

Warewashing Systems

INSTALLATION, OPERATION, AND SERVICE MANUAL





DELTA[®] SERIES GLASSWASHER DISHMACHINES

Delta 115/1200 Manual • 07610-003-62-15-Z

MANUFACTURER'S LIMITED WARRANTY (APPLICABLE ONLY IN THE UNITED STATES AND CANADA)

WARRANTY REGISTRATION:

To register your Jackson Dishmachine's warranty go to **jacksonwws.com/warranty** or call 1-888-800-5672. Failure to register the Dishmachine will void the warranty.

ONE YEAR LIMITED PARTS AND LABOR WARRANTY

For a period of one (1) year from date of original installation of a new Jackson Dishmachine (but in no event to exceed eighteen (18) months from date of shipment from Jackson's factory), Jackson WWS, Inc. (Jackson) will repair or replace, at its discretion, any original part that proves defective in materials or workmanship at the time the Dishmachine was purchased; provided that (i) the Dishmachine has not been altered, (ii) the Dishmachine has been properly installed, maintained, and operated under normal use conditions and in accordance with the applicable installation, operation and service manual available on the Jackson website, and (iii) a warranty claim is reported to a Jackson Authorized Service Agency within the warranty period. This warranty includes replacement with Jackson specified genuine replacement parts, purchased directly from a Jackson Authorized Parts Distributor or Service Agency. Use of generic replacement parts may create a hazard and shall void this warranty.

THIS WARRANTY DOES NOT APPLY OUTSIDE THE UNITED STATES AND CANADA.

Jackson will pay the labor to repair or replace a defective original part as a part of the warranty, provided that a Jackson Authorized Service Agency performs the labor. Any repair or replacement work by anyone other than a Jackson Authorized Service Agency is the sole responsibility of the purchaser. Labor coverage is limited to regular hourly rates; Jackson will not pay overtime premiums or emergency service charges.

Accessory components (such as table limit switches, pressure regulators, and drain water tempering kits) that are not installed by Jackson at the factory and are shipped with the Dishmachine carry only a (1) one-year parts warranty. Labor to repair or replace these components is not included in the warranty or covered by Jackson. Booster heaters not manufactured by Jackson are not covered by this warranty but are warranted by their respective manufacturers. This warranty is void if any defect or failure is a direct result from shipping, handling, fire, water, accident, alteration, modification, misuse, abuse, flood, acts of God, burglary, casualty, attempted repair by unauthorized persons, use of replacement parts not authorized by Jackson, improper installation, installation not in accordance with local electrical and plumbing codes, if the serial number has been removed or altered, if the Dishmachine is used for any purpose other than originally intended, or if the equipment is installed for residential use.

Jackson does not authorize any other entity or person, including, without limitation, any entity or person who deals in Jackson Dishmachines, to change this warranty or create any other obligation in connection with Jackson Dishmachines.

TRAVEL LIMITATIONS:

Jackson limits warranty travel time to the customer site within 50 miles of the Jackson authorized service agent's office and during regular business hours. Jackson will not pay for travel time and mileage that exceeds these limits, or any fees such as those for air or boat travel without prior authorization.

REPLACEMENT PARTS WARRANTY:

For a period of (90) ninety days from the date of installation by a Jackson Authorized Service Agency (but in no event to exceed (180) one-hundred-eighty days from the date of purchase from a Jackson Authorized Parts Distributor or Service Agency), Jackson will repair or replace, at its discretion, any Jackson genuine replacement parts that prove defective in materials or workmanship at the time the replacement parts were installed. This warranty does not include paying the labor to repair or replace the replacement part. This warranty is subject to all conditions, exclusions and limitations applicable to the Dishmachine.

MANUFACTURER'S LIMITED WARRANTY (CONT.) (APPLICABLE ONLY IN THE UNITED STATES AND CANADA)

PRODUCT CHANGES:

Jackson reserves the right to make changes in design and specification of any component of the Dishmachine as engineering or necessity requires.

DISCLAIMER OF WARRANTIES:

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, THAT ARE NOT SET FORTH HEREIN, OR THAT EXTEND BEYOND THE DURATION HEREOF.

LIMITATION OF REMEDIES AND LIABILITIES:

YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR OR REPLACEMENT AS PROVIDED HEREIN.

UNDER NO CIRCUMSTANCES WILL JACKSON BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THE NATURE OF PENALTIES. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND WITH RESPECT TO THE GOODS OR SERVICES COVERED HEREUNDER SHALL IN NO CASE EXCEED THE PRICE OF THE GOODS OR SERVICES OR PART THEREOF WHICH GIVES RISE TO THE CLAIM.

ITEMS NOT COVERED:

THIS WARRANTY DOES NOT COVER (1) ADJUSTMENTS INCLUDING, BUT NOT LIMITED TO, TIMER CAMS, THERMOSTATS, DOORS, TANK HEATER ADJUSTMENTS OR CLUTCHES; (2) AIR FREIGHT OR OVERNIGHT FREIGHT; (3) ANY AMOUNT EXCEEDING ORIGINAL PURCHASE PRICE; (4) CLEANING OF DRAIN VALVES. GAS LINES, RINSE/WASH NOZZLES, STRAINERS, SCREENS, OR SPRAY PIPES; (5) CLEANING OR DELIMING OF THE DISHMACHINE OR ANY COMPONENT INCLUDING, BUT NOT LIMITED TO, WASH ARMS, RINSE ARMS AND STRAINERS; (6) CONDITIONS CAUSED BY THE USE OF INCORRECT (NON-COMMERCIAL) GRADE DETERGENTS; (7) CORROSION FROM CHEMICALS DISPENSED IN EXCESS OF RECOMMENDED CONCENTRATIONS; (8) COSMETIC DAMAGE, INCLUDING BUT NOT LIMITED TO, SCRATCHES, DENTS, CHIPS, AND OTHER DAMAGE TO THE DISHMACHINE FINISHES, UNLESS SUCH DAMAGE RESULTS FROM DEFECTS IN MATERIALS AND WORKMANSHIP AND IS REPORTED TO JACKSON WITHIN (30) THIRTY DAYS FROM THE DATE OF INSTALLATION; (9) DAMAGE CAUSED BY LABOR DISPUTE; (10) DAMAGES RESULTING FROM IMPROPER CONNECTION TO UTILITY SERVICE; (11) DAMAGES RESULTING FROM WATER CONDITIONS, INADEQUATE OR EXCESSIVE WATER PRESSURE, ACCIDENTS, ALTERATIONS, IMPROPER USE, ABUSE, HANDLING, OVERLOADS, TAMPERING, IMPROPER INSTALLATION OR FAILURE TO FOLLOW MAINTENANCE AND OPERATING PROCEDURES; (12) DISCOLORATION, RUST OR OXIDATION OF SURFACES RESULTING FROM CAUSTIC OR CORROSIVE ENVIRONMENTS, INCLUDING, BUT NOT LIMITED TO, HIGH SALT CONCENTRATIONS, HIGH MOISTURE OR HUMIDITY, OR EXPOSURE TO CHEMICALS; (13) ELECTRIC BOOSTERS, FEED LINES, FLEX HOSE, FUSES, GARBAGE DISPOSALS, OR GAS PILOTS; (14) EXCESSIVE LIME, MINERAL, OR ALKALINE BUILDUP; (15) EXPENSES DUE TO DISCONNECTION, DELIVERY, RETURN AND REINSTALLATION; (16) FAILURE OF ELECTRICAL COMPONENTS DUE TO CONNECTION OF CHEMICAL DISPENSING EQUIPMENT INSTALLED BY OTHERS; (17) FAILURE OF FACILITY WATER HEATER TO MAKE TEMPERATURE: (18) FAILURE TO MAINTAIN WATER HARDNESS LOWER THAN 3.0 GRAINS, PH BETWEEN 7.0 AND 8.5 AND TOTAL DISSOLVED SOLIDS BELOW 250 PPM; (19) FAILURE TO COMPLY WITH LOCAL ELECTRICAL BUILDING CODES; (20) LEAKS OR DAMAGE RESULTING FROM SUCH LEAKS CAUSED BY THE INSTALLER, INCLUDING THOSE AT MACHINE TABLE CONNECTIONS, OR BY CONNECTION OF CHEMICAL DISPENSING EQUIPMENT INSTALLED BY OTHERS; (21) OPENING OR CLOSING OF UTILITY SUPPLY VALVES OR SWITCHING OF ELECTRICAL SUPPLY CURRENT; (22) PERFORMANCE OF REGULAR MAINTENANCE AND CLEANING AS OUTLINED IN THE OPERATOR'S GUIDE; (23) REMOVAL OR REINSTALLATION OF INACCESSIBLE DISHMACHINES OR BUILT-IN FIXTURES THAT INTERFERE WITH SERVICING, REMOVAL OR REPLACEMENT OF THE DISHMACHINE; (24) REPLACEMENT WEAR ITEMS INCLUDING, BUT NOT LIMITED TO, CURTAINS, DRAIN BALLS, DOOR GUIDES, GASKETS, O-RINGS, SEALS, SQUEEZE TUBES, AND BEARINGS; (25) RESIDENTIAL USE; (26) USE WITH UTILITY SERVICE OTHER THAN THAT DESIGNATED ON THE RATING PLATE.

