

INSTALLATION/OPERATION AND SERVICE MANUAL

FOR JACKSON MODEL:

MODEL 24 B/BF

AFTER S/N 14389 BEFORE S/N 21800



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 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.

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SPECIFICATIONS JACKSON DISHWASHER MODEL 24 B - BF*

OPERATING CAPACITY 100% Racks per hour Dishes per hour Glasses per hour	24B 21 525 525
OPERATING CYCLE Wash Time — seconds	120
Rinse Time — seconds Total Cycle — seconds	15 150
WASH TANK CAPACITY (Gallons) RINSE TANK CAPACITY (Gallons) WASH PUMP CAPACITY (GPM)	5.65 3 60
WATER REQUIREMENTS 100% Inlet Temperature *F	140*
Gallons per hour Flow Pressure, PSI Flow, gallons per minute	52.3 20 7.1
Inlet size — IPS Drain size — O.D.	¥2** 1 ¥2**
WASH PUMP MOTOR (HP)	Y2
WASH HEATER (kw) RINSE HEATER (kw)	1.0 5.0
ELECTRICAL REQUIREMENTS (See below for detail	is, under Electrical Rating)
DIMENSIONS	
Height, with Top Height, with no Top Width	36" 34½" 24"
Clearance, Wall to Machine Depth Maximum Height for Dishes	2¼" 24" 14"
Rack Size .	19%"

NOTE VENTED BACK

*ALL 'F' MODELS ARE FREE STANDING (Top and Side Panels)

ELECTRICAL RATING

MODEL	VOLTS	CYCLE	PHASE	APPROX.	TOTAL LOAD AMPS
248	220	60	1	35	Refer to
24B	208	60	1	35	Machine Data
24B	208/220	50	1	28	Plate

Specifications subject to change without notice.

GENERAL INSTRUCTIONS

(INSTALLATION)

Note: Read the following instructions carefully, Proper Installation of your Jackson Dishwasher will assure proper machine operation.

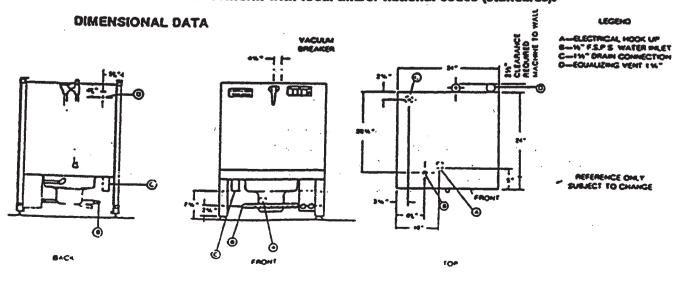
Uncrating 24:

- 1. Remove straps around carton.
- 2. Open top flaps of dishwasher carton.
- Remove any packing from top and sides of machine that can be done with ease from top.
- 4. Slide carton sleeve upward over top of dishwasher, set to one side.
- 5. Lift dishwasher and wooden base from carton base.
- 6. Move dishwasher to general installation area.
- 7. Remove bolts holding wooden base to machine and screw in adjustable feet supplied.
- 8. Reassemble wash and finse assemblies in machine using sketch and instructions in this manual.
- 9. Set dishwasher in place, ready for installation.

Note: NSF base cradle installation must be field installed on all AF and BF models. Cradle goes around bottom; secure in place using liquid adhesive.

installation instructions:

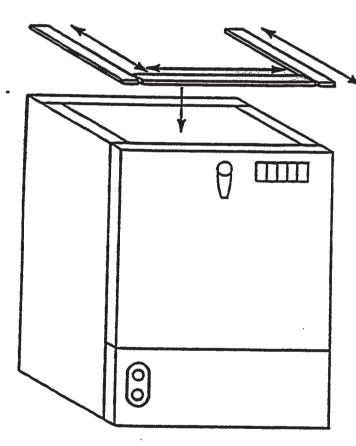
- 1. The dishwasher can be leveled to the proper height by adjusting the adjustable feet on the four corners. The front of the unit should be %" to %" higher than the back.
- 2. Refer to the dimensional data sketch for connections.
- 3. The drain from the machine is a GRAVITY DRAIN SYSTEM and should, therefore, have the proper drop from the machine to the kitchen's drain system. The drain connection is located to the left rear of the machine when facing the machine's door. The drain fitting is 1½" OD tube size. 7" from floor.
- 4. IMPORTANT-PLEASE READ-Located on the back upper left corner of this unit is a steam equalizing vent. This vent in no way should be blocked off or prevented from allowing steam to be vented to the outside of the unit or from under the cabinet in which the unit is installed. Never pipe the steam downward toward the floor. (SEE PAGE 4 IF BEING IN-STALLED UNDER A COUNTER.)
- 5. The electrical connections should be made to the terminal board located at the left center front. The terminals are marked L1, and Neutral. Install proper circuit breaker, wire and conduit size to conform with local and/or national codes (standards).



Installation of Model 24 Top and Table gasket

These instructions are to be used for applying the adhesive backed sponge rubber strip to the top of the machine prior to setting the table in place.

included with the Model 24 table is a 6 foot length of ¼ " thick x 1" wide sponge rubber adhesive backed stripping.



instructions for applying gasket:

- Place one end of the stripping along the complete side of the leg support flange and cut it off.
- Repeat the same procedure along the other side.
- 3. Place the remaining place along the front edge, fit it in between the aide places and cut it to length.
- 4. Remove the backing and set the strips in place.

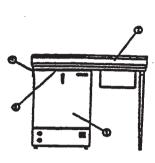
Instructions for Installation under a porous counter top:

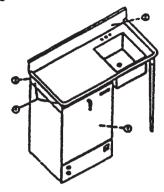
- If possible, a hole should be cut through the counter top directly above the equalizing vent.
 A piece of 1%" OD pipe is then inserted through the hole into the vent opening and piped to the outside.
- 2. If cutting a hole in the counter is not possible, then a piece of stainless steel 36" wide by 36" long bend in the middle at 90° should be centered directly over the vent to allow the steam to condensate on it when it comes out of the vent.
- 3. It is very important that this vent be kept open and cool air allowed to circulate around the unit.

Installation of Model 24 Dishwasher Under Dishtable:

- 1. On the end of the table, locate bracket #4 opposite the sink end.
- 2. A square rubber gasket #3 is supplied and should be secured to top frame of dishwasher with caulk or suitable adhesive.
- 3. Place dishtable #2 where it is to be installed and support the machine's end.
- 4. Slide dishwasher #1 underneath dishtable #2 so that the outside of machine is positioned against the guide bracket #4. Make sure dishtable and dishwasher are in desired permanent location.

- 5. Using the two holes in bracket #4 as a guide, drill two holes % diameter in the side panel of machine. Note: Drill through first thickness of metal only.
- 6. Using the self-tapping screws supplied, screw them through bracket #4 and into the side panel of machine until screws are tight.

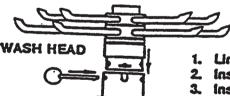




Removal of Pan Strainer for Cleaning: (Wash and rinse head assemblies must be removed prior to removing strainer.)

- 1. Turn heat switch 'off' and drain machine by depressing drain switch for approximately 50 seconds.
- 2. Remove wing nut from rinse feed pipe, remove rinse head assembly by pulling forward.
- 3. Remove wing nut from upper pump housing, wash head may now be lifted out.
- 4. Pan strainer now accessible, lift out and clean thoroughly.
- 5. Clean around pump intake with bristle brush.
- 6. Replace stainer pan.
- 7. Re-install wash and rinse head assemblies.
- 8. Clean strainer pan daily or as needed to insure proper machine operation.

Installation of Wash Head and Rinse Arm Assemblies: (Items disassembled for shipment)



- 1. Line holes up on wash head assembly to match slots in pump housing.
- 2. Insert wash head assembly down into upper pump housing as far as possible
- 3. Insert retaining pin to secure wash head to pump housing.

RINSE ARM ASSEMBLY

1. Line up stud to match with slot in nipple,

Insert rinse arm assembly into female receptical protrudeing through back of machine.

3. Insert lanyard pin to secure rinse arm assembly properly.

4. Make certain end plugs are secured properly in rinse tubes.

GENERAL INSTRUCTIONS

Note: Read the following instructions carefully. Proper operation of your Jackson Dishwasher will assure clean and sanitized glasses and dishes, at optimum efficiency.

Dish Preparation:

- 1. Scrape dishes thoroughly.
- 2. Pre-wash dishes by soaking or with hose.
- 3. Place dishes and cups in dish rack, cups upside down.
- 4. Place glasses and silverware in combination glass-silverware rack, glasses upside down. Scatter silverware loosely on bottom.
 - Note: Sliverware in the upright position washes and rinses better than lying flat. These sliverware compartment racks are available through your dealer or Service Agency.

Operators Instructions:

- 1. Make sure clean pan strainer is in place and slide empty rack in machine.
- 2. Place start rocker switch in center position.
- 3. Close door and lock latch.
- 4. Push top of fill switch and hold approximately 45 seconds.
- 5. Turn heater switch on.
- 6. Open door and slide rack of dishes into dishwasher.
- 7. Dispense proper amount of detergent in machine.
- 8. Start automatic wash and rinse cycle of dishwasher by pushing on top or bottom of start switch (with indicating light); light will come on.
- When light goes out, cycle has ended. Open door, slide out rack of clean dishes to air dry, slide in rack of dirty dishes, add detergent, close door and push start switch.
- 10. At end of mealtime, shut off by placing start rocker switch in center position and heater switch off. Drain machine by pressing top of drain switch approximately 50 seconds. Remove pan strainer after removing lower rinse arm and wash head assembly, clean inside of machine and replace clean strainer, wash head and lower rinse arm assembly. (See page on installation of Wash Head and Rinse Arm Assemblies Removal of Pan Strainer for Cleaning.)

Detergent Recommendations and Rinse Additives:

We suggest that you contact your local Detergent Specialist for the correct detergent and rinse additives for your area. To help you until one can be reached, we suggest that you use a non-foaming dishwasher detergent, approximately three tablespoons in wash tank when machine is filled and one teaspoon each cycle or load thereafter. This may have to be increased or decreased to obtain satisfactory results.

GENERAL INSTRUCTIONS

(PREVENTIVE MAINTENANCE

(THE FOLLOWING IS TO BE PERFORMED AS NEEDED.)

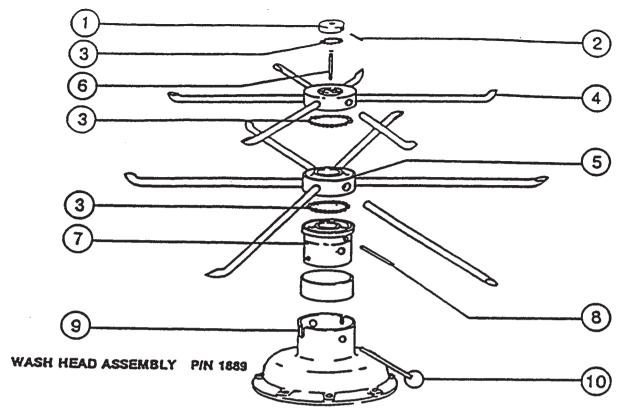
Note: Read the following instructions carefully. Proper maintenance of your Jackson Dishwasher will ensure optimum service with a minimum of down time.

