TECHNICAL MANUAL

INSTALLATION MANUAL FOR EXPORT UNITS
SERVICE MANUAL FOR DOMESTIC UNITS

FOR JACKSON MODELS:

JPX-300H

JPX-300HC

JPX-300HN

JPX-300L

Jackson™

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March 07, 2007
P/N 7610-002-73-30 (Revision N)

REVISION	REVISION DATE	MADE BY	APPLICABLE ECN	DETAILS
E	04-01-04	MAW	6961, 6977 6940, 6932 6912, 7006	Added 6” M24 Stand Assembly. Converted to new layout. Added note for Rinse Arm Assembly (JPX-300H units only) Added 18” M24 Stand Assembly. Added alternate Top Flat Panel. Added 208-240V/60Hz Timer. Added Splash Shield. Changed thermostat mounting bracket (05700-011-73-72 to 05700-011-81-64)
F	01-26-05	MAW	6962 7068	Corrected rinse plumbing plate #. Changed retaining ring and captive stud. Added JPX-300HC model. Added drain quench system. Added GO*BOX kit. Added Deliming Instructions. Add dimension drawing for JPX-300L. Removed JPX-300L model designation.
G	04-13-05	MAW	N/A	Corrected the wash motor numbers.
H	08-25-05	MAW	7383, 7271 7310, 7404 7332	Replace 04820-300-07-00 vacuum breaker with 04820-003-06-13. Add dimension drawing of the JPX-300HN. Replace 05945-121-44-89 & 05945-002-49-35 timers with 05945-003-02-90 5Min/7cam timer. Replace 05945-002-13-34 timer with 05945-003-02-18. Updated Trouble Shooting Section. Removed JPX-300LP model designation, added JPX-300L.
I	11-15-05	MAW	7231, 7421 7513, 7514 7429, 7552	Change thermostat from 05930-121-71-29 to 05930-510-03-79. Change Diverter Valve Assembly number from 05700-002-23-21 to 6410-012-23-21 & Diverter Valve Assembly 05700-002-23-22 to 06401-022-23-21. Add wash decal 09905-002-97-61 and rinse decal 09905-002-97-62 to the kick plate panel. Change Magnet 05930-002-68-53 to 05930-002-88-42. Add components, instructions and schematics for use with universal timers.
J	01-13-06	MAW	7602	Replaced Relay 05945-002-79-95 with Contactor 05945-002-74-20. Replaced Relay 05945-002-90-51 with Contactor 05945-109-05-69.
K	01-27-06	MAW	7602	Updated Electrical Assembly Drawings.
L	01-30-06	MAW	7602	Updated schematics 09905-003-12-84, 09905-003-12-88, 09905-003-13-84 & 09905-003-13-86 to match relay to contactor change.
M	02-07-06	MAW	7602, 7231	Updated schematic 09905-002-72-28 with relay to contactor change. Add thermostat replacement kit 6401-011-66-55.
N	03-06-06	MAW	7704, 7601 7591, 7614	Updated with new layout. Add Sanisure option. Removed test cock and pressure gauge from JPX-300L plumbing. Added conversion kits for changing plastic switches to stainless steel. Added stainless steel switch assemblies. Corrected terminal block number from 5940-500-08-00 to 5940-500-02-19. Added Door Gasket Kit Installation Instructions. Added individual components for 50 HZ Motor Assembly.
	09-18-06	MAW	N/A	Updated for use with the HTS-11, scale prevention and corrosion control device.
	03-07-07	MAW	7902, 7896	Added tygoprene tubing to peripump assembly, corrected numbers in the Go*Box Kit, moved universal timer box and cover to the kick plate. Added new numbers for wash pump drain hose. Updated pump assembly drawing. Added new numbers for the rinse manifold hoses.

NOMENCLATURE FOR THE MODELS COVERED IN THIS MANUAL

Jackson

JPX-300HN

JPX-300H = High temperature, hot water sanitizing, with a booster tank.
JPX-300HC = High temperature, hot water sanitizing, with a booster tank, and a cycle counter.
JPX-300HN = High temperature, hot water sanitizing, with no booster tank.
JPX-300L = Low temperature with chemical feeder pumps.

Model:_____

Serial No.:_____

Installation Date:_____

Service Rep. Name:_____

Phone No.:_____

Jackson MSC Inc. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

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SECTION 1: SPECIFICATION INFORMATION

SPECIFICATIONS of the JPX-300H/JPX-300HC/JPX-300HN

PERFORMANCE/CAPABILITIES

OPERATING CAPACITY (RACKS/HOUR)

RACKS PER HOUR	30
DISHES PER HOUR	600
GLASSES PER HOUR	600

OPERATING CYCLE (SECONDS)

WASH TIME	82
DRAIN TIME	28
RINSE TIME	10
TOTAL CYCLE TIME (MINUTES)	2

5 MINUTE TIMER OPERATING CYCLE (SECONDS)

WASH TIME	262
DRAIN TIME	28
RINSE TIME	10
TOTAL CYCLE TIME (MINUTES)	5

TANK CAPACITY (LITERS) (GALLONS)

WASH TANK	(21.5)	5.65
RINSE TANK	(11.4)	3

TEMPERATURES

WASH---(MINIMUM)	(65.6°C)	150°F
RINSE---(MINIMUM)	(82.2°C)	180°F

WATER REQUIREMENTS

INLET TEMPERATURE (40°F Rise Booster Heater)	(60°C)	140°F
INLET TEMPERATURE (70°F Rise Booster Heater)	(43.3°C)	110°F
INLET TEMPERATURE (JPX-300HN)	(82.2°C)	180°F
WATER LINE SIZE I.P.S. (MINIMUM)		1/2”
DRAIN LINE SIZE I.P.S. (MINIMUM)		1 1/2”
FLOW PRESSURE P.S.I.		20 ±5

ELECTRICAL REQUIREMENTS

WASH MOTOR HP	3/4

NOTE: Typical Electrical Circuit is based upon (1) 125% of the full amperage load of the machine and (2) typical fixed-trip circuit breaker sizes as listed in the NEC 2002 Edition. Local codes may require more stringent protection than what is displayed here. Always verify with your electrical service contractor that your circuit protection is adequate and meets all applicable national and local codes. These numbers are provided in this manual simply for reference and may change without notice at any given time.

JPX-300H/JPX-300HC:

VOLTS	PH	HZ	RINSE HEATER RATINGS	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	50	8.2KW @ 230V	40 A	50 AMP
208	1	50	10KW @ 230V	47 A	60 AMP
230	1	50	8.2KW @ 230V	47 A	60 AMP
230	1	50	10KW @ 230V	51 A	70 AMP
208	1	60	8.2KW @ 230V	39 A	50 AMP
208	1	60	10KW @ 230V	42 A	60 AMP
230	1	60	8.2KW @ 230V	46 A	60 AMP
230	1	60	10KW @ 230V	50 A	70 AMP
460	3	60	8.2KW@480V	11 A	15 AMP
460	3	60	10KW @480V	14 A	20 AMP

JPX-300HN:

VOLTS	PH	HZ	RINSE HEATER RATINGS	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	50	N/A	12 A	15 AMP
230	1	50	N/A	12 A	15 AMP
115	1	60	N/A	24 A	30 AMP
208	1	60	N/A	11 A	15 AMP
230	1	60	N/A	12 A	15 AMP

NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and may be subject to change without notice.

SECTION 1: SPECIFICATION INFORMATION

SPECIFICATIONS of the JPX-300L

PERFORMANCE/CAPABILITIES

OPERATING CAPACITY (RACKS/HOUR)

RACKS PER HOUR	24
DISHES PER HOUR	600
GLASSES PER HOUR	600

OPERATING CYCLE (SECONDS)

WASH TIME	56
DRAIN TIME	26
RINSE TIME	35
TOTAL CYCLE TIME	120

TEMPERATURES

WASH --- (MINIMUM)	(48.9°C) 120°F
WASH --- (RECOMMENDED)	(60°C) 140°F
RINSE --- (MINIMUM)	(48.9°C) 120°F
RINSE --- (RECOMMENDED)	(60°C) 140°F

WATER REQUIREMENTS

INLET TEMPERATURE (RECOMMENDED)	(60°C) 140°F
INLET TEMPERATURE (MINIMUM)	(48.9°C) 120°F
WATER LINE SIZE I.P.S. (MINIMUM)	1/2”
DRAIN LINE SIZE I.P.S. (MINIMUM)	1 3/8”
FLOW PRESSURE P.S.I.	20 ±5
MINIMUM CHLORINE REQUIRED (PPM)	50

ELECTRICAL REQUIREMENTS

WASH MOTOR HP	3/4

NOTE: Typical Electrical Circuit is based upon (1) 125% of the full amperage load of the machine and (2) typical fixed-trip circuit breaker sizes as listed in the NEC 2002 Edition. Local codes may require more stringent protection than what is displayed here. Always verify with your electrical service contractor that your circuit protection is adequate and meets all applicable national and local codes. These numbers are provided in this manual simply for reference and may change without notice at any given time.

JPX-300L:

VOLTS	PH	HZ	RINSE HEATER RATINGS	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
115	1	60	N/A	14 A	20 AMP
208	1	60	N/A	7 A	15 AMP
230	1	60	N/A	7 A	15 AMP

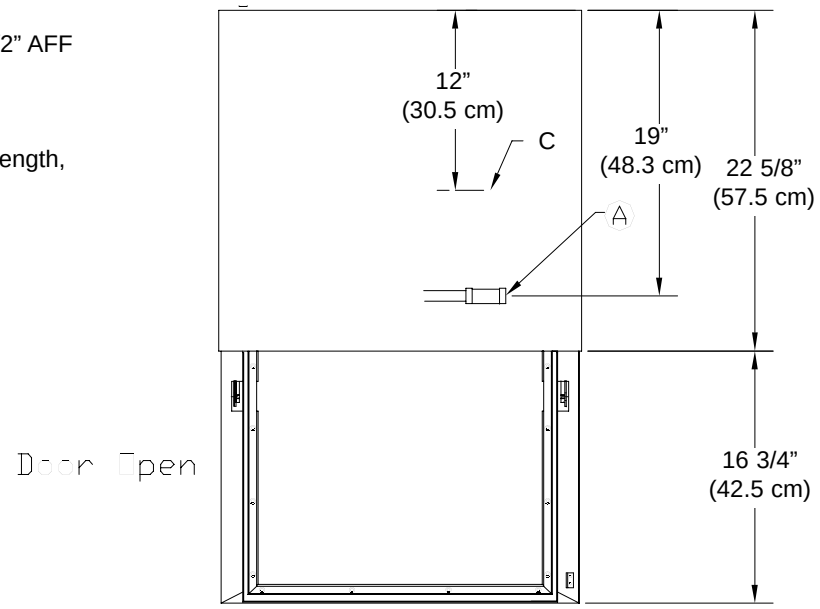
NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and may be subject to change without notice.

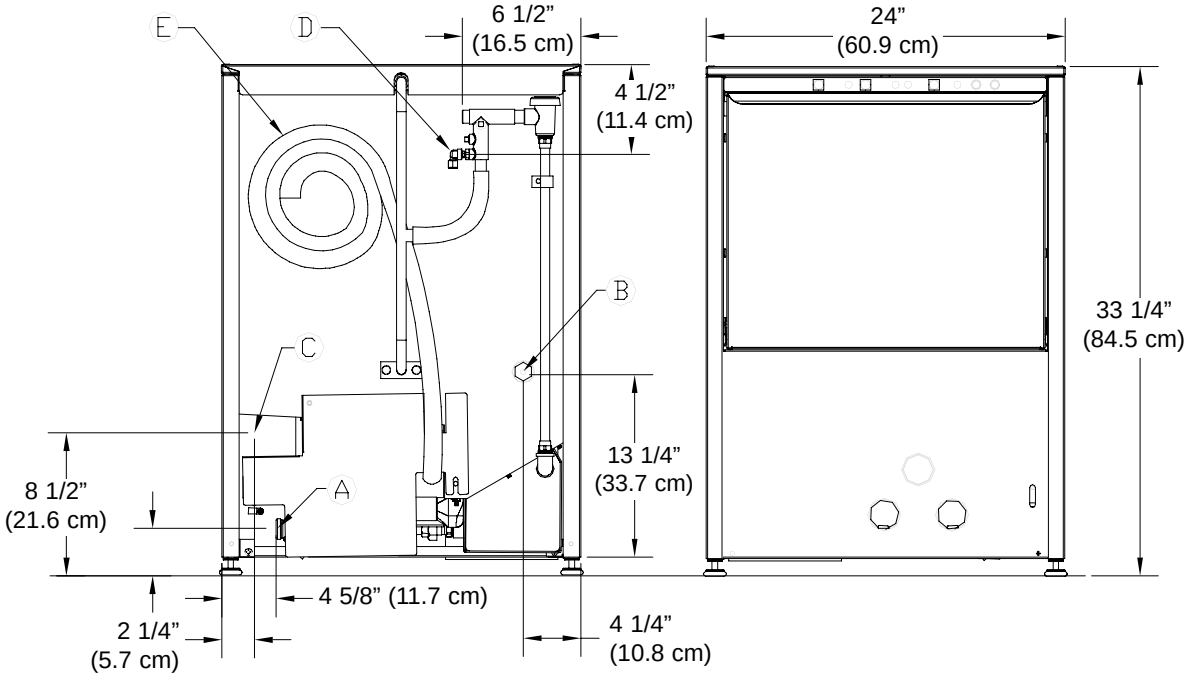
SECTION 1: SPECIFICATION INFORMATION

JPX-300H/HC DIMENSIONS

LEGEND

A - Water Inlet 1/2” Female Pipe Thread, 2 1/2” AFF
B - Chemical Feeder Connection
C - Electrical Connection
D - Rinse Additive Connection
E - Drain Connection Flexible Hose 6’ Free Length, 1” ID x 1 3/8” OD





DIMENSIONS

Height (minimum):	33 1/4” (84.5 cm)	Inside Clearance Height:	14 1/2” (36.8 cm)
Height (maximum):	34 1/4” (87 cm)	Inside Clearance Width:	20 1/4” (51.4 cm)
Width:	24” (60.9 cm)	Inside Clearance Depth:	21 1/4” (54 cm)
Depth:	22 5/8” (57.5 cm)	Door Open Depth:	39 1/2” (100.3 cm)
Wall Clearance (minimum):	2 1/2” (6.4 cm)		

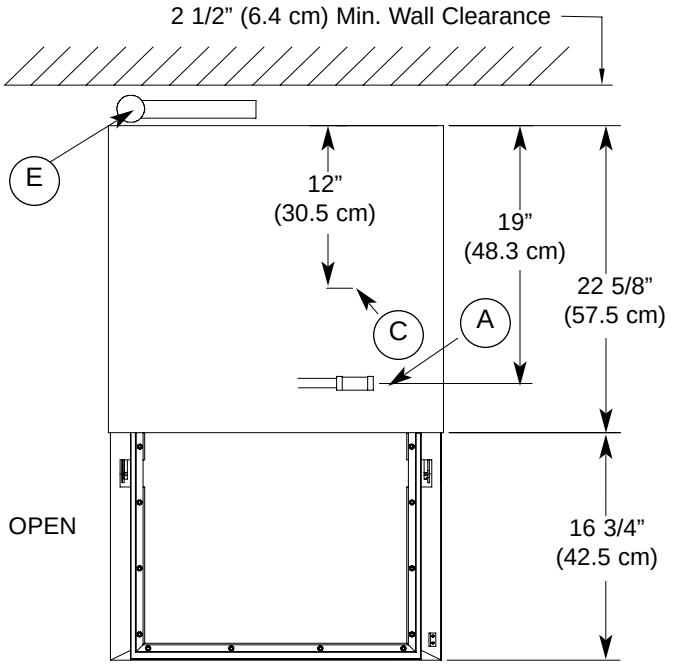
*All dimensions are for reference only and are subject to change without notice.

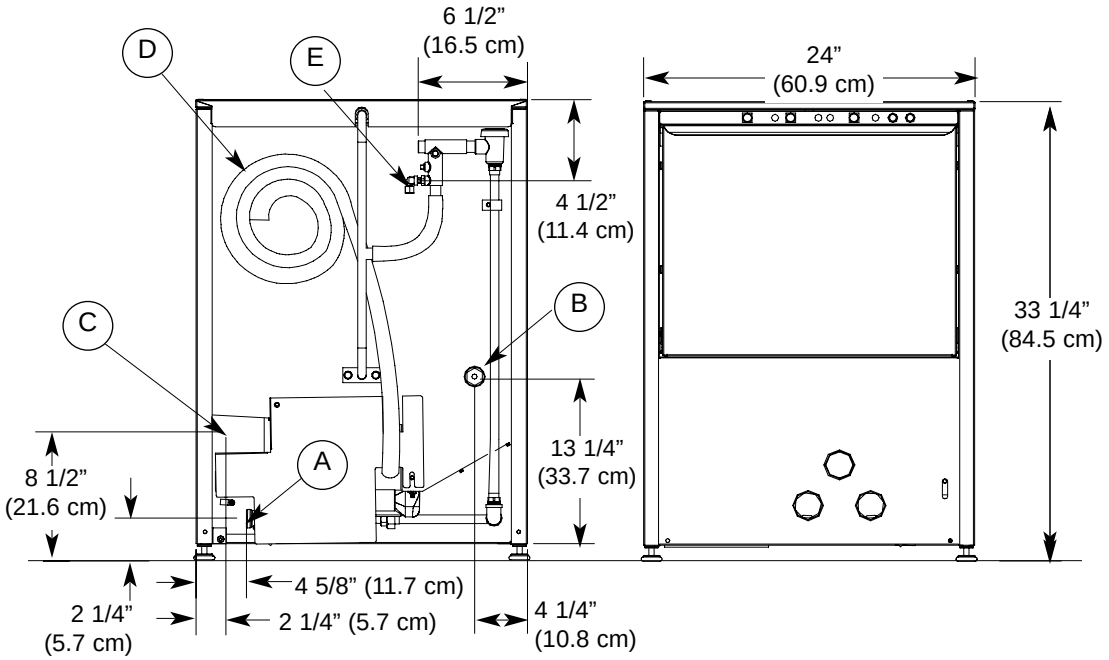
SECTION 1: SPECIFICATION INFORMATION

JPX-300HN DIMENSIONS

LEGEND

A - Water Inlet 1/2” ID Female Pipe Thread, 2 1/2” AFF
B - Detergent Feeder Connection
C - Electrical Connection
D - Drain Connection Flexible Hose 6’ Free Length, 1” ID x 1 3/8” OD
E - Rinse Additive Connection





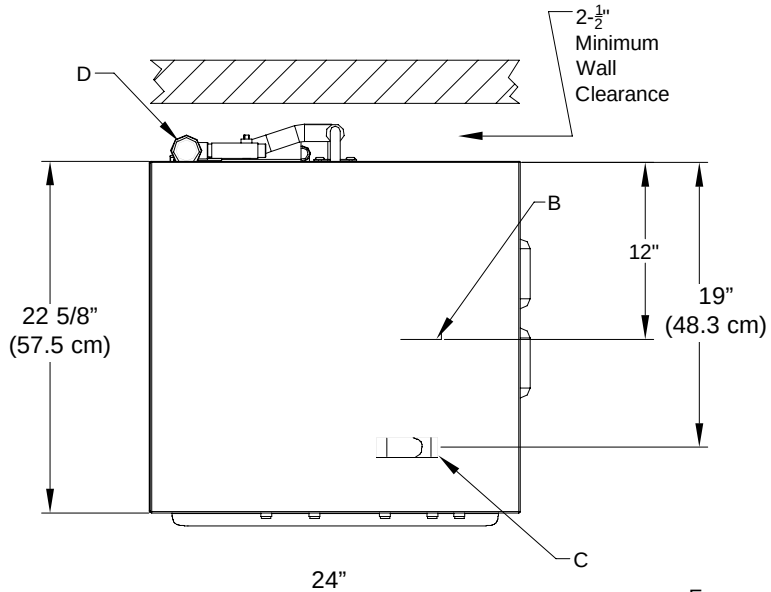
DIMENSIONS

Height (minimum):	33 1/4” (84.5 cm)	Inside Clearance Height:	14 1/2” (36.8 cm)
Height (maximum):	34 1/4” (87 cm)	Inside Clearance Width:	20 1/4” (51.4 cm)
Width:	24” (60.9 cm)	Inside Clearance Depth:	21 1/4” (54 cm)
Depth:	22 5/8” (57.5 cm)	Door Open Depth:	39 1/2” (100.3 cm)
Wall Clearance (minimum):	2 1/2” (6.4 cm)		

*All dimensions are for reference only and are subject to change without notice.

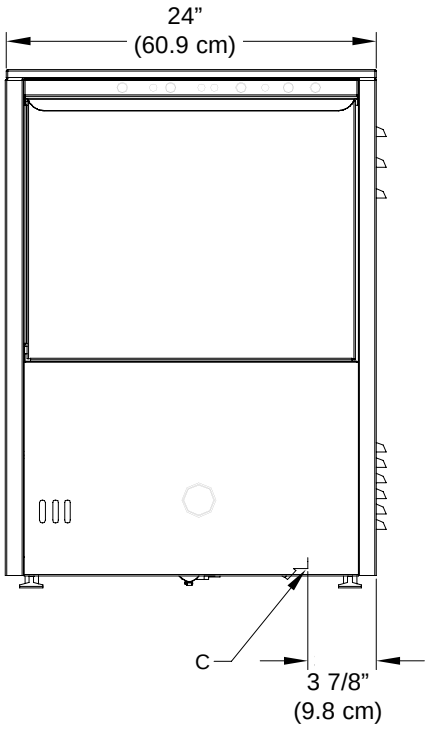
SECTION 1: SPECIFICATION INFORMATION

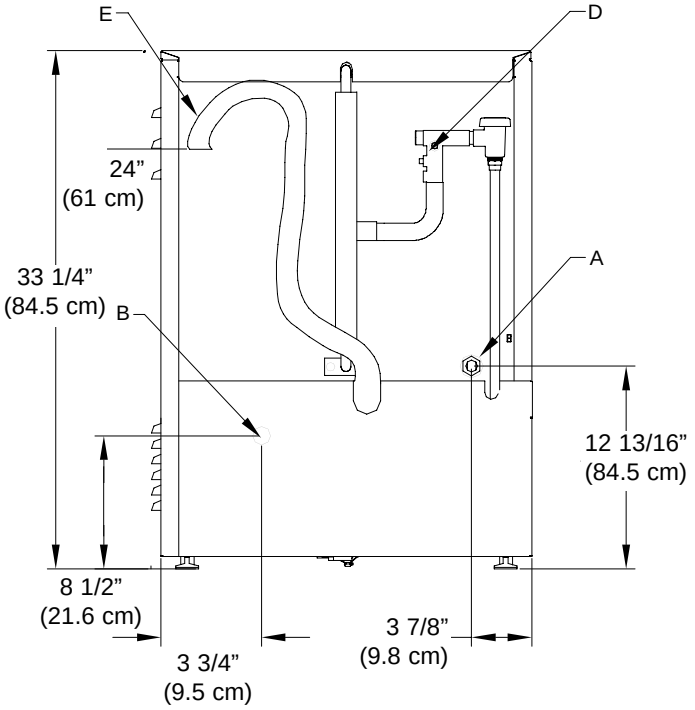
JPX-300L DIMENSIONS



LEGEND

A - Detergent Feeder Connection
B - Electrical Connection
C - Water Inlet 1/2" Female Pipe Thread, 2 1/2" AFF
D - Rinse Additive Connection
E - Drain Connection Flexible Hose 6' Free Length, 1" ID x 1 3/8" OD





3 3/4" (9.5 cm)

DIMENSIONS

Height (minimum):	33 1/4" (84.5 cm)	Inside Clearance Height:	14 1/2" (36.8 cm)
Height (maximum):	34 1/4" (87 cm)	Inside Clearance Width:	20 1/4" (51.4 cm)
Width:	24" (60.9 cm)	Inside Clearance Depth:	21 1/4" (54 cm)
Depth:	22 5/8" (57.5 cm)	Door Open Depth:	39 1/2" (100.3 cm)
Wall Clearance (minimum):	2 1/2" (6.4 cm)		

*All dimensions are for reference only and are subject to change without notice.

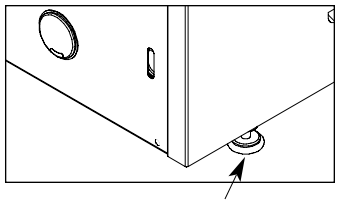
SECTION 2:
INSTALLATION/OPERATION INSTRUCTIONS

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that there may be some damage to the machine. If there is damage to both the container and machine, do not throw away the container. The dishmachine has been inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in there being damage to the unit while in transit. If such a situation occurs, do not return the unit to Jackson; instead, contact the carrier and ask them to send a representative to the site to inspect the damage to the unit and to complete an inspection report. You must contact the carrier within 48 hours of receiving the machine. Also, contact the dealer through which you purchased the unit.

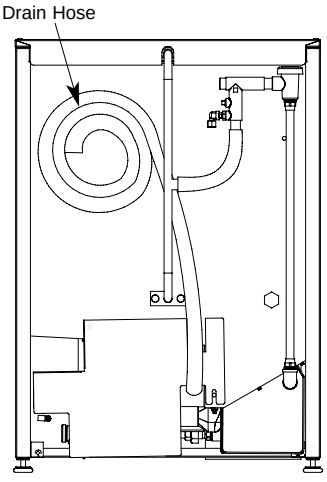
UNPACKING THE DISHMACHINE: Once the machine has been removed from the container, ensure that there are no missing parts from the machine. This may not be obvious at first. If it is discovered that an item is missing, contact Jackson immediately to have the missing item shipped to you.



Adjustable Bullet Foot

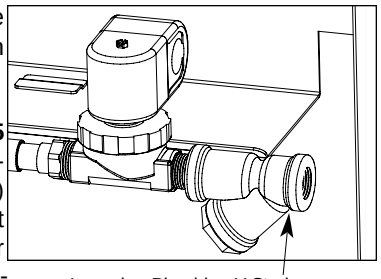
LEVEL THE DISHMACHINE: The dishmachine is designed to operate while being level. This is important to prevent any damage to the machine during operation and to ensure the best results when washing ware. The unit comes with adjustable bullet feet, which can be turned using a pair of channel locks or by hand if the unit can be raised safely. Ensure that the unit is level from side to side and from front to back before making any connections.

PLUMBING THE DISHMACHINE: All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is thoroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction. Any valves that are fouled as a result of foreign matter left in the water line, and any expenses resulting from this fouling, are not the responsibility of the manufacturer. A water hardness test must be performed to determine if the HTS-11 (4730-003-28-03) scale prevention and corrosion control, needs to be installed. A hardness test kit is attached to the warning tag that is attached to the y-strainer toward the front of the machine. If the hardness is higher than 5 GPG the HTS-11 (4730-003-28-03) will need to be installed, please contact Jackson immediately to have this item shipped to you.



Back of Machine Showing Drain Hose

WATER SUPPLY CONNECTION FOR MACHINES WITH A WATER HARDNESS GREATER THAN 5 GPG: Ensure that you have read the section entitled “PLUMBING THE DISHMACHINE” above before proceeding. Install the HTS-11 into the water line (1/2” ID pipe size minimum) before the dishmachine line y-strainer using copper pipe. The HTS-11 must be installed vertically. A mounting bracket is provided to facilitate the venture metering head to the wall. Observe proper inlet/outlet water directions. Flow directions are molded into the top of the head. It is recommended that a water shut-off valve be installed before the HTS-1 to allow access for servicing. Plumb from the HTS-11 outlet to the y-strainer using copper pipe (or order the 1/2” ID flexible hose kit offered by Jackson). The water supply line is to be capable of 20 ± 5 PSI “flow” pressure at the recommended temperature indicated on the data plate. See “Pressure Regulator” and “Shock Absorber” sections.



Incoming Plumbing Y-Strainer

WATER SUPPLY CONNECTION FOR MACHINES WITH A WATER HARDNESS OF 5 GPG OR LESS: Ensure that you have read the section entitled “PLUMBING THE DISHMACHINE” above before proceeding. Install the water supply line (1/2” ID pipe size minimum) to the dishmachine line y-strainer using copper pipe (or order the 1/2” ID flexible hose kit offered by Jackson). It is recommended that a water shut-off valve be installed in the water line between the main supply and the machine to allow access for service. The water supply line is to be capable of 20 ± 5 PSI “flow” pressure at the recommended temperature indicated on the data plate.

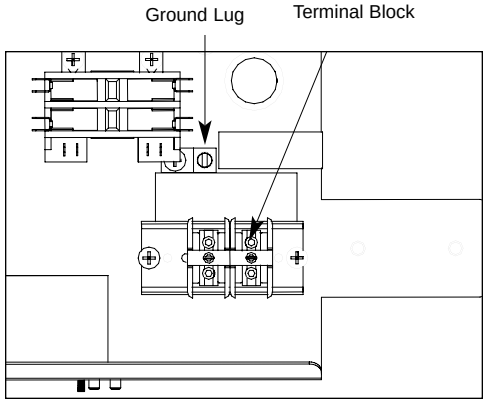
PRESSURE REGULATOR: Do to areas where the water pressure fluctuates or is greater than the recommended pressure, it is recommended installing a water pressure regulator. Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a “no flow” condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the fill valve is opened during the cycle.

