

SERIES JP-24 DISHWASHERS MODELS JP-24/F, JP-24B/BF, JP-24LT/LTF

**HOT WATER OR CHEMICAL SANITIZING
UNDERCOUNTER DISHMACHINE**

INSTALLATION AND OPERATION

INCLUDES:

- Warranty Policy
- Operating Instructions
- Description of Components
- Troubleshooting Guide
- Installation Requirements
- Basic Functions of Dishwasher
- Maintenance and Care
- Wiring Diagrams

**WORLD HEADQUARTERS & MANUFACTURING OPERATIONS
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Jackson
MISC Inc.

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BEFORE CONNECTING, OPERATING OR ADJUSTING THIS DISHWASHER, PLEASE READ THIS MANUAL CAREFULLY TO FAMILIARIZE YOURSELF WITH YOUR JACKSON DISHWASHER AND ITS PROPER OPERATION.

THIS MANUAL CONTAINS IMPORTANT OPERATING, SAFETY AND MAINTENANCE INFORMATION ON YOUR DISHWASHER. YOU MUST FOLLOW THE INSTRUCTIONS GIVEN IN THIS MANUAL TO ENSURE THAT YOUR WARRANTY REMAINS IN FORCE.

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

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Dishwasher Certification



The UL mark on this dishwasher indicates this product is listed with the Underwriters Laboratory. This agency conducts tests and evaluations of product for compliance to UL Standards for Safety. All Jackson Dishwashers meet or exceed these standards.



The NSF seal on this dishwasher indicates this product meets or exceeds all standards and requirements for dishwashing machines by the National Sanitation Foundation. The NSF seal is widely recognized as a sign that the product to which it is affixed complies with all public health and safety codes for Foodservice Equipment.

Dishwasher Record

FOR FUTURE USE, PLEASE RECORD THE DISHWASHER INFORMATION IN THE SPACES BELOW:

MODEL NUMBER _____ DEALER _____
VOLTAGE/PHASE _____ DATE INSTALLED . _____
SERIAL NUMBER _____ SERVICE AGENCY. _____

GENERAL

The Installation and Operation Manual covers the installation of the Series JP-24 dishwasher and operating procedures. Please complete all plumbing connections prior to arranging for electrical requirements.

IMPORTANT — PLEASE READ CAREFULLY — NOTE TO ELECTRICAL INSTALLER: THE RINSE HEATER RELAY HAS BEEN TEMPORARILY DISABLED SO THAT THE MACHINE'S INTERNAL BOOSTER TANK CAN FILL WITH WATER BEFORE TURNING ON THE HEATING ELEMENT. A QUALIFIED SERVICEMAN MUST RECONNECT THE WIRE (ORANGE/WHITE) TO THE RINSE HEATER RELAY COIL (TAGGED) AFTER THREE CYCLES OF OPERATION AND THE WASH TANK IS FULL OF WATER. THE CIRCUIT BREAKER FEEDING THE UNIT SHOULD BE TURNED OFF BEFORE DOING THIS.

Once the machine is initially filled, the dishwashing cycle consists of: the machine washes a rack of dishes, drains the wash water, and then rinses with fresh water which remains in the machine to wash the next rack of dishes. During the rinse, detergent and rinse chemical should be injected into the wash water.

MACHINE NOMENCLATURE

Hot-water sanitizing Models JP-24/F and JP-24B/F must have a minimum 180 Deg. F rinse water temperature at 20 PSI +/-5 PSI water flow pressure to assure proper sanitization of ware.

The JP-24 series dishwasher is not supplied with chemical dispenser pumps for dispensing detergent, rinse additive or sanitizer (JP-24LT/F). Contact an authorized detergent representative for information about a chemical dispenser.

Low-temperature chemical sanitizing Model JP-24LT/F requires a minimum of 50 PPM of 5.25 % sodium hypochlorite (liquid bleach) be injected in the final rinse line during the rinse. Do not operate dishwasher as a low-temperature chemical sanitizing machine without a properly installed, N.S.F. recognized chemical dispenser.

The "B" designation in the model number indicates the unit has a built-in hot water booster tank, requiring a 140 Deg. F. hot water supply. Units without the "B" require a 180 Deg. F. hot water supply. The "LT" designation indicates a low-temperature model requiring a minimum 120 Deg. F. and 140 Deg. F. maximum hot water supply.

Free standing units not installed under a countertop will require atop and side panels, indicated by a "F" designation in the model number.

IMPORTANT SAFETY INSTRUCTIONS

Please read all instructions before using this dishwasher. Safety precautions in this manual are preceded by the words "DANGER", "WARNING" or "CAUTION" and "NOTE" are very important. DANGER is used to indicate the presence of a hazard which will cause severe personal injury, death or substantial property damage if the statement is ignored. WARNING is used to indicate the presence of a hazard which can cause severe personal injury, death or substantial property damage if the statement is ignored. CAUTION is used to indicate the presence of a hazard which will or can cause minor personal injury or property damage if the statement is ignored. NOTE is used to notify personnel of installation, operations, or maintenance information which is important, but not hazard related.