- 1. Remove all lime and corrosion deposits.
 - e. Fill the machine with wash water as would ordinarily be done for washing.
 - b. Open door and place one cup or less of de-liming compound into the water. The compound is available from your detergent supplier.
 - c. Turn on the manual wash switch and allow to wash for five minutes.
 - d. Open door and examine the interior. All lime should be removed and parts should be shiny. If not, allow to wash for longer period.
 - After the interior is clean, with door closed, empty the wash water by depressing drain switch for approximately 50 seconds. Refill machine and allow to run for two minutes, then again drain the wash reservoir.
- 2. Clean around overflow strainers and drain hole.
 - a. Clean around overflow and strainer pan.
 - b. Clean around pump intake (toothbrush makes excellent tool for cleaning).
- 3. Clean Y-strainer on incoming water line. (Water to machine must be turned off for this operation)
 - a. Remove plug and clean strainer.
- 4. Clean rinse tubes.
 - Remove rinse assembly by disconnecting rinse feed pipe and removing end plugs on lower rinse.
 - b. Clean all rinse tubes and feed pipes with special brush supplied.
 - c. If spray holes in the rinse tubes are clogged, they may be cleaned with a pointed object.
- 5. Clean wash head assembly.
 - a. Loosen two wing nuts holding wash head assembly to pump.
 - b. Clean assembly at sink by flushing water through spray jets.
 - c. If spray jets are still plugged, use sharp object to dislodge and flush again.
 - d. Reinstall wash and rinse assemblies. (See page with instructions.)
- 6. Clean any deposits which may have built up on exterior moving parts.
 - a. Clean around door gasket.
 - b. Using a soft bristle brush, clean around switches on exterior of control panel. (Use no water.)
 - c. Use soft bristle brush, dlp in wash tank water and scrub inside door around gasket and hinges. Use clean cloth or paper towel to wipe off loose residue.

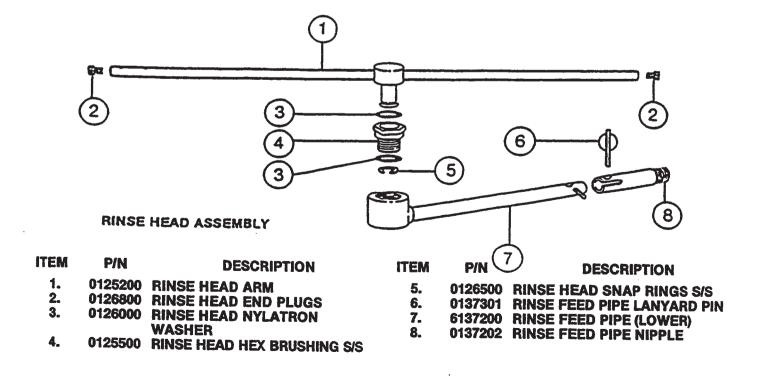
REMOVAL of RINSE and/or WASH HEAD ASSEMBLIES

(GENERAL INSTRUCTIONS)

- 1. Before opening the door, hold the drain switch in and drain all of the water out of the unit.
- 2. Open the door and allow the unit a few minutes to cool off.
- 3. With your fingers, loosen the wing nut holding the rinse feed pipe. When it is loose, pull the feed pipe out of the nipple and lay it to one side.
- 4. Locate Allen head set screw in the wash head cap, insert Allen wrench and loosen screw by turning counterclockwise.
- 5. Turn wash head cap counterclockwise until cap is removed and put cap in safe place.
- 6. Remove 14" stainless ball bearings carefully and put it in a receptacle in a safe place.
- 7. Life and remove small manifold with short tubes. Put it in a safe place.
- 8. Remove 1/4" ball bearing in similar method to step #6.
- 9. Lift and remove large manifold with large length tubes similar to step #7.
- 10. The lower fixed race may be left in place.
- 11. Clean ball bearings by soaking in de-liming solution.
- 12. Ball bearing race ways may be cleaned by either brushing with de-liming solution (toothbrush makes excellent tool) or gently clean by rubbing with fine sandpaper or emery cloth.
- 13. Rinse ball bearings and manifolds thoroughly.
- 14. To reassemble, first fill lower race to capacity with 1/4" ball bearings, then remove one. This will give proper movement needed during rotation of assembly.
- 15. Replace lower manifold and fill race fully with 1/4" ball bearings. Repeat, removing one only.
- 16. Replace upper manifolds and repeat necessary parts of step #14.
- 17. Replace wash cap by screwing on center shaft clockwise, finger tight.
- 18. Back off wash cap about 1/2 turn and tighten Allen set screw.
- 19. Rotate manifolds in opposite directions; see if they rotate freely. A rule of thumb is to select the longest tube in the bottom manifold and make sure it moves up and down at least %" and no more than %".
- 20. Replace the rinse assembly and pipe by aligning the stud on the feed pipe with the slot in the nipple. Push the feed pipe in gently as far as it will go and then secure it with the wing nut.
- 21. Close the front door and refill dishwasher.
- 22. Run through several cycles and recheck wash arms for easy movement. Adjust if necessary.



ITEM	P/N	DESCRIPTION	ITEM	P/N	DESCRIPTION
1. 2. 3. 4.	0194004	WASH HEAD CAP WITH RACE WASH HEAD CAP SET SCREW WASH HEAD BEARING 1/2" S/S	6. 7. 8. 9.	0187500 0193600 0188600 0109501	WASH HEAD CENTER SHAFT WASH HEAD FIXED RACE WASH HEAD SHAFT HOLDING PIN UPPER PUMP HOUSING
J.	0109500	W/TUBES	10.	0189805	WASH HEAD ASSEMBLY RETAINING PIN W/RING



TIMER for MODEL 24 DISHWASHERS

General Description:

The timer is a self-contained (frame mounted) timer of the repeating cycle type. It is mounted on the control panel of Jackson Automatic Dishwashing Machines, to control the automatic functions of these-machines. It consists of a clock motor which operates on 60 cycle, AC, 110VAC or 50 cycle, AC, 220VAC. In addition to the clock motor, the timer also contains a driven cam arrangement which operates three micro switches.

Principle of Operation:

The timer controls various operations of the automatic washers as per wiring diagram for each machine; however, the timing cycle and the micro switches are the same for each model. The time for One Complete Revolution of the cam shaft is approximately 300 seconds, allowing two wash and two rinse operations for each complete revolution of the cam shaft. The micro switch nearest the timer motor is the hold circuit and uses both the NO and NC contacts. The middle micro switch controls the wash and uses the NO contact. The micro switch farthest away from the timer motor controls the rinse and uses just the NC contact.

Service Instructions:

Caution: Always remove the power to the machine before working on the control panel or while servicing the components on the switch panel. All electrical checks should be made by qualified personnel.

Timer operation can be observed after removing the machine's kickplate by loosening the two screws holding it.

If it is determined that the timer is defective, it is recommended that a new timer be installed. If a new timer is not available, limited field maintenance can be accomplished by changing the micro switch.

A frozen contact on a micro switch will be indicated if one function of the timer is being executed all the time or if there is an absence of a click when the switch arm is actuated.

To Replace Micro Switch:

- 1. Remove all wires from the timer, properly tag them to assure proper replacement.
- 2. Remove the two screws which hold the timer to the control panel.
- 3. One screw holds the micro switches, cams and actuating arms in the frame. This screw is seen on the side opposite the motor. Remove this screw.
 - Note: Be sure to note which cam goes with which micro switch. Cam nearest timer motor has ½ of its edge raised; center cam has 2 large depressed areas; cam furthest from timer motor has two smaller depressed areas.
- 4. The unit can now be taken apart and the defective micro switch replaced.
- 5. Reassemble.
 - Note: The flanges on the cams are such that they only mesh in one direction.

The timer's cam drive system is equipped with a clutch to enable one to view the operations of the cams and micro switches. Remove power to machine before touching timer. Rotate cams by turning with fingers; cams will turn in one direction only. Do not force them. As cams actuate switches, listen for the 'click' of the switch or test the switches with an ohmmeter.

DEFECTIVE TIMER MOTOR

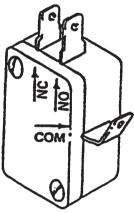
A defective motor is indicated by the fact that the cams do not rotate or the machine does not perform the automatic operations, or performs a specific part of the cycle continuously, but works okay on manual. Remember, the timer motor is controlled by the start switch and the hold micro switch; check this complete circuit before changing motor.

To Replace Motor:

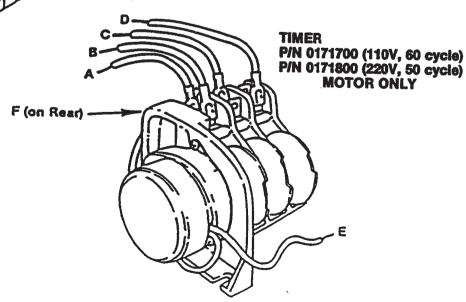
- 1. Remove motor leads from shorting bar and neutral.
- 2. Remove the two screws which hold the motor.
- 3. Replace with a new motor.

Note: it may be necessary to remove complete timer to replace motor; if so, follow-steps 1 and 2, previous page.

TYPICAL TIMER SWITCH PIN 1775



- A TO UPPER RIGHT TERMINAL START SWITCH
- **B-TO LOWER RIGHT TERMINAL START SWITCH**
- C TO BOTTOM TERMINAL MANUAL WASH SWITCH
- D TO UPPER TERMINAL OF RINSE SWITCH
- E-TO NEUTRAL TERMINAL
- F-SHORTING BAR CONNECTED TO ALL THREE TIMER SWITCHES, THIS TERMINAL



FUNCTION of SWITCHES, CIRCUIT BREAKER and INDICATING LIGHTS

Start switch: P/N 0158800 This switch controls the timer motor through two circuits. (See electrical diagram.) It is a three-position switch, up position = start; middle position = off; down position = start. To start, flip switch toggle in either up or down position; indicating light in center of panel will light verifying automatic cycle has started. After cycle ends and you are ready to start a new cycle, flip toggle to opposite position.

Cycle light:

This light comes on only when automatic cycle is in progress and extinguishes when cycle is complete. It is located in the start switch.

Manual wash switch: P/N 0155700 This switch is used to by-pass the timer and operate the wash pump manually. The wash pump will run as long as this switch is "on". The prime purpose of this switch is to extend the wash period for extremely soiled dishes before putting them through the normal automatic cycle. It may also be used as an emergency back-up should the timer ever fall to operate. The required wash time is indicated on the control panel (front).

Rinse/fill switch: P/N 0154300 This switch is spring-loaded and must be held in its up position to operate. When switch is operated, water is allowed to fill machine through the rinse heads. It may be used as an emergency back-up in case of timer failure for rinsing dishes. The required rinse time is indicated on the front control panel.

Heat switch: P/N 0157800

This switch applies power to the heat circuits which are composed of automatic control devices that turn heaters on and off to maintain required temperatures.

