

INSTRUCTION MANUAL

FOR JACKSON MODEL:

MODEL 24LT



MANUFACTURERS WARRANTY ONE YEAR LIMITED PARTS & LABOR WARRANTY

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

Jackson MSC agrees under this warranty to repair or replace, at its discretion, any original part which fails under normal use due to faulty material or workmanship during the warranty period, providing the equipment has been unaltered, and has been properly installed, maintained and operated in accordance with the applicable factory instruction manual furnished with the machine and the failure is reported to the authorized service agency within the warranty period. This includes the use of factory specified genuine replacement parts, purchased directly from a Jackson authorized parts distributor or service agency. Use of generic replacement parts may create a hazard and void warranty certification.

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

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

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

TRAVEL LIMITATIONS

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

WARRANTY REGISTRATION CARD

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

REPLACEMENT PARTS WARRANTY

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

PRODUCT CHANGES AND UPDATES

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

THIS IS THE ENTIRE AND ONLY WARRANTY OF JACKSON MSC. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE, WITH RESPECT TO THE GOODS OR SERVICES COVERED HEREUNDER, SHALL IN NO CASE EXCEED THE PRICE OF THE GOODS OR SERVICES OR PART THEREOF WHICH GIVES RISE TO THE CLAIM.

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

ITEMS NOT COVERED

This warranty does not cover cleaning or deliming of the unit or any component such as, but not limited to, wash arms, rinse arms or strainers at anytime. Nor does it cover adjustments such as, but not limited to timer cams, thermostats or doors, beyond 30 days from the date of installation. In addition, the warranty will only cover the replacement of wear items such as curtains, drain balls, door guides or gaskets during the first 30 days after installation. Also, not covered are conditions caused by the use of incorrect (non-Commercial) grade detergents, incorrect water temperature or pressure, or hard water conditions.

TABLE OF CONTENT	T	Α	В	L	E	O F	. c	0	N	T	E	N	T	
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BEFORE CONNECTING, OPERATING OR ADJUSTING THIS PRODUCT, PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY AND COMPLETELY.

FOR YOUR CONVENIENCE, THIS MANUAL CONSISTS OF THE FOLLOWING SECTIONS IN THIS ORDER:

- 1. INSTALLATION
- 2. OPERATION
- 3. SPECIFICATIONS
- 4. CARE AND CLEANING
- 5. TROUBLESHOOTING
- 6. ILLUSTRATED PARTS LIST
- 7. WARRANTY

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SAFETY PRECAUTIONS

Never try to repair or replace any part of the dishwasher unless it is specifically recommended in this manual. All servicing should be done by a factory authorized service technician during warranty period, there are no user serviceable parts. Safety precautions in this manual are preceded by the words warning or caution and are very important. Warning means there is the possibility of personal injury to yourself or others. Caution means there is the possibility of damage to the unit.

CERTIFICATION



The UL Mark on this product indicates this product is Listed with the Underwriters Laboratory. This agency conducts tests and evaluations of products for compliance to UL Standards for Safety.



The NSF Seal is widely recognized as a sign that the article to which it is affixed complies with all public health and safety codes for foodservice equipment.

PRODUCT RECORD

ror belo	uture w.	use,	please	record	the	information	in	the	spaces	provided

DEALER		_	
DATE INSTALLED		_	
SERIAL NUMBER	۶ .	_	
MODEL NUMBER			

GENERAL

The Model 24LT Low-Temperature Chemical Sanitizing Dishmachine requires 50 Parts Per Million of Chlorine be dispensed into the final rinse water for proper sanitizing of the ware.

Installation of the Sanitizer, Detergent and Rinse Dispensing equipment connections must be made to back of machine before installing dishmachine undercounter or where installation will prevent access to back of machine.

Dishmachines not installed undercounter must be leveled. Adjust machine level by screwing the (feet) levelers in or out to raise or lower corners of machine. Level back and front, then left and right sides of machine.

Refer to the Specification section of this manual for all Dimensional requirements for installation

COMPLETE THE INSTALLATION CHECKLIST AFTER INSTALLATION IS COMPLETED

PLUMBING CONNECTIONS

All Plumbing connections must comply with all Sanitary, Safety and Plumbing Codes. CAUTION: Flush hot water supply lines prior to connection to dishmachine to remove all debris from lines.

STEPS:

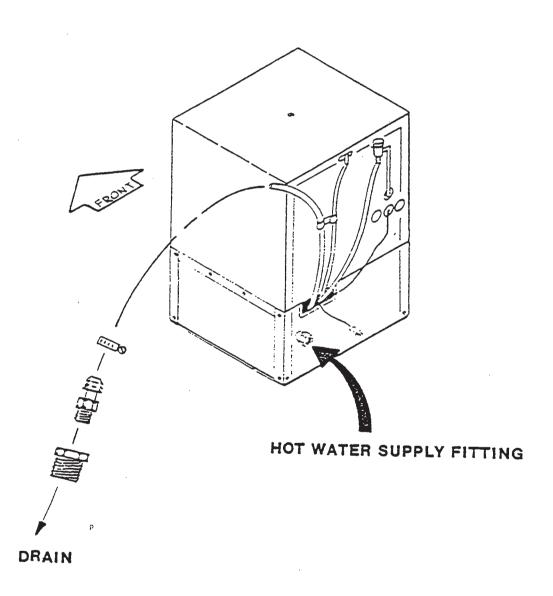
REFER TO FIGURE [1]

 Install a 1/2" (MIN.) supply line to the dishmachine hot water incoming 1/2" NPT Female fitting as shown in Figure [1]. Manufacturer recommends using a flexible copper 1/2" supply line with sufficient length looped at rear of dishmachine to allow machine to be removed for servicing.

NOTE: Supply line must have capacity to supply 43.7 gallons per hour of 120 F.(MIN.) of hot water at 20 PSI Flow pressure. Manufacturer recommends 140 F. hot water for best results.

NOTE: If water flow pressure is greater than 20 PSI, install a pressure regulator and adjust to 20 PSI Flow pressure. If flow pressure is less than 20 PSI, an adjustment must be made to the machine's Timer to increase the Fill cycle time during the Fill cycle so machine can fill to it's proper water level. See Timer Adjustment.

FIGURE 1



DRAIN CONNECTION

The Dishmachine is factory equipped with a Pump Drain system capable of pumping the drain water to a height of 24 inches from the floor. Approximately six (6) feet of drain hose is provided and attached to rear of machine. A hose barb and clamp are also provided along with a 1-dishwasher "Y".

CAUTION: Drain hose is factory mounted to rear of dishmachine at MAXIMUM height of (24") at which drain water can be pumped. DO NOT remove or relocate hose to higher level from which it is factory located. Do not elevate hose higher from this level of machine.

STEPS:

REFER TO FIGURE [1]

- 1. Install the 1-1/2" PVC threaded adaptor into dishmachine "Y" using teflon pipe tape as shown in Figure [1].
- 2. Install the threaded hose barb provided into adaptor.
- Cut dishmachine drain hose to appropriate length to reach the hose barb and install to barb using the hose clamp provided.

NOTE: Leave sufficient length of hose at back of machine to allow machine to be moved forward for servicing.

PROCEED TO ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTION

WARNING: All wiring connections must conform to the local and national electrical codes. Refer to machine electrical data plate located on front of machine and Specification section of this manual for proper electrical ratings.

POWER CORD

The dishmachine is provided with six (6) feet of power cord so connection can be made to nearest receptacle. Do not alter or remove this power cord in any manner.

STEPS:

1. Plug machine's power cord into convenient wall receptacle nearest machine which has service breaker rated for the machine's total load amperes.

WARNING: Wall receptacle to which machine's power cord is connected MUST have proper electrical ground. Test for proper electrical grounding.

UNDERCOUNTER INSTALLATION

Dishmachines installed undercounter without feet (adjustable levelers) must be sealed to floor by using sealer such as RTV, SILICONE or other non-toxic sealers.

STEPS:

 Once machine is in permanent position, seal base of machine to floor with sealer along edges of sides.

PAN STRAINER

Install Pan Strainer provided into wash/rinse tank.

SPRAY ARMS

Install upper and lower spray arms by inserting spindle end of arm into hub and turn clockwise while applying pressure.

PROCEED TO CHEMICAL DISPENSING EQUIPMENT

CHEMICAL DISPENSING EQUIPMENT

The Model 24LT is equipped with a factory installed Sanitizer pump for accurately dispensing sanitizer into the final fresh water rinse. A Detergent and Rinse pump dispenser is not provided with this dishmachine and must be installed prior to undercounter installation. An electrical connection point and signal is provided for the installation of a Detergent and Rinse dispensing pump. Refer to the following instructions for proper installation of this equipment.

SANITIZER DISPENSING

STEPS:

1. Install the Sanitizer "WHITE" plastic suction tube end and the Sanitizer "CLEAR" plastic probe tube end into the sanitizer container bottle so both tube ends touch bottom of bottle. Tubes are located at rear of machine and must be routed to bottle in such a manner as not to crimp or bend sharply.

NOTE: The clear plastic probe tube installed above is used to constantly measure sanitizer solution level in bottle. When solution level in bottle drops below two (2) inches, an indicator light located in the prime switch will light up to provide a signal to the operator that the sanitizer bottle is low.

PRIME SWITCH

The sanitizer priming switch is located on the control panel. This prime switch will only activate the factory installed sanitizer pump, so priming of the sanitizer line to the injection point can be accomplished. The sanitizer injection fitting is located inside of dishmachine, directly above pan strainer at rear wall.