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

ELECTRICAL INSTALLATION INSTRUCTIONS

SHOCK ABSORBER: It is also recommended that a shock absorber (not supplied with the JPX-300 series models) be installed in the incoming water line. This prevents line hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

CONNECTING THE DRAIN LINE: The JPX-300 series machines are a pumped (pressure) drain capable of pumping waste water to a height of 24 inches from the floor to the kitchen's drain system. The dishmachines are supplied with a 10 foot long hose that extends from the rear side of the machine. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 12 gallons per minute.



Control Box Electrical Connection

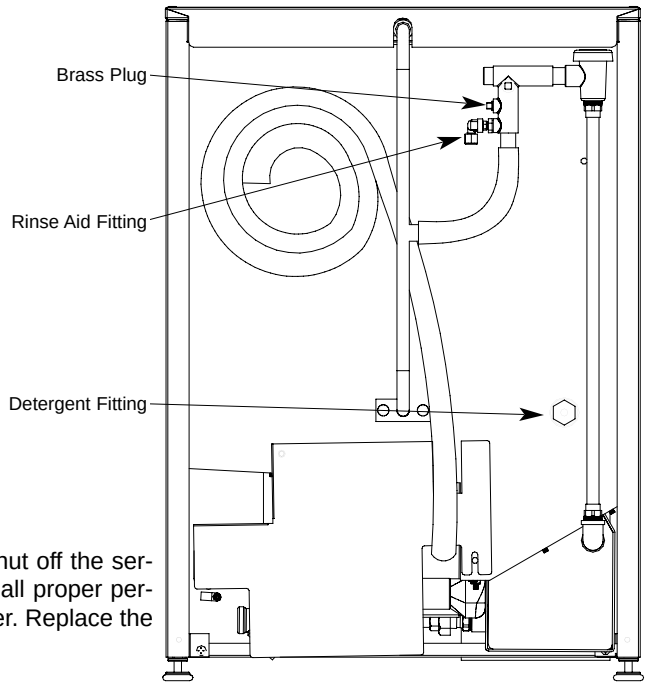
PLUMBING CHECK: Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

ELECTRICAL POWER CONNECTION: Electrical and grounding connections must comply with the applicable portions of the National Electrical Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Disconnect electrical power supply and place a tag at the disconnect switch to indicate that you are working on the circuit.

The dishmachine data plate is located on the front of the machine. Refer to the data plate for machine operating requirements, machine voltage, total amperage load and serial number.

To install the incoming power lines, remove the kick panel. This will require taking a phillips head screwdriver and removing the two screws at the bottom of the kick panel; open the door slightly while carefully lifting the kick panel up and out of the way. Install 3/4" conduit into the prepunched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1 and L2) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.



Back of Unit Showing Chemical Connection Points

VOLTAGE CHECK: Ensure that the power switch is in the OFF position and apply power to the dishmachine. Check the incoming power at the terminal block and ensure it corresponds to the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all proper personnel of any problems and of the location of the service breaker. Replace the control box cover and tighten down the screws.

CHEMICAL CONNECTIONS: All chemical hookup locations are located on the back of the dishmachine. Please refer to the drawing at the right for the correct connection point. The JPX-300H/HC/HN dishmachines are supplied with integral detergent and rinse aid chemical feeder pumps. The JPX-300L dishmachine is supplied with integral detergent, rinse additive and sanitizer chemical feeder pumps.

Please refer to page 11 for instructions on priming the chemical feeder pumps.

CHEMICAL DISPENSING EQUIPMENT

WARNING: CHLORINE-BASED SANITIZERS CAN BE DETRIMENTAL TO YOUR MACHINE IF THE CHEMICAL SOLUTION IS TOO STRONG. SEE YOUR CHEMICAL PROFESSIONAL TO ENSURE YOUR DISPENSER IS SET UP CORRECTLY.

This equipment is not recommend for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components. Use of deionized water or other aggressive fluids will void the manufacturer's warranty.

TO PREPARE CHEMICAL FEEDER PUMPS FOR OPERATION

The JPX-300H/HC/HN dishmachines are supplied with integral detergent and rinse aid chemical feeder pumps. The JPX-300L dishmachine is supplied with integral detergent, rinse additive and sanitizer chemical feeder pumps. Locate the open ends of the chemical tubes with the tube stiffeners and place each one in the appropriate container.

A. **Red** Tubing = **Detergent**
B. **Blue** Tubing = **Rinse Aid**
C. **White** Tubing = **Sanitizer**

PRIMING CHEMICAL FEEDER PUMPS

Chemical feeder pumps need priming when the machine is first installed or if for some reason the chemical lines have been removed and air is allowed to enter.

CAUTION: Water must be in the sump and wash tank prior to the dispensing of chemicals. Sanitizer in concentration is caustic and may cause damage without dilution.

1. Verify that the proper chemical tube stiffener inlet is in the proper container.

2. Use the prime switches located at the top of the unit to prime each pump. The switches are clearly marked (“D”, “R”, and “S”) as to what chemical feeder pump they are assigned to.

3. To prime the pumps, hold the switch in the momentary position until chemical can be observed entering the sump.

4. Detergent is dispensed as required during the wash cycle by the cam timer. The amount of detergent may need to be increased or decreased depending on water quality and type of detergent. It is adjusted by changing the detergent cam on the cam timer.

5. Rinse additive is dispensed as required into the final rinse. The amount of rinse aid may need to be adjusted depending on water hardness and results. It can be changed by changing the rinse cam on the cam timer.

6. Sanitizer (either chlorine or iodine) is dispensed into the final rinse. The amount of sanitizer may need to be adjusted depending on the concentration and type of sanitizer used. It is adjusted by changing sanitizer cam on the cam timer.

WARNING: Some of the chemicals used in dishwashing may cause chemical burns if they come in contact with your skin. Wear protective gear when handling these chemicals. If you do come in contact with these chemicals, immediately flush the affected area with fresh water.

PROGRAMMING INSTRUCTIONS FOR CHEMICAL FEEDER PUMPS (FOR INSTALLATION TECHNICIAN ONLY)

To access the programming mode, the machine must be ON, and idle (between cycles).

On the timer board, press and hold both the MOVE and ENTER buttons on the timer board simultaneously for two seconds.

The PROGRAM (PGM) light and light A will illumniate.

Note: Once in the programming mode, the MOVE button is used to scroll between the programming categories and the ENTER button is used to select the category.

Press the MOVE button to move the solid light to the desired location of FILL, RINSE AID, DETERGENT or SANITIZER. Please note that options A, B, C, and D are not adjustable outputs.

Press the ENTER button for the chosen category. Now, the (PGM) light will illuminate along with lights corresponding to the time values forthe chosen category. The ACCEPT light will blink.

The PROGRAM light will illuminate.

To change the value of a parameter, use the MOVE button to illuminate the light next to the time option (time is in seconds). In the time categories, each second in use will light up. To deselect the option, press ENTER and the light will go off, press ENTER again and it will illuminate. Once you have set your time category, press the MOVE button until the ACCEPT light illuminates and press ENTER. This will save the changed parameters.

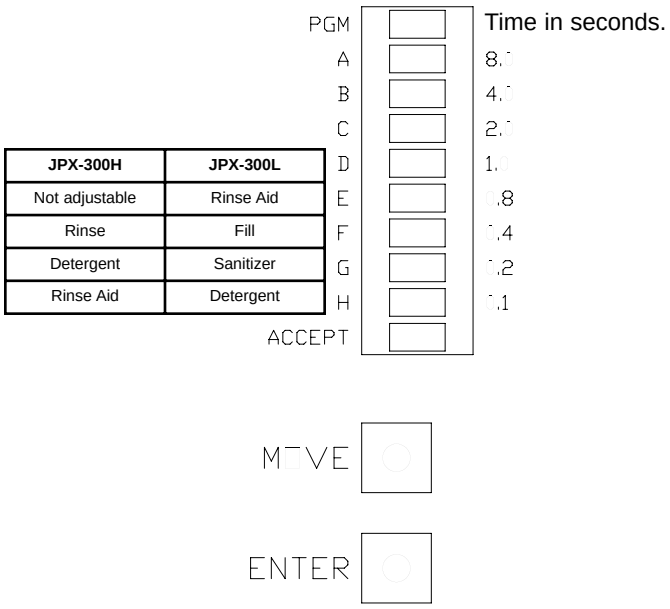
Once you press the ENTER button when the ACCEPT light is blinking you will exit the programming mode. To change any other values, you will have to return to the programming mode. To revert back to a previous setting, you must return to that option and change the parameter back to the previous setting.

Once in the programming mode, if there have been no keypad inputs for approximately 2 minutes, the system will automatically exit out of the programming mode. Any changes to parameters will be saved when the programming mode is automatically exited.

The wash and drain settings are not adjustable.

All time adjustments are in seconds. Refer to the chart below for the adjustable outputs.

Timer Programming Board



JPX-300H	JPX-300L
Not adjustable	Rinse Aid
Rinse	Fill
Detergent	Sanitizer
Rinse Aid	Detergent

DETERGENT CONTROL

Detergent usage and water hardness are two factors that contribute greatly to how efficiently your dishmachine will operate. Using detergent in the proper amount can become, in time, a source of substantial savings. A qualified water treatment specialist can tell you what is needed for maximum efficiency from your detergent, but you should still know some basics so you'll understand what they are talking about.

First, you must understand that hard water greatly effects the performance of the dishmachine. Water hardness is the amount of dissolved calcium and magnesium in the water supply. The more dissolved solids in the water, the greater the water hardness. Hard water works against detergent, thereby causing the amount of detergent required for washing to increase. As you use more detergent, your costs for operating the dishmachine will increase and the results will decrease. The solids in hard water also may build-up as a scale on wash and rinse heaters, decreasing their ability to heat water. Water temperature is important in removing soil and sanitizing dishes. If the water cannot get hot enough, your results may not be satisfactory. This is why Jackson recommends that if you have installed the machine in an area with hard water, that you also install some type of water treatment equipment to help remove the dissolved solids from the water before it gets to the dishmachine.

Second, hard water may have you adding drying agents to your operating cycle to prevent spotting, when the real problem is deposited solids on your ware. As the water evaporates off of the ware, the solids will be left behind to form the spotting and no amount of drying agent will prevent this. Again, using treated water will undoubtedly reduce the occurrences of this problem.

Third, treated water may not be suitable for use in other areas of your operation. For instance, coffee made with soft water may have an acid or bitter flavor. It may only be feasible to install a small treatment unit for the water going into the dishmachine itself. Discuss this option with your qualified water treatment specialist.

Even after the water hardness problems have been solved, there still must be proper training of dishmachine operators in how much detergent is to be used per cycle. Talk with your water treatment specialist and detergent vendor and come up with a complete training program for operators. Using too much detergent has as detrimental effects as using too little. The proper amount of detergent must be used for job. It is important to remember that certain menu items may require extra detergent by their nature and personnel need to be made aware of this. Experience in using the dishmachine under a variety of conditions, along with good training in the operation of the machine, can go a long way in ensuring your dishmachine operates as efficiently as possible.

Certain dishmachine models require that chemicals be provided for proper operation and sanitization. Some models even require the installation of third-party chemical feeders to introduce those chemicals to the machine. Jackson does not recommend or endorse any brand name of chemicals or chemical dispensing equipment. Contact your local chemical distributor for questions concerning these subjects.

Some dishmachines come equipped with integral solid detergent dispensers. These dispensers are designed to accommodate detergents in a certain sized container. If you have such a unit, remember to explain this to your chemical distributor upon first contacting them.

As explained before, water temperature is an important factor in ensuring that your dishmachine functions properly. The data plate located on each unit details what the minimum temperatures must be for either the incoming water supply, the wash tank and the rinse tank, depending on what model of dishmachine you have installed. These temperatures may also be followed by temperatures that Jackson recommends to ensure the highest performance from you dishmachine. However, if the minimum requirements are not met, the chances are your dishes will not be clean or sanitized. Remember, a dish can look clean, but it may not be sanitized. Instruct your dishmachine operators to observe the required temperatures and to report when they fall below the minimum allowed. A loss of temperature can indicate a much larger problem such as a failed heater or it could also indicate that the hot water heater for your operation is not up to capacity and a larger one may need to be installed.

There are several factors to consider when installing your dishmachine to ensure that you get the best possible results from it and that it operates at peak efficiency for many years. Discuss your concerns with your local chemical distributor and water treatment specialist before there is a problem.

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

OPERATION INSTRUCTIONS

PREPARATION: Before proceeding with the start-up of the unit, verify the following:

1. The strainer is in place and is clean.

2. That the wash and rinse arms are screwed securely into place and that their endcaps are tight. The wash and rinse arms should rotate freely.

3. Verify all chemical levels for machine chemical feeder pumps are correct.

POWER UP: To energize the unit, turn on the power at the service breaker. The voltage should have been previously verified as being correct. If not, the voltage will have to be verified.

FILLING THE WASH TUB: For the initial fill, close the door and ensure that the MANUAL switch light is not on. Depress and hold the START CYCLE switch until the auto light comes on and releases. For the initial fill, run the machine through 3 cycles to fill the tub sump. The machine will run a partial cycle and fill to the bottom of the pan strainer. Open the door and verify that the water level is correct.

NOTE: For the JPX-300H/JPX-300HC: Ensure the orange/white wires at the heater contactor are connected properly. They have been purposely disconnected at the factory to avoid damage to the heater element when there is no water in the booster heater.

Hereafter, the water level is controlled by the timer that has been preset at the factory. Verify that there are no other leaks on the unit before proceeding any further. The wash sump must be completely filled before operating the wash pump to prevent damage to the component. Once the wash tub is filled, the unit is ready for operation.

The machine runs a complete cycle to drain and fill. If the machine is not allowed to drain, the water will build up inside the tub. After the initial fill, the rinse water for the current cycle will become the wash water for the next cycle.

WARE PREPARATION: Proper preparation of ware will help ensure good results and less re-washes. If not done properly, ware may not come out clean and the efficiency of the dishmachine will be reduced. It is important to remember that a dishmachine is not a garbage disposal and that simply throwing unscraped dishes into the machine simply defeats the purpose altogether of washing the ware. Scraps should be removed from ware prior to being loaded into a rack. Pre-rinsing and pre-soaking are good ideas, especially for silverware and casserole dishes. Place cups and glasses upside down in racks so that they do not hold water during the cycle. The dishmachine is meant not only to clean, but to sanitize as well, to destroy all of the bacteria that could be harmful to human beings. In order to do this, ware must be properly prepared prior to being placed in the machine.

DAILY MACHINE PREPARATION: Refer to the section entitled “PREPARATION” at the top of this page and follow the instructions there. Afterwards, check that all of the chemical levels are correct and/or that there is plenty of detergent available for the expected workload.

WARM-UP CYCLES: For a typical daily start-up, it is recommended to run the machine through 3 cycles to ensure that all of the cold water is out of the system and to verify that the unit is operating correctly. To cycle the machine, ensure that the power is on and that the tub has filled to the correct level.

Press the START CYCLE button and hold until the green auto light is on and releases, the unit will start, run through the cycle, and shut off automatically. Repeat this two more times. The unit should now be ready to proceed with the washing of ware.

WASHING A RACK OF WARE: To wash a rack, open the door completely and slide the rack into the unit. Close the door, press the START CYCLE button and hold until the green auto light is on and releases, the unit will start. Once the cycle is completed, open the door and remove the rack of clean ware. Replace with a rack of soiled ware and close the door. The process will then repeat itself.

OPERATIONAL INSPECTION: Based upon usage, the pan strainer may become clogged with soil and debris as the workday progresses. Operators should regularly inspect the pan strainer to ensure it has not become clogged. If the strainer does, it will reduce the washing capability of the machine. Instruct operators to clean out the pan strainer at regular intervals or as required by work load.

SHUTDOWN AND CLEANING: At the end of the workday, close the door. Start a cycle. Wait approximately five seconds after the green auto light comes on and then push the POWER OFF switch. This will put the machine in shutdown mode which will let the machine drain completely prior to shutting off. Once the wash tub is drained and power light is off, remove he pan strainer. Remove soil and debris from the strainer and set to the side. Unscrew the wash and rinse arms from their manifolds. Remove the endcaps and flush the arms with water. Use a brush to clean out the inside of the arms. If the nozzles appear to be clogged, use a toothpick to remove the obstruction. Wipe the inside of the unit out, removing all soil and scraps. Reassemble the wash and rinse arms and replace them in the unit. The arms only need to be hand tight, do not use tools to tighten them down. Reinstall the strainer and close the door.

DELIMING OPERATIONS: In order to maintain the dishmachine at its optimum performance level, it will be required to remove lime and corrosion deposits on a frequent basis. A deliming solution should be available from your detergent supplier. Read and follow all instructions on the label of the deliming solution.

NOTE: If this machine is equipped with a HTS-11, scale prevention and corrosion control device, and lime is becoming a frequent problem, the cartridge needs to be replaced. To order a replacement cartridge (4730-003-28-04), call Jackson immediately to have one shipped to you.

To proceed with the deliming operation, fill the dishmachine and add the correct amount of deliming solution as recommended by the deliming solution manufacturer. The water capacity of the tank can be verified on the specification sheet(s) of this manual.

Perform the following operations to delime the dishmachine:

1. Push Manual Switch on the front of the control panel.

2. Disconnect or turn off all chemical feeder pumps.

3. Close all doors (after adding the deliming solution).

4. Run the machine for the recommended period of time.

5. Press the Power Switch to turn the unit off and open the doors.

6. Wait five minutes, then inspect the inside of the machine. If the machine is not delimed, run another time cycle as per the deliming solution's instructions.

7. When clean, drain and re-fill the machine.

8. Run in MANUAL for 10 minutes to remove residual deliming solution.

9. Drain and re-fill the machine.

SECTION 3:
PREVENTATIVE MAINTENANCE

SECTION 3: PREVENTATIVE MAINTENANCE

PREVENTATIVE MAINTENANCE

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

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

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

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

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

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

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

1. Ensure that the water temperatures match those listed on the machine data plate.
2. Ensure that all strainers are in place before operating the machine.
3. Ensure that all wash and/or rinse arms are secure in the machine before operating.
4. Ensure that drains are closed/sealed before operating.
5. Remove as much soil from dishes by hand as possible before loading into racks.
6. Do not overfill racks.
7. Ensure that glasses are placed upside down in the rack.
8. Ensure that all chemicals being injected to machine have been verified as being at the correct concentrations.
9. Clean out the machine at the end of every workday as per the instructions in the manual.
10. Always contact a QUALIFIED SERVICE AGENCY whenever a serious problem arises.
11. Follow all safety procedures, whether listed in this manual or put forth by local, state or national codes/regulations.

SECTION 4:
TROUBLESHOOTING

SECTION 4: TROUBLESHOOTING SECTION

COMMON PROBLEMS

WARNING: Inspection, testing and repair of electrical equipment should be performed only by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. **Exercise extreme caution at all times.** If test points are not easily accessible, disconnect power, attach test equipment and reapply power to test. When replacing electrical parts, disconnect power at source circuit breaker.

Problem: Water overflow from bottom of door.

1. Clogged drain. Remove obstruction.
2. Machine not level. Level machine, or increase height to the front.
3. Excessive inlet pressure. Install pressure reducing valve, or adjust if one is present. Ensure flow is 20 ±5 PSI.
4. Detergent foaming. Reduce detergent quantity.
5. C4 Microswitch is stuck closed. Replace.

Problem: Wash motor doesn't operate on manual wash.

1. Loose or broken wires. Reconnect or replace wires in motor.
2. Defective manual wash switch. Replace.
3. Defective motor starting relay. Replace.

Problem: Motor operates on manual wash but not on automatic.

1. C1 timer microswitch is defective. Replace.
2. C2 timer microswitch is defective. Replace.
3. Defective circuit in manual wash switch. Replace switch.

Problem: No water comes through the rinse arms when the "ON/FILL" switch is depressed.

1. Water not turned on. Turn water on.
2. Defective solenoid valve. Replace solenoid valve.

Problem: Little or no water coming through the rinse assemblies.

1. Limed up rinse heads or piping. Delime rinse heads.
2. Low water pressure. Increase pipe size to machine. Adjust pressure regulator.

Problem: Rinse water runs continuously with breaker turned off.

1. Defective plunger in solenoid valve. Replace.
2. Defective diaphragm in solenoid valve. Replace diaphragm.

Problem: Rinse doesn't operate on automatic during timed cycle (but does operate in auto/fill operation).

1. C4 microswitch is defective. Replace.

Problem: Rinse water runs continuously with power applied to machine, but when circuit breaker to machine is turned off, water stops.

1. C4 timer microswitch is stuck closed. Replace.

Problem: Wash temperature not at required reading on thermometer.

1. Check that orange/white wires are connected. See note on page 12.
2. Defective thermometer. Replace.
3. Defective thermostat. Adjust thermostat. Replace thermostat.
4. Rinse or strip heater defective. Replace heater element.
5. Defective heater contactor R1. Replace.

SECTION 4: TROUBLESHOOTING SECTION

COMMON PROBLEMS

WARNING: Inspection, testing and repair of electrical equipment should be performed only by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. **Exercise extreme caution at all times.** If test points are not easily accessible, disconnect power, attach test equipment and reapply power to test. When replacing electrical parts, disconnect power at source circuit breaker.

Problem: Rinse water not at required temperature range.

1. Check that orange/white wires are connected. See note on page 12.
2. Thermometer is defective. Replace.
3. Thermostat is defective. Adjust the thermostat. Replace if necessary.
4. Incoming rinse water does not meet minimum criteria indicated on machine data plate. Adjust as required.

Problem: Machine doesn't drain when "OFF/DRAIN" switch is pressed.

1. Drain solenoid clogged. Remove obstruction.
2. Defective motor or motor start relay. Replace.
3. Defective drain valve. Replace.
4. Defective C5 microswitch. Replace.

Problem: No indication of pressure.

1. Water turned off. Turn water on.
2. 1/4" test cock ball valve is closed. Open the ball valve.
3. Pressure gauge defective. Replace pressure gauge.

SECTION 5:
SERVICE PROCEDURES

RINSE SOLENOID VALVE REPAIR PARTS KIT

These dishmachines are equipped with electrical solenoid valves to allow for automatic fill and rinse. These valves are designed to specific tolerances and design aspects that must be met in order to function properly.

Jackson offers repair kits for replacing some of the wear items associated with solenoid valves which will allow you to save money in that replacement of these parts can take place *without* removing the solenoid valve from the plumbing assembly.

The instructions provided here are for maintenance personnel only. Unauthorized persons should not attempt any of the steps contained in these instructions.

Warning: many of the instructions and steps within this document require the use of tools. Only authorized personnel should ever perform any maintenance procedure on the dishmachine!

PREPARATION

1. Power must be secured to the unit at the service breaker. Tag or lock out the service breaker to prevent accidental or unauthorized energizing of the machine.

2. Ensure that incoming water to the machine is secured either by use of a shut-off valve or disconnecting the incoming water line.

TOOLS REQUIRED

The following tools will be needed to perform this maintenance evolution:

1. Small flathead screwdriver
2. Medium flathead screwdriver
2. Needle nose pliers
3. 5/16” nutdriver
4. Channel locks
5. 12” pipe wrench

TIME REQUIRED

It is estimated that it will take (1) person twenty minutes to perform this task, not including all of the items indicated in the section entitled “PREPARATION”.

IMPORTANT NOTES

1. Read these instructions thoroughly before attempting this maintenance evolution. Become familiar with the parts and what actions need to be taken. This will save time in the long run!

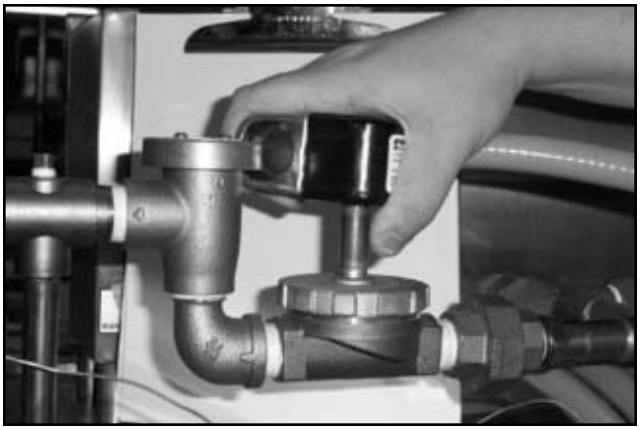
2. The procedures demonstrated in this manual are shown being performed on an AJ-44C rack conveyor dishmachine. The actual maintenance steps, however, apply to any Parker style solenoid valve found on a Jackson dishmachine.

STEPS

1. Remove the top screw with the 5/16” nutdriver. Remove the screw and the data plate and set to the side.

Removing the top screw

2. With the top screw and data plate removed, grasp the solenoid coil and gently pull up. The coil should slide up, allowing you to remove it from the valve bonnet. If you are wanting to replace the coil, continue on with Step 3. If you are wanting to replace some of the internal components of the valve, proceed to step 12.

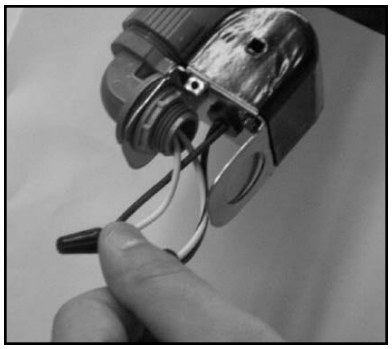


Removing the coil

3. **NOTE:** Replacing the solenoid coil requires working with the wiring of your machine. It is important that all wiring maintenance be performed by qualified personnel. Always verify the wiring steps presented in this instruction with the schematic that shipped with the unit. A current schematic can also be found in the unit’s installation manual. Before beginning any step that involves working with wiring, ensure that the steps located in the section entitled “Preparation” have been performed. Power must be secured to the machine at the service breaker. Failure to do so could result in severe injury to maintenance personnel.

Prying open the coil wire cover

4. When replacing the coil, ensure that when removing the coil wire cover that care is taken not to damage the wires inside. Using the medium flathead screwdriver, gently use it to open the cover enough to where it could be pulled off.



Straightening the wires

5. Once the coil wire cover has been removed and set to the side, take the internal wires and pull them out straight.

Removing the wire nuts

6. Remove the wire nuts from the wires and separate them.

Loosening the conduit nut

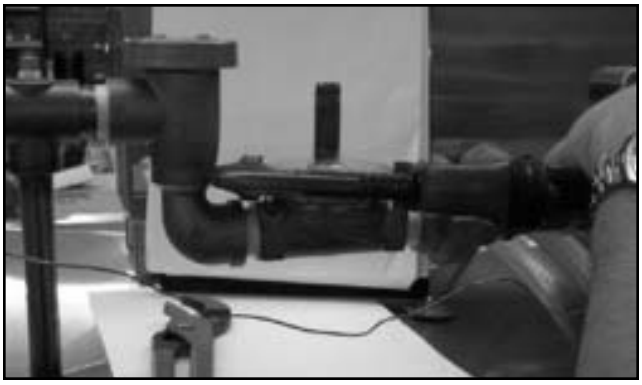
7. Using a pair of channel locks, gently loosen the conduit retaining ring for the conduit nut. Once it is loosened, use your fingers to unscrew and remove it.

8. Pull the conduit away and discard the bad coil. Take the new coil and attach the conduit, reinstall & tighten the conduit nut, and pull the wires through so that you will be able to wire the valve back up.

9. Reconnect the wires from the conduit to the wires from the solenoid as they had been connected previously. Ensure that the wire nuts are on tight.

10. Slide the coil wire cover back on, taking care not to damage the wires.

11. If you are done performing maintenance on the valve, continue on to step 23. Otherwise, please go on to step 12.L

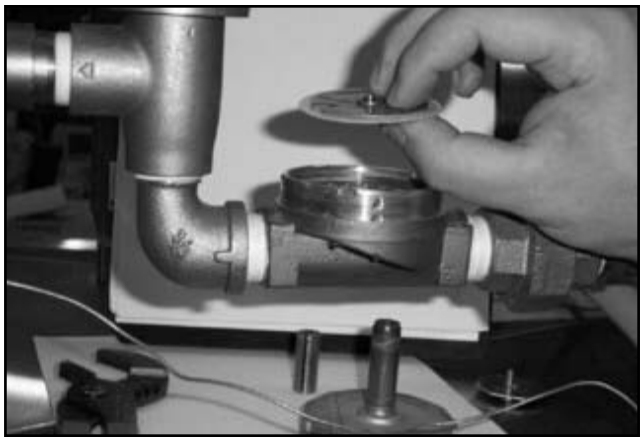


Loosening the valve bonnet

12. To remove the valve bonnet, grasp it with the jaws of the pipe wrench and turn to the left. **Note:** on some models you may have to remove the valve in order to perform this and any further steps. Be careful not to damage the plumbing assembly. Only use the pipe wrench enough to where you can spin the valve bonnet off with your hand.