NATIONWIDE MAINTENANCE AND REPAIR CENTERS

If repairs are required, please call one of the Jackson Maintenance & Repair Centers from the list provided on the rear cover of this manual. Your Jackson Maintenance & Repair Center is fully equipped to perform expert service on your dishwasher and will be happy to assist you with any questions about your dishwasher. If needed, a service manual for your dishwasher may be purchased through this center.

ORDERING REPLACEMENT PARTS

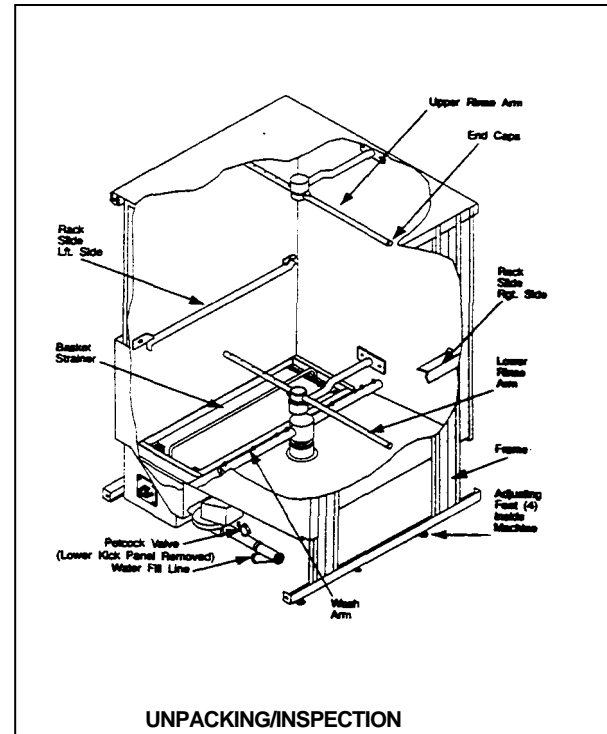
When replacement parts are required, call the Maintenance & Repair Center closest to you and give them the model and serial number of your dishwasher and the part number or description of the part you wish to order.

UNPACKING/INSPECTION OF DISHWASHER

Before any connections are made, visually check the entire machine for any possible shipping damage or missing parts. 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 bolts holding wooden skid to machine.
3. The following parts should be inside machine: One (1) wash spray arm, two (2) rinse spray arms— upper and lower, four (4) adjusting feet, one (1) Instruction Manual, two (2) dish racks, one (1) pan strainer, one (1) warranty registration card, one (1) service network map.
4. Remove the tape from around the wash tank pan strainer, wash and rinse arms.
5. Inspect and check the following parts:
 - a. Upper and lower rinse arms: check and make sure they rotate freely and remove by unscrewing. Check for end caps in each end of arm and tighten if needed.
 - b. Lower wash arm: check same as rinse arm.
 - c. Rack slides: check to see if they are tight and rack slides into machine properly.



CONCEALED DAMAGE OR MISSING PARTS

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

The dishwasher has been thoroughly inspected and carefully packed before leaving our warehouse.

IMPORTANT: Inspect the dishwasher for any of the following damage conditions before installation:

1. The door does not close firmly against the hood because the door is warped or the hinge is damaged.
2. If there is any visible damage to exterior or interior of the dishwasher.

If any of the above conditions exist, DO NOT OPERATE THE DISHWASHER.

Concealed loss or damage means loss or damage which does not become apparent until **the dishwasher 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 the 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 the dishwasher was purchased immediately.

If it is discovered that there are missing parts such as: strainers, spray arms, rinse arms, service manual or racks, please notify the Dealer where the dishwasher was purchased.

VENTILATION OF DISHWASHER

The dishwasher should be located with provision for venting into adequate air conditioning, exhaust hood or ventilation system. This is essential to permit efficient removal of the steam exhaust. Make certain the exhaust system is an acceptable system in accordance with proper ventilation codes and standards.

INSTALLATION PROCEDURES

Procedure 1: INSTALLATION OF TOP AND SIDES ON MODELS WITH "F" DESIGNATION

Before installing machine or placing machine into a permanent location, install the top and side panels. Rear lower enclosure panel is installed by factory.

Steps:

1. Install top and side panels with hardware supplied (taped) with panels.
2. Insert lip of top and side panels under front flange to secure. Note: Apply a bead of silicone sealer along length of lip before inserting under front flange.

Procedure 2: INSTALLATION OF DISHWASHER UNDER STAINLESS STEEL DISHTABLE

Steps:

1. Position dishwasher under dishtable in permanent location and squarely against the guide bracket on dishtable.
2. Fasten guide bracket on dishtable to side panel of dishwasher by drilling hole in outer panel only.

CAUTION: Install stop on drill to prevent drilling through interior wall of dishwasher.

INSTALLATION OF DISHWASHER UNDER POROUS COUNTER-TOP

If dishwasher is installed under a porous counter-top, it is the installer's responsibility to provide protection of material from steam damage.

Procedure 3: LEVELING OF DISHWASHER

The dishwasher must be level before any connections are made.