STEPS:

 Press prime switch while observing the injection fitting inside of machine and release switch when solution is primed.

PROCEED TO SANITIZER DISPENSING ADJUSTMENT

SANITIZER DISPENSING ADJUSTMENT

The sanitizer dispenser pump is factory pre-set to accurately dispense approximately 7.5 milliliters (50 parts per million) sanitizing agent based on an 8.4 % solution of Sodium Hypochlorite.

Adjustment of the sanitizer dispenser pump timer may be necessary depending on the type and sanitizer solution used. Consult your chemical representative for further details. Refer to Timer Adjustment section of this manual for proper adjustment of sanitizer dispensing.

DETERGENT AND RINSE AGENT DISPENSING EQUIPMENT

The Model 24LT is a Dump-and-Fill type dishmachine which dumps the wash tank water and refills with fresh water each cycle. This type of dishmachine cannot use the concentration probe often used in the wash tank to control detergent injection.

The dishmachine will supply an electrical signal of 115 volts during the wash and rinse cycle for detergent and rinse agent equipment connection. The duration of this signal can be increased or decreased to achieve proper solution in wash/rinse water. Refer to Timer Adjustment section of this manual for proper procedures for increasing or decreasing detergent and rinse agent dispensing duration.

NOTE: The Detergent dispensing timer is factory set to dispense approximately 12 milliliters of detergent during the wash cycle. The Rinse agent dispensing timer is factory set to dispense approximately 5 milliliters of rinse additive during the rinse cycle.

S T E P S : DISCONNECT POWER TO MACHINE

- Remove and discard the plastic bulkhead plug provided for installation of detergent and/or rinse injection fitting at back of machine.
- Install detergent and/or rinse injection fitting into 7/8" diameter hole provided.
- 3. Remove front lower kick panel from dishmachine to access electrical connection point for dispensing equipment. Dishmachine door must be opened slightly for upward removal of lower kick panel.
- 4. Locate the electrical terminal and fuse block as shown in Figure [2]. Using decal provided at block, make appropriate connections and install fuses as specified.

CAUTION: Insure that a 3AG "SLO-BLO" 2.5 AMP MAX. type fuse is used and proper electrical ground is made.

PROCEED TO TIMER ADJUSTMENT SECTION

FIGURE 2 DETERGENT/RINSE DISPENSING EQUIPMENT CONNECTION

TIMER ADJUSTMENTS

GENERAL.

The timer is a self-contained (frame mounted) timer of the repeating cycle type. It is mounted behind the lower kick panel, where it controls the automatic functions of the machine. The timer motor operates on 115 volts, 60 cycles, taking (2) minutes to complete one full revolution. There are (7) micro switches which are controlled by rotating cams driven by the timer motor. Four (4) of the cams are adjustable and can be adjusted to either lengthen or shorten the desired function.

WARNING: Turn power off to machine when making all timer adjustments.

The timer cams are preset at the factory but may have to be readjusted for different conditions of the country and for the different brands of detergent, rinse additive and sanitizing solutions. Both sides of the four adjustable cams are hex-shaped for easy adjustment using wrenches provided. Two (2) wrenches are provided for timer adjustments and are taped to base plate directly below timer.

PLEASE READ THE OPERATION INSTRUCTIONS BEFORE MAKING TIMER ADJUSTMENTS

STEPS:

REFER TO FIGURE 3

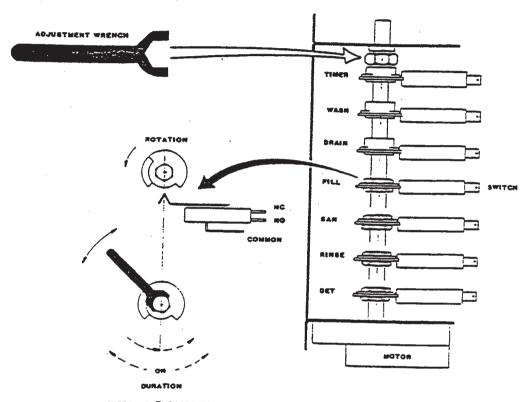
- To make adjustment, place one wrench on timer shaft nut as shown in figure 5 and hold stationary.
- While holding timer shaft stationary, place other wrench provided on hex side of cam to which adjustment is being made and increase or decrease the gap/detent length.

NOTE: Increasing or decreasing the gap/detent length will make the particular function longer or shorter, i.e., need more detergent during wash cycle, increase gap/detent to make detergent injection function longer, thereby increasing the amount of detergent dispensed into wash water.

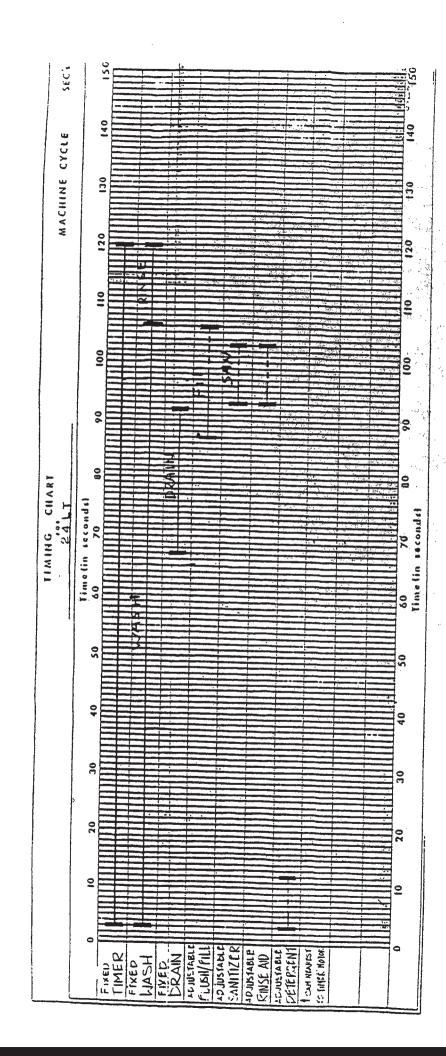
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FIGURE 3

TIMER ADJUSTMENT



INCREASE D SECREASE



TIMER ADJUSTMENTS

TIMER FUNCTIONS

All timer functions are on marked on the timer frame adjacent to each timer cam controlling that function.

The different cam functions are:

"Not adjustable" Fixed cam that controls the total length of the cycle, activated by the "START" switch.

WASH "Not adjustable" Fixed cam that controls the wash cycle length.

DRAIN "Not adjustable" Fixed cam that controls the draining of the tank during the drain/flush function.

"ADJUSTABLE FUNCTION" Adjustable cam that controls the amount of hot water used to fill the wash/rinse tank up to the specified level marked on tank. Factory set to fill tank up to specified water level using 20 PSI Flow pressure.

HIGH WATER PRESSURE: For water flow pressures higher than 20 PSI, install a water pressure regulator and adjust to 20 PSI Flow pressure.

LOW WATER PRESSURE: For water flow pressures lower than 20 PSI, adjust the Fill cycle length by increasing the gap/detent of the Fill Cam to make the fill function longer. This will lengthen the fill time and allow the low water flow pressure sufficient time to fill up to the specified level on tank.

CAUTION: The dishmachine cannot function properly on water level lower than what is specified, adjustment of timer fill function must be made to compensate for low flow pressures.

High flow pressure must be properly regulated or could occur.

PROCEED TO NEXT PAGE

TIMER ADJUSTMENTS

SAN

"ADJUSTABLE CAM" It operates the sanitizer pump that dispenses the sanitizer solution. By adjusting this cam you can either increase or decrease your amount of sanitizer solution. The cam is factory set to dispense 7.5 milliliters (50 parts per million) of sanitizing agent based on an 8.4 % solution of sodium hypochlorite. Consult your chemical representative for further details on brand/type of chemical used and solution.

PRIMING: The sanitizer prime switch is located on the control panel and is provided for moving the sanitizer from it's bottle to the injection fitting.

NOTE: The sanitizer low-level probe installed in the sanitizer container/bottle will light an indicator lamp located in the prime switch when sanitizer solution level falls below two (2) inches.

RINSE

"ADJUSTABLE CAM" It provides a 115 volt signal source for installation of an aftermarket Rinse dispenser. The signal will activate the rinse dispenser during the rinse cycle. The cam is factory set to dispense 5 milliliters of rinse agent. By adjusting this cam you can either increase or decrease the amount of additive injected.

DET

"ADJUSTABLE CAM" It provides a 115 volt signal source for installation of an aftermarket Detergent dispenser. The signal will activate the detergent dispenser during the wash cycle. The cam is factory set to dispense 12 milliliters of detergent By adjusting this cam you can either increase or decrease the amount of detergent injected.

COMPLETE THE INSTALLATION CHECKLIST BEFORE PROCEEDING TO OPERATION

Please check off the following items as they are completed, all items must be completed and checked off before proceeding to operation.

In the event that your machine has missing parts or installation information is needed, please call authorized sevice agency or call telephone number provided on cover of this manual.

OPERATING INSTRUCTIONS

GENERAL

Please read the following operating instructions carefully and completely. Proper operation of your Model 24 LT will insure clean and sanitized ware.

The Model 24 LT Low-Temperature Chemical Sanitizing Dishmachine requires 50 Parts per Million of Chlorine be dispensed into the final rinse water for proper sanitizing of the ware. Use prime switch to prime line at start-up.

