Encdis

INSTALLATION/OPERATION & TECHNICAL MANUAL

FOR JACKSON MODEL:

WHIRL WIZARD

Jackson

August 20, 2007 P/N 7610-011-70-65 (Revision D) www.jacksonmsc.com

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 THE DATE OF PURCHASE, BUT IN NO EVENT TO EXCEED (18) EIGHTEEN MONTHS FROM THE DATE OF SHIPMENT FROM THE FACTORY.

Jackson MSC 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 the applicable factory instruction manual furnished with the machine and the 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 MSC, within the continental United States, Hawaii and Canada, during the warranty period provided a Jackson MSC authorized service agency, or those having prior authorization from the factory, performs the service. Any repair work by persons other than a Jackson MSC 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 MSC.

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 MSC.

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

TRAVEL LIMITATIONS

Jackson MSC limits warranty travel time to (2) two hours and mileage to (100) one hundred miles. Jackson MSC 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 CARD

The warranty registration card supplied with the machine must be returned to Jackson MSC within 30 days to validate the warranty.

REPLACEMENT PARTS WARRANTY

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

PRODUCT CHANGES AND UPDATES

Jackson MSC 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 MSC. 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 MSC 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 the replacement of 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-Commercial) grade detergents, incorrect water temperature or pressure, or hard water conditions.



CALL 1-888-800-5672 TO REGISTER THIS PRODUCT! FAILURE TO DO SO WILL VOID THE WARRANTY!

LLAME AL 1-888-800-5672 PARA REGISTRAR ESTE PRODUCTO! AL NO HACERLO LA GARANTIA SERA ANULADA!

S.V.P. APPELER 1-888-800-5672 POUR ENREGISTRER CE PRODUIT, LA GARANTIE SERA ANNULEE POUR TOUT PRODUIT NON- ENREGISTREE

REVISION/ PAGE	REVISION DATE	MADE BY	APPLICABLE ECN	DETAILS	
D	08-20-2007	MAW	7933	Updated weldment numbers for cover and box weldments. Converted to centered layout.	



AJ-54CE

AJ = AJ Series of rack conveyors

- 54 = 54" wide machine from tub edge to tub edge
- 76 = 76" wide machine from tub edge to tub edge
- 90 = 90" wide machine from tub edge to tub edge

CE = Electrically-heated, hot water sanitizing dishmachine CS = Steam-heated, hot water sanitizing dishmachine

Model:	
Serial No.:	
Service Rep. Name:	
Phone No.:	

Jackson MSC LLC. 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 with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

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SECTION 1: SPECIFICATION INFORMATION

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WHIRL WIZARD

This unit can be adapted to most standard three compartment sink to provide recirculated water to assist in the removal of soil from ware. The entire unit will fit within the frame work of standard sinks, so no additional floor space is required.

For the 115 Volt unit, a one (1) horsepower motor and pump continually recirculates warm detergent laden water through a unique agitator mounted in the drain hole in the sink. For the 230 Volt unit, a three-quarter (3/4) horsepower motor and pump continually recirculates warm detergent laden water through a unique agitator mounted in the drain hole in the sink. The water exits through vanes located on the agitator causing a vortex in the water in the sink. This constant action, in conjunction with a low sudsing detergent, loosens food soil. A built-in thermostatically controlled heating system maintains water temperature between 110 and 120° Farenheit.

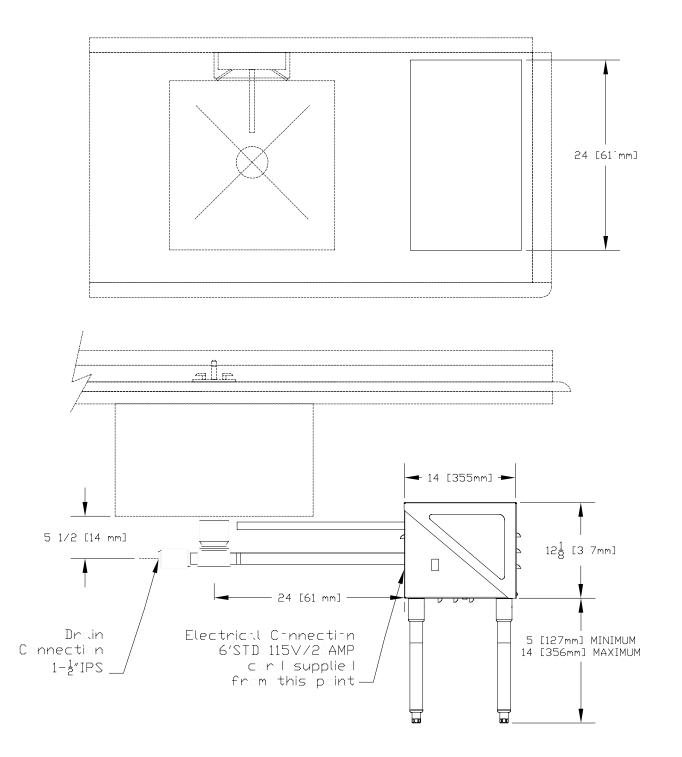
The unit includes the following:

- 1. For the 115 Volt unit, one (1) horsepower pump motor with built-in thermal overload protection. For the 230 Volt unit, a three-quarter (3/4) horsepower motor with built-in thermal overload protection.
- 2. Pump fitted with internal cutting blades.
- 3. Built-in thermostatically controlled heating system.
- 4. Illuminated power ON/OFF switch.
- 5. Heavy duty grounded power cord.
- 6. 304 stainless steel construction.

ELECTRICAL REQUIREMENTS:

MODEL	<u>VOLTS</u>	<u>HZ</u>	PHASE	TOTAL AMPS
WW-1	115	60	1	16.1
WW-1 WW-1	230 230	50 60	1 1	10.2 10.2

SECTION 1: SPECIFICATION INFORMATION DIMENSIONS



SECTION 2: INSTALLATION & OPERATION INSTRUCTIONS

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS =

INSTALLATION INSTRUCTIONS

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that the machine may have been hadled roughly during shipping. If there is damage to both the container and the machine, do not throw away the container. The machine has been inspected at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may have resulted in damage occuring to the machine. If such a situation does occur, do not return the unit to Jackson. Instead contact both the dealer you purchased the unit through and the carrier. Ask the carrier to send a representative out to inspect the damage and make a report of it. You normally have 48 hours to contact a carrier to report damages, but this varies based on locale. The best advice is to contact your carrier and dealer as soon as damage is discovered.

UNPACKING THE MACHINE: Once the machine has been removed from the container, ensure that there are no obvious missing parts. This may not be apparent at first glance. If you discover that a part is missing, contact Jackson MSC Inc. immediately.

LEVEL THE MACHINE:

- 1. Position the Whirl Wizard under the sink drainboard.
- 2. Adjust left to right and front to back.
- 3. Align inlet and outlet tubes with plumbing from main flow chamber (item 2).
- 4. To adjust the height, loosen the allen screws in each leg socket connector.

5. Slide leg out to desired height. The drain connection on the machine should be at the same level as the sink drain connection.

- 6. Tighten the allen head screws in each leg socket connector.
- 7. Fine adjustments in height can be made by turning the bullet foot in each leg.

INSTALLING THE MACHINE:

- 1. Locate the sink at the highest end of the drain slope.
- 2. Disconnect the existing drain plumbing from the sink.
- 3. Remove the crumb cup.
- 4. Clean off old plumber's putty from the sink. Add fresh putty to the sink flange.
- 5. Position the main flow chamber (item 2) through the bottom of the sink. From the bottom, slip the rubber washer (item 3), fiber washer (item 4), back-up flange (item 5) and mounting flange (item 6) on the main flow chamber.
- 6. Once in position, mount the jam spring (item 7) on to the main flow chamber. This will hold items 3 through 5 in place.
- 7. Tighten the screws in item 6 until the assembly is held in place. Care must be taken to position screws where they are accessible and will not be covered by the hose barb when assembled into the main flow chamber.
- 8. In the bottom of the main flow chamber (item 2), install the 1-1/2" NPT close nipple (item 10).
- 9. The 1-1/2" NPT tee (item 9) is screwed onto the 1-1/2" nipple (item 10).
- 10. From the tee (item 9) to the drain, install the following items: 1-1/2" close nipple (item 10) and 1-1/2" ball valve (item 11). Make sure the handle of the ball valve (item 11) is easily accessible by the operator.
- 11. On the sink side of the tee (item 9) install a 1-1/2" NPT hose barb (item 12).
- 12. On the inlet side of the main flow chamber (item 2) install a 1" NPT hose barb (item 8).
- 13. With different styles and types of sinks, the directional manifold (item 1) may require modification. The directional tubing may need to be bent to conform to the bottom of the sink or reduced in length. Since it is fabricated from thin wall stainless steel, a hacksaw can be used to cut the tubing.

