

INSTALLATION, OPERATION, AND SERVICE MANUAL





DISHSTAR SERIES GLASSWASHER DISHMACHINES

DishStar ADA-SEER Manual • 07610-004-99-71-B



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

WARRANTY REGISTRATION:

To register your Jackson Dishmachine's warranty go to www.jacksonwws-warranty.com 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 Letter	Revision Date	Made by	Applicable ECNs	Details	
Α	12-13-21	JH	8566	Initial release of the manual.	
В	2-2-22	JH	8709	Updated electical panel, chemical feeder pump assembly, and door interlock.	



Warewashing Systems

DishStar ADA-SEER

Glasswasher dishmachine; high-temperature, hot-water sanitizing, with a booster tank and detergent and rinse-aid chemical feeder pumps.

Equipped with Steam Elimination and Energy Recovery (SEER) system.

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.

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208/230 V, 50/60 Hz, 1 Phase	52

GUIDES

SYMBOLS



- Risk of Injury to Personnel



- Risk of Damage to Equipment



- Risk of Electrical Shock



- Caustic Chemicals



- Reference Data Plate



- Lockout Electrical Power

NOTICE - Important Note



- Instructions Hyperlink

ABBREVIATIONS & ACRONYMS

ANSI - American National Standards Institute

GHT - Garden Hose Thread

GPG - Grains per Gallon

GPM - Gallons per Minute

HP - Horse Power

Hz - Hertz

ID - Inside Diameter

kW - Kilowatts

MCA - Minimum Circuit Ampacity

MOP - Maximum Overcurrent Protection

NFPA - National Fire Protection Association

NPT - National Pipe Thread

OD - Outside Diameter

PRV - Pressure Regulating Valve

PSI - Pounds per Square Inch

V - Volts

DIMENSIONS

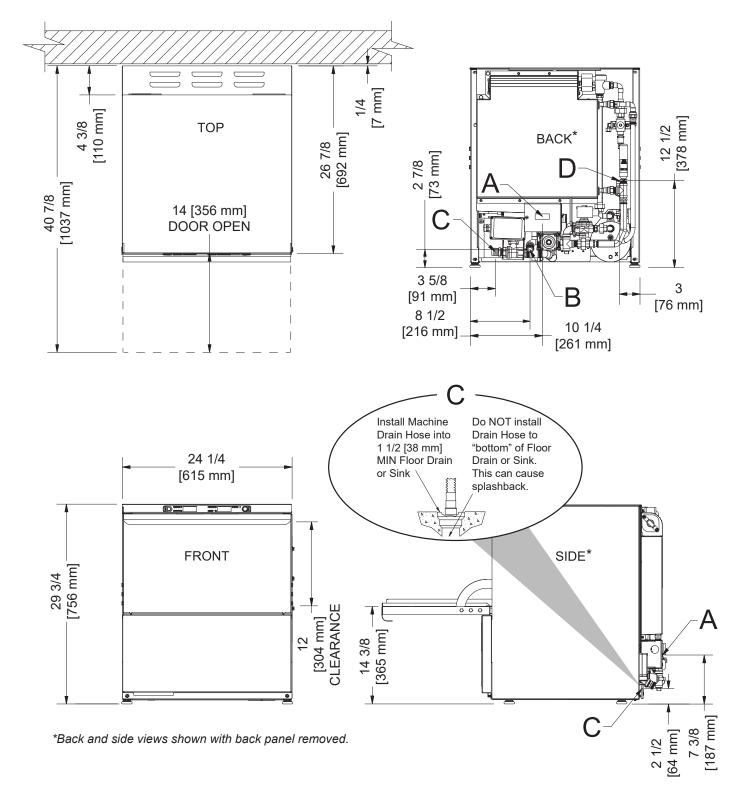
LEGEND

A - Electrical Connection

B - Water Inlet (with 5' Hose) (3/4" Male GHT, connect to true 1/2" ID line, 40–90 °F) C - Drain Connection (5/8" ID, install into MIN 1 1/2" Drain with Air-gap)

D - Chemical Port

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



OPERATING PARAMETERS

DishStar ADA-SEER

Operating Capacity:

Racks per Hour	24 (20)*
Dishes per Hour	600
Glasses per Hour	864

Tank Capacity (Gallons):

Wash Tank 3
Rinse Tank 1.66



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.

Cycle Times (Seconds):

Nor	mal	Hea	avy	Extra Heavy	
Wash	80	Wash	148	Wash	248
Rinse	9	Rinse	9	Rinse	9
Dwell	11	Dwell	11	Dwell	11
SEER	45	SEER	45	SEER	45
Total	145	Total	213	Total	313

Water Temperatures (°F):

Minimum Wash Temperature 155
Minimum Rinse Temperature 180
Minimum Incoming Water Temperature 40
Maximum Incoming Water Temperature 90

Incoming water is from a "cold" water line.

Other Water Requirements:

Water Flow Pressure (PSI)	10
Flow Rate Minimum (GPM)	4.0

Water Line Size (NPT) 3/4" Male GHT

Connect to true 1/2" ID Line

Drain Line Size (NPT) 5/8" ID

Connect to MIN 1 1/2" Drain with

Air-gap

Gallons per Hour (GPH) 14.4 (12.0)**

Gallons per Rack (GPR) 0.60

^{*}Racks per hour calculated with NSF suggested load time of :30 for front-opening dishmachines.

^{**}Gallons per hour calculated with NSF suggested load time of :30 for front-opening dishmachines.

SPECIFICATIONS

ELECTRICAL REQUIREMENTS





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:

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

Available Wash Motors:

3/4 HP

Available Wash Tank Heaters:

3.3 kW (208 V)/4.0 kW (230 V)

Available Rinse Tank Heaters:

4.1 kW (208 V)/5.2 kW (230 V)

DishStar ADA-SEER Electrical Characteristics

VOLTS	208	230
PHASE	1	1
FREQ	60	60
WASH MOTOR AMPS	6.6 A	6.6 A
WASH HEATER AMPS	15.7 A	17.4 A
RINSE HEATER AMPS	19.7 A	22.6 A
TOTAL LOAD	26.3 A*	29.2 A*
MCA	27.9 A	30.8 A
МОР	30 A	35 A

^{*}The ADA-SEER is designed so heaters never run simultaneously. Total Load is based on higher of the two loads.

INSPECTION

Do not throw away packaging 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 unit, 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. Open the front door and remove all materials from inside. Once unpacked, verify there are no missing parts. If a part is missing, contact the manufacturer immediately.

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.

See the Dimensions page and reference item "B" for water inlet connection location.

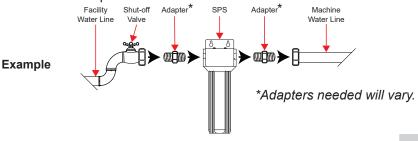
NOTICE

The manufacturer does NOT endorse "Tankless On-demand" water heaters for use with their dishmachines. The manufacturer DOES endorse, and highly recommends, the standard "Tank" style water heaters, sized to properly handle the water heating requirements of the facility.

WATER SUPPLY **CONNECTIONS:** WATER HARDNESS **HIGHER THAN 3 GPG**

A water hardness test must be performed.

A hardness test kit can be found on the warning tag attached to the incoming plumbing connection on the back of the machine. If water hardness is higher than 3 GPG and a water softener is not being used, install the optional Scale Prevention System (SPS) into the water line between the facility water line and the machine water line (installed at the factory). See the Scale Prevention System page for more information on the SPS. Observe proper inlet/outlet water directions. A water shut-off valve should be installed before installing the SPS to allow access for service. The water supply must be capable of a minimum of 10 PSI "flow" pressure at the recommended temperature indicated on the data plate.



CONNECTIONS: WATER HARDNESS

WATER SUPPLY If water hardness tests at 3 GPG or lower, connect the machine water line (installed at the factory) 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. The water supply line must be capable of a minimum of 10 PSI "flow" pressure at the **LOWER THAN 3 GPG** recommended temperature indicated on the data plate.

PRESSURE REGULATOR

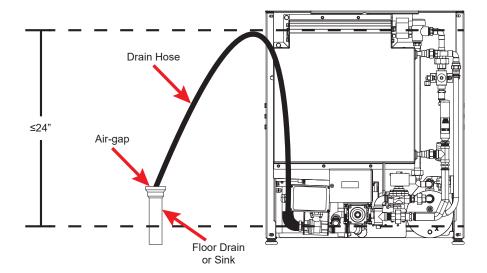
Take care not to confuse static pressure with flow pressure!

The DishStar ADA-SEER has a pressure regulating valve (PRV) installed at the factory to accommodate areas where water pressure fluctuates or is higher than the recommended pressure. This machine operates at 10 PSI flow 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 A shock absober comes standard on the DishStar ADA-SEER. This prevents water hammer or hydraulic shock-induced by the solenoid valve as it operates-from causing damage to the equipment.

CONNECTING THE **DRAIN LINE**

The machine has a pumped (pressure) drain capable of pumping waste water to a height of 24" above the machine's drain pump and is supplied with a drain hose. There must be an air-gap between/around the machine drain hose and the floor drain or sink. The floor drain or sink must be at least 1.5 times larger than the machine drain hose. If a grease trap is required by code, it should have a flow capacity of 12 GPM.



PLUMBING CHECK After installing the incoming fill line and drain hose, 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.

ELECTRICAL POWER CONNECTIONS

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.

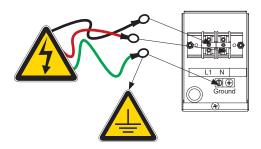




Disconnect electrical power at the breaker or disconnect switch and tag-out in accordance with procedures and codes.

