

# **TECHNICAL MANUAL**

**FOR JACKSON MODEL:**

**MODEL 24BPNSU**



## **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, whichever 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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## LIST OF EFFECTIVE PAGES

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

NOTE: On a changed page, the portion of the text affected by the latest change is indicated by a vertical line, or other change symbol, in the outer margin of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Total number of pages in this manual is 44, consisting of the following:

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# APPROVAL AND PROCUREMENT RECORD

## APPROVAL DATA FOR:

**TITLE OF MANUAL:** DESCRIPTION, OPERATION, INSTALLATION, AND MAINTENANCE  
INSTRUCTIONS FOR DISHWASHING MACHINE, MODEL 24BPNSU

**APPROVAL AUTHORITY:** (LETTER OF APPROVAL FROM PROCURING ACTIVITY)

CONTRACT NO.	NSN	NO. OF UNITS	CID/APL
DLA-400-90-M-1376	7320-01-144-2638	1	432100007

## REMARKS:

DATE:

## CERTIFICATION:

IT IS HEREBY CERTIFIED THAT THE TECHNICAL MANUAL PROVIDED UNDER CONTRACT NUMBER DLA-400-90-M-1376 FOR DISHWASHING MACHINE, MODEL 24BPNSU, HAS BEEN APPROVED BY THE APPROVAL DATA SHOWN ABOVE.

\_\_\_\_\_  
(TITLE OF COMPANY OFFICIAL)

COMPANY'S NAME \_\_\_\_\_

COMPANY'S ADDRESS \_\_\_\_\_

COMPANY'S FSCM \_\_\_\_\_

# CHANGE RECORD

Change No.	Date	Title/Brief Description	Signature of Validating Officer

# IDENTIFYING TECHNICAL PUBLICATION SHEET

1. **PURPOSE:** This technical publication is issued for the purpose of identifying and authorizing the following commercial manual for Navy use.

**MANUFACTURER:** JACKSON PRODUCTS CO., Lexington, Tennessee 38351

**PURCHASE ORDER OR CONTRACT NO.:** DLA-400-90-M-1376

**EQUIPMENT:** DISHWASHING MACHINE, Model 24BPNSU

**REQUISITION NO.:** Not Applicable

**FEDERAL STOCK NUMBER:**

**TITLE:** Description, Operation, Installation, and Maintenance Instructions for DISHWASHING MACHINE, Model 24BPNSU

**ADDITIONAL IDENTIFICATION (if any):** Not Applicable

**DATE:** 1 January 1991

2. **ADDITIONAL COPIES:** Additional copies are available from:

DGSG — SDA  
Richmond, Virginia 23297

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# CHAPTER 1 — SPECIFICATIONS

TABLE 1-1. SPECIFICATIONS FOR MODEL 24BPNSU

<b>OPERATING CAPACITY</b> Racks per hour Dishes per hour Glasses per hour		<b>ABM</b> 21 525 525	
<b>OPERATING CYCLE</b> Wash time, seconds Rinse time, seconds Total cycle, seconds		120 15 150	
<b>WASH TANK CAPACITY</b> , gallons		5.65	
<b>RINSE TANK CAPACITY</b> , gallons		3	
<b>WASH PUMP CAPACITY</b> , gallons per minute		60	
<b>THERMOMETERS</b> Wash, F° Rinse, F°		140-160 180-195	
<b>WATER REQUIREMENTS</b> Inlet temperature, F° Gallons per hour Flow pressure, PSI Inlet, IPS Drain		140 52.3 20 ½" 1½	
<b>WASH PUMP</b> , horsepower		½	
<b>ELECTRIC HEAT RINSE</b> , KW Wash Rinse		1.0 6.7	
<b>DIMENSIONS</b> Height, without top Height, with top Width Clearance, wall to machine Depth Maximum clearance for dishes		34½ inches 36 inches 28½ inches 2¼ inches 24 inches 14 inches	
<b>STANDARD RACKS</b> Dish Glass and silver		19¾ inches 19¾ inches	
<b>ELECTRICAL RATING</b>	<b>VOLTAGE</b>	<b>PHASE</b>	<b>TOTAL AMPS</b>
10-ABM	440	3	12.7

# **CHAPTER 2 — INSTALLATION INSTRUCTIONS**

## **2-1. Safety Precautions**

The following are general safety precautions that are not related to any specific procedures and therefore do not appear elsewhere in this publication. These are recommended precautions that personnel must understand and apply during many phases of operation and maintenance.

### **KEEP AWAY FROM LIVE CIRCUITS**

Operating personnel must at all times observe all safety regulations. Do not replace components or make adjustments inside the equipment with the high voltage supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position, due to charge retained in capacitors. To avoid casualties, always remove power and discharge and ground a circuit before touching it.

### **DO NOT SERVICE OR ADJUST ALONE**

Under no circumstances should any person reach into or enter the enclosure for the purpose of servicing or adjusting the equipment except in the presence of someone who is capable of rendering aid.

### **RESUSCITATION**

Personnel working with or near high voltages should be familiar with modern methods of resuscitation. Such information may be obtained from the Bureau of Medicine and Surgery.

The following warnings and cautions appear in the text in this volume, and are repeated here for emphasis.

#### **WARNING**

Warning means there is a possibility of personal injury to yourself or others.

#### **CAUTION**

Caution means there is the possibility of damage to the machine.

# **CHAPTER 2 — INSTALLATION INSTRUCTIONS**

## **2-2. Uncrating and Unpacking the Dishwashing Machine**

Before any connections are made, visually check the entire machine for any possible shipping damage. If any damage is found, proceed to "CONCEALED DAMAGE OR MISSING PARTS."

- STEPS:
1. Remove all protective packing material from machine.
  2. Place machine in its operating location and remove skid.  
CAUTION: INSURE WEIGHT OF MACHINE IS EVENLY DISTRIBUTED WHEN REMOVING FROM SKID INTO POSITION.
  3. Adjust all (4) adjustable bullet feet so contact is made to floor. See "LEVELING OF DISHWASHING MACHINE" section.

## **2-3. Concealed Damage or Missing Parts**

IMPORTANT: FOR YOUR PROTECTION, PLEASE READ AND OBSERVE THE FOLLOWING:

This dishwashing machine has been thoroughly inspected and carefully packed before leaving our warehouse.

Concealed loss or damage means loss or damage which does not become apparent until the dishwashing machine has been unpacked. The contents may be damaged in transit due to rough handling even though the carton may not show external damage.

If it is found that the shipment has concealed damage, PLEASE DO NOT RETURN IT TO US, but notify carrier (within 48 hours), asking them to send their agent to fill out an inspection report. Save the cartons so he may see them and be sure to note in the report any black marks, creases, tears, crushed corners or any other marks indicating rough handling. Also notify the Dealer where dishwashing machine was purchased and/or Jackson Products Sales Department immediately.

If it is discovered that there are missing parts, such as Strainers, Spray Assembly, Rinse Assembly, Owner's Manual or racks, please notify the Dealer where dishwashing machine was purchased and/or Jackson Products Sales Department immediately.

The following parts are supplied with the dishwashing machine and are packed inside of machine:

1. Instruction manual
2. Strainer
3. Complete wash head assembly with retaining pin
4. Complete lower rinse arm assembly
5. Adjustable feet (4 each)
6. Deck mounting tracks (2 each)
7. Deck mounting track caps (4 each)
8. Tube brush
9. Racks (2 each)

## **CHAPTER 2 — INSTALLATION INSTRUCTIONS**

### **2-4. Deck Mounting of Dishwashing Machine**

The dishwashing machine must be secured in place using the deck mounting tracks and caps provided with machine.

REFER TO FIGURE 1

1. Install the (4) adjustable feet provided into screw holes where shipping bolts were removed earlier.
2. Adjust the level of the dishwashing machine by screwing the adjustable feet in or out. The front of the machine should be adjusted  $\frac{1}{4}$ " to  $\frac{1}{2}$ " higher than the back.
3. Install the deck mounting hardware as shown in FIGURE 1 to the deck at location where dishwashing machine will be permanently positioned. Install  $\frac{3}{8}$ " stainless steel lug bolts to secure tracks and caps to deck.
4. Drill holes into deck as shown in FIGURE 1 and insure rear holes are located  $2\frac{1}{4}$ " from wall.
5. The tracks and the rear end caps may be tightened at this time.
6. Slide dishwashing machine onto tracks and into position at rear end caps.
7. Install front end caps into place and adjust if necessary to remove any movement of machine; if possible, tack weld tracks to deck.

### **2-5. Gravity Drain System**

The drain from the dishwashing machine is a gravity drain system and should have the proper drop from the machine to floor drain system.

REFER TO FIGURE 2

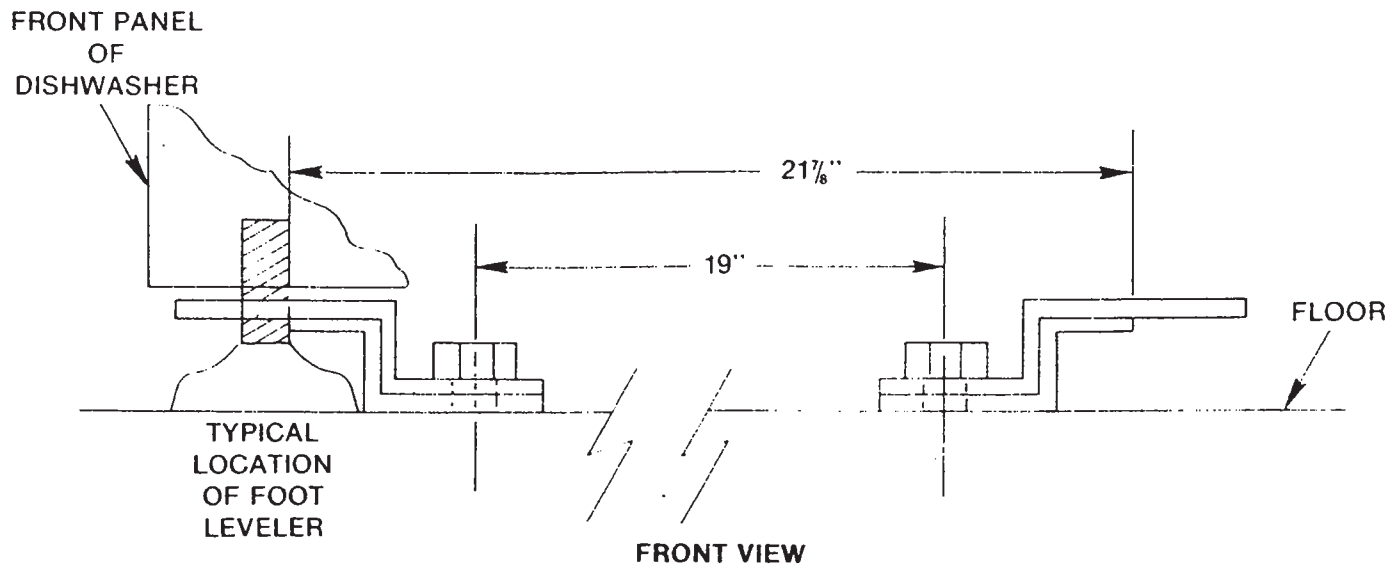
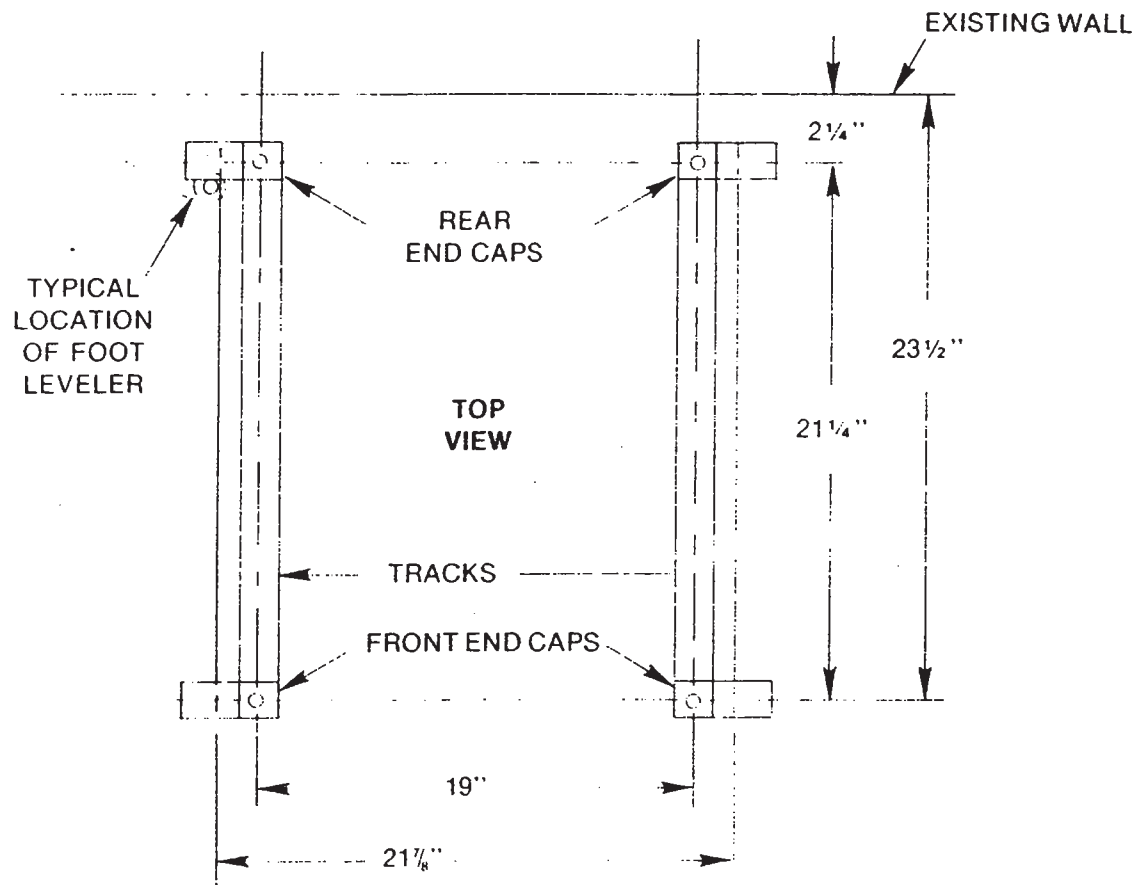
1. Install hose to drain tube located at left rear of machine as shown in FIGURE 2. Drain tube is  $1\frac{1}{2}$ " in diameter and 7" from floor.

# CHAPTER 2 — INSTALLATION INSTRUCTIONS

FIGURE 2-1

INSTALLATION OF DECK HARDWARE TO SECURE DISHWASHER MACHINE

Not To Scale



## **CHAPTER 2 — INSTALLATION INSTRUCTIONS**

### **2-6. Steam Equalizing Vent**

The steam equalizing vent is located on the back upper left corner of the dishwashing machine. The vent should not be blocked or prevented from venting steam off from inside of unit. Undercounter machines are not excluded from this requirement.

REFER TO FIGURE 2-2

1. Install 1¼" pipe to equalizing vent fitting and connect to appropriate venting system. NOTE: Do not pipe steam line downward toward floor; this will restrict venting of steam.

### **2-7. Electrical Power Connection**

#### **WARNING**

All field wiring connections must conform to the Local and National electrical codes. Install proper circuit breaker, wire and conduit size. Make sure all electrical connections agree with voltage listed on equipment.

MACHINE DATA PLATE is located at top of inner door.

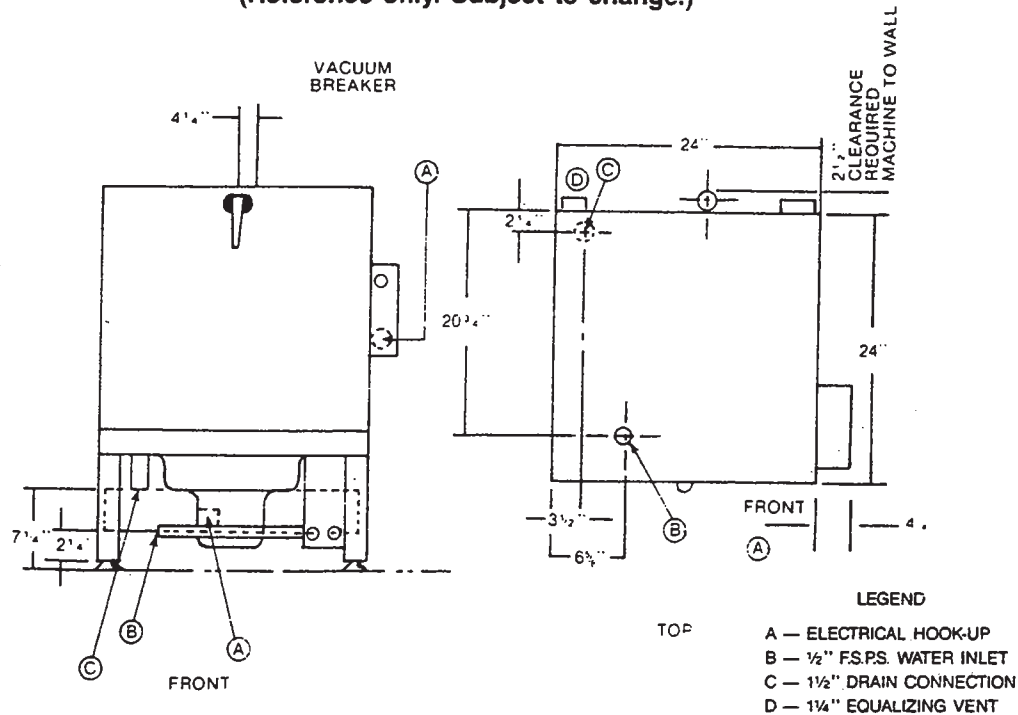
REFER TO FIGURE 2-2

1. Remove control box side panel and lay aside.
2. Make electrical connection through conduit hole provided at rear of box and connect 440 VOLT, 60 HZ, 3 PHASE service to terminal block marked L1, L2 and L3.

# CHAPTER 2 — INSTALLATION INSTRUCTIONS

## FIGURE 2-2

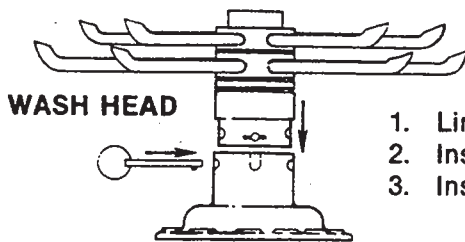
**DIMENSIONAL DATA — DISHWASHING MACHINE**  
(Reference only. Subject to change.)



## 2-8. Wash Head and Rinse Spray Arm Installation

### FIGURE 2-3

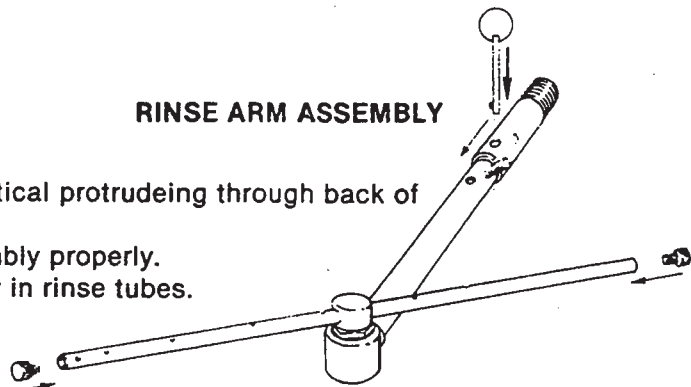
**INSTALLATION OF WASH HEAD AND RINSE ARM ASSEMBLIES**  
(Items disassembled for shipment.)



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.
2. Insert rinse arm assembly into female receptical protruding 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.



# CHAPTER 3 — OPERATION

## 3-1. Operating Instructions

**Note:** Read the following instructions carefully. Proper operation of your Jackson Dishwashing Machine 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:** Silverware in the upright position washes and rinses better than lying flat. These silverware compartment racks are available through your dealer or Service Agency.

