INSTALLATION, OPERATION & SERVICE MANUAL

FOR JACKSON MODELS:





Jackson WWS, INC. P.O. BOX 1060 BARBOURVILLE, KY. 40906 PHONE (606) 523-9795 FAX (606) 523-9196 www.jacksonwws.com

March 18, 2014 P/N 7610-003-37-08 (Revision F)

MANUFACTURERS WARRANTY

ONE YEAR LIMITED PARTS & LABOR WARRANTY

ALL NEW JACKSON DISHWASHERS ARE WARRANTED TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIAL OR WORKMANSHIP, UNDER NORMAL USE AND OPERATION FOR A PERIOD OF (1) ONE YEAR FROM DATE OF PURCHASE, BUT IN NO EVENT TO EXCEED (18) EIGHTEEN MONTHS FROM DATE OF SHIPMENT FROM THE FACTORY.

Jackson WWS agrees under this warranty to repair or replace, at its discretion, any original part which fails under normal use due to faulty material or workmanship during the warranty period, providing the equipment has been unaltered, and has been properly installed, maintained and operated in accordance with applicable factory instruction manual furnished with the machine and failure is reported to the authorized service agency within the warranty period. This includes the use of factory 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 void warranty certification.

The labor to repair or replace such failed part will be paid by Jackson WWS, within the continental United States, Hawaii and Canada, during the warranty period provided a Jackson WWS authorized service agency, or those having prior authorization from the factory, performs the service. Any repair work by persons other than Jackson WWS authorized service agency is the sole responsibility of the customer. Labor coverage is limited to regular hourly rates; overtime premiums and emergency service charges will not be paid by Jackson WWS.

Accessory components not installed by the factory carry a (1) one year parts warranty only. Accessory components such as table limit switches, pressure regulators, pre-rinse units, etc. that are shipped with the unit and installed at the site are included. Labor to repair or replace these components is not covered by Jackson WWS.

This warranty is void if failure is a direct result from shipping, handling, fire, water, accident, misuse, acts of God, attempted repair by authorized persons, improper installation, if serial number has been removed or altered, or if unit is used for purpose other than originally intended.

TRAVEL LIMITATIONS

Jackson WWS limits warranty travel time to (2) two hours and mileage to (100) one hundred miles. Jackson WWS will not pay for travel time and mileage that exceeds this, or any fees such as those for air or boat travel without prior authorization.

WARRANTY REGISTRATION

To register your product go to www.jacksonwws.com or call 1-888-800-5672. Failure to register your product will void the warranty.

REPLACEMENT PARTS WARRANTY

Jackson replacement parts are warranted for a period of 90 days from date of installation or 180 days from the date of shipment from the factory, whichever occurs first.

PRODUCT CHANGES AND UPDATES

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

THIS IS THE ENTIRE AND ONLY WARRANTY OF JACKSON WWS. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE, 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.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FOR FITNESS OR MERCHANTABILITY, THAT ARE NOT SET FORTH HEREIN, OR THAT EXTEND BEYOND THE DURATION HEREOF. UNDER NO CIRCUMSTANCES WILL JACKSON WWS BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, OR FOR THE DAMAGES IN THE NATURE OF PENALTIES, ARISING OUT OF THE USE OR INABILITY TO USE ANY OF ITS PRODUCTS.

ITEMS NOT COVERED

THIS WARRANTY DOES NOT COVER CLEANING OR DELIMING OF THE UNIT OR ANY COMPONENT SUCH AS, BUT NOT LIMITED TO, WASH ARMS, RINSE ARMS OR STRAINERS AT ANYTIME. NOR DOES IT COVER ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO TIMER CAMS, THERMOSTATS OR DOORS, BEYOND 30 DAYS FROM THE DATE OF INSTALLATION. IN ADDITION, THE WARRANTY WILL ONLY COVER REPLACEMENT WEAR ITEMS SUCH AS CURTAINS, DRAIN BALLS, DOOR GUIDES OR GASKETS DURING THE FIRST 30 DAYS AFTER INSTALLATION. ALSO, NOT COVERED ARE CONDITIONS CAUSED BY THE USE OF INCORRECT (NON-COM-MERICAL) GRADE DETERGENTS, INCORRECT WATER TEMPERATURE OR PRESSURE, OR HARD WATER CONDITIONS.

REVISION/ PAGE	REVISION DATE	MADE BY	APPLICABLE ECN	DETAILS
А	05-25-2007	MAW	N/A	Release to production.
24	10-04-2007	MAW	7934	Changed cover on power junction box.
10	05-20-2009	ARL	QOF 339	Updated programming page diagram.
В	04-26-2012	RLC	QOF 386	Updated location of door switch on schematic.
С	04-27-2012	RLC	QOF 386	Added EnergyStar logo.
D	03-08-13	RLC	QOF NDB-219	Updated company logo
E	01-23-14	МНН	QOF NDB-238	Added wiring change schematics. Removed "Stop" page. Updated warranty information.
F	03-12-14	МНН	ECN 8293	Removed page on programming chemical feeder pumps. Updated drawings for control box assembly, motor & pump assembly and incoming plumbing assembly. Added schematics and harness connections.



Delta 5

Delta 5 - Low temperature, chemically sanitizing, with a booster tank. Detergent, rinse aid & sanitizer chemical feeder pumps

Delta 5 D - Dual door. Low temperature, chemically sanitizing, with a booster tank. Detergent, rinse aid & sanitizer chemical feeder pumps

Model:	Jackson WWS, INC. provides technical support
Serial No.:	for all of the dishmachines detailed in this manual. Jackson strongly recommends that users refer to
	this manual before calling technical support staff.
Installation Date:	Users should have this manual on hand when
	calling technical support. Technical support is
Service Rep. Name:	available from 8:00 a.m. to 5:00 p.m. (EST),
	Monday through Friday, for service personnel only.
Phone No.:	Technical support is not available on holidays.
	Call toll free at 1-888-800-5672.

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SECTION 1: SPECIFICATION INFORMATION

SECTION 1: SPECIFICATION INFORMATION SPECIFICATIONS

OPERATING CAPACITY (NSF RATED):

RACKS PER HOUR	29
DISHES PER HOUR	725
GLASSES PER HOUR	725

OPERATING CYCLES (SECONDS):

NORMAL CYCLE:

WASH TIME	45
RINSE TIME	25
TOTAL CYCLE TIME	90

WASH TANK CAPACITY (GALLONS): 1.2

WASH PUMP CAPACITY (GPM): 61

OPERATING TEMPERATURES:

WASH (MINIMUM)	(48.9°C) 120°F
WASH (RECOMMENDED)	(60.0°C) 140°F
RINSE (MINIMUM)	(48.9°C) 120°F
RINSE (RECOMMENDED)	(60.0°C) 140°F

WATER REQUIREMENTS:

WATER LINE SIZE NPT	1/2"
DRAIN LINE SIZE NPT	2"
FLOW PRESSURE	$20\ \pm 5\ \text{PSI}$

MINIMUM CHLORINE REQUIRED (PPM):

ELECTRICAL REQUIREMENTS:

WASH PUMP MOTOR HP	3/4

			RINSE		TYPICAL
VOLTS	РН	HZ	HEATER RATINGS	TOTAL AMPS	ELECTRICAL CIRCUIT
115	<u>еп</u> 1	60	2KW@110V	*16 A	20 AMP

* This dishmachine is designed so that the wash motor is never running when the wash heater is on. Service load is based upon the higher of the two amperages.

NOTE: Typical Electrical Circuit is based upon (1) 125% of the full amperage load of the machine and (2) typical fixed-trip circuit breaker sizes as listed in the NEC 2002 Edition. Local codes may require more stringent protection than what is displayed here. Always verify with an electrical service contractor that the circuit protection is adequate and meets all applicable national and local codes. These numbers are provided in this manual simply for reference and may change without notice at any given time.

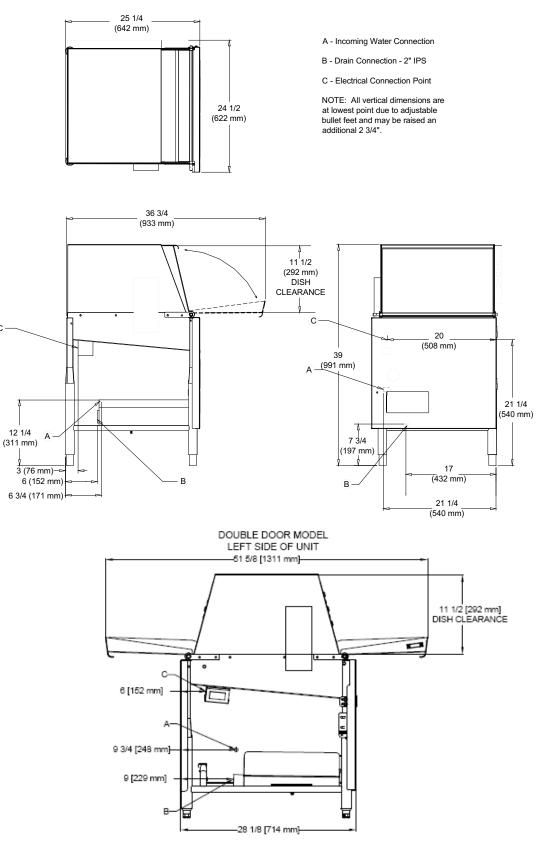
FRAME DIMENSIONS:

WIDTH DEPTH DEPTH, WITH FRONT DOOR OPEN HEIGHT MAXIMUM WASH	(622.3mm) (641.35mm) (933.45mm) (990.6mm)	24 1/2" 25 1/4" 36 3/4" 39"
CHAMBER CLEARANCE	(292.1mm)	11 1/2"
FRAME DIMENSION (DOUBLE DOOI	R):	
WIDTH	(622.3MM)	24 1/2"
DEPTH	(714.375MM)	28 1/8"
DEPTH, WITH DOOR OPEN	(1311.275MM)	51 5/8"
HEIGHT	(990.6MM)	39"
CHAMBER CLEARANCE	(292.1MM)	11 1/2"

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

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SECTION 1: SPECIFICATION INFORMATION DIMENSIONS



С

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SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS

indication of damage to the machine. If there is any type of damage to both container and unit, do not throw away the container.

VISUAL INSPECTION: Before installing unit check container and machine for damage. A damaged container may be an

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS INSTALLATION INSTRUCTIONS

The dishmachine has been inspected at the factory prior to shipping and is expected to arrive in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while it is in transit. If such a situation occurs, do not return the unit 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 (to report possible freight damage) and the dealer from whom the unit was purchased.

UNPACKING THE DISHMACHINE: Remove the machine from the container and inspect it for any missing parts. If a part is missing, contact manufacturer immediately.

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

Frame with Adjustable Foot

I ower

Raise

PLUMBING THE DISHMACHINE: 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 prior to 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 water damage, are not the responsibility of the manufacturer.

A water hardness test should be performed to determine if the HTS-11 (scale prevention & corrosion control) needs to be installed. If water hardness is higher than 5 GPG, the HTS-11 will need to be installed. Please contact manufacturer to purchase the HTS-11.

CONNECTING THE DRAIN LINE: This dishmachine drain requires a minimum 2" NPT piping that is pitched at least 1/4" per foot. 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 gallons per minute.

PRESSURE REGULATOR: In areas where the water pressure fluctuates or is greater than the

PSI "flow" pressure at the recommended temperature as indicated on the data plate.

does not come with a water pressure regulator as standard equipment.

WATER SUPPLY CONNECTION: Install the water supply line (1/2" NPT minimum) to the dishmachine line y-strainer using copper pipe. It is recommended that a water shut-off valve be installed between Drain Connection the main supply and the machine to allow for service. The water supply line must be capable of 20 ± 5

recommended pressure, it is suggested that a water pressure regulator be installed. This dishmachine

SHOCK ABSORBER: It is recommended that a shock absorber (not supplied) be installed in the incoming water line. This prevents water hammer (hydraulic shock)-induced by the solenoid valve as it operates-from causing damage to the equipment.

PLUMBING CHECK: Slowly turn on the water supply to the machine after connecting the incoming fill line and drain line. Check for leaks and repair as required. Leaks must be repaired prior to operating the machine.