The data plate is located on the left-front of the dishmachine. Refer to the data plate for machine operating requirements, machine voltage, total amperage, and serial number.

Remove the rear dress panel and set aside. Remove the terminal block box cover. Install 3/4" conduit into the hole in the bottom of the terminal block box. Route power wires and connect to terminal block. Install the grounding wire onto the lug provided. "DE-OX" or another similar anti-oxidation agent should be used on all power connections.







VOLTAGE CHECK 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 the machine if voltage is too high or too low. Advise all proper personnel of the location of the breaker and any problems. Replace the terminal block 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! Damage to materials not recommended for higher temperatures will not be covered under warranty or by the manufacturer.

TEMPERATURE SETPOINTS

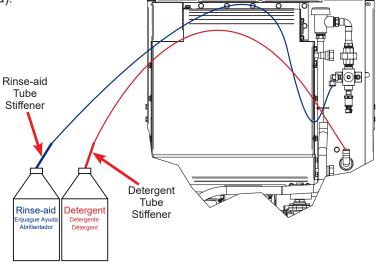
The temperature setpoints on this unit have been set at the factory. They should only be adjusted by an authorized service agent.

LEVELING A level machine 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. Since this machine is a glasswasher unit, it should be leveled as close as possible to the unit's location before it is pushed under the counter or into place.

CONNECTIONS

CAUTION! Using deionized water or other aggressive fluids will result in corrosion and failure of components and will void the warranty.

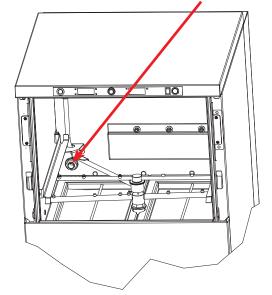
CHEMICAL This machine is supplied with detergent and rinse-aid pumps and all necessary tubing. To connect, simply locate the chemical tubes and place the ends (with tube stiffeners) in the appropriate chemical containers (red for detergent and blue for rinse-aid).



Ensure the detergent tube isn't extending past the port and into the wash chamber.



CAUTION! Detergent tube must not extend past port into the wash chamber.



PRIMING CHEMICAL FEEDER PUMPS

Chemical feeder pumps need priming when the machine is first installed or if the chemical lines have been removed and air was allowed to enter.



CAUTION! Water must be in the sump and wash tank before dispensing chemicals.

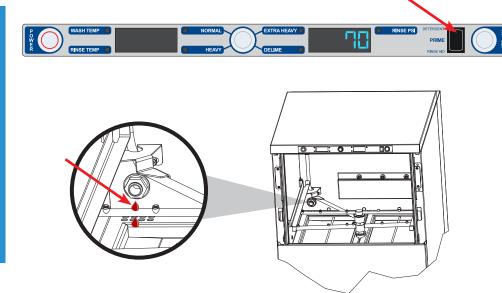


2. To prime detergent pump, press and hold prime switch toward "Detergent" until display shows timer. Priming cycle defaults to 70 seconds. Observe wash tank during priming cycle. If too much detergent, press prime button to stop priming cycle. If not enough, run priming cycle again.





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



3. To prime rinse-aid pump, press and hold prime switch toward "Rinse Aid" until display shows timer. Priming cycle defaults to 180 seconds.

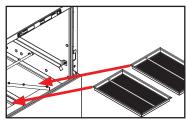


4. The amount of detergent might need adjustment depending on water quality and type of detergent. The amount of rinse-aid might need adjustment depending on water hardness and results. Refer to next section for instructions on adjusting amount of chemicals being dispensed.

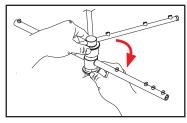


CAUTION! Preparation section must be followed before operating machine!

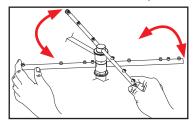
PREPARATION 1. Verify strainers are in place and clean.



2. Ensure wash and rinse arms are screwed securely in place and end-caps are tight.



3. Verify wash and rinse arms rotate freely.

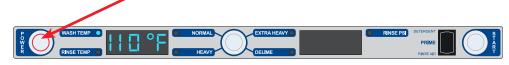


4. Confirm chemical levels are correct.

POWER UP To energize the machine, turn power on at the service breaker. The voltage should have been previously verified as correct. If not, the voltage must be verified before energizing the machine.

FILLING THE 1. Close door.

- **WASH TUB** 2. Press power button. LED ring on power button will turn red.



- 3. Machine will start filling automatically.
- 4. Wait until wash temperature on display reaches a minimum of 155 °F.

Temperature shown is the minimum required temperature.



NOTICE It might take several minutes before wash temperature is seen rising. First fill of the day, wash temperature won't rise until rinse tank reaches proper temperature.

PREPARATION

WARE Proper ware preparation helps ensure good results and fewer re-washes. If not done properly, ware might not come out clean and the efficiency of the dishmachine will be reduced. Scraps should always be removed from ware before being loaded into a rack. Pre-rinsing and pre-soaking are good ideas, especially for silverware and casserole dishes.

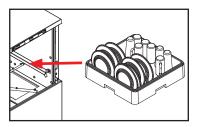
> Place cups and glasses upside-down in racks so they don't hold water during the cycle. The machine sanitizes as well as cleans. To do this, ware must be properly prepared before being placed in the machine.

OF WARE

WASHING A RACK 1. Follow Filling the Wash Tub section, ensuring temperature is at least 155 °F.



- 2. Open door completely.
- 3. Slide rack of ware into the machine.



4. Close door.

WASHING A RACK 5. Choose cycle. **OF WARE**

Normal is the default cycle. If Heavy or Extra Heavy is chosen, the machine will stay in that cycle until another is chosen.



6. Press start button and the machine will begin wash cycle. LED on power button will turn green.



7. After wash cycle is complete, the machine will automatically enter rinse cycle.

Temperature shown is the minimum required temperature.



8. After rinse cycle is complete, the machine will automatically enter sanitize and vent cycles. Wash temperature will display.



- 9. When LED ring on power button turns red, total cycle is complete.
- 10. Open door and remove rack of clean ware.
- 11. Replace with a rack of soiled ware and close door. Repeat this process.

OPERATIONAL INSPECTION

Based on use, the strainers might become clogged with soil and debris as the workday progresses. Operators should regularly inspect the strainers to ensure they have not become clogged. Clogged strainers will reduce the washing capability of the machine. Instruct operators to clean out the strainers at regular intervals or as required by workload. Do NOT beat strainers to remove soil and debris!

SHUTDOWN & CLEANING

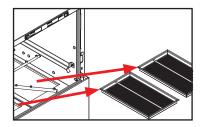
SHUTDOWN & 1. Close door and turn the machine off by pushing power button.



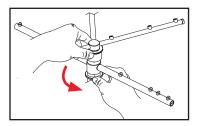
- 2. Drain valve will activate and empty the machine of water.
- 3. When draining stops, remove and clean strainers and set aside.



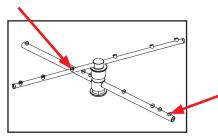
CAUTION! Do NOT beat strainers to remove soil and debris!



4. Unscrew wash and rinse arms from their manifolds.



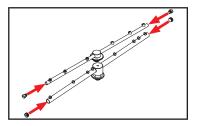
5. Verify nozzles and arms are free from obstruction. If clogged, remove end-caps, clean nozzles with a brush, and flush with fresh water.



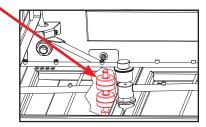
SHUTDOWN & CLEANING

Use a screwdriver to ensure end-caps are tight.

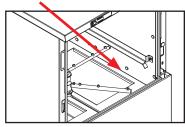
SHUTDOWN & 6. Replace end-caps and use a screwdriver to ensure they are tight.



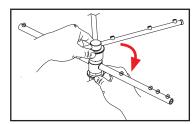
7. Ensure float (located under left strainer) is free of debris.



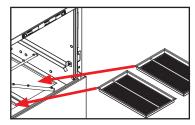
8. Spray or wipe out interior of the machine.



9. Replace wash and rinse arms.



10. Replace strainers and ensure they are laying flat.



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

OPERATION

OPERATING INSTRUCTIONS

DELIMING 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.

If the machine is equipped with an SPS and lime is becoming a frequent problem, the cartridge needs to be replaced. To order a replacement cartridge, see the Scale Prevention System page.

To delime the machine:

- 1. Remove rinse arms and place in sink with deliming solution (leave for amount of time recommended by chemical supplier).
- 2. Replace rinse arms.
- 3. If the machine is full of water, close door, press power button, and allow the machine to drain and shut-off.
- 4. Follow Filling the Wash Tub section of this manual.
- 5. Open door and add amount of deliming solution recommended by chemical supplier.
- 6. Close door and use cycle button to select Delime.



7. Press start button and the machine will begin delime cycle. Cycle timer shows on right display. LED on power button will turn green.



At any time during Delime cycle, pressing power button will drain and turn off the machine.

- 8. The machine will delime, drain, and refill. When cycle is complete right display will turn off.
- 9. Wait five minutes and inspect the machine. If the machine is not delimed, run again.
- 10. When clean, use cycle button to select Normal.



11. Press start button and run two Normal cycles to remove residual deliming solution.



12. The machine is now ready for normal operation.

DETERGENT CONTROL

Detergent usage and water hardness are two factors that greatly contribute to the machine's operating efficiency. Using the proper amount of detergent can become a source of substantial savings. A qualified water-treatment specialist can determine what is needed for maximum efficiency from the detergent.