Heat light:

This indicating light remains lit all the time the heat switch is on. It is located in the heat switch.

Drain switch: P/N 0160900 This switch controls the manual draining of the unit at the end of a meal period or at the end of the day. It is a spring-loaded switch and must be held in its up position to operate. The switch when activated causes the drain valve to open and the motor to go into reverse, pumping the water out of the sump into the drain line. This switch should be held for approximately 50 seconds.

REPLACEMENT of SWITCHES in FRONT DOOR

There are five switches installed in the front door. These are the start, drain, manual wash, rinse/fill and heater switches.

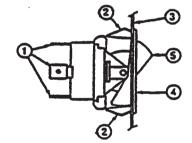
Before working on the machine, it is important that the power be turned off at the customer's circuit breaker to prevent the possibility of electrical shock; trip the breaker to the "Off" position.

The five rocker switches are mounted in a rectangular hole held in position by a bracket. These switches are designed to be released from the inside and pushed outward. The spring sides must be depressed to release the switch and bracket from the hole. To remove the bracket from the switch, wedge a screwdriver in between them then lift up and move off.

If the switch is found to be defective, mount a new one into the bracket and insert it into the hole in the control box. Make sure that the tab on the switch is in the proper notch on the bracket for easy operation of the switch. Replace the wires from the used switch terminal by terminal on to the new switch.

Power can now be applied to the dishwasher and run through cycles checking all operations.

- 1. CONNECTION TERMINALS
- 2. BRACKET SPRING SIDES
- 3. PANEL PLATE
- 4. BRACKET FRONT
- 5. ROCKER BUTTON

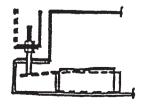


INTERLOCK SYSTEM

The Interlock System is designed to prevent the machine from operating when the front door is opened or not latched properly.

The Interlock System consists of two safety switches, one mounted so that the door latch has to be closed to complete the circuit. The other switch is located so that a pin on the machine depresses a safety switch mounted on the door, to complete the circuit. Either of these switches, if not depressed, will prevent the machine from operating. Basically, the door must be closed and the door latch locked in order for the machine to function.





FRONT VIEW

DOOR SAFETY SWITCH (SIDE) P/N 0164100

DOOR LATCH SAFETY SWITCH P/N 0164100



Note: All electrical checks should be made by qualified service personnel.

If it's determined that the proper power is being applied to the machine's incoming terminal blocks, then further check of the safety switch should be made.

Note: This checkout would only be performed if none of the systems of the machine operate. This would mean that none of the switches, when depressed, will perform the function noted for that switch.

Example: Drain, fill, start or manual wash switches.

Proceed with checkout.

- 1. Remove power to the machine by turning circuit breaker that protects the machine to 'off' position.
- 2. Open the front door and remove screws holding inside panel of door.
- 3. Disconnect one wire from the switch closest to the door latch and using an ohmmeter, depress the lever of the switch and check that there is continuity across that switch. If there is no continuity, replace switch.
- 4. Check second safety switch located in top lefthand corner of door. Remove wire from one side of the switch and check for continuity with ohmmeter when switch is depressed. If there is no continuity, replace switch.
- 5. Replace inside door panel.
- 6. Re-apply power & re-check operation.

THERMOSTAT ADJUSTMENT

The thermostat can be adjusted by turning screw #1 (see picture) on the thermostat control box cover. (Remember the present setting, in case the problems are elsewhere in the control circuit.) A CW rotation is used to obtain a lower temperature setting and a CCW rotation is used to obtain a higher temperature setting. A % turn of screw #1 changes the temperature approximately 15°F. If screw #1 is turned all the way to its stop in either direction, adjust screw #2 as follows.

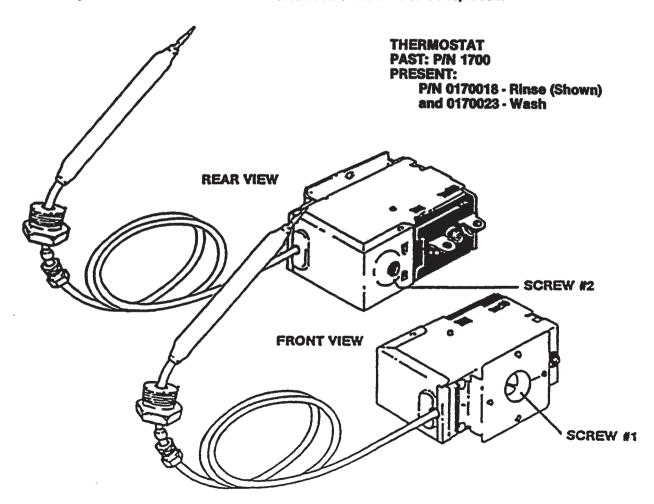
Note: Do not touch the screw sealed with red paint. When adjusting screw #2, power should be disconnected during adjustment.

Set screw #1 so that it can be turned equal distances in either direction, then:

- If screw #1 stopped while turning in CW direction, turn screw #2 in CW direction, slowly and only ½ of a turn or less per complete cycle of the unit.
- if screw #1 stopped while turning in CCW direction, turn screw #2 in CCW direction, slowly and only % of a turn or less per complete cycle of the unit.

Three-fourths of a turn will bring the thermostat to approximately the same setting obtained where screw #1 stopped. Check the present temperature setting before attempting any further adjustments. Use screw #1 for any further adjustments.

Making large moves in adjusting may cause misalignment, thus increasing chances that further adjustment cannot be made and thermostat will have to be replaced.



RINSE TANK HEATER SYSTEM

Function:

The Rinse Tank Heater System is electrically connected in the circuit with the control system functioning on 110/130V for 60 cycle and 220/240V for 50 cycle system and the power system functioning on 208/230V for both systems. The heat circuit is controlled by a heat switch (mounted on front door) and a thermostat (mounted near thermometer) which activates the coll on the heat relay. When higher temperature is required, power is applied to the heaters when the contacts of the heat relay are closed. Should the rinse tank thermometer read either too high or too low, follow checkout below.

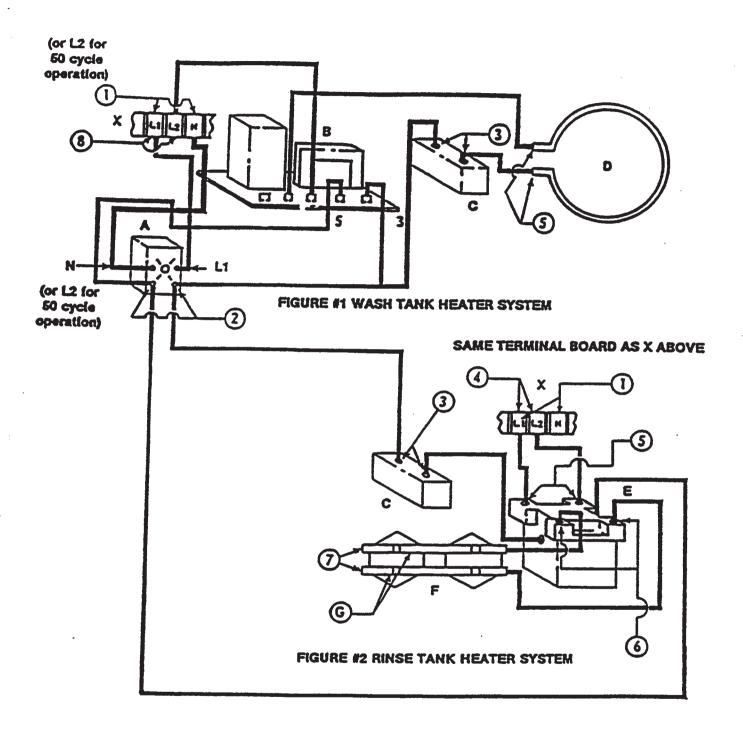
Checkout of Heater System for Rinse Tank: (Refer to drawing, Figure #2)

Note: The following checkout should be done by a qualified service person or electrician.

- 1. Turn off power to machine by tripping circuit breaker to 'off' position.
- 2. Remove front kick plate below door.
- 3. Make sure rinse temperature is below 180°.
- 4. Reapply power and observe heat relay (2pole) letter E, figure 2, (next to timer) as heat switch is turned on and off several times.
- 1. If heat relay contacts do not close, with heat switch on:
 - a. Check power supply at Position 1 on terminal board X. Voltage should be 110VAC on 60 cycle machine or 220VAC on 50 cycle machine (L1-L2).
 - b. Check Position 2; voltage should be 110V on 60 cycle machine or 220V on 50 cycle machine. If not, check switch as necessary.
 - c. Check Position 3; there should be 'zero' volts there. If not, readjust thermostat per thermostat instructions.
 - d. If voltage is being applied to Positions 1 and 2, then the relay should be replaced; coll-on relay probably defective.

2. To determine if elements are working:

- a. There's an insulated movable bar on the heat relay across the top of the two contacts. With an insulated probe, depress the bar and observe rinse thermometer; the temperature should rise noticeably in a minute or two. If it moves very slowly, it would indicate that one element is defective. If it moves consistently higher at a good rate, the elements are okay.
 - Note: A check with an amp probe, if available, can be made.
 - The elements together should draw 20 amps; one element will draw only 10 amps. Replace element if found defective.
- 3. If the heat relay closes:
 - a. Check power supply at Position 4 on terminal board X, right hand view. It should be 220V approx. If not, check circuit breaker at customers panel; replace if defective.
 - b. Check power at Position 5; voltage should be 220V. If not, check connections and wires for breaks; replace as necessary.
 - c. With heat switch on and relay closed, check power at Position 6; voltage should be 220V. If not, replace heat relay.
 - d. If No. 3 above checks out okay, check at Position 7; voltage should be 220V. If not, check wiring from heat relay to elements for loose connections or broken wires; repair as necessary.



- A HEAT SWITCH
- B WATER LEVEL CONTROL
- C · THERMOSTAT
- D (WASH) RING HEATER
- E RELAY
- F RINSE HEATERS
- G BUS BARS
- X TERMINAL BOARD

WASH TANK HEATER SYSTEM

Function:

The Wash Tank Heater Control system is electrically connected in the circuit to operate on 220V regardless whether system is 60 or 50 cycle. The heat circuit is controlled by a heat switch (mounted on front door), water level control (mounted middle of control panel), and thermostat (mounted near thermometers). When higher temperature is required, power is applied to the heater element through above controls. Should the wash tank thermometer read either too high or too low, follow checkout below.

Checkout of Heater System for Wash Tank (Refer to drawing, Figure 1.)

Note: The following checkout should be done by qualified service personnel or electrician.

- 1. Ready machine for normal dishwashing operation with wash tank water at proper level.
- 2. Remove front kickplate below door.

Note: Power's still applied to circuit, so be careful.

