVE ENOUGH OF THE EXISTING PIPING FOR THE INSTALLATION OF NEW SHUTOFF VALVES. SEE "PRE-PLUMBING" SECTION FOR REFERENCE.

REMOVAL OF EXISTING UNIT

If the new Power Prep Advanced is not replacing an existing sink, skip this section. If the removal of an existing sink is necessary, continue with this section.

Existing Supply Lines

The water and electrical source must be shut off before disconnecting or cutting the water or electric lines.

Disconnect any electrical cord that is connected to the existing sink. Disconnect the cold and hot water lines at the fittings on the existing sink.

Existing Sink Removal

Detach any fasteners holding the existing sink in place and remove the existing sink along with any shelves that may interfere with the installation of the Power Prep Advanced. Discard all unwanted materials in an appropriate container or disposal area.

Wall Preparation

Clean the wall(s) where the new Power Prep Advanced will be installed. Fill all existing holes with an appropriate filler material. Be sure that any outlet that will be covered by the sink has been disconnected and a water tight cover has been installed over the opening.

IMPORTANT: IT IS RECOMMENDED THAT NEW ½" OR LARGER MINIMUM I.D. BALL-TYPE SHUT OFF VALVES BE INSTALLED. USE A MINIMUM NUMBER OF ELBOWS IN THE COLD WATER SUPPLY IN ORDER TO PROVIDE THE LEAST AMOUNT OF RESTRICTION IN THE LINE.

IMPORTANT: WASTE PLUMBING MUST CONFORM TO LOCAL BUILDING CODES.

PRE-PLUMBING

Supply and Waste Lines

The supply and waste lines must meet the following requirements:

- Hot and cold water supply must be ½" diameter or larger and able to sustain 50 PSI minimum pressure under full flow.
- Centerlines of the hot and cold water supply must be 10" or less above the floor to access the shutoff valves when the machine is installed.
- Waste drain must be 1-1/2" minimum diameter.
- Centerline of the waste drain must be 11" or less above the floor to allow the sink to drain properly.

Install new shutoff valves on the hot and cold water supply lines.

Grease Trap

It may be necessary to relocate and/or replace the existing grease trap. Be sure that the grease trap meets or exceeds the local plumbing codes.

POST-UNCRATING INSTRUCTIONS

UNCRATING

Remove From Crate

Remove the Power Prep Advanced from the shipping crate. Sharp staples and nails are used to crate the machine, and care must be taken in handling boards and other packing materials to keep from creating a puncture wound or other injury to people or damage to the equipment. Discard the crating materials in an appropriate disposal area or container.

Inspect the unit and packages shipped in the sink to be certain there was no damage created by the shipping company. If there are signs of shipping damage, contact the shipping company before proceeding.

Remove the packages from the wash sink and locate the box labeled "OPEN FIRST". This box will contain the fasteners and sealant that will be required for assembly of the Power Prep Advanced.

IMPORTANT: DO NOT BEND THE EDGE OF THE BACKSPLASH WHEN LAYING THE SINK ON ITS BACK.

COMPONENT INSTALLATION

Lay the sink on its back to allow access to the bottom of the sink. Be careful to not let the sink assembly drop to the floor with an impact that would damage the sink assembly or the floor. It may be necessary to place some cardboard or a tarp on the floor to protect the finish.

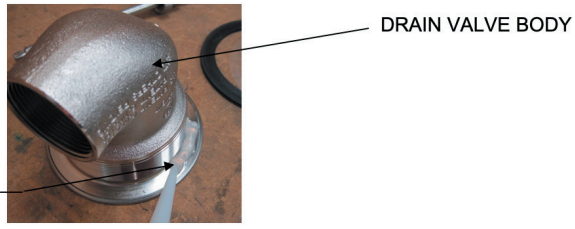
DRAIN WITH BUILT-IN VALVE IS INSTALLED IN THE BOTTOM OF THE TANK

The sink must be accessible from its top side and its bottom side in order to install the accessories. Be aware that the backsplash is unsupported at this time and can be bent out of shape by trying to support the entire weight of the sink on the edge of the backsplash.

IMPORTANT: THE RIM OF THE DRAIN MUST SEAT IN THE RECESS OF THE SINK OR IT WILL WORK LOOSE OVER TIME AND ALLOW WATER TO LEAK AROUND THE DRAIN.

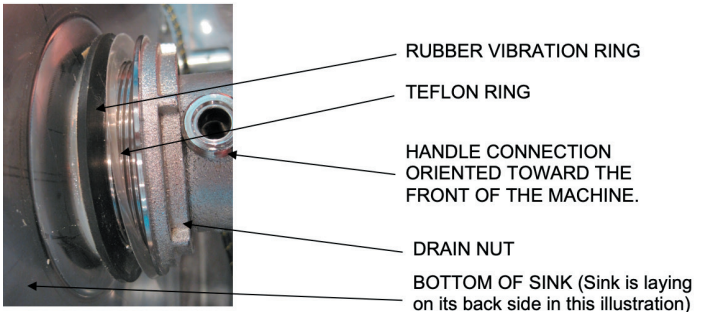
Install Sink Drains

There is one sink drain for every sink in the Power Prep Advanced that must be installed. The drains with valves built into their bodies are installed in the bottoms of the sinks and oriented with the drain valve handle toward the front of the sink. Each drain flange must be sealed to its mating surface in the sink using a sealant or plumbers putty. The rubber ring provided with the drain is not a gasket; it is a vibration dampener used between the nut and the bottom surface of the sink. It will not create a water tight seal. The thin Teflon ring is provided to reduce friction during tightening of the drain nut; it is installed between the nut and the rubber ring. See the illustration at below.