Y-Strainer

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS

ELECTRICAL INSTALLATION INSTRUCTIONS

ELECTRICAL POWER CONNECTION: <u>DISCONNECT ELECTRICAL POWER SUPPLIES & TAG OUT IN ACCORDANCE</u> WITH APPROPRIATE PROCEDURES & CODES AT THE DISCONNECT SWITCH TO INDICATE THE CIRCUIT IS BEING <u>SERVICED</u>.

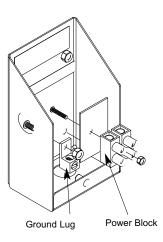
Electrical and grounding conductors must comply with the applicable portions of the National Electric Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Refer to the machine's data plate for machine operating requirements, machine voltage, total amperage & serial number.

Remove the connection box lid to install the incoming power lines. Install 1/2" conduit into the pre-punched holes in the back of the connection box. Route the power wires and connect to the power block and grounding lug. Install the service wires (L1 and N) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Wires should be firmly secured in place.

It is recommended that "De-Ox" or another similar anti-oxidation agent be used on all voltage connections.

VOLTAGE CHECK: Ensure that the machine is off and apply power to the machine. Check the incoming power at the terminal block and ensure it corresponds to the voltage on the machine data plate. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all personnel of the location of the service breaker. Replace all covers and tighten the screws.



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

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS OPERATION INSTRUCTIONS

OPERATIONAL START-UP AND CHECK: Before proceeding with the start-up, verify the following:

- 1. Open the door and verify that the sump strainer is correctly installed in the sump.
- 2. Verify that the drain stopper is in position.
- 3. Check that the plugs are securely screwed into the ends of the wash arm.
- 4. Check that the wash arm is securely screwed into the stationary base and that it rotates freely.
- 5. Check the levels in all chemical containers and replace if necessary.

INITIAL START-UP PROCEDURE:

- 1. Turn on dishmachine:
 - a) Turn on the incoming power to the machine at the circuit disconnect box.
 - b) Turn on the dishmachine by pressing the ON/OFF button. The red light will come on.
 - c) Check voltage at incoming terminals L1& L2. The voltage measured at these points should match data plate voltage.
 - d) If voltages are in required range, close the control box cover.
- 2. Fill the rinse booster heater with water:
 - a) Before the heater element can be energized, the rinse booster heater must be initially filled with water. Damage to the heater element will occur if the element is not submerged in water. To initially fill the booster heater with water:
 i) Press and hold the FILL button to turn on the incoming water solenoid valve. Continue holding the button until water is heard entering the wash chamber through the airgap, then release the button. The rinse booster heater is now filled with water.

ii) Turn off the unit by pressing the on/off switch.

3. Enable heater element:

a) For the initial start-up only, the heater element must be enabled. The machine is shipped from the factory with the heater element disabled. This is done to ensure that the heater element is not damaged by energizing the element without the element being submerged in water. To enable the heater element:

- i) Remove the booster heater cover panel.
- ii) Connect the tagged white/blue wires.
- iii) Replace heater cover.
- iv) Press the on/off switch, heaters will energize to maintain booster heater temperature.

Note: Water must be in the sump while the machine is running to avoid running the pump dry and causing damage to the pump seal.

4. Adjust dishmachine fill level:

a) If the water level is not between the lines on the drain standpipe, it will require adjustment. Check to ensure that the recommended water pressure is being supplied to the machine (20 ± 5 PSI is required). If the water pressure is correct, the electronic timer will need adjustment. Use the following steps to adjust the fill time.

i) Open control box cover.

ii) Adjust fill time as per instructions found in this section.

iii) Open and close the door to run a cycle, then check the water level. Adjust as necessary then close the control box cover.

NOTE: The machine must run a complete cycle to drain and fill. If the machine is not allowed to drain, the water will build up inside the tub. After the initial fill, the rinse water for the current cycle will become the wash water for the next cycle.

The dishmachine is now ready to proceed with dishwashing.

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS

OPERATION INSTRUCTIONS

WARNING: Certain materials, including silver, silver plate, aluminum and pewter, are attacked by sodium hypochlorite sanitizers (bleach).

PREPARING DISHES: Proper preparation of ware is essential for the smooth and efficient operation of the dishmachine, resulting in fewer rewashes and using less detergent.

The following steps should be followed to ensure good results:

- 1. Remove all scraps and soil into a garbage can.
- 2. Separate and pre-soak silverware.
- 3. Separate and pre-soak the egg and casserole dishes.
- 4. Scrape all ware with a brush or spatula.
- 5. Flush cups, bowls and glasses with running water.
- 6. Prewash dishware by soaking or spraying with a pre-rinse hose.
- 7. Place dishes and cups in dish rack. Cups should be upside down so they don't hold water.

8. Place glasses and flatware in their respective racks. Scatter flatware loosely in rack. Glasses should be placed upside down in a properly sized rack. For optimal results, flatware should be washed twice, the first being horizontal, the second in a special rack to hold flatware vertical.

DAILY MACHINE PREPARATION: Before proceeding with start-up, verify the following:

- 1. Open door and verify that the sump strainer is in place in the sump.
- 2. Verify that the drain stopper is in position.
- 3. Check that the plugs are securely screwed into the ends of all wash arms.
- 4. Check that the wash arms are securely screwed into the stationary bases and rotate freely.
- 5. Check levels in all chemical containers and replace if empty.
- 6. For initial fill, close doors and depress the "FILL" switch to the "FILL" position.

WASHING A RACK OF WARE:

1. Open doors, place a full rack into the machine, and close doors. Push the start switch and hold until unit starts (about 2 seconds).

- 2. After cycle is completed open doors and remove rack.
- 3. Repeat steps A and B.

SHUT DOWN AND CLEANING:

- 1. At the end of mealtime, move the "ON/OFF" switch to the "OFF" position.
- 2. Open doors and manually remove drain stopper to drain the unit.
- 3. Remove and clean upper and lower wash arms.
- 4. Remove and clean the sump strainer.

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS CHEMICAL DISPENSING EQUIPMENT



WARNING: CHLORINE-BASED SANITIZERS CAN BE DETRIMENTAL TO THE MACHINE IF THE CHEMICAL SOLUTION IS TOO STRONG. SEE A CHEMICAL PROFESSIONAL TO ENSURE THE DISPENSER IS SET UP CORRECTLY.

This equipment is not recommend for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components and will void the manufacturer's warranty.

TO PREPARE CHEMICAL FEEDER PUMPS FOR OPERATION: The Delta 5 dismachines are supplied with detergent, rinse additive and sanitizer dispensing chemical feeder pumps. Locate the open ends of the chemical tubes with the tube stiffeners and place each one in the appropriate container.

Red Tubing = Detergent Blue Tubing = Rinse Aid White Tubing = Sanitizer

PRIMING CHEMICAL FEEDER PUMPS: Chemical feeder pumps need priming when the machine is first installed or if for some reason the chemical lines have been removed and air is allowed to enter.



CAUTION: Water must be in the sump and wash tank prior to the dispensing of chemicals. Sanitizer in concentration is caustic and may cause damage without dilution.

1. Verify that the proper chemical tube stiffener inlet is in the proper container.

2. Use the prime switches located on the control panel at the bottom of the unit to prime each pump. The switches are clearly marked as to what chemical feeder pump they are assigned to.

3. To prime the pumps, hold the switch in the momentary position until chemical can be observed entering the sump.

4. Detergent is dispensed as required during the wash cycle by the universal timer. The amount of detergent may need to be increased or decreased depending on water quality and type of detergent.

5. Rinse additive is dispensed as required into the final rinse. The amount of rinse aid may need to be adjusted depending on water hardness and results.

6. Sanitizer (either chlorine or iodine) is dispensed into the final rinse. The amount of sanitizer may need to be adjusted depending on the concentration and type of sanitizer used.

7. Please refer to the next page for instruction on adjusting the chemical feeder pumps on the universal timer.



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.

> Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS DETERGENT CONTROL

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

1. Hard water greatly affects the performance of the dishmachine, 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.

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 may not be suitable for use in other areas of operation and it may be necessary to install a water treatment unit for the water going to the dishmachine only. Discuss this option with a qualified water treatment specialist.

4. Dishmachine operators should be properly trained in 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. Certain dishmachine models require that chemicals be provided for proper operation and sanitization. Some models may require the installation of third-party chemical feeders to introduce those chemicals to the machine. The manufacturer does not recommend or endorse any brand name of chemicals or chemical dispensing equipment. Contact a chemical distributor for questions.

6. Some dishmachines come equipped with integral solid detergent dispensers. These dispensers are designed to accommodate detergents in a certain-sized container. If applicable, relate this to a chemical distributor upon first contacting them.

7. Water temperature is an important factor in ensuring that the dishmachine 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, there is a possibility that dishes will not be clean or sanitized.

8. Instruct dishmachine 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—such as a failed heater—or could indicate that the hot water heater for the operation is not up to capacity and a larger one may need to be installed.

SECTION 3: PREVENTATIVE MAINTENANCE

SECTION 3: PREVENTATIVE MAINTENANCE PREVENTATIVE MAINTENANCE

PREVENTATIVE MAINTENANCE: The manufacturer of this dishmachine highly recommends that any maintenance and repairs not specifically discussed in this manual should be performed by qualified service personnel only (find qualified service agencies in the back of this manual). Performing maintenance on the dishmachine may void a warranty.

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

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

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

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

4. If hard water is present, install an HTS-11 into the water line connecting to the dishmachine (see section "Plumbing the Dishmachine").

5. Ensure that all wash and/or rinse arms are secure in the machine before operating.

6. Ensure that drains are closed/sealed before operating.

- 7. Do not overfill racks.
- 8. Ensure that glasses are placed upside down in the rack.

9. Ensure that all chemicals being injected into machine have been verified as being at the correct concentrations.

9. Clean out the machine at the end of every workday as per the instructions in the manual (see section on "Shutdown & Cleaning").

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.

SECTION 4: TROUBLESHOOTING

SECTION 4: TROUBLESHOOTING SECTION

COMMON PROBLEMS



WARNING: Inspection, testing and repair of electrical equipment should be performed only 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 source circuit breaker.

Problem: Water overflow from bottom of door.

<u>CAUSE</u> Clogged drain	<u>SOLUTION</u> Remove obstruction.
Machine not level	Level machine, or increase height to the front.
Excessive inlet pressure	Install pressure reducing valve, or adjust if one is present. Ensure flow is 20 ± 5 PSI.
Detergent foaming	Reduce detergent quantity.
Excessive fill time	Adjust timer fill time as per Section 2.

Problem: Wash motor doesn't operate on manual wash.

<u>CAUSE</u> Loose or broken wires	<u>SOLUTION</u> Reconnect or replace wires in motor.
Defective manual wash switch	Replace.
Defective motor starting relay	Replace.

Problem: Motor operates on manual wash/delime but not on automatic.

<u>CAUSE</u>	<u>SOLUTION</u>
Defective circuit in manual wash switch	Replace switch.

Problem: No water comes through the rinse arms when the "FILL" switch is depressed.

<u>CAUSE</u>	<u>SOLUTION</u>	
Water not turned on	Turn water on.	
Defective solenoid valve	Replace solenoid valve.	

Problem: Little or no water coming through the rinse assemblies.

<u>CAUSE</u> Limed up rinse heads or piping	<u>SOLUTION</u> Delime rinse heads.	

Low water pressure

Increase pipe size to machine. Adjust pressure regulator.

Continued on next page.

SECTON 4: TROUBLESHOOTING SECTION COMMON PROBLEMS

Problem: Rinse water runs continuously with breaker turned off.

<u>CAUSE</u>	<u>SOLUTION</u>
Defective plunger in solenoid valve	Replace.
Defective diaphragm in solenoid valve	Replace diaphragm.

Problem: Wash temperature not at required reading on thermometer.

<u>CAUSE</u> Check that white/blue wires are connected	<u>SOLUTION</u> See note on page 12.
Defective thermometer	Replace.
Defective thermostat	Adjust or replace thermostat.
Rinse heater defective	Replace heater element.
Defective heater contactor R2	Replace.
Incoming inlet water temperature below required minmum.	Adjust.
Defective heater delay relay (R4)	Replace.

Problem: Rinse water not at required temperature range.