- Check power to machine at Position 1; terminal board X should read 110V on 60 cycle, or 220V, 50 cycle machine (L1-L2). If not, check cutomer's circuit breaker. If defective, replace.
- 4. Wash temperature should be 130° or less to proceed.
- 5. Observe water level control, letter 'B' (with front door closed and latched). Turn heat switch on and off several times. Relay and contact points (inside clear plastic case on water level control) should move back and forth.
- AA If water level control relay doesn't close, refer to page on Water Level Control's function and checkout.
- BB If water level control relay does close, proceed with heat switch on.
 - 1. Check voltage at Position 1 on terminal board X. Voltage is 110 on 60 cycle machine or 220V on a 50 cycle machine (L1-L2).
 - 2. Check Position 3, Figure 1; there should be no voltage. If there is voltage, then adjust thermostat (refer to page on Thermostat Adjusting).
 - 3. Check Position 2 at heat switch A. There should be 110V on 60 cycle. There should be 220V on 50 cycle.
 - 4. Check Position 5, Figure 1, voltage should be 220. If not, check Position 8, there should be 220V.
 - 5. Temperature should rise slowly, a check with an amp probe would indicate if the element is drawing the correct amperage. Replace element if defective.

WATER LEVEL CONTROL

AS USED ON 24

P/N 0204500 (110V, 60 cycle) P/N 0205000 (220V, 50 cycle)

Function:

The water level control device is utilized on this machine to automatically control the cutoff of the wash tank heater when water drains from the wash tank.

Note: All electrical checks should be made by qualified service personnel.

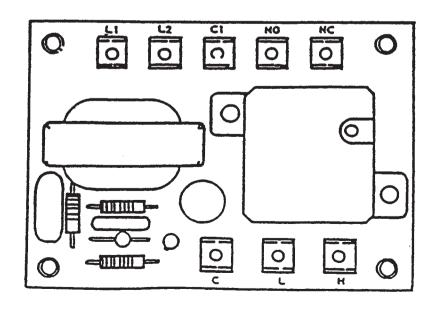
The control is designed to sense when the proper water level is maintained. At this time, the relay in the clear plastic case will activate, closing the circuit to the thermostat which completes the wash tank heat circuit as it closes. If one of the following problems exist, this unit should be checked out as shown below.

Symptoms of Level Control Failure:

- 1. Wash heater circuit is not activated with water at proper level (up to overflow level on overflow pipe) in wash tank.
- 2 Wash heaters remain on when water drained from wash tank. (Sometimes caused by deposits on probe)

Proceed with Checkouts:

- 1. Remove power source to machine by moving circuit breaker to 'off' position.
- 2. Remove screws holding lower kick plate on front of machine and locate water level control (sketch below).
- 3. Remove, mark and insulate, for easy replacement, wires going to letters C & H.
- 4. Re-apply power, turn on heat switch. With an insulated wire, connect jumper wire between terminals C & H (24 volt system).
- 5. If relay operates, the water level control action can be deemed operational; then other causes should be explored.
- 6. If relay doesn't operate, replace control.
- 7. Remove power source once again and replace wires that were removed in step three to original terminals (see trouble shooting section for other possible causes).



SERVICE INSTRUCTIONS (INCOMING WATER SOLENOID VALVE)

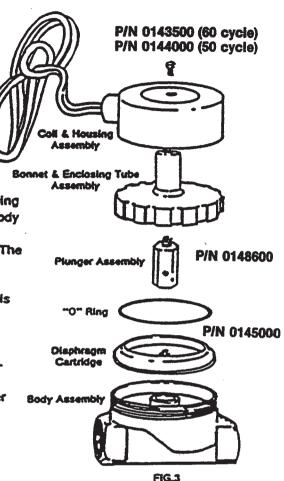
SOLENOID VALVE P/N 0142000 (110V, used on 60 cycle machine) P/N 0142500 (220V, used on 50 cycle machine)

To take the valve apart

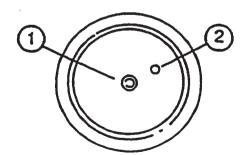
Disassembly - These valves may be taken apart by unscrewing the bonnet and the enclosing tube assembly from the valve body assembly. See Fig. 3. After unscrewing, carefully lift off the bonnet and enclosing tube assembly. Don't drop the plunger. The "O" ring seal and diaphragm cartridge can now be lifted out.

Be careful not to damage the machined faces while the valve is apart

To Reassemble - Place the diaphragm cartridge in the body with the pilot port extention UP. Hold the plunger with the synthetic seat against the pilot port. Make sure the "O" ring is in place, then lower the bonnet and enclosing tube assembly over the plunger. Screw bonnet assembly snugly down on the body assembly.



DIAPHRAGM CARTRIDGE



Possible Problems Pilot Port extension #1 clogged Hole #2 clogged

Remedy Pass heated straight pin through hole #2 or clean hole #1

SEAL and CERAMIC for PUMP SYSTEM

(GENERAL INFORMATION)

The wash and drain pump are part of the total motor pump system. One seal and ceramic are utilized to prevent the pump from leaking.

Replacement of Seal and/or Ceramic:

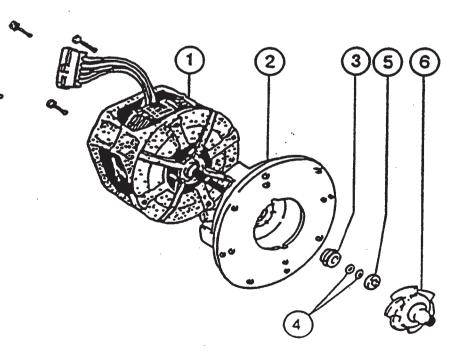
- 1. Drain machine either by depressing drain switch or by balling out.
- 2. Turn incoming power to machine off.
- 3. Open door remove dolly, racks, rinse head assembly and wash head assembly.
- 4. Remove kickplate (located under front door).
- 5. Unplug motor at connector
- 6. Loosen eight screws holding pump in sump tank.
- 7. Disconnect drain hose from motor (must be done from underneath machine).
- 8. Pull motor and pump gently upward and move from side to side as required to remove unit. (Old machine motor removed downward.)
- 9. Set pump and motor on bench and proceed.
- 10. Loosen eight screws holding upper pump housing, and remove housing.
- 11. Remove diffuser plate.
- 12. Loosen impeller screw and remove impeller.
- 13. Remove suction adapter plate.
- 14. Remove drain inlet plate.
- 15. Remove propeller.

check for cracks.

- 16. Remove mounting plate from motor (loosen 4 phillips head screws on bottom of plate).
- 17. Knock out old seal carefully and clean hole, re-insert new seal.

 Note: Be sure not to ruffle edges of seal when inserting. Seal should contact all
- resting surfaces at one time.

 18. Ceramic is imbedded in propeller and normally does not wear or need replacement, but
- 19. Re-install motor and pump by reversing above process.



- 1. MOTOR
- 2. MOUNTING PLATE
- 3. STATIONARY SEAL
- 4. SHIM WASHERS ON MOTOR SHAFT
- 5. CERAMIC
- 6. DRAIN PROPELLER

TROUBLE SHOOTING GUIDE

PROBLEM

Water overflow out bottom of front door when wash pump is operating.

Wash motor doesn't operate on manual wash.

CAUSE

Machine not level.

Overflow drain clogged.

Water level in machine's wash reservoir too high.

Detergent foaming.
Equalizing vent blocked.

Wires broken or loose,

Defective manual wash switch.

Bad bearing, noticeable by noisy bearings or locked drive shaft.

Defective motor starting relay. (Typical - motor hums.)

SOLUTION

Level machine.
Slight tilt to rear
Remove obstruction, checking
Inside of machine first.

Solenoid valve not closing at end of fill or rinse cycle causing excessive water problem.

Reduce quantity of detergent.

Allow free steam flow.

Check all wires in the motor and reconnect as necessary.

Replace.

Replace.

Replace.

Note: The motor starting relay is utilized to insert a starting field in the wash pump motor, once the motor has gained speed, the running winding will then take over and the starting winding will be removed when the relay kicks out. This relay is the amperage sensing type.

Motor runs on manual wash but doesn't operate on automatic (rinse operates okay on both manual and automatic cycles.)

No water comes through the rinse arms when the rinse fill switch is depressed.

Defective center micro switch of timer.

Defective circuit in manual wash switch.

Hand water valve to machine not turned on.

Defective coil on solenoid valve.

Broken or loose wires.

Defective manual rinse fill switch.

Limed up rinse heads or

Water pressure low.

piping.

Replace switch.

Replace switch.

Turn on water valve.

Replace coil.

Repair or reconnect.

Replace.

Begin-by cleaning rinse heads using instructions for de-liming. If this isn't satisfactory, then clean the rinse feed pipes.

Increase pipe size to machine.

Little or no water coming through rinse assemblies.

TROUBLE SHOOTING GUIDE

PROBLEM CAUSE Rinse doesn't operate on Micro switch defective automatic during timed cycle (this is the micro switch (but does operate on manual furthest from the timer motor rinse/fill operation). on the timer assembly).

on N.C. contacts. Rinse water runs continuously Defective plunger in

solenoid valve.

solenold valve.

Rinse fill switch defective

Defective diaphragm in

SOLUTION

Replace.

Replace.

Replace plunger.

Check both holes in disphragm cartridge to insure that they are open. The one on the outside perimeter should be the size of an ordinary straight pin. If it's not, heat a straight pin and put it through this hole to enlarge. If this falls to correct situation. replace diaphragm.

Note: In disassembling solenoid vaive, use instructions shown on separate page.

Unse water runs conluously with power applied to machine, but when circuit breaker to machine is turned off, water stops.

with circuit breaker controlling

machine turned off.

Defective rinse/fill switch.

Defective timer that has stopped in a position keeping the rinse on.

Defective micro switch on timer assembly.

Replace.

Replace timer motor or timer as necessary

Replace.

Note: Excessive water line pressure can cause water to continually run even though the power to the machine is turned off. Check specifications for required pressure.

Wash temperature not at required reading on thermometer.

Defective thermometer.

Using a thermometer (fast reading type that's known to be correct), insert in wash rerservoir and check reading against wash thermometer on machine. If machine thermometer Isn't correct within three or four degrees, replace.

Rinse temperature not at required temperature, causing wash temperature to be lowered during rinse cycle.

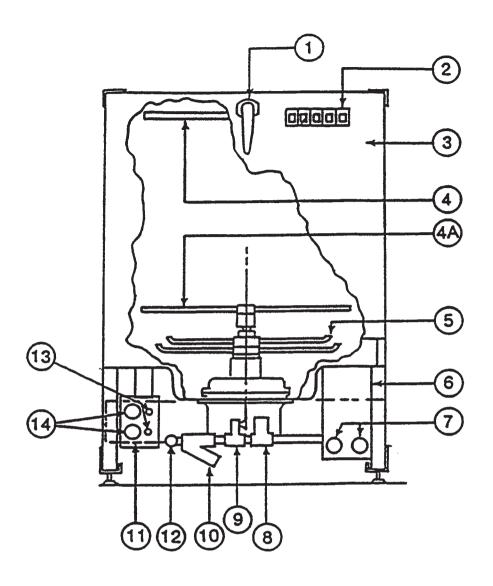
Check out rinse heat using heater checkout system page in manual.

Note: Any switches, water level controls, heater elements, relays or contactor that have to be checked out, can be done using the heater checkout system page.