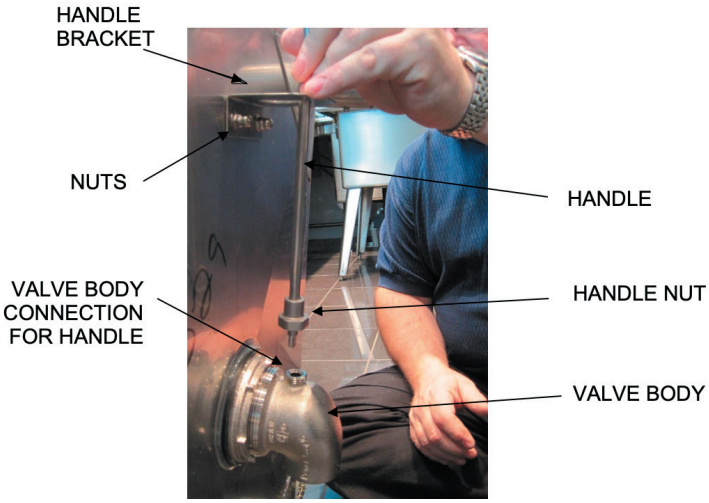


The drains with built-in valves will be oriented with the handle connection toward the front of the sink. From inside the sink, insert the drain through the drain hole and seat the flange against the sheet metal surface of the tank. Be sure that the sealant (or putty) compresses so the rim of the drain actually touches the sheet metal surface of the sink. If the drain does not touch the sink it will work loose and leak as the sealant compresses over time.

From the outside of the sink, place the rubber vibration ring over the threaded body of the drain followed by the Teflon ring and then the drain nut. Tighten the nut "hand tight" until it is time to install the handle.



Using two nuts, attach the drain handle bracket to the studs on the bottom of the tank. Insert the drain valve handle through the bracket and into the drain body. It may be necessary to rotate the handle a partial turn to align the flats on the end of the handle shaft with the flats on the valve so that the handle will fully insert into the valve. Secure the handle to the valve body by screwing the handle nut onto the valve body connection.



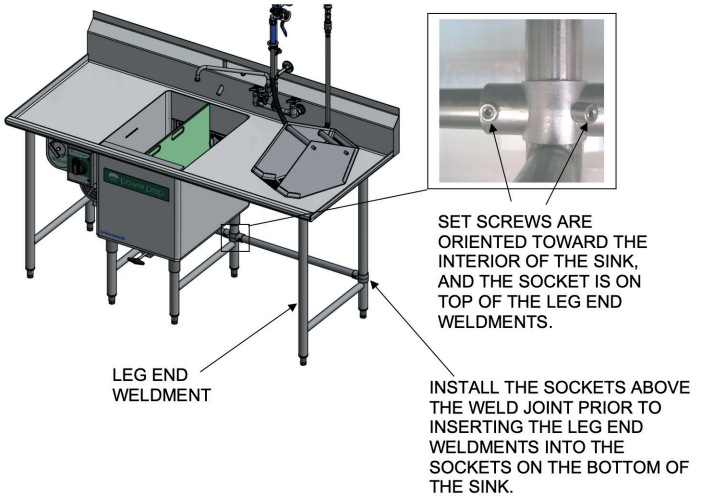
While holding the drain body to prevent it from rotating, tighten the flange nut with a wrench to firmly seat the nut against the rubber vibration ring and the vibration ring against the surface of the sink (approximately ¼ turn past "hand tight"). Wipe or trim the excess sealant from around the drain flange inside the sink. Allow the sealant to dry before filling the sink with water. See the instructions on the side of the sealant container for drying time.

Leg Installation

The Power Prep Advanced is usually shipped without the leg assembly attached to the machine. The sinks will need to be laid on their backs so the legs can be inserted into the sockets. Be sure the set screws that will be used to secure the legs are backed out enough to allow the leg sets to slide into the sockets. A 5/32" allen wrench will be used to loosen the set screws in all of the sockets. The leg sets must be installed before attempting to connect the JBZ joint.

Leg Set Assembly

Locate the leg end weldments and stretchers. The stretchers are the horizontal tubes that connect between the leg end weldments to provide lateral stability. The stretchers will only be installed between the back legs of the sinks.

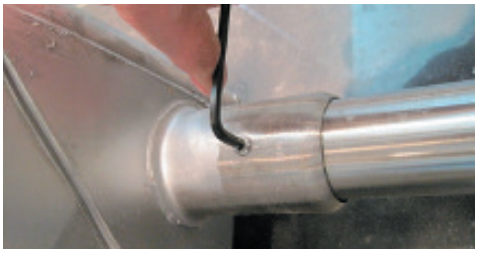


Orient the stretcher socket with the set screw facing toward the interior of the sink and then slide the stretcher sockets over the top of the leg end weldments so that the stretchers will be positioned above the welded joints of the leg end weldments when the legs are assembled onto the sinks. Install the stretchers between the leg end weldments by inserting them into the sockets before inserting the leg end weldments into the sockets on the bottoms of the sinks.

IMPORTANT: AFTER TIGHTENING THE SET SCREWS, FILL THE OPENINGS IN A CLEAN AND SANITARY MANNER WITH THE SILICONE SEALANT THAT IS SUPPLIED WITH THE MACHINE

Leg Set and Sink

Insert the leg end weldments into the sockets on the bottoms of the sinks. Be sure that all the legs are seated in the bottom of the sockets. Use an Allen wrench (5/32) to tighten the set screws in all of the sockets. After tightening the set screws, apply silicone sealant (supplied with the machine) to the set screw openings in order to seal the openings in a clean and sanitary manner.



Adjusting the Feet

Start with turning the feet all the way clockwise, then 2 turns counterclockwise. Use a tape measure and adjust the feet to the approximate height required. Turn the foot clockwise to shorten the height of the sink or counterclockwise to raise the height of the sink. Final adjustment of the feet will be done after the sink is in the installed location. Set the sink and leg assembly upright on its feet.

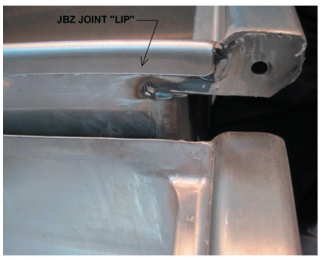
IMPORTANT: CHEMICAL DISPENSER AND CHEMICALS FOR THE POWER PREP ADVANCED MUST BE OBTAINED FROM A SOURCE OTHER THAN UNIFIED BRANDS.

JBZ Joint Installation

Some units are shipped in two sections. A mechanical JBZ joint is provided so that the two sections can be joined without welding. The section with the pump and motor will stand on its own and the other section will hook over the edge of the rinse sink. The sections will be bolted together before being placed against the wall.