Steps:

1. Install all four (4) leveling feet into mating threaded fasteners at each corner of machine. Feet are supplied with machine.
2. Turn leveling feet in or out to adjust machine square and to proper height. Adjust left to right and front to back,

Procedure 4: PUMPED DRAIN (PRESSURE) DRAIN CONNECTION TO INDIRECT DRAIN LINE

Dishwasher has a pumped (pressure) drain capable of pumping waste water to a height of 24 inches from floor to the kitchen's drain system. The dishwasher is supplied with a 8-foot long drain hose that extends from the right rear side of machine. Drain hose is one (1) inch inside diameter.

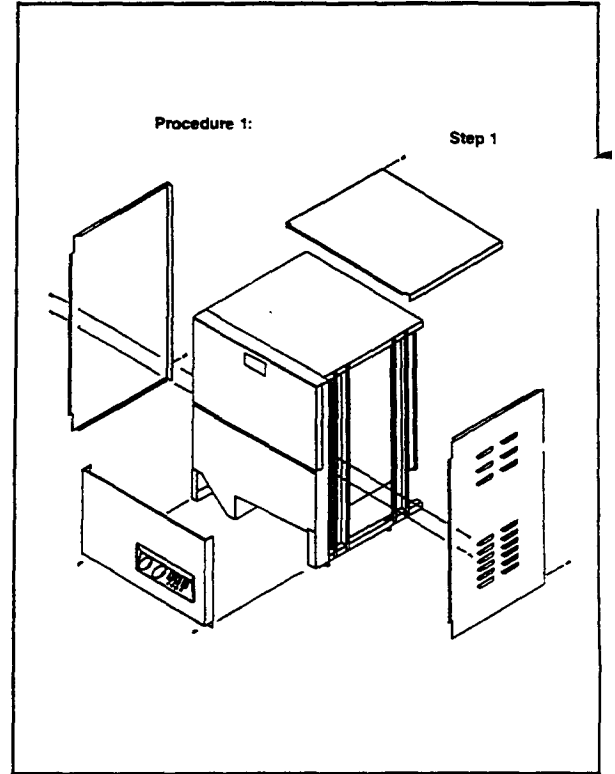
WASTE PIPE MUST BE ABLE TO HANDLE FLOW FROM THE PRESSURE DRAIN CAPABLE OF PUMPING TWELVE (12) GALLONS PER MINUTE.

MOST PLUMBING CODES REQUIRE INDIRECT DRAIN LINE TO HAVE AIR GAP. ALL PLUMBING CONNECTIONS MUST COMPLY WITH ALL SANITARY, SAFETY AND PLUMBING CODES.

Steps:

1. Install drain hose to waste line and secure with clamp. NOTE: Install drain hose to 1 1/2 (minimum pipe size) "P" trap.

NOTE: To aid in easy removal of machine from wall or undercounter for servicing — leave sufficient drain hose looped at rear of machine to move machine out for servicing.



CAUTION: If direct floor drain is under or near machine, make certain that adequate protection is made to prevent water splatter or steam exhaust from contaminating or damaging machine. THIS IS THE RESPONSIBILITY OF THE INSTALLER.

Procedure 5: CONNECTION FOR HOT WATER SUPPLY

Water supply line must have capacity to supply 30.0 gallons per hour at 15-25 PSI flow pressure to the dishwasher.

Model JP-24B/BF is equipped with an internal booster heater tank ("B" model designation) to boost the regularly available 140 degree F. hot water up to 180 degree F. for the required sanitizing final rinse. Dishwasher will require a minimum 140 degree F. hot water supply.

Model JP-24/F does not have an internal booster and will require a minimum 180 degree F. hot water supply.

Model JP-24LT7F is a low-temperature chemical sanitizing machine and will require a 120 degree F. min. (factory recommended 140 F.) hot water supply.

INCOMING HOT WATER SERVICE CONNECTION (SUPPLIED BY CUSTOMER) MUST BE A 1/2 INCH PIPE SIZE MINIMUM WITH SHUT-OFF VALVE.

Procedure 5: CONNECTION FOR HOT WATER SUPPLY LINE

Steps:

1. Connect water supply line to dishwasher using soft copper tubing or flexible copper tubing. Loop sufficient length of tubing at rear of machine so it can be moved for servicing.
2. Install 1/2" flexible fill hose between service connection and dishwasher 1/2" line strainer (female) behind lower kick panel. Hot water service connection must have 1/2" male hose fitting.

FLUSH HOT WATER SUPPLY LINE FOR DEBRIS BEFORE CONNECTING TO DISHWASHER. DO NOT TAP SUPPLY LINE FOR OTHER SERVICE — THIS WILL DROP THE REQUIRED FLOW PRESSURE FOR DISHWASHER FINAL RINSE.

WATER FLOW PRESSURE REQUIREMENTS

The dishwasher requires 20 PSI +/-5 PSI flow pressure. Do not confuse static pressure with flow pressure.