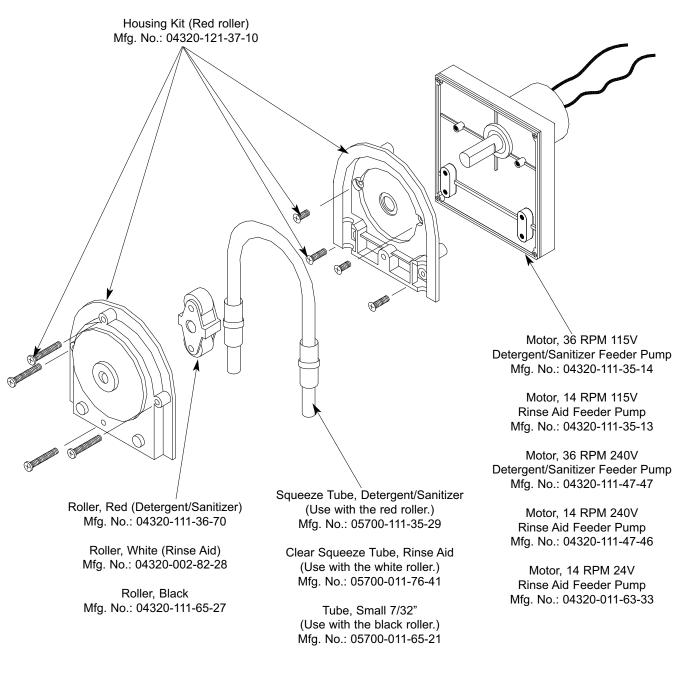
<u>CAUSE</u> Check that white/blue wires are connected	<u>SOLUTION</u> See note in installation instructions.
Thermometer is defective	Replace.
Thermostat is defective	Adjust or replace the thermostat.
Incoming rinse water does not meet minimum criteria indicated on machine data plate	Adjust as required.

Problem: No indication of pressure.

<u>CAUSE</u>	<u>SOLUTION</u>
Water turned off	Turn water on.
Pressure gauge defective	Replace pressure gauge.

SECTION 5: PARTS SECTION CHEMICAL FEEDER PUMP ASSEMBLY

Squeeze Tube Lubricant

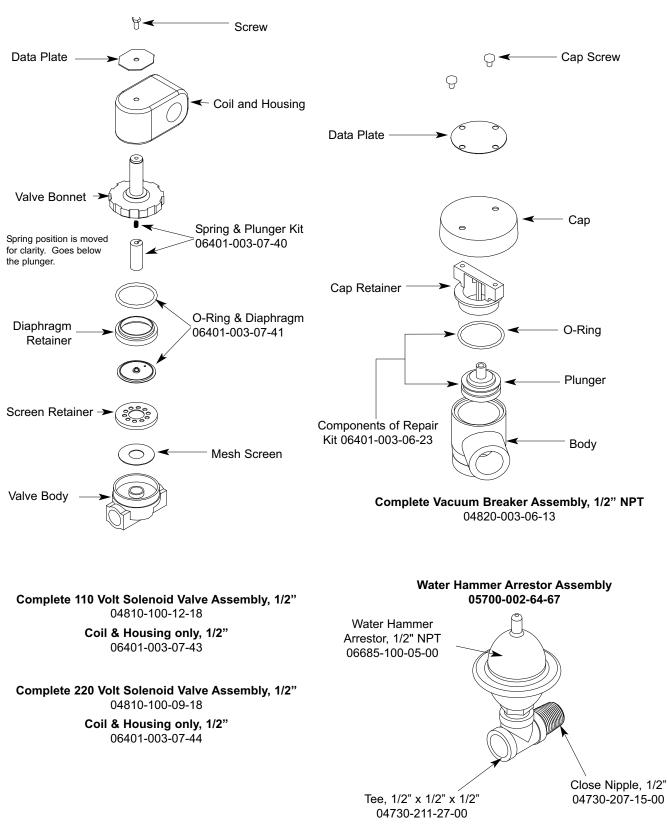


1/4" Sight Tube 3/8" Sight Tube

Mfg. No.: N/A Mfg. No.: 05700-111-35-33

> Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

SOLENOID VALVE REPAIR PARTS KITS

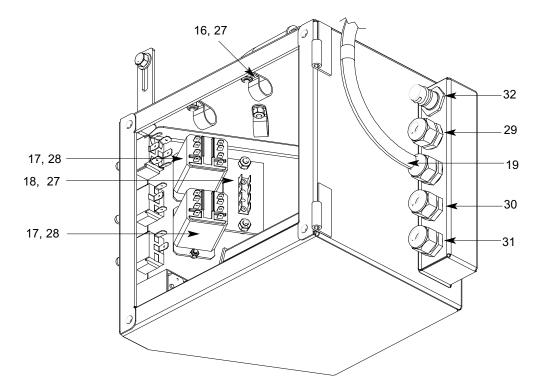


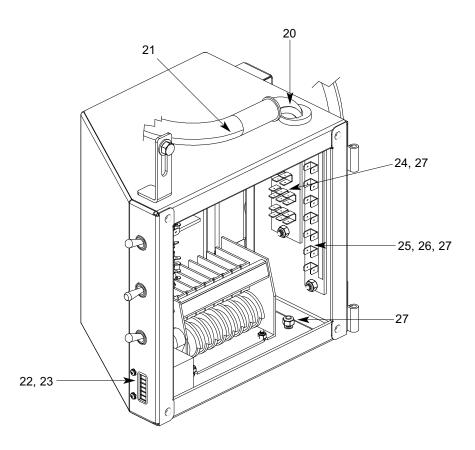
Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

SECTION 5: PARTS SECTION CONTROL BOX ASSEMBLY 1. 9, 10 -2 5 . 6 Normal/Delime - 3 7-Rinse Aid/Detergent Ð 8 - 4 Sanitizer 11, 27 11, 27 14 ⊕ ⊕ ⊕ 5 -70c JOJ= 6 1 \subset ⊕ ⊕ 15 ⊕ 12, 13, 28

Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

CONTROL BOX ASSEMBLY





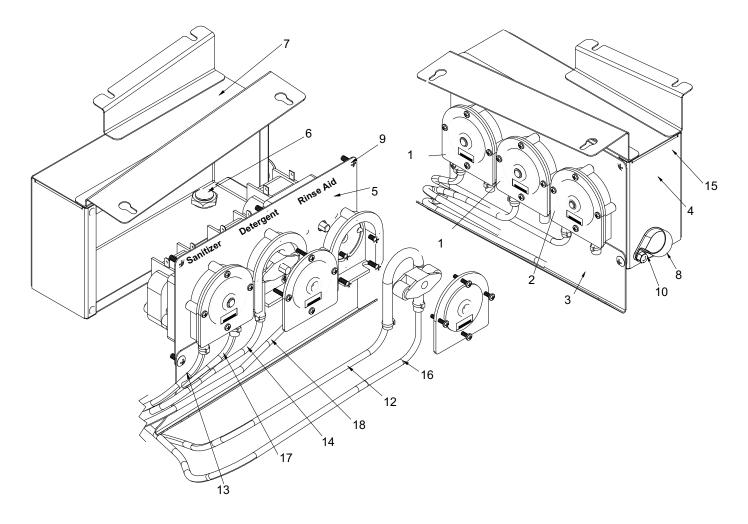
Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

CONTROL BOX ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION
1	1	Control Box Weldment
2	1	Control Box Cover
3	1	Decal, Warning - Disconnect Power
4	4	Screw, 10-32 x 1/2" Long, Phillips Tusshead
5	1	Decal, Peri-pump Prime
6	1	Switch, Delime/Normal
7	1	Detergent/Rinse Aid Pump Prime Switch
8	1	Sanitizer Pump Prime Switch
9	1	Locknut, 1/4"-20 S/S Hex with Nylon Insert
10	1	Washer, 1/4"-20 S/S
11	2	Contactor
12	1	Timer, 8 Cam
13	1	Decal, Cam Timer
14	4	Fitting, Conduit, Heyco 1/2"
15	1	Fitting, 1/2" Straight Snap In
16	5	Clamp, 5/8" Nylon
17	2	Relay, 2 Pole
18	1	Terminal Board
19	1	Harness, Switch Panel
20	1	Fitting, 1/2" 90 Deg. Snap In
21	1	Conduit, 1/2" x 40"
22	1	Cycle Counter, 115V
23	2	Screw, 4-40 x 1/4" Phillips Pan Head
24	1	Terminal Board
25	1	Terminal Board
26	1	Decal, Terminal Board 8 Position
27	16	Locknut, 10-24 S/S Hex with Nylon Insert
28	6	Locknut, 6-32 S/S Hex with Nylon Insert
29	1	Harness, Wash Pump
30	1	Harness, Drain Solenoid
31	1	Harness, Peri-pump
32	1	Conduit, 1/2" x 17"

Mfg. No. 05700-003-09-42 05700-003-30-54 09905-100-75-93 05305-011-39-36 09905-003-32-56 05930-301-21-18 05930-011-35-27 05930-111-38-21 05310-374-01-00 05311-174-01-00 05945-109-05-69 05945-111-35-32 09905-011-37-21 05975-011-49-03 05975-003-33-27 04730-011-39-01 05945-111-35-19 05940-021-94-85 05700-003-35-37 05975-003-33-28 05700-003-35-48 05990-111-35-38 05305-002-32-38 05940-002-78-97 05940-001-97-91 09905-003-09-30 05310-373-01-00 05310-373-03-00 05700-003-35-34 05700-003-35-36 05700-003-35-35 05700-003-35-49

PERI-PUMP BOX ASSEMBLY



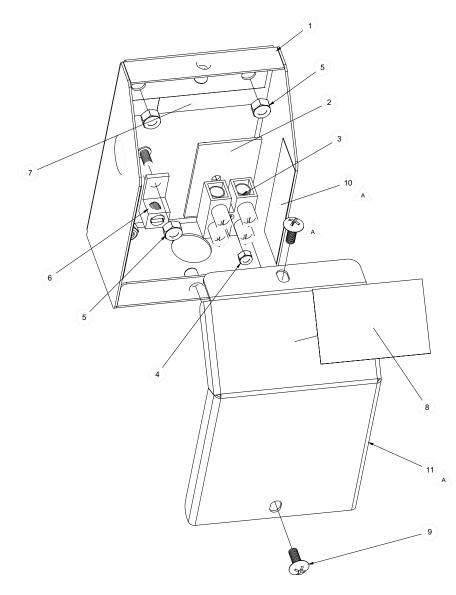
ITEM	QTY	DESCRIPTION
1	2	Peri-pump Assembly, 36 RPM
2	1	Peri-pump Assembly, 14 RPM
3	1	Drip Channel
4	1	Weldment, Peri-pump Box
5	1	Weldment, Peri-pump Box Cover
6	1	Fitting, Conduit, Heyco 1/2"
7	1	Clamp, 5/8" Nylon (Located inside of box)
8	1	Clamp, 1" Nylon
9	5	Screw, 10-32 x 1/2" Long, Phillips Tusshead
10	3	Locknut, 10-24 S/S Hex with Nylon Insert
11	3	Tube Stiffener (Not Shown)
12	1	Tubing, 1/4" OD x 60" Long, Blue
13	1	Tubing, 1/4" OD x 60" Long, White
14	1	Tubing, 1/4" OD x 60" Long, Red
15	1	Terminal Board (Not Shown)
16	1	Tubing,1/4 OD x 120 Long Blue
17	1	Tubing,1/4 OD x 120 Long Write
18	1	Tubing,1/4 OD x 120 Long Red

Mfg. No.