Test Fit

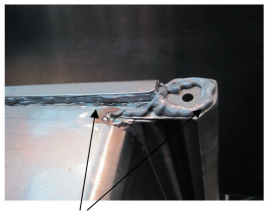
Dry fit the two sections of the sink together to be sure that the joint has not been damaged in shipping. The lip of the rinse sink will slide over the edge of the wash sink. Be careful not to pinch fingers in the joint as it is assembled.



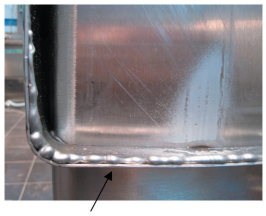
Check the alignment and fit of the two sections. It may be necessary to adjust the leveling feet to achieve a correct fit. Ensure that all the feet are adjusted to firmly contact the floor. Separate the two sections in order to apply sealant to the joint.

Mating and Sealing the Joint

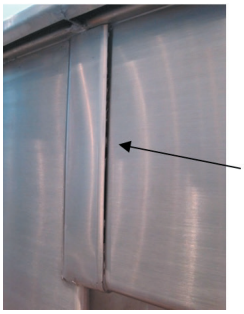
Apply the grey-colored NSF approved sealant (supplied with the unit) to the underside of the JBZ lip and all interior surfaces of the wash sink trim plate.



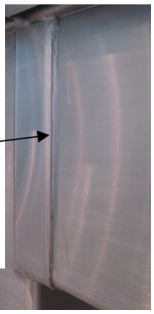
SEALANT APPLIED TO UNDERSIDE OF JBZ JOINT AND FACE OF THE END PLATE



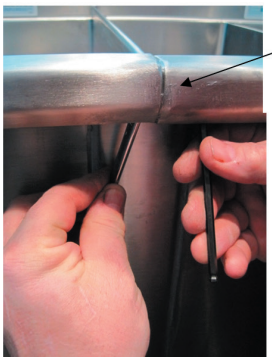
SEALANT APPLIED TO INTERIOR SURFACE OF TRIM PLATE



Reassemble the two sections. Apply a bead of grey-colored NSF approved sealant (supplied with the unit) in the gap between the rinse sink and the trim plate. Seal the entire joint to keep liquids from entering.



Bolt the channel rim and backsplash together using the nuts and bolts provided with the unit.



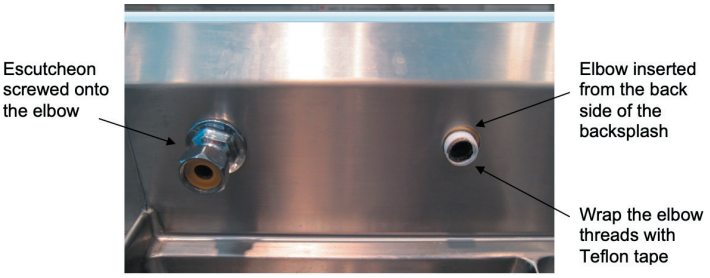
BOLT THE JOINT TOGETHER UNDER THE FRONT RIM AND BEHIND THE BACK SPLASH.

Seal the backsplash, channel rim, and all the gaps between the two sinks with the grey-colored NSF approved sealant that is supplied with the unit.

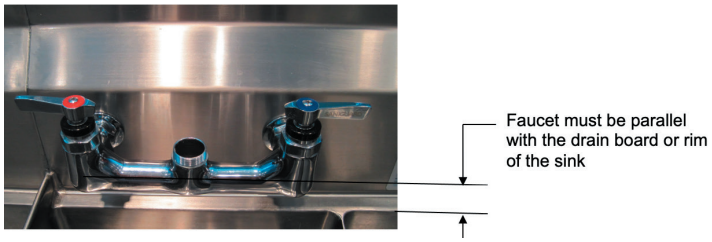
Apply the **grey colored** NSF approved sealant to all the sink joints and wipe the excess away, leaving a smooth sanitary joint.

Faucet Installation

Open the faucet package and locate the water connection elbows, faucet body and escutcheon assemblies. Apply Teflon tape to the threads of the elbows and insert them though the backsplash of the sink.



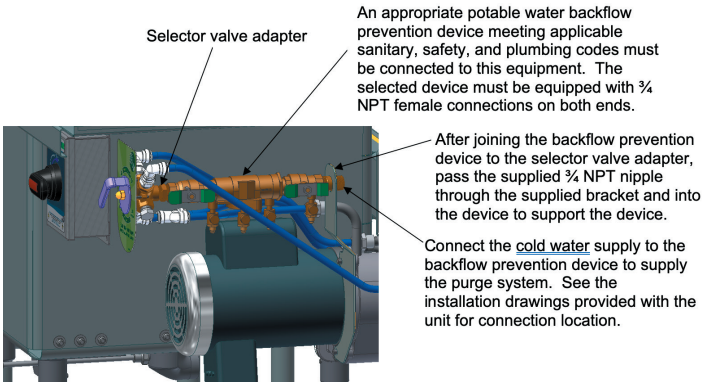
Loosely fit the escutcheons to the elbows and the faucet body. When the alignment of the body with the sink is confirmed, tighten the escutcheons onto the elbows and faucet body. From the back side of the backsplash, tighten the brass nuts on the elbows when the faucet body is parallel with the rim of the sink.



Complete the faucet assembly according to the manufacturer's instructions which are included with the faucet. Attach water lines to the faucet so that the lines extend below the sink. This will make the plumbing easier to complete when the machine is placed against the wall.

IMPORTANT: AN APPROPRIATE POTABLE WATER BACKFLOW PREVENTION DEVICE MEETING APPLICABLE SANITARY, SAFETY, AND PLUMBING CODES MUST BE CONNECTED TO THIS EQUIPMENT. THE SELECTED DEVICE MUST BE EQUIPPED WITH ¾ NPT FEMALE CONNECTIONS ON BOTH ENDS.

Locate the installation drawings provided with the Power Prep Advanced for plumbing location and fitting information.