REVISION HISTORY

| Revision | Date | Made by | Process | Details | |
|----------|----------|---------|----------------------|---|--|
| A | 10-27-08 | CW | N/A | Initial release of manual. | |
| В | 11-10-08 | GS | 8074 | Revised Drawings. | |
| С | 6-5-09 | ARL | 90605- 1430-MD | Updated electrical schematic. | |
| D | 2-10-10 | RLC | 091106- 1526-CW | Corrected part number on page 36. | |
| E | 2-14-12 | RLC | QOF-386 | Corrected view on pg. 35 to show correct position of mounting plate. Corrected item #14 on pg. 40 from 05930-011-61-65 to 05700-003-60-13. | |
| F | 5-21-12 | RLC | QOF-386 | Release of 14 RPM Peri-pump assembly. | |
| G | 3-21-13 | RLC | NDB-219 | Updated manufacturer name. | |
| Н | 6-9-14 | MHH | QOF-386 | Corrected P/N of item #14 on pg. 30. Added note to pg. 35 about placement of item #s 36 and 31. | |
| I | 9-15-14 | KAP | N/A | Updated Jackson Logo. | |
| J | 1-30-15 | KAP | QOF-386 | Updated part list on pg. 42. | |
| К | 8-7-15 | KAP | N/A | Updated detergent squeeze tube P/N. Updated and labeled rinse-aid and sanitizer squeeze tubes, pgs. 33-34. | |
| L | 10-8-15 | KAP | N/A | Updated item #9 P/N to 05700-003-60-38 on pg. 32. | |
| М | 11-19-15 | JH | 8336 | Added Delta 115 and associated schematics, etc. | |
| N | 1-19-16 | JH | QOF-386 | Updated schematic on pg. 47. | |
| Р | 4-26-16 | JH | 8379 | Updated schematic on pg. 48. | |
| Q | 9-19-16 | JH | N/A | Updated manual to new format. Removed "iodine" and "type of sanitizer used" from pg. 8. Replaced exploded views throughout with more legible views. Updated P/N of Power Disconnect Decal on pgs. 35 and 36. Updated P/N of item #8 on pg. 37. Updated P/N of item #1 on pg. 40. Updated P/N and description of item #13 on pg. 43. Updated P/N and description of item #15 on pg. 43. | |
| R | 7-11-17 | JH | 8453 | Corrected pg. 2, switched "Hot" and "Cold." Corrected flow pressure on pg. 3. Added lodiphor as a sanitizer on pg. 3 and updated the reference to sanitizers on pg. 8. Corrected P/N of item #4 on pg. 35 and item #6 on pg. 36. Changed P/N of item #7 and added P/N for entire bottom inlet manifold assembly on pg. 39. Added view and image of drain o-ring installation to pg. 41. Added rinse strainer, wash tank, and o-ring to pgs. 41 and 42. Changed P/N of item #10b on pg. 42. | |
| S | 6-18-18 | JH | 8593 8633 | Updated instructions on pgs. 11-14 to show stop caps. Added deliming instructions to pg. 15. Added bottom stop cap and top stop cap with hardware to pgs. 39-40. Changed P/N of item #7 on pg. 40. Added optional accumulator tray kit to pg. 42. Added deflector strainer to pgs. 43-44. | |
| т | 11-6-18 | JH | 8644 8645 8666 | Updated drawing on pg. 2. Added minimum inlet water temperature on pg. 3. Updated plumbing assemblies on pgs. 39-40. Updated manifold injection assembly on pgs. 39- 40. Added link to accumulator tray install instructions on pg. 42. | |
| U | 2-19-21 | JH | 8709 8788 8799 | Updated dimensional drawing. Revised peri-pumps assemblies. Updated schematics. | |
| V | 10-4-21 | JH | N/A | Updated electrical requirements. | |
| W | 2-25-22 | JH | 22-10872 | Consolidated two schematics into one. | |
| Х | 5-18-22 | JH | 22-1202 | Updated Chemical Feeder Pump Assembly section with black dot roller. | |
| Y | 12-8-22 | JH | 8901 22-14-24 | Corrected data plate location on pg. 7. Changed P/N of relay on pg. 22. Updated peri-pumps to black components. Added P/Ns for elbow and fitting to Wash System section. | |
| Z | 1-23-24 | JH | 23-2021 | Updated drain line size. Corrected footnote on Item #18 in Wash System section. Corrected Item #7 in Chemical Feeder Pump Assembly section. Added foam gasket to tub. Updated manifold assembly. Changed hinge on gear box to tilt hinge and updated spring P/N. Added conveyor guards. Updated schematic. | |



Warewashing Systems

DELTA 115

115 V glasswasher dishmachine; chemical-sanitizing, carouseltype, electric tank heat, with detergent, rinse-aid, and sanitizer chemical feeder pumps.

DELTA 1200

208 V glasswasher dishmachine; chemical-sanitizing, carouseltype, electric tank heat, with detergent, rinse-aid, and sanitizer chemical feeder pumps.

> The manufacturer provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual open when you call so that our staff can refer you, if necessary, to the proper page. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672.

Technical support is available for service personnel only.

TABLE OF CONTENTS

GUIDES

| Symbols | 1 |
|--------------------------|---|
| Abbreviations & Acronyms | 1 |

SPECIFICATIONS

| Machine Dimensions | 2 |
|-------------------------|---|
| Operating Parameters | 3 |
| Electrical Requirements | 4 |

INSTALLATION

| Installation Instructions | 5 |
|---------------------------------|---|
| Inspection | |
| Unpacking | 5 |
| Leveling | 5 |
| Plumbing | 5 |
| Water Supply Connection | 6 |
| Pressure Regulator | |
| Shock Absorber | 6 |
| Connecting the Drain Line | 6 |
| Plumbing Check | 6 |
| Electrical Power Connections | |
| Voltage Check | 7 |
| Surrounding Area | 7 |
| Thermostats | |
| Chemical Feeder Equipment | |
| Preparing Chemical Feeder Pumps | |
| Priming Chemical Feeder Pumps | 8 |
| | |

OPERATION

| Opera | ating Instructions | 9 |
|-------|------------------------|---|
| | Preparation | |
| | Filling the Wash Tub | |
| | Ware Preparation | |
| | Washing a Rack of Ware | |
| | Operational Inspection | |
| | Shutdown & Cleaning | |
| | After Cleaning | |
| | Detergent Control | |
| | Deliming | |
| | - | |

TABLE OF CONTENTS

MAINTENANCE

| reventative Maintenance |
|-------------------------|
|-------------------------|

TROUBLESHOOTING

PARTS

| Control Box Assembly - Delta 115 | 21 |
|-----------------------------------|----|
| Control Box Assembly - Delta 1200 | |
| Chemical Feeder Pump Assembly | 23 |
| Rinse Assembly | |
| Wash System | |
| Conveyor & Drive System | |
| Door Assembly | |
| Outer Shell Assembly | |
| Plumbing Options | |

SCHEMATIC

| 15/208/230 V, 50/60 Hz, 1-Phase |
|---------------------------------|
|---------------------------------|

GUIDES

SYMBOLS



- Risk of Injury to Personnel



- Risk of Damage to Equipment



- Risk of Electrical Shock



- Caustic Chemicals



- Reference Data Plate



- Lockout Electrical Power





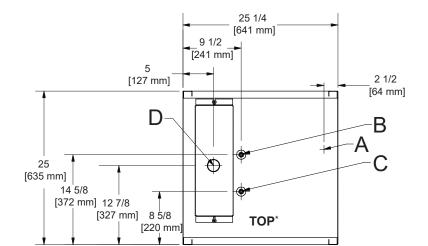
- Instructions Hyperlink

ABBREVIATIONS & ACRONYMS

ANSI - American National Standards Institute GHT - Garden Hose Thread GPH - Gallons per Hour GPM - Gallons per Minute GPG - Grains per Gallon HP - Horse Power Hz - Hertz ID - Inside Diameter kW - Kilowatts NFPA - National Fire Protection Association NPT - National Fire Protection Association NPT - National Pipe Thread PPM - Parts per Million PSI - Pounds per Square Inch V - Volts

SPECIFICATIONS

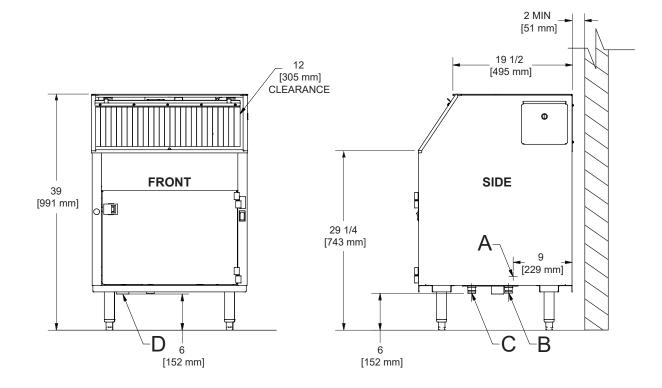
MACHINE DIMENSIONS



LEGEND

- A Electrical Connection
- B Water Inlet, Hot, 1/2"
- C Water Inlet, Cold, 1/2"
- D Drain Connection, 2"

All dimensions from the floor can be increased 1 1/4" using the machine's adjustable feet.



*Cut view showing machine base from top.

SPECIFICATIONS

OPERATING PARAMETERS

| Operating Capacity: Glasses per Hour | Delta 115 1200 | Delta 1200 1200 |
|--|--------------------------|---------------------------|
| Operating Cycle (Seconds): Total Cycle Time | 120 | 120 |
| Tank Capacity (Gallons): | 3.0 | 3.0 |
| Wash Pump Capacity (GPM): | 55 | 55 |
| Water Temperatures (°F): | | |
| Minimum Inlet Temperature | 120 | 130 |
| Minimum Wash Temperature | 120 | 130 |
| Minimum Rinse Temperature | 75 | 75 |
| Other Water Requirements: | | |
| Cold Water Flow Pressure (PSI) | 20 ± 5 | 20 ± 5 |
| Hot Water Flow Pressure (PSI) | 20 ± 5 | 20 ± 5 |
| Gallons per Hour | 10.0 | 10.0 |
| Water Line Size (NPT) | 1/2" | 1/2" |
| Drain Line Size (NPT) | 2" | 2" |
| Minimum Chlorine Required (PPM) | 50 | 50 |
| Minimum Iodiphor Required (PPM) | 12.5 | 12.5 |
| Electrical Loads (as applicable): | | |
| Wash Motor (HP) | 0.1 | 0.1 |
| Wash Heater (kW) | 1.3 | 2.7 (208 V)/3.3 (230 V) |



NOTICE Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and is subject to change without notice.