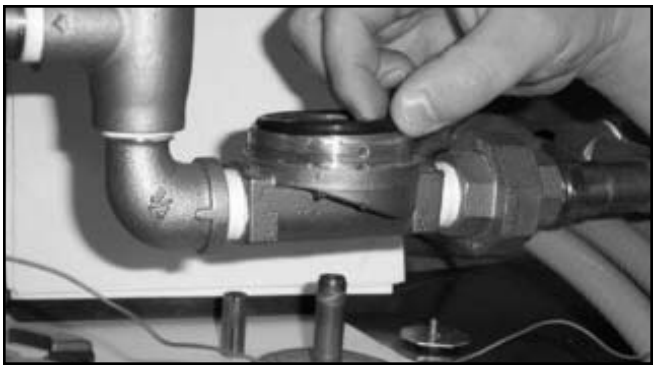
Removing the valve bonnet

13. Slowly remove the valve bonnet. **Note:** The spring for the plunger is located directly under the bonnet and may come free if you are not careful. Remove the plunger, spring and valve bonnet and place to the side.



Removing the diaphragm

17. Remove the diaphragm retainer and then the diaphragm itself. Many problems associated with a solenoid valve can be traced to a clogged pilot port in the diaphragm.

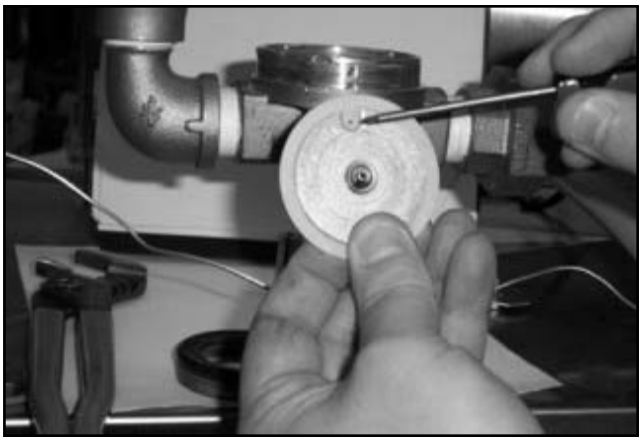


Removing the O-ring

14. Remove the O-ring and inspect it. If it has any tears or cuts or excessive flat spaces, it should be replaced.

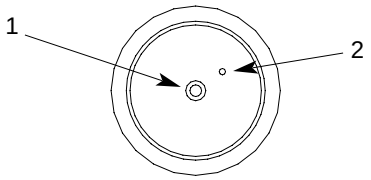
15. Examine the threads for the valve bonnet. Check them for scoring or signs of damage. Take a cloth and clean them out to remove any foreign particles that might get lodged in the threads and cause a leak. Severely damage threads should not be repaired; instead it is recommended that the entire valve should be replaced. These instructions do not provide information on replacing the solenoid valve.

16. **Note:** Even though an O-ring may not appear damaged, it is a good idea to go ahead and replace it if you have a new one. This will help ensure that your valve remains leak-free in the future!



Pointing out the extension hole

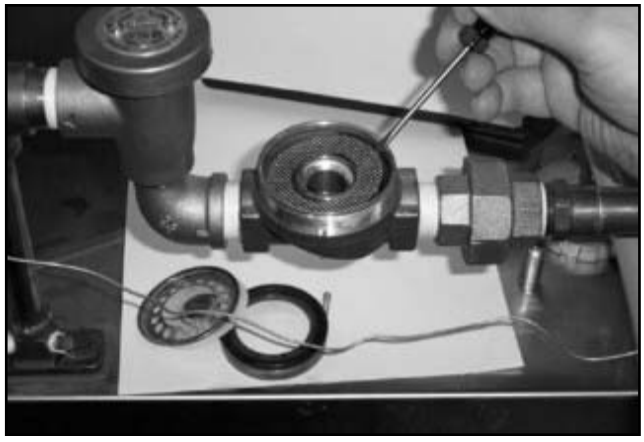
18. As indicated in the photo above, the extension hole can become clogged. If it is difficult to clean out, you can use a heated straight pin to push through the hole. The center hole, the pilot port, must also be clear. If the diaphragm is torn or bent in any way, it must be replaced.



Diaphragm showing (1) pilot port and (2) extension hole

Removing the screen retainer

19. Using the small flathead screwdriver, lift out the screen retainer. Verify that the holes in it are free of clogs and debris.



Removing the mesh strainer screen

20. Again using the small flathead screwdriver, carefully remove the mesh screen from inside the valve body. The screen should be taken and rinsed out to remove any debris fouling it.

View inside the solenoid valve body

21. With the mesh screen removed, look down into the valve and verify it is not clogged. Remove any foreign objects from the valve body that would obstruct flow.

22. Reassemble the valve, reversing the steps needed to take it apart. Replace defective replacement parts with new parts from ordered kits. Ensure that components are sufficiently tightened to prevent leakage.

AFTER MAINTENANCE ACTIONS

Reconnect the incoming water (if disconnected) and turn on. Then restore power to the unit. Run the unit for at least 10 minutes to ensure there are no leaks. If any problems arise please contact Jackson.

SPECIAL PARTS

Solenoid Valve Plunger Kit
Includes plunger and spring
Part number 06401-003-07-40

Solenoid Valve Diaphragm Kit
Includes diaphragm and o-ring
Part number 06401-003-07-41 (1/2” NPT)

Solenoid Valve 110 Volt Coil and Housing Kit
Part number 06401-003-07-43

Solenoid Valve 220 Volt Coil and Housing Kit
Part number 06401-003-07-44

Complete Solenoid Valve
Part number 04810-100-12-18 (1/2”, 110 Volt)
Part number 04810-100-09-18 (1/2”, 220 Volt)

VACUUM BREAKER REPAIR PARTS KIT

These dishmachines are equipped with vacuum breakers to serve as back-flow prevention devices. ASSE requirements specify what type of back-flow prevention is necessary on dishmachines. Vacuum breakers, unlike air gaps, have certain parts that have specific tolerances and design aspects that must be met in order to function properly.

Jackson offers repair kits for replacing some of the wear items associated with vacuum breakers which will allow you to save money in that replacement of these parts can take place *without* removing the vacuum breaker from the plumbing assembly.

The instructions provided here are for maintenance personnel only. Unauthorized persons should not attempt any of the steps contained in these instructions.

Warning: many of the instructions and steps within this document require the use of tools. Only authorized personnel should ever perform any maintenance procedure on the dishmachine!

PREPARATION

1. Power must be secured to the unit at the service breaker. Tag or lock out the service breaker to prevent accidental or unauthorized energizing of the machine.

2. Ensure that incoming water to the machine is secured either by use of a shut-off valve or disconnecting the incoming water line.

TOOLS REQUIRED

The following tools will be needed to perform this maintenance evolution:

1. Small flathead screwdriver
2. Needle nose pliers

TIME REQUIRED

It is estimated that it will take (1) person twenty minutes to perform this task, not including all of the items indicated in the section entitled “PREPARATION”.

IMPORTANT NOTES

1. Read these instructions thoroughly before attempting this maintenance evolution. Become familiar with the parts and what actions need to be taken. This will save time in the long run!

STEPS

1. **Note:** These instructions only apply to vacuum breakers (1/2” NPT and 3/4” NPT) as pictured below. The repair kits indicated in these instructions will only work on those style of back-flow preventers. If you have a machine with a different style of vacuum breaker, contact Jackson about replacement components.

Vacuum breaker

2. **Note:** Even though the photos in these instructions show a vacuum breaker that has been removed from the plumbing assembly, these maintenance steps could be performed with it installed so long as the requirements in the section entitled “PREPARATION” have been met.

3. Remove the top cap by gripping firmly and turning to the left. The cap should come off after a few turns.

Removing the cap

4. Set the cap to the side.

5. Using the needle nose pliers, gently lift out the plunger and set to the side. Examine the brass seating surface inside the vacuum breaker. The plunger is required to sit flat on this surface so it must be free of defects, imperfections and the like. If there is debris, remove it. If it is chipped or cracked then the vacuum breaker must be replaced. Failure to do so may result in the vacuum breaker not working according to its design and could result in damage to the dishmachine.

Removing the plunger

6. Your repair kit comes with a new plunger. Examine the old one and ensure that the mating surface is not damaged or cut. Also inspect the rubber seal on the top of the plunger to ensure it is in good condition and not torn.

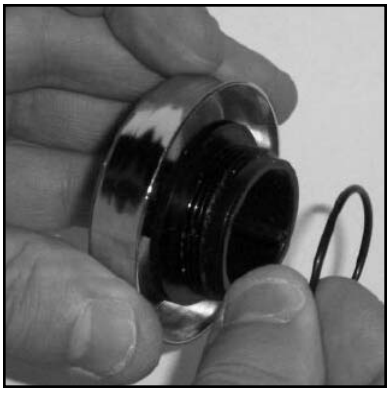
Examining the seal ring on the plunger

Examining the plunger seating surface

7. If any of these conditions are present, replace the old plunger with the new one from your kit. Verify that the new plunger is also free from defects. If it is not, contact Jackson immediately.

8. The plunger should drop into the vacuum breaker and seat. Ensure it is not flipped upside down (the orange seal ring should be up towards the top of the vacuum breaker).

9. Pick up the cap and examine it. With a soft towel, remove any grit, grime or debris that may have gotten caught in the threads of both the cap retainer or the vacuum breaker body. There is an O-ring that should be present on the cap retainer as well. Regardless of the condition of the plunger, this O-ring should be replaced once the cap is removed. Using a small flathead screwdriver, remove the old O-ring.



Replacing the O-ring

10. With the new O-ring in place, screw the cap back on the vacuum breaker body. The cap needs to only be hand tight (snug).

AFTER MAINTENANCE ACTIONS

1. Reconnect the incoming water (if disconnected) and turn on. Then restore power to the unit. Run the unit for at least 10 minutes to ensure there are no leaks. If any problems arise please contact Jackson.

SPECIAL PARTS

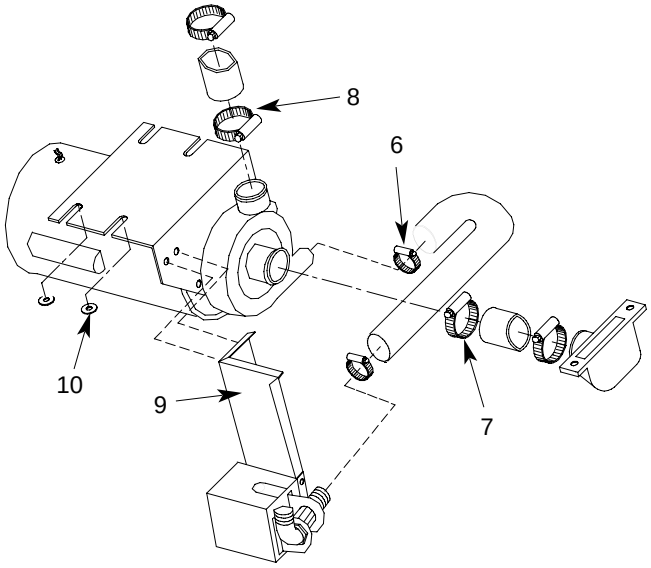
Vacuum breaker repair kit:
For 1/2” NPT order 06401-003-06-23

Complete Vacuum Breaker Assembly
Part number 04820-003-06-13 (1/2”)

REPLACING THE PUMP MOTOR

The following list of tools will be needed to complete this procedure. 5/6" nutdriver, phillips screwdriver, 7/16" socket and ratchet, and 7/16" wrench.

1. Disconnect the electrical power to the dishwasher at the main circuit breaker box when servicing. Place a tag on the circuit box indicating the circuit is being repaired.
2. Disconnect power and conduit from dishmachine terminal block.
3. Turn off the water supply and disconnect the water supply line.
4. Disconnect the dishmachine drain hose from the kitchen's drain. Drain the machine of any water at this time.
5. Move the machine out and lay machine onto its back.
6. Use a 5/16" nutdriver to loosen the hose clamp and remove the pump hose to the drain valve.
7. Use a 5/16" nutdriver to loosen the hose clamp and remove the pump hose from the suction casting.
8. Use a 5/16" nutdriver to loosen the hose clamp and remove the pump hose from the discharge hub casting.
9. Use a 7/16" socket and ratchet, and a 7/16" wrench to remove the drain valve mounting bracket from the motor bracket.
10. Use a 7/16" socket and ratchet to remove the pump motor assembly by loosening the (4) locknuts securing the motor mounting bracket. NOTE: The motor mounting bracket is slotted to allow for easy removal and installation. Remove (2) of the locknuts on one side and slide the assembly toward that side and remove. Once the assembly is removed, disconnect the wire leads from the motor wiring box.
11. Install replacement motor in reverse order of above.

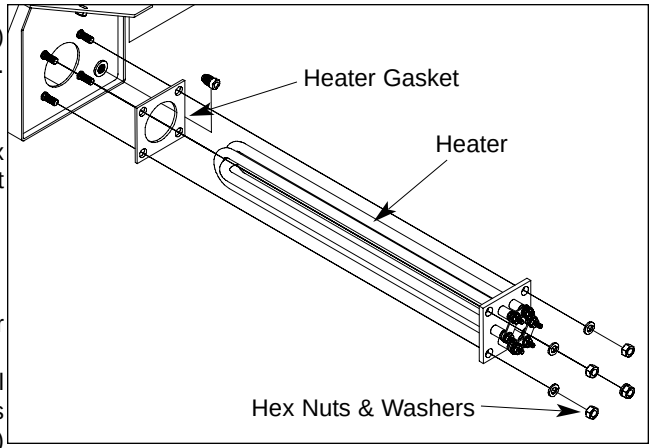


Replacing the Pump Motor

REPLACING THE BOOSTER TANK HEATER

The following list of tools will be needed to complete this procedure: phillips screwdriver and 1/2" socket and ratchet.

1. Disconnect the electrical power to the dishwasher at the main circuit breaker box when servicing. Place a tag on the circuit box indicating the circuit is being repaired.
2. Use the phillips screwdriver to remove the two screws from the bottom of the kick panel.
3. Disconnect power and conduit from dishmachine terminal block.
4. Turn off the water supply to the dishmachine.
5. **VERY IMPORTANT:** Disconnect wire lead (orange/white) from heater contactor coil. Note: Wire is tagged in electrical panel.
6. Drain water from booster tank.
7. Remove the wires from the heater.
8. Use a 1/2" socket and ratchet to remove the (4) 5/16-18 hex nuts and lock washers. Remove the heater and heater gasket from booster tank.
8. Install the replacement heater and gasket, the tighten firmly.
9. Connect wire leads to heater and tighten firmly.
10. Turn on water supply and power to dishmachine.
11. Place cycle switch in AUTO position and depress power switch to ON/FILL position.
12. **VERY IMPORTANT:** Run the dishmachine through several complete cycles and check water level in wash sump. If there is water in the wash sump, reconnect the wire lead (orange/white) previously removed from the heater contactor coil.



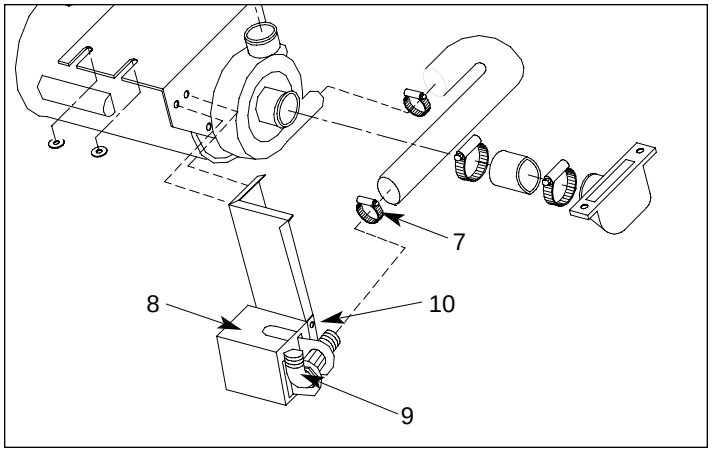
Replacing the Heater

13. Run the dishwasher through several cycles and check to see that rinse and wash temperatures are correct.

REPLACING THE DRAIN VALVE

The following list of tools will be needed to complete this procedure. 5/16" nutdriver, flat screwdriver, phillips screwdriver, and 7/16" socket and ratchet.

1. Disconnect the electrical power to the dishwasher at the main circuit breaker box when servicing. Place a tag on the circuit box indicating the circuit is being repaired.
2. Disconnect the power and conduit from dishmachine terminal block.
3. Turn off the water supply to the dishmachine.
4. Move the dishmachine away from the wall for servicing.
5. Use a 7/16" socket and ratchet to remove the lower enclosure panel at rear of machine.
6. Drain the dishmachine. Siphon out the water or remove inlet hose to drain valve and drain into pan. The dishmachine may be drained by opening the petcock on the pump housing or by removing the wash thermometer bulb from the lower wash tank.
7. Use a 5/16" nutdriver to loosen the hose clamp and remove the inlet hose to the drain valve from the pump motor.
8. Use a phillips screwdriver to remove the cover from the valve. Use a flat screwdriver to disconnect the lead wires and ground to the drain valve.
9. Use a 5/16" nutdriver to loosen the hose clamp and remove the discharge hose from the drain valve.
10. Use a phillips screwdriver to remove the screws attaching the drain valve to the mounting plate.
11. Reverse the procedures to install the new valve. **INSURE GROUND WIRE LEAD IS CONNECTED PROPERLY TO TERMINAL ON THE MOTOR.**



Replacing the Drain Valve

The instructions provided here are for maintenance personnel only. Unauthorized persons should not attempt any of the steps contained in these instructions.

Warning: many of the instructions and steps within this document require the use of tools. Only authorized personnel should ever perform any maintenance procedure on the dishmachine!

PREPARATION

1. Power must be shut off to the unit at the service breaker. Tag or lock out the service breaker to prevent accidental or unauthorized energizing of the machine.
2. Ensure that incoming water to the machine is shut off.
3. The unit must be drained completely with the drain stopper removed (if applicable).
4. Remove any and all access covers.

TOOLS REQUIRED

The following tools may be needed to perform this maintenance evolution:
1. Phillipshead Screwdriver

TIME REQUIRED

It is estimated that it will take (1) person sixty minutes to perform this task, not including all of the items indicated in the section entitled “PREPARATION”.

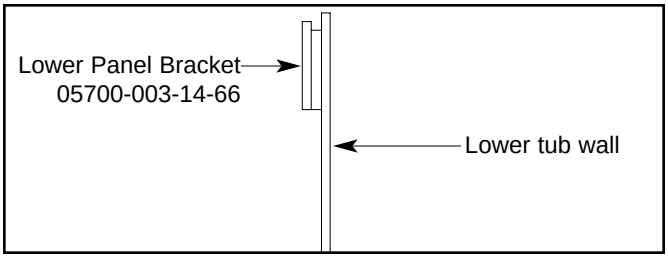
IMPORTANT NOTES

1. Read these instructions thoroughly before attempting this maintenance task. Become familiar with the parts and what actions need to be taken. This will save time in the long run!

STEPS

1. Using the phillipshead screwdriver, removed the kickpanel. Be careful not to pull out any gauges that may be connected to the panel.

2. Ensure that the surface of the dishmachine is clean and free of any chemical residues.

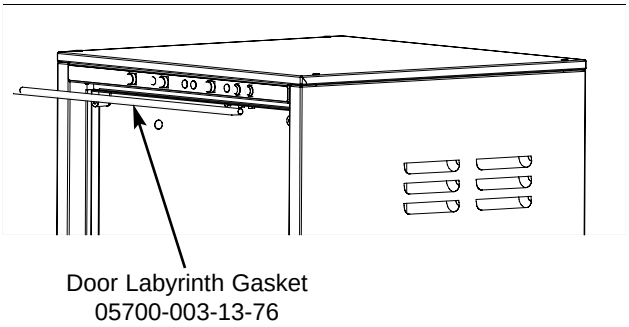


Placing the lower seal

3. Place the Lower Panel Bracket assembly on the unit, ensuring it is 1/16” below the lip of the tub. Press firmly to ensure proper placement.

4. Open the machine door to expose the labyrinth seal. Ensure it is free of chemical residues and debris.

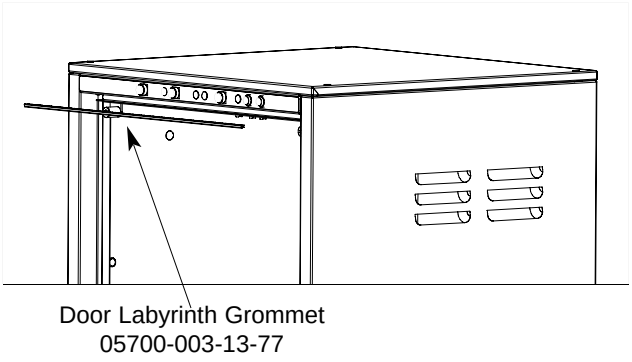
5. Insert the door gasket into the top of the labyrinth seal, ensuring that the rounded edge is facing inward and the flat edge is facing the bottom. Some of the gasket will hang over the edge of the labyrinth seal; it must be folded over and under the seal.



Installing the upper door gasket

Side profile showing placement of “P” gasket

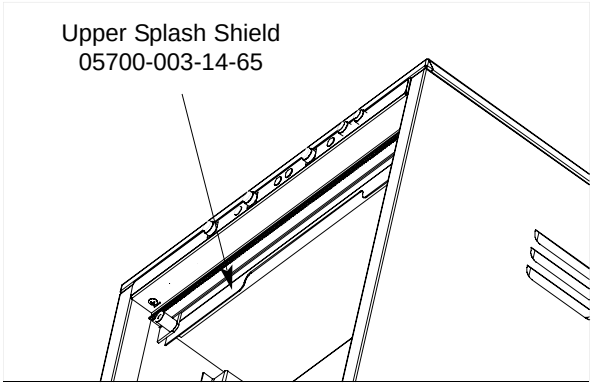
6. Take the Door Labyrinth Grommet and slide it over the portion of the door gasket that is hanging over the seal lip.



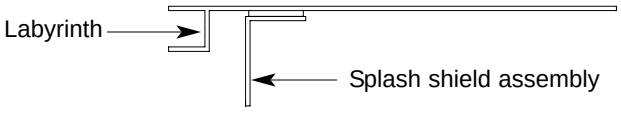
Installing the door labyrinth grommet

Side profile showing placement of door labyrinth grommet

7. Place the Splash Shield assembly inside the tub, centered on the door. The taped edge goes against the top of the tub so that the 1 1/4" lip hangs down. Position 1/2" from the backside of the labyrinth.



Positioning the Splash Shield inside the tub



Placement of the splash shield assembly

AFTER MAINTENANCE ACTIONS

Run the machine through several cycles to ensure that the gasket is sealing properly.

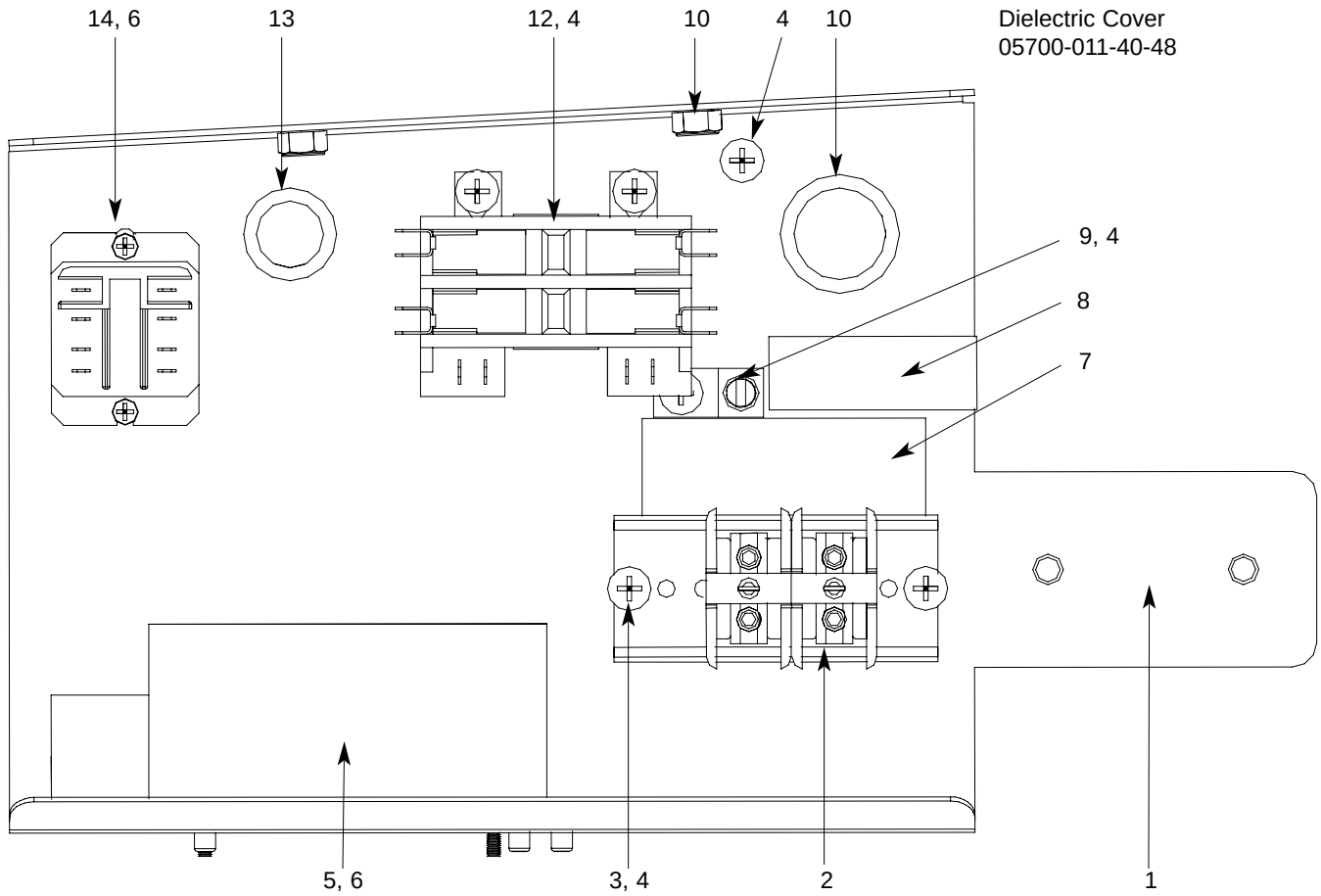
SPECIAL PARTS

Door Gasket Kit: 06401-003-14-64

SECTION 6:
PARTS SECTION

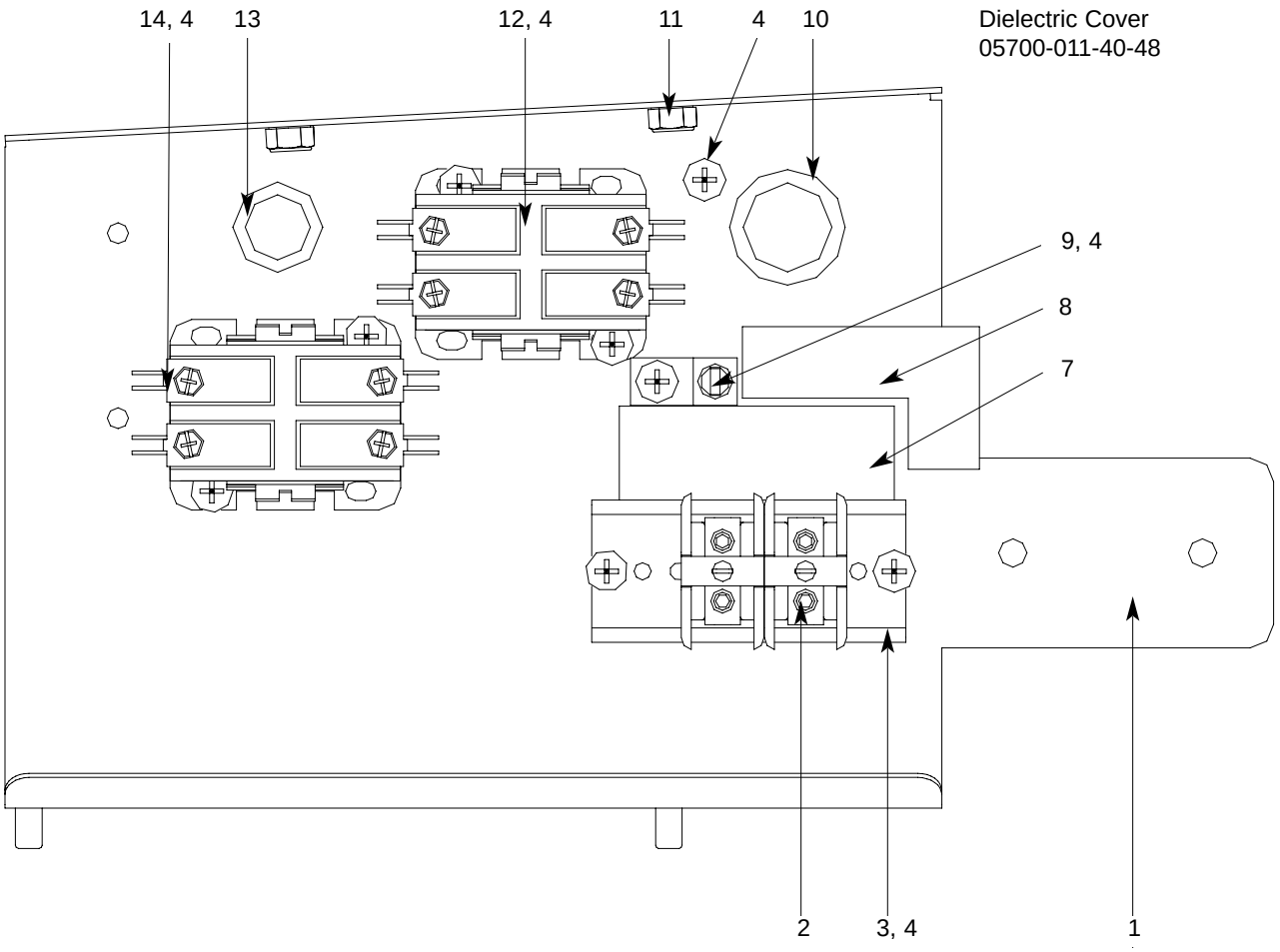
SECTION 6: PARTS SECTION

CONTROL PANEL ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Electrical Panel Weldment (JPX-300H/HC/HN)	05700-002-70-59
1	1	Electrical Panel Weldment (JPX-300L)	05700-002-77-07
2	1	Block, Curtis	05945-500-02-19
3	1	Track, Terminal	05700-000-43-60
4	7	Screw, 10-32 x 3/8”	05305-173-12-00
5	1	Timer, 120 Sec. 50HZ (JPX-300H/HC/HN)	05945-003-02-18
5	1	Timer, 120 Sec. 60HZ (JPX-300H/HC/HN)	05945-003-02-90
5	1	Timer, 120 Sec. 60HZ (JPX-300L)	05945-121-49-56
5	1	Timer, 5 Min. 60HZ (JPX-300H/HC/HN)	05945-003-02-90
5a	1	Decal, Timer	09905-002-73-22
6	6	Screw, 6-32 x 3/4”	05305-171-07-00
7	1	Decal, Copper	09905-011-47-35
8	1	Decal, Ground	09905-011-40-82
9	1	Lug, Ground	05940-200-76-00
10	1	Grommet, 1 1/8”	05975-210-08-00
11	2	Locknut, 1/4”-20 S/S Hex with Nylon Insert	05310-374-01-00
12	1	Contactor, Heater (JPX-300H/HC/HN)	05945-002-74-20
12	1	Terminal Board (JPX-300L)	05940-021-94-85
13	1	Bushing, Snap	05975-210-03-00
14	Older models used a relay that is shown. Newer models now use a contactor.		
14	1	Contactor, Motor (JPX-300L)	05945-109-05-69
14	1	Contactor, Motor (JPX-300H/HC/HN)	05945-002-74-20