05700-002-96-08 05700-002-96-09 05700-003-32-89 05700-003-32-00 05700-003-33-80 05975-011-65-51 04730-011-39-01 04730-002-41-88 05305-011-39-36 05310-373-01-00 05700-002-66-49 05700-002-52-34 05700-002-52-33 05700-011-63-18 05940-001-97-91 05700-011-37-17 05700-011-37-13 05700-011-37-15

Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

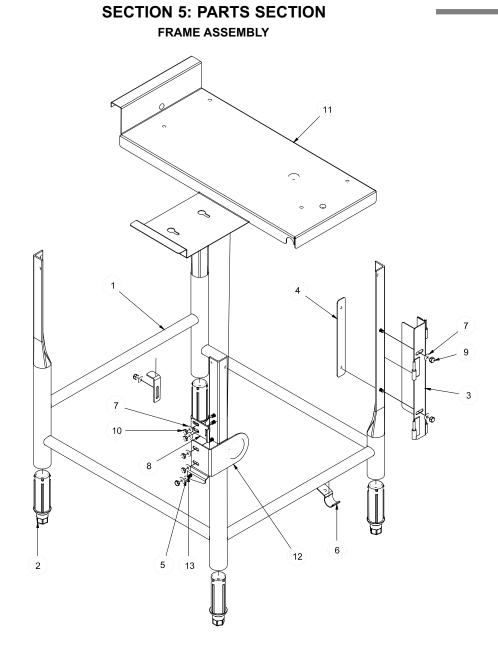
SECTION 5: PARTS SECTION ELECTRICAL CONNECTION BOX ASSEMBLY



ITEM	QTY	DESCRIPTION
1	1	Box, Power Junction Weldment
2	1	Terminal Block Spacer
3	1	Terminal Block
4	1	Locknut, 6-32 with Nylon Insert
5	5	Locknut, 10-24 with Nylon Insert
6	1	Lug, Ground
7	1	Decal, Power Connection
8	1	Decal, Warning to Disconnect Power
9	1	Screw, 10-32 x 1/2" Long, Phillips Trusshead
10	2	Decal, Copper Conductors Only
11	1	Cover, Solenoid Box

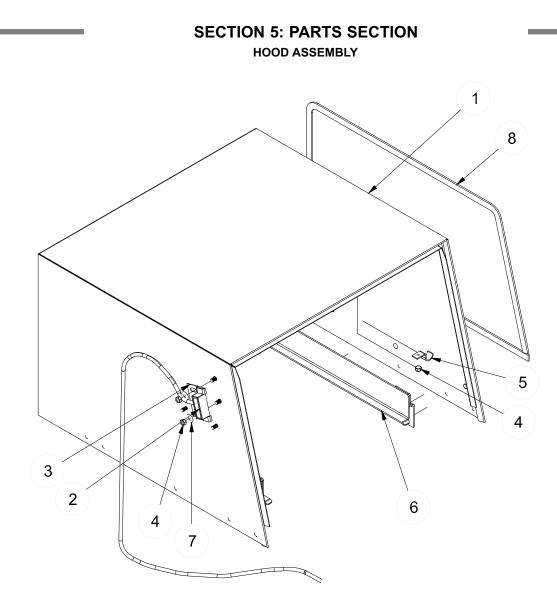
Mfg. No.

05700-003-30-58 05700-011-40-05 05940-500-09-61 05310-373-03-00 05940-200-76-00 09905-011-47-64 09905-100-75-93 05305-011-39-36 09905-011-47-35 05700-003-46-72



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Frame Weldment	05700-003-09-40
2	1	Frame Weldment Double Door	05700-003-28-12
3	4	Foot, 3" Adjustable	05340-002-14-55
4	1	Plate, Hinge Weldment	05700-003-10-11
5	1	Washer, Hinge Weldment	05700-002-54-62
6	1	Spacer, PB Bolt	05700-000-29-40
7	1	Clamp, Pipe 05700-000-3	
8	8	Washer, 1/4"-20 S/S 05311-174-01	
9	1	Keeper, Door Panel Latch 05700-003-09	
10	4	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
11	5	Nut, Hex 1/4"-20	05310-274-01-00
12	1	Booster Mounting Plate Weldment	05700-002-51-93
13	1	Bracket, Temperature Gauge	05700-003-14-53
14	1	Bolt, 1/4"-20 x 1/2" Long	05305-274-02-00

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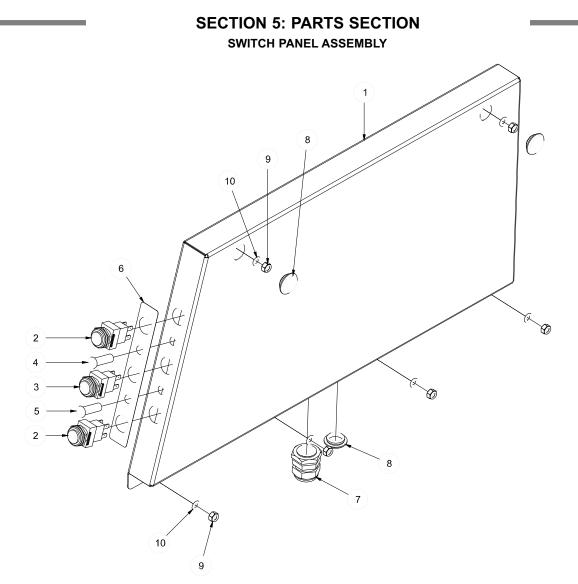


IIEM	QIY	DESCRIPTION
1	1	Hood Weldment

1a	1	Hood Weldment Double Door
2	1	Switch, 115V Reed
3	1	Bracket, Limit Switch
4	4	Locknut, 10-24 with Nylon Insert
5	2	Clamp, Pipe 5/8"
6	2	Rack Rail Weldment
7	2	Washer, 1/4"-20 I.D.
8	1	Casket Side Panel (5.3 Feet)

Gasket, Side Panel (5.3 Feet) 8 1

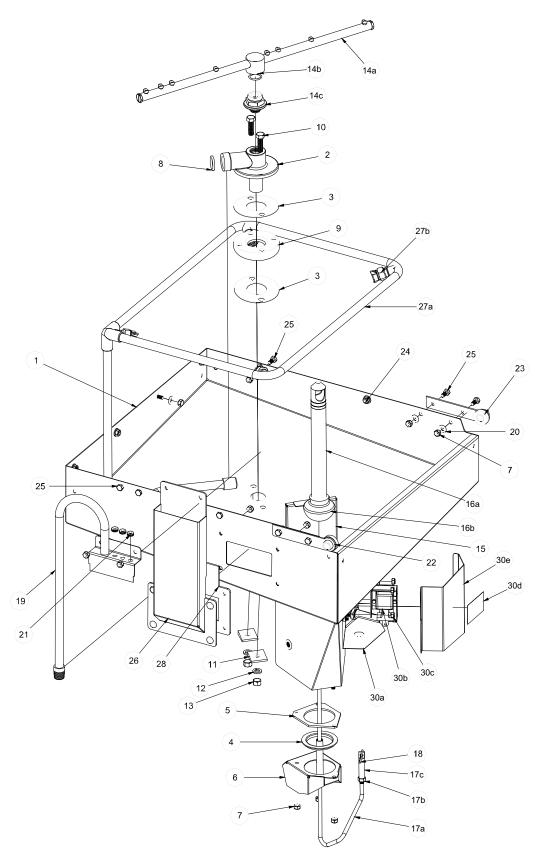
Mfg. No. 05700-003-09-56 05700-003-28-17 05930-002-36-80 05700-021-71-18 05310-373-01-00 05700-000-35-06 05700-002-45-67 05311-174-01-00 05700-003-35-51



ITEM	QTY	DESCRIPTION	Mfg. No.
		Complete Side Panel Assembly	05700-003-24-38
		Complete Side Fanel Assembly (Double Door)	05700-003-24-40
1	1	Side Panel Weldment	05700-003-24-36
1a	1	Side Panel Weldment (Double Door)	05700-003-24-37
2	2 (3)	Switch, Prime Assembly	05700-003-14-91
3	1	Switch, On/Off Assembly	05700-003-14-92
4	1 (2)	Light, Amber	05945-504-06-18
5	1 (2)	Light, Red	05945-504-07-18
6	1	Decal, Switch Panel	09905-003-08-63
7	1	Fitting, .25546	05975-011-65-51
8	3 (2)	Plug, 3/4" hole	04730-011-60-21
9	6	Locknut, 10-24 with Nylon Insert	05310-373-01-00
10	6	Washer, #10	05311-173-02-00
11	1	Decal Switch Panel (Double Door Only)	09905-003-38-95
12	1	Fitting (Double Door Only)	05975-011-49-03
13	1	switch (Double Door Only)	05930-002-36-80
14	1	bracket (Double Door Only)	05700-021-71-18
15	1	Terminal Board	05940-001-97-91

ALL NUMBERS THAT ARE IN PARENTHESES ARE FOR THE DOUBLE DOOR

SECTION 5: PARTS SECTION TUB ASSEMBLY



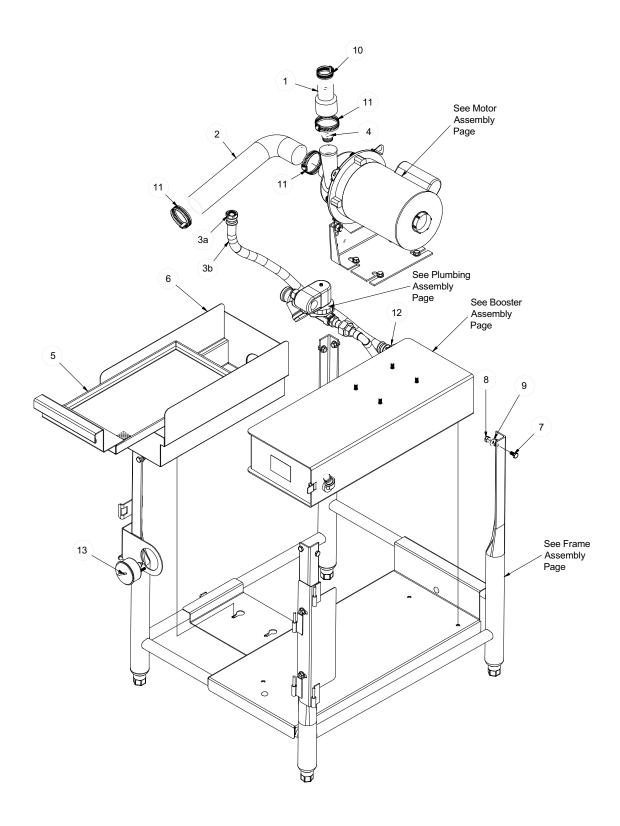
Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

TUB ASSEMBLY CONTINUED

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Tub Weldment	05700-003-09-51
1a	1	Tub Weldment (Double Door)	05700-003-28-15
2	1	Lower Manifold Weldment	05700-002-45-51
2	2	Manifold Gasket	
3 4	2	Drain Seat Insert	05700-111-35-03 05700-021-34-38
	1	Spillway Gasket	05700-111-34-52
5	1		05700-031-37-86
6 7	23	Spillway Weldment	
	23 1	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
8 9	1	Manifold O-Ring Modified Casting Wedge	05330-111-35-15
9 10	2		09515-011-46-61
10	2	Bolt, 3/8"-16 x 1 1/4" S/S	05305-276-10-00 05311-011-35-36
	2	Washer, 3/8" Bevel-Square Iron	
12		Lockwasher, 3/8"	05311-276-01-00
13	2 1	Nut, 3/8"-16 S/S Hex	05310-276-01-00
14		Complete Wash Arm Assembly	05700-003-31-60
14a	1	Wash Arm Weldment w/ End Plugs	05700-003-31-61
4.46	1	Wash Arm End Plugs	05700-003-31-59
14b	1	Wash Arm O-ring	05330-002-60-69
14c	1	Wash Arm Bearing Assembly	05700-021-35-97
15	1	Sump Strainer	05700-002-60-50
16a	1	Stand Pipe Weldment	05700-021-33-29
16b	1	Stopper, Stand Pipe	05700-121-35-54
17	1	Drain Link Assembly	05700-002-45-52
17a	1	Drain Link	05700-002-40-83
17b	1	Nut, Hex, 5/16"-18	05310-275-01-00
17c	1	Drain Link Connector	05700-002-38-10
18	1	Hair Pin, 1/8" to 1"	05315-011-60-09
19	1	Fill Tube Weldment	05700-002-45-61
20	18	Washer, 1/4"-20 I.D.	05311-174-01-00
21	3	Chemical Tube Grommet	05325-002-42-65
22	1 (2)	Pivot Plate, Left Door Complete Assembly	05700-002-45-62
22a	1	Door Pivot Plate Left Weldment	05700-002-45-63
22b	1	Door Pivot Plate Bearing	03110-002-45-09
23	1 (2)	Pivot Plate, Right Door Complete Assembly	05700-002-52-95
23a	1	Door Pivot Plate Right Weldment	05700-002-52-94
23b	1	Door Pivot Plate Bearing	03110-002-45-09
24	3	Bolt, 1/4"-20 x 1/2" Long	05305-274-02-00
25	6	Screw, 1/4"-20 x 5/8" Long	05305-274-24-00
26	1 1	Air Gap Weldment	05700-003-23-48
27 27a	-	Halo Assembly	05700-003-23-49
27a 27b	1	Halo Weldment	05700-003-16-65
27b	4	Spray Nozzle and Receptacle	04730-002-55-61
28	1	Gasket, Air Gap	05330-003-24-17
29 30	2	Clamp, 1" Nylon (Not Shown, located on bottom of tub.)	04730-002-41-88
30 200	1	Drain Solenoid Box Assembly	05700-003-09-61
30a 20b	1	Solenoid Box Weldment	05700-003-35-88
30b	1	Drain Solenoid, 115V	04810-200-11-00
30c	4	Locknut, 10-24 with Nylon Insert	05310-373-01-00
30d 30e	1 1	Decal, Warning Solenoid Box Cover	09905-100-75-93 05700-003-30-25
206	I		03700-003-30-23