SPECIFICATIONS



All electrical ratings provided in this manual are for reference only. Always refer to the machine data plate to get exact electrical information for this machine. All electrical work performed on machines should be done in accordance with applicable local, state, territorial, and national codes. Work should only be performed by qualified electricians and authorized service agents.

Amperage loads for motors and heaters are indicated on the machine data plate.

The electrical configurations are as follows:

Available Electrical Characteristics:

Delta 115

• 115 V, 60 Hz, Single-phase

Delta 1200

- 208 V, 60 Hz, Single-phase
- 230 V, 60 Hz, Single-phase

ELECTRICAL REQUIREMENTS

Delta 115 Electrical Characteristics

Delta 1200 Electrical Characteristics

| VOLTS | 115 |
|------------------------|--------|
| PHASE | 1 |
| FREQ | 60 |
| WASH MOTOR AMPS | 2.5 A |
| WASH HEATER AMPS | 10.4 A |
| TOTAL LOAD | 12.9 A |
| MCA | 13.5 A |
| MOP | 15 A |

| VOLTS | 208 | 230 |
|------------------------|--------|--------|
| PHASE | 1 | 1 |
| FREQ | 60 | 60 |
| WASH MOTOR AMPS | 0.5 A | 0.4 A |
| WASH HEATER AMPS | 12.9 A | 14.3 A |
| TOTAL LOAD | 13.4 A | 14.7 A |
| MCA | 13.5 A | 14.8 |
| MOP | 15 A | 15 A |

INSTALLATION

INSTRUCTIONS

INSPECTION

Do not throw away container if damage is evident!

Before installing the machine, check packaging and machine for damage. Damaged packaging might be an indication of damage to the machine. If there is any type of damage to both packaging and machine, do not throw away the packaging. The machine has been inspected at the factory before shipping and is expected to arrive in new, undamaged condition. However, rough handling by carriers or others might result in damage to the machine while in transit. If this occurs, do not return the machine to the manufacturer. Instead, contact the carrier and ask them to send a representative to the site to inspect the damage and request that an inspection report be completed.

Contact the carrier within 48 hours of receiving the machine as well as the dealer that sold you the machine.

UNPACKING The machine should be unpacked and removed from the pallet before installing. Remove all of the materials from inside. Once unpacked, verify there are no missing parts. If a part is missing, contact the manufacturer immediately.

LEVELING The machine is designed to operate while level. This is important to prevent any damage to the machine during operation and to ensure the best possible results. The machine comes equipped with adjustable bullet feet which can be turned using a pair of pliers. Verify the machine is level from front-to-back and side-to-side before making any electrical or plumbing connections.

The plumber must flush the incoming water line!

PLUMBING All plumbing connections must be made to adhere to local, state, territorial, and national codes. The installing plumber is responsible for ensuring the incoming water lines are flushed of debris before connecting to the machine. Note that chips and materials from cutting processes can become lodged in the solenoid valves and prevent them from opening or closing. Any valves that are found to be fouled or defective because of foreign matter left in the water line, and any subsequent damage, are not the responsibility of the manufacturer.

> Cold water supply must be a minimum of 75 °F with a capacity of 180 GPH at 20 ± 5 PSI. Hot water supply must be a minimum of 120 °F (Delta 1200)/130 °F (Delta 115) with a capacity of 10 GPH at 20 ± 5 PSI. Incoming hot and cold water service connections (supplied by customer) must be a 1/2" NPT pipe size minimum. Install the water supply line to the machine using copper pipe. A water shut-off valve should be installed in the water line between the main supply and the machine to allow access for service.

A water hardness test must be performed.

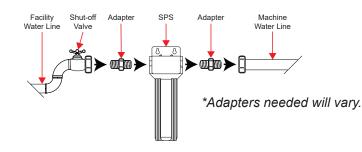
A water hardness test must be performed. If water hardness is higher than 3 GPG, install a water softener or install the optional Scale Prevention System (SPS). See the next section and the Plumbing Options page for more information on the SPS.

INSTALLATION

INSTRUCTIONS

3 GPG

WATER SUPPLY If water hardness is higher than 3 GPG and a water softener is not being used, install **CONNECTION:** the SPS into the water line between the facility water line and the machine water line. Observe proper inlet/outlet water directions (flow directions are molded into the top WATER HARDNESS of the head). A water shut-off valve should be installed before installing the SPS to **HIGHER THAN** allow access for service.



CONNECTION: WATER HARDNESS LOWER THAN 3 GPG

WATER SUPPLY If water hardness tests at 3 GPG or lower, connect the machine water line to the facility water line. A water shut-off valve should be installed in the water line between the facility supply and the machine to allow access for service.

| PRESSURE |
|-----------|
| REGULATOR |

Take care not to confuse static pressure with flow pressure!

The manufacturer has an optional water pressure regulator (see Plumbing Options page) to accommodate areas where water pressure fluctuates or is higher than the recommended pressure. Take care not to confuse static pressure with flow pressure: static pressure is line pressure in a "no flow" condition (all valves and services are closed); flow pressure is the pressure in the fill line when the valve is opened during the cycle.

| SHOCK ABSORBER | An optional shock absorber (see the Plumbing Options page) should be installed on the incoming water line. This prevents water hammer (hydraulic shock)—induced by the solenoid valve as it operates—from causing damage to the equipment. |
|------------------------------|--|
| CONNECTING THE DRAIN LINE | The Delta glasswashers have a gravity drain (2" NPT connection). All piping from the machine to the drain must be a minimum 2" NPT and must not be reduced. There must also be an air-gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 5 GPM. |
| PLUMBING CHECK | After installing the incoming fill line and the drain line, slowly turn on the water supply to the machine. Check for any leaks and repair as required. All leaks must be |

repaired before operating the machine.

INSTRUCTIONS

INSTALLATION

ELECTRICAL POWER CONNECTIONS

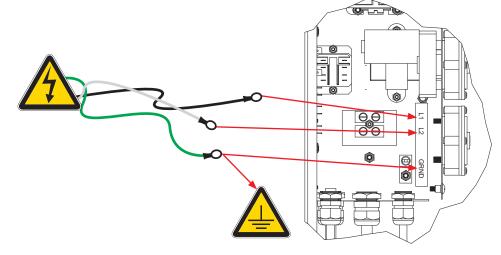


Disconnect electrical power at the breaker or disconnect switch and tag-out in accordance with procedures and codes.

Electrical and grounding conductors must comply with the applicable portions of the National Electric Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

The data plate is behind the door. Refer to the data plate for machine operating requirements, machine voltage, total amperage, and serial number.

Remove the electrical box cover. This will require removing the screws at the bottom with a phillips screwdriver and lifting it up and off. Install 3/4" conduit from the underside of the machine to the hole in the rear of the electrical box. Route power wires and connect to power block and grounding lug. Install the service wires (L1 and L2) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.





VOLTAGE CHECK Ensure "Power" switch is in "OFF" position and apply power to machine. Check the incoming power at the terminal block and ensure it corresponds with the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run machine if voltage is too high or too low. Shut-off the service breaker and advise all proper personnel of the location of the breaker and any problems. Replace the electrical box cover and tighten-down the screws.

SURROUNDING AREA

This is a commercial machine and reaches temperatures that can exceed those generated by a residential machine. Surrounding countertops, cabinets, flooring material, and subflooring material must be designed and/or selected with these higher temperatures in mind.



CAUTION! Any damage to surrounding area that is caused by heat and/or moisture to materials that are not recommended for higher temperatures will not be covered under warranty or by the manufacturer.

INSTALLATION

INSTRUCTIONS

THERMOSTATS The thermostats on this machine have been set at the factory. They should only be adjusted by an authorized service agent.

CHEMICAL FEEDER EQUIPMENT



CAUTION! Chlorine-based sanitizers can be detrimental to this machine if the chemical solution is too strong. See a chemical professional to ensure the dispenser is set-up correctly.

It is important to remember that if you decide to operate the machine in chemicalsanitizing mode, you must ensure an appropriate sanitizer (chlorine or iodiphor, see Operating Parameters page for concentrations) is used in the final rinse line.

PREPARING CHEMICAL FEEDER PUMPS

The Delta dishmachines are supplied with detergent, rinse-aid, and sanitizer chemical feeder pumps.

Locate the open ends of the chemical tubes with the tube stiffeners and place each one in the appropriate container.

Chemical feeder pumps need priming when the machine is first installed or if the

A. Red Tubing = Detergent B. Blue Tubing = Rinse-aid

chemical lines have been removed and air is allowed to enter.

C. White Tubing = Sanitizer

PRIMING CHEMICAL FEEDER PUMPS



WARNING! Some of the chemicals used in dishwashing might cause chemical burns if they come in contact with skin. Wear protective gear when handling these chemicals. If any contact with skin occurs, immediately follow the treatment instructions provided with the chemicals.



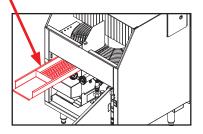
CAUTION! Water must be in the sump and wash tank before chemicals are dispensed. This equipment is not recommended for use with deionized water or other aggressive fluids.

- 1. Verify the proper chemical tube stiffener inlet is in the proper container.
- 2. Use the push buttons on the right side of control box to prime each pump.
- 3. To prime the pumps, hold down each prime switch until the chemical can be seen flowing through the chemical tubes.
- 4. Detergent is dispensed as required during the wash tank fill. The amount of detergent might need to be increased or decreased depending on water quality and type of detergent. It is adjusted by turning the potentiometer on the speed control board clockwise to increase, counter-clockwise to decrease.
- 5. Rinse-aid is dispensed proportionally into the final rinse water line. The amount of rinse-aid might need to be adjusted depending on water quality and results. It is adjusted by turning the potentiometer on the speed control board clockwise to increase, counter-clockwise to decrease.
- Sanitizer is dispensed proportionally into the final rinse water line. The amount 6. of sanitizer might need to be adjusted depending on concentration. It is adjusted by turning the potentiometer on the speed control board clockwise to increase, counter-clockwise to decrease.