### Operating Instructions:

1. Install pan strainer and the wash and rinse arms. Close the door and push until the handle latches.
2. Push the On/Fill-Off/Drain switch to the up 'ON/FILL' position. The machine power light will come on and so will the rinse heaters. The machine will begin to fill automatically and stop by itself.
3. After the machine has completed filling, open the door and put in a rack of soiled dishes. Close the door.
4. After the door has been closed, the cycle light will come on. There will be a 2-second delay before the wash cycle begins.
5. The machine will wash for 130 seconds and rinse for 15 seconds. After the cycle has finished, the cycle light will go out.
6. Open the door and remove the sanitized dishes. The machine is ready for another cycle.
7. To manually wash, push the manual wash switch to the up 'Manual' position. The machine will wash indefinitely. This function can also be used to delime. To resume normal operation, push the manual wash switch to the down 'Auto' position.
8. To drain the machine, close the door and latch. Push the On/Fill-Off/Drain switch to the 'OFF' position. All machine functions will be off. Push On/Fill-Off/Drain switch down to the momentary drain position. This will begin the drain cycle. After the machine is drained, it will turn itself off.
9. Open the door. Remove and clean the pan strainer and the wash arms.
10. Wash heater protection is provided by two means. Primary protection is given by the water level control which senses the water level with a probe. If this should fail due to excessive build up on the probe, the secondary thermal protection will cut out the wash heater before damage occurs.
11. When the secondary heater protection has been used, it will be indicated by the illuminated red reset light. The following steps are necessary in this situation:
  - A. Turn off power supply.
  - B. Open the door and remove the wash and rinse arms and the pan strainer.
  - C. Locate the probe. It is in the wash sump on the left hand side.
  - D. Using a deliming compound and a brush, clean the probe.
  - E. Reinstall the wash and rinse arms and the pan strainer.
  - F. Push the reset button, located above the reset light.
  - G. Push On/Fill-Off/Drain switch to the 'ON/FILL' position. The machine should begin to fill. If it does not and the reset light comes on again, call an authorized service agency.

## 3-2. Detergent Recommendations and Rinse Additives

We suggest that you contact your local Detergent Specialist for the correct detergent and rinse additives for your area. Dump the detergent on the pan strainer. This may have to be increased or decreased to obtain satisfactory results.

**VERY IMPORTANT:** Do not use a domestic type detergent in this machine at any time. This type of detergent may damage and/or obstruct pump operation and may cause corrosion to tank.



# **CHAPTER 4 — CARE AND CLEANING**

## **4-1. General Cleaning**

### **USER SERVICEABLE AREAS**

**(THE FOLLOWING IS TO BE PERFORMED DAILY OR AS NEEDED.)**

**Note:** Read the following instructions carefully. Proper maintenance of your Jackson Dishwashing Machine must be conducted for warranty consideration.

- 1. Remove all lime and corrosion deposits.**
  - a. 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.
  - e. After the interior is clean, with door closed, empty the wash water by turning switch to the "off/drain" position. 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.**
  - a. 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 water level probe in sump with brush to remove any scale or build-up.**
- 6. Clean wash head assembly.**
  - a. Remove pin 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.)
- 7. 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, dip in wash tank water and scrub inside door around gasket and hinges. Use clean cloth or paper towel to wipe off loose residue.

### **HARD WATER AREAS**

**Very Important:** Areas known to have hard water (7-10.5 grains per gallon) or very hard water (10.5+ grains per gallon) must consider installing a water softner system to prevent scaling of heater elements and water probes which could cause damage not covered under normal warranty conditions.

# **CHAPTER 4 — CARE AND CLEANING**

## **4-2. Wash Head and Rinse Arm Cleaning**

### **USER SERVICEABLE PARTS**

**(THE FOLLOWING IS TO BE PERFORMED DAILY OR AS NEEDED.)**

Refer to Figures 4 and 5:

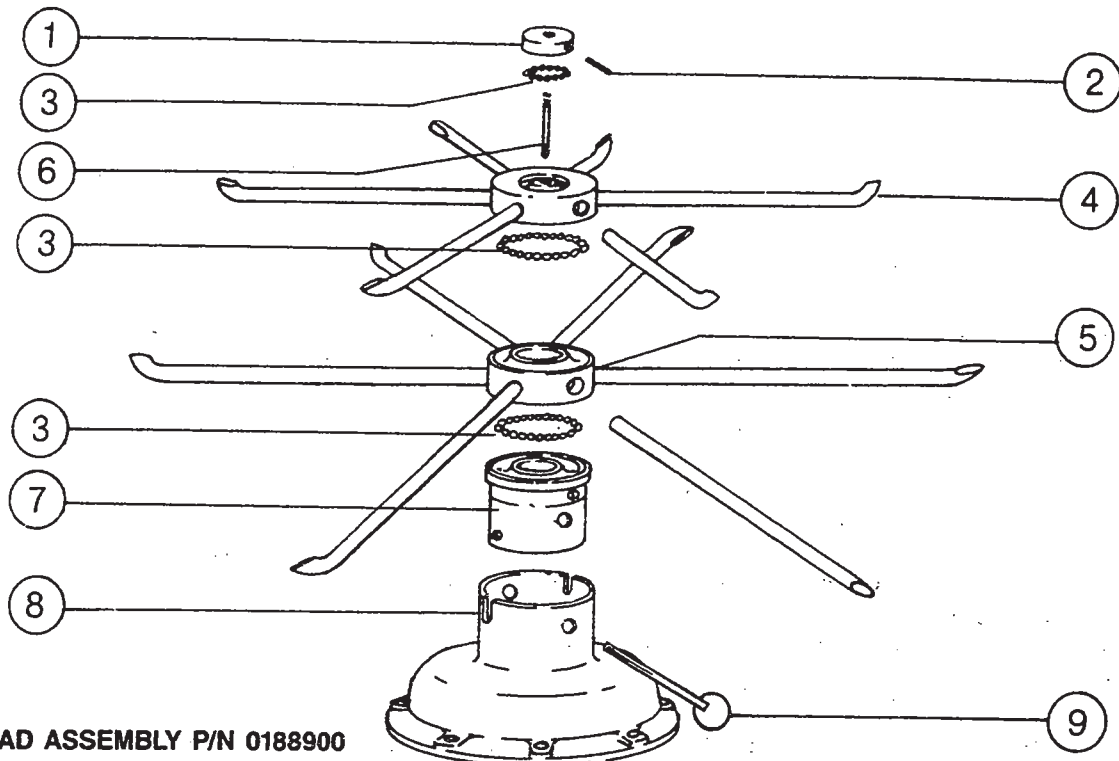
1. Drain unit by placing switch in the off/drain position.
2. Open the door and allow the unit a few minutes to cool off.
3. Remove the pin holding the rinse feed pipe. Pull the feed pipe out of the nipple and lay it to one side.
4. Remove wash head assembly by pulling out the holding pin and lifting assembly. Place the wash head on a table for disassembly.
5. Locate Allen head set screw in the wash head cap, insert Allen wrench and loosen screw by turning counterclockwise.
6. Turn wash head cap counterclockwise until cap is removed and put cap in safe place.
7. Remove  $\frac{1}{4}$  " stainless ball bearings carefully and put it in a receptacle in a safe place.
8. Lift and remove small manifold with short tubes. Put it in a safe place.
9. Remove  $\frac{1}{4}$  " ball bearing in similar method to step #7.
10. Lift and remove large manifold with large length tubes similar to step #8.
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  $\frac{1}{4}$  " ball bearings, then remove one. This will give proper movement needed during rotation of assembly.
15. Replace lower manifold and fill race fully with  $\frac{1}{4}$  " 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  $\frac{1}{4}$  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  $\frac{1}{4}$  " and no more than  $\frac{1}{4}$  ".
20. Replace wash head assembly and rinse arm.
21. Close the front door and refill dishwasher.
22. Run through several cycles and recheck wash arms for easy movement. Adjust if necessary.

**Note:** It is important that the wash head and rinse arm be kept clean and free from obstruction. Improper maintenance to these assemblies may create problems not covered under normal warranty conditions.

# CHAPTER 4 — CARE AND CLEANING

**FIGURE 4-1**

WASH HEAD ASSEMBLY P/N 0188900

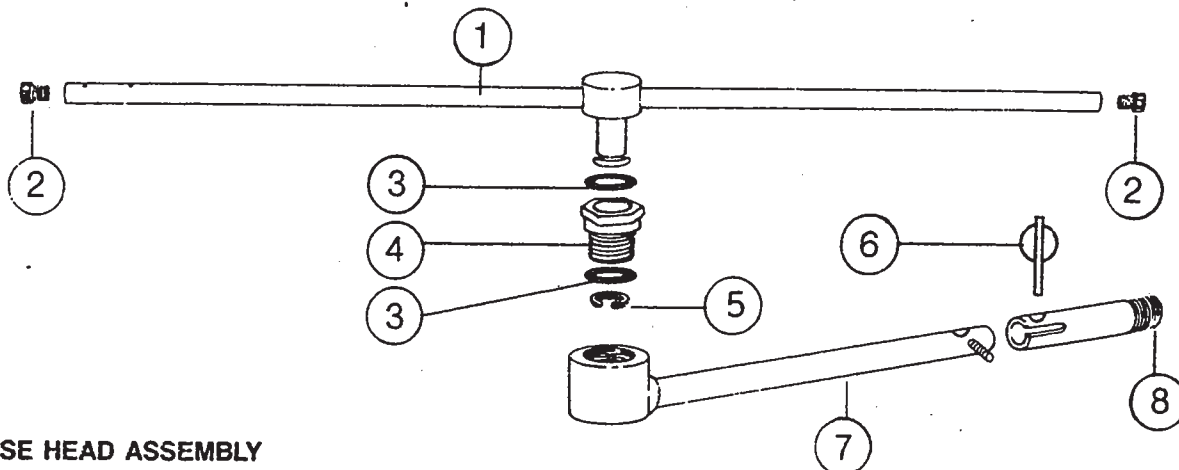


WASH HEAD ASSEMBLY P/N 0188900

ITEM	MFGR'S P/N	DESCRIPTION	FSCM	ITEM	MFGR'S P/N	DESCRIPTION	FSCM
1.	0186500	WASH HEAD CAP WITH RACE		6.	0187500	WASH HEAD CENTER SHAFT	
2.	0187000	WASH HEAD CAP SET SCREW		7.	0193601	WASH HEAD FIXED RACE	
3.	0194000	WASH HEAD BEARING 1/4" S/S		8.	0109600	UPPER PUMP HOUSING	
4.	0189000	WASH HEAD SMALL MANIFOLD w/TUBES		9.	0188601	WASH HEAD ASSEMBLY RETAINING PIN w/RING	
5.	0189500	WASH HEAD LARGE MANIFOLD w/TUBES					

**FIGURE 4-2**

RINSE HEAD ASSEMBLY (LOWER SHOWN) P/N 0125200



RINSE HEAD ASSEMBLY

ITEM	MFGR'S P/N	DESCRIPTION	FSCM	ITEM	MFGR'S P/N	DESCRIPTION	FSCM
1.-5.	0125200	RINSE HEAD ARM - LOWER COMPLETE		4.	0125500	RINSE HEAD HEX BRUSHING S/S	
2.	0126800	RINSE HEAD END PLUGS		5.	0126500	RINSE HEAD SNAP RINGS S/S	
3.	0126000	RINSE HEAD NYLATRON WASHER		6.	0137301	RINSE FEED PIPE LANYARD PIN	
				7.	0137200	RINSE FEED PIPE (LOWER)	
				8.	0137202	RINSE FEED PIPE NIPPLE	

# CHAPTER 5 — FUNCTIONAL INFORMATION

## 5-1. Solid State Timer

**General Description:** Refer to Figure 5-1

The timer is a solid state, 4 channel CMOS device with a 120V, 50 or 60 cycle, 1 amp rating. All components are environmentally encapsulated and quick connect terminals are marked for corresponding wires.

**Principle of Operation:**

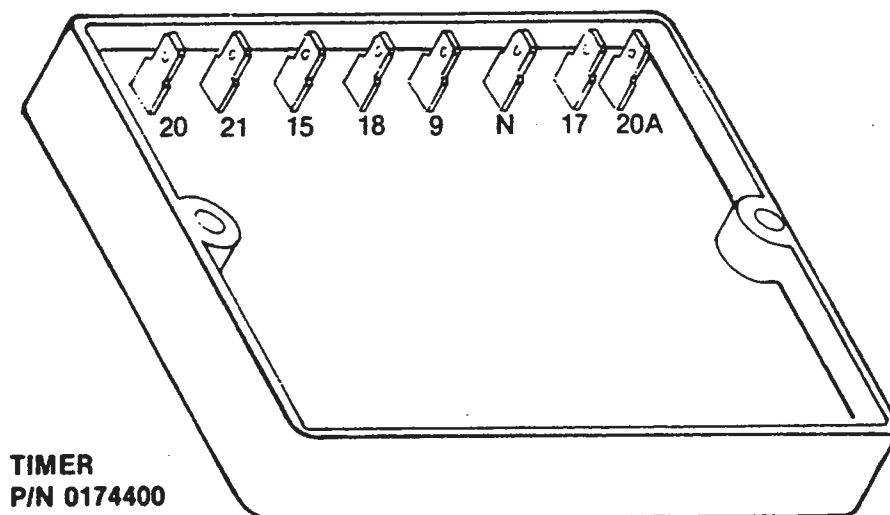
**Wash cycle function:** (Machine must fill before cycle will start.) Upon closure of door switch, cycle light will come on and remain on for the 150-second cycle. At the same time, a 2-second rinse preheat interval will begin. After the preheat, the wash cycle will start and last 130 seconds. Between wash and rinse, there is a 4-second dwell followed by a 15-second rinse. Cycle by opening and closing door switch at the end of cycle or at any point in the cycle.

**Drain cycle function:** (Power switch must be in off position and door switch closed.) When power switch is pushed to the drain position and released, a holding circuit is established between R4 drain relay and the timer. The machine will drain for 60 seconds and then break the holding circuit. Cycle is reset by opening and closing door switch and pushing power switch to drain and releasing.

**Very Important:** At no time are there to be any aftermarket equipment electric connections made to any input or load circuits of this timer. Consult factory for further information.

**FIGURE 5-1**

**TIMER P/N 0174400**



**TIMER**  
**P/N 0174400**

**FSCM**  
**No. \_\_\_\_\_**

# CHAPTER 5 — FUNCTIONAL INFORMATION

## 5-2. Water Level Control

P/N 0204400 (110V, 60 cycle)

**Function:** Refer to Figure 5-2

The water level control device is utilized on this machine to automatically control the filling of the wash tank and the activation of the wash tank heater.

**Warning:** Disconnect power to machine before proceeding to checkout.

The control is a single probe resistance sensing device designed to maintain water level. When water level reaches the probe and covers it, a fixed time delay of 25 seconds is initiated. When the delay times out, the electromechanical relay energizes, opening the 'Auto/Fill' circuit and closing the wash heater circuit. If the water level drops below the probe, the relay will de-energize, opening the wash heater circuit and closing the 'Auto/Fill' circuit.

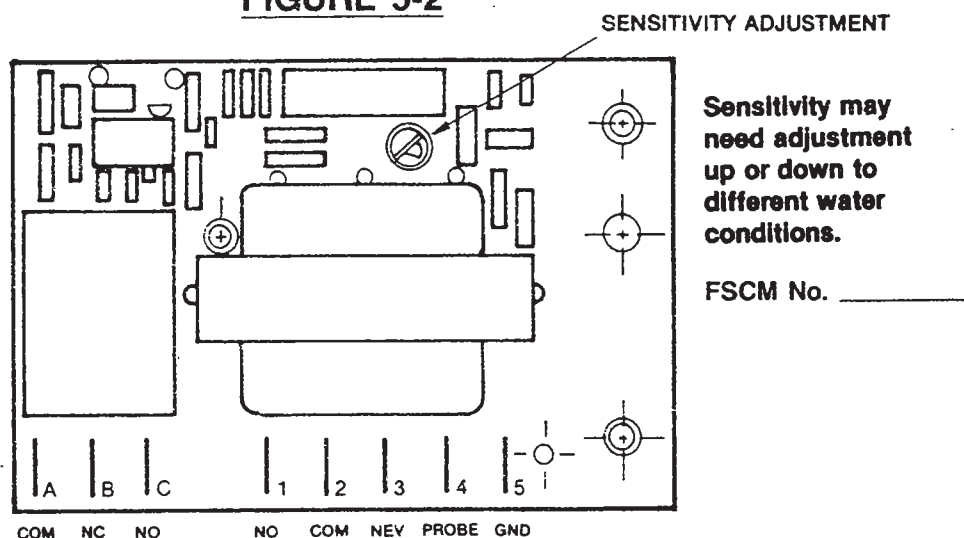
### Symptoms of Level Control Failure:

1. 'Auto/Fill' will not shut off when water reaches the proper level. (Check sensitivity adjustment.)
2. Machine will partially fill.

### Proceed with Checkouts:

1. Remove power source to machine by moving circuit breaker to 'OFF' position.
2. Remove screws holding lower kick plate to the front of machine and locate water level control. (See sketch below.)
3. Remove, mark and insulate (for easy replacement), wires going to pin numbers 4 and 5.
4. Re-apply power. Turn on 'ON/FILL' switch. With an insulated wire, connect jumper wire between pins 4 and 5. (12 volt system)
5. Wait for 25 seconds. The electromechanical relay will energize. If this occurs, control can be deemed operational; then other causes should be explored.
6. If relay doesn't operate, check GND and input voltages. Replace if needed.
7. Remove power source once again and replace wires that were removed in step three to original pins. (See trouble shooting section for other possible causes.)

**FIGURE 5-2**



## **CHAPTER 5 — FUNCTIONAL INFORMATION**

### **5-3. Switches, Circuit Breaker and Indicator Lights**

**On/Fill  
Off/Drain  
Switch:**  
**P/N 0155600**

**FSCM No. \_\_\_\_\_**

This switch serves as the main control for the unit. When pressed into the 'on' position, it activates the heater controls, the automatic fill and readies the unit for the wash cycle. When turned off, all power is off. When pushed to drain position and released, the unit will drain and turn itself off.

**Power Light:**  
**P/N 0083518**

**FSCM No. \_\_\_\_\_**

This light comes on when the unit is turned on and goes off when the unit is turned off.

**Door Switch:**  
**P/N 0164000**

**FSCM No. \_\_\_\_\_**

Located on top of the unit, behind the latch bracket, this switch serves three functions. When the door is opened, it will reset the timer to the cycle starting position. When door is closed, it will start the automatic cycle. If door should be opened during a cycle, it would act as a safety switch by turning the unit off.

**Cycle Light:**  
**P/N 0083507**

**FSCM No. \_\_\_\_\_**

This green light comes on only when the automatic cycle is in progress and goes off when the cycle is complete.

**Manual Wash  
Switch:**  
**P/N 0159700**

**FSCM No. \_\_\_\_\_**

This switch is used to bypass the timer and operate the wash pump manually. The wash pump will run as long as this switch is 'on'. Its prime purpose is to extend the wash period for heavily soiled dishes, but it may be used for deliming.

**Heater Reset  
Button:**  
**P/N 0169601**

**FSCM No. \_\_\_\_\_**

This is the reset button on a thermostatic overload. Its purpose is to provide a secondary protection for the wash tank heater element. If the heater element should come on while the wash tank is empty, this button would pop out, turning off the element and signaling a problem with the automatic fill.

**Reset Light:**  
**P/N 0083518**

**FSCM No. \_\_\_\_\_**

This light comes on only when the heater reset trips off. Its purpose is to signal that there is a problem.



# CHAPTER 6 — SERVICE AND ADJUSTMENTS

## 6-1. Thermostat Adjustment

Refer to Figure 6-1.

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  $\frac{1}{8}$  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.