COMPLETING THE INSTALLATION

IMPORTANT: THE POWER PREP ADVANCED SINK ASSEMBLY MUST BE LEVEL FROM SIDE TO SIDE AND FRONT TO REAR WITH ALL THE FEET MAKING FIRM CONTACT WITH THE FLOOR.

FINAL INSTALLATION STEPS

Machine Placement

Position the Power Prep Advanced so that the back splash rests against the wall and is placed according to the floor plan or customer's selected location. Examine the drain and water supply lines to determine that the plumbing can be completed when the Power Prep Advanced is in the final location. Verify that the plumbing from the faucet can be reached with the sink against the wall.

Level and Attach to the Wall

Using a level, adjust the feet on the Power Prep Advanced until the front rim and the rear rim of the sink are level. Check the level of the front rim and rear rim at the wash sink and not at the drain boards. The sink must also be level front to back.

Examine the installation to see that the wall and wall-side of the backsplash are clean and free of dust and oils. Seal the top and sides of the backsplash to the wall using the clear NSF approved sealant provided with the Power Prep Advanced. Wipe off all excess sealant leaving a smooth, clean and sanitary bead of sealant on all the edges.

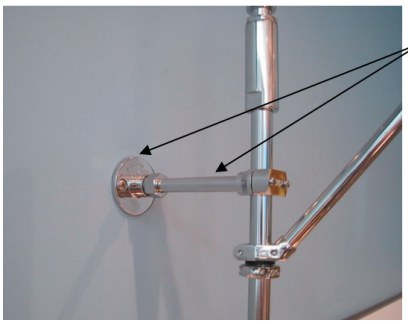
Backsplash Extension Installation (if required)

Be certain the upper face of the backsplash is clean and free of dust and oils. Position the backsplash extensions on the wall so that the offset lip is overlapping the top edge of the backsplash and the edges align with the JBZ joint in the sink and the outer edges of the backsplash. Mark the hole locations for both extension pieces, remove the extensions and insert the wall anchors into the wall. If a plywood backing is used behind the wall covering, the anchors will not be needed. Put a small bead of the clear NSF approved silicone sealant around the edge of the face of the extension that will seal to the wall and install the extension pieces. Use a small bead of the silicone under the face of the screws as they are installed in order to seal around the screws. Wipe off all excess sealant leaving a smooth, clean and sanitary bead of sealant on all the edges.

CAUTION: DO NOT ATTEMPT TO STRAIGHTEN THE RISER BY PUSHING ON THE RISER TUBE WHILE THE FAUCET IS TIGHENED AGAINST THE BACKSPLASH; IT WILL DAMAGE THE RISER TUBE. LOOSEN THE MOUNTING OF THE FAUCET BODY AND POSITION THE BODY SO THAT THE RISER IS IN A VERTICAL POSITION, THEN TIGHTEN THE FAUCET BODY AGAINST THE BACKSPLASH.

Rinse Riser and Anchor Installation

Follow the faucet manufacturer's directions on the assembly of the faucet and riser. Position the riser supports on the wall using the flange plate provided with the riser assembly. It may be necessary to cut the support rods to a shorter length in order to fit between the wall and the riser. Attach the riser support to the wall with screws.



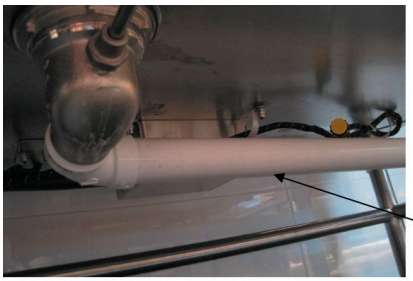
Cut the riser support rods to the proper length and attach flanges to the wall.

IMPORTANT: INSTALLER IS RESPONSIBLE FOR ALL PLUMBING TO CONFORM TO LOCAL BUILDING CODES WHICH MAY BE DIFFERENT FROM ILLUSTRATIONS SHOWN IN THIS MANUAL.

Plumbing Connections

Connect the water supply lines to the faucets. Connect all the drains to the waste drain connection.

DO NOT USE HOSES to make the pressure connections to the faucets. Maximum water inlet pressure is not to exceed 125 psi (8.6 Bar), minimum water pressure to be not less than 50 psi (1.2 Bar).



Complete the connection of all drains and water supply lines.

Electrical Connections

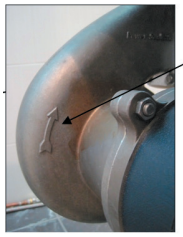
An equipotential bonding terminal is provided on the side of the wash sink near the serial tag and identified with the symbol shown at right. This terminal is used to make a connection for properly grounding the machine. This connection must be completed by a qualified electrical technician.

The final electrical connections between the Power Prep Advanced and the electrical supply must be made by a licensed electrician. The Power Prep Advanced has several options for motors. Review the information tag on the side of the wash tank or the pump motor for determining the specific requirements of the electrical system (See Verify the Electric Requirements section of this instruction booklet).

CAUTION: DO NOT RUN THE POWER PREP ADVANCED EMPTY FOR MORE THAN A FEW SECONDS. DRY OPERATION OF THE PUMP WILL OVERHEAT THE PUMP SEAL.

Checking the Motor Rotation

The motor must rotate in the correct direction in order for the Power Prep Advanced to function properly. An arrow indicating the direction of rotation is located on the pump housing. Running the motor in the wrong direction does not damage the motor or pump, but the pump will not circulate water in the wash sink correctly. After the connection to the electrical supply is properly made, turn the motor on momentarily and watch the cooling fan blades on the end of the motor to see that the motor is turning in the correct direction. The fan blades can be seen through the vent holes on the end of the motor. It is usually necessary to watch the fan as the motor coasts to a stop, because the fan is difficult to see when the motor is running at full speed.



Arrow indicating the direction of rotation is located on the pump housing

IMPORTANT: THE MOTOR MUST ROTATE IN THE CORRECT DIRECTION FOR THE MACHINE TO OPERATE PROPERLY.

Shelving

Reinstall any shelving that was removed for convenience of installation. If the shelving is damaged or corroded, it is recommended that the shelving be replaced. Remember that whatever equipment or supplies are located above the sink might accidentally fall into the food being processed by the Power Prep Advanced.