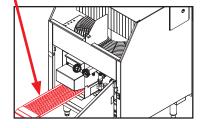
OPERATING INSTRUCTIONS

PREPARATION Before operating the machine, verify the following:

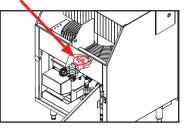
1. Wash strainer is clean and in place.



2. Rinse strainer is clean and in place.



3. The drain stopper is installed.



4. Chemical levels in chemical containers are correct.

FILLING THE 1. Place the power switch in the "FILL" position. **WASH TUB**



- 2. The machine will automatically begin to fill.
- 3. Verify temperatures before operating the machine.

WARE PREPARATION

WARE
ATIONProper preparation of ware will help ensure good results and fewer re-washes. If not
done properly, ware might not come out clean and the efficiency of the machine will
be reduced. Scraps should always be removed from ware before being loaded onto
the carousel. Pre-rinsing and pre-soaking are good ideas.

Place cups and glasses upside-down on the carousel so they don't hold water during the cycle. The machine sanitizes as well as cleans. To do this, ware must be properly prepared before being placed in the machine.

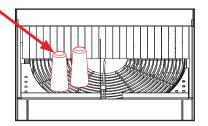
OPERATING INSTRUCTIONS

WASHING A RACK OF WARE

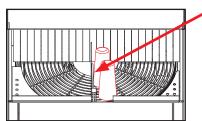
WASHING A RACK OF 1. Turn the power switch to the "ON" position; the carousel will begin to rotate.



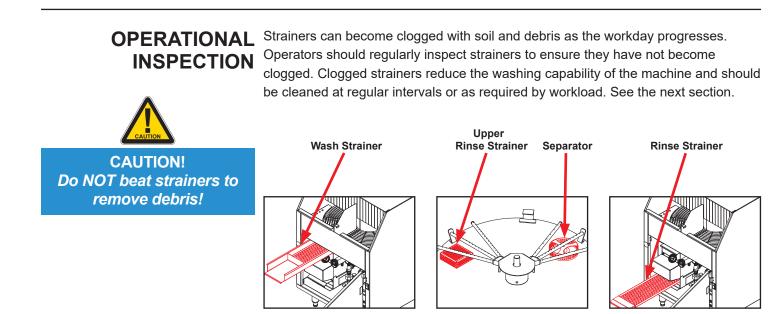
2. Place glasses upside-down on the carousel.



- 3. When the glasses have completed the cycle, the paddle switch will activate, turning off the water and carousel.
- 4. Remove clean glasses which are against the paddle switch.



5. The carousel will begin to rotate again.

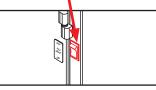


OPERATING INSTRUCTIONS

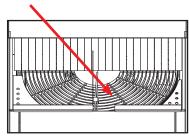
SHUTDOWN & 1. CLEANING



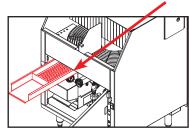
Disconnect electrical power at the breaker or disconnect switch and tag-out in accordance with procedures and codes. Turn power switch to the "OFF" position.



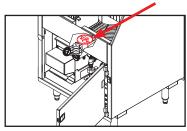
2. Ensure glasses are removed from carousel.



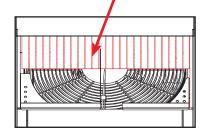
3. Remove and clean wash strainer.



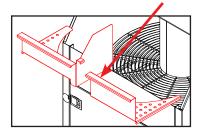
4. Remove and clean drain stopper.



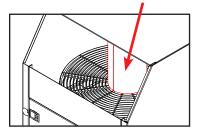
5. Remove curtain, clean with a mild soap, and rinse.



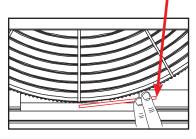
6. Remove and clean drain boards.



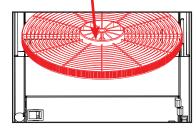
7. Remove and clean rack cylinder.



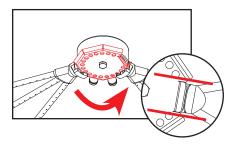
8. Hold paddle switch against wall of machine with one hand.



9. Remove carousel with other hand and clean.



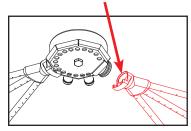
10. Rotate top stop cap counterclockwise until opening aligns with top rinse arm.



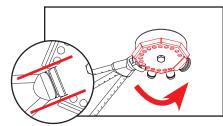


OPERATING INSTRUCTIONS

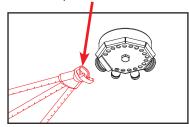
SHUTDOWN & 11. Remove top rinse arm. **CLEANING**



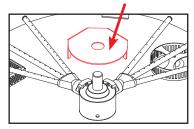
12. Rotate top stop cap counterclockwise until opening aligns with top wash arm.



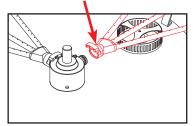
13. Remove top wash arm.



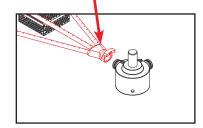
14. Remove bottom stop cap.



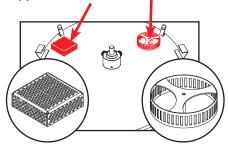
15. Remove bottom rinse arm.



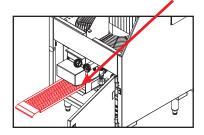
16. Remove bottom wash arm.



- 17. On all arms: remove end-caps, clean with a brush, and flush with fresh water.
- 18. Remove and clean separator and upper rinse strainer.



19. Remove and clean rinse strainer.





Bottom stop cap simply lifts off the manifold.

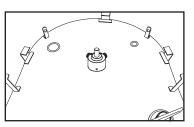
OPERATING INSTRUCTIONS

AFTER CLEANING

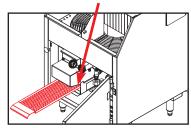


Ensure all components are clean before replacing them in the machine!

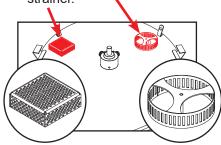
AFTER 1. Spray or wipe out interior of machine. 6. Insert middle of bottom rinse arm into



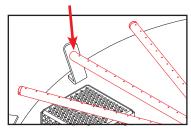
2. Replace rinse strainer.



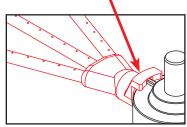
3. Replace separator and upper rinse strainer.



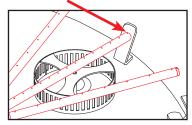
4. Insert middle of bottom wash arm into support bracket.



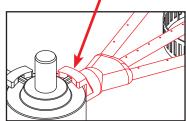
5. Push bottom wash arm onto manifold.



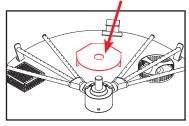
Insert middle of bottom rinse arm into support bracket.



7. Push bottom rinse arm onto manifold.

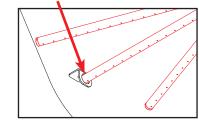


8. Replace bottom stop cap.

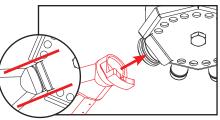


NOTICE Stop cap must be oriented as shown!

9. Insert middle of top wash arm into support bracket.



10. Push top wash arm onto manifold.



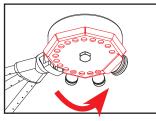
Align bottom of arm with guide tab on stop cap for easy install.

Top stop cap opening has a guide tab which allows the opening to easily be located during arm install.

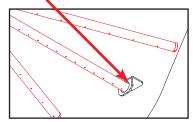
OPERATING INSTRUCTIONS

CLEANING

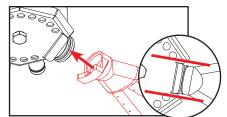
AFTER 11. Turn top stop cap counter-clockwise until opening aligns with wash arm location on manifold.



12. Insert middle of top rinse arm into support bracket.

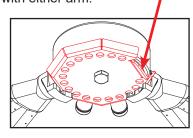


13. Push top rinse arm onto manifold.

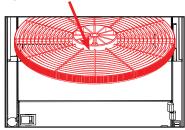


Align bottom of arm with guide tab on stop cap for easy install.

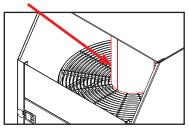
14. Turn top stop cap counter-clockwise until the opening does NOT align with either arm.



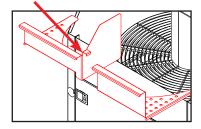
15. Replace carousel.



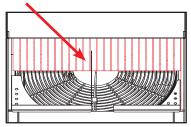
16. Replace rack cylinder.



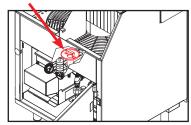
17. Replace drain boards.



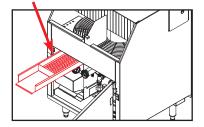
18. Replace curtain.



19. Replace drain stopper.



20. Replace wash strainer.



21. Use stainless steel polish to clean and protect outside of machine.

Top stop cap opening has a guide tab which allows the opening to easily be located during arm install.

OPERATING INSTRUCTIONS

CONTROL

DETERGENT Detergent usage and water hardness are two factors that contribute greatly to how efficiently this machine will operate. Using detergent in the proper amount can become a source of substantial savings. A qualified water treatment specialist can determine what is needed for maximum efficiency from the detergent.

- 1. Hard water greatly affects the performance of the machine, causing the amount of detergent required for washing to increase. If the machine is installed in an area with hard water, water treatment equipment should be installed.
- 2. Deposited solids from hard water can cause spotting that will not be removed with a drying agent. Treated water will reduce this occurence.
- 3. Treated water might not be suitable for use in other areas of operation and it might be necessary to install a water treatment unit for the water going to the machine only. Discuss this option with a qualified water treatment specialist.
- 4. Operators should be properly trained on how much detergent is to be used per cycle. Meet with a water treatment specialist and detergent vendor to discuss a complete training program for operators.
- 5. This machine requires chemicals be provided for proper operation and sanitization. Contact a chemical supplier with any questions.
- 6. Water temperature is an important factor in ensuring that the machine functions properly, and the machine's data plate details what the minimum temperatures must be. If minimum requirements are not met, there is a possibility that dishes will not be clean or sanitized.
- 7. Instruct machine operators to observe the required temperatures and to report when they fall below the minimum allowed. A loss of temperature can indicate a larger problem.