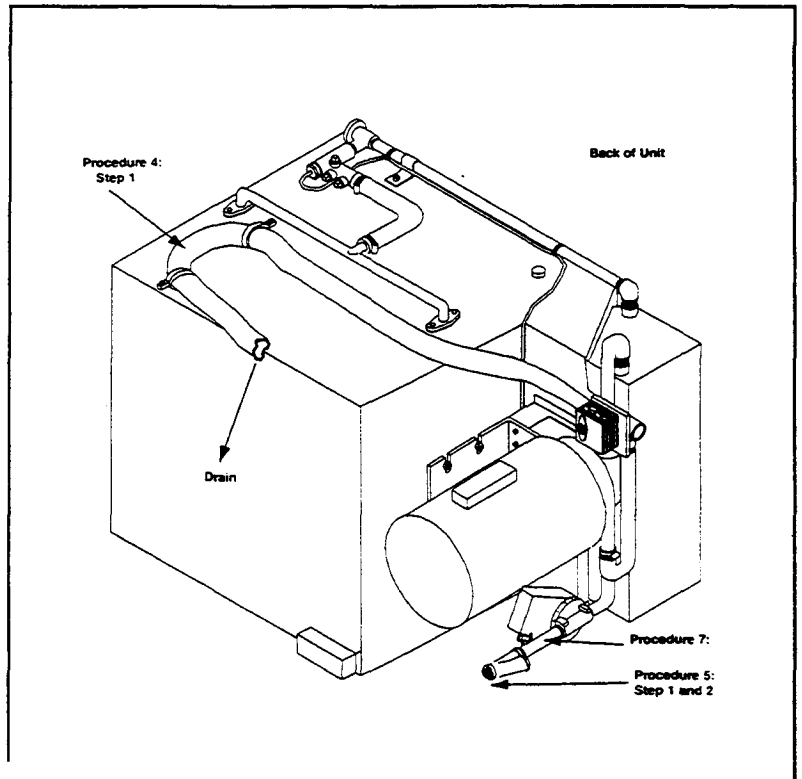
Flow pressure is the pressure in the final rinse line when the rinse valve is open, and machine is rinsing. Static pressure is line pressure with no water flowing, all valves and service closed.

Procedure 6: CHECKING FOR PROPER WATER LEVEL

Step:

1. Run machine through several cycles. The proper water level is reached when water touches the screen portion of the dishwasher's basket strainer each cycle. If the water level is higher, install pressure reducing valve and adjust valve to 20 PSI until proper water level is achieved. Pressures above 25 PSI will cause rinse spray to fog or atomize. If water level is lower than basket strainer, you must have low water pressure, check with plumber to see if pressure can be corrected.

WARNING: Dishwasher will not clean or sanitize ware properly without proper water pressure and temperature.



Procedure 7: INSTALLATION OF PRESSURE GAUGE

A pressure gauge is not supplied with the dishwasher. A petcock valve is provided in the incoming water line at the fill valve for a pressure gauge. To verify proper water pressure, keep valve closed until reading the pressure, then close valve.

Procedure 8: ELECTRICAL REQUIREMENTS AND CONNECTIONS

IMPORTANT — PLEASE READ CAREFULLY — NOTE TO ELECTRICAL INSTALLER: THE RINSE HEATER RELAY HAS BEEN TEMPORARILY DISABLED SO THAT THE MACHINE'S INTERNAL BOOSTER TANK CAN FILL WITH WATER BEFORE TURNING ON THE HEATING ELEMENT. A QUALIFIED SERVICEMAN MUST RECONNECT THE WIRE (ORANGE/WHITE) TO THE RINSE HEATER RELAY COIL (TAGGED) AFTER THREE CYCLES OF OPERATION AND THE WASH TANK IS FULL OF WATER. THE CIRCUIT BREAKER FEEDING THE UNIT SHOULD BE TURNED OFF BEFORE DOING THIS.

WARNING: ALL FIELD WIRING CONNECTIONS MUST CONFORM TO THE LOCAL AND NATIONAL ELECTRICAL CODES. INSTALL PROPER CIRCUIT BREAKER, WIRE AND CONDUIT SIZE. THIS DISHWASHER MUST BE ADEQUATELY AND SAFELY GROUNDED. INJURY OR DEATH MAY OCCUR FROM SHOCK IF MACHINE IS NOT PROPERLY GROUNDED. PRIOR TO INSTALLATION, TEST THE ELECTRICAL SERVICE TO ASSURE THAT IT IS CORRECT WITH THE SPECIFICATIONS ON THE MACHINE DATA PLATE.

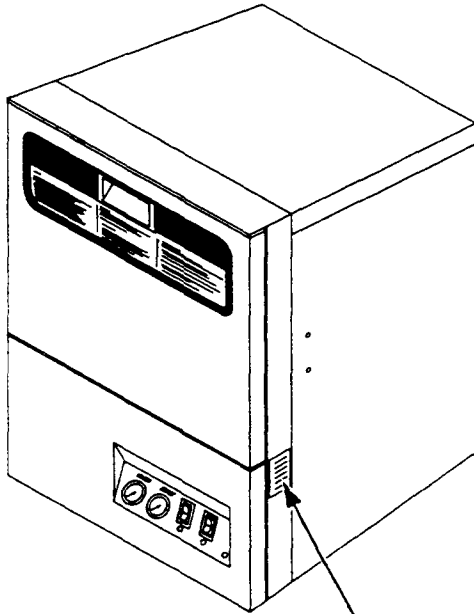
All machines are factory pre-wired for one point connection to the dishwasher terminal block and ground lug. Model JP-24LT/F will be supplied with a plug and cord factory installed to machine.