VALIDATING THE INSTALLATION

IMPORTANT: MOTOR ROTATION MUST BE CORRECT FOR THE MACHINE TO OPERATE CORRECTLY.

TESTING THE COMPONENTS

Check for Leaks

- Turn on the water supply and inspect all joints for leaks.
- Close the drain valve(s), fill the sink(s) with water, and inspect the drain fittings for leaks.
- Open the drain valve(s) and inspect the drain joins for leaks as the water is draining from the sink.

Check the Electrical Installation

- Verify that there are no loose wires or open holes in the electrical enclosure.
- Fill the wash sink with water and turn the control handle to ON. Have a qualified electrician verify that the amp draw on the electrical supply is within the specifications on the identification tag.
- Check motor rotation for the correct direction as indicated by the arrow on the pump housing.

Direction of rotation arrow

Check the Faucet Operation

- Open each faucet knob and verify that water flows from each hand control. Verify that hot and cold water are running from the correct hand control.
- With the water valves open, turn the center knob to see that it will shut off flow to the faucet and that the hand sprayer is still functional.
- Purge the water lines according to local code requirements.

EQUIPMENT DESCRIPTION

# of Bays	Model No.	Length	Voltage	Flow	FLOW CONFIGURATION				
					End Splash	Soiled Drain Board	Wash Tank	Clean Drain Board	End Splash
2	PPA2B-66L-115-1	66”	115/60/1	Left to Right	Hemmed	18"	18" x 19"	30"	Hemmed
	PPA2B-66L-208-1		208/60/1						
	PPA2B-66L-230-1		230/60/1						
	PPA2B-66R-115-1		115/60/1	Right to Left					
	PPA2B-66R-208-1		208/60/1						
	PPA2B-66R-230-1		230/60/1						
2	PPT2B-104L-115-1	104”	115/60/1	Left to Right	1-1/2"	18"	18" x 19"	48"	1-1/2"
	PPT2B-104L-208-1		208/60/1						
	PPT2B-104L-230-1		230/60/1						
	PPT2B-104R-115-1		115/60/1	Right to Left					
	PPT2B-104R-208-1		208/60/1						
	PPT2B-104R-230-1		230/60/1						

INSTALLATION

FAILURE TO INSTALL THE INTAKE SCREEN WILL ALLOW FOOD TO ENTER THE PUMP INTAKE AND CLOG THE FLUID FLOW TO THE PUMP. THIS WILL PREVENT THE MACHINE FROM OPERATING PROPERLY AND REQUIRE A SERVICE CALL TO REMOVE THE CLOG.

STARTING THE WASH PUMP WITHOUT THE JET CHANNEL IN PLACE WILL CAUSE WATER TO BE SPRAYED OUT OF THE WASH SINK WITH ENOUGH VELOCITY TO WET THE FLOOR AND THE OPERATOR.

THE INSTALLATION AND INITIAL OPERATIONAL CHECK OF THE POWER PREP ADVANCED UNIT MUST BE PERFORMED BY LICENSED AND CERTIFIED PLUMBERS AND ELECTRICIANS.

BE SURE TO FOLLOW ALL NATIONAL AND LOCAL ELECTRICAL CODES WHEN INSTALLING THE ELECTRICAL SUPPLY AND/OR A NEW CIRCUIT BREAKER. DO NOT CONNECT THE SYSTEM USING A POWER CORD AND PLUG OR AN EXTENSION CORD OF ANY KIND.

DO NOT CONNECT THE MACHINE USING A POWER CORD AND PLUG OR AN EXTENSION CORD OF ANY KIND. KITCHENS ARE WET ENVIRONMENTS WHICH REQUIRE ALL ELECTRICAL CONNECTIONS TO BE “LIQUID TIGHT.” ELECTRICAL INSTALLATION MUST CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL WIRING CODES. ALL ELECTRICAL CONNECTIONS MUST BE READILY ACCESSIBLE FOR INSPECTION AFTER INSTALLATION WITHOUT MOVING THE POWER PREP ADVANCED MACHINE OR ANY OF ITS ACCESSORIES.

INSTALLING COMPONENTS IN THE WASH SINK

Before installing the components in the wash sink, inspect the sink, the channel in the back wall and all of the components to be sure they are clean and free of debris.

Installing the Intake Screen:

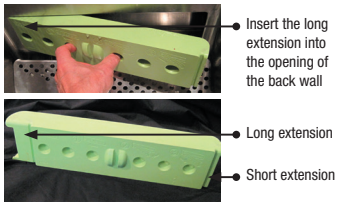
The illustration shows a “Left Hand” machine. A “Right Hand” machine will insert into the opening on the opposite side of the machine.

The intake screen is removable for cleaning. It must be installed before operation of the food washer in order to prevent food from entering the pump intake. Operating the machine without the intake screen will cause the pump to become clogged with food.

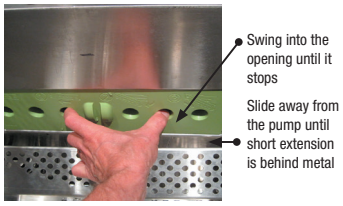
The intake screen has a tab that prevents the screen from fitting into the wash sink in the wrong orientation. The tab must be inserted into the intake opening in order to place the screen into its operating position.

1. Rotate the screen into position against the back wall while resting on the bottom of the sink.

Installing the Jet Channel:



The illustration shows a “Left Hand” machine. A “Right Hand” machine will insert into the other end of the opening.

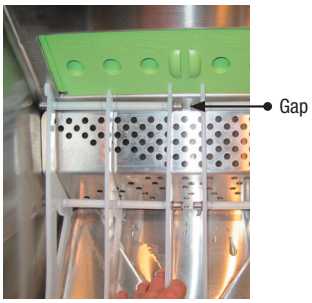


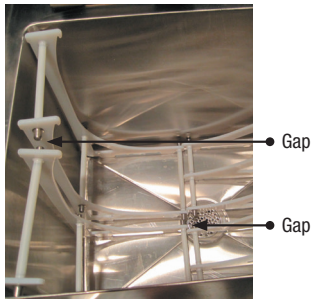
Reverse the installation steps to remove the jet channel. Instructions for removing the jet channel are imprinted on its face.