DELIMING In order to maintain the machine at its optimum performance level, lime and corrosion deposits must be removed. The frequency for deliming will be based on water conditions. A deliming solution is available from your chemical supplier. Read and follow all instructions on the label.

- 1. Disconnect the detergent pump.
- 2. Drain and refill the wash tank.
- 3. Add deliming solution per supplier's instructions.
- 4. Run machine the period of time recommended by chemical supplier.
- 5. Wait five minutes, then inspect the inside of the machine. If the machine is not delimed, run again.
- 6. Run two cycles to remove residual deliming solution.



MAINTENANCE

PREVENTATIVE MAINTENANCE

MAINTENANCE

PREVENTATIVE The manufacturer highly recommends that any maintenance and repairs not specifically discussed in this manual be performed only by QUALIFIED SERVICE PERSONNEL. Performing maintenance on your machine may void your warranty, lead to larger problems, or even cause harm to the operator.

> By following the operating and cleaning instructions in this manual, you should get the most efficient results from your machine. As a reminder, here are some steps to take to ensure that you are using the machine the way it was designed to work:



CAUTION! Do NOT beat strainers to remove debris!

- 1. Ensure that the water temperatures match those listed on the machine data plate. There can be a variety of reasons why your water temperature could be too low.
- 2. Ensure that all strainers are clean and securely in place before operating the machine. When cleaning out strainers, do NOT beat them on waste cans. Wipe out strainers with a rag and rinse under a faucet if necessary. Use a toothpick to dislodge any stubborn debris.
- 3. Ensure that all wash and rinse arms are secure in the machine before operating.
- 4. Ensure that the drain stopper is installed correctly (seated vertically in the center of the wash sump).
- 5. Remove as much soil from glasses as possible before loading onto carousel.
- 6 Do not overfill the carousel.
- 7. Ensure that glasses are placed upside-down on the carousel.
- 8. Ensure that all chemicals being injected into machine have been verified at the correct concentrations.
- 9. Clean the machine at the end of every workday per the Shutdown and Cleaning and After Cleaning sections of this manual.
- 10. Follow all safety procedures, whether listed in this manual or put forth by local, state, or national codes/regulations.



| OBSERVATION | PC | SSIBLE CAUSE | RE | MEDY |
|--|----------|--|----------|---|
| Machine will not run; no voltage | 1. | Electrical power not installed to machine, service (main) disconnect off. | 1. 2. | Ensure electrical wiring is run to machine and service (main) disconnect is on. Reset or replace as required. Have an electrician |
| at wash relay terminals L1 | 2. | Branch circuit breaker tripped or fuse is blown. | | check machine amp draw if problem recurs. |
| and T1. | 3. | Loose or broken connection to dish machine. | 3. | Tighten, replace, or repair as required. |
| Machine cycles continuously. | 1. | Limit switch actuator is loose or has fallen off. | 1. | Reassemble/bend metal lever if necessary. |
| | 2. | Faulty limit switch. | 2. | Replace switch. |
| | | | 1. | Ensure that water is hooked-up properly to machine and is turned on. |
| Machine will not fill; other functions work. | 1. 2. | No water supply to machine. Faulty hot water solenoid valve dia- phragm or coil. | 2. | Replace diaphragm and clean-out valve. Measure continuity on coil; if there is none, replace the coil. |
| | 3. | Faulty float switch. | 3. | Ohm-out the switch to ensure that upper and lower floats are working. If not, check float wiring to see if it is correct; if so, replace float. |
| Machine fills continuously, even with no | 1. | Solenoid valve jammed/stuck in the open position. | 1. 2. | Check diaphragm and coil; replace as required. Ohm-out the switch to ensure that upper and lower |
| power to the machine. | 2. | Faulty float switch. | 2. | floats are working. If not, check float wiring to see if it is correct; if so, replace float switch. |



| OBSERVATION | POSSIBLE CAUSE | REMEDY |
|---|--|--|
| Wash motor does not run; other functions work. | Loose wire connection to limit switch or relay. Faulty pump motor. Mechanical binding in the pump. High or low voltage problem. Faulty limit switch. | Tighten wires. Replace pump motor. If motor has correct incoming voltage and the overload is tripping, repair or replace the pump. Check voltage at motor and at power terminal block. Ensure it meets the electrical voltage specifiactions for the hmachine. Replace limit switch. |
| Wash motor runs continuously. | 1. Wash relay stuck closed. | Turn machine off. If wash relay does not release, replace. |
| Low water pressure. | Drain clogged. Defective drain valve. | Remove obstruction. Replace. |
| No indication of pressure. | Water level is too low. Wash arms clogged. Obstruction in pump housing. O-ring at wash tank drain cut or missing. | Ensure that incoming water line pressure meets the requirements on machine data plate. Remove wash arms and clean. Disassemble and clear. Replace. |
| Low wash water pressure at wash arm spray nozzles. | Pump impeller worn or broken. Clogged jets in wash arms. Float stuck on float switch. Water level too low in the wash tank. | Replace pump. Clean out wash arms. Remove, clean, and reinstall float switch. Ensure that the incoming water line flow pressure meets the requirements on the machine data plate. |

TROUBLESHOOTING

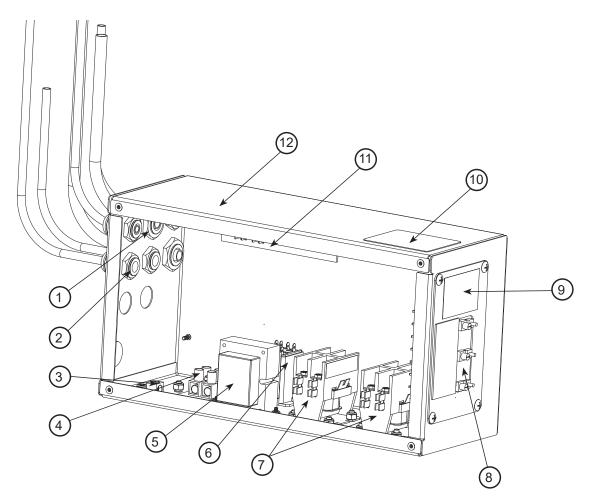


| OBSERVATION | POSSIBLE CAUSE | REMEDY |
|-----------------------------------|---|--|
| | 1. Power supply shorted to ground. | 1. Check for loose wires/burned connection. Replace or repair as required. |
| Machine keeps tripping service | 2. Pump impeller jammed. | 2. Disassemble and remove obstruction. |
| breaker. | 3. Wash pump motor faulty. | 3. Check motor voltage and amp draw. |
| | 4. Service breaker too small. | 4. Replace with correct-sized breaker. |
| Machine will not | 1. Drain stopper not in place. | 1. Set drain stopper correctly in drain. |
| hold water. | 2. Drain fitting O-ring cut or missing. | 2. Replace O-ring. |
| | 3. Drain stopper bent or deformed. | 3. Replace. |
| Sanitizer pump runs | 1. Shorted prime switch. | If there is not line voltage between BLACK/YELLOW and ORANGE/BLUE wires to prime switch, replace. |
| continuously. | 2. Faulty speed control board. | 2. Check operation of board. If not working properly, replace. |
| Sanitizer pump does not run | 1. Loose or broken wire. | 1. Replace or tighten. |
| during cycle, but runs when | 2. Faulty speed control board. | 2. Check operation of board. If not working properly, replace. |
| primed; even | 3. Faulty prime switch. | |
| when turntable is off. | | Check continuity through each pole of the speed control board. If it fails, replace the speed control board. |
| Prime switch does not | 1. Faulty prime switch. | With the prime switch in the prime position, check for voltage between BLACK/YELLOW and ORANGE/ |
| activate sanitizer pump. | 2. Loose wire to prime switch. | BLUE wires. If there is line voltage, replace switch. |
| , . . | | 2. Tighten wire connection. |



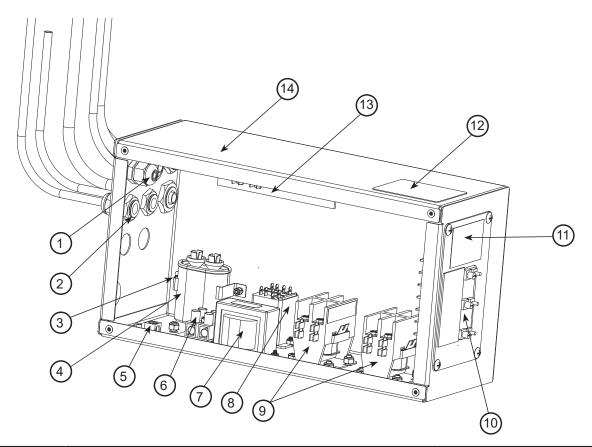
| PO | SSIBLE CAUSE | RE | MEDY |
|----|---|--|--|
| 1. | Loose motor terminal wires. | 1. | Tighten connections. |
| 2. | Faulty sanitizer pump motor. | 2. | If you read line voltage at the sanitizer motor terminals during the sanitizer feed cycle, replace the motor. |
| 3. | Faulty prime switch. | | |
| | | 3. | , , , |
| | | | If faulty, replace the speed control board. |
| 1. | Faulty speed control board. | 1. | Check operation of board. If not working properly, replace. |
| | | 1. | Check operation of board. If not working properly, replace. |
| 2. | Delective hose of squeeze tube. | 2. | Replace hose or squeeze tube as needed. |
| 1. | If no amp draw, check wash heater for continuity. | 1. | If open or shorted, replace the heater. If closed, replace the heater contactor. |
| 2. | Wash heater relay will not energize (no voltage at contactor coil). | 2. | Check for continuity at wash thermostat. If open, replace. |
| 3. | Low voltage problem. | 3. | Check incoming voltage to ensure it meets the requirements on machine data plate. |
| | 1. 2. 3. 1. 1. 2. 2. | Loose motor terminal wires. Faulty sanitizer pump motor. Faulty prime switch. Faulty speed control board. Faulty speed control board. Defective hose or squeeze tube. If no amp draw, check wash heater for continuity. Wash heater relay will not energize (no voltage at contactor coil). | 1.Loose motor terminal wires.1.2.Faulty sanitizer pump motor.2.3.Faulty prime switch.3.1.Faulty speed control board.1.1.Faulty speed control board.1.2.Defective hose or squeeze tube.2.1.If no amp draw, check wash heater for continuity.1.2.Wash heater relay will not energize (no voltage at contactor coil).2. |