Steps:

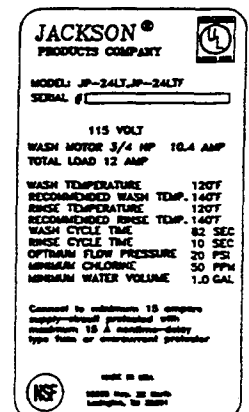
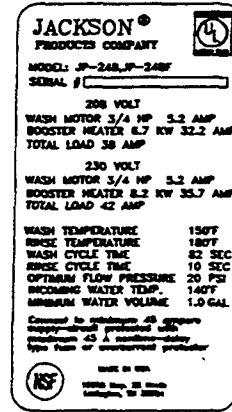
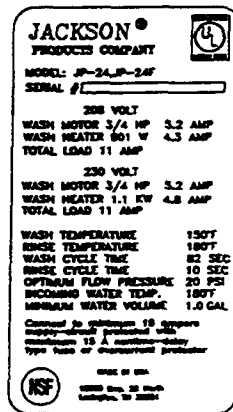
1. Refer to dishwasher electrical data decal located on the right-side of machine for machine voltage and amperage load and serial number.

Procedure 8:

Step 1



Dishwasher Electrical
Data Decal



2. IMPORTANT — PLEASE READ CAREFULLY: BEFORE PROCEEDING TO CONNECT POWER SUPPLY TO MACHINE, MAKE SURE THE ORANGE/WHITE WIRE IS DISCONNECTED FROM THE RINSE HEATER RELAY COIL. WIRE WILL BE TAGGED AND MARKED.

3. REMOVE FRONT LOWER KICK PANEL BY REMOVING TWO SCREWS AT THE BOTTOM CORNERS AND LIFT UP AND AWAY. CHECK TO SEE THAT ORANGE/WHITE WIRE IS DISCONNECTED, IF NOT, DISCONNECT.

4. SET KICK PANEL BACK INTO PLACE — DON'T FASTEN DOWN WITH SCREWS.

5. MODEL JP-24LT/F: Route plug end of cord to mating receptacle (provided by installer) and insert squarely and securely. Other end of plug is factory installed to machine terminal block and is secured in place with a cord grip for strain relief.

IMPORTANT — PLEASE READ CAREFULLY — for personal safety, this dishwasher must be properly grounded. The power cord of this dishwasher (JP-24LT) is equipped with a three-prong grounding plug which mates with a standard three-prong grounding wall receptacle. Have the wall receptacle and circuit checked by a qualified electrician to make sure the receptacle is properly grounded. DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE THIRD (GROUND PRONG FROM THE POWER CORD.

6. MODELS JP-24/F, JP-24B/F: Install conduit from rear of machine to hole directly above machine's terminal block. 7.

Route power wires, L1, L2 and Ground to terminal block.

8. Install power wires, L1,1-2 and Ground to appropriate terminals marked L1, L2 at terminal block. Install ground wire into grounding lug provided. NOTE: It is also recommended that "DE-OX" or similar antioxidation agent be used on all incoming power connections.

WARNING: INSURE ALL WIRING CONNECTIONS TO TERMINAL BLOCK AND GROUND LUG ARE PROPERLY TIGHTENED AND TORQUED ACCORDINGLY.

Procedure 9: CHECK FOR PROPER VOLTAGE

Steps:

1 Apply power to dishwasher. WARNING: CHECK INCOMING POWER AT POWER BLOCK FOR PROPER VOLTAGE PER MACHINE'S ELECTRICAL DATA DECAL. IF APPLICABLE, CHECK VOLTAGE AT L1 AND L2 TO GROUND INDIVIDUALLY TO INSURE NEITHER IS CONNECTED TO A HIGH OR WILD LEG.

2. Turn off power switch on machine and at service breaker. Mark breaker for dishwasher and advise proper personnel

CAUTION: DO NOT APPLY POWER TO MACHINE OR OPERATE MACHINE AT THIS TIME UNLESS PLUMBING (DRAIN) AND WATER SUPPLY CONNECTIONS HAVE BEEN MADE.

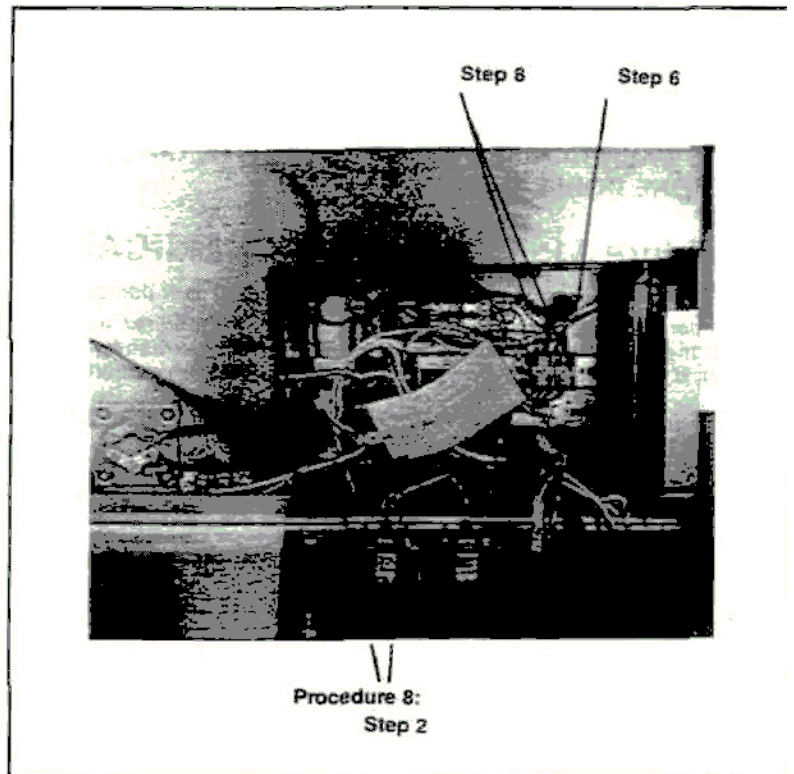
Procedure 10: TO FILL DISHWASHER WITH WATER