### WARNING

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

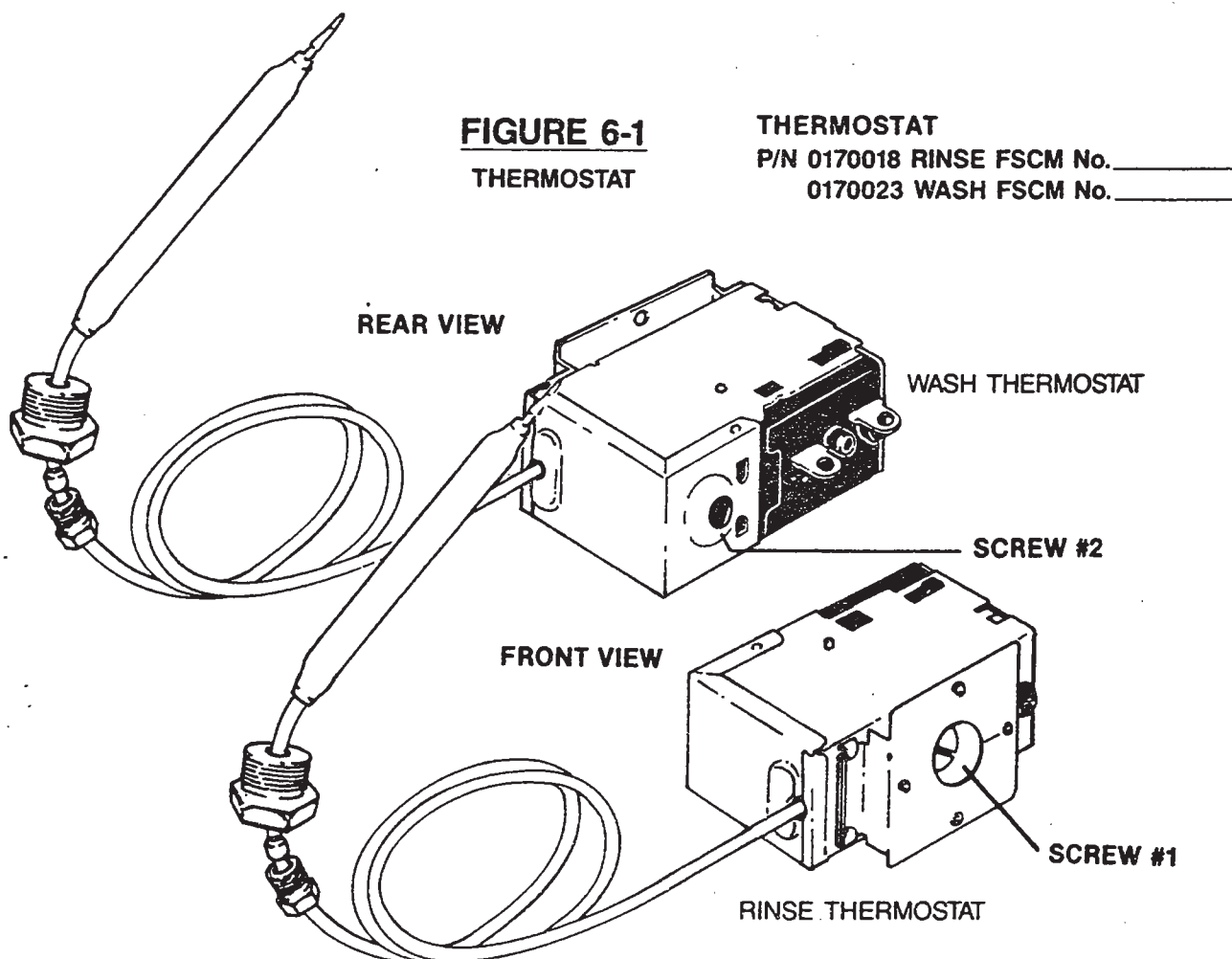
Set screw #1 so that it can be turned equal distances in either direction, then:

— if screw #1 stopped while turning in CW direction, turn screw #2 in CW direction, slowly and only  $\frac{1}{8}$  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  $\frac{1}{8}$  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.



# CHAPTER 6 — SERVICE AND ADJUSTMENTS

## 6-2. Incoming Water Solenoid Service

### SOLENOID VALVE COMPLETE

P/N 1420 (110V, used on 60 cycle machine) 1/2"

FSCM No. \_\_\_\_\_

P/N 1425 (220V, used on 50 cycle machine) 1/2"

FSCM No. \_\_\_\_\_

To take the valve apart: (refer to Figure 6-2)

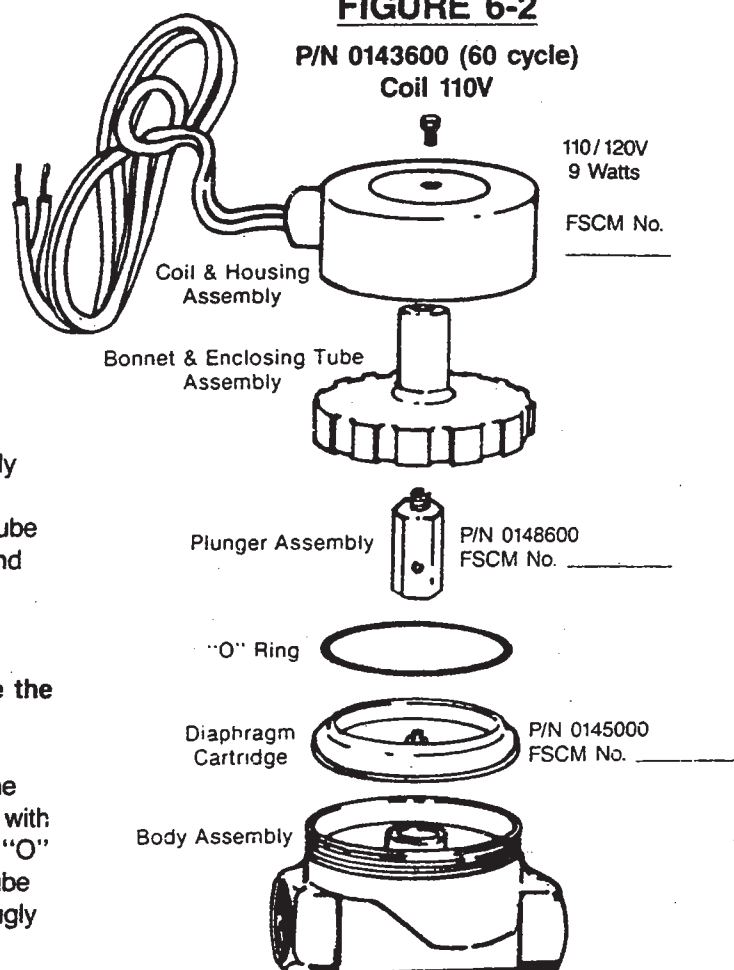
**Disassembly** — These valves may be taken apart by unscrewing the bonnet and the enclosing tube assembly from the valve body assembly. See Fig. 6-2. After unscrewing, carefully lift off the bonnet and enclosing tube assembly. Don't drop the plunger. The "O" ring seal and diaphragm cartridge can now be lifted out.

### CAUTION

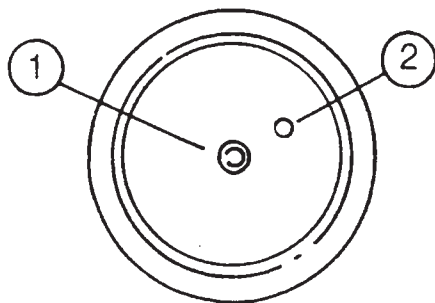
Be careful not to damage the machined faces while the valve is apart.

**To Reassemble** — Place the diaphragm cartridge in the body with the pilot port extension 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.

**FIGURE 6-2**



### DIAPHRAGM CARTRIDGE



### Solenoid Coil Test

Coil Resistance — OHMS - 1600

No continuity, open circuit or erroneous

OHMS — replace coil

### Possible Problems

Pilot Port extension #1 clogged

Hole #2 clogged

### Remedy

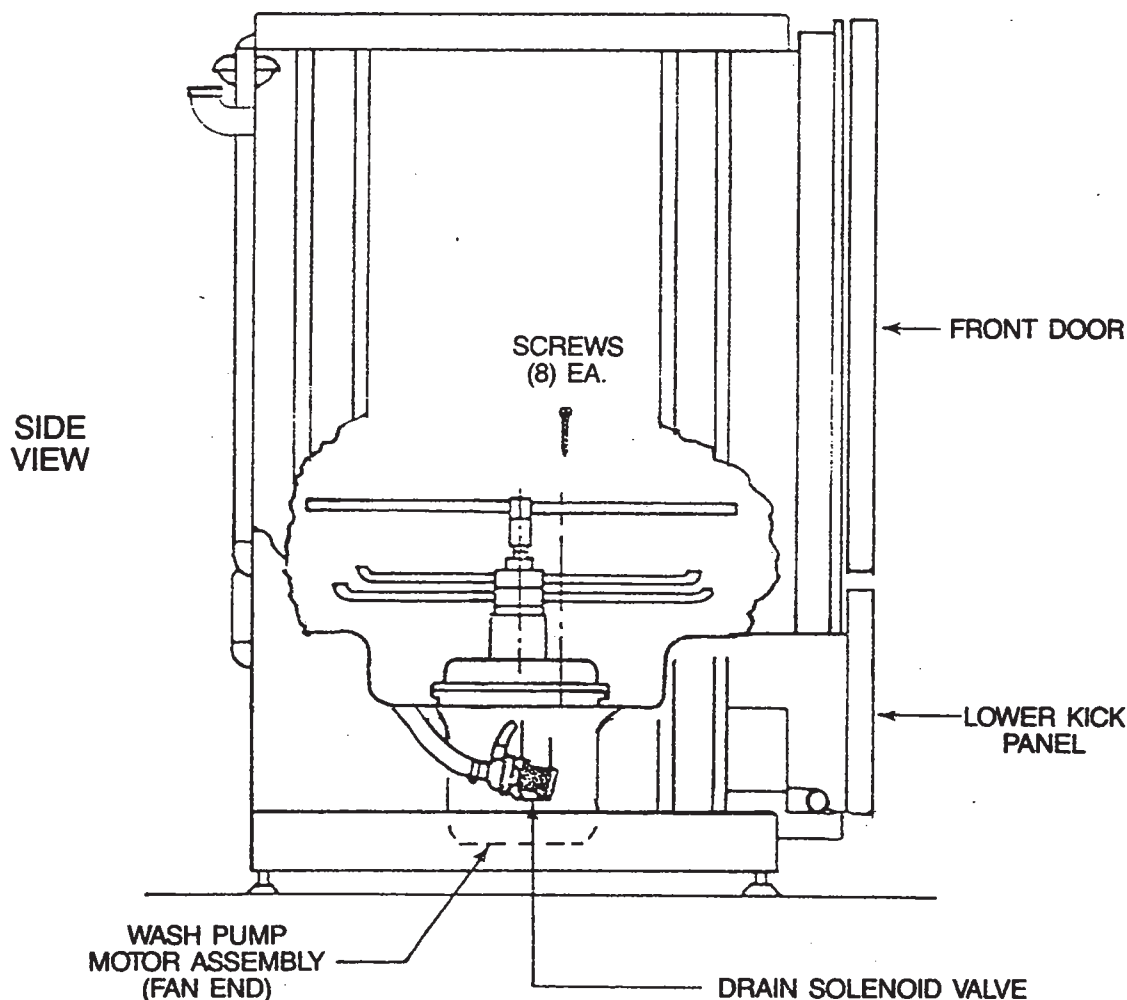
Pass heated straight pin through hole #2 or clean hole #1



# CHAPTER 6 — SERVICE AND ADJUSTMENTS

## 6-3. Wash Pump Motor Assembly

**FIGURE 6-3**



### Wash Pump Motor Assembly Repair/Replacement

REFER TO FIGURE 6-3 ABOVE

**CAUTION: DISCONNECT POWER TO MACHINE BEFORE SERVICING**

1. Drain unit completely.
2. Remove wash and rinse spray heads.
3. Remove pump hose to drain solenoid.
4. Remove eight (8) screws mounting pump flange to sump.
5. Lift pump motor assembly up and out of sump while disconnecting electrical harness from fan end of pump motor.
6. Remove old gasket and mounting clips from pump mounting surface and scrape surface clean.
7. Once mounting surface is clean, install new mounting clips to mounting holes.
8. Apply liberal amount of silicone/pipe sealant to mounting surface and mounting clips.
9. Affix gasket to mounting surface and center holes.
10. Plug new pump motor harness into machine harness and mount pump motor assembly to gasket and center holes.
11. Apply sealant into pump motor mounting holes and fasten with screws in a clockwise manner.
12. Reattach drain solenoid hose to pump port and tighten.

**CAUTION:** Pour some water into sump area to check for leaks before filling unit up completely.

# CHAPTER 7 — TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Water overflow out bottom of front door when wash pump is operating.	Machine not ½ " higher in front than rear. Overflow drain clogged. Excessive inlet pressure. Water level in machine's wash reservoir too high.	Increase height in front. Slight tilt to rear Remove obstruction, checking inside of machine first. Install pressure reducing valve. Solenoid valve not closing at end of fill or rinse cycle causing excessive water problem.
Wash motor doesn't operate on manual wash.	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.)	Reduce quantity of detergent. Allow free steam flow.  Check all wires in the motor and reconnect as necessary.  Replace.  Replace.  Replace.
<b>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.</b>		
Motor runs on manual wash but doesn't operate on automatic (rinse operates okay on both manual and automatic cycles.)	Defective timer.	Replace timer.
No water comes through the rinse arms when the 'on/fill' switch is depressed.	Defective circuit in manual wash switch.  Hand water valve to machine not turned on.  Defective coil on solenoid valve.  Probes are dirty or coated.  Defective water level control.	Replace switch.  Turn on water valve.  Replace coil.  Clean probes.  Replace.
Little or no water coming through rinse assemblies.	Limed up rinse heads or piping.  Water pressure low.	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.

## CHAPTER 7 — TROUBLE SHOOTING GUIDE

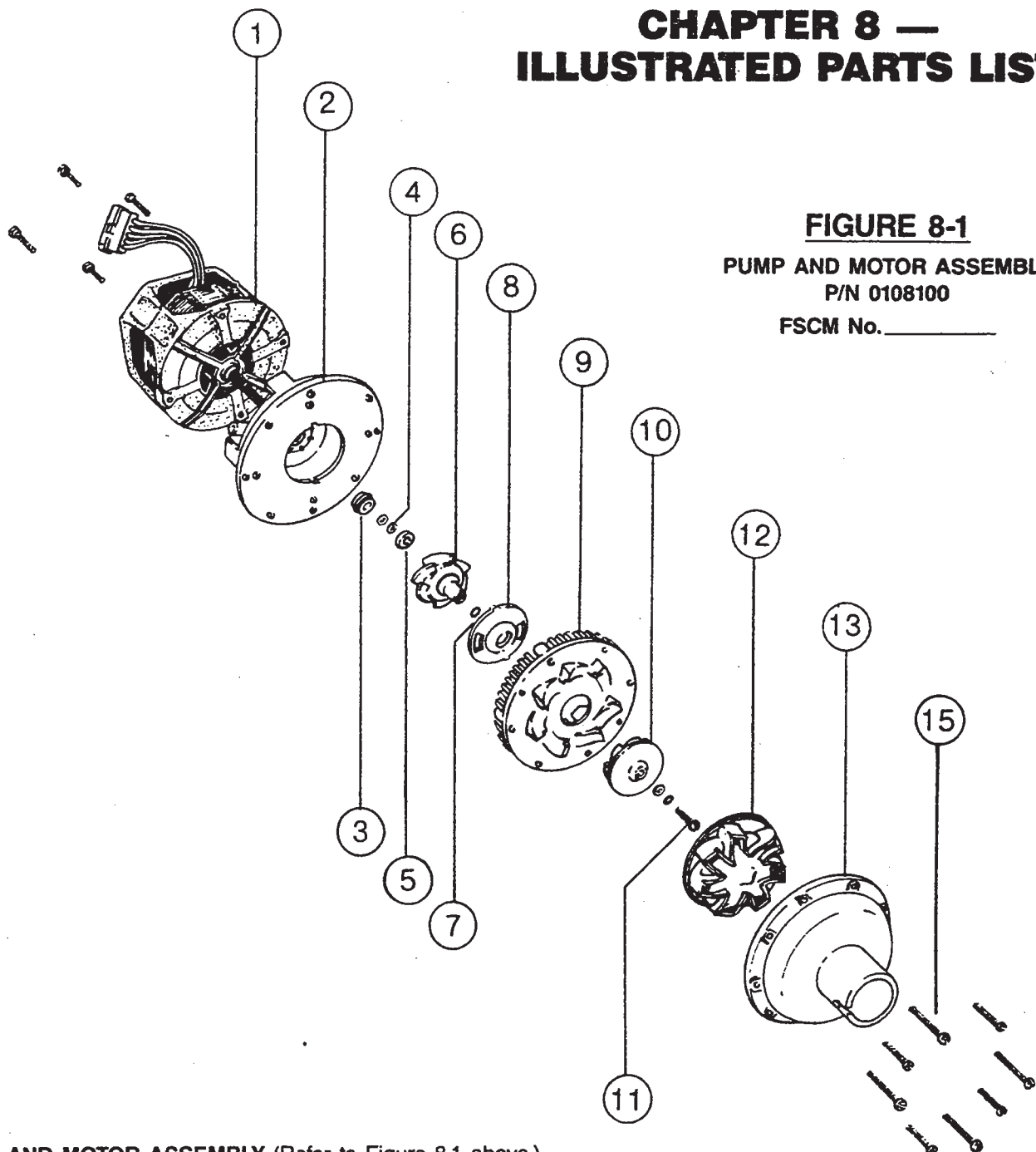
PROBLEM	CAUSE	SOLUTION
Rinse doesn't operate on automatic during timed cycle (but does operate on auto/fill operation).	Timer defective.	Replace.
Rinse water runs continuously with circuit breaker controlling machine turned off.	Defective plunger in solenoid valve.	Replace plunger.
	Defective diaphragm in solenoid valve.	Check both holes in diaphragm 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 fails to correct situation, replace diaphragm.
<b>Note: In disassembling solenoid valve, use instructions shown on separate page.</b>		
Rinse water runs continuously with power applied to machine, but when circuit breaker to machine is turned off, water stops.	Defective water level control.	Replace.
	Probes are dirty or coated.	Clean probes.
<b>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.</b>		
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 reservoir 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.
<b>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.</b>		

# CHAPTER 7 — TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Rinse water not at required temperature range.	Thermostat defective.	Adjust using instructions on thermostat page and heater system's checkout page. Replace if necessary.
	Water level protection control defective.	Replace. (Auto/fill would run continuously.)
	Heater element defective.	Replace.
	R-2 defective.	Replace.
After filling machine with water, leakage began at lower front panel without machine operating or at end of rinse cycle.	Thermometer's defective.	Replace.
	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.
	Overflow drain clogged.	Clean away obstruction.
Machine doesn't drain when 'off/drain' switch is depressed.	Drain solenoid clogged.	Remove obstruction.
	Defective switch.	Replace.
	Defective motor or motor start relay.	Replace.
	Defective drain solenoid.	Replace.
	Defective timer.	Replace timer.
	Defective relay.	Replace.