The jet channel must be installed in the discharge manifold before starting the wash pump. Insert the end with the long extension into the pump end of the discharge manifold. Swing the jet channel into the opening until it stops, then slide the jet channel so that the short extension is covered by the sheet metal of the back wall.

1. Insert the long extension into the opening of the back wall.
2. Swing the jet channel into the opening until it stops.
3. Slide the jet channel away from the pump until the short extension is tucked behind the metal.

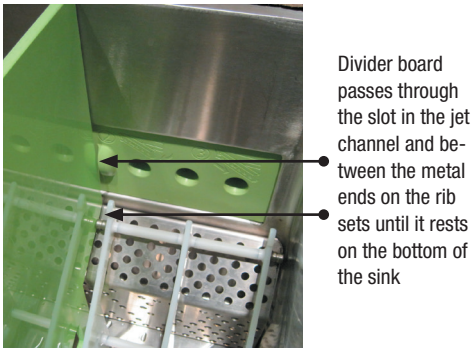
Installing the Rib Sets:





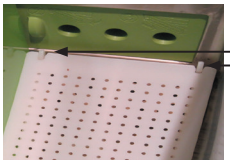
1. Begin by placing a rear rib set against one of the rear corners of the sink. Place the other rear rib set against the other rear corner of the sink leaving a finger-size gap between them.
2. Place the front rib sets against the front wall of the sink. Leave a finger-size gap between the rib sets in order to insert the divider board between the rib sets.

Placing the Divider Board:

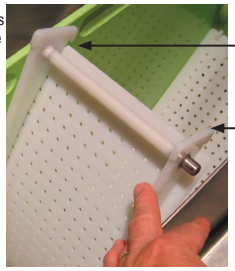


1. Insert the divider board into the gap between the front and rear pairs of rib sets. The divider board will also slide through the slot in the center of the jet channel. Make sure the divider board slides all the way down to touch the bottom of the sink. It may be necessary to reach into the sink and separate the rib sets as the divider board is lowered into position.

Placing the Flow Guides:



Slide the notches of the flow guide under the hooks on the rear rib set



Slide the flow guide under the hooks on the front rib set and then place the rib set back against the wall of the sink

The white perforated sheets of plastic are the flow guides that direct the water flow in a circular motion around the interior of the sink. The circular motion of the water moves the food to clean the surface of the food pieces.

1. Lay the flow guide on the rib set, and slide it under the hooked ends of the corner ribs just below the jet channel. Swap ends and invert the flow guides each time to equalize the wear.
2. Tilt the front rib set forward and slide the flow guide under the hooks of the front rib set and then place the front rib set back into position making sure that the flow guide stays under the hooks of the rib set.

Installing the Wave Guide:

Slide the back surface of the wave guide between the front rib sets and the front wall of the sink. It will rest on top of the front rib set.

The last step of the sink component installation is to place the wave guide on top of the front rib set. This piece is used to prevent the food from falling down between the flow guide and the front wall of the sink.

1. Slide the back surface between the front wall of the sink and the front rib sets.
2. Make sure the flow guide tucks inside of the flanges on the end of the wave guide. The wave guide will rest on top of the front rib set.

ELECTRICAL REQUIREMENTS

Please refer to the detailed installation instructions that were sent with the Power Prep Advanced unit.

The electrical requirements of the Power Prep Advanced unit are on the serial number label located on the end of the wash sink near the front, adjacent to the control panel enclosure. All Power Prep Advanced systems have a single point electrical connection, and a dedicated circuit is required.

The Power Prep Advanced is completely pre-wired and tested at the factory. A permanent connection (not a cord and plug) from an appropriate power source is required.

The installer is to provide a NEMA 3X disconnect that must be incorporated in the fixed wiring. Properly sized watertight conduit, fittings and parts are required as well as the appropriate gauge wire. If the Power Prep Advanced unit is a "left-to-right" unit, the disconnect enclosure should be located at the left end of the unit. The opposite would be applied for a "right-to-left" unit. Ideally, the disconnect should be located on the wall directly behind the pump motor and control panel provided this location is easily accessible by the operator and does not interfere with the faucet.

A wiring diagram is located in the control panel enclosure. Specific part numbers and parts information can be obtained from the factory by calling 888-994-7636.

PLUMBING REQUIREMENTS

The Power Prep Advanced unit will require the following plumbing connections:

- Hot and cold water supply lines: 1/2" (12 mm) minimum inside diameter
- Minimum 50 PSI cold water supply pressure
- One waste water connection: minimum 1 1/2" (38mm)

Under no circumstances should hoses commonly used on domestic washing machines, dish washer, etc. be used. If permanent, stationary plumbing is impossible, only pressure- and temperature-rated all-metal corrugated flexible tubes or braided stainless hoses with 5/8" minimum inside diameter may be used.

OPERATING INSTRUCTIONS

OVERFILLING THE SINK WILL CAUSE WATER AND FOOD TO FLOW OUT OF THE SINK WHEN THE PUMP IS STARTED. IT IS BEST TO UNDERFILL THE SINK AND ADD MORE WATER IF THE FOOD DOES NOT ROTATE WITH THE WATER FLOW. THE MAXIMUM LOAD FOR EACH SECTION OF THE SINK IS 25 POUNDS OF FOOD.

DO NOT RUN THE WASH PUMP MOTOR WHEN THE WASH SINK IS EMPTY AND THE PURGE SYSTEM IS TURNED OFF. OPERATING THE WASH PUMP MOTOR WITHOUT WATER IN THE PUMP HOUSING WILL DAMAGE THE WASH PUMP SEALS.

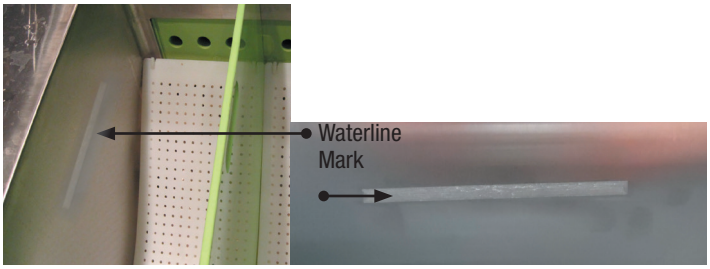
DO NOT PLACE KNIVES OR OTHER SHARP OBJECTS IN THE POWER PREP ADVANCED. ALLOWING KNIVES OR OTHER SHARP OBJECTS TO TUMBLE FREELY IN THE POWER PREP ADVANCED TANK MAY CAUSE DAMAGE TO THE EQUIPMENT AND BODILY INJURY TO THE USER.