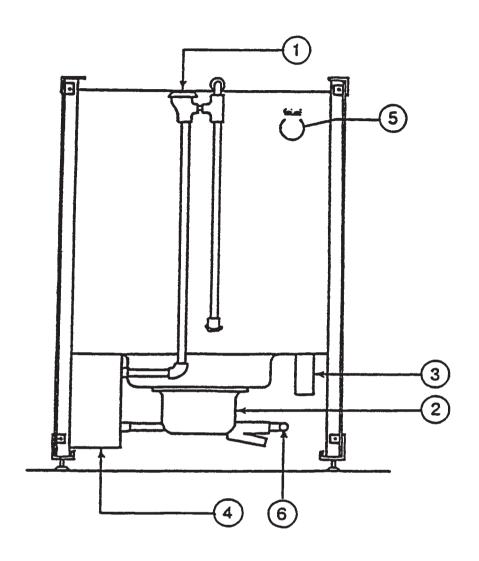
TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
	Heater switch defective.	Replace.
	Water level protection control defective.	Replace.
	Heater element defective.	Replace.
	Wires loose or burned off.	Retighten or Replace.
Filnse water not at required temperature range.	Thermometer's defective.	Replace.
	Heater switch defective.	See page on heater system checkout.
	Thermostat defective.	Adjust using instructions on thermostat page and heater system's checkout page. Replace if necessary.
	Defective heater relay on contactor.	If defective, replace. See note on heater system above.
After filling machine with water, leakage began at lower front panel without machine operating or at end of rinse cycle.	Overflow drain clogged.	Clean away obstruction.
Machine doesn't drain when	Drain solenoid clogged.	Remove obstruction.
drain switch is depressed.	Defective switch.	Replace.
	Defective motor or motor start relay.	Replace.
	Defective drain solenoid.	Replace.

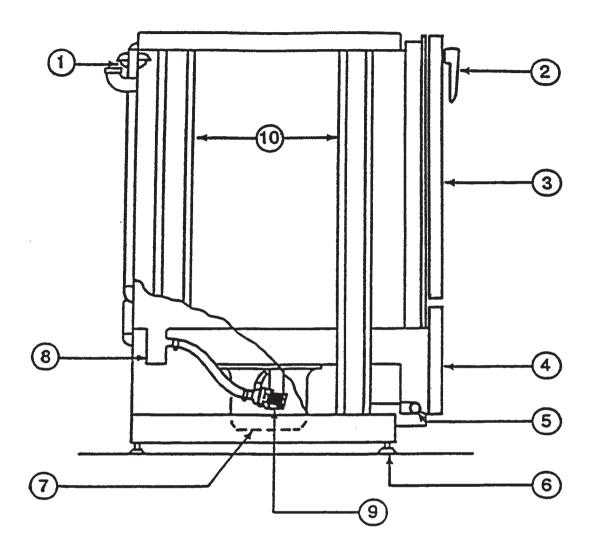
Note: The drain pump of this machine is part of wash motor, so if wash motor operates properly drain system should work.



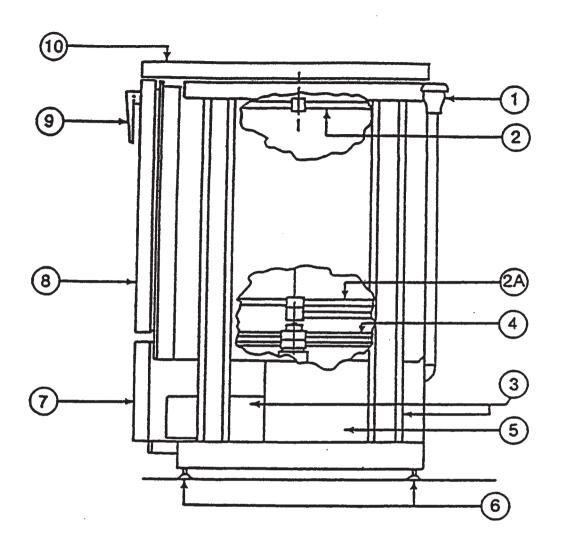
ITEM	P/N	FRONT VIEW DESCRIPTION
i i Ewi	PIN	DESCRIPTION
1.	0051200	DOOR HANDLE ASSEMBLY
2.		SWITCHES
3.	486	FRONT DOOR (NLA)
4.	0125100	RINSE ASSEMBLY, UPPER
4A.	0125200	RINSE ASSEMBLY, LOWER
5.	0188900	WASH ASSEMBLY
6.	0005700	BOOSTER TANK
7.	0060200	HEATER ELEMENTS
8.	0142500	SOLENOID (220V,used on 50 cycle machines)
8.	0142000	SOLENOID (110V, used on 60 cycle machines)
9.	0185000	VALVE FOR HEALTH INSPECTOR GAUGE
10.	0153600	"Y" STRAINER
11.	0030500	ELECTRIC PANEL
12.		INCOMING WATER CONNECTION
13.	0170018	RINSE THERMOSTAT
	0170023	WASH THERMOSTAT
14.	0169100	THERMOMETERS



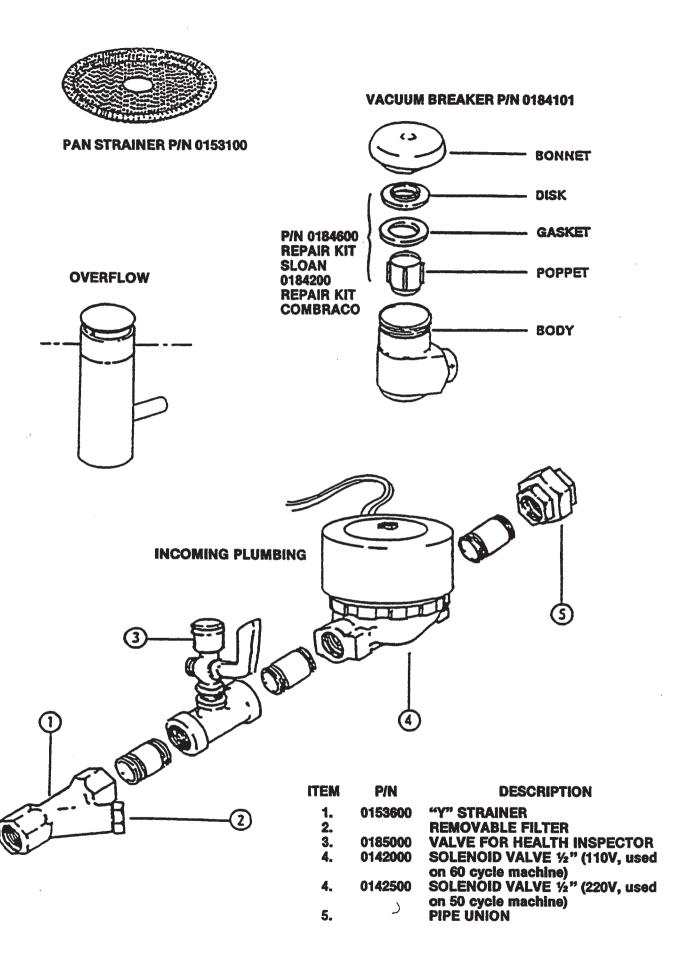
		BACK VIEW
ITEM	P/N	DESCRIPTION
1.	0184101	VACUUM BREAKER ASSEMBLY
2.	0108100	PUMP & MOTOR ASSEMBLY (110V, 60 cycle)
2.	0108200	PUMP & MOTOR ASSEMBLY (220V, 50 cycle)
3.		DRAIN-GRAVITY FEED
4.	0005700	BOOSTER TANK
5.	0185900	EQUALIZING VENT
6.		INCOMING WATER CONNECTION