ALL NUMBERS THAT ARE IN PARENTHSES ARE FOR THE DOUBLE DOOR

SECTION 5: PARTS SECTION FRAME AND MOTOR ASSEMBLY



Delta 5 Installation & Operation Manual 7610-003-37-08 Issued: 05-25-2007 Revised: 03-18-2014

FRAME AND MOTOR ASSEMBLY (CONTINUED)

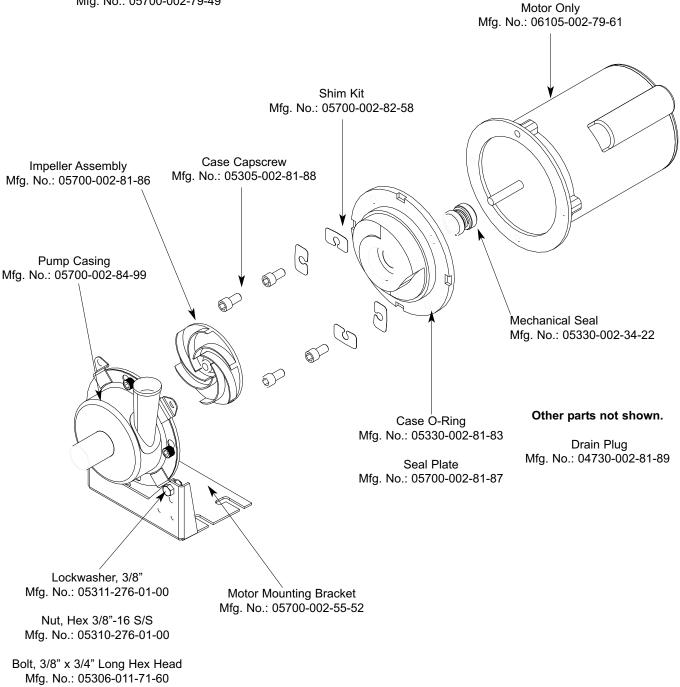
ITEM	QTY	DESCRIPTION	Mfg
1	1	Discharge Tube Connector	0570
2	1	Pump Suction Hose	0570
3	1	Discharge Hose Assembly	0570
3a	2	Fitting, 1/2" Pushlock, Female, Brass	0473
3b	1	Hose, 1/2" x 22 1/2" Long	0570
4	1	Wash Restrictor	0570
5	1	Accumulator Strainer Weldment	0570
6	1	Accumulator Weldment	0570
7	8	Bolt, 1/4"-20 x 1/2" Long	0530
8	18	Locknut, 1/4"-20 S/S Hex with Nylon Insert	053 <i>°</i>
9	18	Washer, 1/4"-20 S/S	053 <i>°</i>
10	1	Hose Clamp, 13/16 TO 1 1/2"	0473
11	3	Hose Clamp, 1 1/16" to 2 1/4"	0473
12	1	Close Nipple, 1/2" Brass	0473
13	1	Gauge, Thermometer	0668

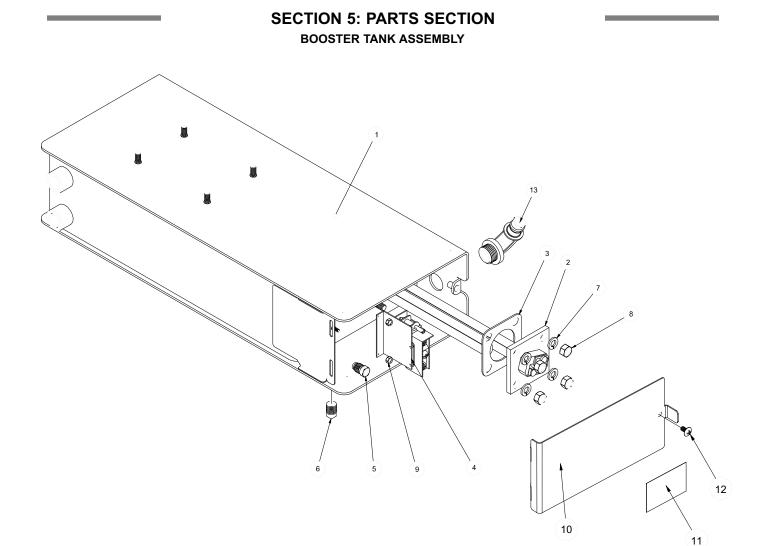
g. No. 00-011-70-34 700-002-40-82 700-002-45-58 730-011-93-99 700-002-45-59 700-002-84-69 700-003-33-25 700-002-51-95 305-274-02-00 310-374-01-00 311-174-01-00 730-719-06-09 730-719-18-00 730-207-15-00 685-111-68-48

SECTION 5: PARTS SECTION MOTOR & PUMP ASSEMBLY

Complete Pump & Motor Assembly Mfg. No.: 06105-002-16-29

> Pump Only Assembly Mfg. No.: 05700-002-79-49

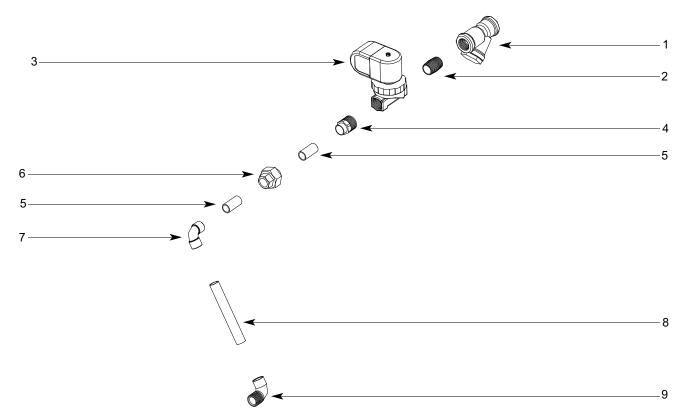




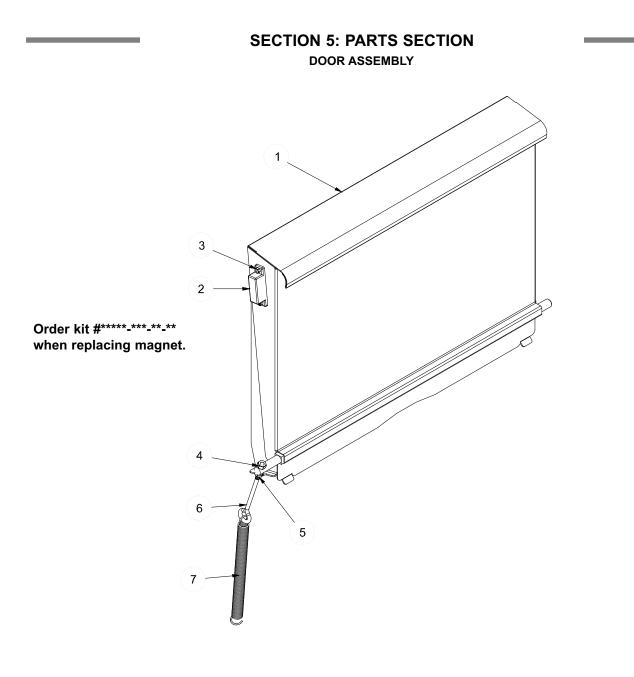
ITEM	QTY	DESCRIPTION	Mfg. No.	
1	1	Booster Tank Weldment	05700-002-45-56	
2	1	Heater, 120V, 2000 Watts	04540-002-45-13	
3	1	Heater Gasket	05330-100-01-10	
4	1	Thermostat	05930-003-13-65	
5	1	Fitting, Imperial Brass	05310-924-02-05	
6	1	Plug, 1/4" Brass	04730-209-01-00	
7	4	Lockwasher, 5/16"	05311-275-01-00	
8	4	Nut, 5/16"-18 S/S Hex	05310-275-01-00	
9	2	Locknut, 6-32 S/S Hex w/ Nylon Insert	05310-373-03-00	
10	1	Booster Tank Cover	05700-002-39-07	
11	1	Decal, Warning, Disconnect Power	09905-100-75-93	
12	1	Screw, 10-32 x 3/8"	05305-173-12-00	
13	1	Fitting, 1/2" NPT x 90 Deg. Elbow	05975-003-35-32	
13a	1	Nut, 1/2" NPT Nylon	05975-003-35-33	

SECTION 5: PARTS SECTION

INCOMING PLUMBING ASSEMBLY



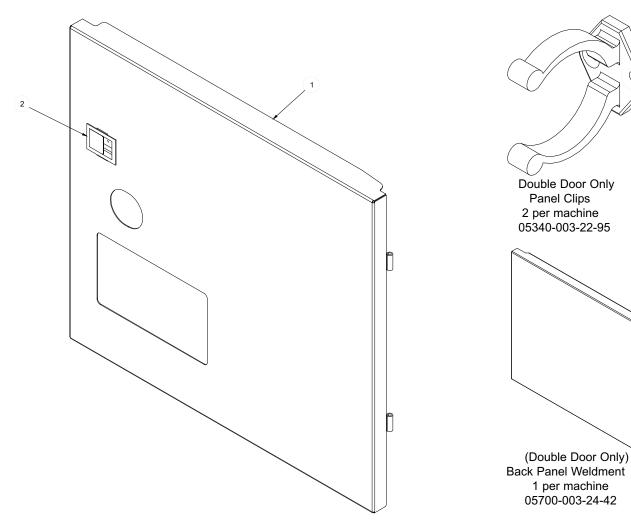
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Y-Strainer	04730-217-01-10
2	1	Nipple, Close, 1/2" NPT, Brass	04730-207-15-00
3	1	Valve, Solenoid, 1/2" NPT, 115V	04810-100-12-18
4	1	Adapter, 1/2" Fitting (CU to Male)	04730-401-03-01
5	2	Tube, Copper, 1/2" x 1 1/4" Long	05700-001-08-28
6	1	Union, 1/2", Copper to Copper	04730-412-05-01
7	1	Elbow, 607, 1/2" Copper to Copper	04730-406-01-01
8	1	Tube, Copper, 1/2" x 4 1/4" Long	05700-001-01-60
9	1	Elbow, 90° (CU to MSPS)	04730-406-32-01



ITEM	QTY	DESCRIPTION	Mfg. No.
		Complete Door Assembly	05700-003-35-30
1	2 (2)	Door Weldment	05700-003-35-29
2	1 (2)	Magnet, Reed Switch	05930-002-68-53
	1 (2)	Magnet Cover (not shown)	05700-004-07-38
3	2 (2)	Locknut, 6-32 S/S Hex with Nylon Insert	05310-373-03-00
4	1 (4)	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
5	1 (2)	Nut, Hex 1/4"-20 S/S	05310-274-01-00
6	1 (2)	Bolt, 1/4"-20 Eye, S/S	05306-002-55-59
7	1 (2)	Spring, Door	05340-011-44-58
		ALL NUMBERS THAT ARE IN PARENTHESES ARE FOR THE DOUBLE DOC	R