- 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, the manufacturer recommends the installation of water treatment equipment.
- Deposited solids from hard water can cause spotting that will not be removed with a drying agent. Treated water will reduce this occurence.
- Treated water might not be suitable for use in other areas of operation and it might be necessary to install a water treatment system for the water going to the machine only. Discuss this option with a qualified water treatment specialist.
- Properly train operators on how much detergent is to be used per cycle. Meet with a water treatment specialist and chemical supplier to discuss a complete training program for operators.
- Water temperature is an important factor in ensuring the machine functions properly, and the machine's data plate details what the minimum temperatures must be for the incoming water supply, the wash tank, and the rinse tank. If minimum requirements are not met, it's possible that dishes will not be clean or sanitized.
- Instruct 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.



MODE

ENERGY SAVER After no cycle for 30 minutes, Energy Saver Mode initiates and the wash heater thermostat turns off. This conserves energy while the machine is idle. Pushing the start button at any time after Energy Saver Mode is activated turns on the wash heater thermostat, runs a cycle to reheat the wash tank, and resets the timer.

PREVENTATIVE MAINTENANCE

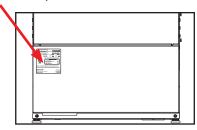
PREVENTATIVE MAINTENANCE

The manufacturer highly recommends that any maintenance and repairs not specifically discussed in this manual only be performed by qualified service personnel. Performing maintenance on the machine may void a warranty.

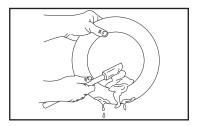
By following the operating and cleaning instructions in this manual, users should get the most efficient results from the machine. As a reminder, here are some steps to ensure the machine is used properly:



1. Ensure water temperatures match those listed on the machine data plate (on front-left of machine).



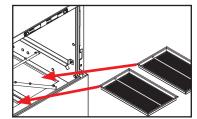
2. Remove as much soil as possible from ware before loading into racks.



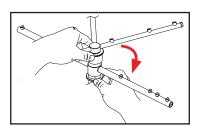
3. Ensure strainers are in place, laying flat in the tub, and free of soil and debris before operating the machine. To clean strainers, wipe out with a rag and rinse under a faucet. For stubborn debris, a toothpick can be used. Do not beat strainers on waste cans; once bent, they will not work properly.



CAUTION! Do NOT beat strainers to remove soil and debris!



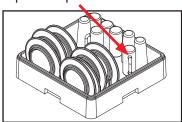
4. Ensure all wash and rinse arms are secure in the machine before operating.



PREVENTATIVE MAINTENANCE

PREVENTATIVE 5. Do not overfill racks. **MAINTENANCE**





- 7. Ensure all chemicals being injected into the machine have been verified at correct concentrations.
- 8. Clean the machine at end of every workday (see Shutdown and Cleaning section).
- 9. If hard water is present, install an SPS into water line connecting to the machine (see Water Supply Connections section).
- 10. Always contact a qualified service agency whenever a serious problem arises.
- 11. Follow all safety procedures, whether listed in this manual or put forth by local, state, or national codes/regulations.

SETPOINTS

ADJUSTING WASH TEMP SETPOINT

To access setpoints, the machine should be on and not in cycle.

I. Push and hold cycle button for a minimum of six seconds. Wash temperature shows on left display and will flash on and off.



If there is no activity (button presses) for 30 seconds, display will exit setpoints mode without saving changes.

 Once button is released, press prime button (upper rocker to increase and lower rocker to decrease). This changes wash temperature one degree at a time to a maximum of 170 °F or a minimum of 150 °F.



3. Once desired temperature is selected, press and hold cycle button for a minimum of three seconds and no more than six seconds (after three seconds wash temperature will stop flashing). Release cycle button to accept and move to next setting (rinse temperature).



ADJUSTING 1. RINSE TEMP SETPOINT

. Once setting changes to rinse temperature, rinse temperature shows on left display and will flash on and off.



Press prime button (upper rocker to increase and lower rocker to decrease).
 This changes rinse temperature one degree at a time to a maximum of 192 °F or a minimum of 180 °F.

If there is no activity (button presses) for 30 seconds, display will exit setpoints mode without saving changes.

WASH TEMP	NORMAL EXTRA HEAVY HEAVY DELIME	RINSE PSI DETERGENT PRIME RINSE AID	START

TROUBLESHOOTING

ADJUSTING 3. RINSE TEMP SETPOINT

Once desired temperature is selected, press and hold cycle button for a
minimum of three seconds and no more than six seconds (after three seconds
rinse temperature will stop flashing). Release cycle button to accept and move
to next setting (temperature scale).



CHANGING TEMPERATURE SCALE

CHANGING 1. Once setting changes to temperature scale, °F or °C will flash on and off.



If there is no activity (button presses) for 30 seconds, display will exit setpoints mode without saving changes.

2. Push prime button up or down to toggle between °F and °C on left display, right display will be blank.



3. Once desired temperature scale is selected, press and hold cycle button for a minimum of three seconds and no more than six seconds (after three seconds temperature scale will stop flashing). Release cycle button to accept and move to next setting (back to wash temperature).



4. To exit setpoints at any time, hold cycle button for a minimum of six seconds. Display will stop flashing and return to wash temperature. The machine is ready to operate.



FAULT CODES

DISPLAY SHOWS	POSSIBLE CAUSES	REMEDY	
		1. Verify incoming water pressure is 10 ± 2 PSI.	
	1. Low or no water pressure.	Verify that fill relay is supplying voltage to fill solenoid. Replace faulty component.	
	2. Faulty inlet valve or fill relay.		
"E1 Contine peeded."	3. Contactor to booster heater not turning off.	Check for welded contacts. Verify that output from IO module turns off when above the set temperature.	
"F1 Service needed," "No water in Booster"	4. Faulty temperature input (P12) on IO module.	4. Substitute a 1.2 k Ω resistor for T3, and verify that booster heater turns off. If not, replace IO module.	
	5. Faulty temperature probe (T3).	5. Verify that the booster-probe resistance is correct with	
	6. Faulty float switch allows heaters to operate with no water in tub.	respect to temperature (see table on pg. 24). If not, replace T3.	
		6. Replace float switch.	
	Contactor to booster heater not turning off.	Check for welded contacts. Verify that output from IO module turns off when above the set temperature.	
"F2 Service needed," "Check booster	2. Faulty temperature input (P12) on IO module.	2. Substitute a 1.2 k Ω resistor for T3, and verify that booster heater turns off. If not, replace IO module.	
thermostat"	3. Faulty temperature probe (T3).	3. Verify that the booster probe resistance is correct with respect to temperature (see table on pg. 24). If not, replace T3.	
	Malfunction of fill solenoid or fill relay.	Replace faulty component.	
"F3 No water in wash tank," "Check inlet	2. Door is open, which inhibits fill mode.	Close door to activate door switch.	
water and door"	3. Faulty door switch.	3. Replace or adjust door switch.	
"F4 Service needed,"	Incoming power not properly connected.	Check connections to heater.	
"Check incoming power"	2. L3 is missing (3-phase machines only).	Verify that L3 is present and connected properly.	
		1. Substitute a 1.8 k Ω resistor for T3, and verify that booster heater turns on. If not, replace IO module.	
	Faulty temperature input (P12) on IO module.	2. Verify that T3 resistance is consistent with the table on pg. 24. If not, replace T3.	
"F5 Service needed," "Check booster	2. Faulty temperature probe (T3).	3. Replace high-limit switch.	
thermostat and high limit"	3. Faulty high-limit switch.	4. Check booster heater for proper resistance. Replace if	
	4. Faulty booster heater.	incorrect.	
	Booster-heater contactor not energizing.	5. Verify that drive voltage to contactor coil is present during a call for heat and that contactor closes. If voltage is present, replace contactor. If voltage is not present, check wiring.	

TROUBLESHOOTING

FAULT CODES

DISPLAY SHOWS	POSSIBLE CAUSES	REMEDY
	Low or no water pressure. Faulty inlet valve or fill relay.	Verify incoming water pressure is 10 ± 2 PSI. Verify that fill relay is supplying voltage to fill solenoid. Replace faulty component.
"F6 Service needed," "No water in wash tank"	 3. Contactor to wash heater not turning off. 4. Faulty temperature input (T1) on IO module. 5. Faulty temperature probe (T1). 6. Faulty float switch allows heaters to operate with no water in tub. 	 Check for welded contacts. Verify that output from IO module turns off when above the set temperature. Substitute a 1.2 kΩ resistor for T1, and verify that wash heater turns off. If not, replace IO module. Verify that T1 resistance is correct with respect to temperature (see table on pg. 24). If not, replace T1. Replace float switch.
"F7 Service needed," "Check wash tank thermostat"	 Contactor to wash heater not turning off. Faulty temperature input (P10) on IO module. Faulty temperature probe (T1). 	 Check for welded contacts. Verify that output from IO module turns off when above the set temperature. Substitute a 1.2 kΩ resistor for T1, and verify that wash heater turns off. If not, replace IO module. Verify that T1 resistance is correct with respect to temperature (see table on pg. 24). If not, replace T1.
"F8 No water in wash tank," "Check inlet water and door"	 Malfunction of fill solenoid or fill relay. Door is open, which inhibits fill mode. Faulty door switch. 	Replace faulty solenoid or fill relay. Close door to activate door switch. Replace or adjust door switch.
"F9 Service needed," "Check incoming power"	 Incoming power not properly connected. L3 is missing (3-phase machines only). 	Check connections to heater. Verify that L3 is present and connected properly.
"F10 Service needed," "Check wash tank thermostat and high limit"	 Faulty temperature input (T1) on I/O module. Faulty temperature probe (T1). Faulty high-limit switch. Faulty wash heater. Wash-heater contactor not energizing. 	 Substitute a 1.8 kΩ resistor for T1, and verify that wash heater turns on. If not, replace I/O module. Verify that T1 resistance is correct with respect to temperature (see table on pg. 24). If not, replace T1. Replace high-limit switch. Check wash heater for proper resistance. Replace if incorrect. Verify that drive voltage to contactor coil is present during a call for heat and that contactor closes. If voltage present, replace contactor. If voltage not present, check wiring.
F11 Service needed –check wash tank thermostat	Faulty temperature probe (T1).	Replace probe that connects to P10.