MACHINE OPERATIONAL REQUIREMENTS

WASH/RINSE water temperature must be a MINIMUM of 120 Degrees F. when operating the dishmachine.

NOTE: If unit is not operated for extended periods of time, the water temperature in the wash/rinse tank will fall below the 120 F. MIN. required. If so, drain and refill with MIN. 120 F. hot water.

OPERATING CYCLE TIMES

A complete Wash/Rinse operating cycle for the Model 24 LT lasts (2) minutes. It includes:

WASH - 66 SECONDS PER CYCLE

DWELL - 33 SECONDS PER CYCLE (drain and flush)

RINSE - 18 SECONDS PER CYCLE

WARE PREPARATION

- 1. Scrape dishes thoroughly.
- 2. Pre-wash by soaking or spraying with a pre-rinse 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. Do not put glasses on top of silverware.

NOTE: Silverware should be washed upright in a special compartment silverware rack for best results.

PROCEED TO NEXT PAGE FOR OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

MACHINE OPERATION

TO FILL (START-UP)

STEPS:

- 1. Press Power Switch to "ON" position, red lamp will light.
- Remove Strainer Pan inside and press and hold the Fill Switch until water reaches level marked on tank. Replace strainer pan. Never operate machine without water.

TO WASH

- Install upper and lower spray arms.
- 2. Check chemical bottles for adequate supply.

NOTE: Low Sanitizer Lamp in Prime Switch will light when Sanitizer level in bottle is "LOW".

- 3. Insert Dish Rack and close door.
- 4. Press Start Switch and hold for approximately (3) seconds and release, red lamp will light and cycle will start automatically, light will go out when cycle is complete.

NOTE: If door of machine is opened during cycle, all machine functions will stop. When door is closed, cycle will resume automatically where stopped.

TO DRAIN AT END OF DAY/MEALTIME

- Press and hold Drain Switch until water in tank is Drained completely out.
- 2. Clean Strainer Pan and replace.
- 3. Remove Drain Pump cleanout cap and clean out pump, replace

DAILY (2-3 times) OR AS MEEDED

 Clean the Strainer Pan daily or as needed to remove debris from strainer openings.

NOTE: It is very important that the strainer pan is always clean.

 Clean the Drain Pump daily or as needed to remove debris from inside of pump housing. Drain machine completely and remove cap and clean, replace cap firmly.

WEEKLY OR AS NEEDED

 Clean the Upper and Lower spray arms weekly or as needed. Remove and disassemble spray arms as shown in Figure [6].

Remove end plugs and flush or clean with a tube brush.

Clean spindle and other parts by either soaking or brushing wit deliming solution.

2. Remove all lime and corrosion deposits from machine.

Fill machine and place one cup of de-liming compound into water. The compound is available through your detergent supplier.

Run machine through complete cycle and examine the interior, repeat if needed. Drain machine and refill, run machine through another cycle to flush system completely.

YEARLY OR AS NEEDED

1. Clean the incoming hot water "Y' Strainer yearly or as needed.

CAUTION: Turn off incoming hot water to machine and relieve the pressure in line by pressing fill switch. Remove plug and clean wire screen.

PROBLEM	CAUSE	SOLUTION
operate (power	Power cord unpluged	Check power cord
switch light off)	Circuit breaker tripped	Reset breaker
Machine does not operate (power	Door open on machine	Close door
switch light on)	Machine 5 AMP circuit breaker tripped	Reset
	Faulty Start Switch	Test switch
	Faulty Timer Motor	Test motor
	Faulty Timer Switch	Test switch
	Loose, disconnected or broken wire	Check wiring
Will not Fill when depressing Fill switch	Faulty or obstructed incoming solenoid	Test and check solenoi
(power light on)	Faulty Fill Switch	Test switch
	No water pressure	Test pressure
	Loose, disconnected or broken wire	Check wiring
Spray Arms spray water but do not rotate or spray is very weak	Full of food particles	See care and cleaning of spray arms
Wash/Rinse motor does not operate	Motor overload tripped	Contact service agence
	Faulty Motor	Test motor
	Faulty Motor contactor	Test contactor
	Faulty Timer	Test timer
Sanitizer will not prime when	Faulty Prime switch	Test switch
depressing prime switch	Faulty Sanitizer pump	Test pump
	Defective Sanitizer pump suction tubing, pinch tube	Check and replace
Machine will not Drain when	Air gap in drain motor	Clean pump vent hole
depressing the prain switch	Faulty or clogged Drain valve [PAGE 14]	Check and test val

24 SERIES

DISHWASHERS

SPECIFICATIONS





POWER / CONNECTIONS

Pump	Motor	3/4 HP
Pump	Capacity	SO GPM

Electrical Ratings: 115 Volts / 60 Hz / 1 Phase Total Load 10 Amps

Water Requirements:	
Minimum Water Inlet Temperature	140°F
Gailons Per Hour	43.7
Gallons Per Rack	1.8
Flow Pressure Required	20 PSI
Waterline Size Required	1/2"
Recommended Drainline Size	1-1/20

DIMENSIONS

Height-minimum	34"
Height-maximum	35"
Width	24"
Depth	25"
Wall Clearance-minimum	2-1/24
Maximum Inside Clearance	15"

PERFORMANCE / CAPACITIES

Operating Capacities:	
Racks Per Hour	24
Dishes Per Hour	600
Glasses Per Hour	600

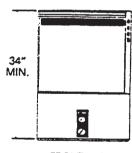
Standard Racks Supplied:	
19-3/4" X 19-3/4" Dish (peg)	1
19-3/4" X 19-3/4" Combination (flat)	1

Operating Cycle Times:	
Wash Time - seconds	66
Dwell Time - seconds	33
Rinse Time - seconds	18
Total Cycle Time - minutes	2

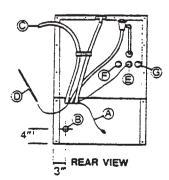
Wash/Rinse Tank:								
Capacity - gallons								
Temperature - recommended								
NSF mini	mum 120°F							
Shipping Weight - poun	ds 200							
Carton Size	30" x 30" x 38"							

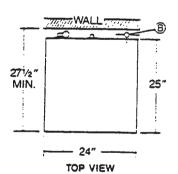
LEGEND TO DRAWING

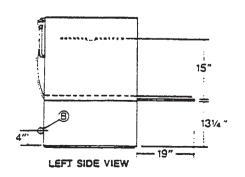
- A. Electrical Cord 5-1/2 feet with standard duplex 125 Volt 15 Amp (MEMA Style 5-15) plug
- Vater Inlet 1/2" female pipe thread, Requires 160°F incoming vater supply.
- C. Drain Hose 11/16" inside diameter Hose is 6 feet tong and supplied with a 1-1/2" MPT adapter
- 0 Samitizer supply tube
- E Sanitizer dispensing point
- Detergent dispensing point for connection of dispensing equipment by others.
- Since Agent dispensing point for correction of dispensing equipment by others.



FRONT VIEW







Jackson® Products Company

FACTORY SERVICE BULLETIN #144

JUNE 26, 1990

SUBJECT: MODEL 24LT DOOR HINGE SPRING P/N-0048110

GENERAL: DOOR HINGE SPRING KIT P/N-7000111 WILL REPLACE P/N-0048110 SPRING AND ALSO SPRING KIT P/N-0048106. THESE PARTS WILL NO LONGER BE AVAILABLE. THE NEW SPRING KIT P/N-7000111 MUST BE INSTALLED WHEN REPLACING ALL P/N-0048110 SPRINGS AND P/N-0048106 SPRING KITS - NO PARTS ARE INTERCHANGEABLE. THE NEW DOOR SPRING HAS BEEN RE-ENGINEERED TO IMPROVE DURABILITY AND RELIABILITY.

THE NEW DOOR SPRING INCLUDED IN P/N-7000111 SPRING KIT WILL NOT RECOIL THE DOOR COMPLETELY CLOSED AS THE ORIGINAL SPRING WOULD. THE NEW SPRING WILL ONLY SUPPORT THE DOOR'S WEIGHT. IN ADDITION TO THE NEW SPRING, A BALL PLUNGER LATCH MECHANISM IS INSTALLED IN THE TOP OF DOOR TO HOLD THE DOOR IN THE CLOSED POSITION.

THIS CHANGE WILL BE A RUNNING CHANGE WITHOUT OBSOLESENCE OF ANY FIELD INVENTORY. ALL ORDERS FOR P/N-0048110 AND 0048106 WILL BE REPLACED WITH P/N-7000111 AT THIS TIME.

INSTALLATION

THE NEW TORSION SPRING IS NOT TENSIONED OR LOADED AS THE ORIGINAL SPRING. IT IS ONLY NECESSARY TO TWIST SPRING AXLE SLIGHTLY TO INSERT AXLE INTO DOOR HINGE. PLEASE FOLLOW INSTALLATION INSTRUCTIONS PROVIDED WITH KIT.