OBSERVE SAFE LIFTING PROCEDURES BY NOT OVERLOADING THE BASKET. AN OVERLOADED BASKET WILL BE HEAVY AND MAY CAUSE AN INJURY FROM TRYING TO LIFT TOO MUCH WEIGHT.

FILLING THE WASH SINK

The amount of water that is at first run into the wash sink will be dependent on the amount of food that is placed in the sink. Start by filling the sink approximately half full of water. Limit the volume of food that will be placed into both sections of the sink to 50 pounds or less for most foods. Some experimentation may be needed to find the maximum food load for each food type. Separate the batch of food into two equal batches. Place half of the food into one section of the sink and the other half of the food in the other section of the sink. It is very important to the operation of the machine that the two sections of the sink contain approximately the same amount of food.

After all the food is in the sink, fill the sink with water until the level is approximately at the waterline mark.

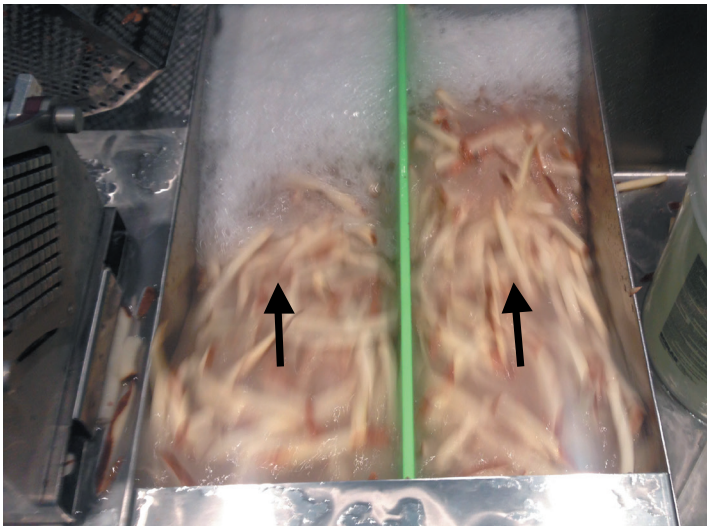


Rib Sets

WASHING FOOD

The wash sink must be filled prior to starting the wash pump motor. The motor is operated directly by an "ON – OFF" selector switch. Turn the switch to the ON position to start the pump.

When the pump is running, the water will become turbulent and begin rotating the food from front to back. If the wash sink is heavily loaded with food, it may be necessary to give the food a push to get the rotation started.



Food Washing Tips

In order to get the most effective results, follow these suggested tips:

- Always use cold water to fill the wash sink.
- Load each section of the wash sink with approximately the same amount of food.
- Do not exceed 25 pounds of food in each section of the wash sink.
- After loading the food into the wash sink, fill the water level to the waterline mark of the sink.
- Turn the wash pump motor on and be sure the food begins to rotate with the flow of the water in the wash sink. Give it a push if necessary. Temporarily filling the sink completely full with water is enough to get a heavy load moving.
- Let the food circulate in the water flow for the amount of time that has been determined by the management (usually 3 to 5 minutes).
- To unload the wash sink, use the removal basket while the wash pump is operating to collect the food from the circulating wash water. Observe safe lifting procedures by not overloading the basket.
- Drain and refill the wash sink after each batch of food.
- When a batch has been removed and the wash sink drained, rinse any remaining food particles off of the wash sink walls, flow guide and divider board.
- Leave the drain valve open for 5 seconds when starting to re-fill the wash sink so that the debris that has collected under the flow guide will be washed down the drain.

WASHING TIME

The food should be allowed to rotate in the wash sink for a time that is determined by the management. Please consult your chemical supplier for specific recommendations.

FOOD COLLECTION

At the end of the rotation period, the food can be removed from the wash water with the removal basket. With the wash pump operating, insert the open end of the basket into the flow of circulating food. As the basket is rotated into position the food will begin to fill the basket.

The food can be scooped from the flowing water by inserting the open end of the basket toward the rear of the wash sink and moving it forward. The water flow will push the food into the basket. Lift the basket out when it is filled and repeat until all the food has been removed from the wash sink.

When only a small volume of food is remaining in the wash sink, let the basket support pins rest on the sink and divider board to suspend the basket in the flowing water. The circulating water will move the remaining food into the basket.

Do not allow the intake screen to become clogged. Otherwise, performance of the Power Prep Advanced will be significantly impaired.

When all of the food has been removed from the wash sink, turn the wash pump motor off by rotating the control handle to the “OFF” position.

DRAIN VALVE

The drain valve handle rotates ¼ turn to open or close the drain valve. Counterclockwise rotation will open the drain valve; clockwise rotation will close the valve.

When the drain valve handle is horizontal, the valve is closed. When the drain valve handle is vertical, the valve is open.

CLEANING

DO NOT ATTEMPT TO CLEAN THE POWER PREP ADVANCED WITH A WATER JET. DOING SO COULD DAMAGE SEALS NOT DESIGNED FOR HIGH PRESSURE AND COULD RESULT IN SERIOUS INJURY OR DEATH FROM ELECTRICAL SHOCK.

DO NOT RUN THE WASH PUMP MOTOR WHEN THE WASH SINK IS EMPTY AND THE PURGE SYSTEM IS TURNED OFF. OPERATING THE WASH PUMP MOTOR WITHOUT WATER IN THE PUMP HOUSING WILL DAMAGE THE WASH PUMP SEALS.

After the last batch of food has been washed, the Power Prep Advanced needs to be disassembled and thoroughly cleaned. A recommended cleaning procedure is included in this section. This procedure was determined for general operation. Each owner of the Power Prep Advanced may have specific needs that have been outlined in their own procedure that will supersede these instructions.