Steps:

1. Open incoming water shut-off valve to machine and place the "ON/FILL" switch to the "ON" position. Machine should fill up with water.

2. Open and close door to start a dishwashing cycle. Run machine through several complete wash and rinse cycles.

3. When machine's wash tank is full of water up to screen portion of basket strainer, proceed as follows:



4. IMPORTANT — PLEASE READ CAREFULLY — NOTE TO ELECTRICAL INSTALLER: THE RINSE HEATER RELAY HAS BEEN TEMPORARILY DISABLED SO THAT THE MACHINE'S INTERNAL BOOSTER TANK CAN FILL WITH WATER BEFORE TURNING ON THE HEATING ELEMENT. A QUALIFIED SERVICEMAN MUST RECONNECT THE WIRE (ORANGE/WHITE) TO THE RINSE HEATER RELAY COIL (TAGGED) AFTER THREE CYCLES OF OPERATION AND THE WASH TANK IS FULL OF WATER. THE CIRCUIT BREAKER FEEDING THE UNIT SHOULD BE TURNED OFF.) BEFORE DOING THIS.

Procedure 11: TO INSTALL CHEMICAL DISPENSING EQUIPMENT

The JP-24 series dishwasher is not supplied with dispenser pumps for detergent, rinse additive or sanitizer (JP-24LT/F).

Low-temperature chemical sanitizing Model JP-24LT/F requires a minimum of 50 PPM of 5.25% sodium hypochlorite (liquid bleach) be injected in the final rinse line during the rinse. Do not operate dishwasher as a low-temperature chemical sanitizing machine without a properly installed, N.S.F. recognized chemical dispenser. Contact an authorized detergent representative for information about a chemical dispenser.

The dishwasher is a DUMP-AND-FILL type machine that dumps (drains) the wash water after each washing cycle, water added from the fresh water final rinse is used for the next washing cycle.

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.

CAUTION: WHEN USING OR WORKING WITH LIQUID DETERGENT AND SANITIZER (LIQUID BLEACH) USE CAUTION AS IT CAN IRRITATE THE SKIN.

Step 1: DISPENSING EQUIPMENT ELECTRICAL CONNECTION

Power and signal source for detergent, rinse additive and sanitizer (JP-24LT/F) dispensing equipment are provided as follows:

DETERGENT SIGNAL — White/Red wire, "L1" signal (line voltage) for detergent dispensing. Detergent dispenses during rinse cycle.

DISPENSER POWER — Red wire, "L2" return (line voltage).

DISPENSER POWER — Green/White wire, "L1" power (line voltage) during dishwashing cycle.

RINSE AGENT/ SANITIZER SIGNAL — Blue wire, "L1" signal (line voltage) during rinse cycle for dispensing rinse agent and sanitized (JP-24LT/F) into final rinse line during rinse.

DISPENSER MAXIMUM AMPERAGE LOAD: LINE VOLTAGE MAXIMUM.

0.5KVA MAX. FUSE-TYPE SAG "SLO-BLO" 2.5A

Procedure 11:

Step 3 and 4

TIMER ADJUSTMENT FOR DETERGENT CONCENTRATION

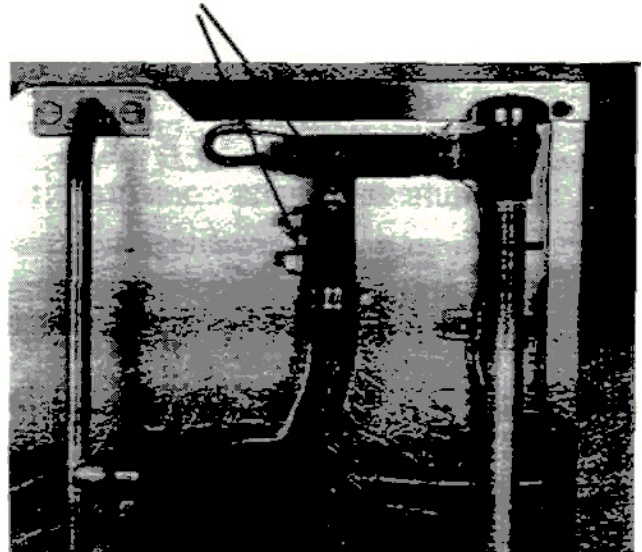
The amount of detergent may need to be increased or decreased depending on water quality and type of detergent. It is factory set to dispense 15 milliliters of detergent into the wash water during the rinse cycle. Consult your detergent representative for adjustment.