FAULT CODES

DISPLAY SHOWS	POSSIBLE CAUSES	REMEDY
"F12 Service needed," "Check booster thermostat"	Faulty temperature probe (T3).	Replace probe that connects to P13.
"F13 Communication error," "Check 6-pin cable"	1. Loose connection in 6-pin cable between display board and I/O module. 2. Faulty 6-pin cable between display board and I/O module. 3. Faulty communication port on I/O module or display board.	1. Fully disconnect 6-pin cable at each end, and reconnect each end until a click is heard. 2. Inspect for broken wire or unseated terminal by gently pulling on each wire at each end of the cable. Reseat any loose terminals by inserting it fully into the housing using long-nosed pliers. Replace cable if broken wire is found. 3. Temporarily substitute a verified good display board, and check if F13 message recurs. If so, repeat substitution with a good I/O module.
"F14 Service needed," "Check incoming water pressure or pressure switch"	Low or no water pressure. Faulty pressure switch. Faulty fill valve or fill valve not receiving power.	Verify correct PSI. Replace pressure switch. Check continuity and replace if faulty.
"F15 Sanisure violation"	Faulty booster heater. Faulty heater contactor.	Check amperage on heater. Check voltage on contactor coil and L1 and L2 legs.
"F16 LLC violation"	Faulty or corroded probe.	Clean or replace probe.
"F17 Excessive inlet temp"	Inlet water supply too hot.	Ensure inlet water supply is at required temperature.

RESISTANCE-TO-TEMPERATURE VALUES

°F
69.8
75.2
80.6
89.6
140.0
150.8
159.8
179.6
185.0
190.4
199.4
212.0

TROUBLESHOOTING

TROUBLESHOOTING





WARNING! Inspection, testing, and repair of electrical equipment should only be performed by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. Exercise extreme caution at all times. If test points are not easily accessible, disconnect power, attach test equipment, and reapply power to test. When replacing electrical parts, disconnect power at circuit breaker.

OBSERVATION	POSSIBLE CAUSE	REMEDY
Water overflow	1. Clogged drain.	1. Remove obstruction.
from bottom of		
door.	2. Machine not level.	Level machine or increase height to the front.
	3. Excessive inlet pressure.	Install pressure regulating valve or adjust if one is present. Ensure flow meets data plate specification.
	4. Detergent foaming.	4. Reduce detergent quantity.
	5. Wash or rinse arm end-cap missing.	5. Replace end-cap.
Wash motor doesn't	1. Loose or broken wires.	Reconnect or replace wires in motor.
operate on wash.	2. Defective start button.	2. Adjust button or replace.
wasii.	3. Defective motor contactor.	3. Replace.
Little or no water	1. Limed-up rinse heads or piping.	1. Delime rinse heads.
coming through the rinse assemblies.	2. Low water pressure.	Increase pipe size to machine. Adjust pressure regulating valve.
Rinse water runs continuously	Defective plunger in solenoid valve.	1. Replace plunger.
with breaker turned off.	2. Defective diaphragm in solenoid valve.	2. Replace diaphragm.

TROUBLESHOOTING

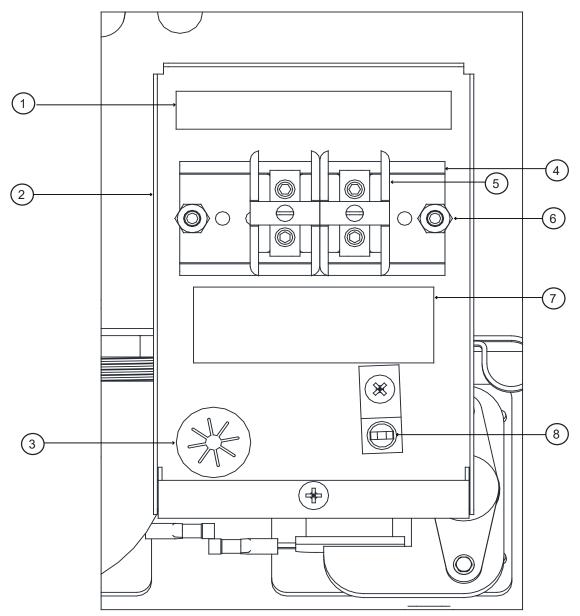
TROUBLESHOOTING





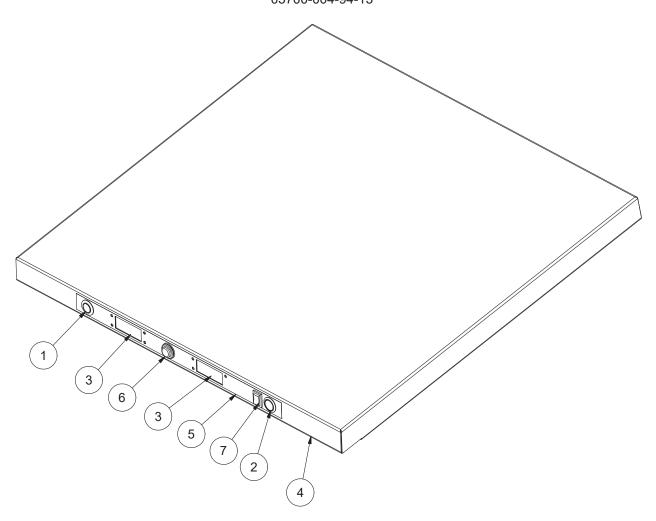
WARNING! Inspection, testing, and repair of electrical equipment should only be performed by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. Exercise extreme caution at all times. If test points are not easily accessible, disconnect power, attach test equipment, and reapply power to test. When replacing electrical parts, disconnect power at circuit breaker.

OBSERVATION	POSSIBLE CAUSE	REMEDY	
Wash	1. Water level low.	Check water level. If low, run new fill cycle.	
temperature not within range.	2. RTD setpoint too low.	2. Adjust setpoint.	
	3. Defective RTD.	3. Replace RTD.	
	4. Wash heater defective.	4. Replace heater element.	
	5. Defective heater contactor.	5. Replace contactor.	
Rinse	1. RTD is defective.	Replace if necessary.	
temperature not within range.	Incoming rinse water does not meet minimum temperature on machine data plate.	2. Adjust as required.	
	3. Rinse heater damaged.	3. Check amperage. Replace if necessary.	
	4. Setpoint screens set low.	4. Adjust rinse tank setpoint.	
	5. Defective heater contactor.	5. Replace contactor.	
Machine doesn't drain	1. Drain clogged.	1. Remove obstruction.	
when power button is	2. Defective drain valve.	2. Replace drain valve.	
pressed.	3. Defective wash pump.	3. Replace wash pump.	
	4. Defective motor contactor.	4. Replace contactor.	
	5. Defective timer.	5. Replace timer.	
Incorrect water pressure	1. Water turned off.	1. Turn water on.	
displayed during Fill or	2. Transducer disconnected.	2. Verify wiring.	
Rinse.	3. Pressure transducer defective.	3. Replace pressure transducer.	



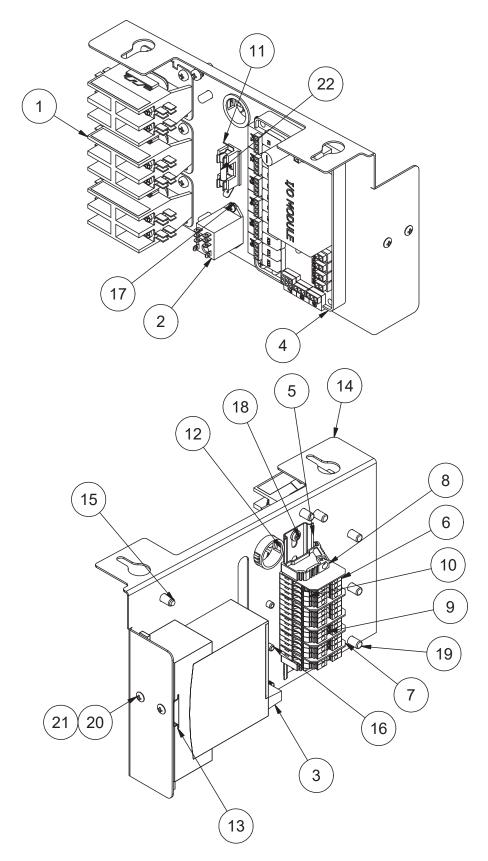
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Power Connection Decal	09905-011-47-35
2	1	Terminal Block Box	05700-004-36-47
	1	Terminal Box Cover (not shown)	05700-003-27-70
3	1	Strain Relief	05975-003-37-56
4	1	Terminal Block Track	05700-000-43-60
5	2	Terminal Block	05940-500-02-19
6	2	Locknut, 10-24 Hex with Nylon Insert	05310-373-01-00
7	1	Decal, L1, N	09905-011-62-72
8	1	Ground Lug	05940-200-76-00