PARTS PROVIDED WITH NEW SPRING KIT:

TOOLS REQUIRED:

- 1) TORSION SPRING
- 2) AXLE
- 3) STAINLESS STEEL BUSHING
- 4) NYLON AXLE BUSHING
- 5) BALL PLUNGER ASSEMBLY
- 6) BALL PLUNGER MOUNTING RING
- 7) INSTALLATION INSTRUCTIONS

- 1) DRILL
- 2) 3/8" DRILL BIT
- 3) SCREWDRIVER
- 4) PLIERS
- 5) 3/4" OPEN END WRENCH
- 6) 1" OPEN END WRENCH

TORSION SPRING ASSEMBLY

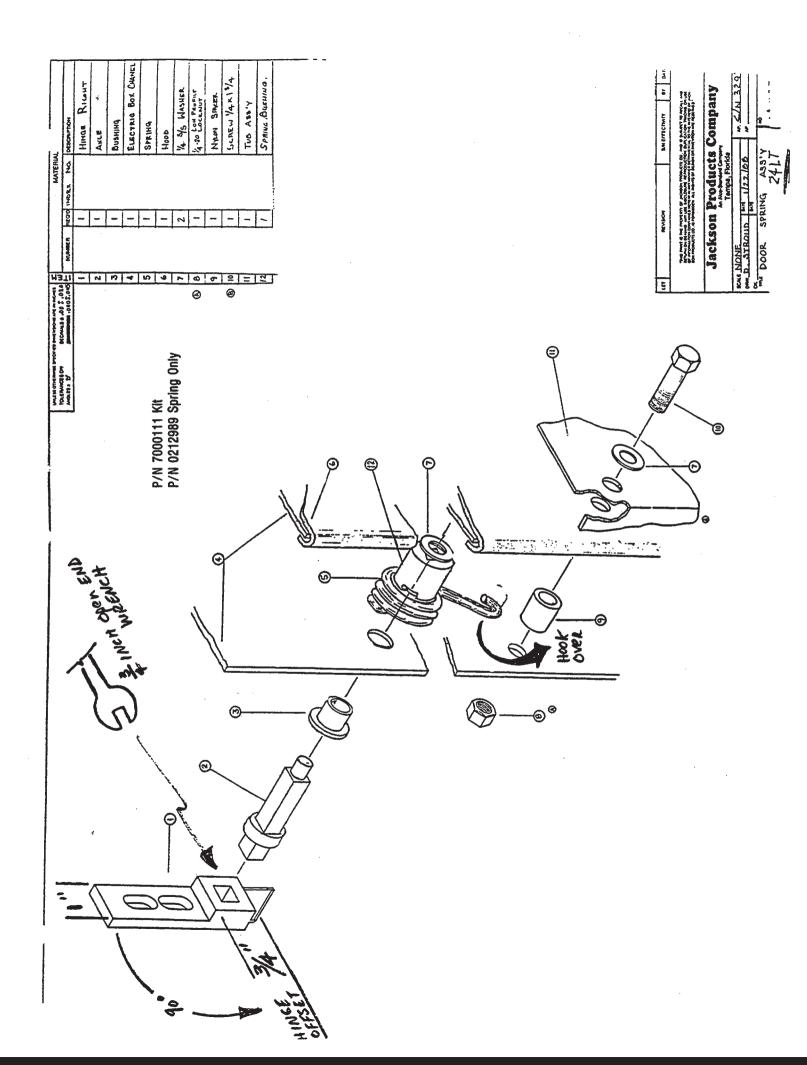
P/N-7000111

PROCEDURE:

- * Loosen #10 Screw and pull the screw half way thru the #9 Nylon Spacer.
- * Place the #12 Spring Bushing into the #5 Spring with the spring's center bar in the bushing's slot.
- * Insert the spring's hook around the nylon spacer; place the spring and spring bushing ass'ly into #4 Electric Box Channel; and tighten the #10 screw in place.
- * Insert the #3 Bushing and #2 axle thru the #4 Electric Box Channel into the #12 Bushing's square hole.
- * Place the Right Hinge in a vertical position on the #2 axle.
- * Place a 1" open end wrench on the end of the hinge and rotate it 90 degrees and then place a 3/4" wrench on the hinge offset. Allow the 1" wrench to return to the vertical position. The 3/4" wrench will hold the hinge in place.
- * Insert the left hinge hole on the left axle and adjust it at the same angle as the right hinge.
- * Slide the door onto the both hinges and then open the door. The 3/4" wrench can now be removed.
- * Place screws in place thru the hinges and into the door.
- * Using the hinge spacers adjust the door so there is a 1/8" space between hood and door's top edge and the sides centered.
- * Tighten all screws.

NOTE: THIS SPRING ASSEMBLY IS DESIGNED TO COUNTER BALANCE THE DOOR'S WEIGHT ONLY AND SEE THE BALL LATCH ASSEMBLY TO HOLD THE DOOR IN THE CLOSED POSITION

THIS SPRING WILL NOT RECOIL DOOR CLOSED -



BALL PLUNGER ASSEMBLY

PROCEDURE:

* Drill a 3/8" Dia. hole in top of door at the proper location as shown on drawing.

* Insert Ball Plunger thru this hole.

* With your fingers, place the Push Nut on the ball plunger with the taper down. You should be able to engage the nut with your thumb and fingers.

* Hold the Ball Plunger with your fingers and use a screw driver to push the nut to a tight position. Note: Rotate Ball Plunger as the

nut is being pushed on.

* Close the door. A line on the underside of hood is clearly marked when the door is open. Center punch at the inside end of the line. Use a center drill to assure a definite drilling point. Now take a 3/8" Dia. Drill and spot drill to 1/32"-1/16" Deep.

* The door plunger ball will locate in the drilled indent to hold the door closed.

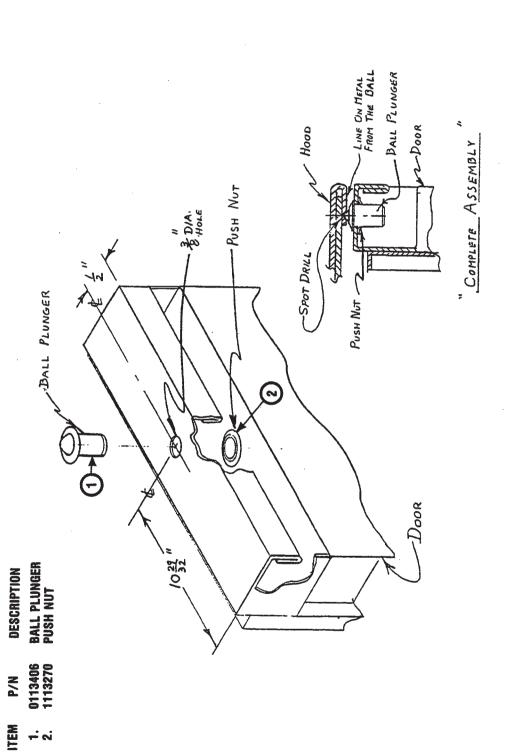
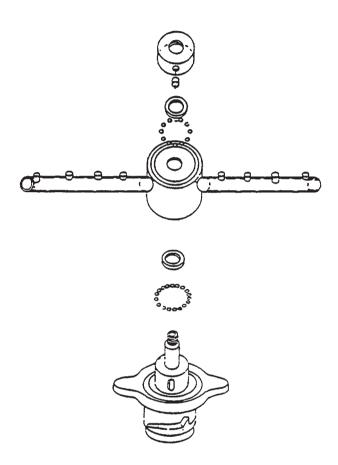


FIGURE 4



SPRAY ARM ASSEMBLY

																		-			
I	L	L	U	S	T	R	A	T	E	D	1	9	Α	R	T	S	L		I	s	T

The Illustrated Parts List Section will contain exploded assembly drawings illustrating a complete replacement parts list for the Model 24 LT.

When ordering a Replacement Part:

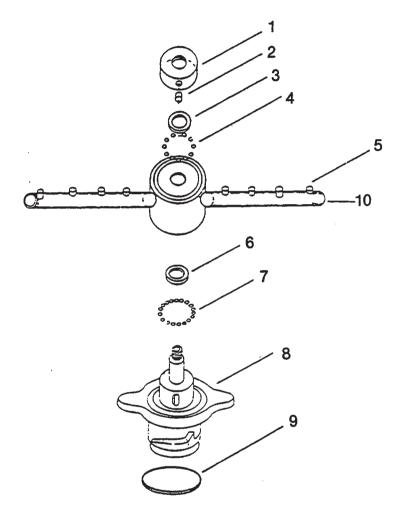
PLEASE PROVIDE THE FOLLOWING INFORMATION:

MODEL NUMBER

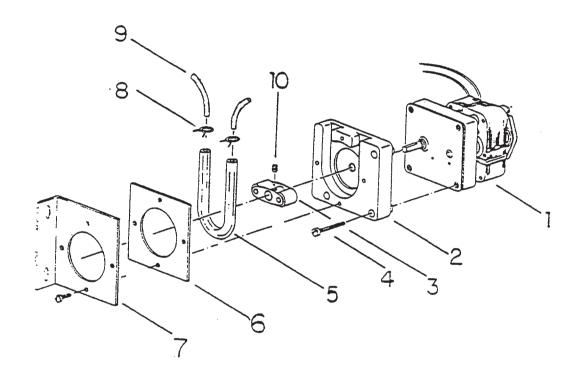
SERIAL NUMBER

REPLACEMENT PART NUMBER(S)

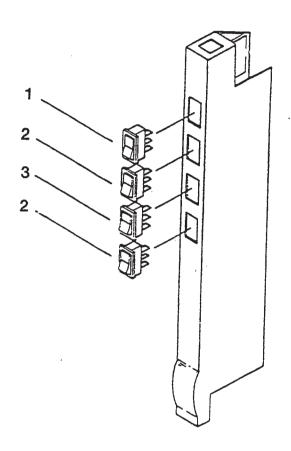
CAUTION: Never substitute a replacement part with an unauthorized part.