CONTROL PANEL ASSEMBLY (UNIVERSAL TIMER)



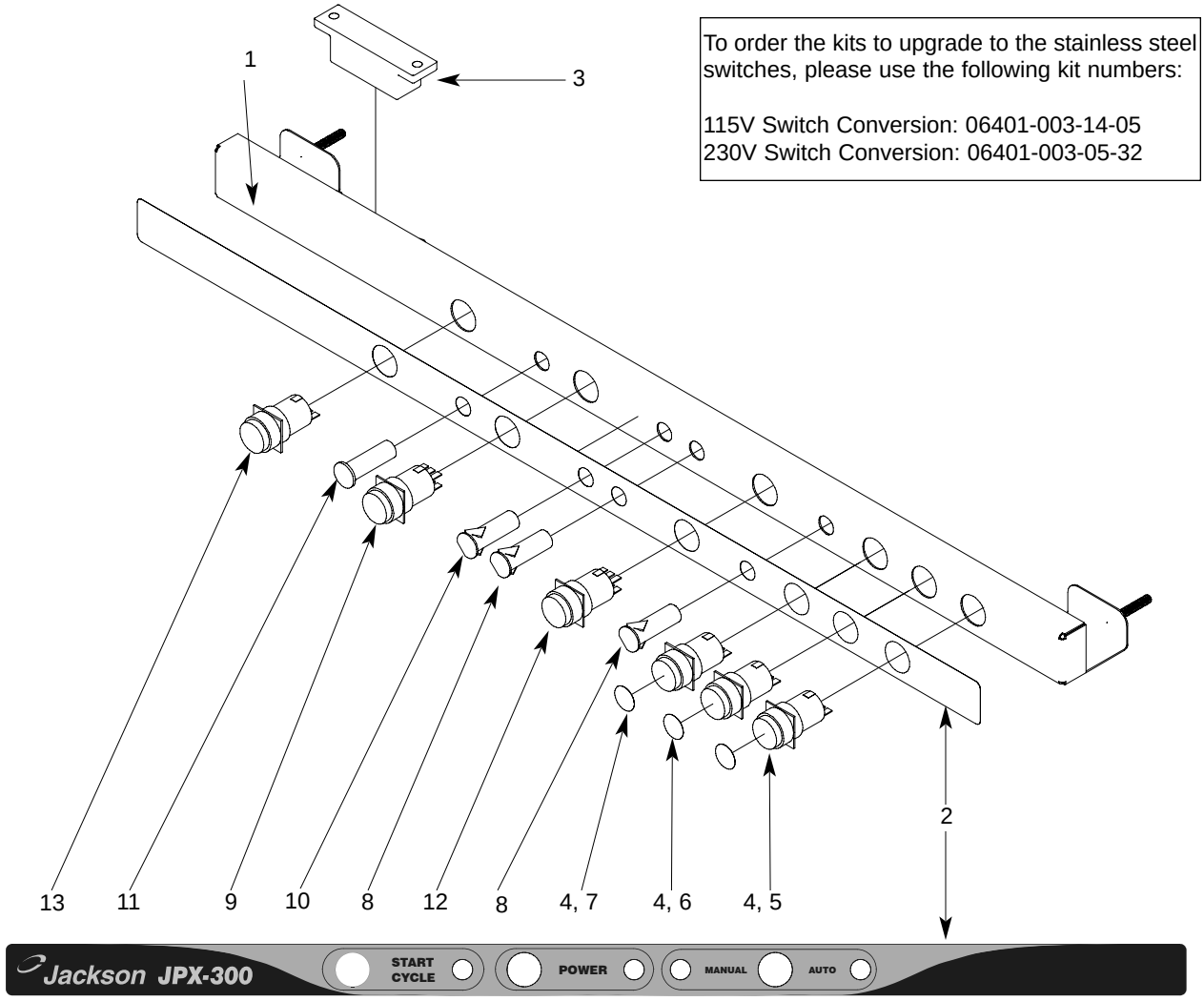
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Electrical Panel Weldment	05700-003-12-83
2	1	Block, Curtis	05945-500-02-19
3	1	Track, Terminal	05700-000-43-60
4	8	Screw, 10-32 x 3/8”	05305-173-12-00
5	1	Universal Timer (Not Shown, Connects to the Kick Panel)	05945-003-07-48
6	6	Holder, Keystone (Not Shown, Connects to the Kick Panel)	05940-002-21-87
7	1	Decal, Copper	09905-011-47-35
8	1	Decal, Ground	09905-011-40-82
9	1	Lug, Ground	05940-200-76-00
10	1	Grommet, 1 1/8”	05975-210-08-00
11	2	Locknut, 1/4”-20 S/S Hex with Nylon Insert	05310-374-01-00
12	1	Contactor (JPX-300H/HC/HN)	05945-002-74-20
12	1	Terminal Board (JPX-300L)	05940-021-94-85
13	1	Bushing, Snap	05975-210-03-00
14	1	Contactor (JPX-300L)	05945-109-05-69
14	1	Contactor (JPX-300H/HC/HN)	05945-002-74-20

SECTION 6: PARTS SECTION

SWITCH PANEL ASSEMBLY

To order the kits to upgrade to the stainless steel switches, please use the following kit numbers:

115V Switch Conversion: 06401-003-14-05
230V Switch Conversion: 06401-003-05-32



(For reference only.)

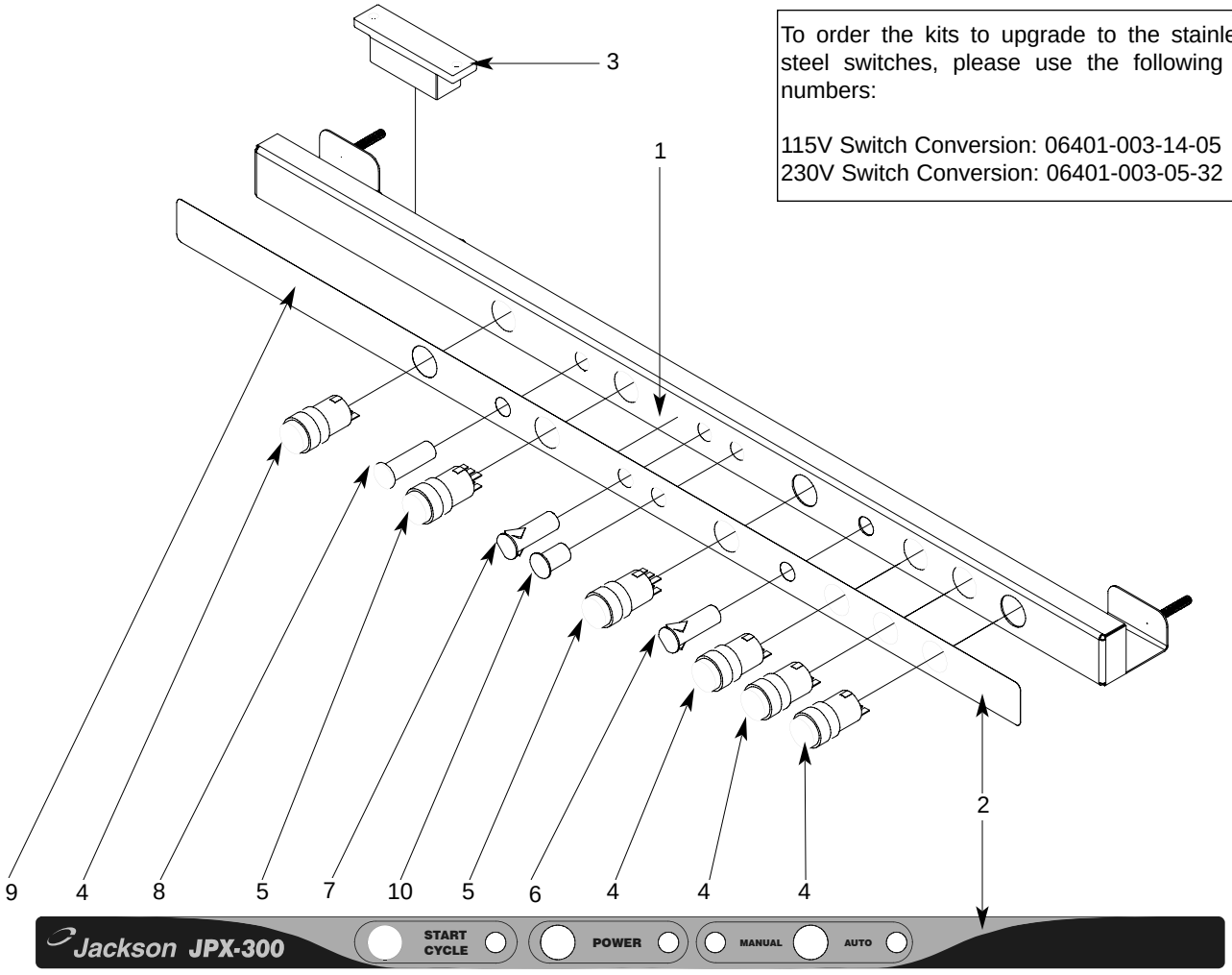
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Switch Panel Weldment	05700-002-71-11
1	1	Switch Panel Weldment (JPX-300HC ONLY)	05700-002-99-03
2	1	Decal, Control Panel	09905-002-60-13
2	1	Decal, Control Panel (JPX-300HC ONLY)	09905-002-94-95
3	1	Switch, Yellow Reed	05930-003-02-20
4	3	Switch, Prime (Optional) (Quantities change for each model designation.)	05930-002-68-27
5	1	Decal, Sanitizer Switch (JPX-300L ONLY)	09905-002-70-80
6	1	Decal, Rinse Aid Switch	09905-002-70-81
7	1	Decal, Detergent Switch	09905-002-70-79
8	2	Light, Green	05945-504-08-18
9	1	Power Switch	05930-002-43-44
10	1	Light, Red	05945-504-07-18
11	1	Light, Amber	05945-504-06-18
12	1	Manual Switch	05930-002-43-44
13	1	Start Cycle Switch	05930-002-68-27
14	1	Cycle Counter (JPX-300HC ONLY)	05990-111-47-42

SECTION 6: PARTS SECTION

SWITCH PANEL ASSEMBLY FOR USE WITH STAINLESS STEEL SWITCHES

To order the kits to upgrade to the stainless steel switches, please use the following kit numbers:

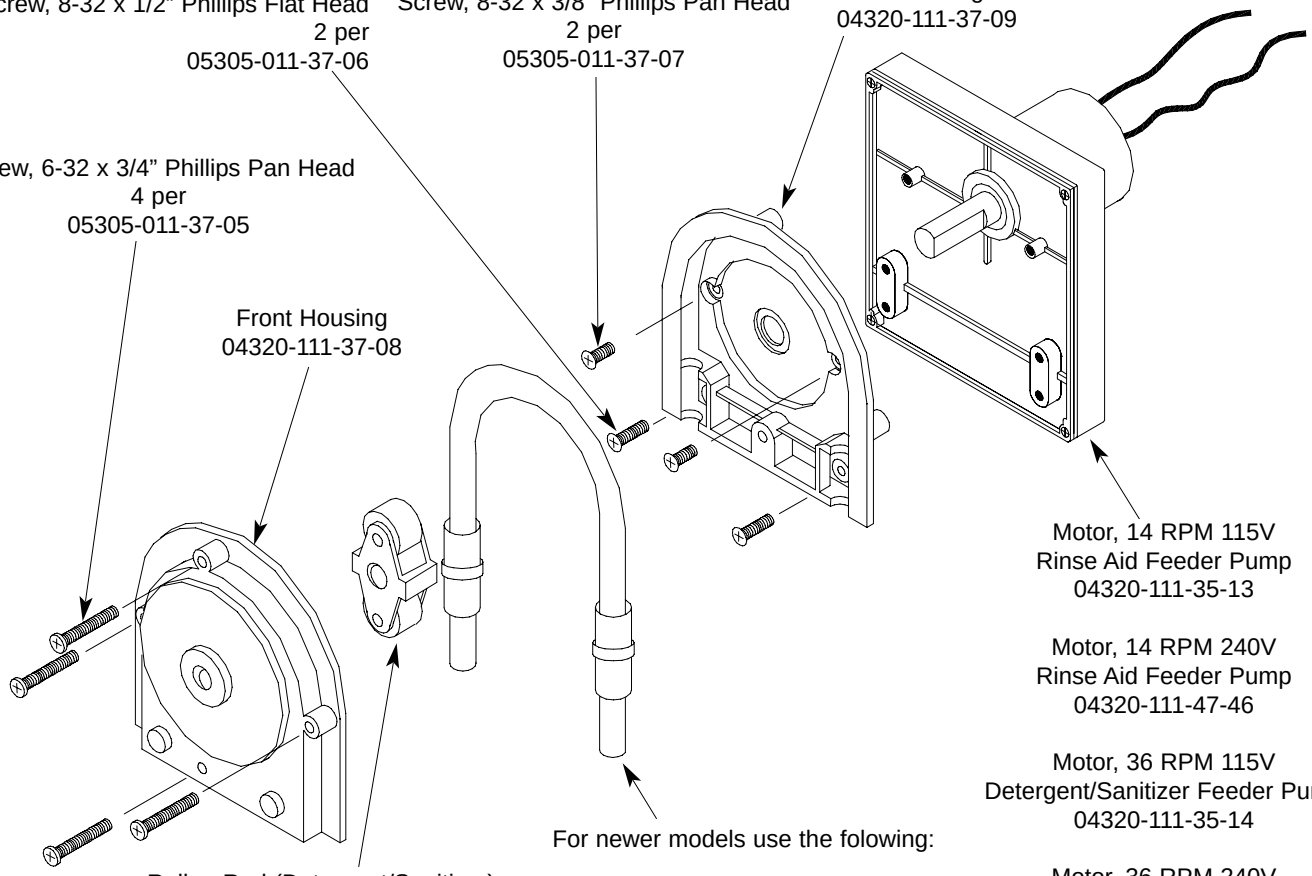
115V Switch Conversion: 06401-003-14-05
230V Switch Conversion: 06401-003-05-32



(For reference only.)

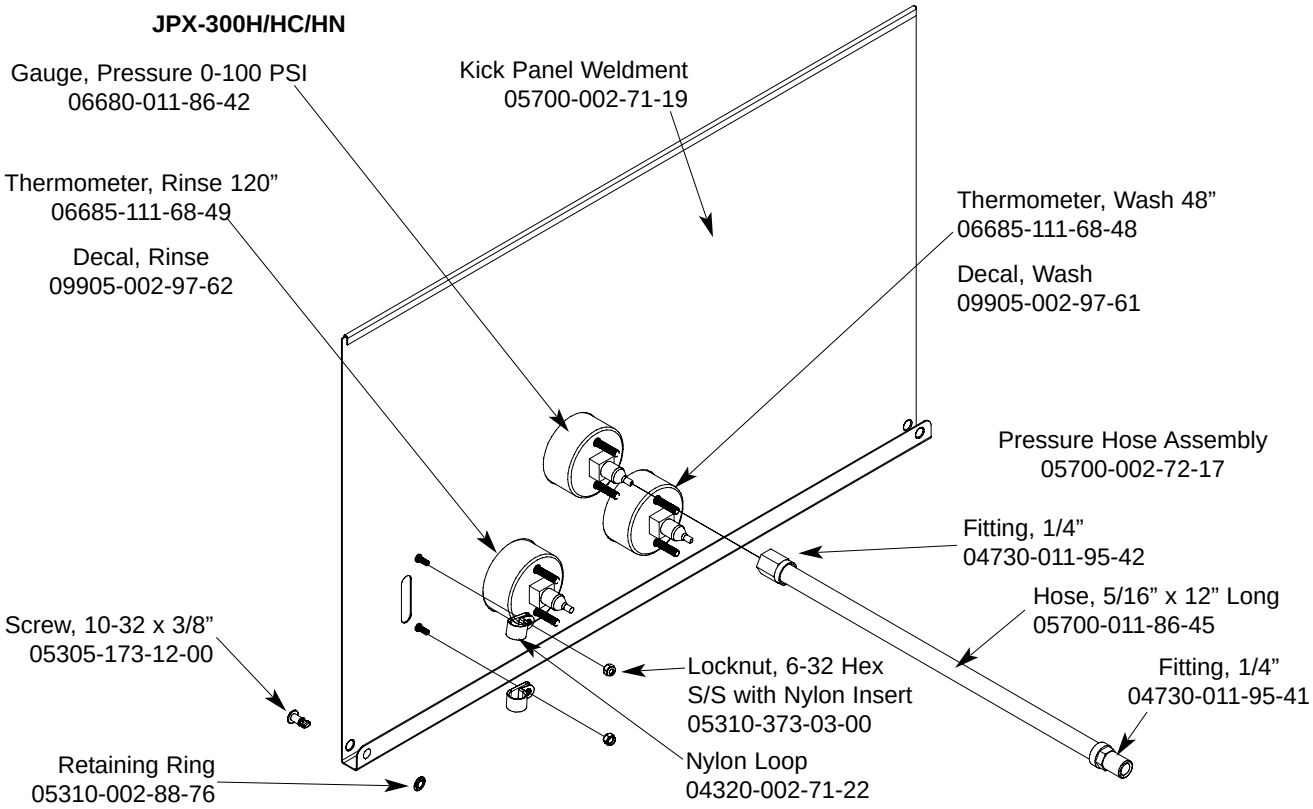
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Switch Panel Weldment	05700-003-02-65
1	1	Switch Panel Weldment (JPX-300HC ONLY)	05700-002-99-03
2	1	Decal, Control Panel	09905-002-60-13
2	1	Decal, Control Panel (JPX-300HC ONLY)	09905-002-94-95
3	1	Switch, Yellow Reed	05930-003-02-20
4	N/A	Switch, Prime Assembly (Quantities change for each model)	05700-003-14-91
	1	Switch, Prime (Quantities change for each model)	05930-003-05-30
	1	Switch O-ring	05330-003-14-90
5	1	Power Switch Assembly	05700-003-14-92
	1	Switch, Power	05930-003-05-29
	1	Switch O-ring	05330-003-14-90
6	1	Light, Green	05945-504-08-18
7	1	Light, Red	05945-504-07-18
8	1	Light, Amber	05945-504-06-18
9	1	Cycle Counter (Not Shown)(JPX-300HC ONLY)	05990-111-47-42
10	1	Heyco Plug	05975-002-97-82