SECTION 5: PARTS SECTION

FRONT PANEL ASSEMBLY



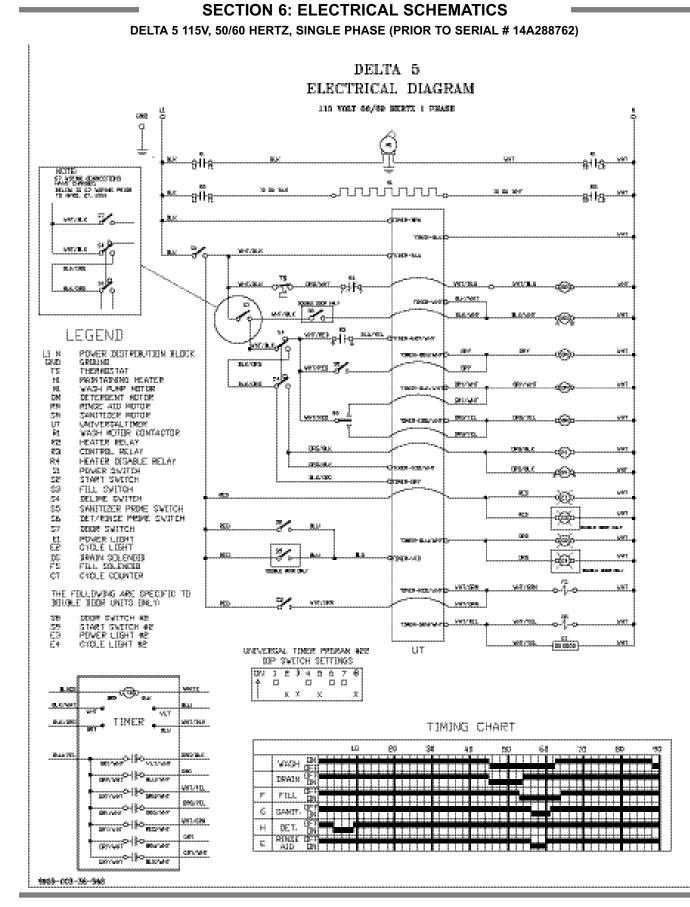
ITEM	QTY	DESCRIPTION
		Complete Panel Assembly
1	1	Panel Weldment
2	1	Handle

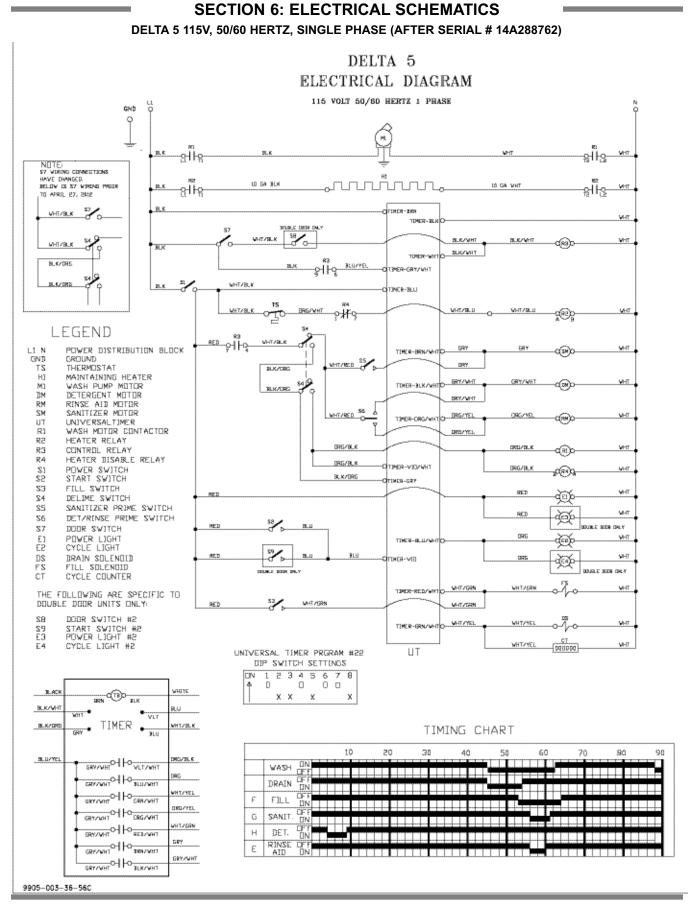
- 2 1 Handle 3 1 Back panel weldment
- 4 2 Panel clip

Mfg. No. 05700-003-09-53

05700-003-09-54 05340-001-96-30 05700-002-24-42 05700-033-22-95

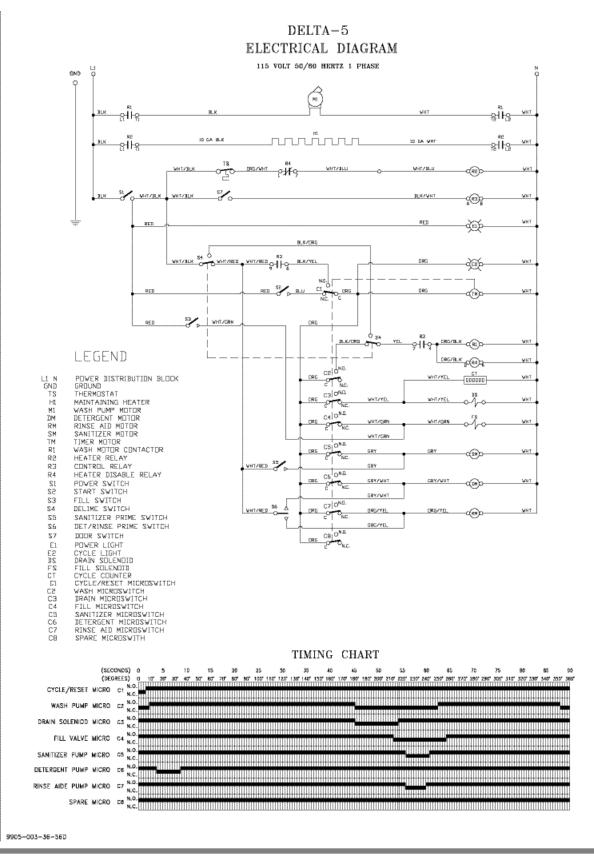
SECTION 6: ELECTRICAL SCHEMATICS

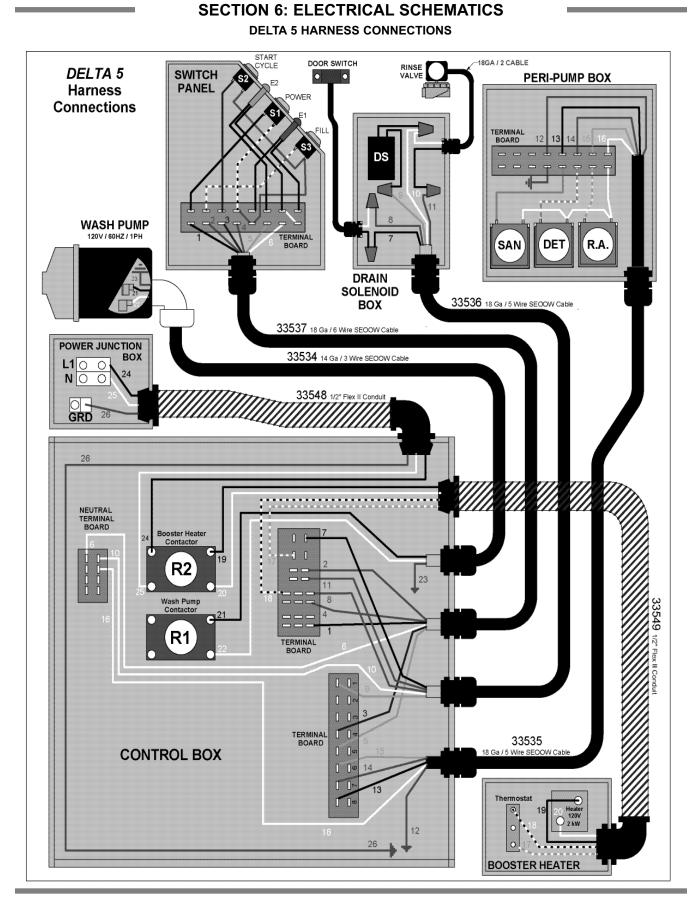




SECTION 6: ELECTRICAL SCHEMATICS

DELTA 5 115V, 50/60 HERTZ, SINGLE PHASE





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SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

ALABAMA TO FLORIDA

ALABAMA

CALIFORNIA

JONES-MCLEOD APPLIANCE SVC BARKERS FOOD MACHINERY

1616 7TH AVE. NORTH BIRMINGHAM, AL 35203 (205) 251-0159 800-821-1150 FAX: (205) 322-1440 service@jones-mcleod.com

JONES-McLEOD APPLIANCE SVC

854 LAKESIDE DRIVE MOBILE, AL 36693 (251) 666-7278 800-237-9859 FAX: (251) 661-0223

ALASKA

RESTAURANT APPLIANCE SER-VICE

7219 ROOSEVELT WAY NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

ARIZONA

AUTHORIZED COMMERCIAL FOOD EQMT. SVC

4832 SOUTH 35TH STREET PHOENIX, AZ 85040 (602) 234-2443 800-824-8875 FAX: (602) 232-5862 acsboss@aol.com

GCS SERVICE INC.

PHOENIX, AZ (602) 474-4510 800-510-3497 FAX: (602) 470-4511

ARKANSAS

BROMLEY PARTS & SVC

10TH AND RINGO P.O. BOX 1688 LITTLE ROCK, AR 72202 (501) 374-0281 800-482-9269 FAX: (501) 374-8352 service@bromleyparts.com parts@bromleyparts.com

GCS SERVICE, INC.

3717 CHERRY ROAD MEMPHIS, TN 38118 (901) 366-4587 800-262-9155 FAX: (901) 366-4588 BARKERS FOOD MACHI SERVICES 5367 SECOND STREET IRWINDALE, CA 91706 (626) 960-9390 800-258-6999 FAX: (626) 337-4541 service@barkers.com

GCS SERVICE INC. LOS ANGELES, CA

(213) 683-2090 800-327-1433 FAX: (213) 683-2099

GCS SERVICE INC.

SANTA ANA, CA (714) 542-1798 800-540-0719 FAX: (714) 542-4787

GCS SERVICE INC.

S. SAN FRANCISCO, CA (650) 635-0720 800-969-4427 FAX: (650) 871-4019

COMMERCIAL APPLIANCE SER-VICE. INC.

6507 PACIFIC AVENUE, SUITE 102 STOCKTON, CA 95207 (916) 567-0203 (800) 464-2222 (916) 567-0266 FAX

GCS SERVICE INC.

SAN DIEGO, CA (858) 549-8411 800-422-7278 FAX: (858) 549-2323

INDUSTRIAL ELECTRIC SVC.

5662 ENGINEER DRIVE HUNTINGTON BEACH, CA 92649 (714) 379-7100 (800-457-3783 FAX: (714) 379-7109

P & D APPLIANCE SVC

100 SOUTH LINDEN AVE. S. SAN FRANCISCO, CA 94080 (650) 635-1900 800-424-1414 FAX: (650) 635-1919 pndappl@aol.com

P & D APPLIANCE

4220-C ROSEVILLE ROAD NORTH HIGHLANDS, CA 95660 (916) 974-2772 800-824-7219 FAX:(916) 974-2774

COMMERCIAL APPLIANCE SER-

VICE, INC. 281 LATHROP WAY, #100 SACRAMENTO, CA 95815 (916) 567-0203 (800) 464-2222 (916) 567-0324 FAX

COLORADO

GCS SERVICE INC. SHERIDAN, CO (303) 371-9054 800-972-5314 FAX: (303) 371-4754

HAWKINS COMMERCIAL APPLI-ANCE SERVICE

ANCE SERVICE 3000 S. WYANDOT ST. ENGLEWOOD, CO 80110 (303) 781-5548 (800) 624-2117 FAX: (303) 761-5561 johns@hawkinscommercial.com

METRO APPLIANCE SERVICE

1640 S BROADWAY DENVER, CO 80210 (303) 778-1126 800-525-3532 FAX: (303) 778-0268 metroappls@aol.com

CONNECTICUT

GCS SERVICE INC.

HARTFORD, CT (860) 549-5575 800-423-1562 FAX: (860) 527-6355

SUPERIOR KITCHEN SERVICE INC. 22 THOMPSON ROAD

WINDSOR, CT 06088 (888) 590-1899 (888) 590-1996 FAX

DELAWARE

FOOD SERVICE EQMT. 2101 PARKWAY SOUTH BROOMALL, PA 19008 (610) 356-6900 FAX: (610) 356-2038

dancerule@aol.com

GCS SERVICE INC.