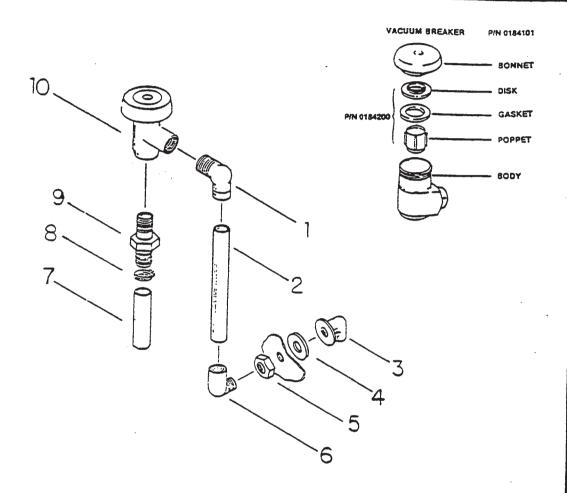
ITEM NO.	PART NUMBER	DESCRIPTION OF PART
All	0199700	WASH/RINSE SPRAY ARM ASSEMBLY
1	0199705	WASH/RINSE SPRAY ARM RACE W/SET SCREW
2	0187000 p	WASH/RINSE SPRAY ARM RACE SET SCREW
3	0199702	WASHER, UPPER SPRAY ARM
44	0194004	BALL BEARING, SET OF 29 PER SPRAY ARM
5	0199704	SPRAY ARM
6	0199702	WASHER, LOWER SPRAY ARM
7	0194004	BALL BEARINGS (18 IN BOTTOM - 11 IN TOP)
8	0199701	SPRAY ARM SPINDLE
9	0199707	SPRAY ARM SPINDLE SEAL
10	0199501	END PLUG S/S



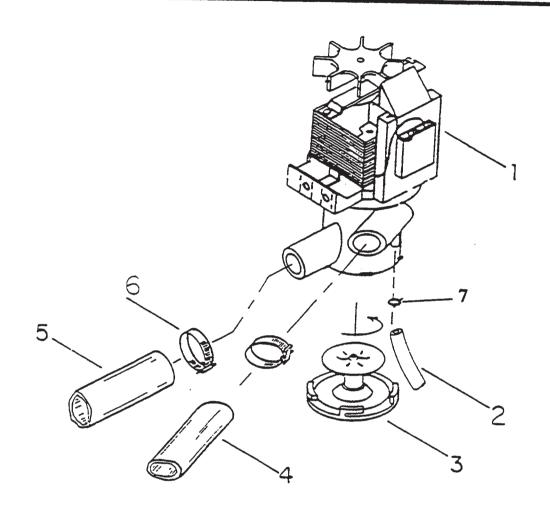
ITEM NO.	PART NUMBER	DEGODING
		DESCRIPTION OF PART
1	0046501	DISPENSER, PUMP MOTOR ONLY
	0046500	DISPENSER, COMPLETE
2	0046502	DISPENSER, PUMP HOUSING
3	0046504	DISPENSER, CAM ROLLER
4	0046509	DISPENSER, FACE PLATE SCREWS
5	0046506	DISPENSER, PUMP HOSE
6	0046508	DISPENSER, FACE PLATE
7		DISPENSER MOUNTING BRACKET
8	0052114	HOSE CLAMPS
9	0046510	DISPENSER HOSE
10	0046505	SET SCREW



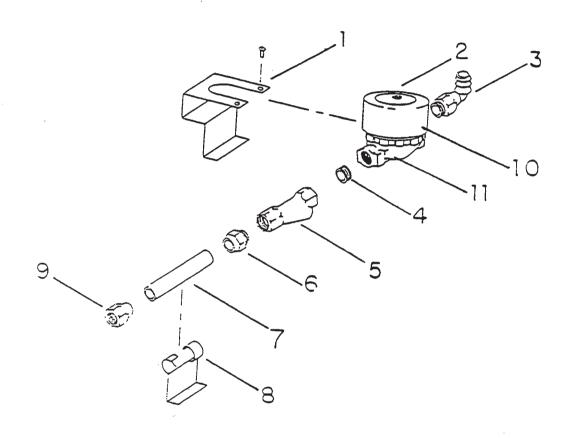
ITEM NO.	PART NUMBER	DESCRIPTION OF PART
1	0160100	SWITCH, POWER ON/OFF
2	0160200	SWITCH, START AND PRIME
3	0160300 p	SWITCH, FILL AND DRAIN



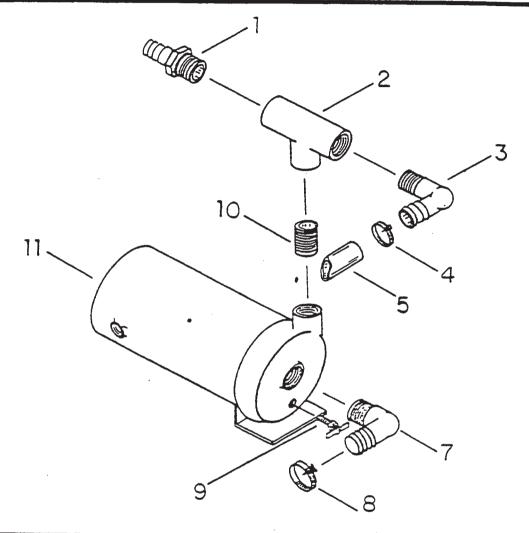
ITEM NO.	PART NUMBER	DESCRIPTION OF PART
<u>l</u>		FILL PLUMBING EBOW 1/2"
2		COPPER PIPE 1/2"
3		FILL PLUMBING NOZZLE
4		FILL PLUMBING NOZZLE WASHER
5		FILL PLUMBING NUT
6		FILL PLUMBING ELBOW 1/2"
7		FILL PLUMBING HOSE 1/2"
8		HOSE CLAMP
9		FILL PLUMBING HOSE BARB 1/2"
10	0184101	VACUUM BREAKER 1/2"
	0184200	VACUUM BREAKER REPAIR KIT 1/2"



ITEM NO.	PART NUMBER	DESCRIPTION OF PART
1	0052118	PUMP, DRAIN 115V
2	0052115	PUMP, DRAIN BLEEDER HOSE
3	0052119	PUMP, DRAIN CAP
4	0052116	PUMP, DRAIN HOSE TO SOLENOID
5	0052117	PUMP, DRAIN HOSE TO DRAIN BARB
6	0052123	HOSE CLAMP
7	0052124	HOSE CLAMP

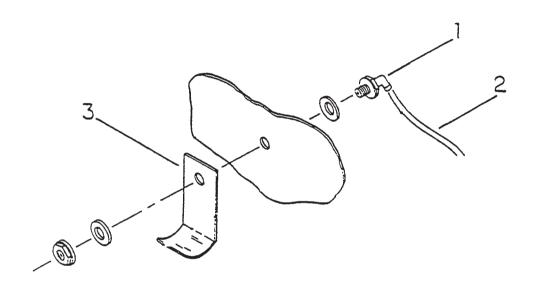


ITEM NO.	PART NUMBER	DESCRIPTION OF PART
1		BRACKET, SOLENOID
2	0142100	SOLENOID VALVE COMPLETE
3	6063500	SOLENOID HOSE BARB ELBOW
4		SOLENOID CLOSE NIPPLE 1/2"
5	0153600	STRAINER "Y" INCOMING HOT WATER
6		FITTING 1/2"
7		COPPER PIPE 1/2"
8		BRACKET, PIPE SUPPORT
9		FITTING, PIPE 1/2" NPT
10	0143600	SOLENOID COIL(110V)
11	0145100	SOLENOID VALVE DIAPHRAM



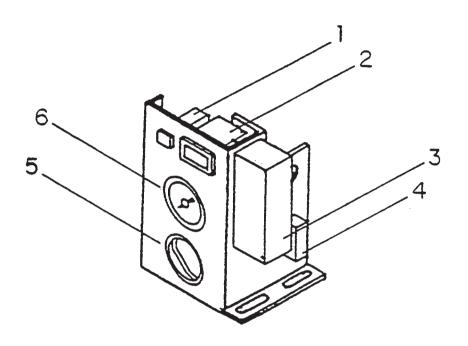
ITEM NO.	PART NUMBER	DESCRIPTION OF PART
1	0087912	PUMP HOSE BARB
2	0087914	PUMP HOSE THREADED TEE 1" NPT
3	0087911	PUMP HOSE ELBOW 1"
4		HOSE CLAMP
5	0087908	PUMP HOSE 3/4" LOWER SPRAY ARM
7	0087910	PUMP SUCTION HOSE ELBOW 1 1/4"
8	0052123	HOSE CLAMP
. 9	2001700	PUMP HOUSING PETCOCK
10	0087913	PUMP HOUSING CLOSE NIPPLE
11		PUMP MOTOR ONLY 115V (NOT AVAILABLE)
	0087900	PUMP AND MOTOR COMPLETE
	0087006	PUMP SEAL/GASKET—P/N 0087915

ILLUSTRATED PARTS LIST



ITEM NO.	PART NUMBER	DESCRIPTION OF PART
1	0046525	FITTING, INJECTION, SANITIZER
2	0046510	TUBING, PUMP, SANITIZER 10 FT
3	0141300	BRACKET, SANITIZER DRIP CUP
		