HOSE CONNECTIONS:

1. Position the 1-1/2" ID intake line hose (item 13) with the Whirl Wizard as xlose to the sink as possible, mark and cut to the length required.

2. Repeat with the 1" ID discharge line hose (item 14).

3. Connect the intake and discharge line hoses with hose clamps (item 15) to their respective connections.

NOTE: ENSURE THAT THE HOSE CLAMPS ARE TIGHT BEFORE OPERATING THE UNIT.

CAUTION: IF DIRECT FLOOR DRAIN IS UNDER OR NEAR MACHINE, MAKE CERTAIN THAT ADEQUATE PROTEC-TION IS PROVIDED TO PREVENT WATER SPLATTER FROM DAMAGING THE UNIT.

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS —

INSTALLATION INSTRUCTIONS (CONTINUED)

ELECTRICAL POWER CONNECTION:

1. The Whirl Wizard requires a dedicated 20 amp, 115 volt single phase circuit. 2. A 20 amp NEMA 5-20R receptacle is required for the NEMA 5-20P cord set and plug shipped with the machine.

CAUTION: A NEMA 5-20R RECEPTACLE IS REQUIRED. IF NOT AVAIL-ABLE A QUALIFIED ELECTRICIAN SHOULD INSTALL THE CORRECT RECEPTACLE.

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

OPERATION INSTRUCTIONS

OPERATION:

1. Install the directional manifold (item 1) into the main flow chamber (item 2).

- 2. Fill the sink with hot water.
- 3. Add the proper chemicals (non-foaming detergent) for soaking pots, pans and utensils.
- 4. Pre-scrap pots, pans and utensils of all large loose soil.

NOTE: THE WHIRL WIZARD POT SINK IS NOT A GARBAGE DISPOSAL! IT IS INTENDED TO SOFTEN SOIL WHICH IS DIFFICULT TO REMOVE. BAKED-ON SOIL MAY STILL REQUIRE ADDITIONAL EFFORT TO REMOVE.

5. With the power switch in the ON position, place the soiled pots, pans and utensils into the sink.

NOTES: PLACEMENT OF POTS AND PANS SHOULD BE DONE IN A MANNER THAT NOTHING WILL OBSTRUCT THE MAIN FLOW OF WATER.

6. Allow pots, pans and utensils to soak for 15 to 20 minutes to soften and loosen soil.

CLEANING INSTRUCTIONS:

- 1. Turn the power switch to the OFF position.
- 2. Turn the ball valve to the open position and drain the sink.
- 3. When the sink is empty, remove the directional manifold (rotate counter-clockwise) and clean.
- 4. Re-install the directional manifold into the main flow chamber.

CHANGING DIRECTION OF MACHINE INSTALLATION:

- 1. Remove the cover from the Whirl Wizard.
- 2. Remove the power switch from the side and insert into the pre-punched hole in the opposite end of the unit.
- 3. To extend the wiring, cut the tie wraps. There is sufficient length to allow the power switch to be relocated.
- 4. Re-install the cover.

SECTION 3: PREVENTATIVE MAINTENANCE

SECTION 3: PREVENTATIVE MAINTENANCE PREVENTATIVE MAINTENANCE

The dishmachines covered in this manual are designed to operate with a minimum of interaction with the operator. However, this does not mean that some items will not wear out in time. Jackson highly recommends that any maintenance and repairs not specifically discussed in this manual should be performed by QUALIFIED SERVICE PERSONNEL ONLY. Performing maintenance on your dishmachine may void your warranty if it is still in effect, so if you have a question or concern, do not hesitate to contact Jackson.

There are many things that operators can do to prevent catastrophic damage to the dishmachine. One of the major causes of component failure has to do with prescrapping procedures. A dishmachine is not a garbage disposal; any large pieces of material that are put into the machine shall remain in the machine until they are either broken up (after spreading out on your ware!) or physically removed. Strainers are installed to help catch debris, but they do no good If they are clogged. Have operators regularly inspect the pan strainers to ensure (1) that they are free of soil and debris and (2) they are laying flat in the tub.