PHILADELPHIA, PA (215)925-6217 800-441-9115 FAX: (215) 925-6208

ELMER SCHULTZ SERVICE

36 BELMONT AVE. WILLMINGTON, DE 19804 (302) 655-8900 800-225-0599 FAX: (302) 656-3673 elmer2@erols.com

EMR SERVICE DIVISION

106 WILLIAMSPORT CIRCLE SALISBURY, MD 21804 (410) 543-8197 FAX: (410) 548-4038

FLORIDA

COMMERCIAL APPLIANCE SER-VICE

8416 LAUREL FAIR CIRCLE BLDG 6, SUITE 114 TAMPA, FL 33610 (813) 663-0313 800-282-4718 FAX: (813) 663-0212 commercialappliance@worldnet.att. net

GCS SERVICE INC

MIAMI, FL (305) 621-6666 800-766-8966 FAX: (305) 621-6656

GCS SERVICE INC

ORLANDO, FL (407) 841-2551 800-338-7322 FAX: (407) 423-8425

NASS PARTS AND SERVICE, INC. 1144 BELVILLE ROAD, UNIT 359

1144 BELVILLE ROAD, UNIT 3 DAYTONA BEACH, FL 32114 (386) 226-2642 (800) 432-2795 (386) 736-7695 FAX

GCS SERVICE INC

TAMPA, FL (813) 626-6044 800-282-3008 FAX: (813) 621-1174

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

FLORIDA TO MARYLAND

JONES-McLEOD APPLIANCE

854 LAKESIDE DRIVE MOBILE, AL 36693 (251) 666-7278 800-237-9859 FAX: (251) 661-0223 service@jones-mcleod.com

NASS PARTS AND SERVICE, INC.

1108 SOUTH WOODS AVENUE ORLANDO, FL 32805 (407) 425-2681 (800) 432-2795 (407) 425-3463 FAX

NASS PARTS AND SERVICE, INC. 800-433-9390

1376 HEIDE AVENUE PALM BAY, FL 32907 (321) 952-2012 (800) 432-2795 (321) 953-0266 FAX

GEORGIA

GCS SERVICE INC ATLANTA, GA

(770) 452-7322 800-334-3599 FAX: (770) 452-7473

HERITAGE FOODSERVICE GROUP OF ATLANTA

2100 NORCROSS PKWY. SUITE 130 NORCROSS, GA 30071 (770) 368-1465 866-388-9837 FAX: (866) 388-9838

WHALEY FOODSERVICE REPAIRS

109-A OWENS INDUSTRIAL DRIVE SAVANNAH, GA 31405 (912) 447-0827 888-765-0036 FAX: (912) 447-0826

PIERCE PARTS & SERVICE

2422 ALLEN ROAD MACON, GA 31216 (478) 781-6003 800-368-2512 FAX: (478) 781-7186

HAWAII

FOOD EQMT. PARTS & SERVICE CO. 300 PUUHALE RD. HONOLULU, HI 96819 (808) 847-4871 FAX: (808) 842-1560 fepsco@hula.net

IDAHO

RESTAURANT APPLIANCE SVC. 7219 ROOSEVELT WAY NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

RON'S SERVICE 703 E 44TH STREET STE 10 GARDEN CITY, ID 83714 (208) 375-4073 FAX: (208) 375-4402

ILLINOIS

CONES REPAIR SVC.

2408 40TH AVE. MOLINE, IL 61265 (309) 797-5323 800-716-7070 FAX: (309)797-3631 jackb@cones.com

EICHENAUER SERVICES INC.

130 S OAKLAND ST. DECATUR, IL 62522 (217) 429-4229 800-252-5892 FAX: (217) 429-0226 esi@esiquality.com

GCS SERVICE INC.

ELMHURST, IL (630) 941-7800 800-942-9689 FAX: (630) 941-6048

GCS SERVICE INC.

ST. LOUIS, MO (314) 683-7444 800-284-4427 FAX: (314) 638-0135

GENERAL PARTS, INC.

248 JAMES STREET BENSONVILLE, IL 60106 (630) 595-3300 (800) 880-3604 FAX: (630)595-0006

INDIANA

GCS SERVICE INC. INDIANAPOLIS. IN

(317) 545-9655 800-727-8710 FAX: (317) 549-6286

B622 LA PAS TRAIL INDIANAPOLIS, IN 46268 (317) 290-8060 (800) 410-9794 (317) 290-8085 FAX

IOWA GOODWIN TUCKER GROUP

2900 DELAWARE AVENUE DES MOINES, IA 50317 (515) 262-9308 800-372-6066 FAX: (515) 262-2936 parts@goodwintucker.com

CONES REPAIR SVC.

1056 27TH AVENUE SW CEDAR RAPIDS, IA 52404 (319) 365-3325 800-747-3326 FAX: (319) 365-0885

KANSAS

GCS SERVICE INC.

KANSAS CITY, MO (816) 920-5999 800-229-6477 FAX: (816) 920-7387

GENERAL PARTS, INC.

1101 E. 13TH STREET KANSAS CITY, MO 64106 (816) 421-5400 (800) 279-9967 (816) 421-1270 FAX

KENTUCKY

CERTIFIED SERVICE CENTER 127 DISHMAN LANE

127 DISHMAN LANE BOWLING GREEN, KY 42101 (270) 783-0012 (877) 907-0012 FAX: (270) 783-0058

CERTIFIED SERVICE CENTER RAMCO BUSINESS PARK

4283 PRODUCE ROAD LOUISVILLE, KY 40218 (502) 964-7007 800-637-6350 FAX: (502) 964-7202 cwalker@certifiedsc.com droenigk@certifiedsc.com

CERTIFIED SERVICE CENTER

1051 GOODWIN DRIVE LEXINGTON, KY 40505 (606) 254-8854 800-432-9269 FAX: (606) 231-7781 jatkins@certifiedsc.com

GCS SERVICE INC.

LOUISVILLE, KY (502) 367-1788 800-752-6160 FAX: (502) 367-0400

GCS SERVICE INC.

LEXINGTON, KY (606) 255-0746 800-432-9260 FAX: (606) 255-0748

LOUISIANA

HERITAGE SERVICE GROUP 1532 RIVER OAKS WEST NEW ORLEANS, LA 70123 (504) 734-8864 (800) 499-2351 (504) 733-2559 FAX

MAINE

GCS SERVICE INC.

CHELSEA, MA (617) 889-9393 800-225-1155 FAX: (617) 889-1222

MASSACHUSETTS RESTAU-RANT SUPPLY

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 686-5331

PINE TREE FOOD EQUIPMENT

175 LEWISTON ROAD GRAY, ME 04039 (207) 657-6400 (800) 540-5427 (207) 657-5464 FAX

MARYLAND

EMR SERVICE DIVISION

700 EAST 25TH STREET BALTIMORE, MD 21218 (410) 467-8080 800-879-4994 FAX: (410) 467-4191 baltparts@emrco.com

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS -

MARYLAND TO NEW YORK

EMR SERVICE DIVISION

106 WILLIAMSPORT CIRCLE SALISBURY, MD 21804 (410) 543-8197 888-687-8080 FAX: (410) 548-4038 baltparts@emrco.com

EMR SERVICE DIVISION

5316 Sunnyside Ave. Beltsville, MD 20715 (301) 931-7000 800-348-2365 FAX: (301) 931-3060 baltparts@emrco.com **GCS SERVICE INC.** SILVER SPRING, MD (301) 585-7550 (DC) (410) 792-0338 (BALT) (800) 638-7278 FAX: (301) 495-4410

MASSACHUSETTS

ACE SERVICE CO. 95 HAMPTON AVE. NEEDHAM, MA 02494 (781) 449-4220 800-225-4510 MA & NH FAX: (781) 444-4789 taceservice@aol.com

MASSACHUSETTS RESTAURANT 11311 HAMPSHIRE AVENUE SUPPLY SOUTH

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 868-5331

GCS SERVICE INC.

CHELSEA, MA (617) 889-9393 800-225-1155 FAX: (617) 889-1222

GCS SERVICE INC.

HARTFORD, CT (860) 549-5575 800-723-1562 FAX: (860) 527-6355

SUPERIOR KITCHEN SERVICE

INC. 399 FERRY STREET EVERETT, MA 02149 (617) 389-1899 (888) 590-1899 (617) 389-1996 FAX

MICHIGAN

GCS SERVICE INC. LIVONIA, MI (248) 426-9500 800-772-2936 FAX: (248) 426-7555

JACKSON SERVICE COMPANY 3980 BENSTEIN RD.

COMMERCE TWSHP, MI 48382 (248) 363-4159 800-332-4053 FAX: (248) 363-5448

GCS SERVICE INC.

GRAND RAPIDS, MI (616) 241-0200 800-823-4866 FAX: (616) 241-0541

MINNESOTA

GCS SERVICE INC. MINNEAPOLIS, MN (612) 546-4221 800-345-4221 FAX: (612) 546-4286

GENERAL PARTS, INC. 11311 HAMPSHIRE AVENUE SOUTH BLOOMINGTON, MN 55438-2456 (952) 944-5800 (800) 279-9980 (800) 279-9980 FAX

MISSISSIPPI

GCS SERVICE INC. JACKSON, MS (601) 956-7800 800-274-5954 FAX: (601) 956-1200

GCS SERVICE INC. MEMPHIS. TN

MEMPHIS, TN (901) 366-4587 800-262-9155 FAX: (901) 366-4588

MISSOURI

GCS SERVICE INC. KANSAS CITY, MO (816) 920-5999 800-229-6477 FAX: (816) 920-7387

GCS SERVICE INC.

ST. LOUIS, MO (314) 638-7444 800-284-4427 FAX: (314) 638-0135

KAEMMERLIN PARTS & SVC.

2728 LOCUST STREET ST. LOUIS, MO 63103 (314) 535-2222 FAX: (314) 535-6205 petek@kps.stl.com

GENERAL PARTS, INC.

1101 EAST 13TH STREET KANSAS CITY, MO 64106 (816) 421-5400 (800) 279-9967 (816) 421-1270 FAX

MONTANA

RESTAURANT APPLIANCE SVC.

7219 ROOSEVELT WAY NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

NEBRASKA

GOODWIN - TUCKER GROUP 7535 D STREET OMAHA, NE 68124 (402) 397-2880

(402) 397-2880 800-228-0342 FAX: (402) 397-2881 askme@goodwintucker.com

NEVADA

HI TECH COMMERCIAL SERVICE 1840 STELLA LAKE STREET NORTH LAS VEGAS, NV 89106 (702) 649-4616 (877) 924-4832 FAX: (702) 649-4607 larry@hitechnv.com

5454 LOUIE LANE RENO, NV 89511 (775) 852-9696 FAX: (775) 852-5104

GCS SERVICE INC.

LAS VEGAS, NV (702) 450-3495 800-500-9060 FAX: (702) 450-3491

NEW HAMPSHIRE

GCS SERVICE INC.

CHELSEA, MA (617)889-9393 800-225-1155 FAX: (617) 889-1222

ACE SERVICE CO.

95 HAMPTON AVE. NEEDHAM, MA 02494 (781) 449-4220 800-225-4510 MA & NH FAX: (781) 444-4789 taceservice@aol.com

MASSACHUSETTS RESTAURANT SUPPLY

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 868-5331

NEW JERSEY

JAY HILL REPAIRS

90 CLINTON RD. FAIRFIELD, NJ 07004 (973) 575-9145 800-836-0643 FAX: (973) 575-5890 jhrepair@aol.com

GCS SERVICE INC.

EAST RUTHERFORD, NJ (973) 614-0003 800-399-8294 FAX: (973) 614-0230

GCS SERVICE INC.

PHILADELPHIA, PA (215) 925-6217 800-441-9115 FAX: (215) 925-6208

ELMER SCHULTZ SERVICES

201 W. WASHINGTON AVE. PLEASANTVILLE, NJ 08232 (609) 641-0317 800-378-1641 FAX:(609) 641-8703 elmer2@erols.com

NEW YORK

APPLIANCE INSTALLATION AND SERVICE CORP. 1336 MAIN STREET

BUFFALO, NY 14209 (716) 884-7425 800-722-1252 FAX: (716) 884-0410 ais@worldnet.att.net

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTER =

NEW YORK TO PENNSYLVANIA

B.E.S.T. INC.