CONTROL BOX ASSEMBLY - DELTA 115



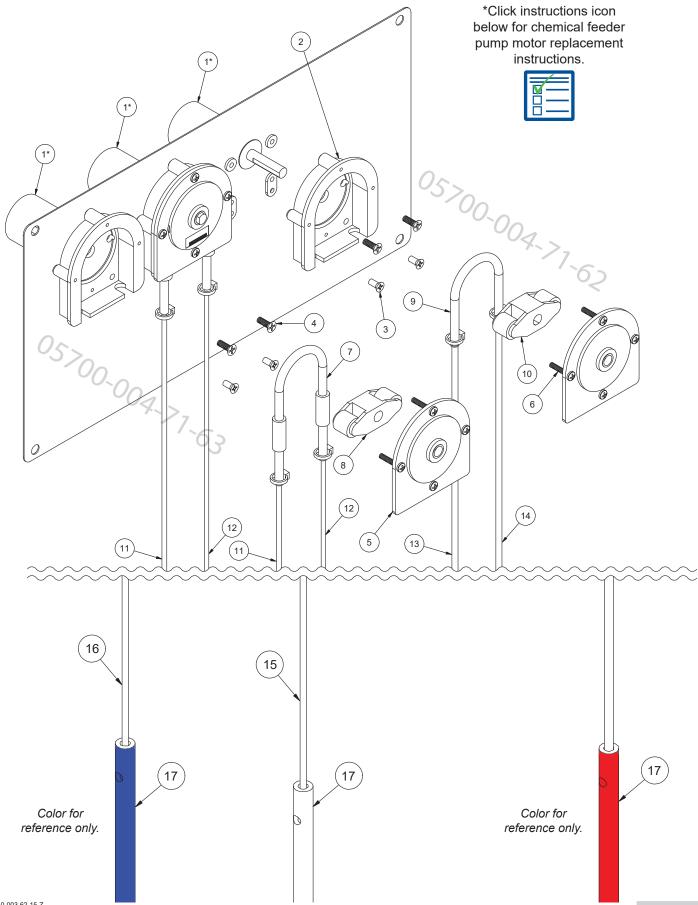
| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|----------------------------------|-----------------|
| 1 | 4 | Fitting | 05975-011-49-03 |
| 2 | 2 | Fitting | 05975-011-65-51 |
| 3 | 1 | Ground Lug | 05940-200-76-00 |
| 4 | 1 | Separator | 05940-500-09-61 |
| 5 | 1 | Transformer | 05950-002-16-78 |
| 6 | 1 | Relay | 05945-111-35-19 |
| 7 | 2 | Contactor | 05945-109-05-69 |
| 8 | 1 | Access Panel | 05700-003-55-38 |
| 9 | 1 | Decal, Warning, Disconnect Power | 09905-004-08-16 |
| 10 | 1 | Decal, Caution | 09905-011-68-99 |
| 11 | 1 | Terminal Board | 05940-002-78-97 |
| 12 | 1 | Complete Assembly | 05700-004-27-24 |

CONTROL BOX ASSEMBLY - DELTA 1200



| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|----------------------------------|-----------------|
| 1 | 2 | Fitting | 05975-011-49-03 |
| 2 | 3 | Fitting | 05975-011-65-51 |
| 3 | 1 | Bracket | 05700-003-56-00 |
| 4 | 1 | Capacitor | 05910-003-43-01 |
| 5 | 1 | Ground Lug | 05940-200-76-00 |
| 6 | 1 | Separator | 05940-500-09-61 |
| 7 | 1 | Transformer | 05950-011-61-67 |
| 8 | 1 | Relay | 05945-002-47-74 |
| 9 | 2 | Contactor | 05945-002-74-20 |
| 10 | 1 | Access Panel | 05700-003-55-38 |
| 11 | 1 | Decal, Warning, Disconnect Power | 09905-004-08-16 |
| 12 | 1 | Decal, Caution | 09905-011-68-99 |
| 13 | 1 | Terminal Board | 05940-002-78-97 |
| 14 | 1 | Complete Assembly | 05700-003-55-37 |

CHEMICAL FEEDER PUMP ASSEMBLY



CHEMICAL FEEDER PUMP ASSEMBLY

| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|--------------------------|-----------------|
| 1* | 3 | Motor, Peri-pump, 14 RPM | 04320-011-63-33 |
| 2 | 3 | Pump Housing, Rear | 04320-111-37-09 |
| 3 | 6 | Screw, 8-32 x 1/2" | 05305-011-37-06 |
| 4 | 6 | Screw, 8-32 x 3/8" | 05305-011-37-07 |
| 5 | 3 | Pump Housing, Cover | 04320-111-37-08 |
| 6 | 9 | Screw, 6-32 x 3/4" | 05305-011-37-05 |
| 7 | 2 | Tube, Squeeze | 05700-011-65-21 |
| 8 | 2 | Roller, Plastic | 04320-111-65-27 |
| 9 | 1 | Tube, Detergent Squeeze | 05700-003-22-89 |
| 10 | 1 | Roller, Plastic | 04320-002-82-28 |
| 11 | 2 | Tube, 1/8" x 60" Clear | 05700-011-63-19 |
| 12 | 2 | Tube, 1/8" x 35" Clear | 05700-011-63-14 |
| 13 | 1 | Tube, 1/4" x 60" Red | 05700-011-63-18 |
| 14 | 1 | Tube, 1/4" x 35" Red | 05700-011-63-16 |
| 15 | 1 | Tube, 1/4" x 15" Clear | 05700-011-63-17 |
| 16 | 1 | Tube, 1/4" x 15" Blue | 05700-011-63-15 |
| 17 | 3 | Tube Stiffener, 12" | 05700-002-94-47 |

Complete Peri-pump Assembly, 1/8" Tube Quantity 2 (Rinse-Aid and Sanitizer) 05700-004-71-63

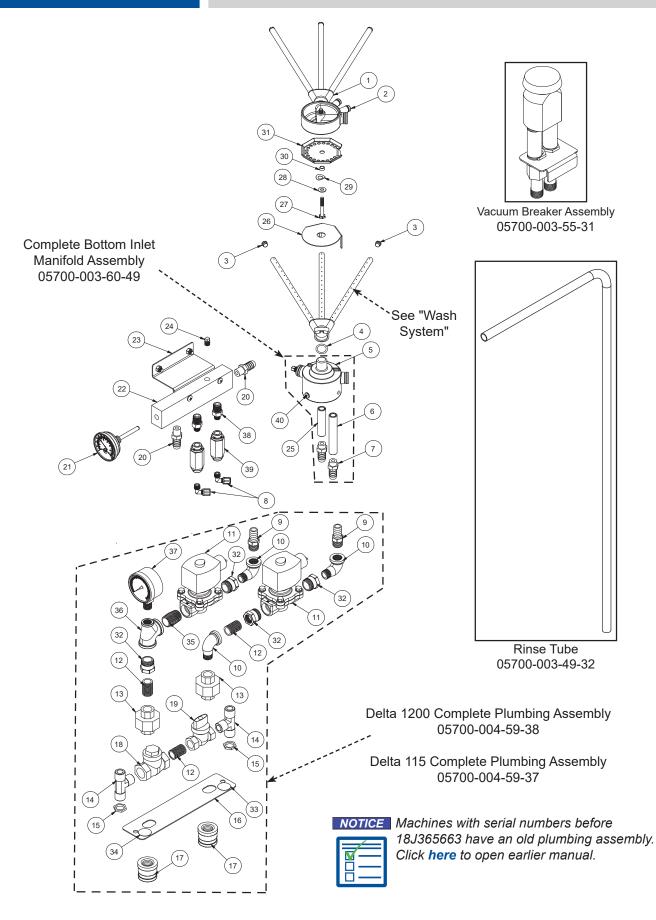
Complete Peri-pump Assembly, 1/4" Tube Quantity 1 (Detergent) 05700-004-71-62