<u> </u>	<u> </u>	

ILLUSTRATED PARTS LIST



ITEM NO.	PART NUMBER	DESCRIPTION OF PART
2	0034200	COUNTER, CYCLE
1	0012600	CIRCUIT BREAKER, 5AMP
3	0172800	TIMER ASSEMBLY COMPLETE
	0172801 p	TIMER MOTOR 115V
	0172802	TIMER MICROSWITCH
4	0122701	RELAY, MOTOR CONTACTOR
5	0052118	PUMP, DRAIN 115V
	0052111	PUMP, DRAIN VENT CAP
	0052115	PUMP, DRAIN BLEEDER HOSE
	0052116	PUMP, DRAIN, HOSE TO SOL. 10 FT X 5/8 ID
	0052117	PUMP, DRAIN, HOSE TO DRAIN BARB FITTING
66	0166602	THERMOMETER, WASH

SERVICE INSTRUCTIONS (INCOMING WATER SOLEHOID VALVE)

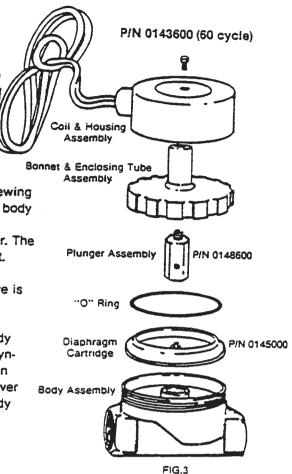
SOLENOID VALVE P/N 0142100 (110V, used on 60 cycle machine)

To take the valve apart:

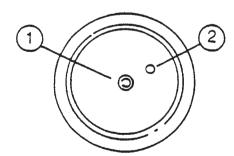
Disassembly — These valves may be taken apart by unscrewing the bonnet and the enclosing tube assembly from the valve body assembly. See Fig. 3. After unscrewing, carefully lift off the bonnet and enclosing tube assembly. Don't drop the plunger. The "O" ring seal and diaphragm cartridge can now be lifted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

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

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



DIAPHRAGM CARTRIDGE



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

Remedy

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

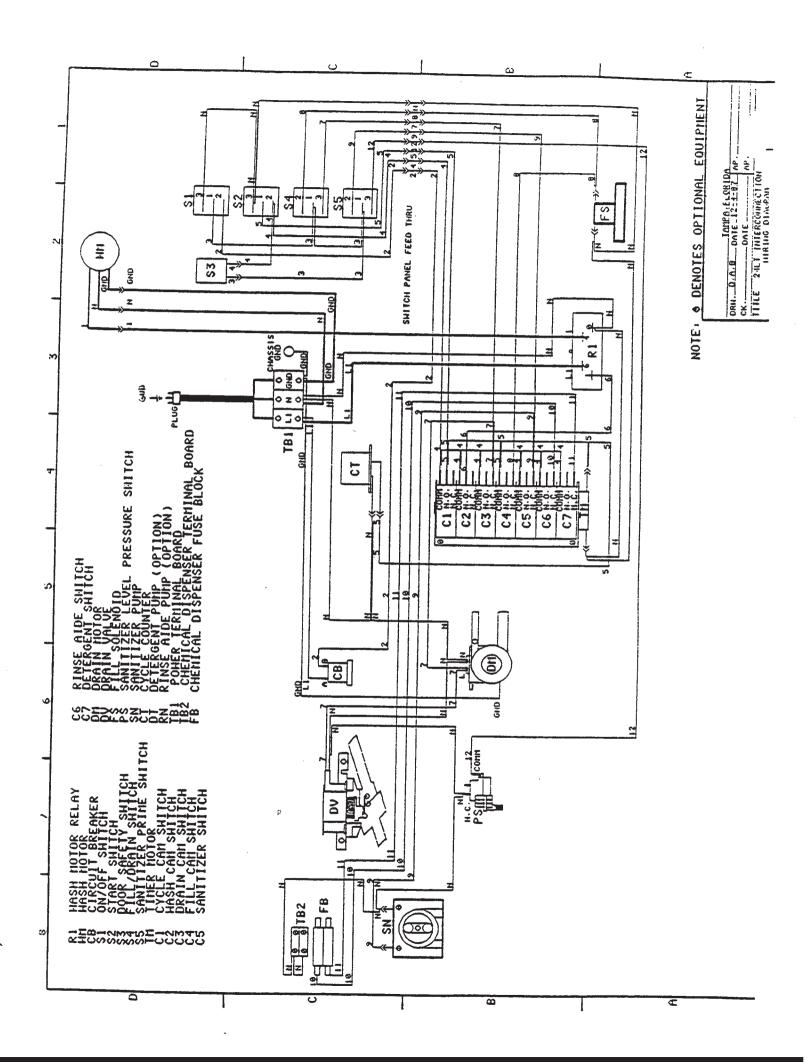
REPLACEMENT PARTS LIST FOR MODEL—24LT

PART NUMBER	DESCRIPTION
0034200	COUNTER, CYCLE
0012600	CIRCUIT BREAKER, 5 AMP
0046500	DISPENSER, COMPLETE "SANITIZER"
0046501	DISPENSER, PUMP MOTOR ONLY
0046502	DISPENSER, PUMP HOUSING ONLY
0046504	DISPENSER, PUMP CAM ROLLER ASSEMBLY
0046505	DISPENSER, PUMP CAM ROLLER SET SCREW
0046506	DISPENSER, PUMP HOSE
0046507	DISPENSER, PUMP HOSE CLAMP
0046508	DISPENSER, PUMP FACE PLATE
0046509	DISPENSER, PUMP FACE PLATE SCREWS, 8/32
0046510	DISPENSER, PUMP TUBING INLET/OUTLET, 10 FT.
0046512	DISPENSER, PUMP TUBING STIFFENERS, INTAKE
0048100	DOOR, COMPLETE ASSEMBLY
0048104	DOOR, OUTER PANEL
0048105	DOOR, INNER PANEL W/RACK SLIDES
7000111	DOOR, HINGE SPRING COMPLETE ASSEMBLY
	DOOR, HINGE, RIGHT SIDE
	DOOR, HINGE, AXLE
	DOOR, HINGE, AXLE BUSHING
	DOOR, HINGE, AXLE SPRING
0048111	DOOR, HNGE, AXLE SPRING WASHER, S/S 1/4"
0048112	DOOR, HINGE, AXLE SPRING LOCKNUT S/S 1/4"
0048113	DOOR, HINGE, AXLE SPRING NYLON SPACER
0048114	DOOR, HINGE, AXLE SPRING BOLT, S/S 1/4-20
0054212	DRAIN, SOLENOID 90° ANGLE
0087900	PUMP AND MOTOR, WASH/RINSE, COMPLETE
0087900	PUMP, MOTOR ONLY, 115V, 3/4 HP, 3450 RPM
0087902	PUMP, HOUSING ONLY
0087006	PUMP, SEAL
0087904	PUMP, IMPELLER
0087905	PUMP, IMPELLER NUT
0087906	PUMP, HOUSING PETCOCK
0087907	PUMP, HOSE, SUCTION, 1 1/4" x 5 1/2"
0087908	PUMP, HOSE, SPRAY ARM LOWER 3/4"
0087909	PUMP, HOSE, SPRAY ARM UPPER 3/4"
0087910	PUMP, HOSE, SUCTION, ELBOW BARB, 1 1/4"
0087911	PUMP, HOSE, SPRAY ARM LOWER ELBOW 1"
0087912	PUMP, HOSE, SPRAY ARM UPPER BARB 1"
0087913	PUMP, HOUSING, CLOSE NIPPLE 1" NPT
0087914	PUMP, HOUSING, THREADED TEE, 1" NPT
0122701	RELAY, MOTOR CONTACTOR
0142000	SOLENOID VALVE, COMPLETE 110V
0143600	SOLENOID VALVE, COIL 110V
0145100	SOLENOID VALVE, DIAPHRAGM CARTRIDGE 1/2"
0087915	GASKET PUMP

*	
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FARI	NUMBER

DESCRIPTION

0142803	SOLENOID, VALVE, PLUNGER ASSEMBLY 1/2"
0151700	STRAINER, PAN, WASH TANK
0153600	STRAINER, "Y", INCOMING HOT WATER 1/2"
0160100	SWITCH, POWER, ON/OFF
0160200	SWITCH, START AND PRIME, W/LAMP
0160300	SWITCH, FILL/DRAIN
0160400	SWITCH, DOOR CONTACT
0160500	SWITCH, DOOR CONTACT MAGNET
0166602	GAUGE, THERMOMETER, WASH/RINSE TANK
0166100	TERMINAL BOARD, 3-WAY
0172800	TIMER, CYCLE, 7-CAMS 115V
0172801	TIMER, CYCLE, MOTOR 115V
0172802	TIMER, CYCLE, MICRO-SWITCH
0184101	VACUUM BREAKER, 1/2" CONBRACO
0184200	VACUUM BREAKER, 1/2" CONBRACO REPAIR KIT
0199700	SPRAY ARM ASSEMBLY COMPLETE W/SPINDLE
0199701	SPRAY ARM, SPINDLE
0194000	SPRAY ARM, BALL BEARINGS "SET OF 29"
0199702	SPRAY ARM, SPINDLE BOTTOM WASHER
0199702	SPRAY ARM, SPINDLE UPPER WASHER
0199704	SPRAY ARM ONLY
0199705	SPRAY ARM, SPINDLE CAP W/SET SCREW
0187000	SPRAY ARM, SPINDLE CAP SET SCREW
0052118	PUMP, DRAIN, 115V
0052119	PUMP, DRAIN, CAP
0052115	PUMP, DRAIN, BLEEDER HOSE
0052116	PUMP, DRAIN, HOSE TO SOLENOID
0052117	PUMP, DRAIN, HOSE TO DRAIN BARB/FITTING
0141300	BRACKET, SANITIZER DRIP CUP
0160600	SANITIZER PRESSURE SWITCH
7000111	DOOR SPRING HINGE KIT
0212989	DOOR HINGE SPRING ONLY
7000104	START SWITCH CONV. KIT
7000102	SWITCH BOOT RUBBER