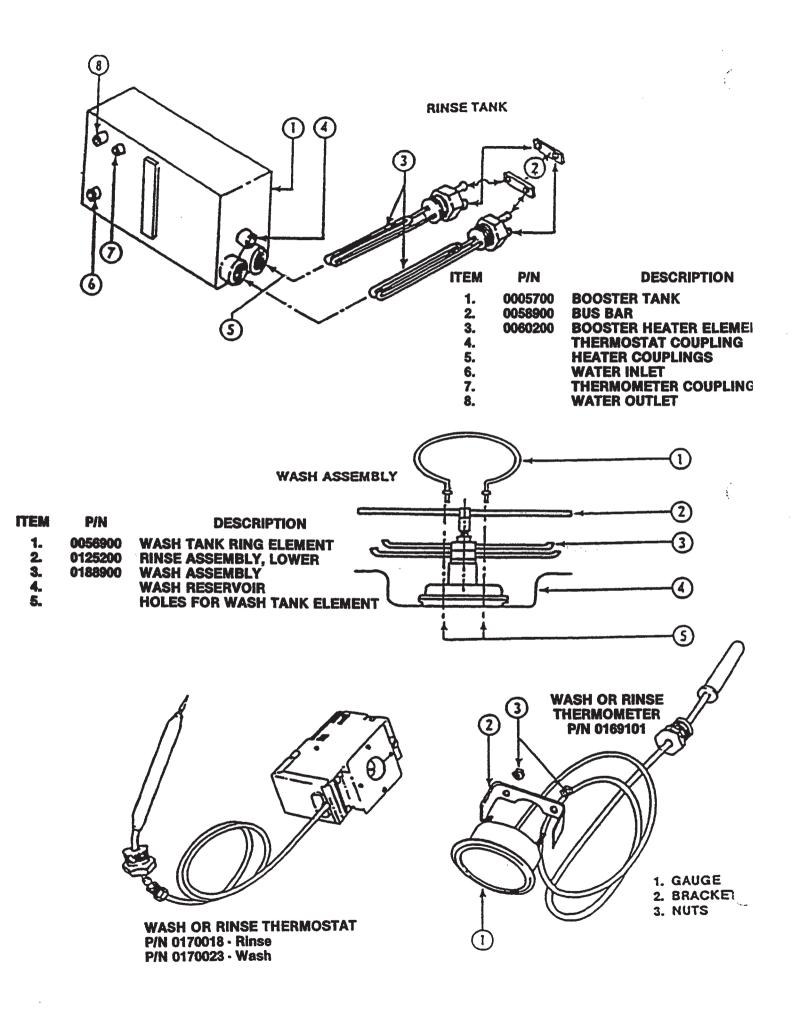


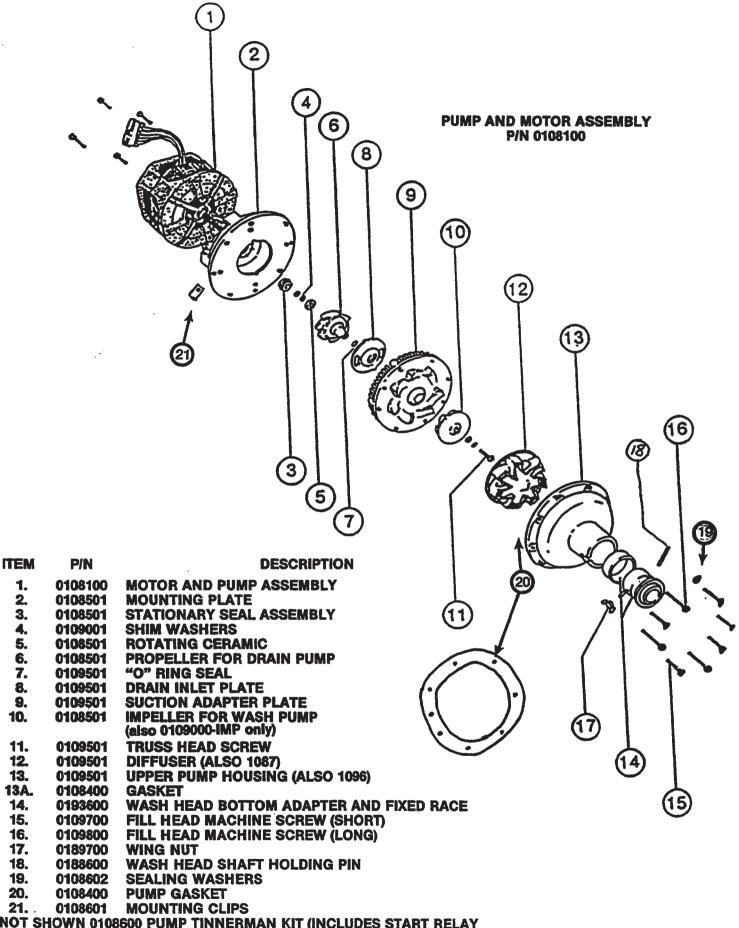
		LEFT SIDE VIEW
ITEM	P/N	DESCRIPTION
1.	0184101	VACUUM BREAKER ASSEMBLY
2.	0051200	DOOR HANDLE ASSEMBLY
3.	0048700	FRONT DOOR, OUTER
4	0054900	KICK PANEL
5.		INCOMING WATER CONNECTION
6.	0083400	ADJUSTING FEET
7.	0108100	PUMP & MOTOR ASSEMBLY (110V, 60 cycle)
7.	0108200	PUMP & MOTOR ASSEMBLY (220V, 50 cycle)
8.		DRAIN—GRAVITY FEED
9.	0142400	DRAIN SOLENOID VALVE (110V, used on 60 cycle machine)
9.	0142200	DRAIN SOLENOID VALVE (220V, used on 50 cycle machine)
10.		SIDE FRAME & BRACE



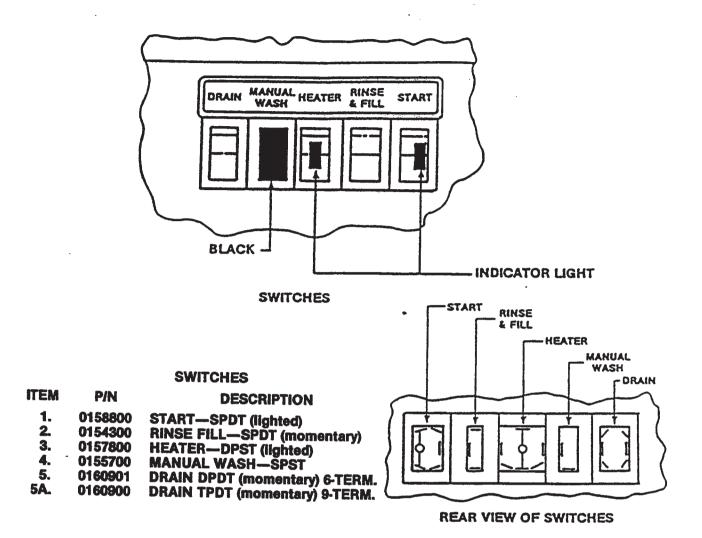
ITEM	P/N	RIGHT SIDE VIEW DESCRIPTION
1.	0184101	VACUUM BREAKER ASSEMBLY
2.	0125100	RINSE ASSEMBLY, UPPER
2A.	0125200	RINSE ASSEMBLY, LOWER
3.		SIDE FRAME & BRACE
4.	0188900	WASH ASSEMBLY
5.	0005700	BOOSTER TANK
6.	0083400	ADJUSTING FEET
7.	0054900	KICK PANEL
8.	0048700	FRONT DOOR OUTER ONLY
9.	0051200	DOOR HANDLE ASSEMBLY
10.	0054700	OPTIONAL TOP

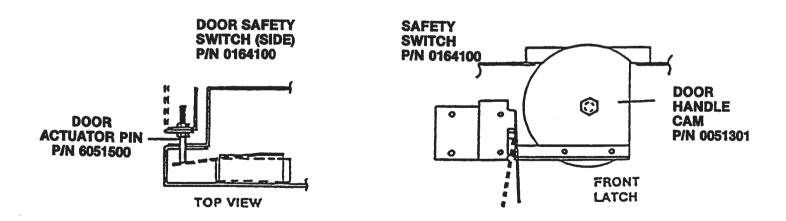


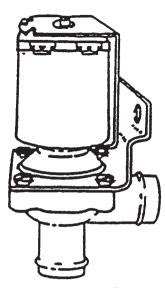




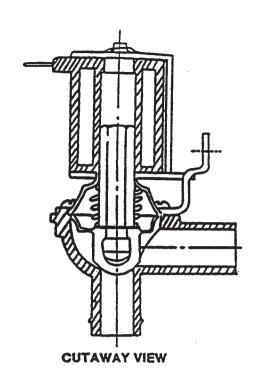
NOT SHOWN 0108600 PUMP TINNERMAN KIT (INCLUDES START RELAY AND ITEM NUMBERS 14, 15, 16, 17, 18 (COMES WITH 0108100 ASSEMBLY)

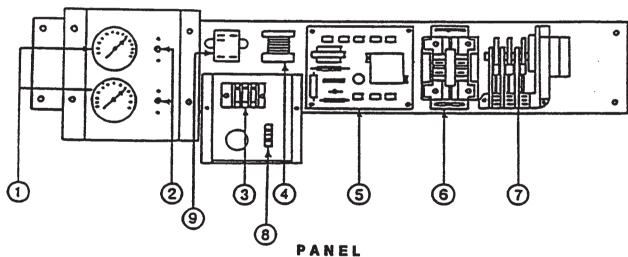




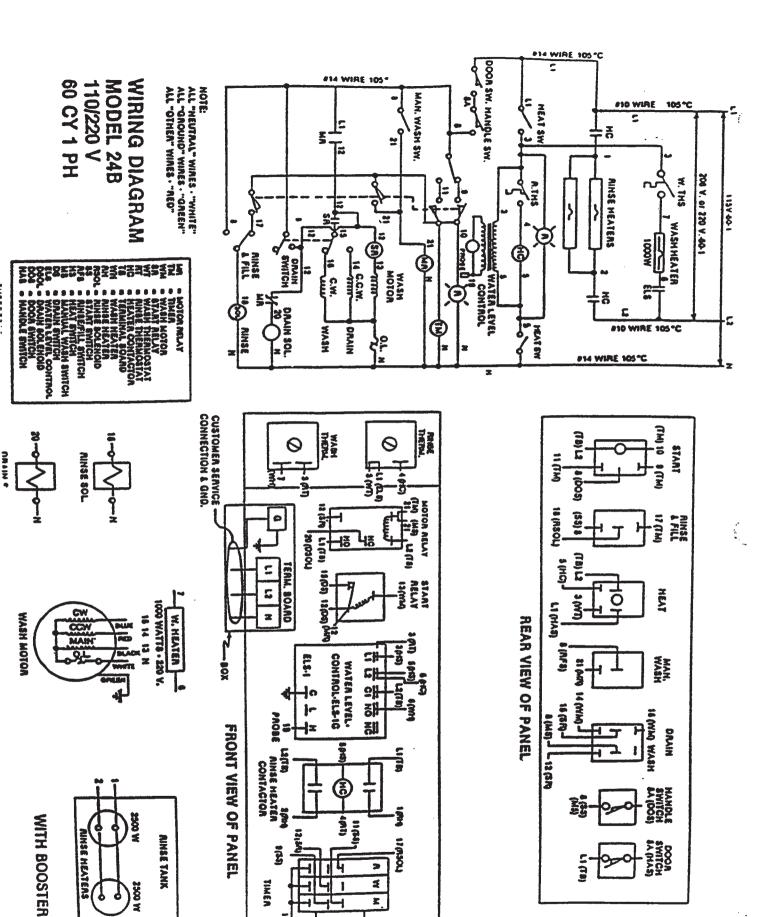


DRAIN VALVE
P/N 0142400 (110V, used on 60 cycle machine)
P/N 0142200 (220V, used on 50 cycle machine)

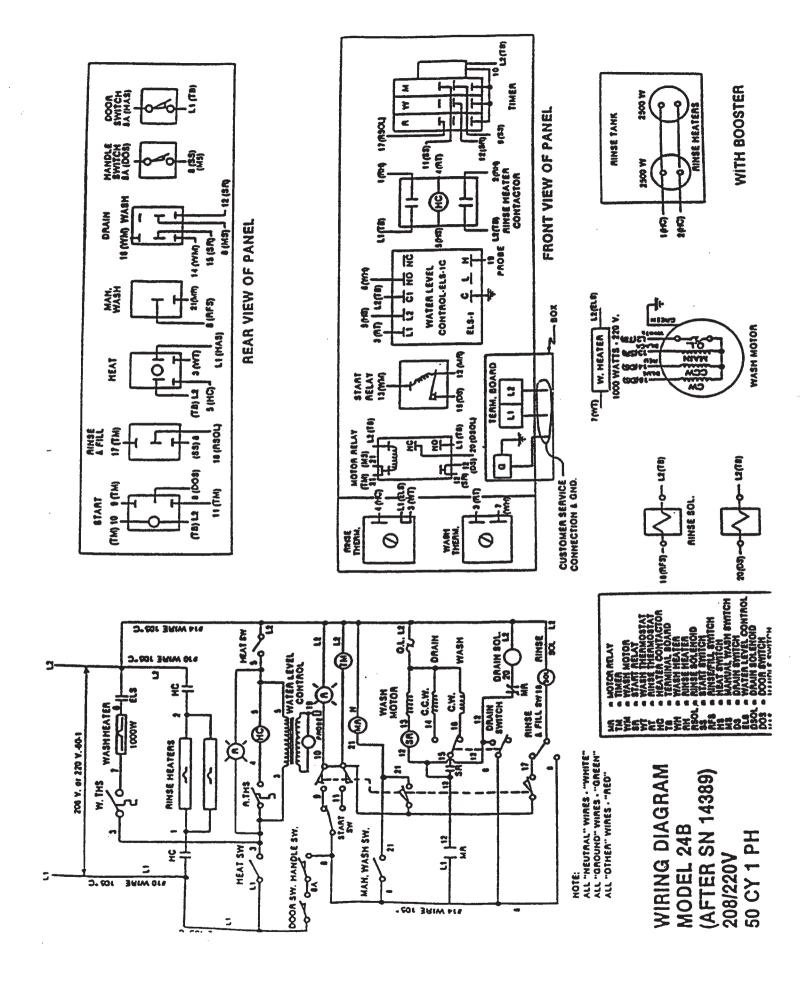




		PANEL
ITEM	PIN	DESCRIPTION
1.	0169100	THERMOMETERS, WASH & RINSE
2.	0170018	THERMOSTAT, RINSE
2A.	0170023	THERMOSTAT, WASH
3.	0165600	TERMINAL BOARD, INCOMING ELECTRICAL CONNECTION
4.	0120701	STARTING RELAY (110V, for 60 cycle machine)
4.	0120900	STARTING RELAY (220V. for 50 cycle machine)
5.	0204500	WATER LEVEL CONTROL (110V, for 60 cycle machine)
5.	0205000	WATER LEVEL CONTROL (220V, for 50 cycle machine)
6.	0121000	HEATER RELAY (110V, for 60 cycle machine)
6.	0120900	HEATER RELAY (220V, for 50 cycle machine)
7.	0171700	TIMER (110V, for 60 cycle machine)
7.	0171800	TIMER (220V, for 50 cycle machine) MOTOR ONLY
8.		GROUND LUG
9.	0121300	MOTOR RELAY