Complete Top Panel Assembly 05700-004-94-13



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Power Button	05930-004-85-60
2	1	Start Button	05930-004-96-58
3	2	LED Display	05945-004-85-61
4	1	Top Panel	05700-004-94-11
5	1	Top Control Decal	09905-004-94-08
6	1	Cycle Button	05700-003-14-91
7	1	Prime Switch	05930-004-97-47

Complete Electrical Panel Assembly 05700-005-00-22



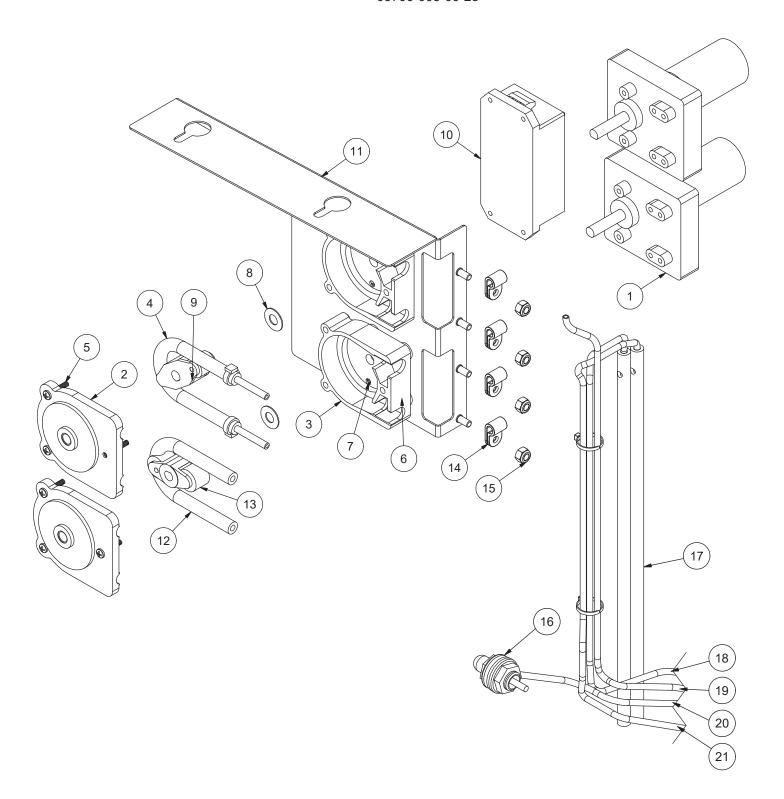
PARTS

ELECTRICAL PANEL

ITEM	QTY	DESCRIPTION	PART NUMBER
1	3	Contactor, 30 A 240 V	05945-002-74-20
2	1	Relay	05945-111-89-75
3	1	Soft Start	05945-004-55-75
4	1	I/O Module	05945-004-47-81
5	1	Dinrail, 5 3/4"	05700-021-72-75
6	16	Terminal Block	05999-004-90-68
7	5	Separator, Terminal Block	05999-004-90-67
8	2	End Bracket, Terminal	05999-004-90-66
9	2	Jumper Bars, 3-pole	05999-004-90-71
10	15	Tag, Marking	05999-004-90-72
11	1	Holder, 6-pole Fuse	05920-002-42-13
12	1	Bushing, Snap, 1 1/8"	05975-210-08-00
13	1	Dinrail, 2"	05700-002-36-09
14	1	Panel, Electrical	05700-004-97-31
15	2	Screw, 10-32 x 1"	05305-002-19-42
16	3	Screw, 6-32 x 3/8"	05305-002-25-91
17	3	Nut, Plated	05340-118-04-00
18	9	Screw, 10-32 x 1/2"	05305-002-80-88
19	11	Fastener	05340-111-58-10
20	2	Screw, 10-32 x 1/4"	05305-173-01-00
21	2	Locknut, 10-32 with Nylon Insert	05310-004-28-70
22	1	Fuse, Time-delay, 8 A, 250 V	05920-004-85-54

CHEMICAL FEEDER PUMP ASSEMBLY

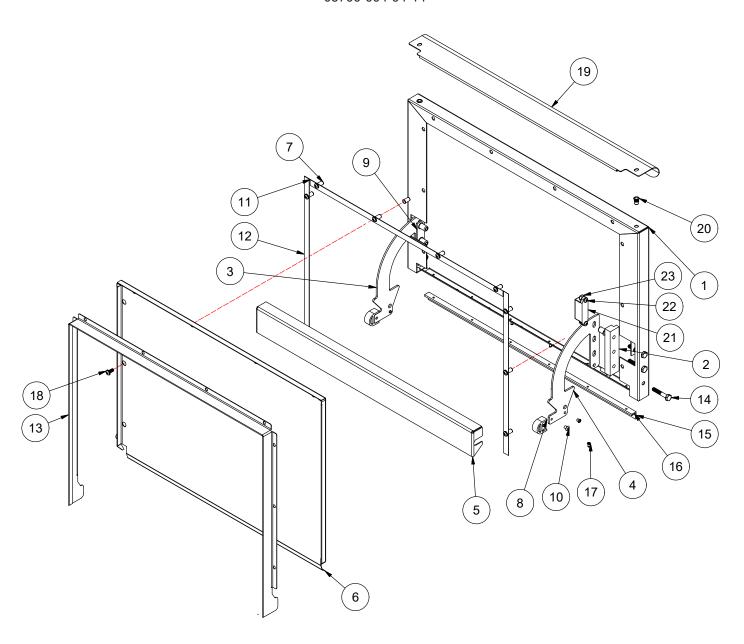
Complete Chemical Feeder Pump Assembly 05700-005-00-23



CHEMICAL FEEDER PUMP ASSEMBLY

ITEM	QTY	DESCRIPTION	PART NUMBER
1	2	Motor, Peri-pump, 14 RPM	04320-011-63-33
2	2	Pump Cover, Clear	04320-004-59-45
3	2	Pump Housing, Clear	04320-004-59-41
4	1	Tube, 8"	04320-004-59-44
5	6	Screw, 6-32 x 3/4"	05305-011-37-05
6	4	Screw, 8-32 x 1/2"	05305-011-37-06
7	4	Screw, 8-32 x 3/8"	05305-011-37-07
8	2	Washer, Thrust	04320-004-75-85
9	1	Roller, Red Dot	04320-111-36-70
10	1	Power Supply	05950-004-81-79
11	1	Panel, Peri-pump	05700-004-99-72
12	1	Tube, 8"	05700-003-22-89
13	1	Roller, Purple Dot	04320-004-59-43
14	4	P-clamp, 1/4" ID	05975-002-61-42
15	4	Locknut, 10-24 Hex with Nylon Insert	05310-373-01-00
16	1	Chemical Port Assembly	05700-004-30-86
17	2	Stiffener, Chemical Tube	05700-002-66-49
18	1	Tubing, Clear, 1/8" x 48"	05700-002-76-15
19	1	Tubing, Clear, 1/8" x 120"	05700-002-76-14
20	1	Tubing, Red, 1/4" x 80"	05700-011-37-14
21	1	Tubing, Red, 1/4" x 120"	05700-011-37-15

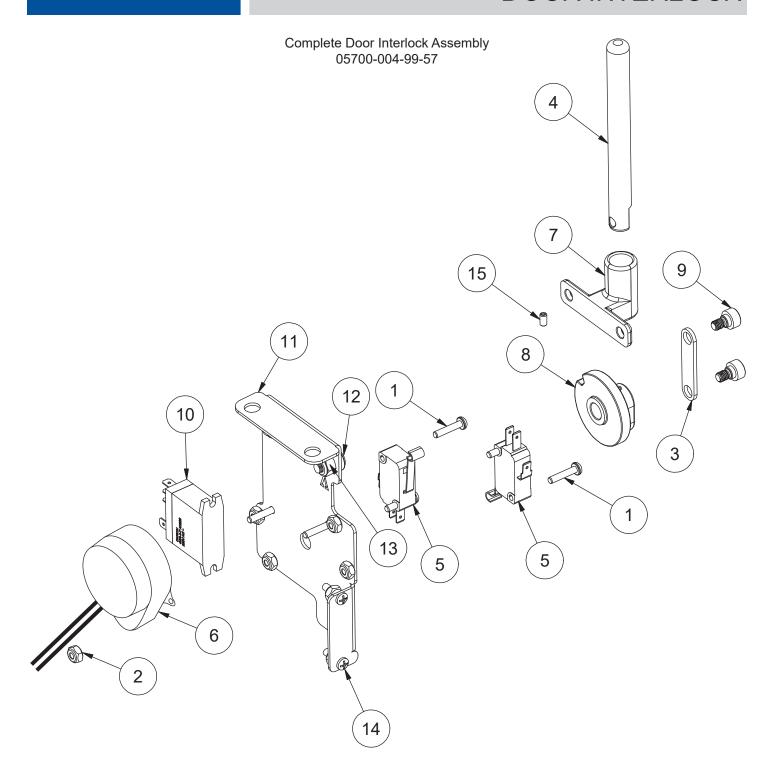
Complete Door Assembly 05700-004-94-14





ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Outer Door Weldment	05700-004-94-15
2	2	Spacer, Hinge	05700-003-33-42
3	1	Hinge, Right	05700-003-32-72
4	1	Hinge, Left	05700-003-32-71
5	1	Baffle, Door	05700-003-33-38
6	1	Inner Door	05700-004-94-18
7	10	Fastener, 10-32	05340-111-58-10
8	2	Stop, Door Hinge	05700-003-32-55
9	2	Retaining Plate	05700-011-44-37
10	2	Screw, 10-32 x 1/4"	05305-173-01-00
11	1	Gasket, Door 20"	05330-003-58-35
12	2	Gasket, Door 14 1/2"	05700-004-54-09
13	1	Channel, Door Seal	05700-004-54-11
14	6	Screw, 1/4-20 x 1 1/2" Hex Head	05305-274-23-00
15	1	Gasket, Door L	05330-004-36-05
16	1	Gasket Clamp	05700-004-36-56
17	6	Pop Rivet, 1/8" x 3/8"	05320-003-06-98
18	10	Screw, 10-32 x 1/2" with Washer	05305-002-32-37
19	1	Handle, Door	05700-004-94-17
20	2	Nut, Rivet, 10-24	05310-004-23-97
21	1	Magnet, Door	05930-002-88-42
22	2	Screw, 10-32 x 1/2"	05305-011-44-52
23	2	Locknut, 10-32 with Nylon Insert	05310-373-02-00