Sanitizer Tube Replacement Kit Contains Items 12, 13, 16, and 18 06401-003-61-21

Rinse-aid Tube Replacement Kit Contains Items 12, 13, 17, and 18 06401-003-61-22

Detergent Tube Replacement Kit Contains Items 14, 15, and 18 06401-003-61-23

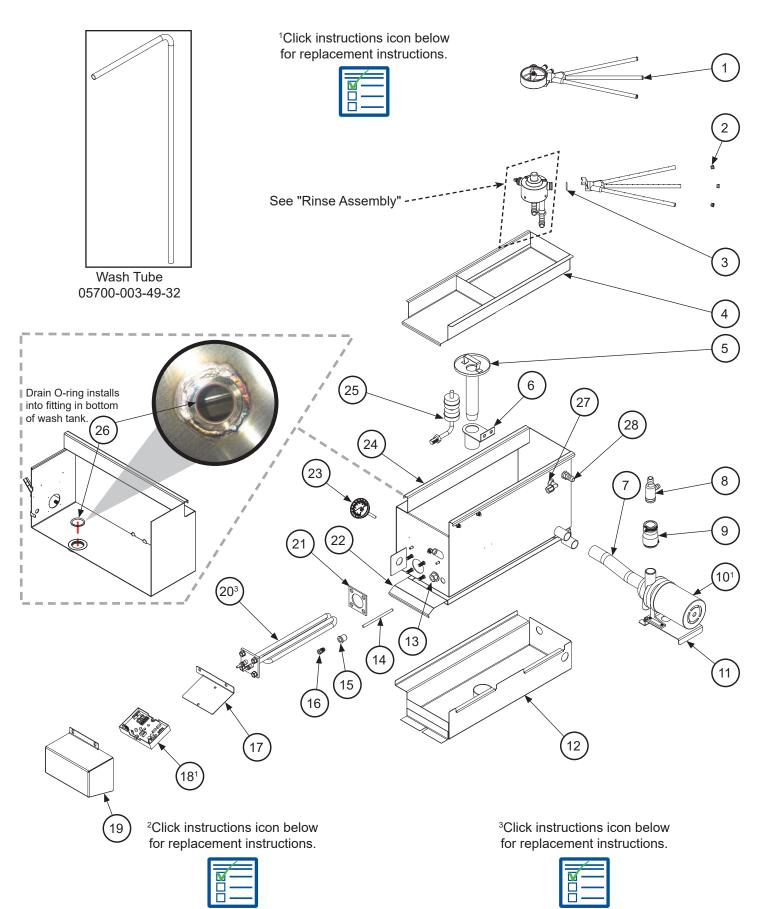
RINSE ASSEMBLY



RINSE ASSEMBLY

| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|---|-----------------|
| 1 | 2 | Rinse Arm | 05700-003-42-81 |
| 2 | 1 | Top Manifold | 09330-003-45-71 |
| 3 | 6 | Rinse Arm End-cap | 05700-003-55-57 |
| 4 | 2 | Rinse Arm O-ring | 05330-011-74-55 |
| 5 | 1 | Bottom Manifold | 09330-003-45-67 |
| 6 | 1 | Bottom Manifold Inlet | 04710-003-60-46 |
| 7 | 2 | Adapter, 1/2" Barb x 1/4" | 04730-004-55-02 |
| 8 | 2 | Elbow, 90-degree 1/8" x 1/8" | 85635332 |
| 9 | 2 | Fitting, 3/8" NPT x 1/2" Barbed | 04730-002-18-54 |
| 10 | 3 | Elbow, 3/8" 90-degree Street | 04730-002-15-36 |
| | | Solenoid Valve, Delta 1200 | 04810-003-71-56 |
| 11 | 2 | Solenoid Valve, Delta 115 | 04810-003-71-55 |
| 12 | 3 | 3/8" Close Nipple | 04730-002-18-00 |
| 13 | 2 | Union, 3/8" NPT Straight Brass | 04730-003-60-57 |
| 14 | 2 | Tee, 3/8" x 3/8" x 3/8" MNPT | 04730-011-61-53 |
| 15 | 2 | Jam Nut | 05310-011-61-45 |
| 16 | 1 | Mounting Plate | 05700-003-60-21 |
| 17 | 2 | Coupling, 1/2" FNPT x 3/8" FNPT | 04730-011-61-52 |
| 18 | 1 | Check Valve, 3/8" FNPT | 04820-011-61-56 |
| 19 | 1 | Ball Valve, 3/8" FNPT | 04820-011-61-58 |
| 20 | 2 | Fitting, 1/4" MNPT | 04730-011-61-62 |
| 21 | 1 | Thermometer | 06685-111-35-30 |
| 22 | 1 | Injection Manifold | 05700-031-60-37 |
| 23 | 1 | Bracket | 05700-003-58-79 |
| 24 | 1 | Plug, 1/4" Brass | 04730-209-01-00 |
| 25 | 1 | Bottom Manifold Inlet | 05700-003-60-45 |
| 26 | 1 | Stop Cap, Bottom | 05700-004-58-32 |
| 27 | 1 | Screw, 1/4-20 x 1 3/4" Hex Head | 05305-274-10-00 |
| 28 | 1 | Washer, 1/4-20 | 05311-174-01-00 |
| 29 | 1 | Spring, Curved Disk | 05311-004-58-34 |
| 30 | 1 | Spacer | 05700-000-29-40 |
| 31 | 1 | Stop Cap, Top | 05700-004-58-31 |
| 32 | 4 | Reducer Bushing, 1/2" x 3/8" | 04730-003-40-26 |
| 33 | 1 | Decal, Red Dot | 09905-011-65-46 |
| 34 | 1 | Decal, Blue Dot | 09905-011-65-47 |
| 35 | 1 | Nipple, 1/2" Close Brass | 04730-207-15-00 |
| 36 | 1 | Fitting, Brass, Reducing Tee | 04710-004-59-87 |
| 37 | 1 | Pressure Gauge | 06685-111-88-34 |
| 38 | 2 | Reducer Nipple, 1/4" to 1/8" | 04730-005-05-78 |
| 39 | 2 | Check Valve, 1/8" | 85244077 |
| 40 | 3 | Screw, 10-32 x 1/2" with Sealing O-ring | 05305-004-26-70 |

WASH SYSTEM



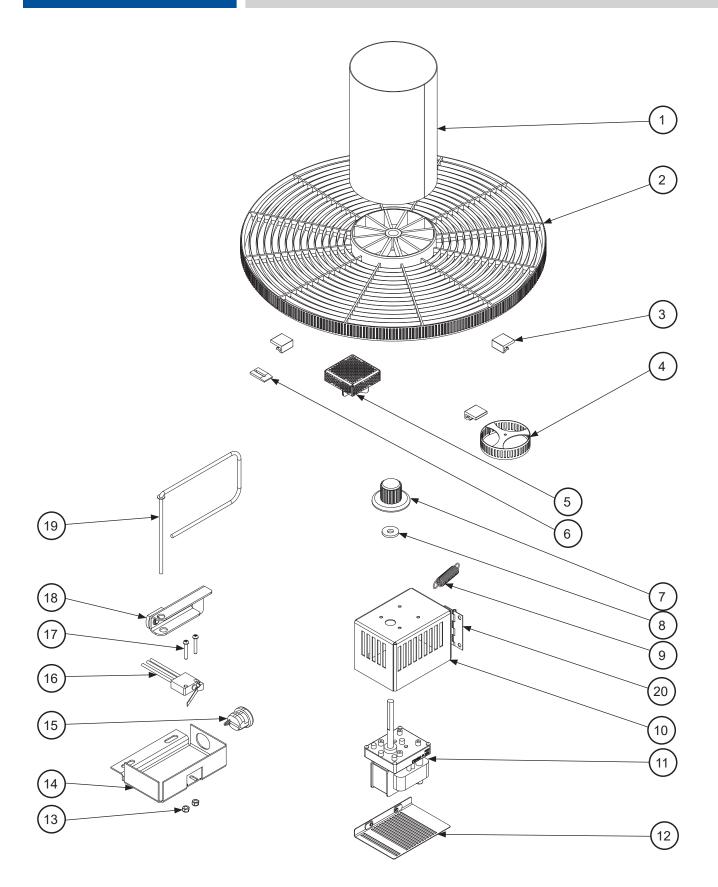
WASH SYSTEM

| ITEM | QTY | DESCRIPTION | PART NUMBER |
|-----------------|-----|-------------------------------------|-----------------|
| 1 | 2 | Wash Arm | 05700-003-42-83 |
| 2 | 6 | Wash Arm End-cap | 05700-003-55-57 |
| 3 | 2 | O-ring, 13/16" OD | 05330-011-74-55 |
| 4 | 1 | Wash Tank Strainer | 05700-021-61-78 |
| 5 | 1 | Drain Stopper | 05700-021-62-22 |
| 6 | 1 | Support, Drain Stopper | 05700-003-59-21 |
| 7 | 1 | Pump Suction Hose | 05700-003-60-25 |
| 8 | 1 | Pump Hose Connector | 04730-003-40-64 |
| 9 | 1 | Pump Discharge Hose | 05700-003-59-96 |
| 10* | 1 | Wash Pump, Delta 1200 | 06105-003-44-22 |
| 10* | 1 | Wash Pump, Delta 115 | 06105-004-25-01 |
| 11 | 1 | Bracket, Wash Pump | 05700-003-56-41 |
| 12 | 1 | Drain Weldment | 05700-003-60-00 |
| 13 | 1 | Hexnut, 1/2"-13 S/S | 05310-011-72-58 |
| 14 | 1 | Thermostat Probe | 06685-004-17-26 |
| 15 | 1 | Washer, 1/2" Flat | 05311-011-71-93 |
| 16 | 1 | Thermostat Probe Fitting | 05310-924-02-05 |
| 17 | 1 | Thermostat Bracket | 05700-004-28-56 |
| 18 ¹ | 1 | Thermostat, ELAN Electronic Dual | 06685-004-17-27 |
| 19 | 1 | Heater Cover | 05700-004-28-55 |
| 20 ² | | Wash Heater, Delta 1200 | 04540-021-61-66 |
| 20- | 1 | Wash Heater, Delta 115 | 04540-004-25-61 |
| 21 | 1 | Wash Heater Gasket | 05330-011-61-34 |
| 22 | 1 | Rinse Strainer | 05700-021-61-79 |
| 23 | 1 | Thermometer | 06685-111-35-30 |
| 24 | 1 | Wash Tank | 05700-003-60-12 |
| 25 | 1 | Float | 06680-121-70-16 |
| 26 | 1 | Drain O-ring | 05330-400-05-00 |
| 27 | 1 | Elbow, 1/4" x 1/4" | 04730-111-48-87 |
| 28 | 1 | Fitting, 1/4", 1/2" OD | 04730-011-61-62 |
| 29 | 1 | Tub Bottom Gasket, Foam (Not Shown) | 05700-003-60-41 |