GUN



COMPLETE PARTS LIST FOR MODEL 24

0005700	Booster Tank (stripped) for 24B	1
0030500	Control Panel, wired (lower front) for 24B (specify 50 or 60 cycle machine)	4
0047200	Door, complete, stripped (obsolete)	4
0047300	Door, front, outer only, stripped (obsolete)	4
0047400	Door insert, inner only, stripped	4
0051200	Door Handle Assembly	4
0051200	Door Handle Cam	4
0031300	Poor Handle Com No.	-
0052300	Door Handle Cam Nut	4
0052400	Door Gasket]
	Door Gasket, Clamp Assembly]
0053400	Drain Hose-Pump to Solenoid Valve, Short	1
0053500	Drain Hose Clamps	4
0053600	Drain Hose-Solenoid Valve to Drain, long	1
0054400	Door Spring	2
0054500	Enclosure Panel, righthand side	1
0054600	Enclosure Panel, lefthand side	1
0054700	Enclosure Panel, top	1
0056900	Heater Element, ring-style, 1000W, 220V	1
0058900	Heater Bus Bar. 2-hole. copper	2
0060200	Heater Element. short. 220V. 2500W	2
0060700	Heater Element, short, 208V, 2500W	2
0084300	Probe, Lundy, small	1
0108100	Pump Assembly, complete with motor, 115V, 60 cycle	i
0108200	Pump Assembly, complete with motor, 220V, 50 cycle	i
0108400	Pump Gasket	•
0108501	Pump Propeller Mounting Plate and Seal Assembly, kit	4
0108700	Pump Diffuser (only) NLA use 0109501 Kit	4
0109000	Pump bridger (011) NLA 036 010301 Kit	4
0109501	Pump Impeller, kit	4
	Pump, Upper Housing, kit	1
0109600	Pump, Upper Housing, (Only) NLA use 0109301 Kit	1
0109700	Pump Fill Head Machine Screws, short	4
0109800	Pump Fill Head Machine Screws, long	4
0110200	Rack Trolley, movable, s/s (obsolete)]
1003600	Rack, square, 19 4 x 10 4" (cup, bowl, glass)	1
1003500	Rack, square, 19¾ x 19¾" (dish-molded)	2
0120500	Relay, 110V, 2-pole, HW Heat Circuit	1
0120701	Relay, 110V, Motor Starting	1
0120900	Relay, 220V, Motor Starting, (for 50 cycle machine)	1
0121000	Relay, 220V, 2-pole, HW Heater Circuit, (for 50 cycle)	1
0121300	Relay Motor	1
0125100	Rinse Head Assembly, upper	1
0125200	Rinse Head Assembly, lower	1
0126800	Rinse Head End Plug	2
0125500	Rinse Head, Hex Bushing	2
0125700		2
0126000	Rinse Head, Nylatron Washer	2
0126500		<u>-</u> 2
0130100	, and an	1
0134000	Rinse Head Brush, Tube Cleaning	i
6137200	Rinse Head Feed Pipe, lower	i
0137200	Rinse Feed Pipe Nipple	1
	Pince Food Pine I anyord Pin	1
0137301		•
0138700	Rinse Head Spray Nozzle, Dual System	6

COMPLETE PARTS LIST FOR MODEL 24

)142000	Solenoid Valve, ½", JE, 110V	1
)142200	Drain Valve. Dole ½" 220V. (for 50 cycle machine)	1
3142300	Drain Valve Kit. includes Valve. Bracket. Hoses	1
)142400	Drain Valve, Dole 1/2" 110V, (Valve only)	1
)142500	Solenoid Valve, 1/2", JE, 220V, (for 50 cycle machine)	1
)143500	Solenoid Valve Coli, 110V, JE	1
)144000	Solenoid Vaive Coil, 220V, JE (for 50 cycle machine)	1
)145000	Solenoid Valve Dianhragm Cartidge & "O" Ring JF	1
)147500	Solenoid Valve "O" Ring, JE Solenoid Valve, Plunger Assembly, JE	1
)148500	Solenoid Valve, Plunger Assembly, JF	4
1149500	Solenoid Valve, Strainer Screen, JE	4
)153100	Strainer, Pan-Type	•
)154300	Switch, Rinse-Fill (Rocker-type)	•
)155700	Switch, Manual Wash (Rocker-type)	•
)157800	Switch, Heat (Illuminated rocker-type)	4
)158800	Switch, Start (Illuminated rocker-type)	4
1160901	Switch, Drain (Rocker-type), 9 Term.	4
)160900	Switch, Drain, 6 Term.	4
3161000	Switches wired w/harness	4
)164100	Switch interlock (side or latch)	4
)164300	Switch Bracket, for side interlock, use 6051500	4
1164700	Switch Bracket, for latch interlock.	4
×5600	Terminal Board, 3-pole	4
. /100	Thermometer, 36" Cap., Rinse	4
)170018	Thermostat, Rinse, 180°, fixed	4
)170023	Thermostat, Wash 150°, fixed	4
)171700	Timer, 115V w/wires, 60 cycles	4
)171800	Timer, 220V w/wires, 50 cycles, Motor Only	4
)172200	Timer Motor, 115V, for Module-Type Timer	4
)177500	Timer Micro Switches, Plastic Module-Type	3
)184101	Vocum Procker Clean 1/2	3
1184600	Vacuum Breaker, Sloan, ½"	1
)186500	Wach Head Can w/Peac	1
1187000	Wash Head Cap w/Race	1
)187500	Wash Head Cap Set Screw	1
)188600	Wash Head Center Shaft]
1188900	Wash Head Holding Pin]
1189000	Wash Head Assembly, complete]
1189500	Small Manifold w/Tubes, Wash Head]
)199505	Large Manifold w/Tubes, Wash Head	1
1189805	Wash Head Accombly Retaining Dia w/Ring	2
	Wash Head Assembly Retaining Pin w/Ring	1
1193600	Wash Head Fixed Race	2
1194004	Wash Head Bearings, '4" s/s, Pkg of 25	57
1204500	Water Level Control, 110V, Curtis	1
1205000	Water Level Control, 220V, Curtis (for 50 cycle)	1

ALABAMA

JONES-McLEOD APPLIANCE SVC

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 (334) 666-7278 800-237-9859 FAX: (334) 661-0223

ALASKA

RESTAURANT APPLIANCE SERVICE

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. #78

5052 SOUTH 40TH STREET PHOENIX, AZ 85040 (602) 474-4510 800-510-3497 FAX: (602) 470-4511 phoenix@gcssvc.com

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 brom@mindspring.com

COMMERCIAL PARTS & SVC. 3717 CHERRY ROAD

MEMPHIS, TN 38118 (901) 366-4587 800-262-9155 FAX: (901) 366-4588

CALIFORNIA

BARKERS FOOD MACHINERY EQUIPMENT

5367 SECOND STREET IRWINDALE, CA 91706 (626) 960-9390 800-258-6999 FAX: (626) 337-4541 bfms@ips.net

GCS SERVICE INC. #24

1100 EAST PICO BLVD. LOS ANGELES, CA 90021 (213) 683-2090 800-327-1433 FAX: (213) 683-2099 los_angeles@gcssvc.com

GCS SERVICE INC. #24

650 S. GRAND AVE. STE 111 SANTA ANA, CA 92705 (714) 542-1798 800-540-0719 FAX: (714) 542-4787 santa_ana@gcssvc.com

GCS SERVICE INC. #52

360 LITTLEFIELD S. SAN FRANCISCO, CA 94080 (650) 635-0720 800-969-4427 FAX: (650) 871-4019 san_francisco@gcssvc.com

GCS SERVICE INC. #84

9030 KENAMAR DR. STE 313 SAN DIEGO, CA 92121 (858) 549-8411 800-422-7278 FAX: (858) 549-2323 san_diego@gcssvc.com

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

COLORADO

GCS SERVICE INC.

4251 S. NATCHES CT. #60# UNIT C SHERIDAN, CO 80110 (303) 371-9054 800-972-5314 FAX: (303) 371-4754 denver@gcssvc.com

METRO APPLIANCE SERVICE

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

CONNECTICUT

GCS SERVICE INC. #06

302 MURPHY ROAD HARTFORD, CT 06114 (860) 549-5575 800-423-1562 FAX: (860) 527-6355 hartford@gcssvc.com

DELAWARE

FOOD SERVICE EQMT.

2101 PARKWAY SOUTH BROOMALL, PA 19008 (610) 356-6900 FAX: (610) 356-2038 dancerule@aol.com

GCS SERVICE INC. #44

817 N THIRD STREET P.O. BOX 3564 PHILADELPHIA, PA 19123 (215)925-6217 800-441-9115 FAX: (215) 925-6208 philadelphia@gcssvc.com

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 SERVICE

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 #15

3373 NW 168TH ST. MIAMI, FL 33056 (305) 621-6666 800-766-8966 FAX: (305) 621-6656 miami@gcssvc.com

GCS SERVICE INC #13

4305 VINELAND RD STE G-12 ORLANDO, FL 32811 (407) 841-2551 800-338-7322 FAX: (407) 423-8425 orlando@gcssvc.com

GCS SERVICE INC #14

3902 CORPOREX PARK DR. SUITE 350 TAMPA, FL 33619 (813) 626-6044 800-282-3008 FAX: (813) 621-1174 tampa@gcssvc.com

JONES-McLEOD APPLIANCE SVC

854 LAKESIDE DRIVE MOBILE, AL 36693 (334) 666-7278 800-237-9859 FAX: (334) 661-0223 service@jones-mcleod.com

GEORGIA

GCS SERVICE INC #16

3127 PRESIDENTIAL DR. ATLANTA, GA 30340 (770) 452-7322 800-334-3599 FAX: (770) 452-7473 atlanta@gcssvc.com

SOUTHEASTERN RESTAURANT SVC.

2200 NORCROSS PKWY. SUITE 210 NORCROSS, GA 30071 (770) 446-6177 800-235-6516 FAX: (770) 446-3157 srsati@aol.com

WHALEY FOODSERVICE REPAIRS

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

<u>HAWAII</u>

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

7219 HOUSEVELT 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. #12

696 LARCH AVE. ELMHURST, IL 60126 (630) 941-7800 800-942-9689 FAX: (630) 941-6048 chicago@gcsscv.com

GCS SERVICE INC. #80

9722 REAVIS PARK DR. ST. LOUIS, MO 63123 (314) 683-7444 800-284-4427 FAX: (314) 638-0135 st_louis@gcssvc.com

INDIANA

COMMERCIAL PARTS & SVC.