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

# CHAPTER 8 — ILLUSTRATED PARTS LIST



**FIGURE 8-1**

**PUMP AND MOTOR ASSEMBLY**  
**P/N 0108100**

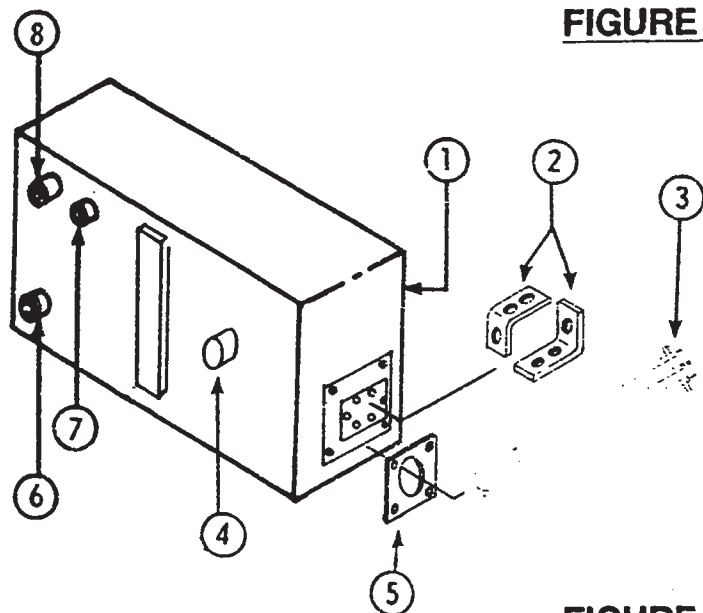
**FSCM No.** \_\_\_\_\_

**PUMP AND MOTOR ASSEMBLY (Refer to Figure 8-1 above.)**

ITEM	KIT #	DESCRIPTION	FSCM NO.
1.		MOTOR	_____
2.	0108501	MOUNTING PLATE	_____
3.	0108501	STATIONARY SEAL ASSEMBLY	_____
4.	0108501	SHIM WASHERS	_____
5.	0108501	ROTATING CERAMIC	_____
6.	0108501	PROPELLER FOR DRAIN PUMP	_____
7.	0109501	"O" RING SEAL	_____
8.	0109501	DRAIN INLET PLATE	_____
9.	0109501	SUCTION ADAPTER PLATE	_____
10.	0108501	IMPELLER FOR WASH PUMP (ALSO 0109000)	_____
11.	0109501	TRUSS HEAD SCREW	_____
12.	0109501	DIFFUSER	_____
13.	0109501	UPPER PUMP HOUSING	_____
14.	0109700	FILL HEAD MACHINE SCREW (SHORT)	_____
15.	0109800	FILL HEAD MACHINE SCREW (LONG)	_____

# CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-2**



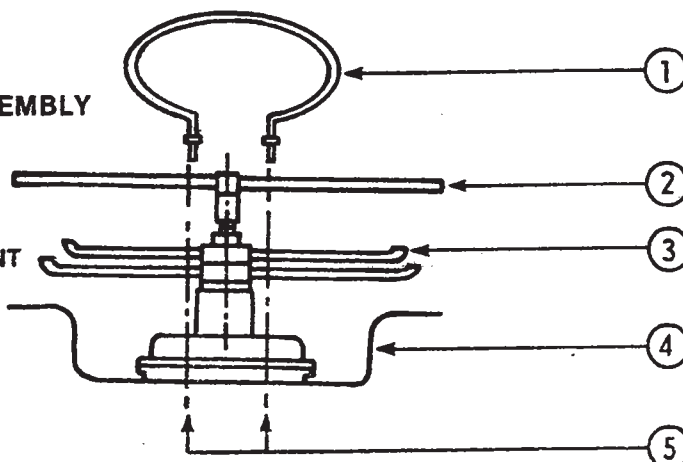
**RINSE TANK**

ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0005700	_____	BOOSTER TANK
2.	0060001	_____	BUS BAR
3.	0060000	_____	BOOSTER HEATER ELEMENT
4.	_____	_____	THERMOSTAT COUPLING
5.	0060002	_____	HEATER ELEMENT GASKET
6.	_____	_____	WATER INLET
7.	_____	_____	THERMOMETER COUPLING
8.	_____	_____	WATER OUTLET

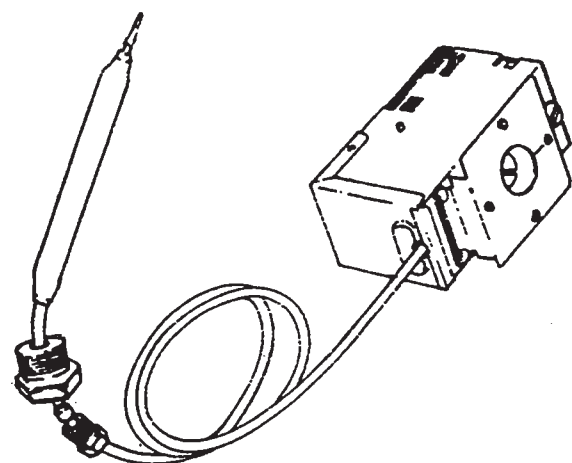
**FIGURE 8-3**

**WASH ASSEMBLY**

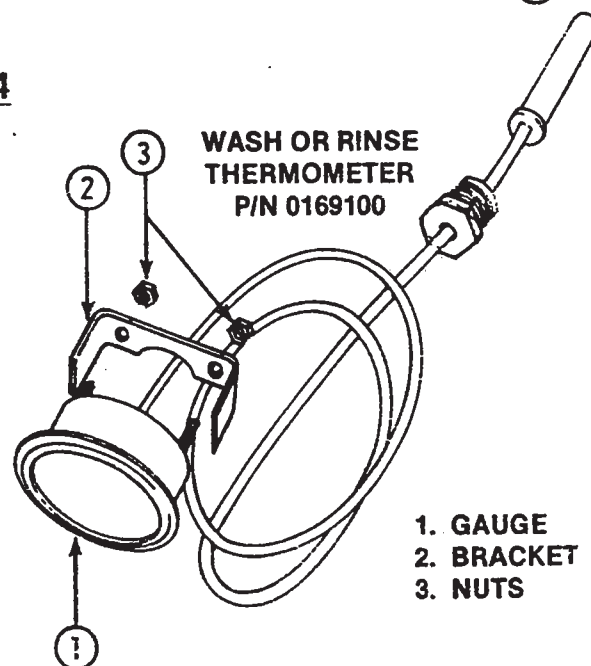
ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0056600	_____	WASH TANK RING ELEMENT
2.	0125200	_____	RINSE ASSEMBLY, LOWER
3.	0188900	_____	WASH ASSEMBLY
4.	_____	_____	WASH RESERVOIR
5.	_____	_____	HOLES FOR WASH TANK ELEMENT



**FIGURE 8-4**



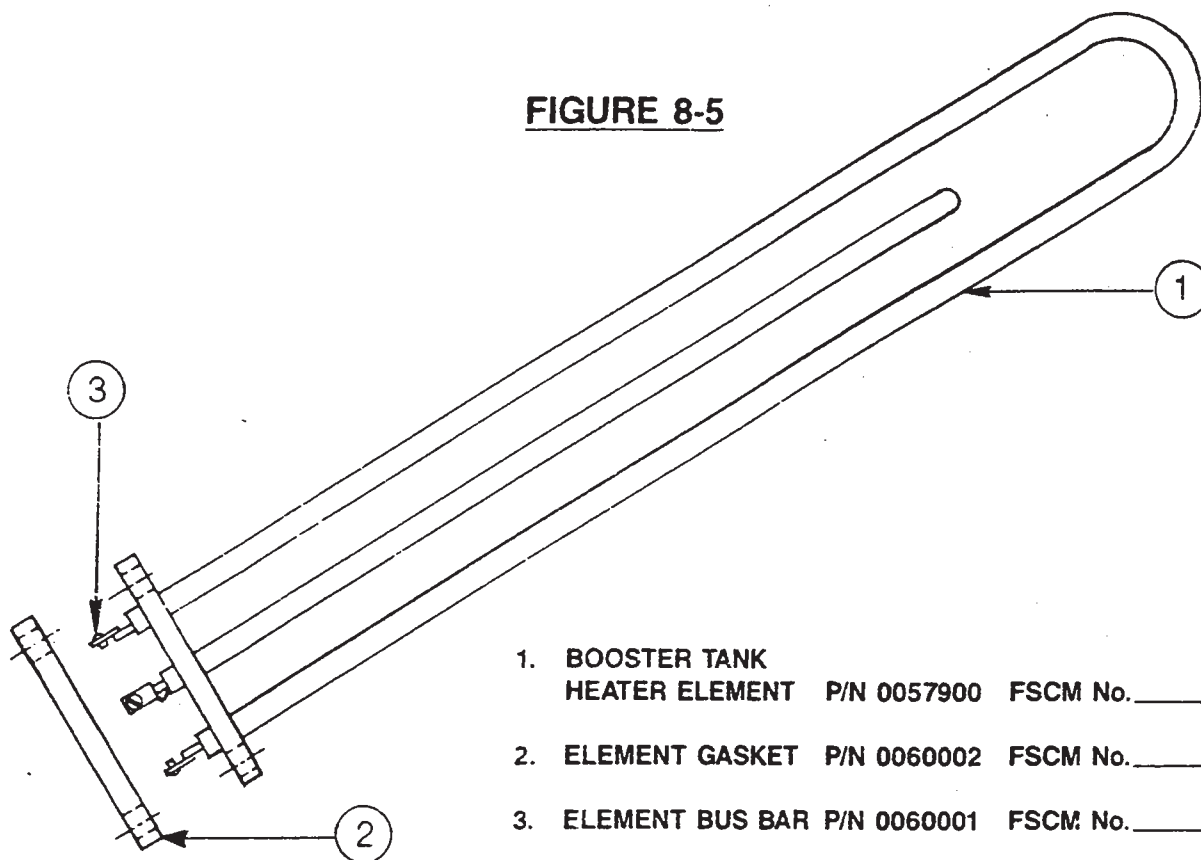
**WASH OR RINSE THERMOSTAT**  
P/N 0170018 - Rinse FSCM No. \_\_\_\_\_  
P/N 0170023 - Wash FSCM No. \_\_\_\_\_



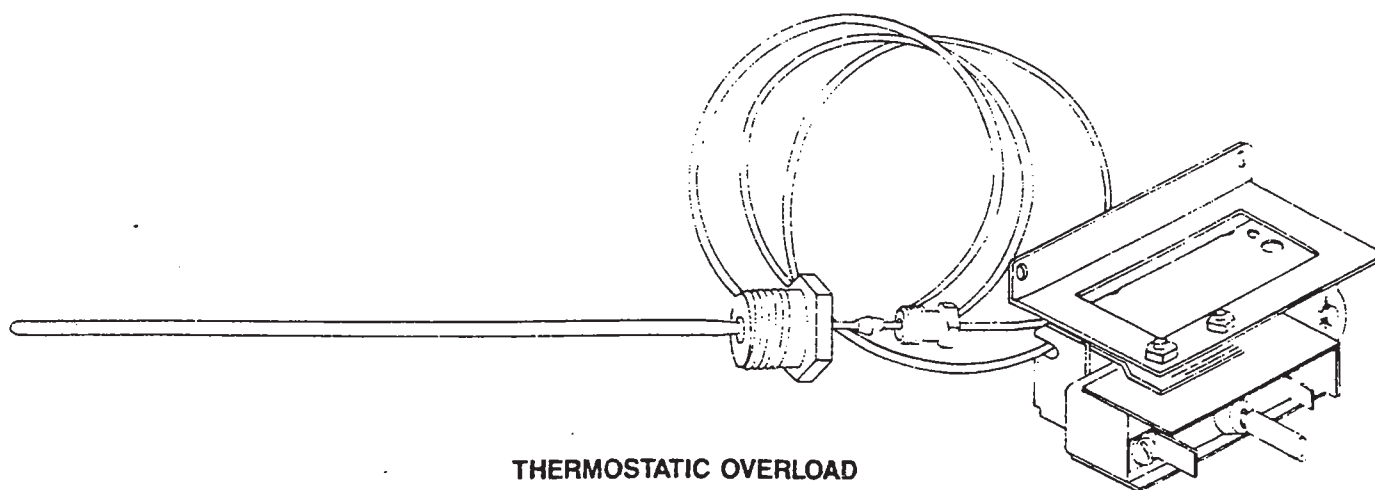
1. GAUGE  
2. BRACKET  
3. NUTS

## CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-5**



**FIGURE 8-6**

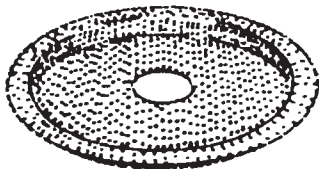


**THERMOSTATIC OVERLOAD**  
P/N 0169601  
FSCM No. \_\_\_\_\_

# CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-7**

PAN STRAINER P/N 0153100



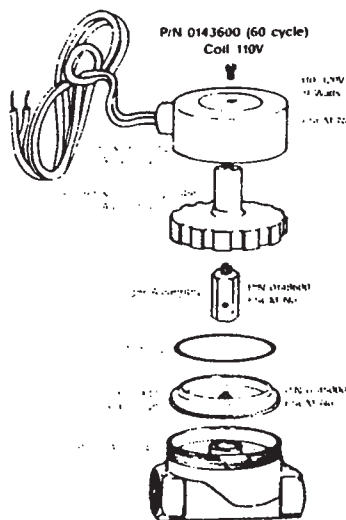
PAN STRAINER P/N 0153100

FSCM No. \_\_\_\_\_

**FIGURE 8-9**

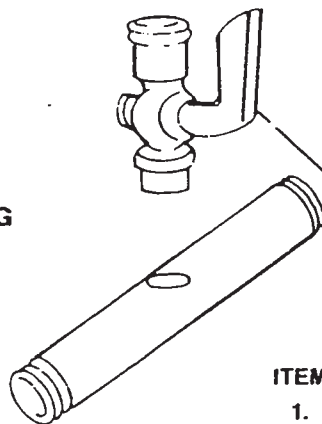
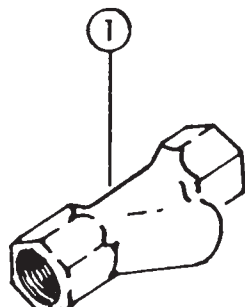
DOOR SWITCH AND  
LATCH ASSEMBLY

DOOR SWITCH and  
LATCH ASSEMBLY



**FIGURE 8-10**

INCOMING PLUMBING



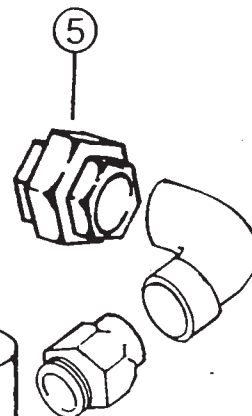
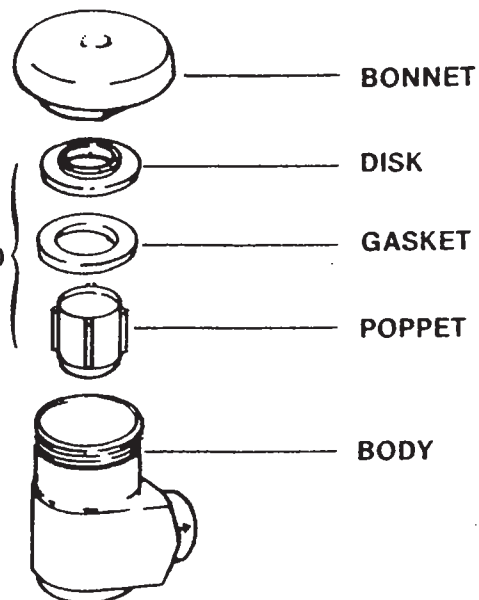
ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0153600	_____	"Y" STRAINER
2.	_____	_____	REMOVABLE FILTER
3.	0185000	_____	VALVE FOR HEALTH INSPECTOR
4.	0142000	_____	SOLENOID VALVE 1/2", (110V. used on 60-cycle machine)
5	_____	_____	PIPE UNION

**FIGURE 8-8**

VACUUM BREAKER P/N 0184101

VACUUM BREAKER

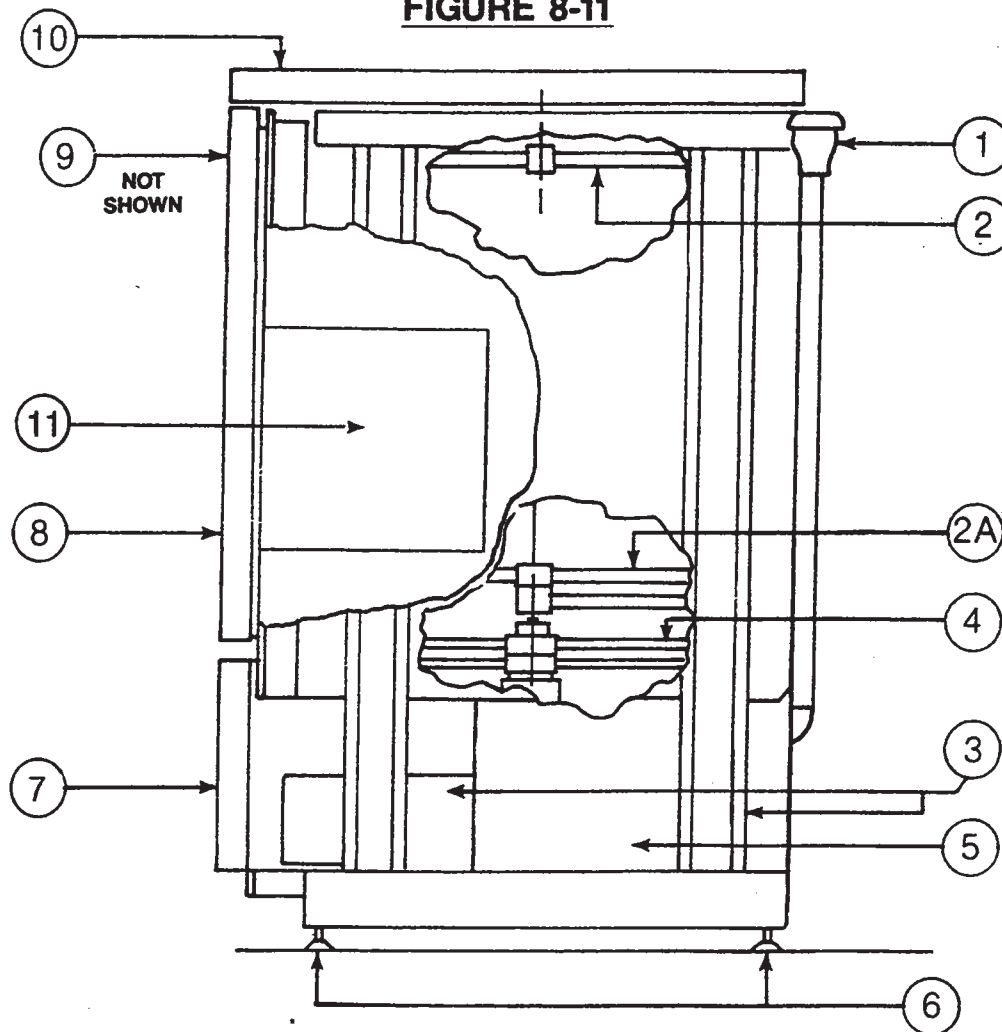
P/N 0184101





# CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-11**

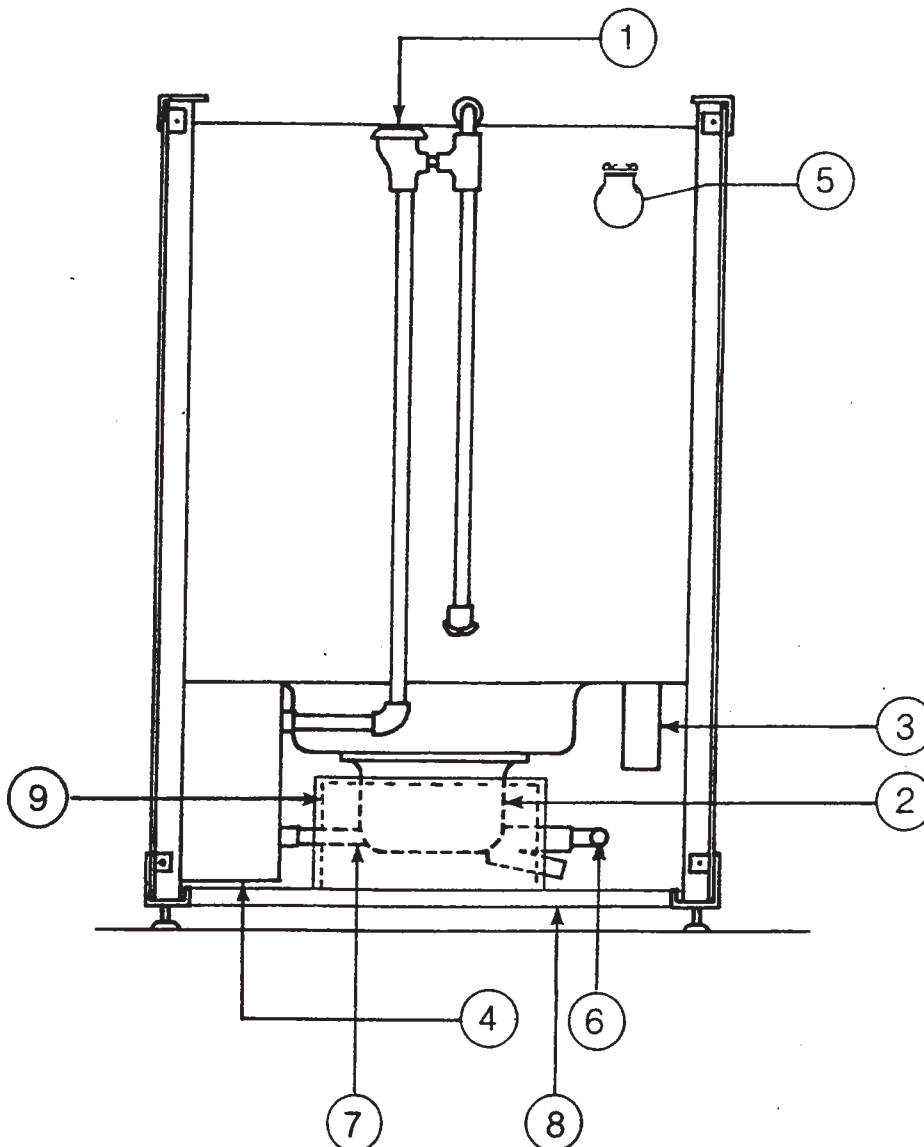


**RIGHT SIDE VIEW**

ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0184101	_____	VACUUM BREAKER ASSEMBLY
2.	0125100	_____	RINSE ASSEMBLY, UPPER
2A.	0125200	_____	RINSE ASSEMBLY, LOWER
3.	0004000	_____	SIDE FRAME & BRACE, RIGHT HAND
4.	0188900	_____	WASH ASSEMBLY
5.	0005700	_____	BOOSTER TANK
6.	0083400	_____	ADJUSTING FEET
7.	0054902	_____	KICK PANEL
8.	0052600	_____	FRONT DOOR
9.	0052700	_____	DOOR HANDLE ASSEMBLY
10.	0054700	_____	OPTIONAL TOP
11.	_____	_____	440V CONTROL BOX

# CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-12**

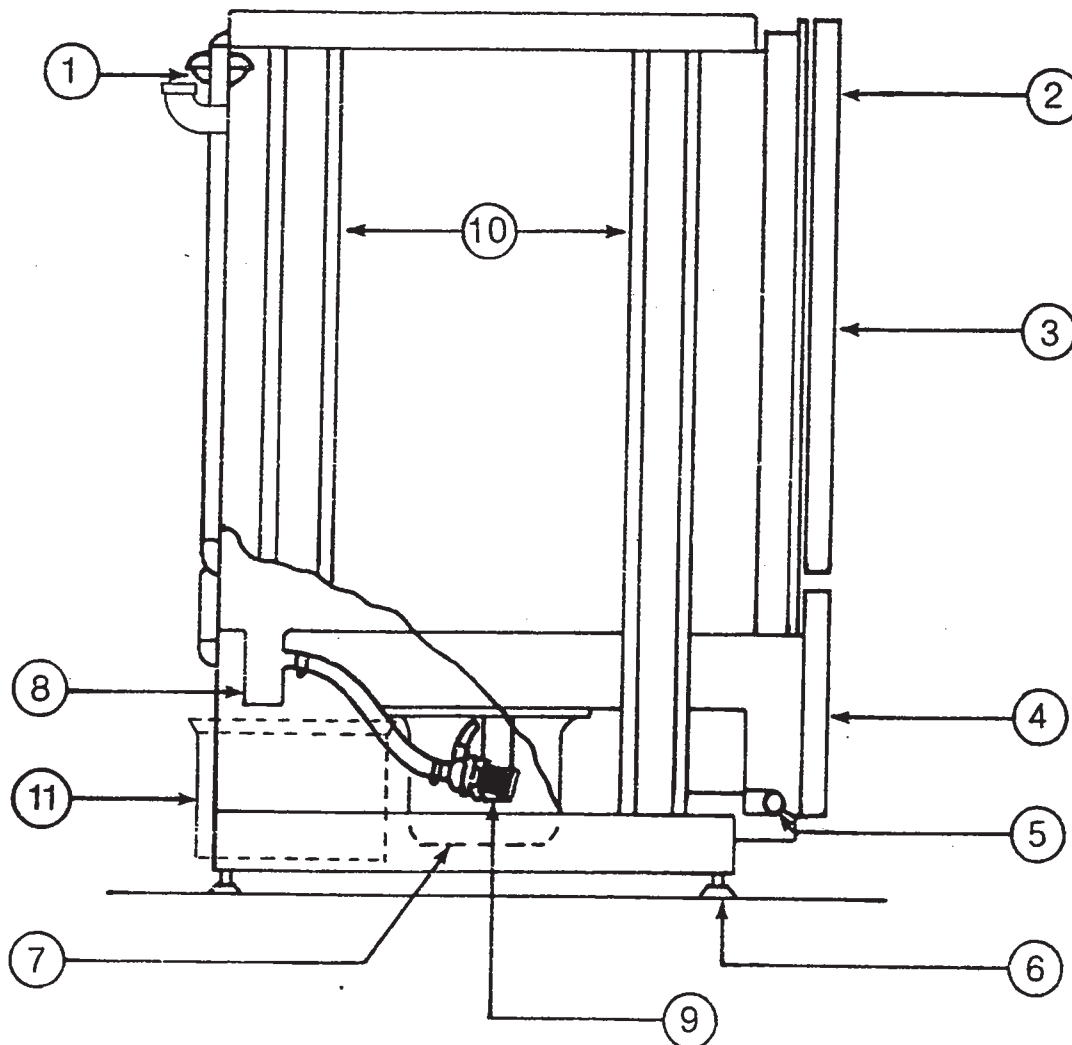


**BACK VIEW**

ITEM	P/N	FSCM NO.	DESCRIPTION
1.	00184101	_____	VACUUM BREAKER ASSEMBLY
2.	00108100	_____	PUMP & MOTOR ASSEMBLY
3.		_____	DRAIN — GRAVITY FEED
4.	0005700	_____	BOOSTER TANK
5.		_____	EQUALIZING VENT
6.		_____	INCOMING WATER CONNECTION
7.		_____	TRANSFORMER BOD W/LID
8.		_____	TRANSFORMER PLATFORM
9.	0180900	_____	TRANSFORMER, 1 KVA, 440/110V

# CHAPTER 8 — ILLUSTRATED PARTS LIST

**FIGURE 8-13**

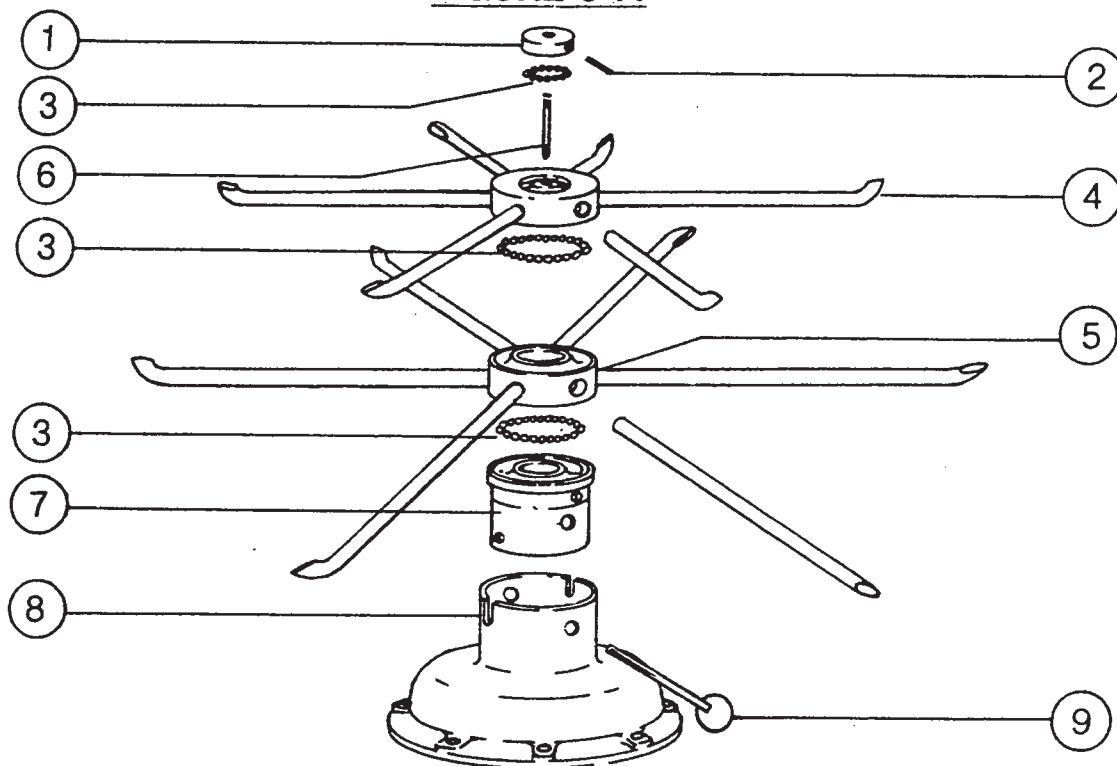


**LEFT SIDE VIEW**

ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0184101	_____	VACUUM BREAKER ASSEMBLY
2.	0052700	_____	DOOR HANDLE ASSEMBLY
3.	0052600	_____	FRONT DOOR, OUTER
4.	0054902	_____	KICK PANEL
5.		_____	INCOMING WATER CONNECTION
6.	0083400	_____	ADJUSTING FEET
7.	0108100	_____	PUMP & MOTOR ASSEMBLY (110V, 60 cycle)
8.		_____	DRAIN — GRAVITY FEED
9.	0142400	_____	DRAIN SOLENOID VALVE (110V, used on 60 cycle machine)
10.	0004001	_____	SIDE FRAME AND BRACE, LEFT HAND
11.	0180900	_____	TRANSFORMER, 1 KVA, 440/110V

# CHAPTER 8 — ILLUSTRATED PARTS LIST

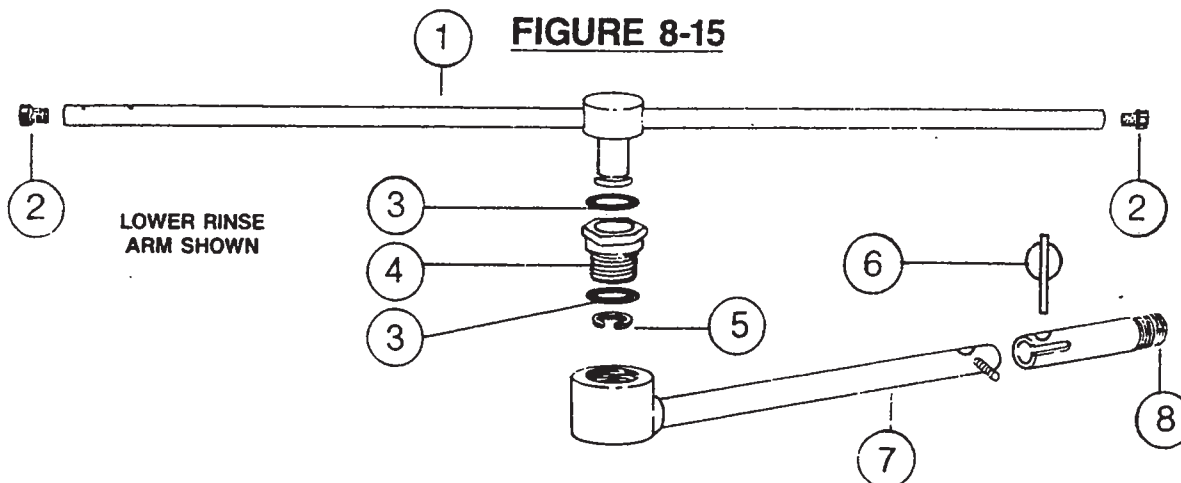
**FIGURE 8-14**



**WASH HEAD ASSEMBLY P/N 0188900**

ITEM	P/N	FSCM NO.	DESCRIPTION	ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0186500		WASH HEAD CAP WITH RACE	6.	0187500		WASH HEAD CENTER SHAFT
2.	0187000		WASH HEAD CAP SET SCREW	7.	0193601		WASH HEAD FIXED RACE
3.	0194000		WASH HEAD BEARING ¼" S/S	8.	0109600		UPPER PUMP HOUSING
4.	0189000		WASH HEAD SMALL MANIFOLD w/TUBES	9.	0188601		WASH HEAD ASSEMBLY RETAINING PIN w/RING
5.	0189500		WASH HEAD LARGE MANIFOLD w/TUBES				

**FIGURE 8-15**

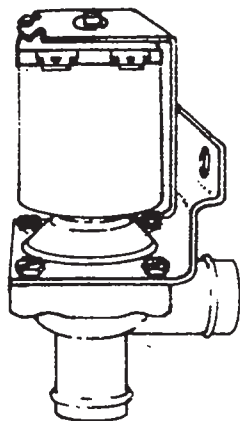


**RINSE HEAD ASSEMBLY P/N 0125200 — LOWER**

ITEM	P/N	FSCM NO.	DESCRIPTION	ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0125100		RINSE HEAD ARM ASSY. — UPPER	5.	0126500		RINSE HEAD SNAP RINGS S/S
2.	0126800		RINSE HEAD END PLUGS	6.	0137301		RINSE FEED PIPE LANYARD PIN
3.	0126000		RINSE HEAD NYLATRON WASHER	7.	0137200		RINSE FEED PIPE (LOWER)
4.	0125500		RINSE HEAD HEX BRUSHING S/S	8.	0137202		RINSE FEED PIPE NIPPLE

# CHAPTER 8 — ILLUSTRATED PARTS LIST

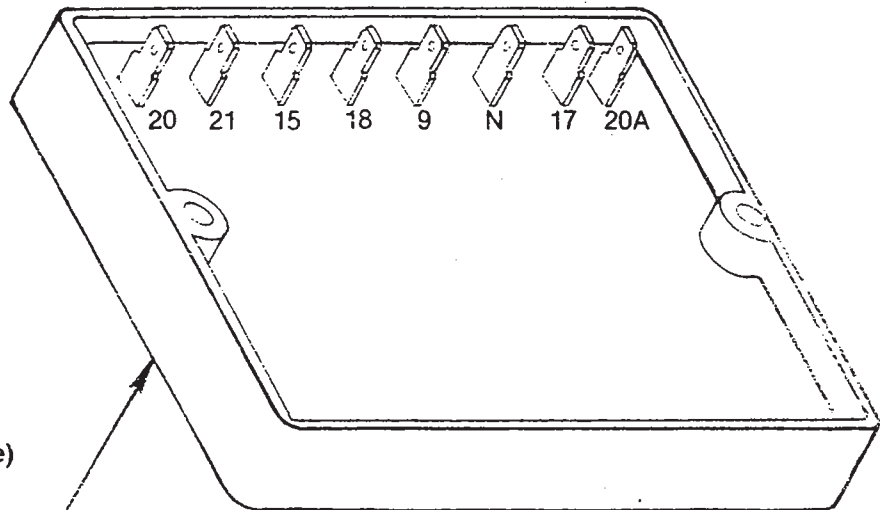
**FIGURE 8-16**



**DRAIN VALVE**

P/N 0142400 (110V, used on 60 cycle machine)

FSCM No. \_\_\_\_\_

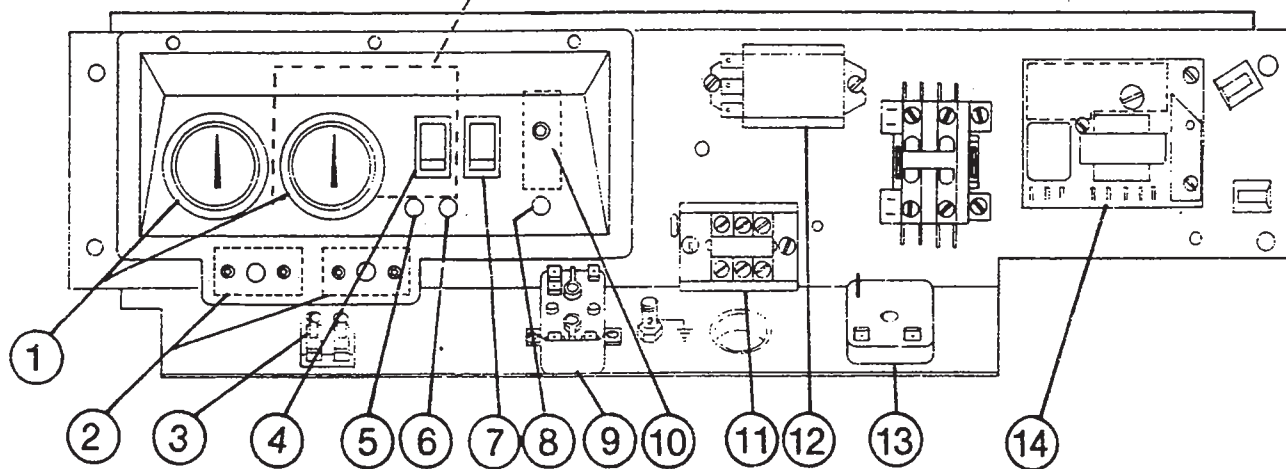


**CUTAWAY**

**TIMER**  
P/N 0174400

FSCM  
No. \_\_\_\_\_

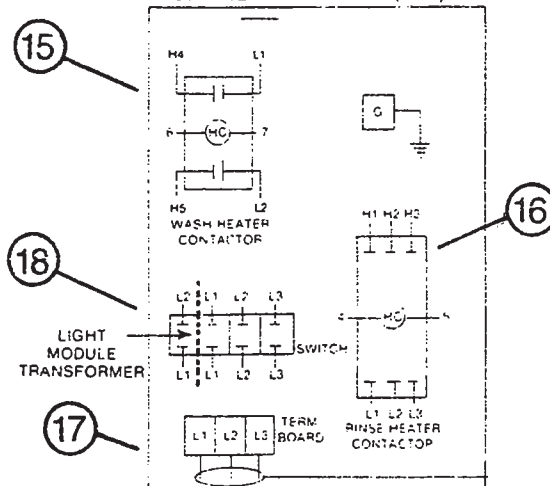
**FIGURE 8-17**



**PANEL**

ITEM	P/N	FSCM NO.	DESCRIPTION
1.	0169100	_____	THERMOMETERS, WASH AND RINSE
2.	0170018	_____	THERMOSTAT, RINSE
3.	0170023	_____	THERMOSTAT, WASH
4.	_____	_____	DETERGENT FUSE BLOCK
5.	0155600	_____	POWER SWITCH
6.	0083518	_____	POWER LIGHT
7.	0083507	_____	CYCLE LIGHT
8.	0159703	_____	MANUAL/AUTO SWITCH
9.	0083518	_____	HEATER RESET LIGHT
10.	0122701	_____	MOTOR RELAY (R-3)
11.	0169601	_____	THERMOSTATIC OVERLOAD
12.	0165600	_____	TERMINAL BOARD, INCOMING ELECTRICAL CONNECTION
13.	0124400	_____	DRAIN RELAY (R-4)
14.	0120701	_____	MOTOR STARTING RELAY
15.	0204400	_____	WATER LEVEL CONTROL
16.	0120500	_____	RELAY, 110V 2-POLE WASH HEAT
17.	0123600	_____	RELAY, 110V 3-POLE RINSE HEAT
18.	0165603	_____	TERMINAL BOARD, 3-POLE
	0167900	_____	TERMINAL BOARD BLOCKS W/SCREW TERMINALS
	0168000	_____	TERMINAL BOARD END BARRIER
	0158100	_____	TERMINAL BOARD CLIPS
	0168200	_____	TERMINAL BOARD TRACK, 3"
	0154900	_____	SWITCH CONTACT BLOCKS
	0155700	_____	SWITCH, MANUAL WASH (ROCKER-TYPE)
	0157800	_____	SWITCH, HEAT (ILLUMINATED ROCKER-TYPE)
	0158800	_____	SWITCH, START (ILLUMINATED ROCKER-TYPE)
	0159500	_____	SWITCH, ILLUMINATED POWER ON. 440V