CHEMICAL FEEDER PUMP ASSEMBLY

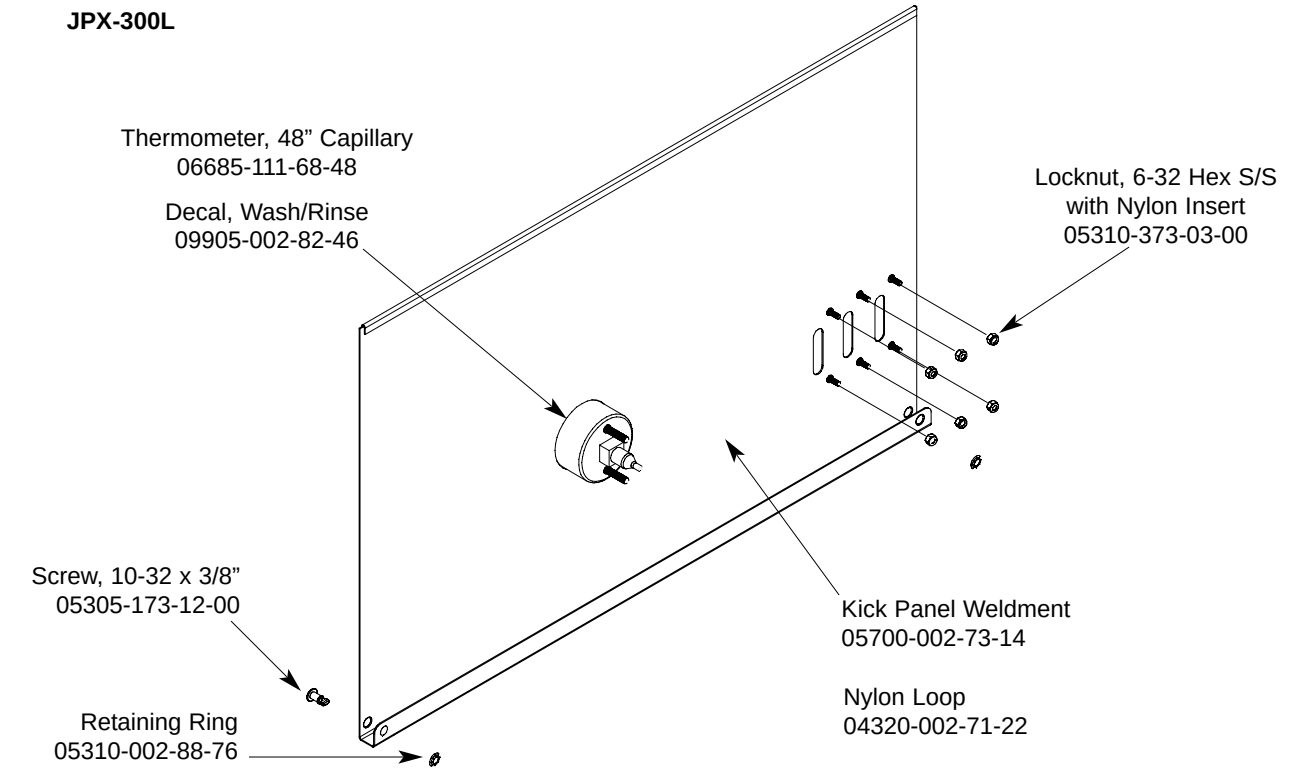


KICK PANEL ASSEMBLIES

JPX-300H/HC/HN



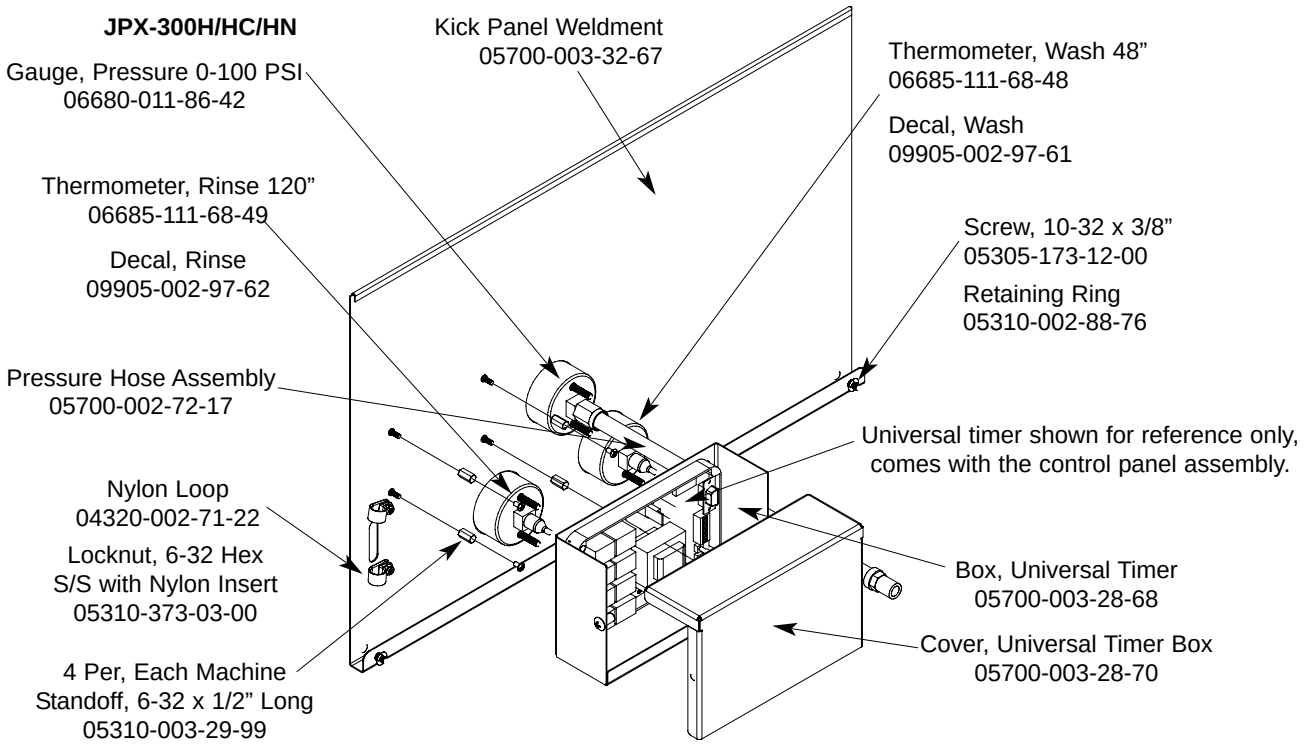
JPX-300L



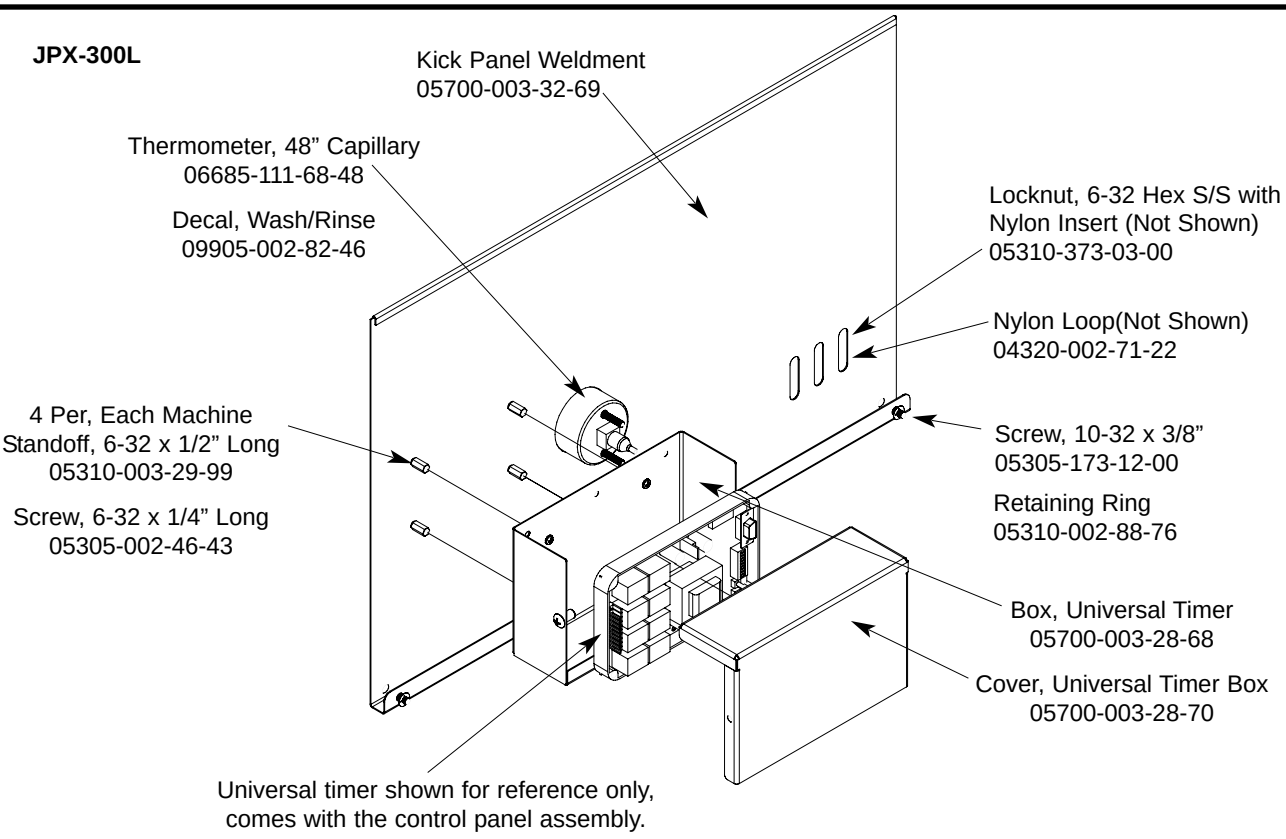
SECTION 6: PARTS SECTION

KICK PANEL ASSEMBLIES FOR USE WITH UNIVERSAL TIMER

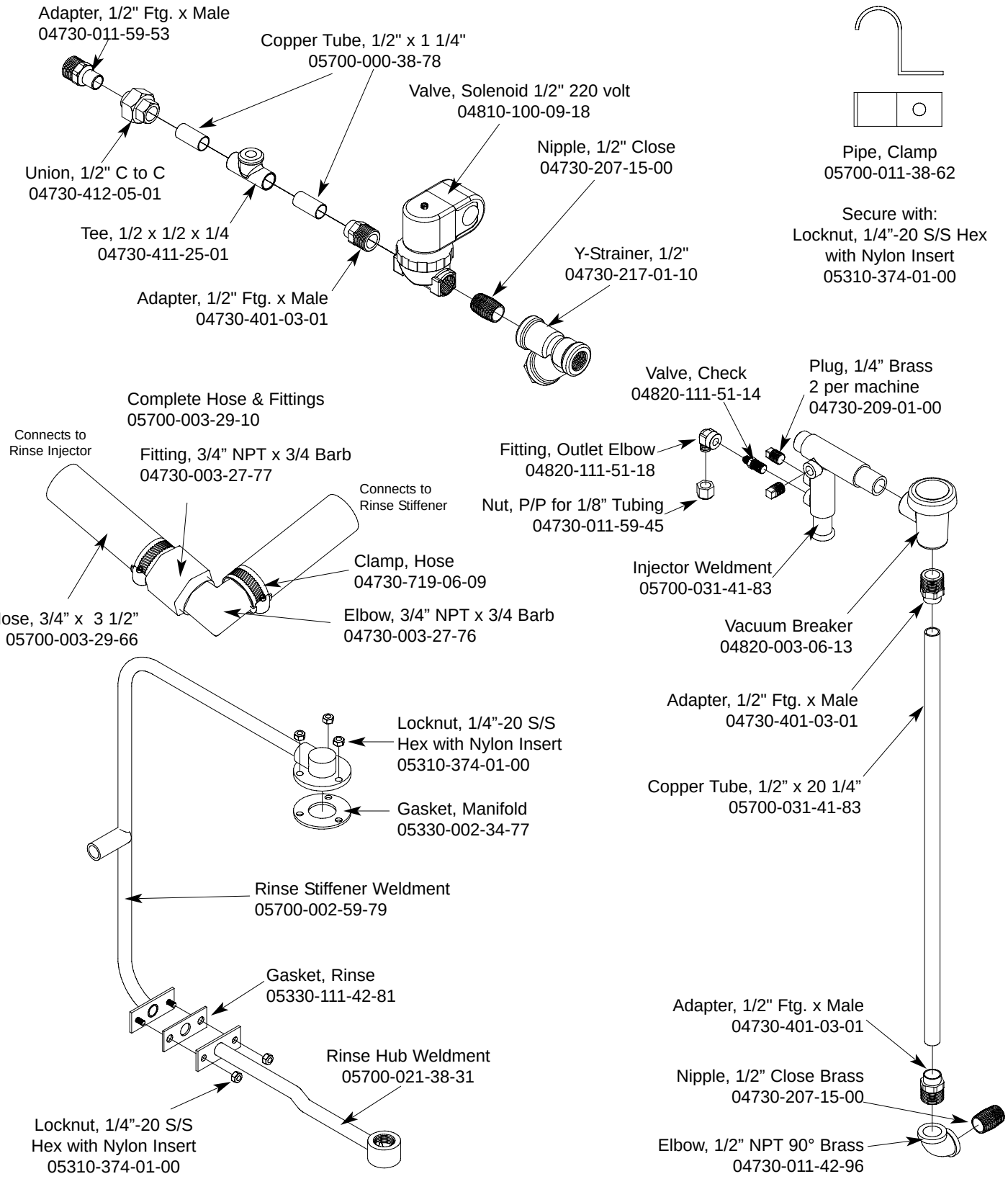
JPX-300H/HC/HN



JPX-300L



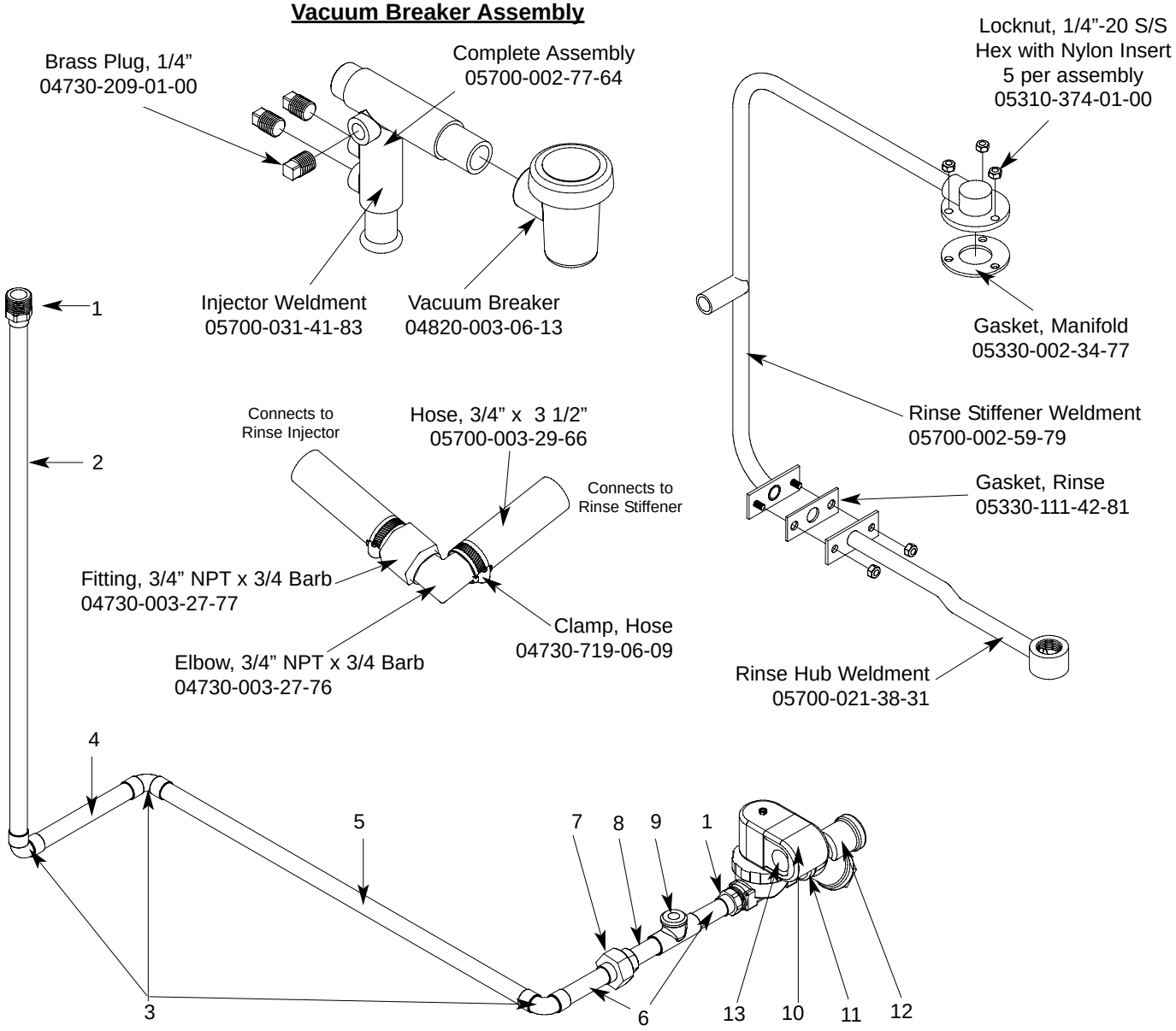
PLUMBING ASSEMBLIES (JPX-300H/HC)



SECTION 6: PARTS SECTION

PLUMBING ASSEMBLY (JPX-300HN)

Vacuum Breaker Assembly

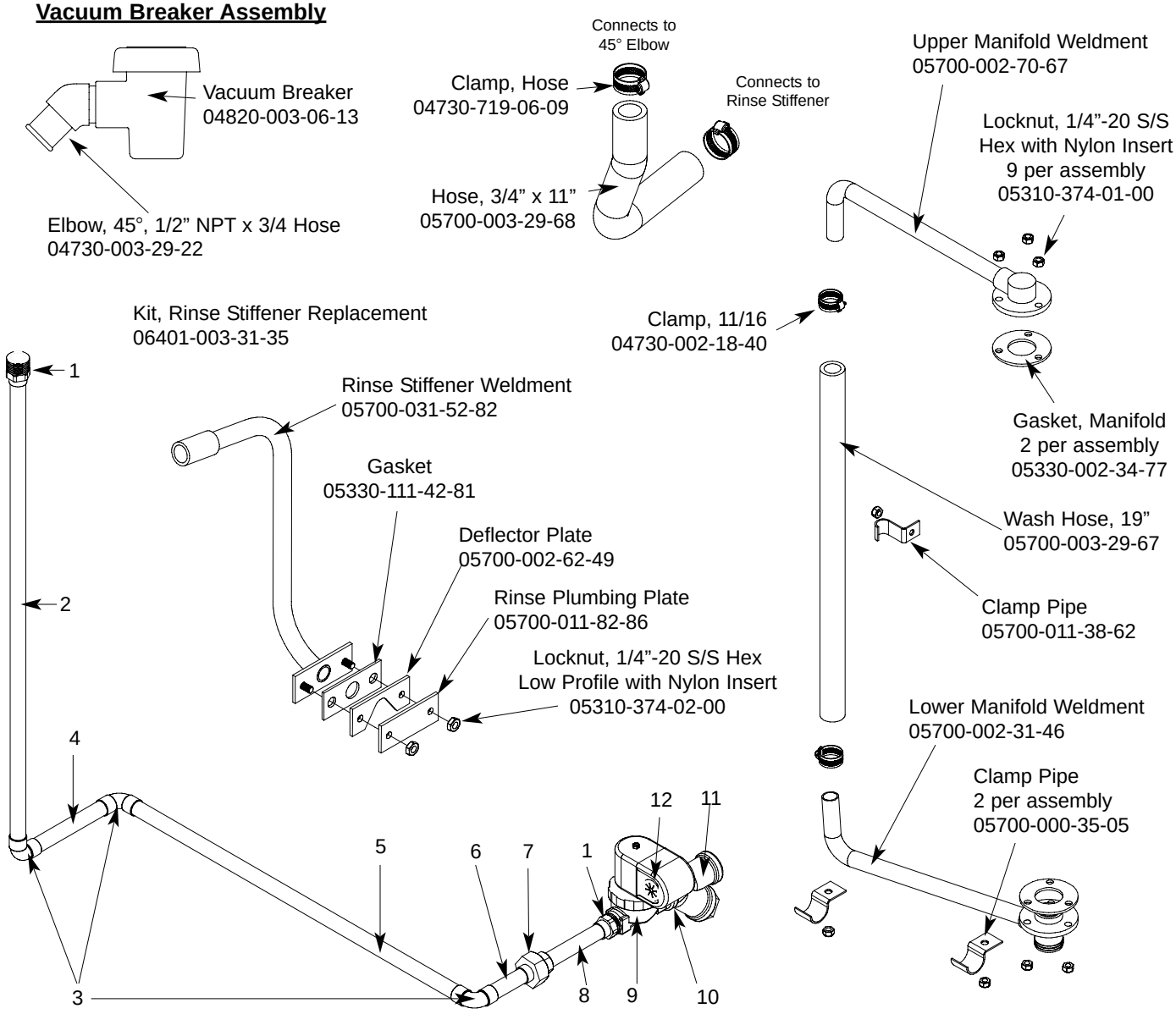


ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Adapter, 1/2" Ftg. x Male	04730-401-03-01
2	1	Copper Tube, 1/2" x 23 1/4"	05700-002-70-65
3	3	Elbow, 1/2", 90° C to C	04730-406-01-01
4	1	Copper Tube, 1/2" x 4 1/2"	05700-011-59-83
5	1	Copper Tube, 1/2" x 19 1/8"	05700-002-70-66
6	2	Copper Tube, 1/2" x 2"	05700-001-04-66
7	1	Union, 1/2" C to C	04730-412-05-01
8	1	Copper Tube, 1/2" x 1 1/4"	05700-001-08-28
9	1	Tee, 1/2" C x 1/2" C x 1/4" Female	04730-411-25-01
10	1	Valve, Solenoid 1/2" 115 volt	04810-100-12-18
10	1	Valve, Solenoid 1/2" 220 volt	04810-100-09-18
11	1	Nipple, 1/2" Close	04730-207-15-00
12	1	Y-Strainer, 1/2"	04730-217-01-10
13	1	Bushing, Heyco Split	05975-200-40-00

SECTION 6: PARTS SECTION

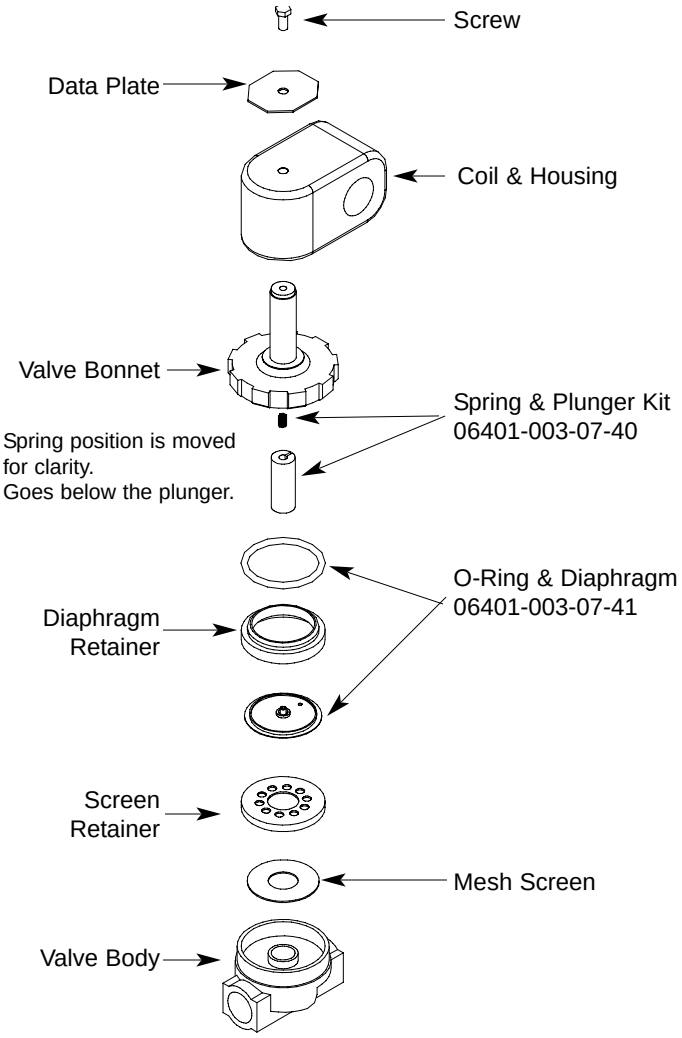
PLUMBING ASSEMBLY (JPX-300L)

Vacuum Breaker Assembly



ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Adapter, 1/2" Ftg. x Male	04730-401-03-01
2	1	Copper Tube, 1/2" x 23 1/4"	05700-002-70-65
3	3	Elbow, 1/2", 90° C to C	04730-406-01-01
4	1	Copper Tube, 1/2" x 4 1/2"	05700-011-59-83
5	1	Copper Tube, 1/2" x 19 1/8"	05700-002-70-66
6	1	Copper Tube, 1/2" x 2"	05700-001-04-66
7	1	Union, 1/2" C to C	04730-412-05-01
8	1	Copper Tube, 1/2" x 3 3/4"	05700-002-31-40
9	1	Valve, Solenoid 1/2" 115 volt	04810-100-12-18
9	1	Valve, Solenoid 1/2" 220 volt	04810-100-09-18
10	1	Nipple, 1/2" Close	04730-207-15-00
11	1	Y-Strainer, 1/2"	04730-217-01-10
12	1	Bushing, Heyco Split	05975-200-40-00

RINSE SOLENOID VALVE & VACUUM BREAKER REPAIR PARTS KITS/WATER PRESSURE REGULATOR KIT OPTION

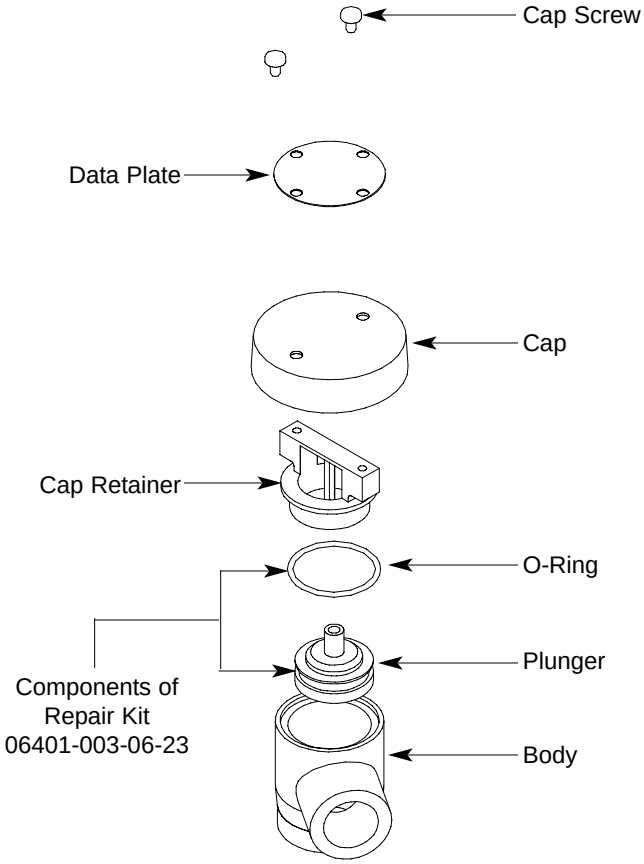


Complete 110 Volt Solenoid Valve Assembly, 1/2”
04810-100-12-18

Coil & Housing only, 1/2”
06401-003-07-43

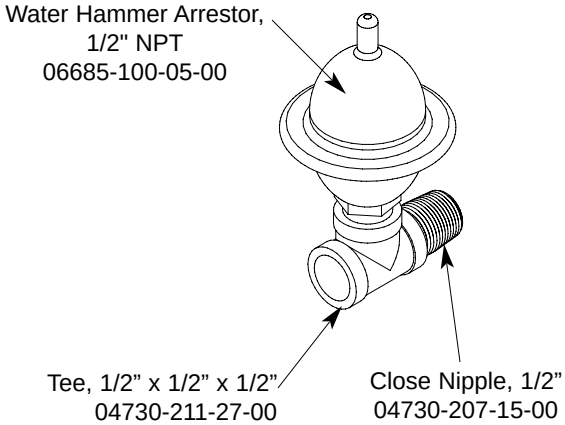
Complete 220 Volt Solenoid Valve Assembly, 1/2”
04810-100-09-18

Coil & Housing only, 1/2”
06401-003-07-44



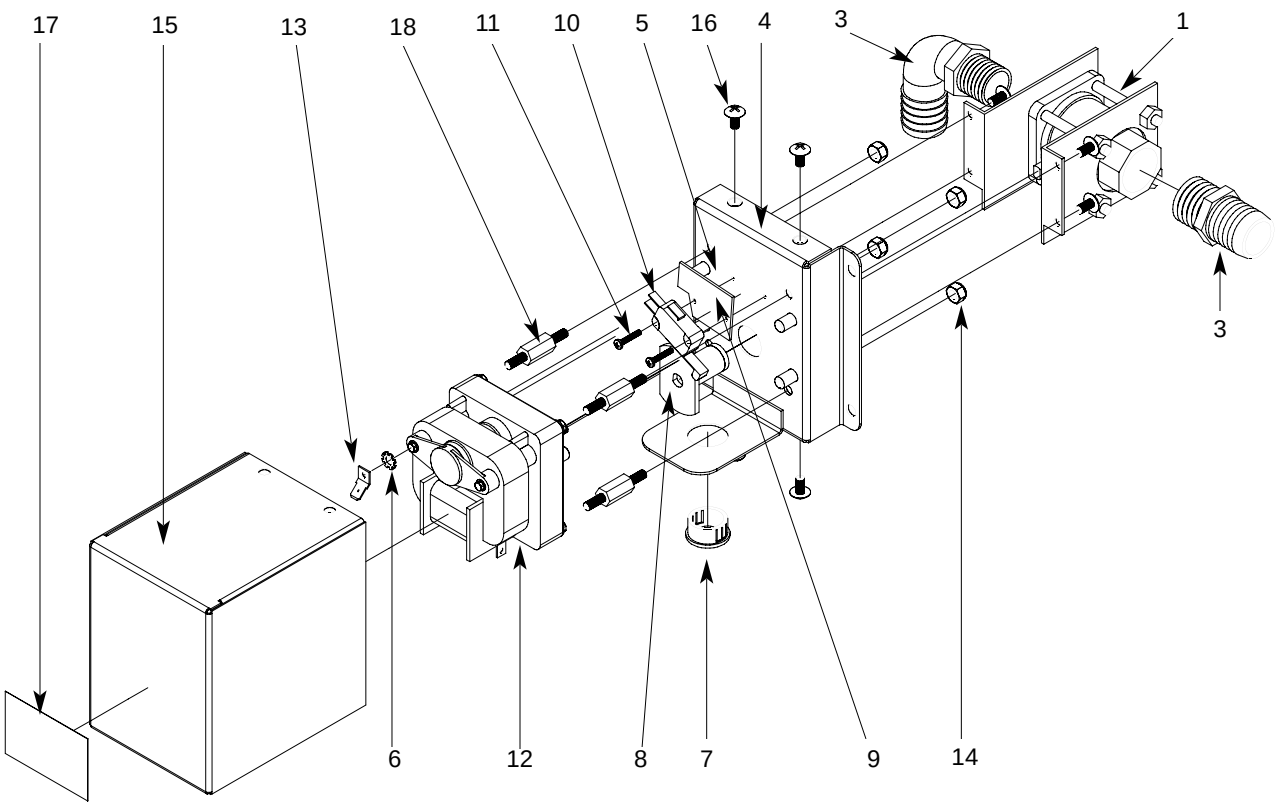
Complete Vacuum Breaker Assembly, 1/2” NPT
04820-003-06-13

Complete WPRK Assembly
05700-002-64-67



SECTION 6: PARTS SECTION

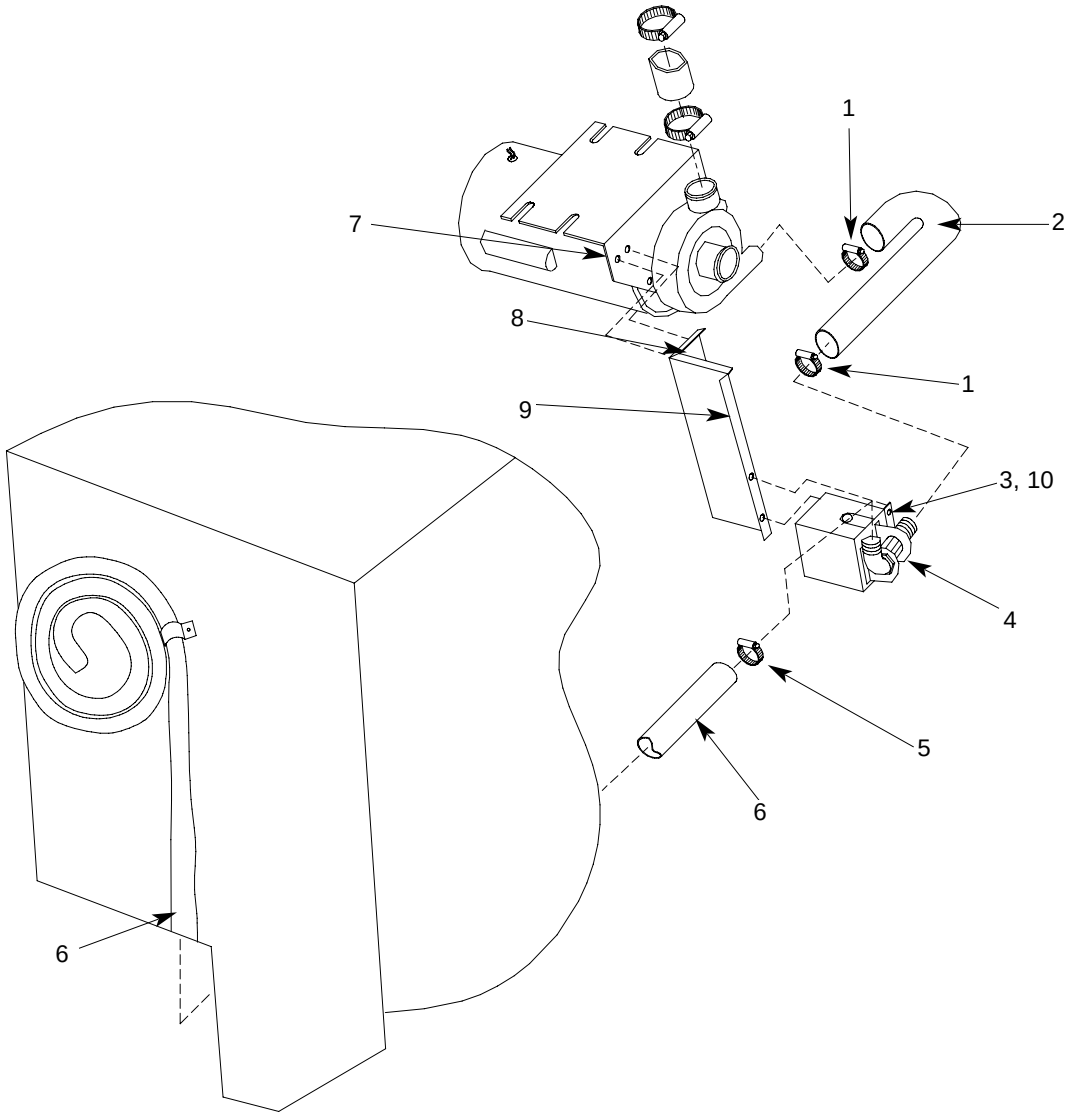
DRAIN VALVE ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
	1	Diverter Valve Assembly, 115 Volt	06401-012-23-21
	1	Diverter Valve Assembly, 220 Volt	06401-022-23-21
1	1	Valve, With Brackets	05700-002-23-28
2	1	Hosebarb, 1” x 3/4” NPT Polypropylene	04730-011-65-86
3	1	Hosebarb, 90° 1” x 3/4” NPT	04730-011-65-87
4	1	Plate, Motor Mounting Weldment	05700-031-96-02
5	4	Tricnut, 10-32 AK Fastener, S/S	05340-111-58-10
6	1	Lockwasher, #10 External Tooth	05311-273-02-00
7	1	Grommet, Heyco	05975-210-03-00
8	1	Cam Weldment	05700-011-65-78
9	1	Plate, Dielectric	05700-011-65-80
10	1	Switch, Micro	05930-011-65-81
11	2	Screw, 4-40 x 5/8"	05305-011-49-70
12	1	Motor, Chemical Feeder Pump 14 RPM 220 Volt	04320-011-79-34
12	1	Motor, Chemical Feeder Pump 14 RPM 115 Volt	04320-111-35-13
13	1	Terminal, Ground Spade	05940-011-75-70
14	4	Locknut, 10-32 S/S Hex with Nylon Insert	05310-373-02-00
15	1	FW-Valve, Cover	05700-031-65-70
16	4	Screw, 10-32 x 3/8” Truss Head	05305-173-12-00
17	1	Decal, Warning-Disconnect Power	09905-100-75-93
18	4	Screw, Mounting	05305-011-93-30