Step 2: LIQUID DETERGENT DISPENSING POINT

Liquid detergent will be dispensed into machine from factory supplied hole at rear wall of machine above basket strainer. Remove factory installed plug and install injection fitting for injecting detergent.

Step 3: RINSE ADDITIVE INJECTION — FINAL RINSE LINE

Power and signal source for injecting rinse additive into the final rinse line manifold may be obtained by using a pressure switch in the final rinse line or by connecting in parallel to the rinse/fill solenoid blue wire.



Step 2
(not shown)

Step 4: LOW TEMPERATURE JP-24LT/F SANITIZER INJECTION

WARNING: Low-temperature chemical sanitizing Model JP-24LT/F requires a minimum of 50 PPM of 5.25% sodium hypochlorite (liquid bleach) be injected in the final rinse line during the rinse. Do not operate dishwasher as a low-temperature chemical sanitizing machine without a properly installed, N.S.F. recognized chemical dispenser. Contact an authorized detergent representative for information about a dispenser.

Follow the same procedure outlined for rinse additive injection to inject sanitizer during the final rinse.

WARNING: DO NOT PRE-MIX RINSE ADDITIVE AND SODIUM HYPOCHLORITE (LIQUID BLEACH). CERTAIN MATERIAL SUCH AS SILVER PLATE, ALUMINUM AND PEWTER ARE ATTACHED BY SODIUM HYPOCHLORITE (LIQUID BLEACH).

DISHWASHER OPERATING INSTRUCTIONS

INITIAL START-UP:

1. Open door and install basket strainer into wash tank.
2. Install rinse spray arm assembly into fitting at upper wash chamber.
3. Install wash spray arm assembly into fitting at lower wash chamber.
4. Install lower rinse spray arm assembly feed pipe fitting.
5. Install detergent, rinse additive and sanitizer (JP-24LT/F Only) pickup (suction) tube into chemical bottle.

TO FILL THE UNIT AT START OF DAY

6. Close door and place power switch in On/Fill position and place Cycle switch in Auto position. Red power indicator light will light to indicate machine has power turned on and the green light will come on to indicate that the machine is automatically filling with water. Proper water level will be achieved when water touches the bottom of basket strainer.

NOTE: CYCLE SWITCH MUST BE IN THE AUTO POSITION TO FILL MACHINE. MACHINE WILL NOT FILL IN THE MANUAL POSITION AND WOULD CAUSE PUMP MOTOR TO RUN WITHOUT WATER WHICH CAN DAMAGE PUMP SEAL.

7. After the wash tank is full of water, the green fill light will go out. Open the door, the amber cycle light will go out to indicate that the machine is reset for another dishwashing cycle.

REQUIRED OPERATING TEMPERATURES

8. Close the door and the machine will automatically go through the complete wash, drain and rinse cycles. The amber cycle light will remain on during the complete dishwashing cycle and go out at the completion of the cycle. NOTE: Initially, at start-up, run machine thru several cycles to reach operating temperatures of 150 degree F. wash and 180 degree F. rinse.

Detergent, rinse additive and sanitizer (JP-24LT/F Only) will dispense automatically during dishwashing cycle.

9. When dishwasher has reached operating temperatures, place rack of soiled ware into machine and close door.

STANDBY MODE OF OPERATION

10. Placing the Cycle switch to the center "Off" position will allow the door to be opened and closed without starting an automatic cycle. Machine will still maintain proper temperatures in this position.

DOOR SAFETY SWITCH OPERATION

11. If door is opened during a dishwashing cycle, machine will stop the cycle until door is closed. When door is closed, cycle will resume where it was stopped.

TO DRAIN THE MACHINE AT END OF DAY/MEALTIME

12. The dishwasher Cycle switch must be in the Auto position in order to drain machine. Machine will not drain in the Manual mode.
 - a. Close the door and start a dishwashing cycle without a rack in the machine.
 - b. Once the cycle has started and the amber cycle light is on, push the Power switch from the On/Fill position to the Off/Drain position. The machine will finish the wash cycle and then drain.
13. Daily or as needed: Clean strainer, wash arms and rinse arms and delime machine.

WARNING: DO NOT OPERATE WASH PUMP WITHOUT WATER IN THE WASH TANK. THIS WILL CAUSE DAMAGE TO PUMP SEAL.