PARTS REMOVAL

Remove each Power Prep Advanced component in the reverse order it was assembled. Wash each component to remove all traces of food debris. Position each component so that it dries quickly. Pay particular attention to the flow guides; provide airflow between each of them for drying and do not stack them together wet. Remove for cleaning:

- Wave guide
- Flow guides
- Divider board
- Rib sets
- Intake screen
- Jet channel

Wash, rinse, and sanitize the walls of the sink and opening in the back wall with the drain valve open. Remove all the food debris from the wash sink.

PUMP PURGE SYSTEM

After rinsing the debris from the wash sink, the pump housing will need to be purged of debris. The purge valve will be used to flush clean rinse water through the pump housing. Each position of the purge valve will flow fresh water to spray in a specific area of the pump housing. The water will flow from the pump housing into the wash sink carrying the debris that was left in the pump from the wash operation. Examination of the flush water to see that it is free of debris will determine when the pump housing has been properly flushed.

Pump Purge Procedure

1. Drain the water from the sink.
2. Remove all components from the wash sink including the jet channel, and the intake screen. Wash and rinse each component thoroughly. Separate each piece for drying.
3. Rinse the upper part of the sink walls and the discharge manifold and spray water through the discharge manifold opening and into the pump.
4. Spray water into the intake opening, and rinse out the remainder of the sink. Flow all debris toward the drain.
5. Remove all debris from the sink bottom and drain.
6. Operate the purge system stopping at each port (Positions 1, 2, and 3) for 5 seconds each. Rotate the handle of the purge valve clockwise, stopping at each of the numbered locations.
7. Remove the dislodged debris from the discharge manifold and the sink bottom.
8. Insert the jet channel and then fill the sink with water.
9. Run the pump for 60 seconds while performing the purge system sequence described in Step 6.
10. Drain the water from the sink and inspect for cleanliness.

Purge valve shown in the "OFF" position

PREVENTATIVE MAINTENANCE

TURN OFF THE POWER TO THE POWER PREP ADVANCED AT THE MAIN BREAKER PRIOR TO WORKING ON THE POWER PREP ADVANCED PUMP OR MOTOR. FAILURE TO TAKE THIS STEP COULD RESULT IN ELECTRICAL SHOCK THAT COULD RESULT IN SERIOUS INJURY OR DEATH.

The Power Prep Advanced system requires minimal routine preventive maintenance. The following tasks should be completed on a routine basis to ensure that the system remains reliable.

MONTHLY MAINTENANCE

Clean the pump motor fan shroud with a damp, soapy rag. The motor shroud is the "vented" cover located at the end of the motor (closest to the control panel). This cleaning will prevent grease and dust from accumulating in the cover's openings which can obstruct the airflow that cools the motor.

Inspect the entire system for total cleanliness including the manifolds.

De-lime the wash sink by adding a de-liming agent to a full sink of warm, fresh water and run the wash pump overnight. Ask a chemical sales representative to recommend a specific de-liming agent known to be effective in your area.

For questions regarding the preventive maintenance procedures, please contact the Power Soak service department at 888-994-7636.

TROUBLESHOOTING

ONLY A LIMITED NUMBER OF TROUBLESHOOTING AND REPAIR PROCEDURES MAY BE PERFORMED BY THE FACILITY OWNER OR MANAGER. ANY TROUBLESHOOTING OR REPAIR THAT REQUIRES THE REMOVAL OF FASTENERS OR THAT ENTAILS ELECTRICAL SERVICE MUST NOT BE ATTEMPTED BY ANYONE OTHER THAN AN AUTHORIZED SERVICE AGENCY. TO OBTAIN THE NAME OF A RECOMMENDED SERVICE AGENT IN YOUR AREA, PLEASE CALL THE POWER SOAK SERVICE DEPARTMENT AT AT 888-994-7636.

SYMPTOM	POSSIBLE CAUSE	REMEDY
Pump motor will not run	Circuit breaker accidentally turned off	Turn breaker on.
	Circuit breaker tripped	Investigate reason for tripping, e.g. damaged wiring, undersized breaker. Contact Power Soak service or an authorized service agency.
	Motor thermal overload tripped	Investigate reason for overload tripping, e.g. debris stuck in pump impeller. If debris removal requires that you remove any fasteners, contact Power Soak service or an authorized service agency. Once rectified, reset thermal overload by pressing button on bottom of motor junction box.
	Start capacitor defective (single phase motors only)	Replace capacitor. To do this, contact Power Soak service or an authorized service agency.
Unit too warm	Pump clogged with food	Ensure door / drawer is fully closed.
	Motor is running on the wrong voltage (initial installation)	Lock and tag out the electrical power from the unit. Remove the three adapter plate retaining nuts adjacent to the motor. Slide the motor, adapter plate, and impeller out of the pump housing. Remove debris from the impeller and reassemble. Contact Power Soak service or an authorized service agency for this service.
	Motor is running the wrong direction (initial installation)	For three phase motors, reverse any two motor leads. For single phase motors, reconnect motor internal leads according to the motor nameplate instructions. Contact Power Soak service or an authorized service agency to safely change the rotation.
Unit makes a loud, steady noise when running	Debris caught in the motor's cooling fan	Lock and tag out the electrical power from the unit, remove the motor fan cover, and remove the debris. Replace the fan cover and restore the power. For this task, Contact Power Soak service or an authorized service agency.
	Motor seal running dry	Lock and tag out the electrical power from the unit, remove the motor fan cover, and squirt some low viscosity oil such as WD40 between the fan and the motor end bell. Replace the fan cover and restore the power. Contact Power Soak service or an authorized service agency for service of this nature.
	Debris caught in the pump impeller	Lock and tag out the electrical power from the unit. Remove the three adapter plate retaining screws adjacent to the motor. Slide the motor, adapter plate, and impeller out of the pump housing. Remove debris from the impeller and reassemble. Contact Power Soak service or an authorized service agency for this service.

Service Log

Model No:	Purchased From:
Serial No:	Location:
Date Purchased:	Date Installed:
Purchase Order No:	For Service Call:

Date	Maintenance Performed	Performed By