DOOR INTERLOCK



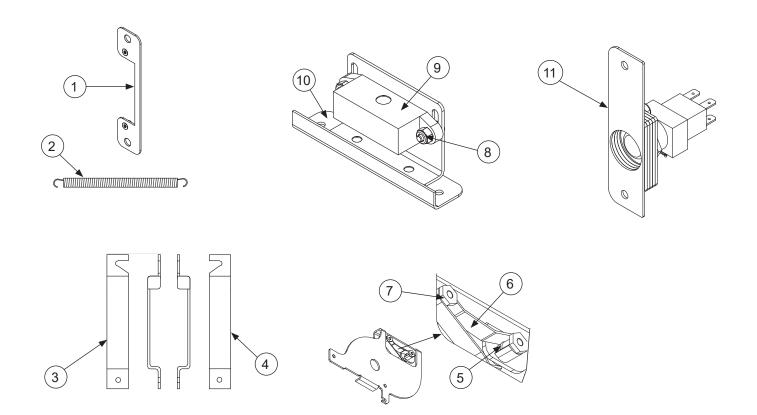
DOOR INTERLOCK

ITEM	QTY	DESCRIPTION	PART NUMBER
1	6	Screw, 6-32 x 5/8"	05305-011-39-85
2	8	Locknut, 6-32 with Nylon Insert	05310-373-03-00
3	1	Link, Interlock Connector	05700-004-71-37
4	1	Pin, Interlock	05700-004-71-49
5	2	Switch, Interlock	05930-004-71-36
6	1	Gear Motor	06105-004-70-04
7	1	Interlock Guide	05700-004-71-50
8	1	Interlock Cam	05700-004-71-39
9	2	Screw, Shoulder, 10-32 x 1/4"	05305-004-71-40
10	1	Relay, 10 A, 220 V AC	05945-004-84-93
11	1	Bracket, Interlock	05700-004-99-64
12	2	Screw, 10-32 x 1/2"	05305-011-39-36
13	2	Locknut, 10-32 with Nylon Insert	05310-373-02-00
14	2	Screw, 6-32 x 1/2"	05305-003-41-00
15	1	Set Screw, 6-32 x 1/4"	05305-004-71-42
16*	1	Harness, Door Interlock, Relay, 1	05700-004-99-65
17*	1	Harness, Door Interlock, Relay, 2	05700-004-99-66
18*	1	Harness, Door Interlock, Relay, 3	05700-004-99-67
19*	1	Harness, Door Interlock, Relay, 4	05700-004-99-68
20*	1	Harness, Door Interlock, Motor, 1	05700-004-99-69
21*	1	Harness, Door Interlock, Motor, 2	05700-004-99-70

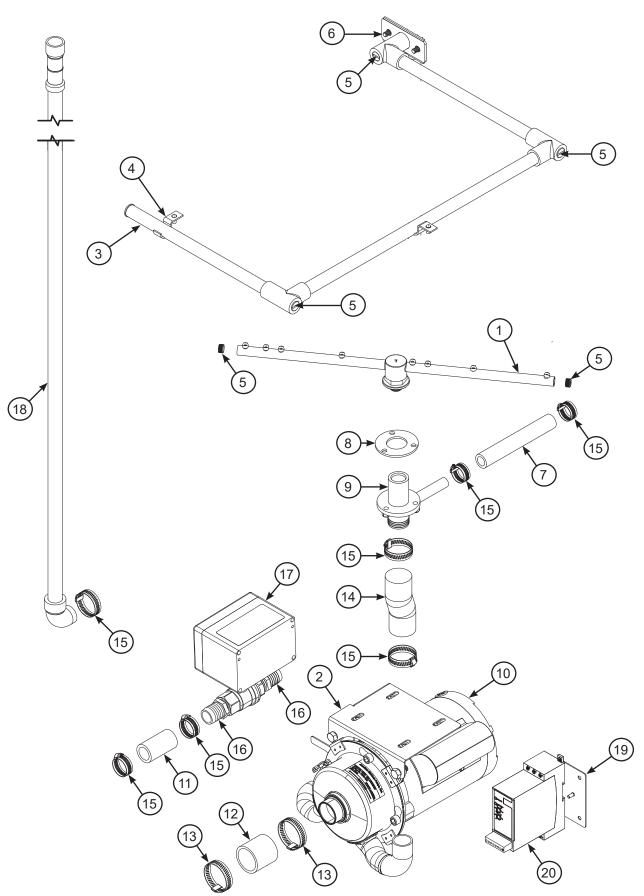
^{*}Harnesses not shown for clarity.

MISCELLANEOUS DOOR COMPONENTS

Parts are not shown to scale in relation to each other.

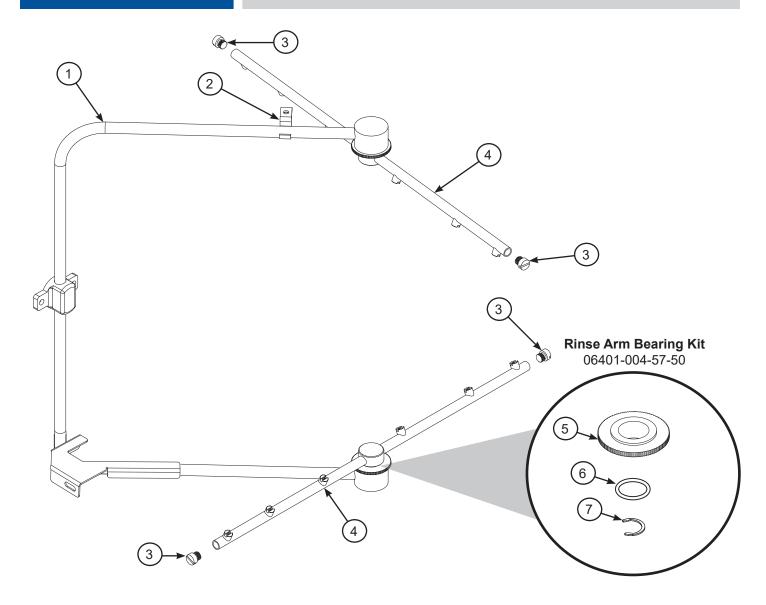


ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Switch Mounting Plate Assembly	05700-003-33-54
2	2	Door Spring	05700-003-32-85
3	1	Cover, Left Hinge Weldment	05700-004-36-80
4	1	Cover, Right Hinge Weldment	05700-004-36-81
		Hinges secured with Locknut, 1/4-20 Hex with Nylon Insert	05310-374-01-00
5	2	O-ring	05330-003-32-34
6	2	Latch Spring	05340-004-67-82
7	4	Latch Nut	05700-003-32-33
8	2 2	Locknut, 6-32 Hex with Nylon Insert Screw, 6-32 x 1/4"	05310-373-03-00 05305-171-01-00
9	1	Door Switch	05930-003-31-44
10	1 1	Door Switch Bracket Door Switch & Bracket Assembly	05700-003-31-43 05700-003-32-21
11	1	Complete Switch Mount Assembly	06401-004-47-76



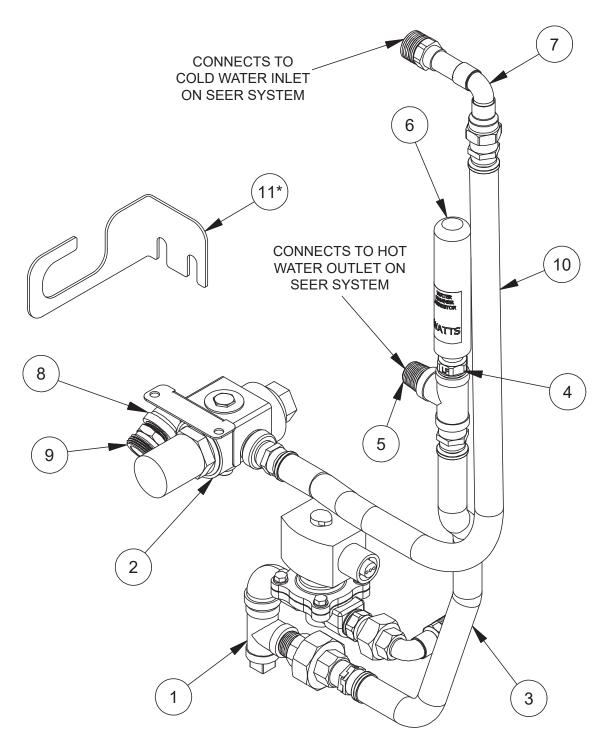
WASH & MOTOR

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Wash Arm Assembly	05700-021-39-23
2	1	Motor Support	05700-004-53-96
3	1	Wash Halo	05700-004-42-21
4	2	Pipe Clamp	05700-000-35-06
5	5	Wash Arm End-cap	05700-003-31-59
6	1	Gasket, Manifold	05330-003-75-91
7	1	Hose, 5/8" ID, Blue Silicone	05700-004-53-99
8	1	Gasket, Wash Hub	05330-002-34-77
9	1	Wash Hub	05700-004-43-04
10	1	Pump and Motor	06105-004-50-75
11	1	Hose, 7/8" ID x 8", Blue Silicone	05700-004-43-76
12	1	Hose, Bottom Manifold Pump	05700-001-22-92
13	2	Clamp, 1 1/16" to 2"	04730-719-18-00
14	1	Hose, 1 1/4" ID x 4", Blue Silicone	05700-004-54-00
15	7	Clamp, 13/16" to 1 1/2"	04730-719-06-09
16	2	Hosebarb, 1 3/4"	04730-011-65-86
17	1	Drain Valve Assembly	04730-003-33-64
18	1	Drain Hose	04720-004-32-00
19	1	Bracket, Soft Starter	05700-004-55-94
20	1	Soft Starter	05945-004-55-75