5310 E 25TH STREET INDIANAPOLIS, IN 46218 (317) 545-9655 800-727-8710 FAX: (317) 549-6286 peproane@aol.com

IOWA

GOODWIN-TUCKER GROUP

3509 DELAWARE AVENUE DES MOINES, IA 50313 (515) 262-9308 800-372-6066 FAX: (515) 262-2936 goodwintuc@aol.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. #82 6107 CONNECTICUT KANSAS CITY, MO 64120 (816) 920-5999 800-229-6477 FAX: (816) 920-7387 kansas city@gcssvc.com

KENTUCKY

CERTIFIED SERVICE CENTER

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

CERTIFIED SERVICE CENTER

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

COMMERCIAL PARTS & SERVICE

4204 SOUTH BROOK STREET LOUISVILLE, KY 40214 (502) 367-1788 800-752-6160 FAX: (502) 367-0400

COMMERCIAL PARTS & SERVICE

1002 NANDINO BLVD. LEXINGTON, KY 40511 (606) 255-0746 800-432-9260 FAX: (606) 255-0748

LOUISIANA

BANA PARTS INC.

1501 KUEBLE STREET HARAHAN, LA 70123 (504) 734-0076 800-325-7543 FAX: (504) 734-8456

BANA PARTS INC.

4028 GREENWOOD ROAD SHREVEPORT, LA 71109 (318) 631-6550 800-832-6550 FAX: (318) 636-5675

MAINE

GCS SERVICE INC. #09

180 SECOND STREET CHELSEA, MA 02150 (617) 889-9393 800-225-1155 FAX: (617) 889-1222 boston@gcssvc.com

MASSACHUSETTS
RESTAURANT SUPPLY

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

MARYLAND:

EMR SERVICE DIVISION

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

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

2626 PITTMAN DRIVE SILVER SPRING, MD 20910 (301) 588-8080 800-348-2365 FAX: (301) 588-6985 baltparts@emrco.com

GCS SERVICE INC. #07 2660 PITTMAN DRIVE

2660 PITTMAN DRIVE
SILVER SPRING, MD 20910
(301) 585-7550 (DC)
(410) 792-0338 (BALT)
(800) 638-7278
FAX: (301) 495-4410
dc_baltimore@gcssvc.com

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 SUPPLY

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 868-5331 GCS SERVICE INC. #09

180 SECOND STREET CHELSEA, MA 02150 (617) 889-9393 800-225-1155 FAX: (617) 889-1222 boston@gcssvc.com

GCS SERVICE INC. #06

302 MURPHY ROAD HARTFORD, CT 06114 (860) 549-5575 800-723-1562 FAX: (860) 527-6355 hartford@gcssvc.com

MICHIGAN

GCS SERVICE INC. #20

31829 WEST EIGHT MILE RD. LIVONIA, MI 48152 (248) 426-9500 800-772-2936 FAX: (248) 426-7555 detroit@gcssvc.com

JACKSON SERVICE COMPANY

3980 BENSTEIN RD. COMMERCE TWSHP, MI 48382 (248) 363-4159 800-332-4053 FAX: (248) 363-5448

GCS SERVICE INC. #21

3516 ROGER B. CHAFFE SE GRAND RAPIDS, MI 49548 (616) 241-0200 800-823-4866 FAX: (616) 241-0541 grand_rapids@gcssvc.com

MINNESOTA

GCS SERVICE INC.

2857 LOUISIANA AVENUE N. MINNEAPOLIS, MN 55427 (612) 546-4221 800-345-4221 FAX: (612) 546-4286 minneapolis@gcssvc.com

MISSISSIPPI

COMMERCIAL PARTS & SVC.

5755 GALLANT DRIVE JACKSON, MS 39206 (601) 956-7800 800-274-5954 FAX: (601) 956-1200

COMMERCIAL PARTS & SVC.

3717 CHERRY ROAD MEMPHIS, TN 38118 (901) 366-4587 800-262-9155 FAX: (901) 366-4588

MISSOURI

GCS SERVICE INC. #82 6107 CONNECTICUT KANSAS CITY, MO 64120 (816) 920-5999 800-229-6477 FAX: (816) 920-7387 kansas_city@gcssvc.com

GCS SERVICE INC. #80 9722 REAVIS PARK DR. ST. LOUIS, MO 63123 (314) 638-7444 800-284-4427 FAX: (314) 638-0135 st_louis@gcssvc.com

KAMMERLIN PARTS & SVC. 2728 LOCUST STREET ST. LOUIS, MO 63103 (314) 535-2222 FAX: (314) 535-6205

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 815 N 19TH STREET OMAHA, NE 68102 (402) 345-7400 800-228-0342 FAX: (402) 346-6145 goodwintuc@aol.com

NEVADA:

SERVICE 4480 ALDEBARAN AVE. LAS VEGAS, NV 89103 (702) 736-0006 FAX: (702) 798-7531

BURNEY'S COMMERCIAL

GCS SERVICE INC. #77 3585 EAST PATRICK LANE SUITE 1000 LAS VEGAS, NV 89102 (702) 450-3495 800-500-9060 FAX: (702) 450-3491 las_vegas@gcssvc.com

NEW HAMPSHIRE

GCS SERVICE INC. #09
180 SECOND STREET
CHELSEA, MA 02150
(617)889-9393
800-225-1155
FAX: (617) 889-1222
boston@gcssyc.com

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

NEW JERSEY:

JACKSON FASPRAY SVC. 155 SARGEANT AVE. CLIFTON, NJ 07013 (973) 471-8000 800-356-6740 FAX: (973) 471-1289

GCS SERVICE INC. #2

1 MADISON STREET
BUILDING F
EAST RUTHERFORD, NJ 07073
(973) 614-0003
800-399-8294
FAX: (973) 614-0230
east_rutherford@gcssvc.com

GCS SERVICE INC. #44 817 N THIRD STREET PHILADELPHIA, PA 19123 (215) 925-6217 800-441-9115 FAX: (215) 925-6208 philadelphia@gcssvc.com

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

NEW MEXICO:

STOVE PARTS SUPPLY CO. 2120 SOLANA STREET FORT WORTH, TX 76117 (817) 831-0381 800-433-1804 FAX: (817) 834-7754 bua@stoveparts.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

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. #01 932 GRAND STREET BROOKLYN, NY 11211 (718) 486-5220 800-969-4271 FAX: (718) 486-6772 new_york@gcssvc.com

JACKSON FASPRAY SVC. 155 SARGEANT AVE. CLIFTON, NJ 07013 (973) 471-8000 800-356-6740 FAX: (973) 471-1289 ifs155@aol.com

NORTH CAROLINA

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

METRO COMMERCIAL SERVICE INC. 2857 LOUISIANA AVENUE N. MINNEAPOLIS, MN 55427 (612) 546-4221 800-345-4221 FAX: (612) 546-4286 minneapolis@gcssvc.com

OHIO

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

COMMERCIAL PARTS & SVC. OF COLUMBUS
1150 WEST MOUND STREET COLUMBUS, OH 43223 (614) 221-0057 800-837-8327 FAX: (614) 221-3622

GCS SERVICE INC. 2830 JOHNSTOWN ROAD COLUMBUS, OH 43219 (614) 476-3225 800-282-5406 FAX: (614) 476-1196 columbus@gcssvc.com

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

OKLAHOMA

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

KRUEGER INC.

100 NE 24TH STREET OKLAHOMA CITY, OK 73105 (405) 528-8883 800-522-8069 FAX: (405) 528-5405 kruegers@swbell.net

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

AFS-AUTHORIZED FACTORY SVC. INC.

940 FIRST AVE. CORAOPOLIS, PA 15108 (412) 262-2330 800-222-8767 FAX: (412) 262-2245

ELMER SCHULTZ SVC.

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

FOOD SERVICE EQMT.

2101 PARKWAY SOUTH BROOMALL, PA 19008 (610) 356-6900 FAX: (610) 356-2038 dancerule@aol.com

GCS SERVICE INC. #44

817 N THIRD STREET P.O. BOX 3564 PHILADELPHIA, PA 19123 (215) 925-6217 800-441-9115 FAX: (215) 925-6208 philadelphia@gcssvc.com

GCS SERVICE INC. #44

4400 LEWIS ROAD SUITE E HARRISBURG, PA 17111 (717) 564-3282 800-367-3225 FAX: (717) 564-9286 harrisburg@gcssvc.com

GCS SERVICE INC. #48

210 VISTA PARK DRIVE PITTSBURGH, PA 15205 (412) 787-1970 800-738-1221 FAX: (412) 787-5005 pittsburgh@gcssyc.com

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

RHODE ISLAND

GCS SERVICE INC. #09

1002 WATERMAN AVE. EAST PROVIDENCE, RI 02914 (401) 434-6803 800-462-6012 FAX: (401) 438-9400 providence@gcssvc.com

SOUTH CAROLINA

WHALEY FOODSERVICE REPAIRS

1 26&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.

2857 LOUISIANA AVENUE N. MINNEAPOLIS, MN 55427 (612) 546-4221 800-345-4221 FAX: (612) 546-4286 minneapolis@gcssvc.com

TENNESSEE

COMMERCIAL PARTS & SVC.

3717 CHERRY ROAD MEMPHIS, TN 38118 (901) 366-4587 800-262-9155 FAX: (901) 366-4588

COMMERCIAL PARTS & SVC.

748 FESSLERS LANE NASHVILLE, TN 37210 (615) 244-8050 800-831-7174 FAX: (615) 244-8885 alesco1@aol.com

COMMERCIAL APPLIANCE SVC.

919 8TH AVENUE SOUTH NASHVILLE, TN 37203 (615) 254-0906 800-476-0906 FAX: (615) 254-0919 casnash@aol.com

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. #90 10850 SANDEN DRIVE DALLAS, TX 75238-5325

(972) 484-2954 800-442-5026 FAX: (972) 484-2531 dallas@gcssvc.com

GCS SERVICE INC. #88

8150 WESTPARK HOUSTON, TX 77063 (713)785-9187 800-868-6957 FAX: (713) 785-3979 houston@gcssvc.com

STOVE PARTS SUPPLY CO.

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 MURRAY, UT 84107 (801) 263-3221 800-527-2561 FAX: (801) 263-3229 lamonica81@aol.com

VERMONT

AUTHORIZED APPLIANCE SER-VICENTER OF VERMONT

74 RIVER STREET RUTLAND, VT 05701 (802) 775-5588 800-874-1080 FAX: (802) 775-9593 suew @authorizedapplianceofut.com

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. #09

180 SECOND STREET CHELSEA, MA 02150 (617)889-9393 800-225-1155 FAX: (617) 889-1222 boston@gcssvc.com

<u>VIRGINIA</u>

DAUBERS, INC.

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

GCS SERVICE INC. #07

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