Optional Accumulator Tray Kit 06401-031-66-21



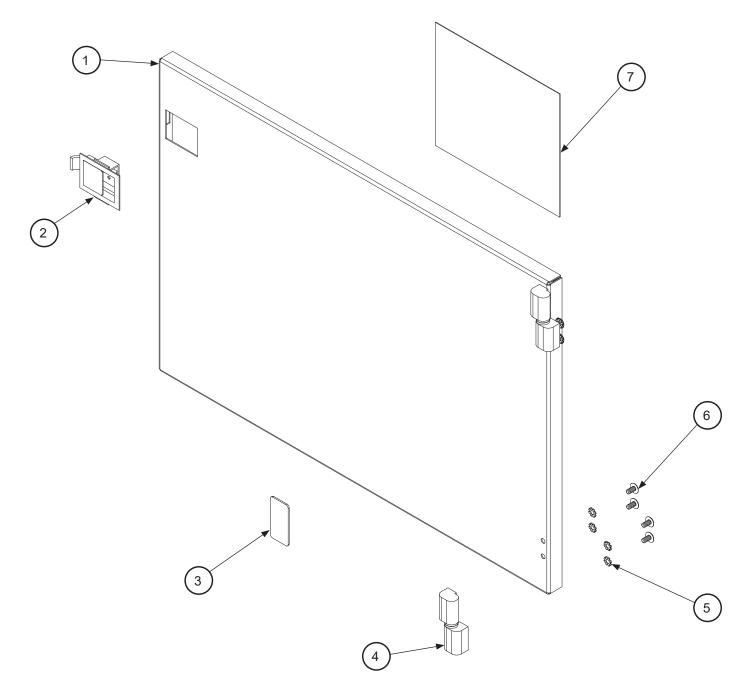
CONVEYOR & DRIVE SYSTEM



CONVEYOR & DRIVE SYSTEM

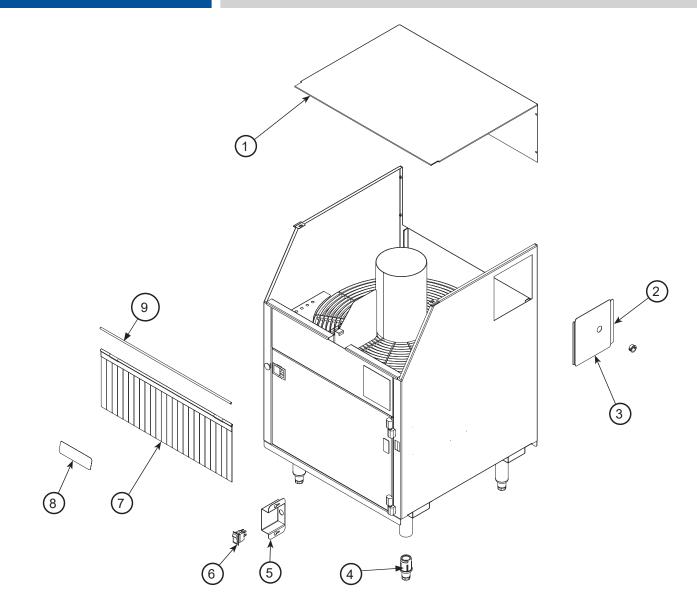
| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|------------------------------|-----------------|
| 1 | 1 | Cylinder | 05700-003-49-10 |
| 2 | 1 | Rack | 09330-003-45-66 |
| 3 | 3 | Guide Block | 09330-003-51-17 |
| 4 | 1 | Separator | 05700-003-59-93 |
| 5 | 1 | Strainer, Deflector | 05700-004-35-13 |
| 6 | 1 | Plate, Skid | 09330-003-58-52 |
| 7 | 1 | Drive Gear | 09330-003-58-32 |
| 8 | 1 | Washer | 05330-003-41-75 |
| 9 | 1 | Extension Spring | 05340-005-11-64 |
| 10 | 1 | Gear Motor Box | 05700-003-48-87 |
| 11 | 1 | Gear Motor, Delta 1200 | 06105-003-44-23 |
| | | Gear Motor, Delta 115 | 06105-004-26-30 |
| 12 | 1 | Gear Motor Box Cover | 05700-003-48-57 |
| 13 | 2 | Lock Nut, 6-32 | 05310-373-03-00 |
| 14 | 1 | Switch Mounting Bracket | 05700-003-60-13 |
| 15 | 1 | Liquidtite Fitting | 05975-011-49-03 |
| 16 | 1 | Limit Switch | 05930-303-38-00 |
| 17 | 2 | Limit Switch Mounting Screws | 05305-171-10-00 |
| 18 | 1 | Activator Weldment | 05700-003-58-50 |
| 19 | 1 | Limit Switch Actuator | 05700-003-58-54 |
| 20 | 1 | Hinge, Tilt Plate | 05700-005-11-49 |

DOOR ASSEMBLY



| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|-------------------------------|-----------------|
| 1 | 1 | Door Weldment | 05700-002-24-40 |
| 2 | 1 | Handle, Door Glasswasher | 05340-001-96-30 |
| 3 | 1 | Decal - Off/Fill/On | 09905-011-61-70 |
| 4 | 2 | Hinge | 05340-021-62-04 |
| 5 | 8 | Starwasher, External Tooth | 05311-273-02-00 |
| 6 | 8 | Screw 10-24 X 3/8 | 05305-173-03-00 |
| 7 | 1 | Decal, Operating Instructions | 09905-021-64-88 |

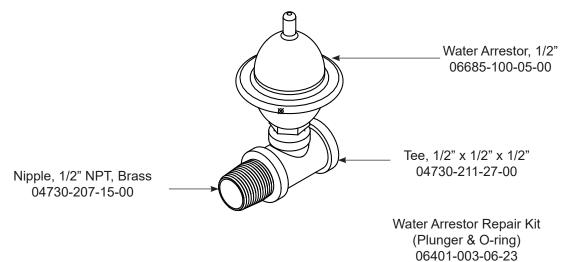
OUTER SHELL ASSEMBLY



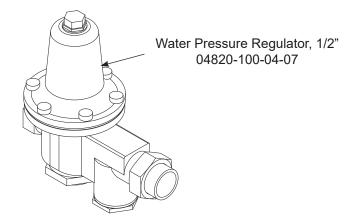
| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|-----------------------|-----------------|
| 1 | 1 | Outer Cover | 05700-003-57-95 |
| 2 | 1 | Bushing | 05975-210-03-00 |
| 3 | 1 | Access Cover | 05700-003-58-73 |
| 4 | 4 | Bullet Foot | 05340-108-01-03 |
| 5 | 1 | Switch Cover | 05700-003-60-39 |
| 6 | 1 | Power Switch | 05930-011-61-69 |
| 7 | 1 | Curtain | 08415-003-60-35 |
| 8 | 1 | Jackson Decal | 09905-004-03-02 |
| 9 | 1 | Curtain Rod | 05700-003-60-38 |
| 10 | 1 | Conveyor Guard, Left | 05700-003-42-96 |
| 11 | 1 | Conveyor Guard, Right | 05700-003-42-91 |

PLUMBING OPTIONS

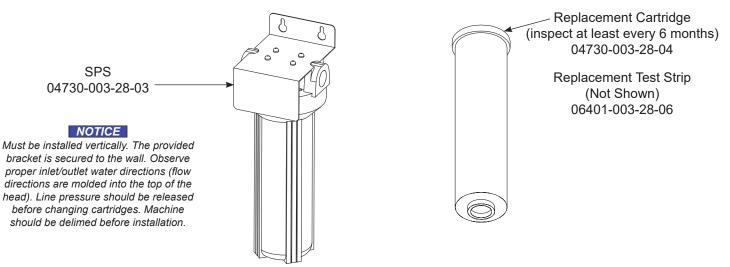
SHOCK ABSORBER (WATER ARRESTOR) OPTION



PRESSURE REGULATOR OPTION

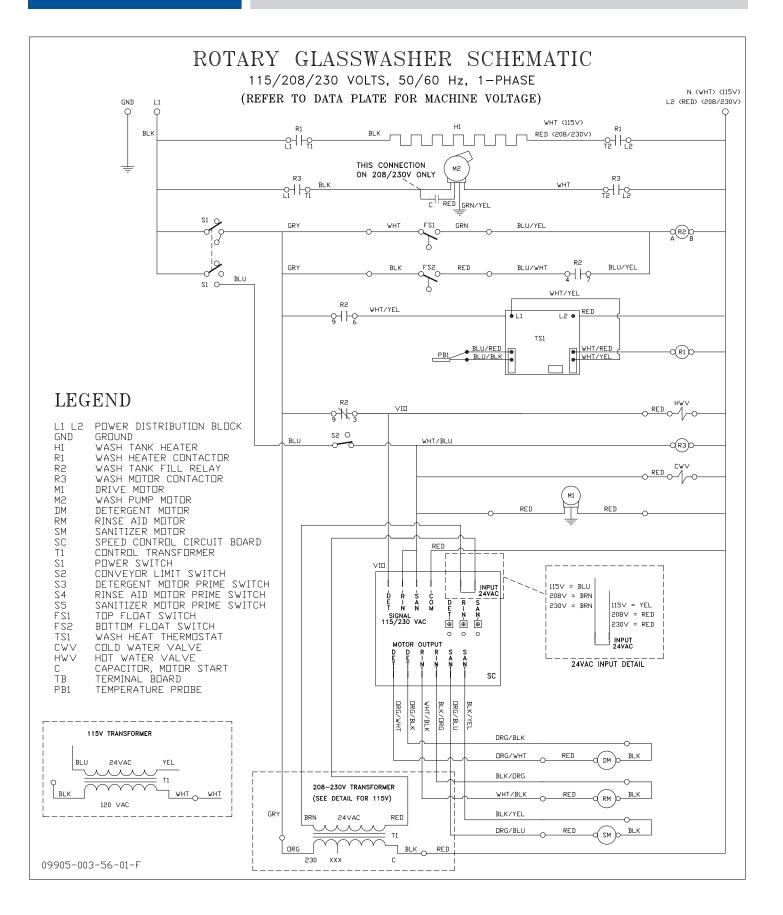


SCALE PREVENTION SYSTEM (SPS) OPTION



SCHEMATIC

115/208/230 V, 50/60 HZ, 1-PHASE





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Delta 115/1200 Manual • 07610-003-62-15-Z