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Complete Rinse Manifold Assembly	05700-004-52-44
2	1	Pipe Clamp	05700-000-35-06
3	4	Rinse Arm End-cap (includes o-ring)	05700-004-34-62
1	2	Complete Rinse Arm Assembly	05700-004-39-39
4	2	Rinse Arm	05700-004-38-75
5	2	Bearing Assembly, Rinse Arm	05700-004-54-71
6	2	O-ring (included in item #5)	05330-002-60-69
7	2	Retaining Ring	05340-112-01-11

Complete SEER Plumbing Assembly 05700-004-63-78

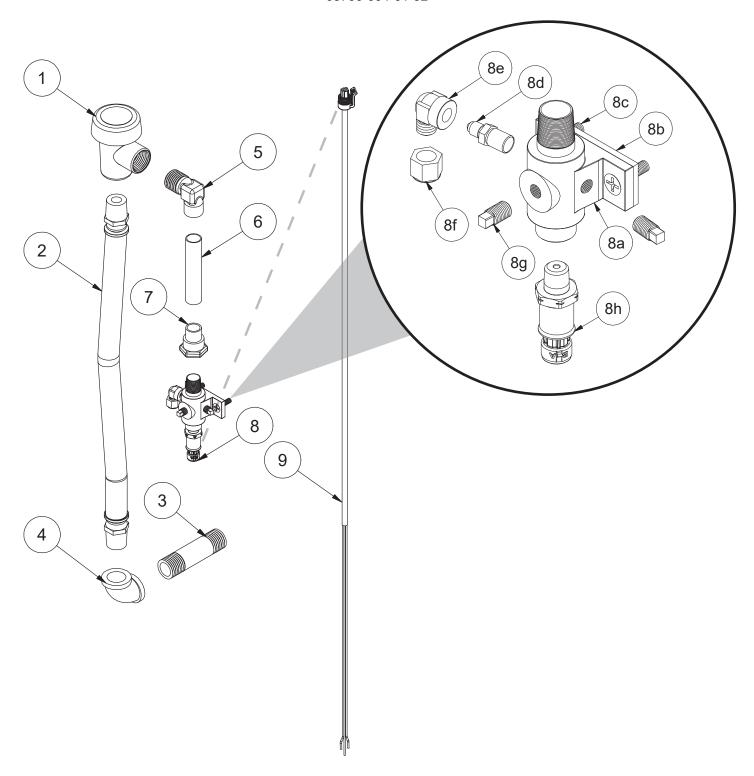


*Item not included in part number of complete SEER plumbing assembly and must be ordered separately.

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Inlet Plumbing Assembly	05700-004-53-98
2	1	Pressure Regulating Valve Assembly, Dial-set	05700-004-94-35
3	1	Booster Tank Discharge Assembly	05700-004-55-97
4	1	Tee, 1/2" Brass	04730-211-27-00
5	1	Nipple, 1/2" Close Brass	04730-207-15-00
6	1	Water Hammer Arrestor, 1/2"	04730-004-58-56
7	1	SEER Inlet Plumbing Assembly	05700-004-60-46
8	1	Elbow, 90-degree, 1/2" Street Brass	04730-206-08-00
9	1	Adapter, Double Male, 3/4-11.5 x 1/2-14	04720-004-51-55
10	1	Inlet Hose Assembly	05700-004-71-03
11*	1	Bracket, Plumbing Support	05700-004-56-19

^{*}Item not included in part number of complete SEER plumbing assembly and must be ordered separately.

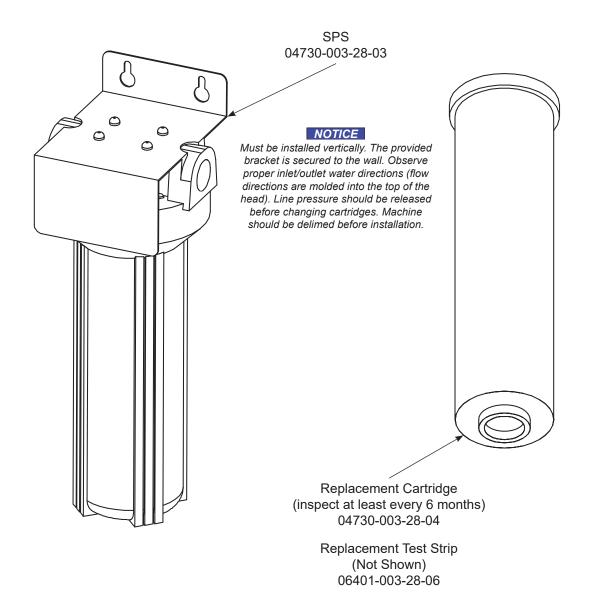
Complete Rinse Plumbing Assembly 05700-004-61-32

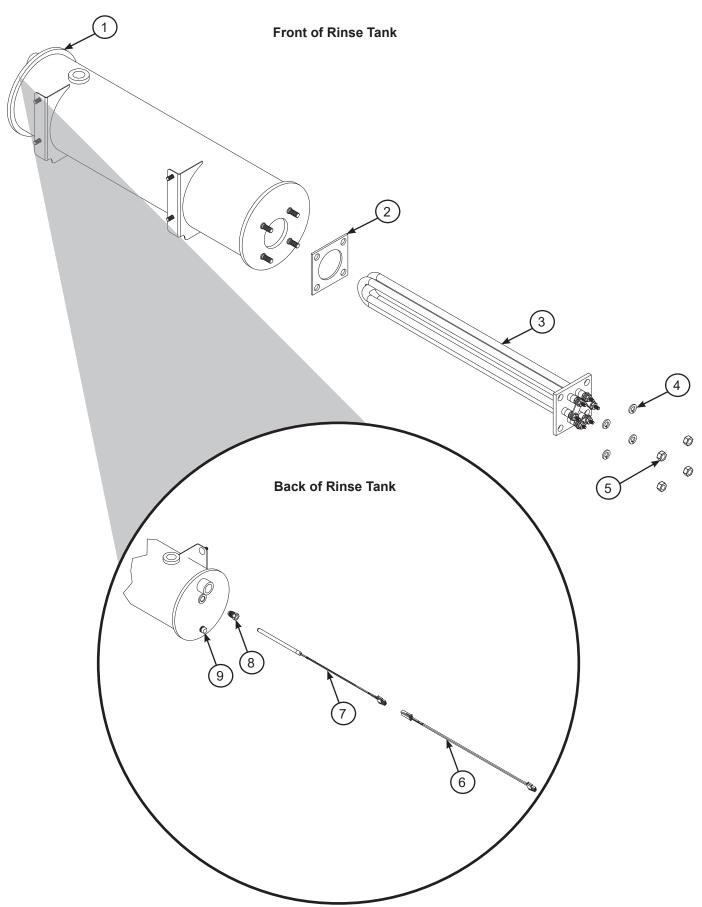


RINSE PLUMBING

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Vacuum Breaker, 1/2" Brass	04820-003-06-13
2	1	Hose, 1/2" ID, 14"	05700-004-99-89
3	1	Nipple, 1/2" x 3", Brass	04730-004-20-10
4	1	Elbow, 1/2", 90-degree, Brass	04730-011-42-96
5	1	Elbow, 90-degree	04730-406-32-01
6	1	Pipe, 3", Copper	05700-001-05-21
7	1	Adapter, 1/2"	04730-002-64-68
8 8a 8b 8c 8d 8e 8f 8g	1 1 2 1 1 1 1 1 2 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1	Complete Rinse Injector Assembly Rinse Injector Only Gasket, Rinse Injector Screw, 1/4-20 x 1" Check Valve Fitting, Outlet Elbow Nut, Tube, 1/8" Plug, 1/8" Brass	05700-004-43-86 09515-004-22-73 05330-003-75-91 05305-011-81-58 04820-111-51-14 04820-111-51-18 04730-011-59-45 04730-209-07-37
8h	1	Pressure Transducer	05945-004-17-01
9	1	Harness, Transducer	05700-004-33-62