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Wally Damlouji,
Shirley Simpson, Paul Damlouji

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Eric Starliper, Chuck Starliper,
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7321 Brooklyn Avenue S.E. Grand Rapids, MI 49508 616/698-9693 Fax: 616/554-3638 Phillip Stiefel

1500 Southlawn Wyoming, MI 49509 616/249-9759 Fax: 616/249-9759 Bill Stiefel Jr.

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> 1213 32nd Avenue Gulfport, MS 39501 601/863-1038 Fax: 228/863-6191 Mark Damlouii

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Madison Avenue Marketing 68 Park Charles Boulevard N. St. Peters, MO 63376 314/939-4842 Fax: 314/928-7299 Jim Connell, CFSP; Glenn Kourik

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Bromley Parts & Service 806 Izard Street Little Rock, AR 72201 501/374-0281 800/482-9269

CALIFORNIA:

P & D Appliance Service 100 South Linden Avenue S. San Francisco, CA 94080 415/861-1414 800/424-1414

P & D Appliance Service 4220-C Roseville Road N. Highlands, CA 95660 916/974-2772 800/824-7219

Barkers Food Machinery
Service

5367 Second Street Inwindale, CA 91706 818/960-9390 800/258-6999

GCS Service, Inc 946 East 12th Street Los Angeles, CA 90021 213/749-7785 800/327-1433

GCS Service, Inc 9030 Kenamar Drive Ste 314 San Diego, CA 92121 619/549-8411 800/422-7278

COLORADO:

GCS Service, Inc 10525 East 40th Avenue Ste. 206 Denver, CO 80239 303/371-9054 800/972-5314

Metro Appliance Service 1640 S. Broadway Denver, CO 80210 303/778-1126 800/525-3532

CONNECTICUT:

GCS Service, Inc 292 Murphy Road Hartford, CT 06114 203/549-5575 800/523-7901 (CT only) 800/723-1562 (MA only)

DELAWARE:

Food Service Equipment 2101 Parkway South Broomall, PA 19008 610/356-6900

FLORIDA:

Commercial Appliance 8416 Laurel Fair Circle Building 6 Suite 114 Tampa, FL 33610 813/663-0313 800/282-4718

GCS Service, Inc 3373 NW 168th Street Miami, FL 33056 305/621-6666 800/766-8966

GCS Service, Inc 4303 Vineland Road Ste. F11 Orlando, FL 32811 407/338-7322 800/338-7322

GEORGIA:

Southeastern Restaurant Svc. 2200 Norcross Parkway Suite 210 Norcross, GA 30071 404/446-6177 800/235-6516

HAWAII:

Food Equipment Parts & Service Co. 300 Puuhale Road Honolulu, HI 96819 808/847-4871

IDAHO:

Restaurant Appliance Service 7219 Roosevelt Way NE Seattle, WA 98115 206/524-8200 800/433-9390

Ron's Service 703 E. 44th Street Ste. 10 Garden City, ID 83714 208/375-4073

ILLINOIS:

Cones Repair Service 2408 40th Avenue Moline, IL 61265 309/797-5323 800/716-7070

Eichenauer Services 130 S. Oakland Street Decatur, IL 62522 217/429-4229

GCS Service, Inc 696 Larch Avenue Elmhurst, IL 60126 708/941-7800

INDIANA:

Commercial Parts & Service 5310 E. 25th Street Indianapolis, IN 46218 317/545-9655 800/727-8710

IOWA:

J.L. Tucker Company 815 N. 19th Street Omaha, NE 68102 402/345-7400

KANSAS:

GCS Service, Inc 2213 Riverfront Drive Kansas City, MO 64120 816/472-6477 800/229-6477

KENTUCKY:

Certified Service Center 4946-50 Paddock Road Cincinnati, OH 45237 513/242-3139 800/543-2060

LOUISIANA:

Bana Parts Inc 1501 Kueble Street Harahan, LA 70123 504/734-0076 800/832-7543

MAINE:

Ace Service Co. 95 Hampton Avenue Needham, MA 02194 617/449-4220

Massachusetts Restaurant Supply

34 South Street Somerville, MA 02143 617/868-1930

MARYLAND:

Electric Motor Repair 700 East 25th Street Baltimore, MD 21218 410/467-8080 800/879-4994

Electric Motor Repair 106 Williamsport Circle Salisbury, MD 21801 410/543-8080

Electric Motor Repair 2626 Pittman Drive Silver Spring, MD 20910 301/588-8080

MASSACHUSETTS:

Ace Service Co. 95 Hampton Avenue Needham, MA 02194 617/449-4220

Massachusetts Restaurant Supply

34 South Street Somerville, MA 02143 617/868-1930

GCS Service, Inc 180 Second Street Chelsea, MA 02150 617/889-9393 800/225-1155

MICHIGAN:

Jackson Dishwasher Service 3980 Benstein Road Commerce Twshp, MI 48382 248/363-4159 800/332-4053

MINNESOTA:

Metro Appliance Service 10911 W. Highway 55 Minneapolis, MN 55441 612/546-4221 800/345-4221

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PENNSYLVANIA:

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Lionville, PA 19353 610/363-5688 Fax: 610/363-6746

Eric Starliper, Chuck Starliper, Debbie McCormack, David Basch

Western:

Counties west of and including Potter, Clinton, Centre, Fulton and Huntington.

Plato, Graf & Associates, Inc. 18 Meadowlark Drive Fairport, NY 14450 716/377-1210 Fax: 716/377-6169 David Graf, David Bonfield

RHODE ISLAND:

Marshall Associates, Inc. 40 Beach Street Manchester, MA 01944 978/526-4911 Fax: 978/526-1128 Gerry Dackert, CFSP: Tom Lawler, CFSP; Kenneth

SOUTH CAROLINA:

Collins Associates, Inc. 430 Crompton Street Charlotte, NC 28273 704/588-8200 Fax: 704/588-8338 David Collins, Joe Benson, Lou Burnoski, Ron Every, Kathy Hughes

SOUTH DAKOTA:

Hollander Company 7260 Washington Ave South Eden Prarie, MN 55344 612/829-5500 Fax: 612/829-9664 Tim Preiner, Jerry LaMere. Mitch Landis

TENNESSEE:

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Master Marketing South 6190 Regency Pkwy, Suite 318 Norcross, GA 30071 770/409-1980 Fax: 770/409-1881 Bruce Marlette, Terry Tanner, Jerry Hennebaul, Walter Rehm. Darren Hawkins, Terri Smith

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325 N. 18th Avenue Laurel, MS 39440 800/821-2597 Fax: 601/649-4406 Wally Damlouji, Shirley Simpson, Paul Damlouji

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Max Pratt Co., Inc. 1522 E. Houston Street Sherman, TX 75090 903/893-7315 Fax: 903/893-4851 Max Pratt, Gary Pratt

3118 Holly Green Kingwood, TX 77339 281/360-5493 Fax: 281/360-0852 Perry Pratt, CFSP; Becky Pratt

UTAH:

Tom Redditt Sales Agency 345 East 4500 South Suite 200 Murray, UT 84107 801/263-1777 Fax: 801/263-7797 Steve Lambert, Debbie Sudbury

VERMONT:

Marshall Associates, Inc. 40 Beach Street Manchester, MA 01944 978/526-4911 Fax: 978/526-1128 Gerry Dackert, CFSP: Tom Lawler, CFSP; Kenneth Lawler

VIRGINIA:

High, Sabatino and Huber, Inc | WYOMING: 10219 Delray Road Glen Alien, VA 23060 804/672-8016 Fax: 804/672-1099 Larry J. Huber

2645 Bernadotte Street Virginia Beach, VA 23456 757/427-9381 Fax: 757/427-5577 Charlie Anthony

10106 Oat Lands Place Fredricksburg, VA 22408 540/898-6072 Fax: 540/891-2228 Harold Spotts

WASHINGTON:

Performance Reps. N.W. 9923 S.W. 178th Street P.O. Box 971 Vashon, WA 98070 206/463-6565 Fax: 206/463-3455 Don Cunningham, Mike Cunningham, Greg Stoffer, Joyce Smith, Jeff Cunningham, Gert Cunningham

WEST VIRGINIA:

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Kingdom of Saudi Arabia, United Arab Emirates, Egypt, Jordan, Lebanon, Syria and Qatar Al Salem Industrial Kitchens P.O. Box 3143 Jeddah-21471 Saudi Arabia 011-966-2-663-7090 Fax: 011-966-2-663-6807

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JONES-McLEOD APPLIANCE

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

JONES-McLEOD APPLIANCE

854 LAKESIDE DRIVE MOBILE, AL 36693 (334) 666-7278 800-237-9859 FAX: (334) 661-0223

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RESTAURANT APPLIANCE SER-VICE

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<u>ARIZONA</u>

AUTHORIZED COMMERCIAL FOOD EQMT. SVC

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GCS SERVICE INC. #78

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

ARKANSAS

BROMLEY PARTS & SVC

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

COMMERCIAL PARTS & SVC.