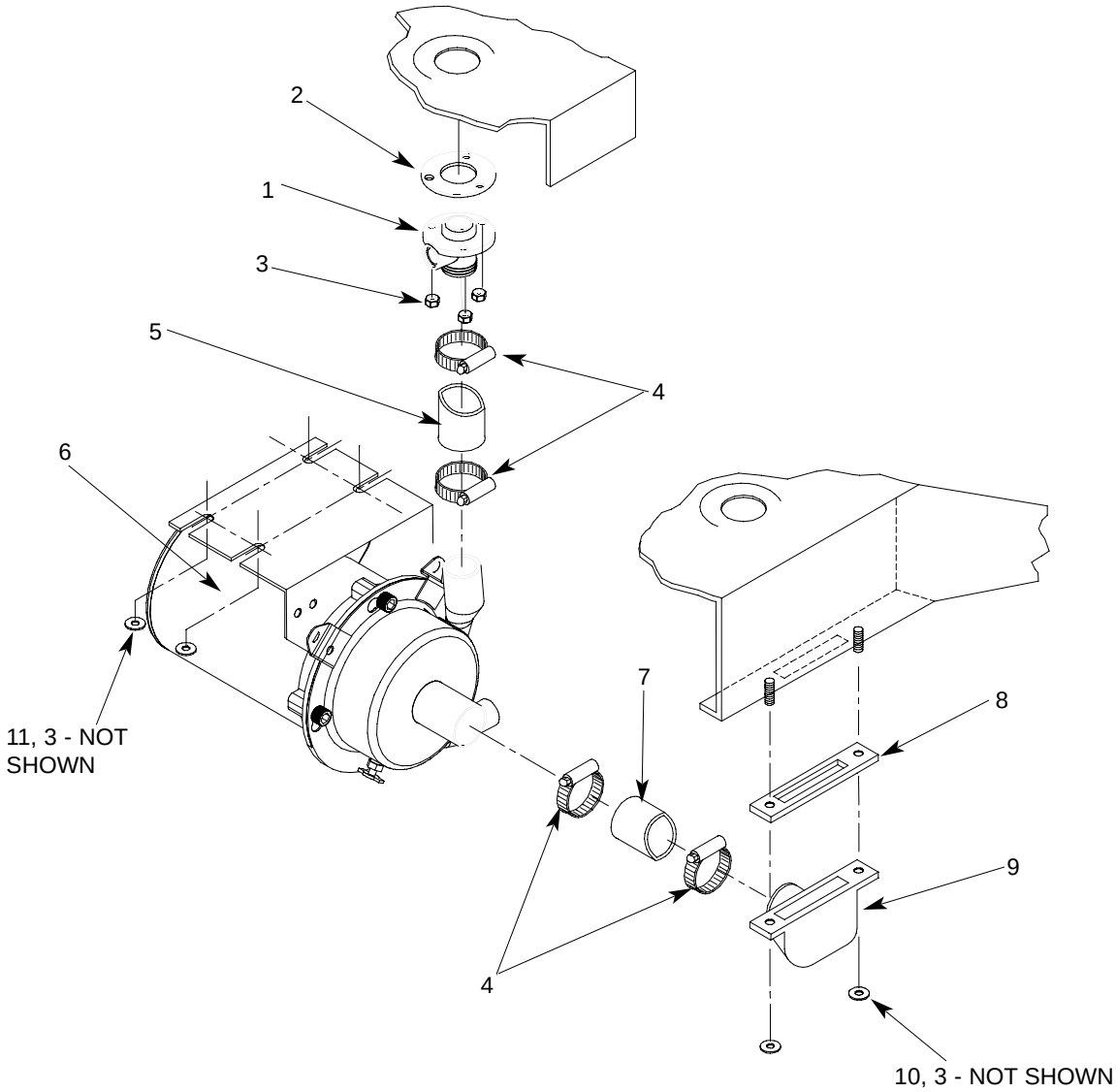
SECTION 6: PARTS SECTION

DRAIN PLUMBING ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	3	Clamp, 3/16” to 1 1/2”	04730-719-06-09
2	1	Hose, Formed Drain	04720-121-40-36
2	1	Hose, 8” Straight Drain (For use with pump assembly with 180 Deg. Elbow)	04720-003-27-95
3	2	Bolt, 10-32 x 1/2” Slotted Truss Head	05305-173-04-00
4	1	Diverter Valve Assembly, 115 Volt	06401-012-23-21
4	1	Diverter Valve Assembly, 220 Volt	06401-022-23-21
5	1	Clamp, 11/16” to 1 1/4”	04730-002-18-40
6	1	Hose, 1” I.D. x 10 Feet Long	05700-011-39-72
7	2	Locknut, 1/4”-20 S/S Hex with Nylon Insert	05310-374-01-00
8	2	Bolt, 1/4”-20 x 1/2” Long	05305-274-02-00
9	1	Bracket, Valve Mounting with Tricnuts	05700-021-66-37
10	2	Washer, #10 External Tooth Star	05311-273-02-00

WASH MOTOR TO WASH TUB ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Lower Wash Manifold Weldment (Shown: JPX-300H/HC/HN Models Only)	05700-002-71-27
1	1	Lower Wash Manifold Weldment (JPX-300L Models Only)	05700-002-31-46
2	1	Gasket, Manifold	05330-002-34-77
3	9	Locknut, 1/4”-20 S/S	05310-374-01-00
4	4	Hose Clamp, 1 5/16" - 2 1/4", #28	04730-719-01-37
5	1	Hose,1 1/4” x 2 1/4” Reinforced	05700-011-44-48
6	1	See Motor and Pump Assembly Page	N/A
7	1	Hose, Bottom Manifold Pump	05700-001-22-92
8	1	Gasket, Suction Adapter	05330-021-40-87
9	1	Casting, Suction Adapter	09515-031-39-86
10	2	Washer, S/S 1/4”-20 I.D.	05311-174-01-00
11	4	Washer, 1/4” I.D. x 3/4” O.D. S/S	05311-011-76-30

SECTION 6: PARTS SECTION

MOTOR & PUMP ASSEMBLY

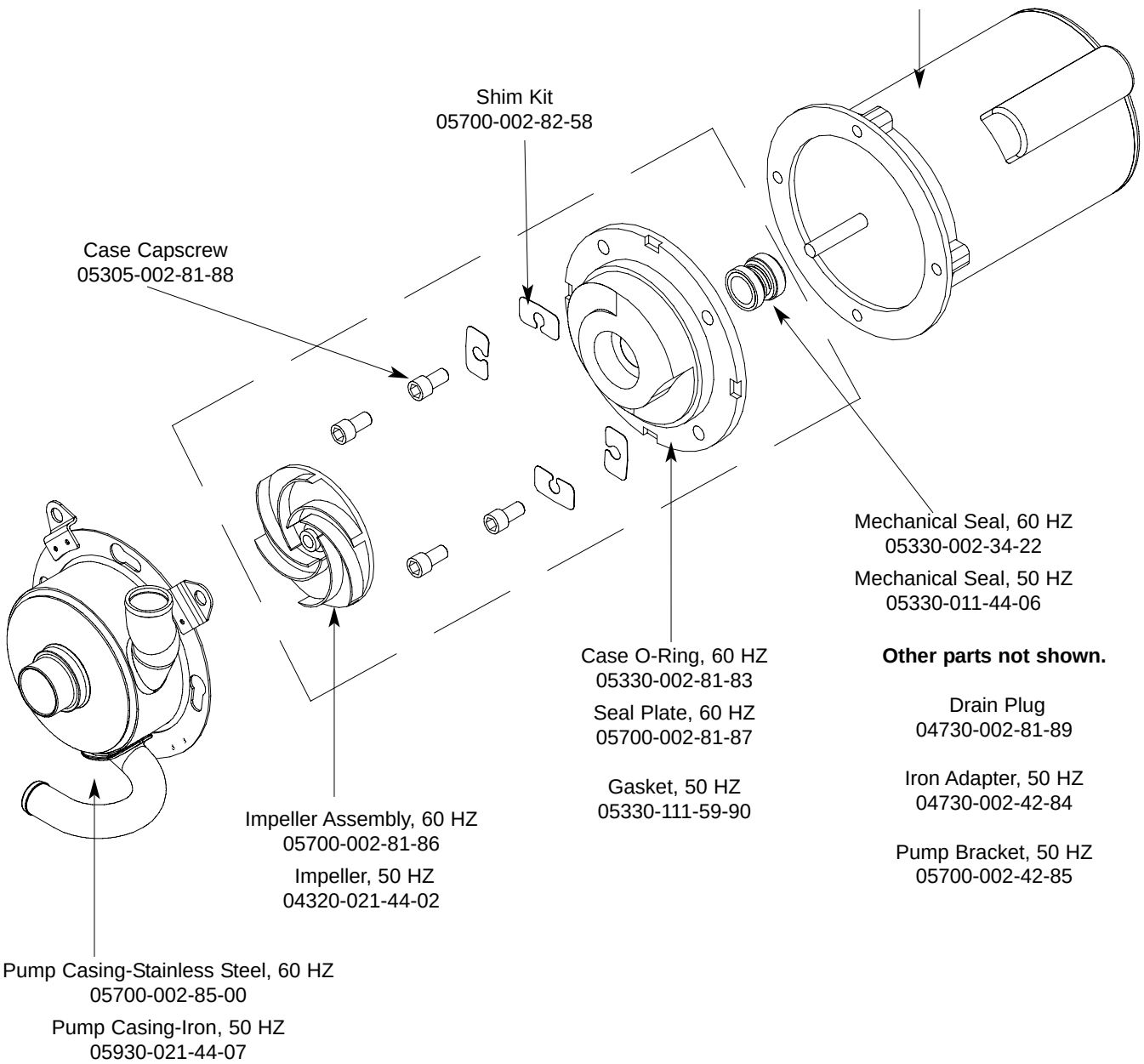
Complete Pump & Motor Assembly, 60 HZ
06105-002-72-75

Complete Pump & Motor Assembly, 50 HZ
06105-002-19-43

Pump Only Assembly, 60 HZ
(Area indicated within box, Casing is included)
05700-002-79-50

Motor Only, 50 HZ
06105-003-19-78

Motor Only, 60 HZ
06105-002-79-61



Shim Kit
05700-002-82-58

Case Capscrew
05305-002-81-88

Mechanical Seal, 60 HZ
05330-002-34-22

Mechanical Seal, 50 HZ
05330-011-44-06

Case O-Ring, 60 HZ
05330-002-81-83

Seal Plate, 60 HZ
05700-002-81-87

Gasket, 50 HZ
05330-111-59-90

Other parts not shown.

Drain Plug
04730-002-81-89

Iron Adapter, 50 HZ
04730-002-42-84

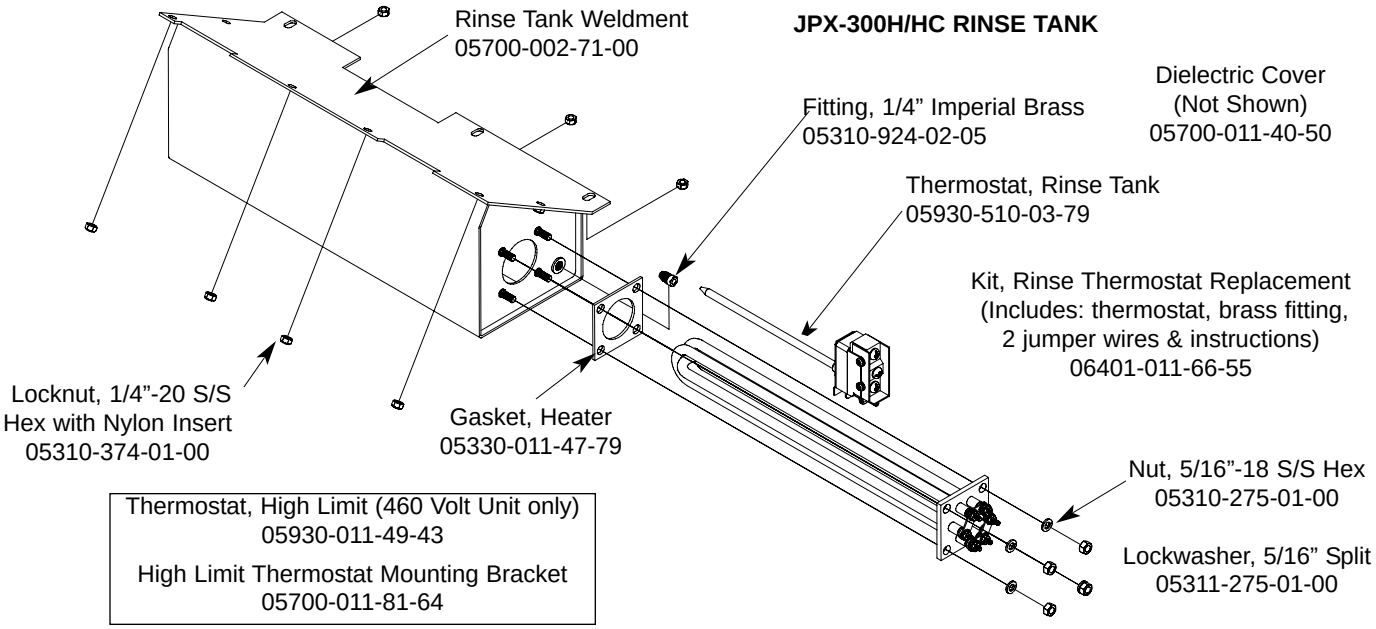
Pump Bracket, 50 HZ
05700-002-42-85

Impeller Assembly, 60 HZ
05700-002-81-86

Impeller, 50 HZ
04320-021-44-02

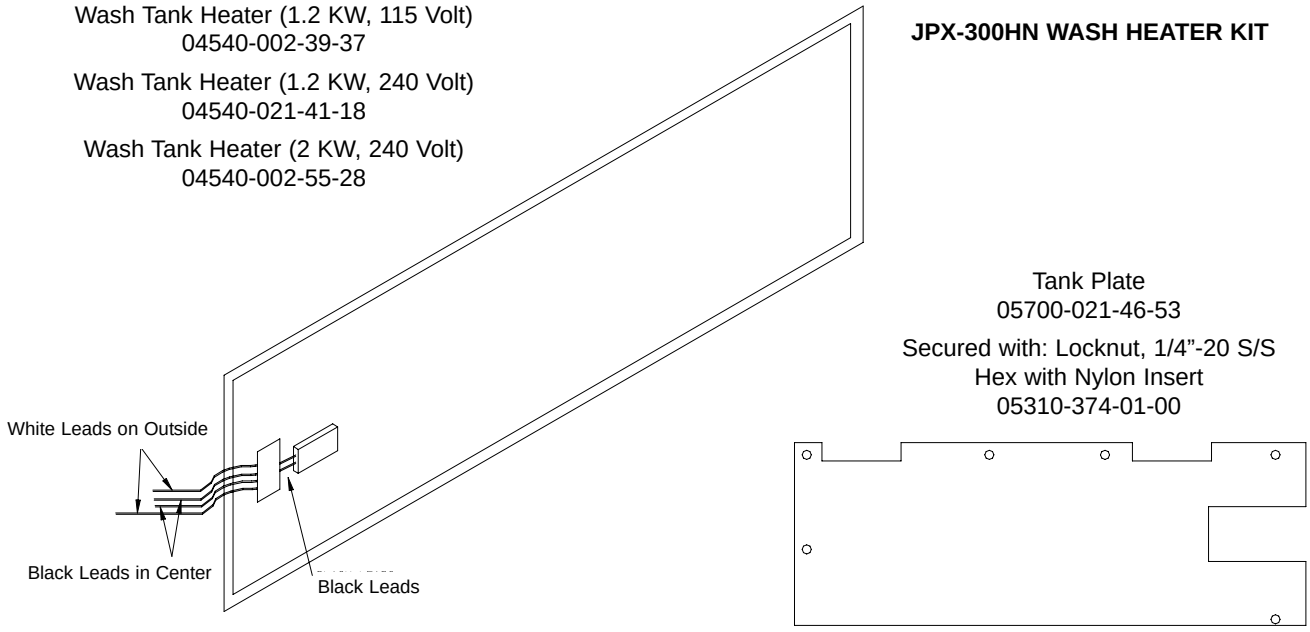
Pump Casing-Stainless Steel, 60 HZ
05700-002-85-00

Pump Casing-Iron, 50 HZ
05930-021-44-07



The JPX-300H/HC/HN models covered in this manual come supplied with various heaters, depending on the characteristics of the machine. To ensure that you order the correct heater for the model you are servicing, please refer to the following table:

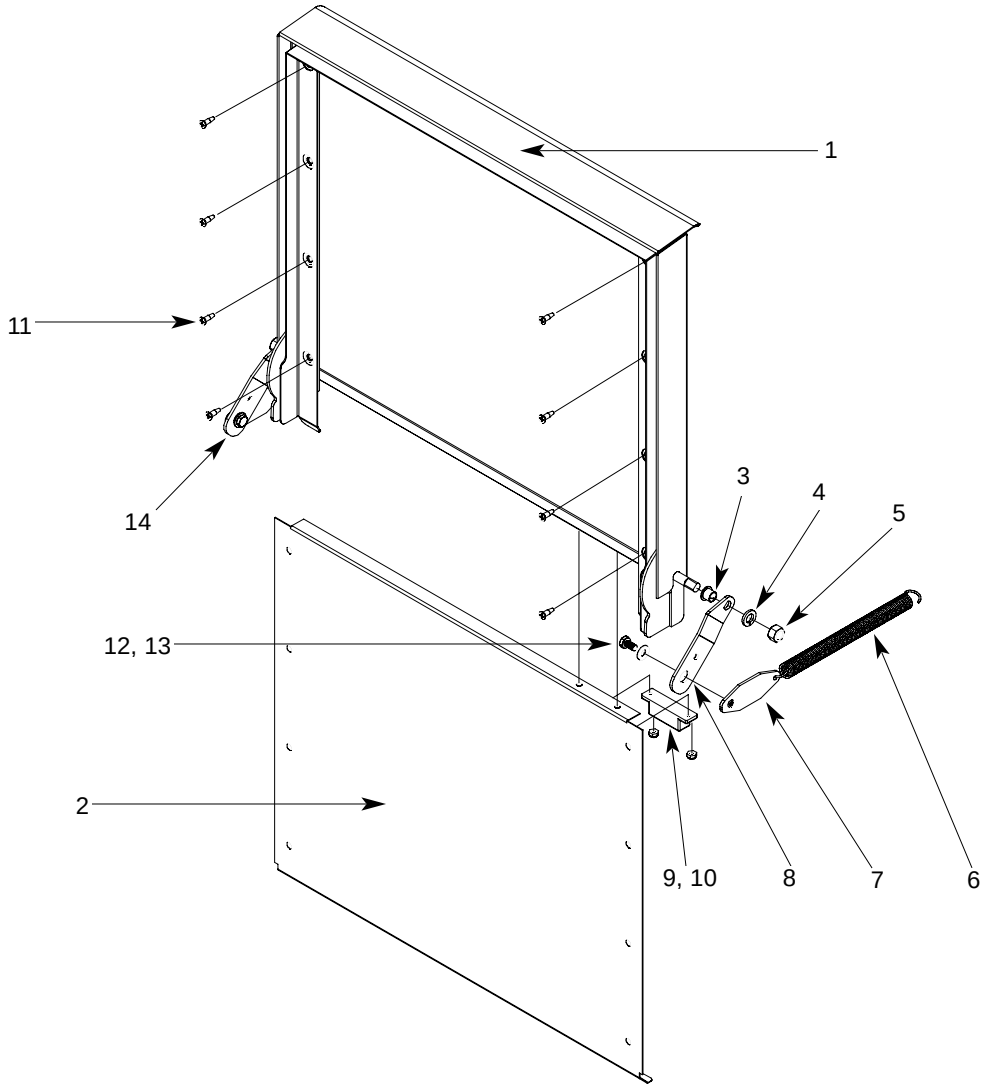
Model	Volts	Hz	Phase	40°F Rise Rinse Heater (8.2 KW)	70°F Rise Rinse Heater (10 KW)
JPX-300H	208	50	1	04540-111-43-21	04540-021-62-57
JPX-300H	230	50	1	04540-111-43-21	04540-021-62-57
JPX-300H	208	60	1	04540-111-43-21	04540-021-62-57
JPX-300H	230	60	1	04540-111-43-21	04540-021-62-57
JPX-300H	460	60	3	04540-111-51-46	04540-002-29-82



SECTION 6: PARTS SECTION

NEW STYLE DOOR ASSEMBLY

Order this entire assembly using 05700-002-92-64

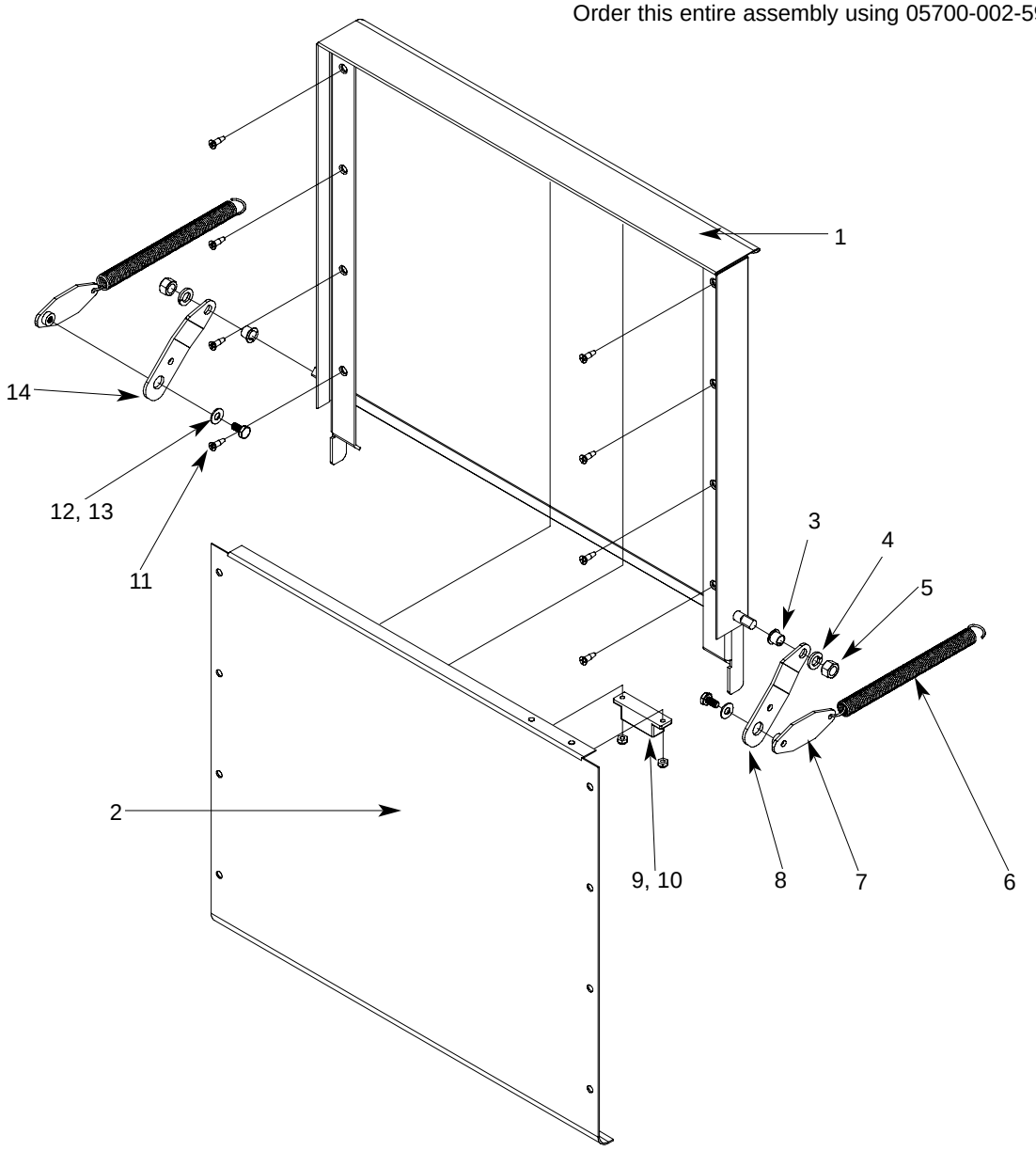


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Outer Door Weldment	05700-002-92-63
2	1	Inner Door Weldment	05700-002-92-62
3	2	Bearing, Nyliner Standard Flanged	03120-002-71-66
4	2	Lockwasher, 3/8” S/S	05311-276-01-00
5	2	Locknut, 3/8”-16 S/S Hex with Nylon Insert	05310-011-72-55
6	2	Spring, Door	05340-011-44-58
7	2	Door Lever Weldment	05700-002-72-97
8	1	Lever, Door, Left Hand	05700-002-71-64
9	2	Magnet, Reed Switch, 115 Volt	05930-002-88-42
10	2	Nut, 8-32 Hex Locking	05310-272-02-00
11	8	Screw, Cross Recesed Flat Countersunk Tapping	05305-002-71-12
12	2	Bolt, 1/4”-20 x 1/2" Long	05305-274-02-00
13	2	Washer, 1/4” I.D. S/S	05311-174-01-00
14	1	Lever, Door, Right Hand	05700-002-72-96
15	2	Door Bumper (Mounted on Tub, Not Shown)	05325-002-73-85

SECTION 6: PARTS SECTION

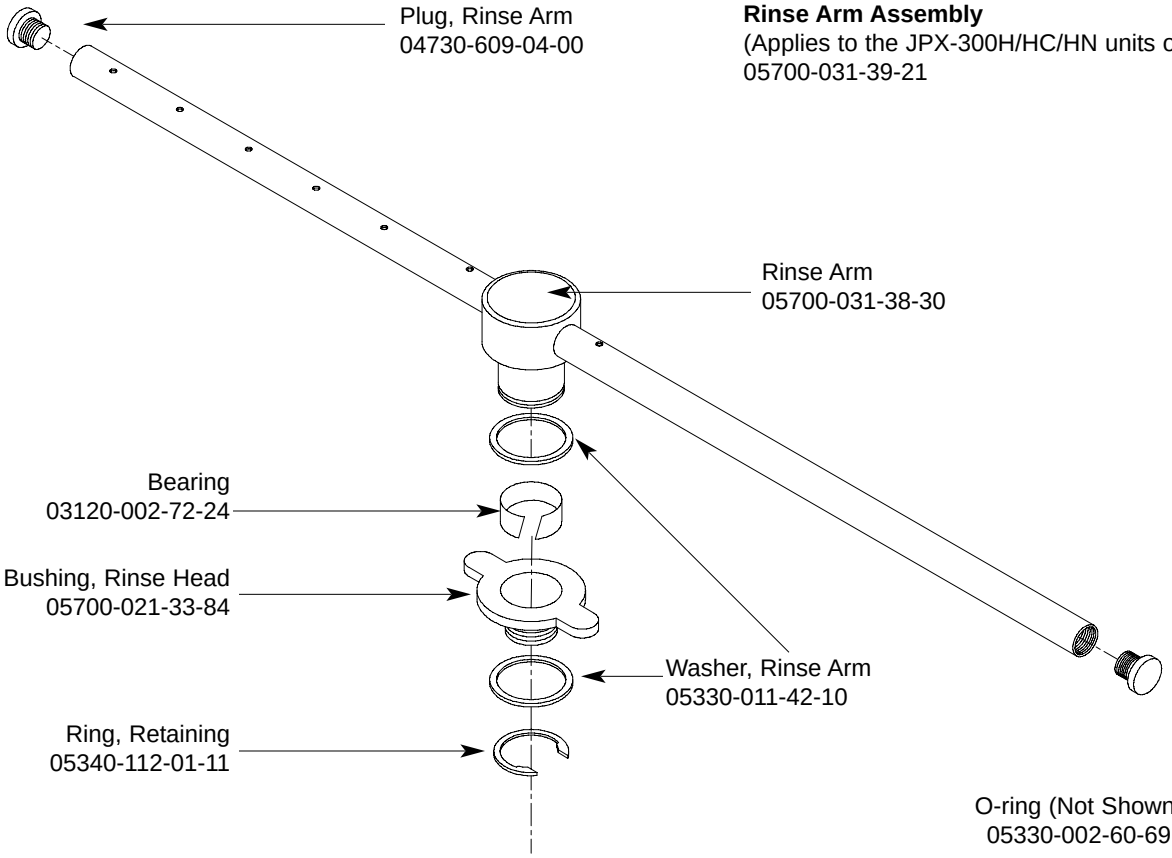
OLD STYLE DOOR ASSEMBLY

Order this entire assembly using 05700-002-59-46



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Door Weldment	05700-002-59-37
2	1	Inner Door Weldment	05700-002-71-80
3	2	Bearing, Nyliner Standard Flanged	03120-002-71-66
4	2	Lockwasher, 3/8” S/S	05311-276-01-00
5	2	Locknut, 3/8”-16 S/S Hex with Nylon Insert	05310-011-72-55
6	2	Spring, Door	05340-011-44-58
7	2	Door Lever Weldment	05700-002-72-97
8	1	Lever, Door, Left Hand	05700-002-71-64
9	2	Magnet, Reed Switch, 115 Volt	05930-002-68-53
10	6	Nut, 8-32 Hex Locking	05310-272-02-00
11	8	Screw, Cross Recesed Flat Countersunk Tapping	05305-002-71-12
12	2	Bolt, 1/4”-20 x 1/2" Long	05305-274-02-00
13	2	Washer, 1/4” I.D. S/S	05311-174-01-00
14	1	Lever, Door, Right Hand	05700-002-72-96