**FRONT VIEW OF SIDE BOX (440V)**



# CHAPTER 9 — MANUFACTURER/VENDOR CROSS-REFERENCE LIST FOR MODEL 24BPNSU

	Mfgr's #	Description of Part	Vendor Name and Address	Vendor Part No.
1	0005700	Booster Tank (stripped) .....	*	
1	0051700	Door Latch and Switch Bracket .....	*	
1	0052300	Door Gasket .....	Sperry Rubber & Plastics Co., RR #2, Box 42, Brookville, IN 47012	BD4420
1	0052400	Door Gasket, Clamp Assembly .....	*	
1	0052600	Door, Front, Outer only (stripped) .....	*	
1	0052700	Door Handle .....	Southco, Inc., P.O. Box 7780-1316, Philadelphia, PA 19182	64-10-301-50
1	0053400	Drain Hose-Pump to Solenoid Valve, short .....	*	
4	0053500	Drain Hose Clamps .....	*	
1	0053600	Drain Hose-Solenoid Valve to Drain, long .....	*	
2	0054400	Door Spring .....	Southern Spring & Stamping, 401 Substation Rd., Venice, FL 33595	AD-3741-B
1	0054500	Enclosure Panel, righthand side .....	*	
1	0054600	Enclosure Panel, lefthand side .....	*	
1	0054700	Enclosure Panel, top .....	*	
1	0054902	Enclosure Panel, Lower Kickplate .....	*	
1	0056600	Heater Element, Ring-Style, 1000W, 440V .....	Tru-Heat Corp., 700 Grand St., Medina, OH 44256	C1014
1	0057900	Heater Element, Flange Type, 6.7KW, 440V .....	Watlow, P.O. Box 691088, Orlando, FL 32819-1088	7-29-20-1
2	0060001	Heater Element, Flange Type, Bus Bars .....	*	
1	0060002	Heater Element, Flange Type, Gasket .....	Watlow, P.O. Box 691088, Orlando, FL 32819-1088	AD-8565
1	0083507	Light, Indicator, Green .....	Wes-Garde Components Group, Inc., 3815 Industry Blvd., Lakeland, FL 33803	8041-X2/Potted
2	0083518	Light, Indicator, Red .....	Wes-Garde Components Group, Inc., 3815 Industry Blvd., Lakeland, FL 33803	8011-N4/Potted
1	0084300	Probe, Lundy, small .....	*	
1	0108100	Pump Assembly, complete with motor, 115V, 60 cycle .....	Gorman Rupp Industries, 180 Hines Ave., Bellville, OH 44813	14988-001
1	0108400	Pump Gasket .....	Tampa Rubber & Gasket Co., 215 N. 20th St., Tampa, FL 33605	AD-3737E
1	0108500	Pump Propeller Mounting Plate and Seal Assembly, kit .....	Gorman Rupp Industries, 180 Hines Ave., Bellville, OH 44813	02501-220
1	0109000	Pump Impeller, kit .....	Gorman Rupp Industries, 180 Hines Ave., Bellville, OH 44813	02500-359
1	0109501	Pump, Upper Housing, kit .....	Gorman Rupp Industries, 180 Hines Ave., Bellville, OH 44813	02501-206
4	0109700	Pump Fill Head Machine Screws, short .....	Spencer Products, 5144 Cypress St., Tampa, FL 33607	AD-7152
4	0109800	Pump Fill Head Machine Screws, long .....	Spencer Products, 5144 Cypress St., Tampa, FL 33607	AD-7152
1	0117500	Rack, square, 19 $\frac{3}{4}$ " x 19 $\frac{3}{4}$ " (cup, bowl, glass) .....	Raburn Division of Ecolab, 1201 Mark St., Elk Grove, IL 60007	6000M

\*Manufacturer is vendor/supplier of part.

# CHAPTER 9 — MANUFACTURER/VENDOR CROSS-REFERENCE LIST FOR MODEL 24BPNSU

	Mfgr's #	Description of Part	Vendor Name and Address	Vendor Part No.
2	0117800	Rack, square, 19 $\frac{3}{4}$ " x 19 $\frac{3}{4}$ " (dish-molded) .....	Raburn Division of Ecolab, 1201 Mark St., Elk Grove, IL 60007	5020
1	0123600	Relay, 110V, 3-pole, Rinse Heat Circuit, Allen Bradley .....	Honeywell, P.O. Box 101100, Atlanta, GA 30348	702A0D92
1	0120701	Relay, 110V, Motor Starting .....	MRC Technology, Inc.	30-0.50-115V-UL
2	0122701	Relay, Motor .....	White-Rogers Division, 9797 Reavis Rd., St. Louis, MO 63123	184-20203-302
	0124400	Relay, Drain, 3PDT .....	Electronic Precepts of Florida, 7401 114th Ave. N., #502A, Largo, FL 34643	RM705-615
1	0125100	Rinse Head Assembly, upper .....		
1	0125200	Rinse Head Assembly, lower .....		
2	0126800	Rinse Head End Plug, knurled .....		
2	0125500	Rinse Head, Hex Bushing .....		
2	0126000	Rinse Head, Nylatron Washer .....		
2	0126500	Rinse Head, Snap Ring, s/s .....	Dixie Bearings, Inc., 626 13th St., Tampa, FL 33612	5103-56H
1	0131000	Rinse Head Brush, Tube Cleaning .....	Zimmerman Brush Works, 900-901 W. Lake St., Chicago, IL 60607	4-25-97
1	0137301	Rinse Feed Pipe Lanyard Pin .....		
1	0142000	Solenoid Valve $\frac{1}{2}$ ", JE, 110V .....	Jakes-Evans Controls, Division Parker Hannifin Corp., P.O. Box 130, Madison, MS 39110	70563A73099
1	0142400	Drain Valve, Dole $\frac{1}{2}$ ", 110V (Valve only) .....	Eaton Corp., P.O. Box 1018, Beloit, WI 53511	K29312
1	0143600	Solenoid Valve Coil, 110V, JE .....		
	0145000	Solenoid Valve Diaphragm Cartridge and "O" Ring, JE .....	Jakes-Evans Controls, Division Parker Hannifin Corp., P.O. Box 130, Madison, MS 39110	76610
1	0147500	Solenoid Valve "O" Ring, JE .....	Jakes-Evans Controls, Division Parker Hannifin Corp., P.O. Box 130, Madison, MS 39110	P45-17
1	0148600	Solenoid Valve, Plunger Assembly, JE .....	Jakes-Evans Controls, Division Parker Hannifin Corp., P.O. Box 130, Madison, MS 39110	7018135
1	0149500	Solenoid Valve, Strainer Screen, JE .....	Jakes-Evans Controls, Division Parker Hannifin Corp., P.O. Box 130, Madison, MS 39110	J-4
	0153100	Strainer, Pan-Type .....		
	0155600	Switch, On/Fill, Off, Drain .....	Wes-Garde Components Group, Inc., 3815 Industry Blvd., Lakeland, FL 33803	TIGM5B-6S-BL-W31
1	0164000	Switch, Door, SPDT .....	Reptron Electronics, Inc., 15420 Racetrack Rd., Tampa, FL 33626	E72-40H
1	0159700	Switch, Manual Wash .....	Wes-Garde Components Group, Inc., 3815 Industry Blvd., Lakeland, FL 33803	AD-9732
	0165600	Terminal Board, 3-pole .....	AA Electric, 2011 S. Combee Dr., Lakeland, FL 33801	3PSWTC
1	0169100	Thermometer, 36" Cap., Rinse .....	Weiss Instruments, Inc., 85 Bell St., West Babylon, NY 11704	20UB4
1	0169601	Thermostatic Overload, Heater .....	Hamilton Standard Control, 501 Archdale Dr., Charlotte, NC 28217	103R-7007

\*Manufacturer is vendor/supplier of part.

# CHAPTER 9 — MANUFACTURER/VENDOR CROSS-REFERENCE LIST FOR MODEL 24BPNSU

	Mfgr's #	Description of Part	Vendor Name and Address	Vendor Part No.
1	0170018	Thermostat, Rinse, 180°, fixed .....	Ranco Controls Div., P.O. Box B, Columbus, OH 43265	C125241
1	0170023	Thermostat, Wash, 150°, fixed .....	Ranco Controls Div., P.O. Box B, Columbus, OH 43265	C125236
1	0174400	Timer, Solid State .....	Polytron Corp., 2445 DeCamp Ave., Elkhart, IN 46517	TG5-24X1489B
1	0184101	Vacuum Breaker, 1/2" Conbraco .....	Conbraco Industries, Inc., c/o Marsh & Moore, P.O. Box 17068, Jacksonville, FL 32245	38-103-01
1	0184200	Vacuum Breaker Repair Kit, 1/2" Conbraco .....	Conbraco Industries, Inc., c/o Marsh & Moore, P.O. Box 17068, Jacksonville, FL 32245	38-00301
1	0186500	Wash Head Cap w/Race .....	*	
1	0187000	Wash Head Cap Set Screw .....	*	
1	0187500	Wash Head Center Shaft .....	*	
1	0188600	Wash Head Holding Pin .....	*	
1	0188601	Wash Head, Disconnect Pin .....	*	
1	0188900	Wash Head Assembly, complete .....	*	
1	0189000	Wash Head, Small Manifold w/Tubes ..	*	
1	0189500	Wash Head, Large Manifold w/Tubes ..	*	
2	0193601	Wash Head Fixed Race .....	*	
57	0194000	Wash Head Bearings, 1/4" s/s .....	Motion Industries, Inc., 2605 N. 43rd St., Tampa, FL 33605	302SS Grade 100
1	0204400	Water Level Control, 110V, w/25-Second Time Delay .....	SSAC, Inc., P.O. Box 1000, 8242 Loop Rd., Baldwinsville, NY 13027-0100	LLC14A25AX
1	0180900	Transformer 1KVA, 440/110 .....	Graybar Electric Co., 801 N. Rome Ave., Tampa, FL 33606	9070 E071
1	0159500	Switch, Power Illuminized .....	Graybar Electric Co., 801 N. Rome Ave., Tampa, FL 33606	K11J5R W/KM-5/9001

\*Manufacturer is vendor/supplier of part







**NAVSEA (USER) TECHNICAL MANUAL DEFICIENCY/EVALUATION REPORT (TMDER)**  
**(NAVSEA S0005-AA-GYD-030/TMMP & NAVSEAINST 4160.3)**

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4 REV. DATE OR TM CH. DATE		5. SYSTEM/EQUIPMENT			6 IDENTIFICATION NOMENCLATURE (MK/MOD/AN)		
7. USER'S EVALUATION OF MANUAL (Check Appropriate blocks)							
<input type="checkbox"/>	A. EXCEL- LENT	<input type="checkbox"/>	B. GOOD	<input type="checkbox"/>	C. FAIR	<input type="checkbox"/>	D. POOR
<input type="checkbox"/>	E. COM- PLETE	<input type="checkbox"/>	F. INCOM- PLETE				
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PAGE NO. A.	PARA- GRAPH B.	LINE NO. C.	FIG NO. D.	TABLE E	E. RECOMMENDED CHANGES AND REASONS		
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13. SIGNATURE OF WORK CENTER HEAD				14. SIGNATURE OF DEPARTMENT OFFICER		15. AUTOVON/COMM. NO.	
16. SHIP HULL NO. AND/OR STATION ADDRESS (DO NOT ABBREVIATE)							
17. THIS SPACE ONLY FOR NSDSA							
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7. USER'S EVALUATION OF MANUAL (Check Appropriate blocks)																															
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## ORDERING REPLACEMENT WIRE

### ORDERING REPLACEMENT WIRE FOR YOUR DISHMACHINE

Jackson dishmachines have several color and gauges of wire used in them and it may become necessary to replace these wires. Wire may be ordered from Jackson MSC Inc., but please note that it is only available in feet. Ensure that you order the correct color and gauge.

#### **BLACK WIRE:**

6 Gauge	6145-002-15-91
8 Gauge	6145-104-43-00
10 Gauge	6145-104-16-00
12 Gauge	6145-112-01-00
14 Gauge	6145-104-09-00
18 Gauge	6145-104-01-97
18 Gauge with Orange Stripes	6145-011-35-66
18 Gauge with White Stripes	6145-011-35-65
18 Gauge with Yellow Stripes	6145-011-35-64

#### **BLUE WIRE:**

6 Gauge	6145-002-15-93
8 Gauge	6145-104-44-00
10 Gauge	6145-104-42-00
14 Gauge	6145-104-04-00
18 Gauge	6145-104-35-00
18 Gauge with Black Stripes	6145-011-46-35
18 Gauge with Red Stripes	6145-011-46-37
18 Gauge with White Stripes	6145-011-46-36
18 Gauge with Yellow Stripes	6145-011-46-38
20 Gauge	6145-104-06-97
20 Gauge with Black Stripes	6145-104-17-97
20 Gauge with White Stripes	6145-104-13-97

#### **GREEN WIRE:**

8 Gauge	6145-002-15-94
14 Gauge	6145-104-03-00
18 Gauge	6145-104-32-00
18 Gauge with Yellow Stripes	6145-001-44-96
20 Gauge	6145-104-05-97
20 Gauge with Black Stripes	6145-011-59-57
20 Gauge with Yellow Stripes	6145-104-11-97

#### **GREY WIRE:**

18 Gauge	6145-104-36-00
18 Gauge with Black Stripes	6145-011-81-71
18 Gauge with Blue Stripes	6145-011-81-72
18 Gauge with Red Stripes	6145-011-46-41
18 Gauge with White Stripes	6145-011-35-60
18 Gauge with Yellow Stripes	6145-011-46-42
20 Gauge	6145-104-03-97

#### **RED WIRE:**

6 Gauge	6145-002-15-92
8 Gauge	6145-104-45-00
10 Gauge	6145-104-08-00
14 Gauge	6145-104-05-00
18 Gauge	6145-104-37-00
18 Gauge with Black Stripes	6145-011-59-56
18 Gauge with Blue Stripes	6145-011-81-74
18 Gauge with White Stripes	6145-011-81-73
18 Gauge with Yellow Stripes	6145-011-81-75
20 Gauge	6145-104-02-97

#### **WHITE WIRE:**

10 Gauge	6145-104-19-00
14 Gauge	6145-104-10-00
18 Gauge	6145-104-39-00
18 Gauge with Black Stripes	6145-011-35-70
18 Gauge with Blue Stripes	6145-011-46-40
18 Gauge with Green Stripes	6145-011-35-69
18 Gauge with Grey Stripes	6145-002-20-18
18 Gauge with Red Stripes	6145-011-35-67
18 Gauge with Yellow Stripes	6145-011-35-68
20 Gauge	6145-104-04-97
20 Gauge with Orange & Yellow Stripes	6145-104-16-97
20 Gauge with Yellow Stripes	6145-104-15-97

#### **YELLOW WIRE:**

18 Gauge	6145-104-33-00
18 Gauge with Black Stripes	6145-011-81-68
18 Gauge with Blue Stripes	6145-011-81-70
18 Gauge with Red Stripes	6145-011-81-69
20 Gauge	6145-104-07-97



## ORDERING REPLACEMENT WIRE (CONTINUED)/CONDUIT & FITTINGS

### MISCELLANEOUS WIRE:

Brown (18 Gauge)	6145-104-20-00
Brown (20 Gauge)	6145-104-08-97
Orange (18 Gauge)	6145-104-34-00
Orange with Black Stripes (18 Gauge)	6145-011-35-62
Orange with Blue Stripes (18 Gauge)	6145-011-46-39
Orange with White Stripes (18 Gauge)	6145-011-35-63
Orange with Yellow Stripes (18 Gauge)	6145-011-35-61
Orange (20 Gauge)	6145-104-10-97
Pink (18 Gauge)	6145-011-82-69
Purple (18 Gauge)	6145-104-31-00
Violet (20 Gauge)	6145-104-09-97
Plug, GFI	6145-001-97-90
Cable, 16 Gauge, 3 Wire Romex	6145-001-98-29
Cord, Hubble Plug MC	6145-011-47-23
Cord, S-J	6145-011-49-02
Cord, Power	6145-011-70-28
Cord, 115V Power	6145-309-02-00
Cord, 125V Power, 96 " Long	6145-309-04-00

### CONDUIT AND RELATED FITTINGS

Jackson dishmachines come with a wide variety of conduit and fittings for use in routing the wires of the machine. The list below provides for most of stock of such items. When ordering, remember that Jackson does not offer pre-cut sections of conduit for your machine, instead it is sold by the foot. Please take into account the slack that will be necessary once installing the new conduit to ensure that it fits correctly. It is recommended that you order at least 6" more conduit than you require to ensure that you have enough for trimming.

### CONDUIT:

Conduit, 1/2", Liquidtite	5975-101-25-00
Conduit, 1/2", Non-Metallic	5975-111-46-57
Conduit, 1/2", PVC	5975-105-04-00
Conduit, 1/2", Sealtite	5975-105-01-00
Conduit, 1/2", Xtraflex	5975-105-06-44
Conduit, 3/8", Liquidtite	5975-105-02-00
Conduit, 3/4", Cole-Flex	5975-105-05-00
Conduit, 3/4", Liquidtite	5975-105-03-00
Conduit, 3/4", Non-Metallic	5975-011-47-71
Conduit, 3/4" Xtraflex	5975-105-07-44
Conduit, 1", Carlon	5975-011-68-42

### CONDUIT FITTINGS:

Elbow, Cole-Flex, 1/2", 90 Degree	5975-205-40-00
Elbow, Xtraflex, 1/2", 90 Degree	5975-205-44-44
Elbow, Xtraflex, 3/4", 90 Degree	5975-205-45-44
Fitting, 1/2" Straight	5975-011-45-13
Fitting, 1/2", Straight, Zinc Plated	5975-111-89-89
Fitting, 1/2", 45 Degree	5975-011-45-23
Fitting, 1/2", 45 Degree, Zinc Plated	5975-111-89-86
Fitting, 1/2", 90 Degree	5975-011-45-14
Fitting, 1/2", 90 Degree, Zinc Plated	5975-111-89-88
Fitting, 3/4", Straight	5975-011-47-72
Fitting, 3/4", 45 Degree	5975-011-47-74
Fitting, 3/4", 90 Degree	5975-011-47-73
Fitting, 1", Straight	5975-011-70-75

Fitting, 1", 90 Degree	5975-011-68-43
Fitting, Cole-Flex, 1/2" Straight	5975-205-03-00
Fitting, Cole-Flex, 3/4" Straight	5975-205-41-00
Fitting, Cole-Flex, 3/4", 90 Degree	5975-204-42-00
Fitting, Liquidtite, .231 ID/.394 OD	5975-011-49-03
Fitting, Liquidtite, .25 ID/.546 OD	5975-011-65-51
Fitting, Liquidtite, .27 ID/.48 OD	5975-011-59-50
Fitting, Liquidtite, 1/2", 90 Degree	5975-111-01-00
Fitting, Liquidtite, 3/8", Straight	5975-205-03-82
Fitting, Liquidtite, 3/8", 90 Degree	5975-205-02-82
Fitting, Liquidtite, 3/4", Straight	5975-205-15-02
Fitting, Liquidtite, 3/4", 45 Degree	5975-205-01-82
Fitting, Liquidtite, 3/4", 90 Degree	5975-205-07-82
Fitting, Xtraflex, 1/2", Straight	5975-205-47-44
Fitting, Xtraflex, 3/4", Straight	5975-205-46-44
Nut, 1-1/4"	5975-011-42-54



## ORDERING REPLACEMENT FASTENERS

Dishmachines come with a variety of fasteners used to hold them together. On the following pages will be comprehensive list of all of the fasteners you may order. Jackson reserves the right to require minimum quantities to be ordered.