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

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

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

GCS SERVICE INC. #24

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

GCS SERVICE INC. #52

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

GCS SERVICE INC. #84

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

P & D APPLIANCE SVC

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

P & D APPLIANCE

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

COLORADO

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

HAWKINS COMMERCIAL APPLIANCE SERVICE

300 S. WYANDOT STREET ENGLEWOOD, CO 80110 (303) 781-5548 800-624-2117 FAX: (303) 761-8861

METRO APPLIANCE SERVICE

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

CONNECTICUT

GCS SERVICE INC. #06 302 MURPHY ROAD HARTFORD, CT 06114 (860) 549-5575 800-423-1562

FAX: (860) 527-6355 hartford@gcssvc.com

DELAWARE

ELMER SCHULTZ SERVICE

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

EMR SERVICE DIVISION

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

FOOD SERVICE EQMT.

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

GCS SERVICE INC. #44

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

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COMMERCIAL APPLIANCE SERVICE

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GCS SERVICE INC #15

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

GCS SERVICE INC #14

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

GCS SERVICE INC #13

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

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GCS SERVICE INC #16

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SOUTHEASTERN RESTAURANT SVC.

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WHALEY FOODSERVICE REPAIRS

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FOOD EQMT. PARTS & SERVICE CO.

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IDAHO

RESTAURANT APPLIANCE SVC.

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RON'S SERVICE

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ILLINOIS

CONES REPAIR SVC.

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

EICHENAUER SERVICES INC.

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

GCS SERVICE INC. #12

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

GCS SERVICE INC. #80

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

INDIANA

GCS SERVICE INC.

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

IOWA

GOODWIN-TUCKER GROUP

3509 DELAWARE AVENUE DES MOINES, IA 50313 (515) 262-9308 800-372-6066 FAX: (515) 262-2936 goodwintuc@aol.com

CONES REPAIR SVC.

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

KANSAS

GCS SERVICE INC. #82

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

KENTUCKY

CERTIFIED SERVICE CENTER

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

CERTIFIED SERVICE CENTER

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

GCS SERVICE INC.

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

GCS SERVICE INC.

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

LOUISIANA

BANA PARTS INC.

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

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GCS SERVICE INC. #09

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MASSACHUSETTS RESTAURANT SUPPLY

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

NORTHERN CROWN SERVICES, INC.

225 INDUSTRIAL WAY PORTLAND, ME 04103 (207) 797-7333 (800) 696-7560 FAX: (207) 696-1128 steve@northerncrownservices.com or richard@northerncrownservices.com

MARYLAND

EMR SERVICE DIVISION

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

EMR SERVICE DIVISION

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

EMR SERVICE DIVISION

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

GCS SERVICE INC. #07

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

MASSACHUSETTS

ACE SERVICE CO.

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

MASSACHUSETTS

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

GCS SERVICE INC. #09

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GCS SERVICE INC. #06

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

MICHIGAN

GCS SERVICE INC. #20

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

JACKSON SERVICE COMPANY

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

GCS SERVICE INC. #21

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

MINNESOTA

GCS SERVICE INC.

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

MISSISSIPPI

COMMERCIAL PARTS & SVC. 5755 GALLANT DRIVE JACKSON, MS 39206 (601) 956-7800

800-274-5954 FAX: (601) 956-1200

COMMERCIAL PARTS & SVC.

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

MISSOURI

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6107 CONNECTICUT KANSAS CITY, MO 64120 (816) 920-5999 800-229-6477 FAX: (816) 920-7387 kansas city@gcssvc.com

GCS SERVICE INC. #80

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KAMMERLIN PARTS & SVC.

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MONTANA:

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NEBRASKA

GOODWIN - TUCKER GROUP

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

NEVADA:

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GCS SERVICE INC. #77

3585 EAST PATRICK LANE **SUITE 1000** LAS VEGAS, NV 89102 (702) 450-3495 800-500-9060 FAX: (702) 450-3491 las vegas@gcssvc.com

NEW HAMPSHIRE

GCS SERVICE INC. #09

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ACE SERVICE CO.

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

MASSACHUSETTS RESTAU-RANT SUPPLY

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

NEW JERSEY:

FOOD SERVICE EQMT.

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GCS SERVICE INC. #2

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

GCS SERVICE INC. #44

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

JACKSON FASPRAY SVC.

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DUFFY'S EQUIPMENT SVC.

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

GCS SERVICE INC. #01

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

JACKSON FASPRAY SVC.

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NORTHERN PARTS & SVC.

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

NORTH CAROLINA

WHALEY FOODSERVICE

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

WHALEY FOODSERVICE REPAIRS

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

WHALEY FOODSERVICE **REPAIRS**

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

WHALEY FOODSERVICE **REPAIRS**

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

NORTH DAKOTA

GCS SERVICE INC.

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

OHIO

CERTIFIED SERVICE CENTER

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

COMMERCIAL PARTS & SVC. OF COLUMBUS

1150 WEST MOUND STREET COLUMBUS, OH 43223 (614) 221-0057 800-837-8327 FAX: (614) 221-3622

GCS SERVICE INC.

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

ELECTRICAL APPLIANCE REPAIR SVC.

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

<u>OKLAHOMA</u>

HAGAR RESTAURANT EQMT. 1229 W MAIN STREET

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

KRUEGER INC.

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

OREGON

RON'S SERVICE

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

PENNSYLVANIA

A.I.S. COMMERCIAL PARTS & SERVICE

1816 WEST 26TH STREET ERIE, PA 16508 (814) 456-3732 800-332-3732 FAX: (814) 452-4843 aiserie@aol.com

AFS-AUTHORIZED FACTORY SVC. INC.

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

ELMER SCHULTZ SVC.

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

FOOD SERVICE EQMT.

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

GCS SERVICE INC. #44

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

GCS SERVICE INC. #44

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

GCS SERVICE INC. #48

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K & D PARTS AND SERVICE CO.

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

RHODE ISLAND

GCS SERVICE INC. #09

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SOUTH CAROLINA

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WHALEY FOODSERVICE REPAIRS

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WHALEY FOODSERVICE REPAIRS

1406-C COMMERCE PL. MYRTLE BEACH, SC 29577 (843) 626-1866 FAX: (843) 626-2632 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS

4740-A FRANCHISE STREET N. CHARLESTON, SC 29418 (843) 760-2110 FAX: (843) 760-2255 info@whaleyfoodservice.com

SOUTH DAKOTA

GCS SERVICE INC.

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COMMERCIAL PARTS & SVC.

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

COMMERCIAL APPLIANCE SVC.

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

COMMERCIAL PARTS & SVC.

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

TEXAS

ARMSTRONG REPAIR CENTER

5110 GLENMOUNT DRIVE HOUSTON, TX 77081 (713) 666-7100 800-392-5325 FAX: (713) 661-0520 gm@armstrongrepair.com

COMMERCIAL KITCHEN REPAIR CO.

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GCS SERVICE INC. #90

10850 SANDEN DRIVE DALLAS, TX 75238-5325 (972) 484-2954 800-442-5026 FAX: (972) 484-2531 dallas@gcssvc.com

GCS SERVICE INC. #88

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

STOVE PARTS SUPPLY CO.

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

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LA MONICA'S RESTAURANT EQMT. SVC.

6182 SOUTH STRATLER AVENUE MURRAY, UT 84107 (801) 263-3221 800-527-2561 FAX: (801) 263-3229 lamonica81@aol.com

VERMONT

AUTHORIZED APPLIANCE SER-VICENTER OF VERMONT

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

NORTHERN PARTS & SVC.

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

GCS SERVICE INC. #09

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

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

GCS SERVICE INC. #07

2660 PITTMAN DRIVE SILVER SPRING, MD 20910 (301) 585-7550(DC) (410) 792-0388(BALT) 800-638-7278 FAX: (301)495-4410 dc_baltimore@gcssvc.com

GCS SERVICE INC. #18

2421 GRENOBLE RD. RICHMOND, VA 23294 (804) 672-1700 800-899-5949 FAX: (804) 672-2888 richmond@gcssvc.com

GCS SERVICE INC. #18

5760 NORTHAMPTON BLVD. STE 106 VIRGINIA BEACH, VA 23455 (757) 464-3500 800-476-4278 FAX: (757) 464-4106 virginia_beach@gcssvc.com

<u>WASHINGTON</u>

GCS SERVICE INC.

6114 SIXTH AVENUE SOUTH SEATTLE, WA 98108 (206) 763-0353 800-211-4274 FAX: (206) 763-5943

RESTAURANT APPLIANCE SERVICE

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

WEST VIRGINIA

AFS-AUTHORIZED FACTORY SVC INC.

RT.-1 BOX 288 S. CHARLESTON, WV 25312 (304) 344-8225 800-654-4606 FAX: (304) 344-8248

WISCONSIN

APPLIANCE SERVICE CENTER, INC.

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

APPLIANCE SERVICE CENTER. INC.

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

APPLIANCE SERVICE CENTER

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

WYOMING

METRO APPLIANCE SERVICE

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

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GLOBAL PARTS AND SUPPLY

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H.D. SHELDON AND CO

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

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1177 KAMATO ROAD MISSISSAUGA, ONTARIO

L4W 1X4 SALES (905) 206-8380

(905) 624-1419 FAX: (905) 624-1851

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