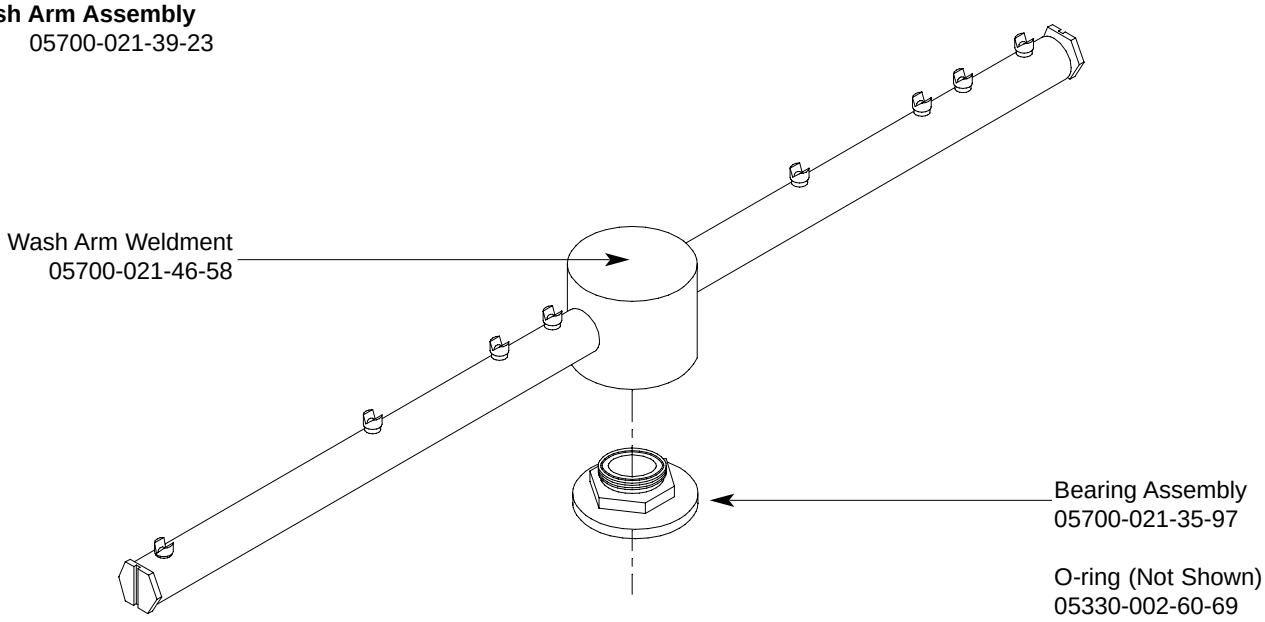
RINSE ARM & WASH ARM ASSEMBLIES



Rinse Arm Assembly
(Applies to the JPX-300H/HC/HN units only)
05700-031-39-21

O-ring (Not Shown)
05330-002-60-69

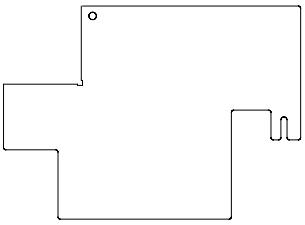
Wash Arm Assembly
05700-021-39-23



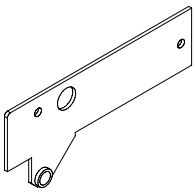
O-ring (Not Shown)
05330-002-60-69

SECTION 6: PARTS SECTION

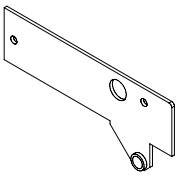
FRAME & PANEL COMPONENTS/MISCELLANEOUS PARTS



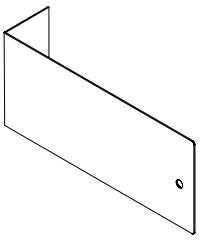
Back Panel
05700-031-44-33



Right Hinge Plate Weldment
05700-002-59-40

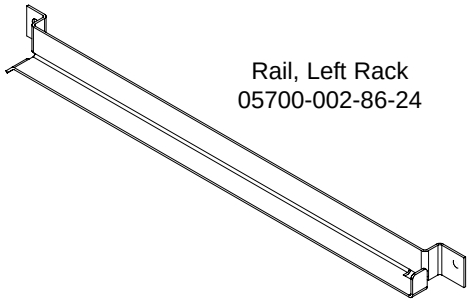


Left Hinge Plate Weldment
05700-002-59-39

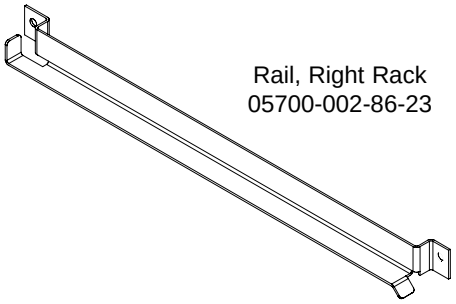


Strainer Spacer
05700-002-70-60

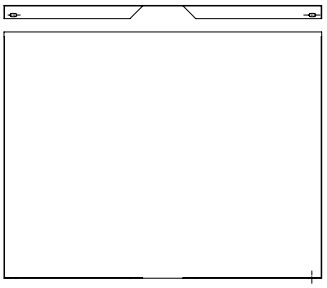
Attaches with:
Nut, Nylon Wing, 1/4”-20
05310-994-01-00



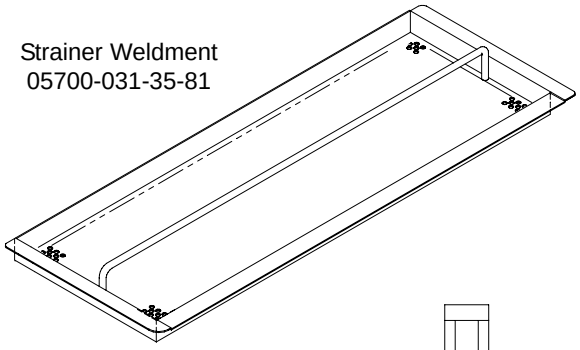
Rail, Left Rack
05700-002-86-24



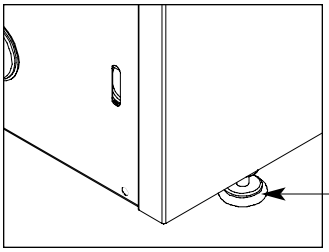
Rail, Right Rack
05700-002-86-23



Top Panel
05700-002-71-10

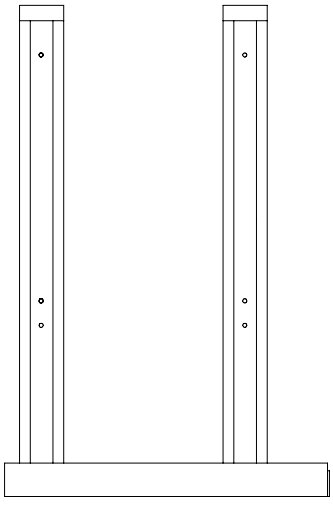


Strainer Weldment
05700-031-35-81

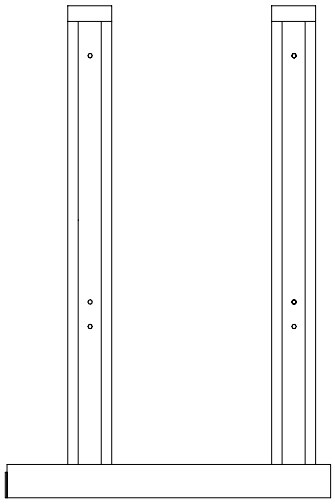


The swivel feet used on the frames may be ordered using
05340-002-71-71

The dress panels are secured with 10-32 x 1/2” Truss Head Screws, 05305-011-39-36

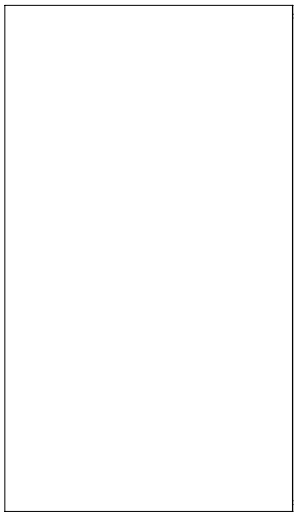


Right Frame Weldment
05700-002-59-36

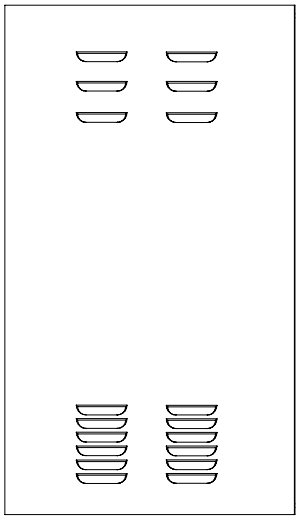


Left Frame Weldment
05700-002-59-35

Left Frame Weldment
(Used on JPX-300L only)
05700-002-89-33



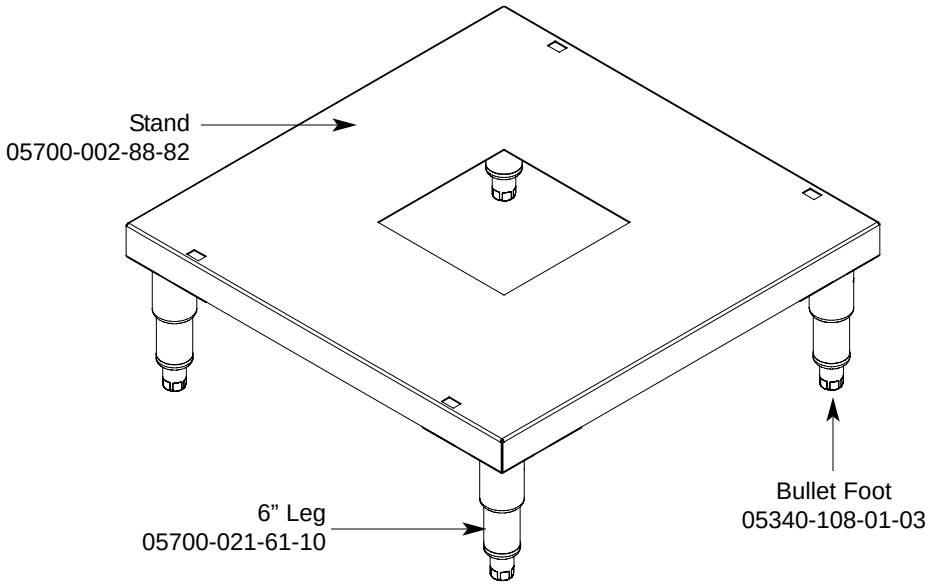
Left Dress Panel
05700-002-92-66



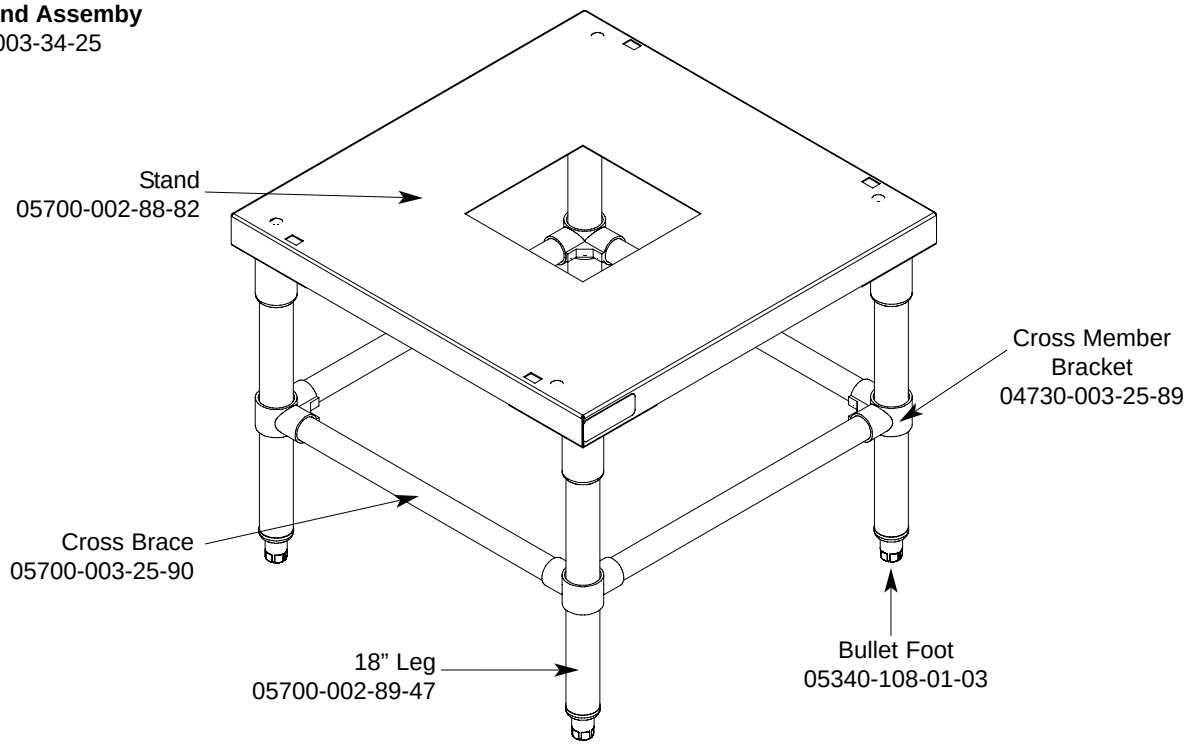
Right Dress Panel
05700-002-92-67

Installation Instructions: To install the stand, first remove the adjustable feet from the machine. Place machine on table and use the square mounting holes to line up the machine. Re-insert adjustable feet through bottom of table top and tighten to lock machine to table.

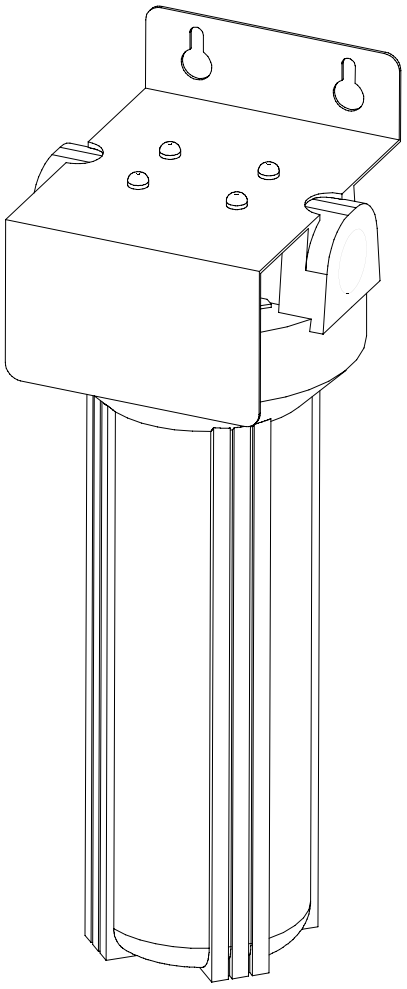
6” Stand Assemby
05700-003-34-24



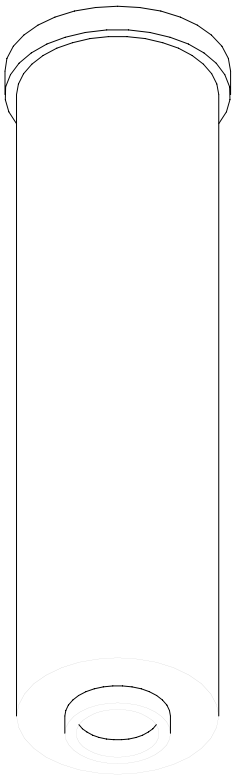
18” Stand Assemby
05700-003-34-25



Kleenware HTS-11 System
04730-003-28-03

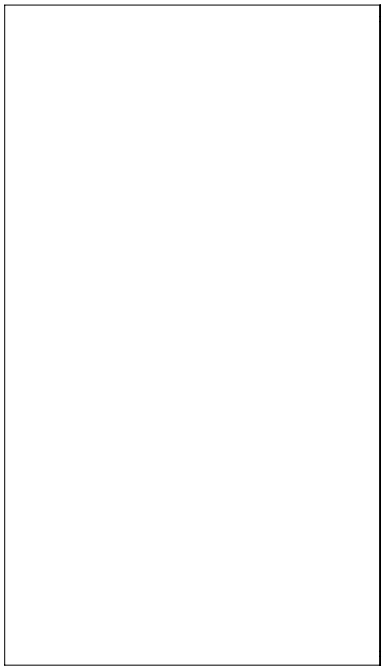


Replacment Cartridge
(Inspect at least every 6 months)
04730-003-28-04

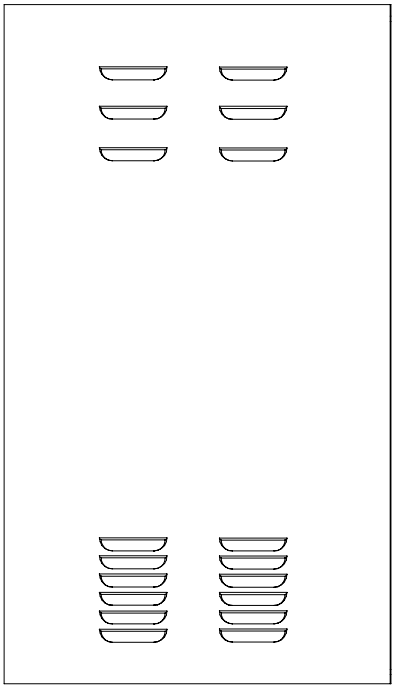


The HTS-11 must be installed vertically. The provided bracket is to be secured to the wall. Observe proper inlet/outlet water directions. Flow directions are molded into the top of the head. Line pressure should be released prior to changing cartridges. De-liming of equipment iprior to installation is recommended, but not required.

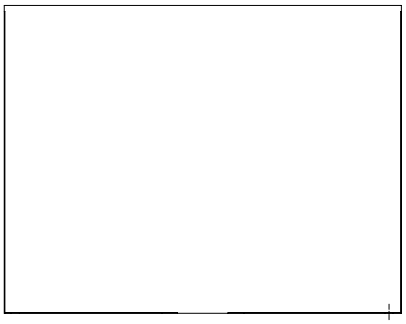
Replacment Test Strip
06401-003-28-06



Left Dress Panel
05700-002-92-75



Right Dress Panel
05700-002-92-76



Top Panel
05700-002-85-32

SECTION 6: PARTS SECTION

JPX-300 SERIES GO*BOX

A GO*Box is a kit of the most needed parts for a particular model or model family to successfully effect a repair in the first call 90% or more of the time.

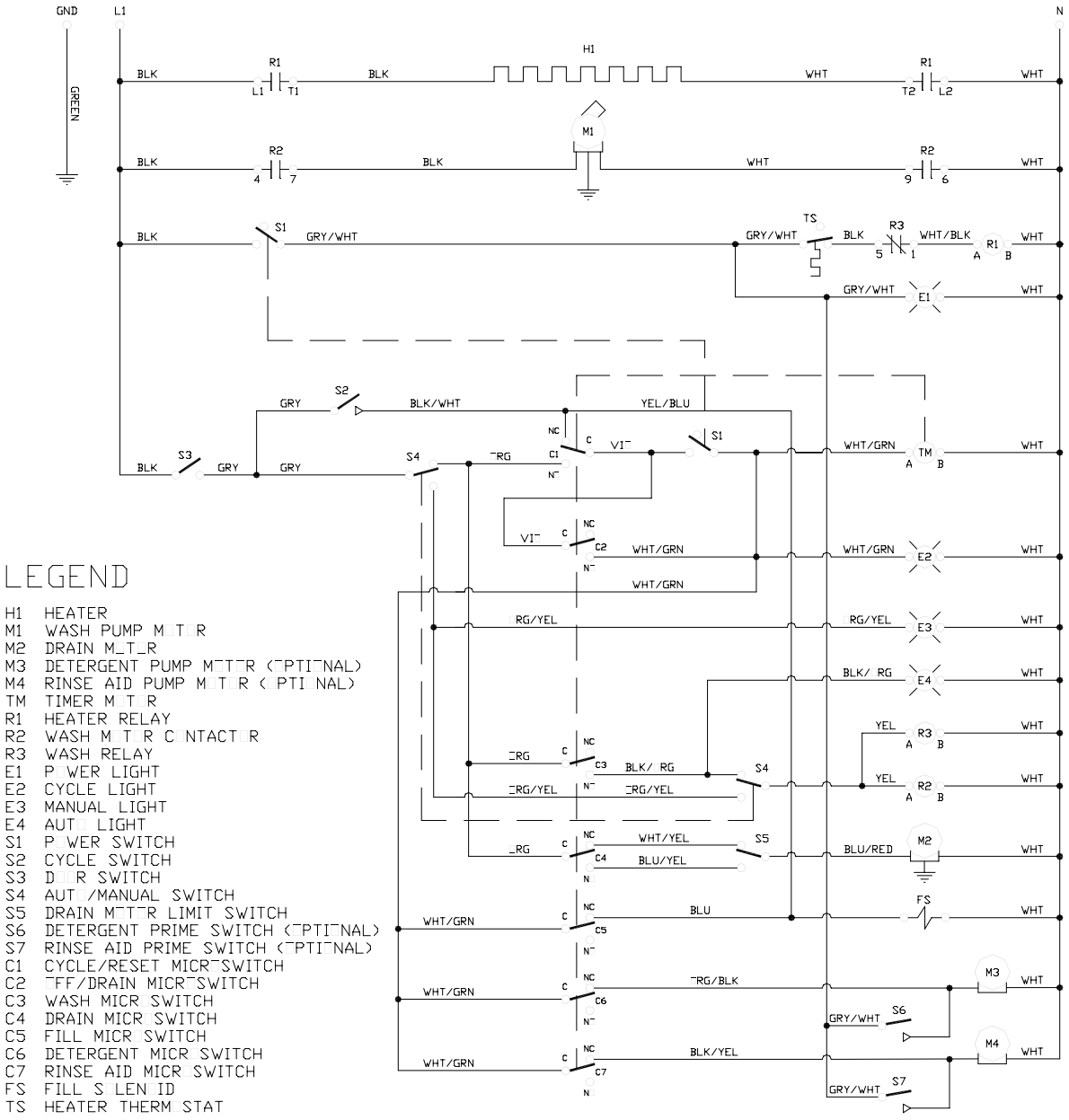
The following components may be ordered together using 06401-002-99-18.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Rinse Thermostat	05930-510-03-79
2	1	Contactor/Heater	05945-002-74-20
3	2	Pump Seal	05330-002-34-22
4	2	Pump Gasket O-Ring	05330-002-81-83
5	2	Door Switch (Reed)	05930-003-05-84
6	1	Switch, Delime	05930-002-43-44
7	1	Switch, Prime	05930-003-05-30
8	1	Fill Solenoid Valve 1/2"	04810-100-09-18
9	1	Vacuum Breaker	04820-003-06-13
10	4	Washer Rinse Arm	05330-011-42-10
11	2	Ring , Retaining	05340-112-01-11
12	1	Bearing Assembly, Wash Arm	05700-021-35-97
13	1	Timer, Universal	05945-003-33-09
14	3	Microswitch, Timer SPDT	05930-011-43-97
15	2	Squeeze Tube, 3/16 ID X 3/8 OD	05700-111-35-29
16	2	Squeeze Tube	05700-011-76-41
*Special Pricing available when purchased with above Go*Box. Call for details.			
17*	1	Pump & Motor Assy. S/S	06105-002-72-75

SECTION 7:
ELECTRICAL SCHEMATICS

SECTION 7: ELECTRICAL SCHEMATICS

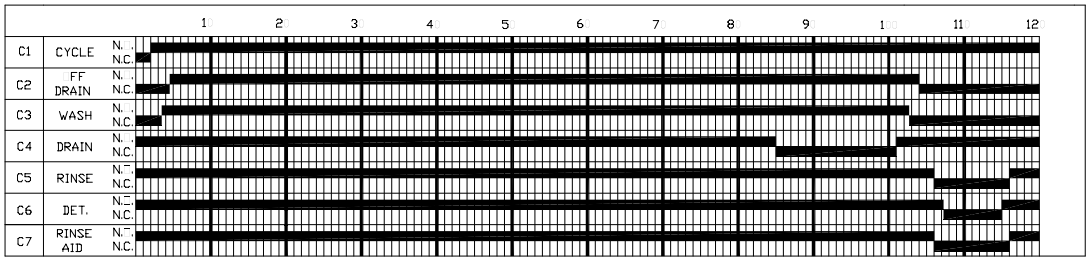
JPX-300HN 115 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

H1 HEATER
M1 WASH PUMP M_T_R
M2 DRAIN M_T_R
M3 DETERGENT PUMP M_T_R (_PTI_NAL)
M4 RINSE AID PUMP M_T_R (_PTI_NAL)
TM TIMER M_T_R
R1 HEATER RELAY
R2 WASH M_T_R C_NTACT_R
R3 WASH RELAY
E1 P_WER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUT_ LIGHT
S1 P_WER SWITCH
S2 CYCLE SWITCH
S3 D_R SWITCH
S4 AUT_/MANUAL SWITCH
S5 DRAIN M_T_R LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (_PTI_NAL)
S7 RINSE AID PRIME SWITCH (_PTI_NAL)
C1 CYCLE/RESET MICR_SWITCH
C2 _FF/DRAIN MICR_SWITCH
C3 WASH MICR_SWITCH
C4 DRAIN MICR_SWITCH
C5 FILL MICR_SWITCH
C6 DETERGENT MICR_SWITCH
C7 RINSE AID MICR_SWITCH
FS FILL S_LEN_ID
TS HEATER THERM_STAT

TIMING CHART



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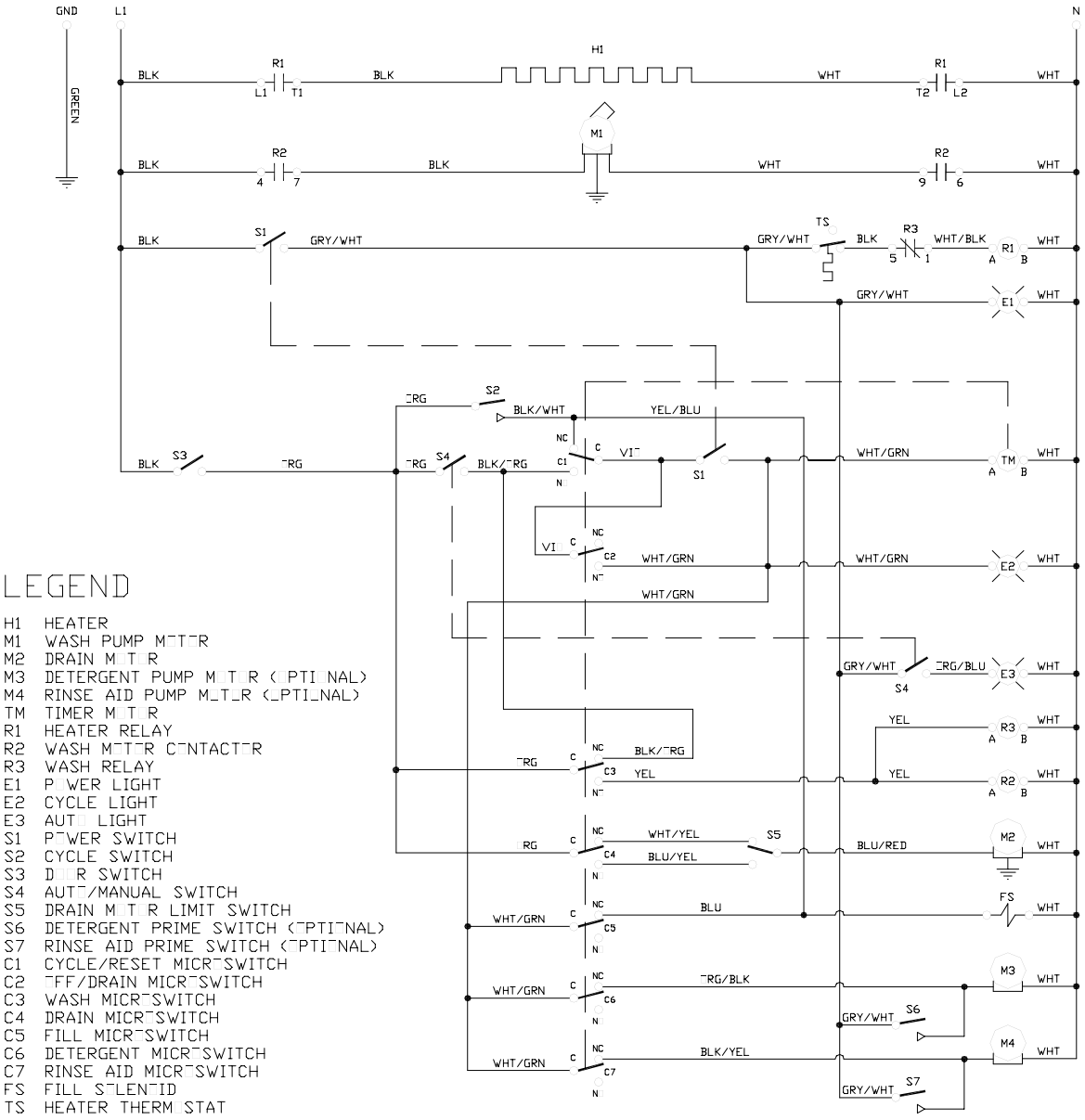
SECTION 7: ELECTRICAL SCHEMATICS