### **SCREWS:**

Screw, 1/4"-20 x 1/4", Set	5305-002-10-14
Screw, 1/4"-20 x 1/2", Phillips Truss Head	5305-174-03-00
Screw, 1/4"-20 x 1/2", Set Screw	5305-011-71-51
Screw, 1/4"-20 x 1/2", Slotted Truss Head	5305-002-22-81
Screw, 1/4"-20 x 1/2", Thumb	5305-011-38-62
Screw, 1/4"-20 x 1/2", with Rubber Washer	5305-974-01-00
Screw, 1/4"-20 x 5/8", 80 Deg CSink	5305-002-20-30
Screw, 1/4"-20 x 5/8", Hex Head	5305-274-24-00
Screw, 1/4"-20 x 5/8", Phillips Truss Head	5305-174-04-00
Screw, 1/4"-20 x 1-1/8", Hex Head	5305-274-21-00
Screw, 1/4"-20 x 1-1/4", Flat Head	5305-174-19-00
Screw, 1/4"-20 x 1-3/8", Hex Head	5305-274-19-00
Screw, 1/4"-20 x 1-1/2", Flat Head	5305-174-11-00
Screw, 1/4"-20 x 1-1/2", Hex Head	5305-274-23-00
Screw, 1/4"-20 x 1-1/2", Phillips Head	5305-011-44-50
Screw, 1/4"-20 x 1-1/2", Slotted Truss Hd	5305-002-22-82
Screw, 1/4"-20 x 1-3/4", Hex Head	5305-274-10-00
Screw, 1/4"-20 x 3-3/4", Hex Head	5305-011-93-68
Screw, 5/16"-18 x 1/2", Hex Head	5306-011-88-67
Screw, 5/16"-18 x 1-1/4", Flat Head	5305-011-83-49
Screw, 3/8"-16 x 1", Socket Head	5305-356-04-00
Screw, 3/8"-16 x 1-1/4", Hex Head Plated	5305-256-04-00
Screw, 3/8"-16 x 2", Cap	5305-011-74-98
Screw, 4-40 x 1/4", Phillips Pan Head	5305-011-36-92
Screw, 4-40 x 3/8", Phillips Truss Head	5305-011-59-70
Screw, 4-40 x 1/2" Phillips Pan Head	5305-011-38-19
Screw, 4-40 x 5/8" Phillips Truss Head	5305-011-49-70
Screw, 4-40 x 3/4", Phillips Pan Head	5305-011-59-64
Screw, 4-40 x 1", Slotted Pan Head	5305-179-01-00
Screw, 6-32 x 1/4", Flat Head	5305-171-01-00
Screw, 6-32 x 1/4", Round Head	5305-151-02-00
Screw, 6-32 x 1/2", Phillips Head	5305-171-15-00
Screw, 6-32 x 1/2", Phillips Truss Head	5305-011-39-34
Screw, 6-32 x 3/8", Phillips Head	5305-171-02-00
Screw, 6-32 x 3/8", Phillips Round Head	5305-171-07-00
Screw, 6-32 x 5/8", Phillips Round Head	5305-011-39-85
Screw, 6-32 x 3/4", Round Head	5305-171-03-00
Screw, 6-32 x 3/4", Phillips Pan Head	5305-011-37-05
Screw, 6-32 x 7/8", Phillips Round Head	5305-171-10-00
Screw, 8-32 x 1/4", Phillips Pan Head	5305-172-09-00
Screw, 8-32 x 1/4", Slotted Round Head	5305-172-01-00
Screw, 8-32 x 3/8", Phillips Flat Head	5305-776-03-00
Screw, 8-32 x 3/8", Phillips Flat Head	5305-011-37-07
Screw, 8-32 x 3/8", Round Head	5305-172-02-00
Screw, 8-32 x 1/2", Hex Head	5305-002-02-87
Screw, 8-32 x 1/2", Phillips Flat Head	5305-011-37-06
Screw, 8-32 x 3/4", Phillips Round Head	5305-172-06-00
Screw, 10-24 x 3/8", Flat Head Undercut	5305-773-02-00
Screw, 10-24 x 3/8", Phillips Truss Head	5305-173-03-00
Screw, 10-24 x 1/2", Phillips Truss Head	5305-173-18-00
Screw, 10-24 x 1/2", Set	5305-473-02-00
Screw, 10-24 x 5/8", Hex Head	5305-011-40-89
Screw, 10-24 x 3/4", Hex Head	5305-273-05-00
Screw, 10-24 x 2-1/4", Hex Head	5305-011-38-10
Screw, 10-32 x 1/4", Round Head	5305-173-01-00
Screw, 10-32 x 3/8", Phillips Pan Head	5305-173-26-00
Screw, 10-32 x 3/8", Phillips Truss Head	5305-173-12-00
Screw, 10-32 x 3/8", Round Head, Slotted	5305-173-02-00

Screw, 10-32 x 1/2", Phillips Flat Head	5305-011-44-51
Screw, 10-32 x 1/2", Phillips Pan Head	5305-011-44-52
Screw, 10-32 x 1/2", Phillips Truss Head	5305-011-39-36
Screw, 10-32 x 1/2", Self Tapping	5305-011-62-69
Screw, 10-32 x 1/2", Slotted Truss	5305-173-04-00
Screw, 10-32 x 5/8", Fillister Head	5305-973-02-00
Screw, 10-32 x 3/4", Shoulder, .25 Shoulder	5305-011-86-65
Screw, 10-32 x 3/4", Phillips Truss Head	5305-011-62-17
Screw, 10-32 x 3/4", Phillips Truss Head	5305-011-49-33
Screw, 10-32 x 7/8", Fillister Head	5305-973-04-00
Screw, 10-32 x 7/8", Hex Head	5305-279-01-00
Screw, 10-32 x 1", Phillips Pan Head	5305-002-19-42
Screw, 10-32 x 1-1/8" Fillister Head	5305-973-03-00
Screw, 10-32 x 1-1/4", Phillips Truss Head	5305-011-66-03
Screw, 10-32 x 1-1/4", Socket Head	5305-356-16-00
Screw, 10-32 x 1-1/2", Fillister Head	5305-973-01-00
Screw, 10-32 x 1-3/4", Phillips Pan Head	5305-011-62-67
Screw, 10-32 x 1-3/4", Self Tapping	5305-011-59-92

### **BOLTS:**

Bolt, 1/4"-20 x 3/8", Hex Head	5305-274-20-00
Bolt, 1/4"-20 x 1/2", Hex Head	5305-274-02-00
Bolt, 1/4"-20 x 3/4", Hex Head	5305-274-04-00
Bolt, 1/4"-20 x 7/8", Hex Head	5305-274-05-00
Bolt, 1/4"-20 x 1", Hex Head	5305-254-06-00
Bolt, 1/4"-20 x 1-1/4", Hex Head	5305-274-22-00
Bolt, 1/4"-20 x 2", Hex Head	5306-011-84-72
Bolt, 1/4"-20 x 2-1/4", Hex Head	5305-011-30-50
Bolt, 1/4"-20 x 2-1/2", Hex Head	5306-011-83-52
Bolt, 1/4"-20 x 2-3/4", Hex Head	5306-011-46-62
Bolt, 1/4"-20 x 3-1/4", Hex Head	5306-002-05-55
Bolt, 5/16"-18 x 5/8", Hex Head	5305-275-09-00
Bolt, 5/16"-18 x 3/4", Hex Head	5305-275-04-00
Bolt, 5/16"-18 x 1", Hex Head	5305-275-06-00
Bolt, 5/16"-18 x 1-1/4", Hex Head	5305-275-10-00
Bolt, 3/8"-16 x 3/4", Hex Head	5306-011-71-60
Bolt, 3/8"-16 x 7/8", Hex Head	5306-011-36-95
Bolt, 3/8"-16 x 1", Hex Head	5305-276-03-00
Bolt, 3/8"-16 x 1", Hex Head, Plated	5305-256-03-00
Bolt, 3/8"-16 x 1-1/4", Hex Head	5305-276-10-00
Bolt, 3/8"-16 x 1-3/4", Hex Head	5306-011-36-94
Bolt, 3/8"-16 x 2-1/4", Hex Head	5306-011-95-12
Bolt, 3/8"-16 x 2-3/4", U-Bolt	5306-011-51-34
Bolt, 3/8"-16 x 4", Hex Head	5306-956-02-00
Bolt, 1/2"-13 x 1-3/4"	5305-011-71-94
Bolt, 10-24 x 3/8", Hex Head	5306-011-63-29
Bolt, 10-32 x 3/8"	5306-011-62-45

## ORDERING REPLACEMENT FASTENERS (CONTINUED)

### LOCKWASHERS:

Lockwasher, 1/4", Split	5311-274-01-00
Lockwasher, 3/8", Split	5311-276-01-00
Lockwasher, 3/8", Split	5311-256-01-00
Lockwasher, 5/8"	5311-278-02-00
Lockwasher, 5/16", Split	5311-275-01-00
Lockwasher, 5/16", Split, Cad Plated	5311-255-01-00
Lockwasher, #4, External Tooth	5311-011-59-70
Lockwasher, #6 External Tooth	5311-271-02-00
Lockwasher, #8	5311-272-02-00
Lockwasher, #8, External Tooth	5311-272-01-00
Lockwasher, #8, Internal Tooth	5311-272-03-00
Lockwasher, #10, External Tooth	5311-273-02-00
Lockwasher, #10, Internal Tooth	5311-273-03-00
Lockwasher, #10, Split	5311-273-01-00

### FLAT WASHERS:

Washer, Flat, Brass, 3/32" ID	5311-129-08-00
Washer, Flat, Brass, 1/4" ID	5311-129-09-00
Washer, 1/4" ID x 3/4" OD	5311-011-76-30
Washer, Flat, 5/16" ID	5311-175-01-00
Washer, Flat, Brass, 5/16", Cadplated	5311-156-01-00
Washer, Flat, S/S, 3/8" ID	5311-176-01-00
Washer, 3/8" ID x 9/16" OD	5311-011-71-49
Washer, 1/2" ID x 1" OD x 1/8" Thick	5311-011-71-48
Washer, 1/2" ID x 1-5/16" OD, Cadplated	5311-157-01-00
Washer, Nylon, .51" ID x .76" OD	5311-011-62-65
Washer, Flat, S/S, 11/16 " ID x 1/2" OD	5311-178-01-00
Washer, 7/8" ID x 1-1/2" OD	5311-011-35-37
Washer, Flat, 1/4" ID	5311-174-01-00
Washer, Flat, #10	5311-173-02-00

### LOCKNUTS:

Locknut, 1/4"-20 with Nylon, High Profile	5310-374-01-00
Locknut, 1/4"-20 with Nylon, Low Profile	5310-374-02-00
Locknut, 5/16"-24 with Nylon, High Profile	5310-375-01-00
Locknut, 5/16"-24 with Nylon, Low Profile	5310-374-03-00
Locknut, 3/8"-16, with Nylon, High Profile	5310-011-72-55
Locknut, 3/8"-16, with Nylon, Low Profile	5310-376-02-00
Locknut, 4-40, with Nylon	5310-279-06-00
Locknut, 6-32, with Nylon	5310-373-03-00
Locknut, 10-24, with Nylon	5310-373-01-00
Locknut, 10-32, with Nylon	5310-373-02-00

### HEX NUTS:

Nut, Hex, 1/4"-20	5310-274-01-00
Nut, Hex, 1/4"-20, Cad Plated	5310-254-01-00
Nut, Hex, 5/16"-18	5310-275-01-00
Nut, Hex, 5/16"-18, Cad Plated	5310-255-01-00
Nut, Hex, 3/8"-16	5310-276-02-00
Nut, Hex, 3/8"-16, Cad Plated	5310-256-02-00
Nut, Hex, 1/2"-13	5310-011-72-58
Nut, Hex, 6-32	5310-271-01-00
Nut, Hex, 8-32	5310-272-01-00
Nut, Hex, 10-24	5310-273-02-00
Nut, Hex, 10-32	5310-273-01-00

### MISCELLANEOUS NUTS:

Nut, 1/4"-20, Acorn	5310-174-01-00
Nut, 1/4"-20, Hex, Serrated	5310-011-66-49
Nut, 1/4"-20, Wing, Nylon	5310-994-01-00
Nut, 5/16"-18, Keps	5310-955-01-00
Nut, 5/8"-18, Brass	5310-228-01-11
Nut, 6-32, Keps	5310-002-24-29
Nut, 10-24, Hex Cap	5310-173-01-00
Nut, 10-24, Wing, Nylon	5310-993-01-00

## ORDERING REPLACEMENT HOSE & TUBING

Tubing and hose are ordered by the foot. Jackson MSC Inc. reserves the right to require minimum ordering quantities for the items below.

### HOSE:

Hose, 3/16" ID x 5/16" OD	4720-601-40-00
Hose, 1/4" ID x .062" Wall, Excelon	4720-111-59-46
Hose, 1/4" ID x 1/2" OD, 300-350 PSI	4720-011-95-43
Hose, 3/8" ID x 5/8" OD, 300 PSI	4720-002-31-63
Hose, 3/8" ID x 5/8" OD, PVC	4720-011-35-41
Hose, 3/8" ID x 3/4" OD, PVC	4720-111-35-41
Hose, 1/2" ID x 3/4" OD	4720-011-94-01
Hose, 1/2" ID, Reinforced	4720-011-63-06
Hose, 5/8" ID x 7/8" OD, PVC	4720-601-14-00
Hose, 3/4" ID x 1" OD	4720-011-94-10
Hose, 3/4" ID, Nylon Reinforced	4720-011-63-02
Hose, 1" ID x 1-1/4" OD, EPDM	4720-111-39-73
Hose, 1-1/4" ID x 1-1/2" OD, Reinforced	4720-601-42-00
Hose, 1-1/4" ID, Reinforced	4720-011-44-47
Hose, 1-1/2" ID, Clear Wire Reinforced	4720-111-34-60
Hose, 2" ID, Nylon Reinforced	4720-011-63-25
Hose, 2" ID, Reinforced Flex Drain	4720-011-63-04
Hose 2" ID x 3" OD, EPDM	4720-011-88-02

### TUBING:

Tubing, 1/8" OD, Paraflex	4720-111-58-09
Tubing, 3/16" ID x .54" OD, CPVC	4720-111-35-31
Tubing, 1/4" OD	4720-111-51-65
Tubing, 1/4" OD, Blue	4720-601-11-00
Tubing, 1/4" OD, Red	4720-601-12-00
Tubing, 1/4" OD, White	4720-601-13-00
Tubing, 1/4" OD, Paraflex	4720-111-51-70
Tubing, 1/4" ID x 3/8" OD, Tygon	4720-001-97-65
Tubing, 1/2" ID x 13/16" OD, Polypropylene	4720-601-24-00
Tubing, 5/16" x 7/16" OD, Clear	4720-111-35-34
Tubing, 5/16" ID x 1/2" OD, Flexible	4720-011-35-21
Tubing, 3/8" ID x 1/16" Wall, Clear	4720-601-22-00
Tubing, 3/8" OD, White Polypropylene	4720-011-50-49
Tubing, 5/8" ID with .125" Wall	4720-002-12-20
Tubing, 3/4" ID x 1/8" Wall, Polypropylene	4720-601-25-00
Tubing, 3/4" ID x 1-1/8" OD, Nylon	4720-001-84-01
Tubing, 1" Polybrade	4720-011-69-16
Tubing, 1" ID x 1-3/8" OD, Polypropylene	4720-601-23-00
Tubing, 1-1/2" Polybrade	4720-011-69-17

# JACKSON MAINTENANCE & REPAIR CENTERS (USA)

## ALABAMA

**Jones-McLeod Appliance**  
1616 7th Avenue North  
Birmingham, AL 35203  
(205) 251-0159  
(800) 821-1150  
(205) 322-1440 fax

**Jones-McLeod Appliance**  
854 Lakeside Drive  
Mobile, AL 36693  
(334) 666-7278  
(800) 237-9859  
(334) 661-0223 fax

## ALASKA

**Restaurant Appliance Service**  
7219 Roosevelt Way NE  
Seattle, WA 98115  
(206) 524-8200  
(800) 433-9390  
(206) 525-2890 fax

## ARIZONA

**GCS Service, Inc. #78**  
5052 South 40th Street  
Phoenix, AZ 85040  
(602) 474-4510  
(800) 510-3497  
(602) 470-4511 fax

**Authorized Commercial Food Equipment Service**  
4832 South 35th St.  
Phoenix, AZ 85040  
(602) 234-2443  
(800) 824-8875  
(602) 232-5862 fax

## ARKANSAS

**Bromely Parts & Service**  
10th & Ringo  
P.O. Box 1688  
Little Rock, AR 72202  
(501) 374-0281  
(800) 482-9269  
(501) 374-8352 fax

**Commercial Parts & Service**  
3717 Cherry Road  
Memphis, TN 38118  
(901) 366-4587  
(800) 262-9155  
(901) 366-4588 fax

## CALIFORNIA

**P & D Appliance**  
4220-C Roseville Road  
North Highlands, CA 95660  
(916) 974-2772  
(800) 824-7219  
(916) 974-2774

## CALIFORNIA (cont)

**P & D Appliance**  
100 South Linden Avenue  
S. San Francisco, CA 94080  
(650) 635-1900  
(800) 424-1414  
(650) 635-1919 fax

**Barkers Food Machinery Equipment**  
5367 Second Street  
Irwindale, CA 91706  
(626) 960-9390  
(800) 258-6999  
(626) 337-4541 fax

**GCS Service, Inc. #24**  
1100 East Pico Blvd  
Los Angeles, CA 90021  
(213) 683-2090  
(800) 327-1433  
(213) 683-2099 fax

**GCS Service, Inc. #24**  
650 S. Grand Avenue  
Suite 111  
Santa Ana, CA 92705  
(714) 542-1798  
(800) 540-0719  
(714) 542-4787 fax

**GCS Service, Inc. #52**  
360 Littlefield  
S. San Francisco, CA 94080  
(650) 635-0720  
(800) 969-4427  
(650) 871-4019 fax

**GCS Service, Inc. # 84**  
9030 Kenamar Drive  
Suite 313  
San Diego, CA 92121  
(858) 549-8411  
(800) 422-7278  
(858) 549-2323 fax

## COLORADO

**GCS Service, Inc. #60**  
4251 S. Natches Ct.  
Unit C  
Sheridan, Co 80110  
(303) 371-9054  
(800) 972-5314

**Metro Appliance Service**  
1640 South Broadway  
Denver, CO 80210  
(303) 778-1126  
(800) 525-3532  
(303) 778-0268 fax

## CONNECTICUT

**GCS Service, Inc. #06**  
302 Murphy Road  
Hartford, CT 06114  
(860) 549-5575  
(800) 423-1562  
(860) 527-6355 fax

## DELAWARE

**Food Service Equipment**  
2101 Parkway South  
Broomall, PA 19008  
(610) 356-6900  
(610) 356-2038 fax

**GCS Service, Inc. #44**  
817 N. Third Street  
P.O. Box 3564  
Philadelphia, PA 19123  
(215) 925-6217  
(800) 441-9115  
(215) 925-6208 fax

**Elmer Schultz Service**  
36 Belmont Ave.  
Wilmington, DE 19804  
(302) 655-8900  
(800) 225-0599  
(302) 656-3673 fax

**EMR Service Division**  
106 Williamsport Circle  
Salisbury, MD 21804  
(410) 543-8197  
(410) 543-4038 fax

## FLORIDA

**GCS Service, Inc. #15**  
3373 N. W. 168th Street  
Miami, FL 33056  
(305) 621-6666  
(800) 766-8966  
(305) 621-6656 fax

**Commercial Appliance Service**  
8416 Laurel Fair Circle  
Building 6, Suite 114  
Tampa, FL 33610  
(813) 663-0313  
(800) 282-4718  
(813) 663-0212 fax

**GCS Service, Inc. #14**  
3902 Corporex Park Drive  
Suite 350  
Tampa, FL 33619  
(813) 626-6044  
(800) 282-3008  
(813) 621-1174



# JACKSON MAINTENANCE & REPAIR CENTERS (USA)

## FLORIDA (cont)

**GCS Service, Inc. # 13**  
4305 Vineland Road  
Suite G-12  
Orlando, FL 32811  
(407) 841-2551  
(800) 338-7322  
(407) 423-8425 fax

**Jones-McLeod Appliance**  
854 Lakeside Drive  
Mobile, AL 36693  
(334) 666-7278  
(800) 237-9859  
(334) 661-0223 fax

## GEORGIA

**GCS Service, Inc. #16**  
3127 Presidential Dr.  
Atlanta, GA 30340  
(770) 452-7322  
(300) 334-3599  
(770) 452-7473 fax

**Southeastern  
Restaurant Service**  
2200 Norcross Pkwy,  
Suite 210  
Norcross, GA 30071  
(770) 446-6177  
(800) 235-6516  
(770) 446-3157 fax

**Whaley Foodservice Repairs**  
109-A Owens Industrial Drive  
Savannah, GA 31405  
(912) 447-0827  
(888) 765-0036  
(912) 447-0826 fax

## HAWAII

**Food Equipment Parts &  
Service Co.**  
300 Puuhale Road  
Honolulu, HI 96819  
(808) 847-4871  
(808) 842-1560 fax

## IDAHO

**Ron's Service**  
703 E. 44th Street, Suite 10  
Garden City, ID 83714  
(208) 375-4073  
(208) 375-4402 fax

**Restaurant Appliance Service**  
7219 Roosevelt Way Ne  
Seattle, WA 98115  
(206) 524-8200  
(800) 433-9390  
(206) 525-2890 fax