MANUAL WASH

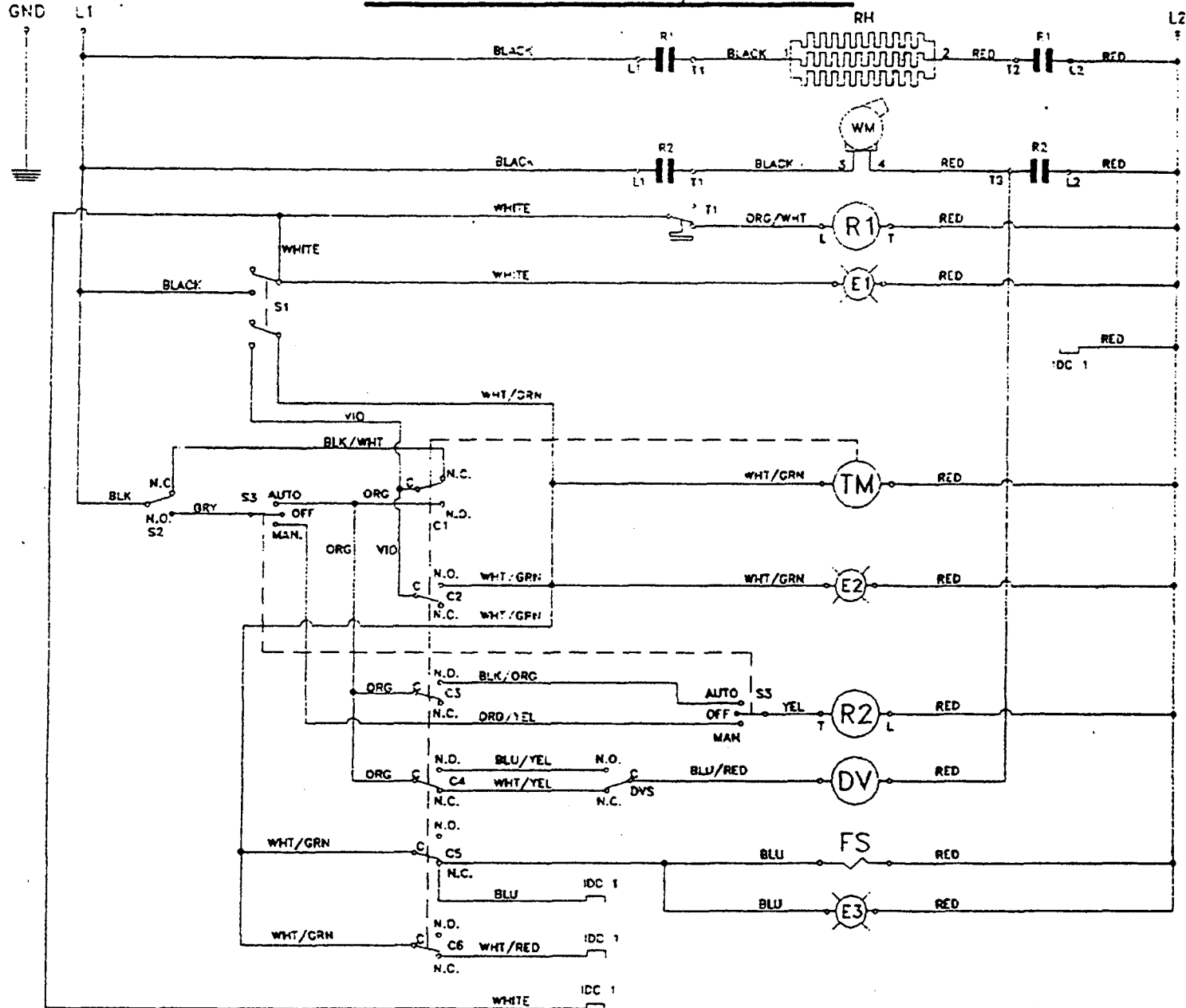
14. Place Cycle switch in the Manual Wash position. In this position, machine will wash indefinitely until switch is placed in Center Off or Auto Cycle position. Detergent will be dispensed in this mode.

DELIMING OF MACHINE

15. Follow Steps to drain machine.
 1. Remove detergent, rinse additive and sanitizer (Model JP-24LT/F) pickup (suction) tubes from chemical bottles or disable dispenser pumps by turning off power to pumps.
 2. Place Power switch to On/Fill position then close and latch door. Allow machine to complete a fill cycle.
 3. Open the door and dispense delimer (follow manufacturer's instructions on product label) into basket strainer. Place Cycle switch in Manual Wash position.
 4. Close and latch the door. The machine will begin to run continuously. Allow the machine to run and delime for 10-15 minutes.
 5. Place the Cycle switch to the Auto position.
 6. Run several normal cycles to completely flush residual deliming solution from the machine.

CAUTION: NEVER LEAVE DELIMER SOLUTION IN THE MACHINE OVERNIGHT OR FOR LONG PERIODS OF TIME (OVER ONE HOUR).

ELECTRICAL DIAGRAM MODEL JP-24B 208/230 VOLT



- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> RINSE TANK HEATER WASH PUMP MOTOR TIMER MOTOR DRAIN VALVE WASH RELAY COIL RINSE HEATER RELAY COIL | <ul style="list-style-type: none"> POWER ON LIGHT CYCLE LIGHT RINSE/FILL LIGHT RINSE HEATER CONTACTS WASH RELAY CONTACTS | <ul style="list-style-type: none"> CYCLE/RESET MICROSWITCH OFF/DRAIN MICROSWITCH WASH MICROSWITCH DRAIN MICROSWITCH FILL MICROSWITCH DETERGENT MICROSWITCH DRAIN VALVE SWITCH | <ul style="list-style-type: none"> ON/FILL-OFF/DRAIN SWITCH DOOR SWITCH AUTO/OFF/MAN. WASH-DELIME SWITCH FILL SOLENOID RINSE HEATER THERMOSTAT |
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TIMING CHART