3003 GENESEE STREET BUFFALO, NY 14225 (716) 893-6464 800-338-5011 FAX: (716) 893-6466 bestserv@aol.com

DUFFY'S EQUIPMENT SVC.

3138 ONEIDA STREET SAUQUOIT, NY 13456 (315) 737-9401 800-443-8339 FAX: (315) 737-7132 duffyequip@aol.com

NORTHERN PARTS & SVC.

21 NORTHERN AVENUE PLATTSBURGH, NY 12903 (518) 563-3200 800-634-5005 FAX: (800) 782-5424 info@northernparts.com

GCS SERVICE INC.

BROOKLYN, NY (718) 486-5220 800-969-4271 FAX: (718) 486-6772

ALL SERVICE KITCHEN

EQUIPMENT REPAIR 10 CHARLES ST. NEW HYDE PARK, NY 11040 (516) 378-1176 FAX: (516) 378-1735

ALL ISLAND REPAIRS 40-9 BURT DRIVE DEER PARK, NY 11729 (631) 242-5588 FAX: (631) 242-6102

NORTH CAROLINA

AUTHORIZED APPLIANCE

SERVICECENTER 1020 TUCKASEEGEE RD. CHARLOTTE, NC 28208 (704) 377-4501 (800) 532-6127 FAX:(704) 377-4504

AUTHORIZED APPLIANCE

SERVICECENTER 800 N. PERSON ST. RALEIGH, NC 27604 (919) 834-3476 FAX:(919) 834-3477 AUTHORIZED APPLIANCE SERVICECENTER 904 S. MARSHALL ST. WINSTON-SALEM, NC 27403 (336) 725-5396 FAX:(336) 721-1289

AUTHORIZED APPLIANCE

SERVICECENTER 104 HINTON AVE. WILMINGTON, NC 28403 (910) 313-1250 FAX:(910) 313-6130

WHALEY FOODSERVICE

8334-K ARROWRIDGE BLVD CHARLOTTE, NC 28273 (704) 529-6242 FAX: (704) 529-1558 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

203-D CREEK RIDGE RD. GREENSBORO, NC 27406 (336) 333-2333 FAX: (336) 333-2533 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

335-105 SHERWEE DRIVE RALEIGH, NC 27603 (919) 779-2266 FAX: (919) 779-2224 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

6418-101 AMSTERDAM WAY WILMINGTON, NC 28405 (910) 791-0000 FAX: (910) 791-6662 info@whaleyfoodservice.com

NORTH DAKOTA

GCS SERVICE INC.

MINNEAPOLIS, MN (612) 546-4221 800-345-4221 FAX: (612) 546-4286

GENERAL PARTS, INC.

10 SOUTH 18TH STREET FARGO, ND 58103 (701) 235-4161 (800) 279-9987 (701) 235-0539 FAX

OHIO

CERTIFIED SERVICE CENTER

890 REDNA TERRACE CINCINNATI, OH 45215 (513) 772-6600 800-543-2060 FAX: (513) 612-6600 sbarasch@certifiedsc.com

CERTIFIED SERVICE CENTER

171J-K NORTH HAMILTON RD. COLUMBUS, OH 43213 (614) 751-3769 (866) 862-1252 FAX: (614) 751-5792 jadkins@certifiedsc.com

CERTIFIED SERVICE CENTER

6025 N. DIXIE DRIVE DAYTON, OH 45414 (937) 898-4040 (800) 257-2611 FAX: (937) 898-4177 dharvey@certifiedsc.com

COMMERCIAL PARTS & SVC. OF COLUMBUS

5033 TRANSAMERICA DRIVE COLUMBUS, OH 43228 (614) 221-0057 800-837-8327 FAX: (614) 221-3622

GCS SERVICE INC.

COLUMBUS, OH (614) 476-3225 800-282-5406 FAX: (614) 476-1196

ELECTRICAL APPLIANCE

REPAIR SVC. 5805 VALLEY BELT ROAD CLEVELAND, OH 44131 (216) 459-8700 800-621-8259 FAX: (216) 459-8707 tomr@electapplrep.com

OKLAHOMA

HAGAR RESTAURANT EQMT.

1229 W MAIN STREET OKLAHOMA CITY, OK 73106 (405) 235-2184 800-445-1791 FAX: (405) 236-5592

OREGON

RON'S SERVICE

16364 SW 72ND AVE PORTLAND, OR 97224 (503) 624-0890 800-851-4118 FAX: (503) 684-6107 Irobinson@ronsservice.com

PENNSYLVANIA

A.I.S. COMMERCIAL PARTS & SERVICE 1816 WEST 26TH STREET ERIE, PA 16508 (814) 456-3732

(814) 456-3732 800-332-3732 FAX: (814) 452-4843 aiserie@aol.com

ELMER SCHULTZ SVC.

540 NORTH 3RD STREET PHILADELPHIA, PA 19123 (215) 627-5400 FAX: (215) 627-5408 elmer2@erols.com

GCS SERVICE INC.

PHILADELPHIA, PA (215) 925-6217 800-441-9115 FAX: (215) 925-6208

GCS SERVICE INC.

HARRISBURG, PA (717) 564-3282 800-367-3225 FAX: (717) 564-9286

GCS SERVICE INC.

PITTSBURGH, PA (412) 787-1970 800-738-1221 FAX: (412) 787-5005

K & D PARTS AND SERVICE CO.

1833-41 N CAMERON STREET HARRISBURG, PA 17103 (717) 236-9039 800-932-0503 FAX: (717) 238-4367 kdparts-service@paonline.com

CLARK SERVICE & PARTS

306 AIRPORT DRIVE BOX 10 SMOKETOWN, PA 17576 (717) 392-5590 (717) 392-5735

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS =

RHODE ISLAND TO WISCONSIN

RHODE ISLAND

GCS SERVICE INC. EAST PROVIDENCE, RI (401) 434-6803 800-462-6012 FAX: (401) 438-9400

SUPERIOR KITCHEN SERVICE INC

669 ELMWOOD AVENUE PROVIDENCE, RI 02907 (888) 590-1899 (401) 781-1996 FAX

SOUTH CAROLINA

AUTHORIZED APPLIANCE SERVICECENTER

1811 TAYLOR ST. COLUMBIA, SC 29202 (803) 254-8414 FAX: (803) 254-5146

AUTHORIZED APPLIANCE SERVICECENTER

2249 AUGUSTA RD. GREENVILLE, SC 29605 (864) 235-9616 FAX: (864) 235-9623

WHALEY FOODSERVICE REPAIRS 126&US1

P.O. BOX 4023 WEST COLUMBIA, SC 29170 (803) 791-4420 800-877-2662 FAX: (803) 794-4630 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

748 CONGAREE ROAD GREENVILLE, SC 29607 (864) 234-7011 800-494-2539 FAX: (864) 234-6662 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

1406-C COMMERCE PL. MYRTLE BEACH, SC 29577 (843) 626-1866 FAX: (843) 626-2632 info@whaleyfoodservice.com WHALEY FOODSERVICE REPAIRS 4740-A FRANCHISE STREET N. CHARLESTON, SC 29418 (843) 760-2110 FAX: (843) 760-2255

info@whaleyfoodservice.com

SOUTH DAKOTA

GCS SERVICE INC. MINNEAPOLIS, MN (612) 546-4221 800-345-4221 FAX: (612) 546-4286

GENERAL PARTS, INC.

10 SOUTH 18TH STREET FARGO, ND 58103 (701) 235-4161 (800) 279-9987 (701) 235-0539 FAX

TENNESSEE

GCS SERVICE INC. MEMPHIS. TN (901) 366-4587 800-262-9155 FAX: (901) 366-4588

GCS SERVICE INC. NASHVILLE, TN (615) 244-8050 800-831-7174 FAX: (615) 244-8885

TEXAS

ARMSTRONG REPAIR CENTER 5110 GLENMOUNT DRIVE HOUSTON, TX 77081 (713) 666-7100 800-392-5325 FAX: (713) 661-0520

gm@armstrongrepair.com

COMMERCIAL KITCHEN REPAIR

CO. 1377 N BRAZOS P.O BOX 831128 SAN ANTONIO, TX 78207 (210) 735-2811 800-292-2120 FAX: (210) 735-7421 brock@commercialkitchen.com

GCS SERVICE INC.

DALLAS. TX (972) 484-2954 800-442-5026 FAX: (972) 484-2531 GCS SERVICE INC. HOUSTON, TX (713)785-9187 800-868-6957

FAX: (713) 785-3979 **GCS/STOVE PARTS**

2120 SOLANA STREET FORT WORTH, TX 76117 (817) 831-0381 800-433-1804 FAX: (817) 834-7754 bud@stoveparts.com

UTAH

LA MONICA'S RESTAURANT EQMT. SVC. 6182 SOUTH STRATLER AVENUE (206) 524-8200 MURRAY, UT 84107 (801) 263-3221 800-527-2561 FAX: (801) 263-3229 lamonica81@aol.com

VERMONT

NORTHERN PARTS & SVC. 4874 S. CATHERINE STREET PLATTSBURGH, NY 12901 (518) 563-3200 800-634-5005 FAX: (800) 782-5424 info@northernparts.com

GCS SERVICE INC. CHELSEA. MA (617)889-9393 800-225-1155

FAX: (617) 889-1222

VIRGINIA

DAUBERS, INC. 7645 DYNATECH COURT SPINGFIELD, VA 22153 (703) 866-3600 800-554-7788 FAX: (703) 866-4071 daubers@aol.com

GCS SERVICE INC.

SILVER SPRING, MD (301) 585-7550(DC) (410) 792-0388(BALT) 800-638-7278 FAX: (301)495-4410

GCS SERVICE INC.

RICHMOND, VA (804) 672-1700 800-899-5949 FAX: (804) 672-2888

GCS SERVICE INC.

VIRGINIA BEACH, VA (757) 464-3500 800-476-4278 FAX: (757) 464-4106

WASHINGTON

GCS SERVICE INC. SEATTLE, WA (206) 763-0353 800-211-4274 FAX: (206) 763-5943

RESTAURANT APPLIANCE SER-VICE

7219 ROOSEVELT WAY, NE SEATTLE. WA 98115 800-433-9390 FAX: (206) 525-2890 info@restappl.com

WEST VIRGINIA

STATEWIDE SERVICE, INC. 603 MAIN AVE. NITRO, WV 25143

(304) 755-1811 (800) 441-9739 FAX: (304) 755-4001 sws3182@aol.com

WISCONSIN

APPLIANCE SERVICE CENTER, INC.

2439 ATWOOD AVE MADISON, WI 53704 (608) 246-3160 800-236-7440 FAX: (608) 246-2721 ascmad@execpc.com

APPLIANCE SERVICE

CENTER, INC. 6843 W. BELOIT RD. WEST ALLIS, WI 53219 (414) 543-6460 800-236-6460 FAX: (414) 543-6480 ascmil@execpc.com

APPLIANCE SERVICE CENTER

786 MORRIS AVE GREEN BAY, WI 54304 (920) 496-9993 800-236-0871 FAX: (920) 496-9927 ascfox@execpc.com

SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS =

WISCONSIN TO WYOMING/INTERNATIONAL

GENERAL PARTS, INC.

W223 N735 SARATOGA DRIVE WAUKESHA, WI 53186 (262) 650-6666 (800) 279-9946 (262) 650-6660 FAX

WYOMING

HAWKINS COMMERCIAL APPLI-ANCE SERVICE

3000 S. WYANDOT ST. ENGLEWOOD, CO 80110 (303) 781-5548 (800) 624-2117 FAX: (303) 761-5561

johns@hawkinscommercial.com

1640 S BROADWAY DENVER, CO 80210 (303) 778-1126 800-525-3532 FAX: (303) 778-0268 metroappls@aol.com

INTERNATIONAL

GLOBAL PARTS AND SUPPLY 7758 NW 72ND ST MIAMI, FL 33166 (305) 885-6353

H.D. SHELDON AND CO

19 UNION SQUARE, WEST NEW YORK, NY 10003 (212) 627-1759 (212) 924-6920

CANADA

THE GARLAND GROUP

1177 KAMATO ROAD MISSISSAUGA, ONTARIO L4W 1X4 (905) 206-8380 SALES (905) 624-1419 FAX: (905) 624-1851 SERVICE 800-427-6668 FAX: 800-361-7745