## ILLINOIS

**GCS Service Inc. #12**  
696 Larch Avenue  
Elmhurst, IL 60126  
(630) 941-7800  
(800) 942-9689  
(630) 941-6048 fax

**Cone's Repair Service**  
2408 40th Avenue  
Moline, IL 61265  
(309) 797-5323  
(800) 716-7070  
(309) 797-3631 fax

**Eichenauer Services, Inc.**  
130 S. Oakland Street  
Decatur, IL 62522  
(217) 429-4229  
(800) 252-5892  
(217) 429-0226 fax

**GCS Service, Inc. #80**  
9722 Reavis Park Drive  
St. Louis, MO 63123  
(314) 638-7444  
(800) 284-4427  
(314) 638-0135 fax

## INDIANA

**Commercial Parts and Service**  
5310 E. 25th Street  
Indianapolis, IN 46218  
(317) 545-9655  
(800) 727-8710  
(317) 549-6286 fax

## IOWA

**Goodwin-Tucker Group**  
3509 Delaware Avenue  
Des Moines, IA 50313  
(515) 262-9308  
(800) 372-6066  
(515) 262-2936 fax

**Cone's Repair Service**  
1056 27th Ave. SW  
Cedar Rapids, IA 52404  
(319) 365-3325  
(800) 747-3326  
(319) 365-0885 fax

## KANSAS

**GCS Service Inc. #82**  
6107 Connecticut  
Kansas City, MO 64120  
(816) 920-5999  
(800) 229-6477  
(816) 920-7387 fax

## KENTUCKY

**Certified Service Center**  
Ramco Business Park  
4283 Produce Road  
Louisville, Ky 40218  
(502) 964-7007  
(800) 637-6350  
(502) 964-7202 fax

**Commercial Parts & Service**  
4204 South Brook Street  
Louisville, KY 40214  
(502) 367-1788  
(800) 752-6160  
(502) 367-0400 fax

**Certified Service Center**  
1051 Goodwin Drive  
Lexington, KY 40505  
(606) 254-8854  
(800) 432-9269  
(606) 231-7781 fax

**Commercial Parts & Service**  
1002 Nandino Blvd.  
Lexington, KY 40511  
(606) 255-0746  
(800) 432-9260  
(606) 255-0748 fax

## LOUISIANA

**Bana Parts, Inc.**  
1501 Kueble Street  
Harahan, LA 70123  
(504) 734-0076  
(800) 325-7543  
(504) 734-8456 fax

**Bana Parts, Inc.**  
4028 Greenwood Road  
Shreveport, LA 71109  
(318) 631-6550  
(800) 832-6550  
(318) 636-5675 fax

## MAINE

**GCS Service, Inc. #09**  
180 Second Street  
Chelsea, MA 02150  
(617) 889-9393  
(800) 225-1155  
(617) 889-1222 fax

**Massachusetts Restaurant  
Supply**  
34 South Street  
Somerville, MA 02143  
(617) 868-1930  
(800) 338-6737  
(617) 868-5331 fax

# JACKSON MAINTENANCE & REPAIR CENTERS (USA)

## MARYLAND

**GCS Service, Inc. #07**  
2660 Pittman Drive  
Silver Spring, MD 20910  
(301) 585-7550 (DC)  
(410) 792-0388 (Balt)  
(800) 638-7278  
(301) 495-4410 fax

**EMR Service Division**  
700 East 25th Street  
Baltimore, MD 21218  
(410) 467-8080  
(800) 879-4994  
(410) 467-4191 fax

**EMR Service Division**  
106 Willamsport Circle  
Salisbury, MD 21804  
(410) 543-8197  
(888) 687-8080  
(410) 548-4038 fax

**EMR Service Division**  
2626 Pittman Drive  
Silver Spring, MD 20910  
(301) 588-8080  
(800) 348-2365  
(301) 588-6985 fax

## MASSACHUSETTS

**GCS Service, Inc. #09**  
180 Second Street  
Chelsea, MA 02150  
(617) 889-9393  
(800) 225-1155  
(617) 889-1222 fax

**Massachusetts Restaurant Supply**  
34 South Street  
Somerville, MA 02143  
(617) 868-1930  
(800) 338-6737  
(617) 868-5331 fax

**Ace Service Co.**  
95 Hampton Avenue  
Needham, MA 02494  
(781) 449-4220  
(800) 225-4510 MA & NH  
(781) 444-4789 fax

**GCS Service, Inc. #06**  
302 Murphy Road  
Hartford, CT 06114  
(860) 549-5575  
(800) 723-1562  
(860) 527-6355 fax

## MICHIGAN

**GCS Service, Inc. #20**  
31829 West Eight Mile Road  
Livonia, MI 48152  
(248) 426-9500  
(800) 772-2936  
(248) 426-7555 fax

**GCS Service, Inc. #21**  
3516 Roger B Chaffe SE  
Grand Rapids, MI 49548  
(248) 426-9500  
(800) 772-2936  
(248) 426-7555 fax

**Jackson Service**  
3980 Benstein Road  
Commerce Township, MI 48382  
(248) 363-4159  
(800) 332-4053  
(248) 363-5448 fax

## MINNESOTA

**GCS/Metro Service, Inc.**  
2857 Louisiana Avenue N.  
Minneapolis, MN 55427  
(612) 546-4221  
(800) 345-4221  
(612) 546-4286 fax

## MISSISSIPPI

**Commercial Parts & Service**  
5755 Gallant Drive  
Jackson, MS 39206  
(601) 956-7800  
(800) 274-5954  
(601) 956-1200 fax

**Commercial Parts & Service**  
3717 Cherry Road  
Memphis, TN 38118  
(901) 366-4587  
(800) 262-9155  
(901) 366-4588 fax

## MISSOURI

**GCS Service, Inc. #82**  
6107 Connecticut  
Kansas City, MO 64120  
(816) 920-5999  
(800) 229-6477  
(816) 920-7387 fax

**GCS Service, Inc. # 80**  
9722 Reavis Park Drive  
St. Louis, MO 63123  
(314) 638-7444  
(800) 284-4427  
(314) 638-0135 fax

## MISSOURI (cont)

**Kammerlin Parts & Service**  
2728 Locust Street  
St. Louis, MO 63103  
(314) 535-2222  
(314) 535-6205 fax

## MONTANA

**Restaurant Appliance Service**  
7219 Roosevelt Way NE  
Seattle, WA 98115  
(206) 524-8200  
(800) 433-9390  
(206) 525-2890 fax

## NEBRASKA

**Goodwin-Tucker Group**  
815 N. 19th Street  
Omaha, NE 68102  
(402) 345-7400  
(800) 228-0342  
(402) 346-6145 fax

## NEVADA

**GCS Service, Inc. #77**  
3585 East Patrick Lane  
Suite 1000  
Las Vegas, NV 89102  
(702) 450-3495  
(800) 500-9060  
(702) 450-3491 fax

**Burney's Commercial Service**  
4480 Aldevaran Avenue  
Las Vegas, NV 89103  
(702) 736-0006  
(702) 798-7531 fax

## NEW HAMPSHIRE

**GCS Service, Inc. #09**  
180 Second Street  
Chelsea, MA 02150  
(617) 889-9393  
(800) 225-1155  
(617) 889-1222 fax

**Massachusetts Restaurant Supply**  
34 South Street  
Somerville, MA 02143  
(617) 868-1930  
(800) 338-6737  
(617) 868-5331 fax

**Ace Service Co.**  
95 Hampton Avenue  
Needham, MA 02494  
(781) 449-4220  
(800) 225-4510 MA & NH  
(781) 444-4789 fax

# JACKSON MAINTENANCE & REPAIR CENTERS (USA)

## NEW JERSEY

**Jackson Faspray Service**  
155 Sargeant Avenue  
Clifton, NJ 07013  
(973) 471-8000  
(800) 356-6740  
(973) 471-1289 fax

**GCS Service, Inc. #44**  
817 N. Third Street  
Philadelphia, PA 19123  
(215) 925-6217  
(800) 441-9115  
(215) 925-6208 fax

**GCS Service, Inc. #02**  
1 Madison ST., Bldg. F  
E. Rutherford, NJ 07073  
(973) 614-0003  
(800) 399-8294  
(973) 614-0320 fax

**Food Service Equipment**  
2101 Parkway South  
Broomall, PA 19123  
(610) 356-6900  
(610) 356-2038 fax

## NEW MEXICO

**Stove Parts Supply Co.**  
2120 Solana Street  
Ft. Worth, TX 76117  
(817) 831-0381  
(800) 433-1804  
(817) 834-7754 fax

## NEW YORK

**GCS Service, Inc. #01**  
932 Grand Street  
Brooklyn, NY 11211  
(718) 486-5220  
(800) 969-4271  
(718) 486-6772 fax

**Duffy's Equipment Service**  
3138 Oneida Street  
Sauquoit, NY 13456  
(315) 737-9401  
(800) 443-8339  
(315) 737-7132 fax

**B.E.S.T., Inc.**  
3003 Genesee Street  
Buffalo, NY 14225  
(716) 893-6464  
(800) 338-5011  
(716) 893-6466 fax

## NEW YORK (cont)

**Appliance Installation & Service Corp.**  
1336 Main Street  
Buffalo, NY 14209  
(716) 884-7425  
(800) 722-1252  
(716) 884-0410 fax

**Northern Parts & Service**  
21 Northern Avenue  
Plattsburgh, NY 12903  
(518) 563-3200  
(800) 634-5005  
(800) 782-5424 fax

**Jackson Faspray Service**  
155 Sargeant Avenue  
Clifton, NJ 07013  
(973) 471-8000  
(800) 356-6740  
(973) 471-1289 fax

## NORTH CAROLINA

**Whaley Foodservice Repairs**  
8334-K Arrowridge Blvd.  
Charlotte, NC 28273  
(704) 529-6242  
(704) 529-1558 fax

**Whaley Foodservice Repairs**  
203-D Creek Ridge Road  
Greensboro, NC 27406  
(336) 333-2333  
(336) 333-2533 fax

**Whaley Foodservice Repairs**  
335-105 Sherwee Drive  
Raleigh, NC 27603  
(919) 779-2266  
(919) 779-2224 fax

**Whaley Foodservice Repairs**  
6418-101 Amsterdam Way  
Wilmington, NC 28405  
(910) 791-0000  
(910) 791-6662 fax

## NORTH DAKOTA

**GCS/Metro Service Inc.**  
2857 Louisiana Avenue N.  
Minneapolis, MN 55427  
(612) 546-4221  
(800) 345-4221  
(612) 546-4286 fax

## OHIO

**Certified Service Center**  
890 Redna Terrace  
Cincinnati, OH 45215  
(513) 772- 6600  
(800) 543-2060  
(513) 612-6600 fax

## OHIO (cont)

**Commercial Parts & Service of Columbus**  
1150 West Mound Street  
Columbus, OH 43223  
(614) 221-0057  
(800) 837-8327  
(614) 221-3622 fax

**GCS Service, Inc.**  
2830 Johnstown Rd.  
Columbus, OH 43219  
(614) 476-3225  
(800) 282-5406  
(614) 476-1196 fax

**Electrical Appliance Repair Service**  
5805 Valley Belt Road  
Cleveland, OH 44131  
(216) 459-8700  
(800) 621-8259  
(216) 459-8707 fax

## OKLAHOMA

**Krueger Inc.**  
100 NE 24th Street  
Oklahoma City, OK 73105  
(405) 528-8883  
(800) 522-8069  
(405) 528-5405 fax

**Hagar Restaurant Equipment**  
1229 W. Main Street  
Oklahoma City, OK 73106  
(405) 235-2184  
(800) 445-1791  
(405) 236-5592 fax

## OREGON

**Ron's Service**  
16364 SW 72nd Ave.  
Portland, OR 97224  
(503) 624-0890  
(800) 851-4118  
(503) 684-6107 fax

## PENNSYLVANIA

**GCS Service, Inc. #44**  
817 N. Third Street  
P.O. Box 3564  
Philadelphia, PA 19123  
(215) 925-6217  
(800) 441-9115  
(215) 925-6208 fax

**Elmer Schultz Service**  
540 North 3rd Street  
Philadelphia, PA 19123  
(215) 627-5400  
(215) 627-5408 fax

# JACKSON MAINTENANCE & REPAIR CENTERS (USA)

## PENNSYLVANIA (cont)

### **Food Service Equipment**

2101 Parkway South  
Broomall, PA 19008  
(610) 356-6900  
(610) 356-2038

### **A.I.S. Commercial Parts & Service**

1816 West 26th Street  
Erie, PA 16508  
(814) 456-3732  
(800) 332-3732  
(814) 452-4843 fax

### **GCS Service, Inc. #44**

4400 Lewis Road, Suite E  
Harrisburg, PA 17111  
(717) 564-3282  
(800) 367-3225  
(717) 564-9286 fax

### **K & D Parts & Service**

1833-41 N. Cameron Street  
Harrisburg, PA 17103  
(717) 236-9039  
(800) 932-0503  
(717) 238-4367 fax

### **AFS-Authorized Factory Service, Co.**

940 Flrst Avenue  
Coraopolis, PA 15108  
(412) 262-2330  
(800) 222-8767  
(412) 262-2245 fax

### **GCS Service, Inc. #48**

210 Vista park Drive  
Pittsburgh, PA 15205  
(412) 787-1970  
(800) 738-1221  
(412) 787-5005 fax

## RHODE ISLAND

### **GCS Service, Inc. #90**

1002 Waterman Ave.  
E. Providence, RI 02914  
(401) 434-6803  
(800) 462-6012  
(401) 438-9400 fax

## SOUTH CAROLINA

### **Whaley Foodservice Repairs**

I-26 & US1  
P.O. Box 4023  
West Columbia, SC 29170  
(803) 791-4420  
(800) 877-2662  
(803) 794-4630 fax

## SOUTH CAROLINA (cont)

### **Whaley Foodservice Repairs**

748 Congaree Road  
Greenville, SC 29607  
(864) 234-7011  
(800) 494-2539  
(864) 234-6662 fax

### **Whaley Foodservice Repairs**

1406-C Commerce Pl.  
Myrtle Beach, SC 29577  
(843) 626-1866  
(843) 626-2632 fax

### **Whaley Foodservice Repairs**

4740-A Franchise St.  
N. Charleston, SC 29418  
(843) 760-2110  
(843) 760-2255 fax

## SOUTH DAKOTA

### **Metro Commercial Service, Inc.**

2857 Louisiana Avenue N.  
Minneapolis, MN 55427  
(612) 546-4221  
(800) 345-4221  
(612) 546-4286 fax

## TENNESSEE

### **Commercial Parts & Service**

3717 Cherry Road  
Memphis, TN 38118  
(901) 366-4587  
(800) 262-9155  
(901) 366-4588 fax

### **Commercial Parts & Service**

748 Fesslers Lane  
Nashville, TN 37210  
(615) 244-8050  
(800) 831-7174  
(615) 244-8885 fax

### **Commercial Appliance Service**

919 8th Ave. South  
Nashville, TN 37203  
(615) 254-0906  
(800) 476-0906  
(615) 254-0919 fax

## TEXAS

### **GCS Service, Inc. #90**

10850 Sanden Drive  
Dallas, TX 75238-5325  
(972) 484-2954  
(800) 422-5026  
(972) 484-2531 fax

## TEXAS (cont)

### **Stove Parts Supply Co.**

2120 Solana Street  
Ft. Worth, TX 76117  
(817) 831-0381  
(800) 433-1804  
(817) 834-7754 fax

### **GCS Service, Inc. #88**

8150 Westpark  
Houston, TX 77081  
(713) 785-9187  
(800) 868-6957  
(713) 785-3979 fax

### **Armstrong Repair Center**

5110 Glenmont Dr.  
Houston, TX 77081  
(713) 666-7100  
(800) 392-5325  
(713) 661-0520 fax

### **Commercial Kitchen Repair**

1377 N. Brasos  
P.O. Box831128  
San Antonio, TX 78207  
(210) 735-2811  
(800) 292-2120  
(210) 735-7421 fax

## UTAH

### **Lamonica's Restaurant Equipment Service**

6182 S. Stratler Avenue  
Murray, UT 84107  
(801) 263-3221  
(800) 527-2561  
(801) 263-3229 fax

## VERMONT

### **Authorized Appliance Servicer of Vermont**

74 River Street  
Rutland, VT 05701  
(802) 775-5588  
(800) 874-1080  
(802) 775-9593 fax

### **Northern Parts & Service**

4874 S. Catherine Street  
Plattsburg, NY 12901  
(518) 563-3200  
(800) 634-5005  
(800) 782-5424 fax

### **GCS Service, Inc. #09**

180 Second Street  
Chelsea, MA 02150  
(617) 889-9393  
(800) 225-1155  
(617) 889-1222 fax



## JACKSON MAINTENANCE & REPAIR CENTERS (USA)

### VIRGINIA

**GCS Service, Inc. #18**  
5760 Northampton Blvd.  
Suite 106  
Virginia Beach, VA 23455  
(757) 464-3500  
(800) 476-4278  
(757) 464-4106 fax

**GCS Service, Inc. #07**  
2660 Pittman Drive  
Silver Spring, MD 20910  
(301) 585-7550 (DC)  
(410) 792-0388 (Balt)  
(800) 638-7278  
(301) 495-4410 fax

**GCS Service, inc. #18**  
2421 Grenoble Road  
Richmond, VA 23294  
(804) 672-1700  
(800) 899-5949  
(804) 672-2888 fax

**Daubers, Inc.**  
7645 Dynatech Court  
Springfield, VA 22153  
(703) 866-3600  
(800) 554-7788  
(703) 866-4071 fax

### WASHINGTON

**Restaurant Appliance Service**  
7219 Roosevelt Way NE  
Seattle, WA 98115  
(206) 524-8200  
(800) 433-9390  
(206) 525-2890

### WEST VIRGINIA

**AFS-Authorized Factory Service, Inc.**  
Rt.-1 Box 288  
S. Charleston, WV 25312  
(304) 344-8225  
(800) 654-4606  
(304) 344-8248 fax

### WISCONSIN

**Appliance Service Center, Inc.**  
2439 Atwood Avenue  
Madison, WI 53704  
(608) 246-3160  
(800) 236-7440  
(608) 246-2721 fax

**Appliance Service Center, Inc.**  
6843 W. Belloit Road  
West Allis, WI 53219  
(414) 543-6460  
(800) 236-6460  
(414) 543-6480 fax

### WISCONSIN (cont)

**Appliance Service Center, Inc.**  
786 Morris Ave.  
Green Bay, WI 54304  
(920) 496-9993  
(800) 236-0871  
(920) 496-9927 fax

### WYOMING

**Metro Appliance Service**  
1640 South Broadway  
Denver, CO 80210  
(303) 778-1126  
(800) 525-3532  
(303) 778-0268 fax

## JACKSON MAINTENANCE & REPAIR CENTERS (CANADA)

**Kontac Industries**

6504 South Broadway  
Edmonton, AB T6B0E7  
(780) 469-4869  
(800) 661-2500  
(780) 465-6937 fax

**Key Food Equipment Services**

#105-3728 North Fraser Way  
Burnaby, BC V5J5G1  
(604) 433-4484  
(800) 665-2655  
(604) 433-4684 fax

**Choquette - CKS**

2710 Lancaster Road  
Unit 119  
Ottawa, OT K1B4T7  
(613) 739-8458  
(800) 267-2515  
(613) 739-3851 fax

**Kontac Industries**

6271-15 Dorman Road  
Mississauga, OT L4V1H1  
(905) 677-1580  
(800) 661-2500  
(905) 677-2863 fax

**Choquette - CKS**

8487 19th Avenue  
Montreal, QU H1Z4J2  
(514) 722-2000  
(800) 361-7681(Quebec)  
(514) 722-5050 fax

**Service D'Equipment de  
Cuisine Entretien**

893 King O  
Sherbrooke, QU J1H1R9  
(819) 821-2153  
(819) 821-4015 fax

**A.A. Dot (Service  
d'Entretien)**

15 St. Alphonse  
Ste. Therese, QU J731G3  
(450) 435-7736  
(450) 435-5249 fax

**Choquette - CKS**

900 Pierre Bertrand  
Suite 220  
Vanier, QU G1M3k2  
(418) 681-3944  
(800) 463-5506  
(418) 681-3385 fax