When cleaning out strainers, do NOT beat them on waste cans. The strainers are made of metal and can be forgiving; but once severe damage is done, it is next to impossible for the strainer to work in the way it was designed to. Wipe out strainers with a rag and rinse under a faucet if necessary. For stubborn debris, a toothpick should be able to dislodge any obstructions from the perforations. Always ensure that strainers are placed back in the machine before operation and that they lay flat in the tub.

You may wish to also refer to the page entitled "Detergent Control" in order to learn more about how your water hardness will effect the performance of your machine. Hard water makes dishmachines work harder and decreases efficiency.

Again, it is important to remind operators that trying to perform corrective maintenance on the dishmachine could lead to larger problems or even cause harm to the operator. If a problem is discovered; secure the dishmachine using proper shut down procedures as listed in this manual and contact Jackson.

Some problems, however, may having nothing to do with the machine itself and no amount of preventative maintanence is going to help. A common problem has to do with temperatures being too low. Verify that the water temperatures coming to your dishmachine match the requirements listed on the machine data plate. There can be a variety of reasons why your water temperature could be too low and you should discuss it with Jackson to determine what can be done.

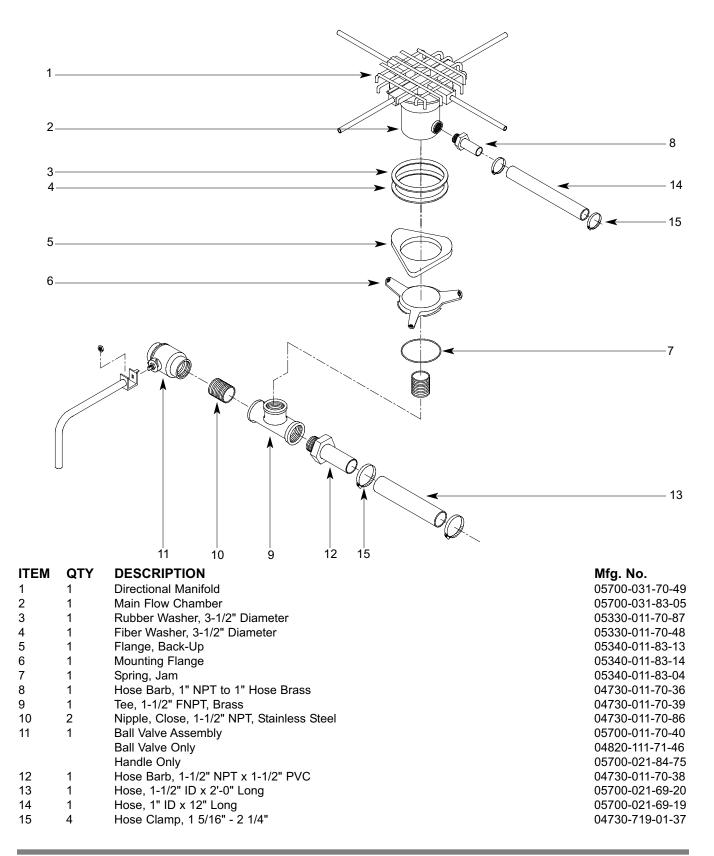
By following the operating and cleaning instructions in this manual, you should get the most efficient results from your machine. As a reminder, here are some steps to take to ensure that you are using the dishmachine the way it was designed to work:

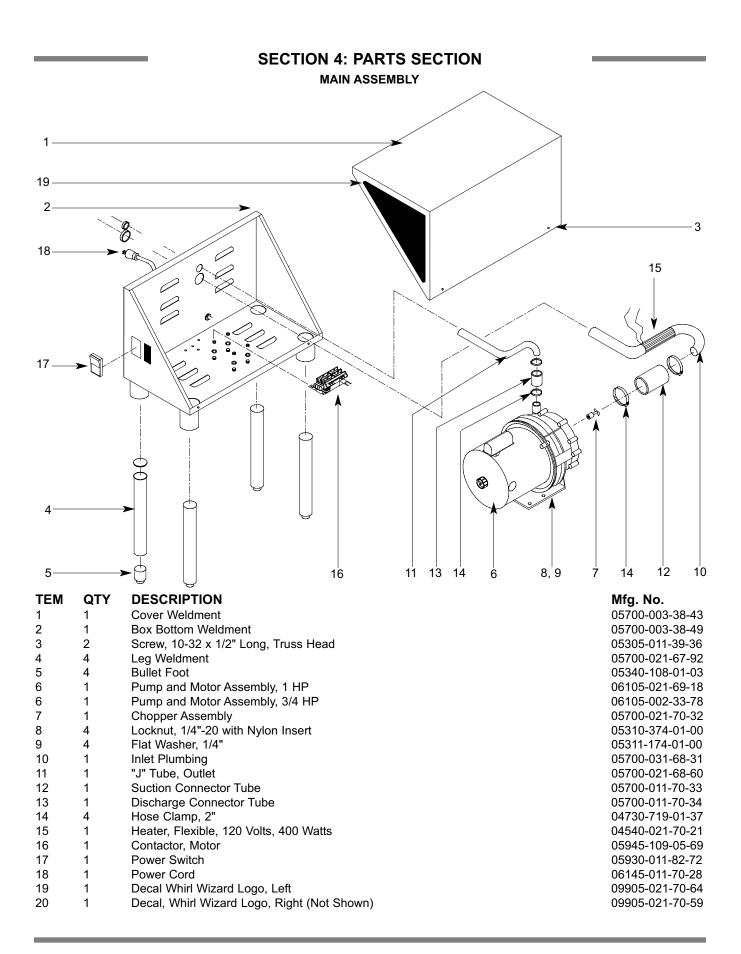
- 1. Ensure that the water temperatures match those listed on the machine data plate.
- 2. Ensure that all strainers are in place before operating the machine.
- 3. Ensure that all wash and/or rinse arms are secure in the machine before operating.
- 4. Ensure that drains are closed/sealed before operating.
- 5. Remove as much soil from dishes by hand as possible before loading into racks.
- 6. Do not overfill racks.
- 7. Ensure that glasses are placed upside down in the rack.
- 8. Ensure that all chemicals being injected to 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.
- 10. Always contact Jackson 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: PARTS SECTION

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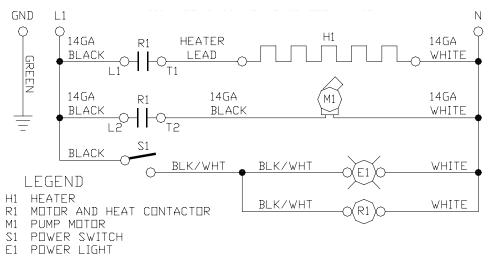
INSTALLATION ASSEMBLY





SECTION 5: ELECTRICAL DIAGRAMS

SECTION 5: ELECTRICAL SCHEMATICS WHIRL WIZARD 115 VOLT - 60 HZ - SINGLE PHASE

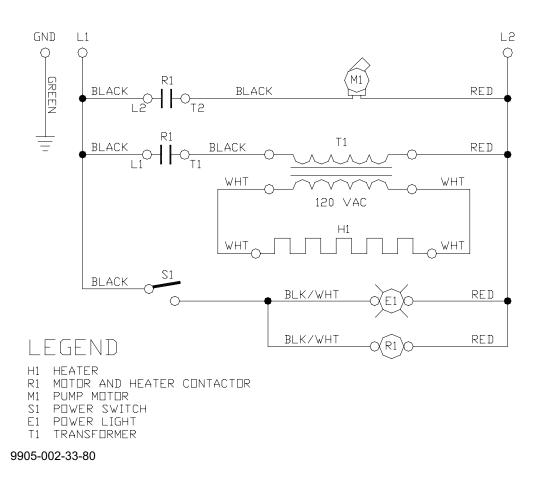


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SEQUENCE OF OPERATION

- 1. After the sink is filled with water, power switch (S1) is placed in the "ON" position.
- 2. Motor contactor (R1) is energized.
- 3. Pump motor (M1) starts.
- 4. Heater element (H1) is energized.
- 5. Power light (E1) is energized.

NOTE: THE HEATER ELEMENT CONTAINS AN INTERNALLY-MOUNTED THERMOSTAT TO REGULATE THE TEMPERA-TURE OF THE ELEMENT.



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ALABAMA TO FLORIDA

ALABAMA

JONES-McLEOD APPLIANCE SVC

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

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

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GENERAL PARTS, INC.

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HERITAGE SERVICE GROUP 1532 RIVER OAKS WEST NEW ORLEANS, LA 70123 (504) 734-8864

(800) 499-2351 (504) 733-2559 FAX

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PINE TREE FOOD EQUIP-MENT

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

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March 13, 2007