SCALE PREVENTION SYSTEM (SPS) OPTION

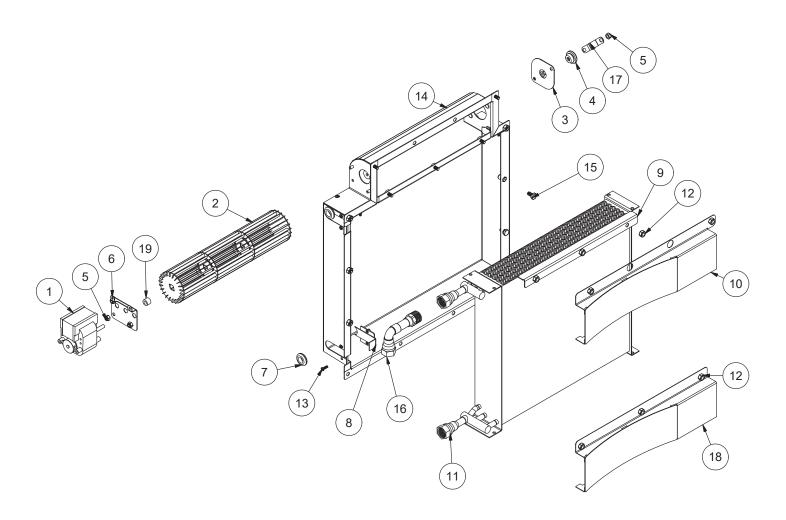




RINSE TANK

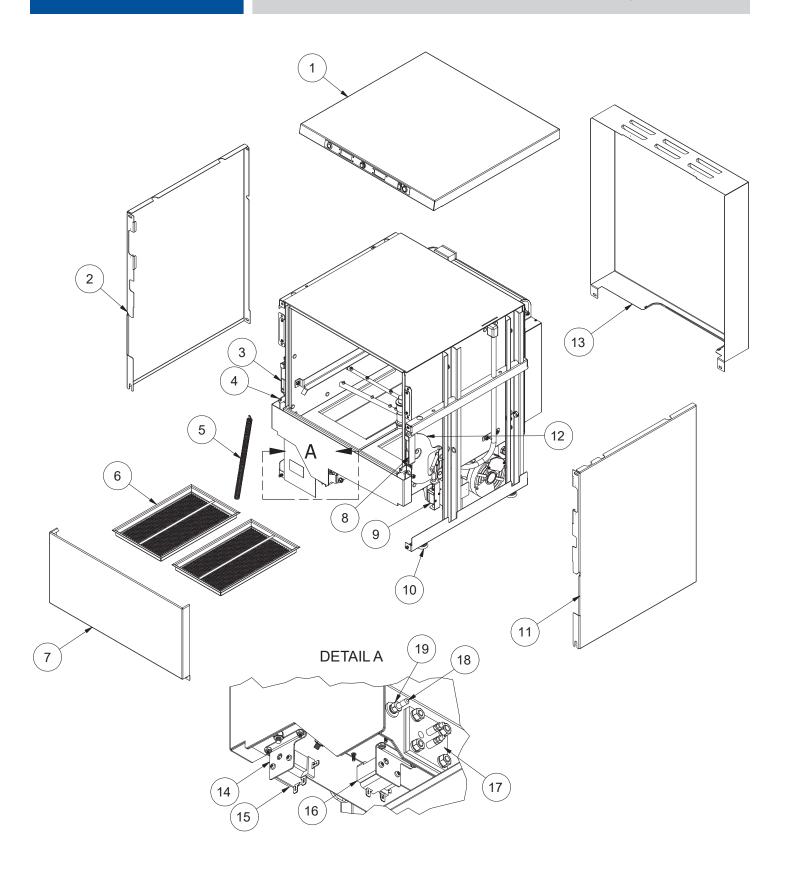
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Rinse Tank	05700-004-41-88
2	1	Heater Gasket	05330-011-47-79
3	1	Rinse Heater, 5.45 kW, 208-230 V	04540-004-45-12
4	4	Lockwasher, Split 5/16"	05311-275-01-00
5	4	Nut, Hex 5/16-18	05310-275-01-00
6	1	Cable, Temperature Probe	05700-004-33-23
7	1	Thermistor Probe, 4" with 18" Cable	06685-004-34-58
8	1	Fitting, 1/4", Brass Nut/Sleeve	05310-924-02-05
9	1	Plug, 1/4" Brass	04730-209-01-00
10	1	Thermostat, Rinse Tank High-limit (Not Shown)	05930-004-33-12

Complete SEER System Assembly 05700-004-63-06



SEER SYSTEM

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Motor, Fan	05999-004-63-31
2	1	Wheel, Blower	05999-004-59-13
3	1	Bracket, Bearing Boot	05700-004-50-94
4	1	Bushing and Housing Assembly	03120-004-50-88
5	5	Locknut, 10-24 Hex with Nylon Insert	05310-373-01-00
6	1	Bracket, Motor Adjustment	05700-004-58-81
7	2	Grommet, Push-in, 3/4" ID	05330-004-59-14
8	2	Bracket, Enclosure Filler Plate	05700-004-58-93
9	1	Diversion Plate	05700-004-59-04
10	1	Upper Shield	05700-004-58-98
11	1	Heat Exchanger, 3/8" Tubes	04420-004-58-96
12	12	Locknut, 1/4-20 Hex with Nylon Insert	05310-374-01-00
13	8	Screw, 6-32 x 1/2"	05305-004-23-63
14	1	Condenser Assembly	05700-004-58-94
15	2	Bolt, 1/4-20 x 1/2"	05305-274-02-00
16	1	Plumbing, SEER Inlet	05700-004-60-46
17	1	Bracket, Bearing Hard Stop	05700-004-67-53
18	1	Lower Shield	05700-004-63-04
19	1	Spacer, 1/2" OD 1/4" ID Nylon, Black	03120-004-95-13

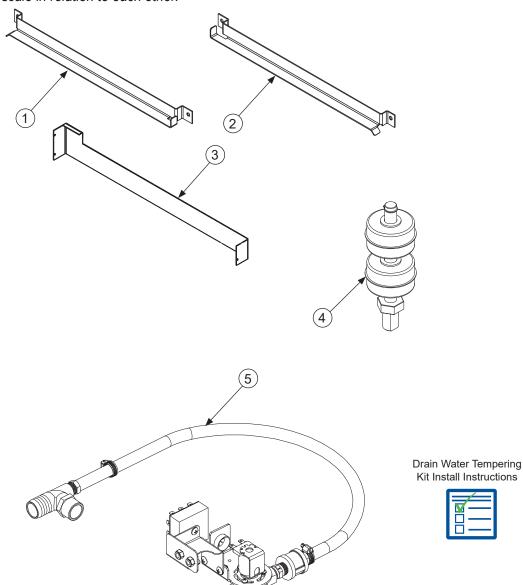


TUB & FRAME

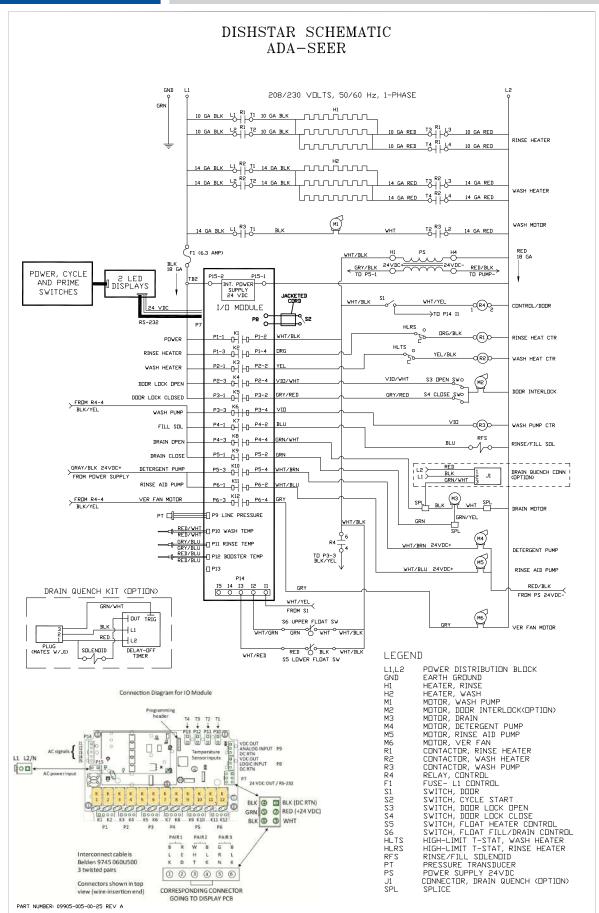
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Panel,Top	05700-004-94-13
2	1	Shroud, Left	05700-004-55-00
3	1	Hinge Cover, Left	05700-002-18-41
4	1	Hinge Stop, Left	05700-003-32-61
5	2	Door Spring	05700-003-32-85
6	2	Strainer	05700-004-09-43
7	1	Panel, Kick	05700-004-94-07
8	1	Hinge Cover, Right	05700-004-22-66
9	1	Door Interlock Assembly	See Door Interlock page.
10	4	Foot, Adjustable	05340-002-71-71
11	1	Shroud, Right	05700-004-52-49
12	1	Hinge Stop, Right	05700-003-32-60
13	1 1	Panel, Rear Dress Edge Guard, Rear Panel (Not Shown)	05700-004-58-13 05330-002-83-04
14	2	Bracket, High-limit	05700-004-36-37
15	1	Thermostat, High-limit	05930-004-33-12
16	1	Thermostat, High-limit	05930-004-33-15
17	1 1	Wash Heater, 4 kW Gasket, Wash Heater (Not Shown)	04540-003-99-44 05330-011-61-34
18	1	Thermistor Probe, 4" with 18" Cable	06685-004-34-58
19	2	Fitting, Brass Sleeve	05310-924-02-05

MISCELLANEOUS PARTS

Parts are not shown to scale in relation to each other.



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Rail, Left Rack	05700-031-37-88
2	1	Rail, Right Rack	05700-031-37-88
3	1	Splash Shield	05700-003-33-51
4	1	Dual Float Switch	06680-004-48-53
5	1	Drain Water Tempering Kit	06401-004-59-11





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