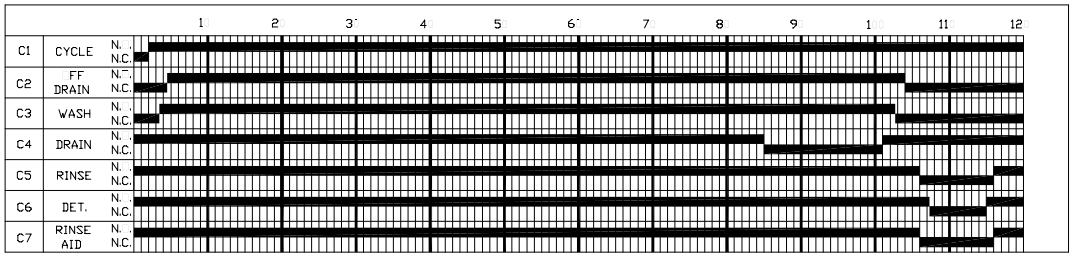
JPX-300HN (FOR USE WITH STAINLESS STEEL SWITCHES) 115 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

H1 HEATER
M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 DETERGENT PUMP MOTOR (OPTIONAL)
M4 RINSE AID PUMP MOTOR (OPTIONAL)
TM TIMER MOTOR
R1 HEATER RELAY
R2 WASH MOTOR CONTACTOR
R3 WASH RELAY
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (OPTIONAL)
S7 RINSE AID PRIME SWITCH (OPTIONAL)
C1 CYCLE/RESET MICROSWITCH
C2 OFF/DRAIN MICROSWITCH
C3 WASH MICROSWITCH
C4 DRAIN MICROSWITCH
C5 FILL MICROSWITCH
C6 DETERGENT MICROSWITCH
C7 RINSE AID MICROSWITCH
FS FILL SOLENOID
TS HEATER THERMOSTAT

TIMING CHART



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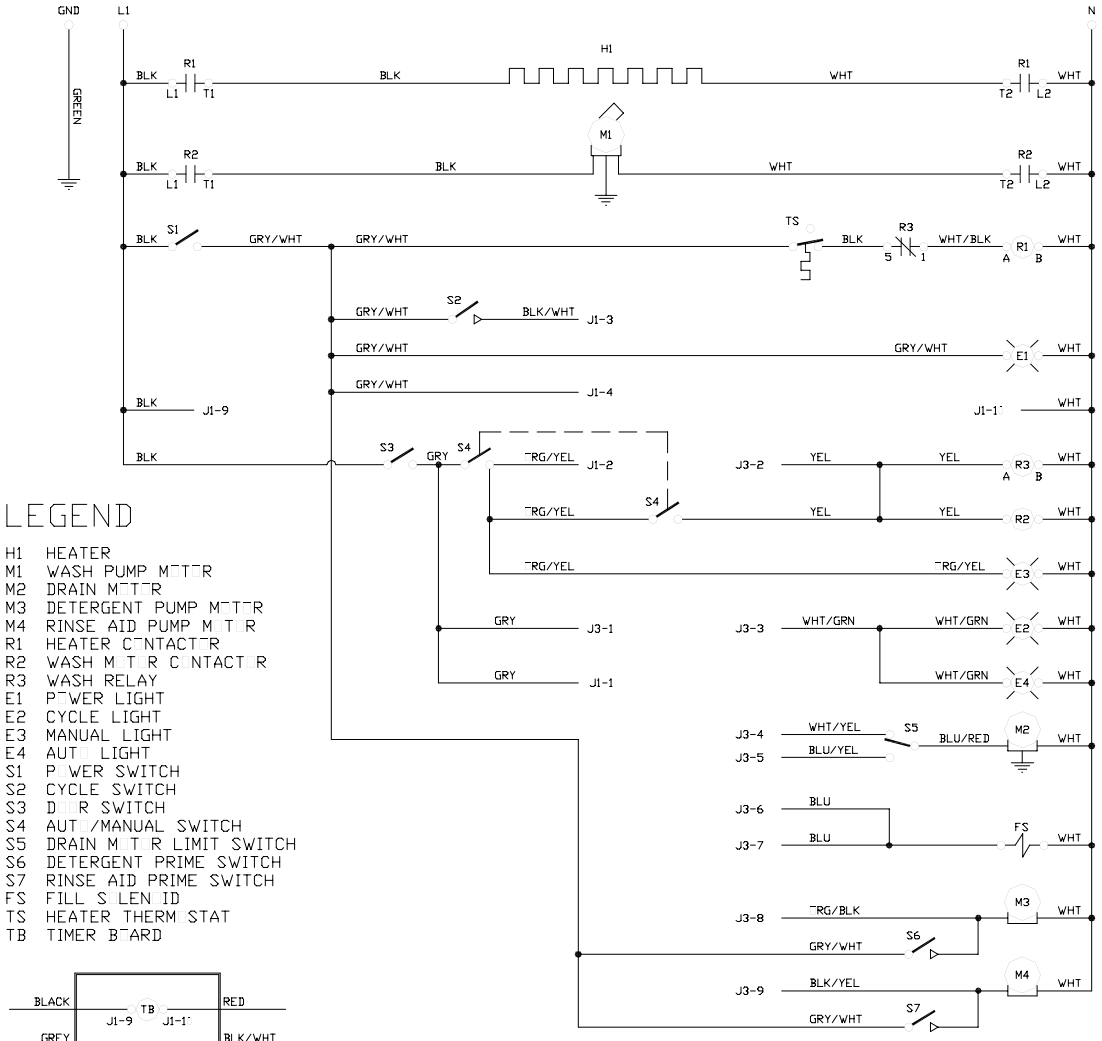
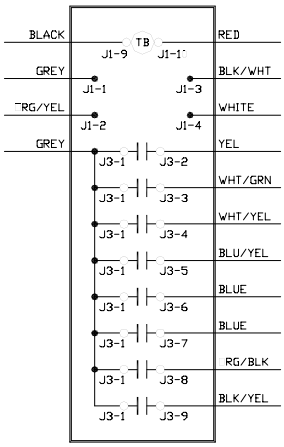
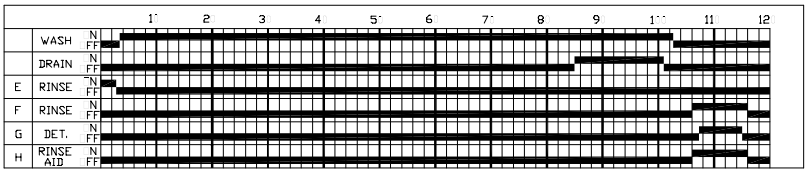


LEGEND

H1 HEATER
M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 DETERGENT PUMP MOTOR
M4 RINSE AID PUMP MOTOR
R1 HEATER CONTACTOR
R2 WASH MOTOR CONTACTOR
R3 WASH RELAY
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 DETERGENT PRIME SWITCH
S7 RINSE AID PRIME SWITCH
FS FILL SOLENOID
TS HEATER THERMOSTAT
TB TIMER BOARD



TIMING CHART



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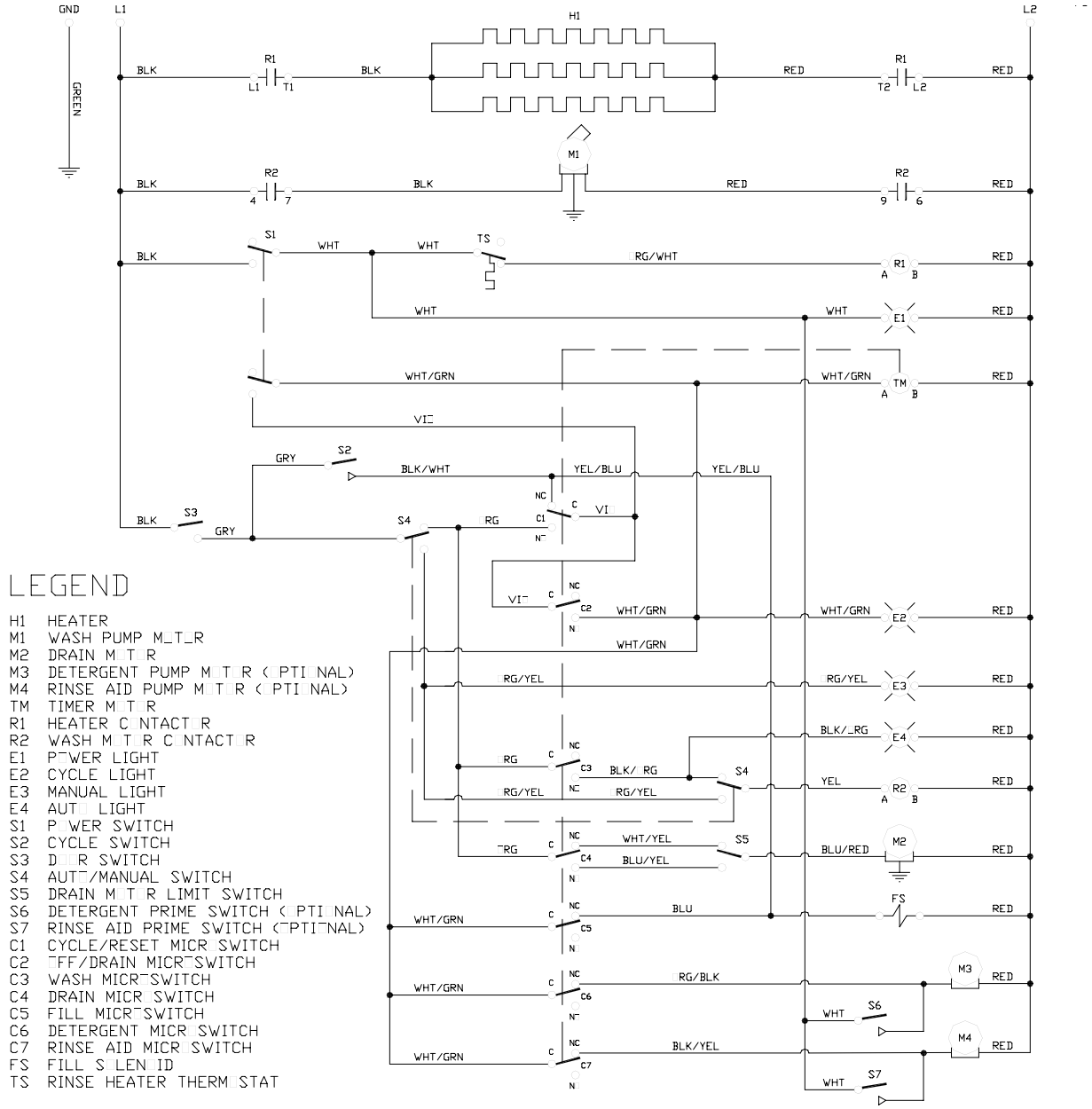
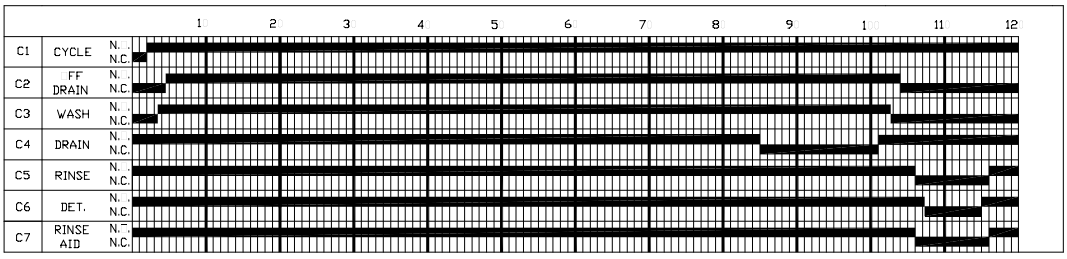


LEGEND

H1 HEATER
M1 WASH PUMP M_T_R
M2 DRAIN M T R
M3 DETERGENT PUMP M T R (PTI NAL)
M4 RINSE AID PUMP M T R (PTI NAL)
TM TIMER M T R
R1 HEATER C NTACT R
R2 WASH M T R C NTACT R
E1 P WER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUT LIGHT
S1 P WER SWITCH
S2 CYCLE SWITCH
S3 D R SWITCH
S4 AUT /MANUAL SWITCH
S5 DRAIN M T R LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (PTI NAL)
S7 RINSE AID PRIME SWITCH (PTI NAL)
C1 CYCLE/RESET MICR SWITCH
C2 FF/DRAIN MICR SWITCH
C3 WASH MICR SWITCH
C4 DRAIN MICR SWITCH
C5 FILL MICR SWITCH
C6 DETERGENT MICR SWITCH
C7 RINSE AID MICR SWITCH
FS FILL S LEN ID
TS RINSE HEATER THERM STAT

TIMING CHART



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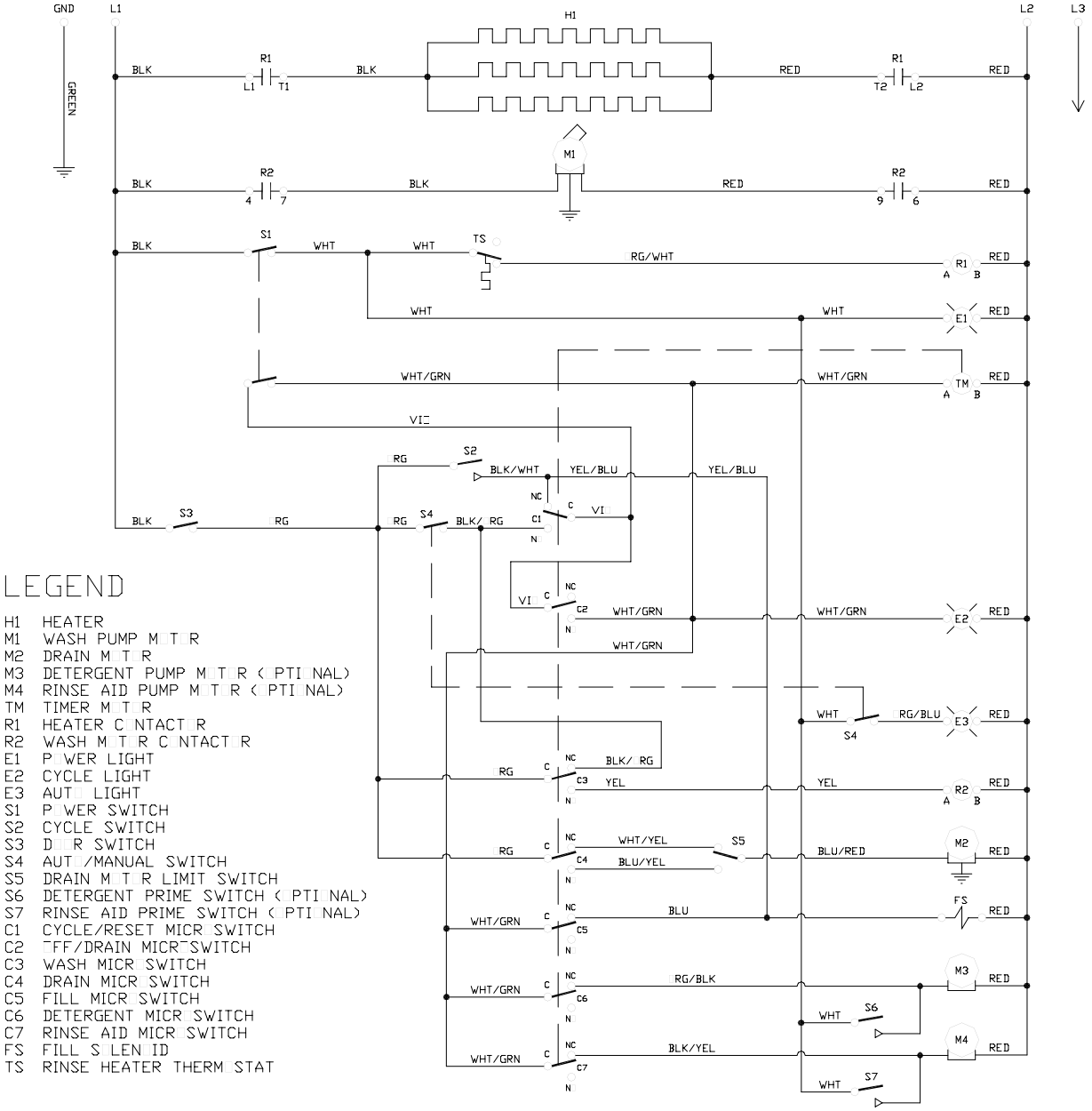
SECTION 7: ELECTRICAL SCHEMATICS

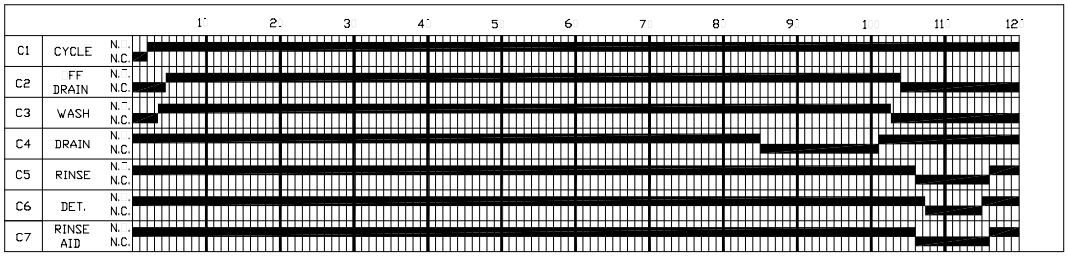
JPX-300H/HN (FOR USE WITH STAINLESS STEEL SWITCHES) 208-230 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

H1	HEATER
M1	WASH PUMP MOTOR
M2	DRAIN MOTOR
M3	DETERGENT PUMP MOTOR (OPTIONAL)
M4	RINSE AID PUMP MOTOR (OPTIONAL)
TM	TIMER MOTOR
R1	HEATER CONTACTOR
R2	WASH MOTOR CONTACTOR
E1	POWER LIGHT
E2	CYCLE LIGHT
E3	AUTO LIGHT
S1	POWER SWITCH
S2	CYCLE SWITCH
S3	DOOR SWITCH
S4	AUTO/MANUAL SWITCH
S5	DRAIN MOTOR LIMIT SWITCH
S6	DETERGENT PRIME SWITCH (OPTIONAL)
S7	RINSE AID PRIME SWITCH (OPTIONAL)
C1	CYCLE/RESET MICRO SWITCH
C2	OFF/DRAIN MICRO SWITCH
C3	WASH MICRO SWITCH
C4	DRAIN MICRO SWITCH
C5	FILL MICRO SWITCH
C6	DETERGENT MICRO SWITCH
C7	RINSE AID MICRO SWITCH
FS	FILL SOLENOID
TS	RINSE HEATER THERMOSTAT

TIMING CHART



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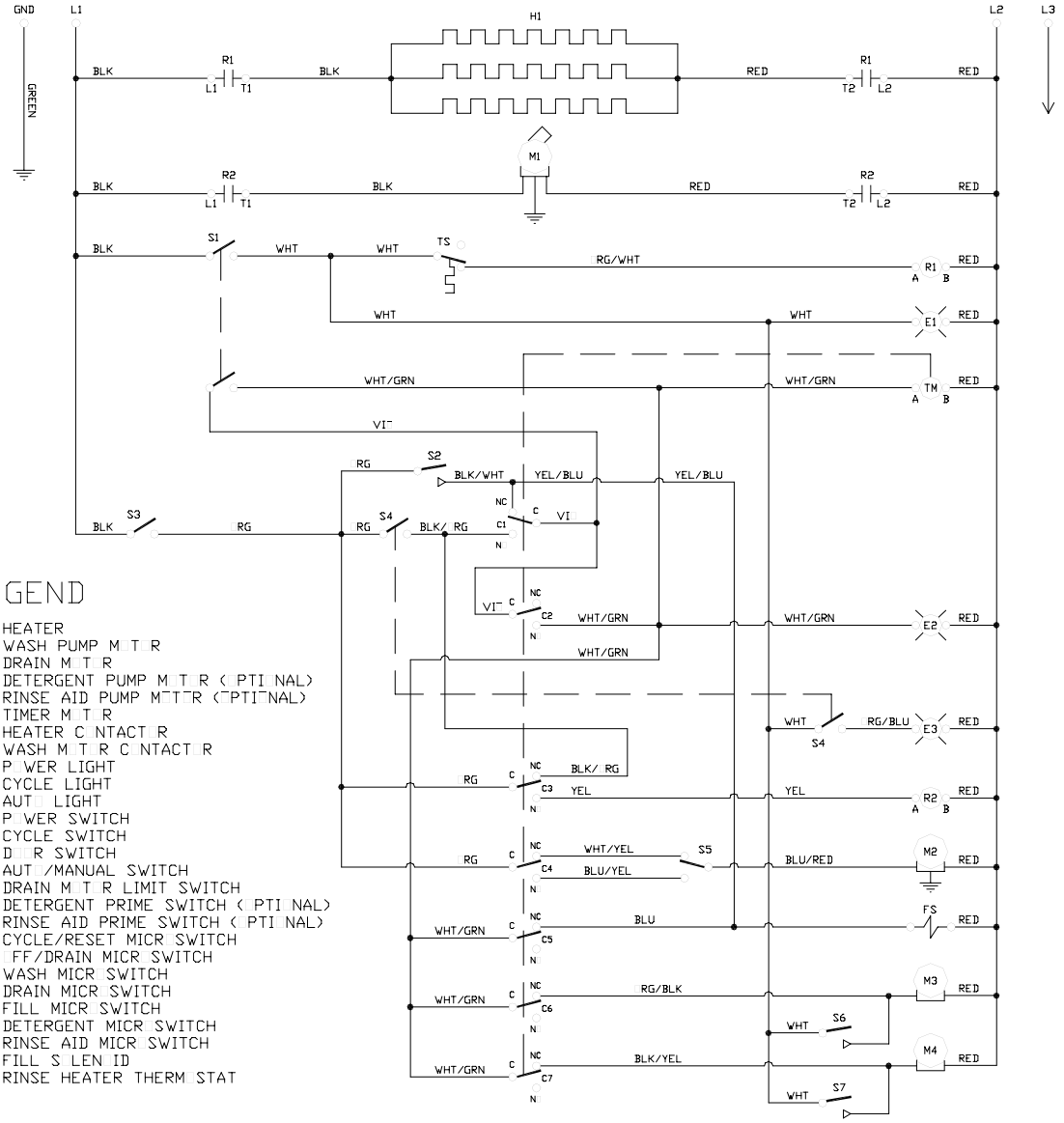
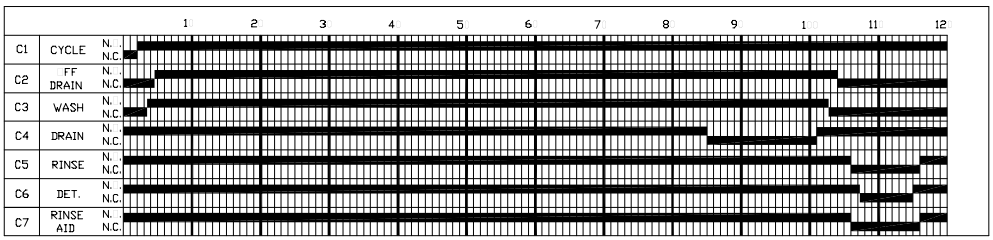


LEGEND

H1 HEATER
M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 DETERGENT PUMP MOTOR (OPTIONAL)
M4 RINSE AID PUMP MOTOR (OPTIONAL)
TM TIMER MOTOR
R1 HEATER CONTACTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (OPTIONAL)
S7 RINSE AID PRIME SWITCH (OPTIONAL)
C1 CYCLE/RESET MICRO SWITCH
C2 OFF/DRAIN MICRO SWITCH
C3 WASH MICRO SWITCH
C4 DRAIN MICRO SWITCH
C5 FILL MICRO SWITCH
C6 DETERGENT MICRO SWITCH
C7 RINSE AID MICRO SWITCH
FS FILL SOLENOID
TS RINSE HEATER THERMOSTAT

TIMING CHART



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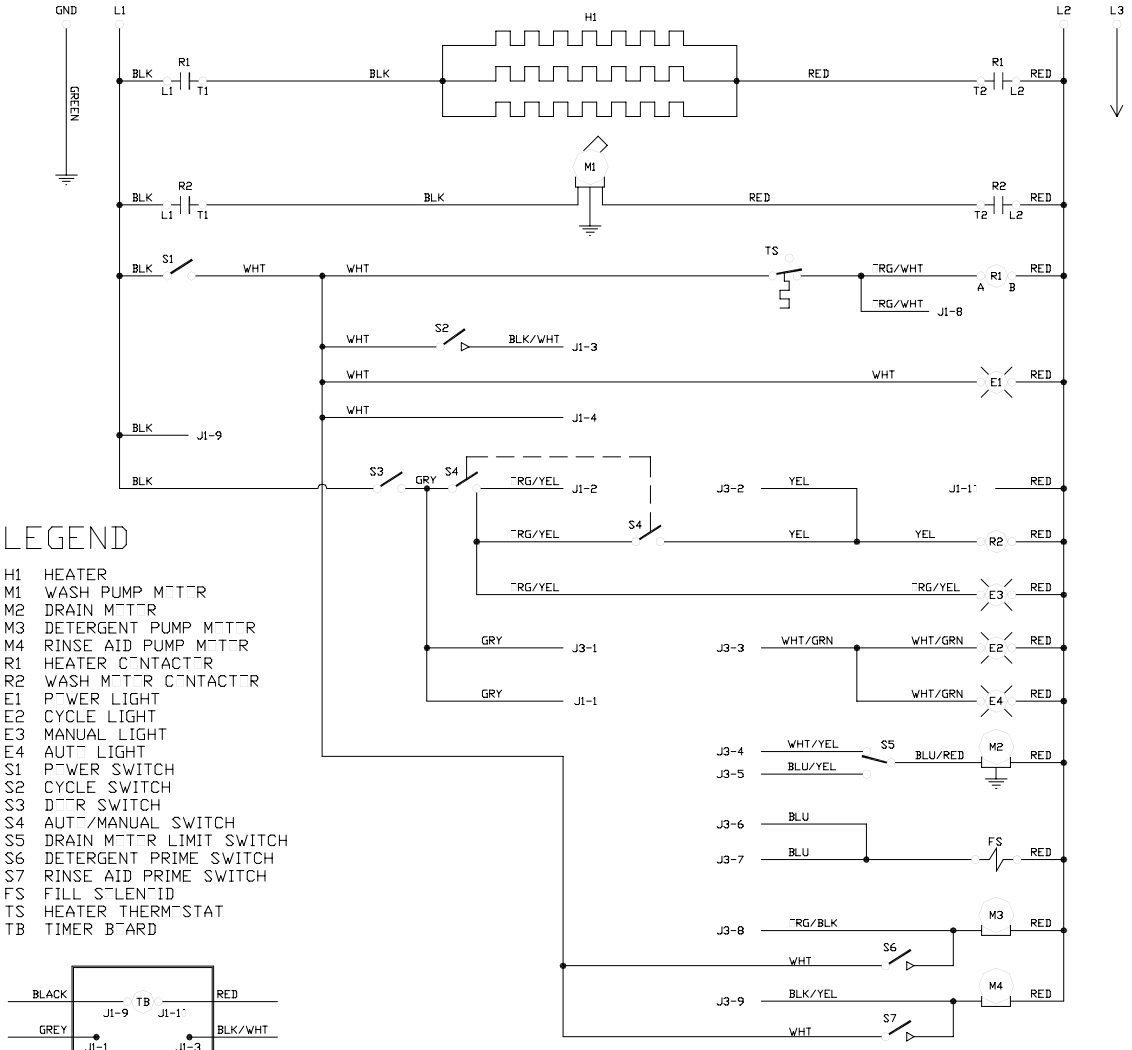
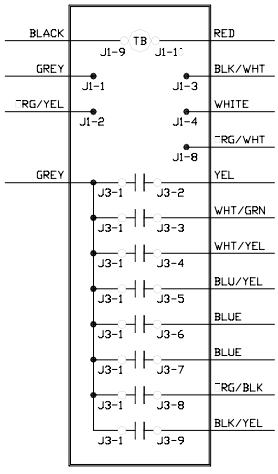
SECTION 7: ELECTRICAL SCHEMATICS

JPX-300H/HN (UNIVERAL TIMER & SS SWITCHES) 208-240 VOLT - 60 HERTZ - SINGLE PHASE

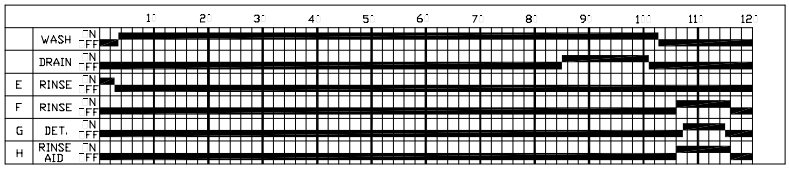


LEGEND

H1 HEATER
M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 DETERGENT PUMP MOTOR
M4 RINSE AID PUMP MOTOR
R1 HEATER CONTACTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 DETERGENT PRIME SWITCH
S7 RINSE AID PRIME SWITCH
FS FILL SOLENOID
TS HEATER THERMOSTAT
TB TIMER BOARD



TIMING CHART



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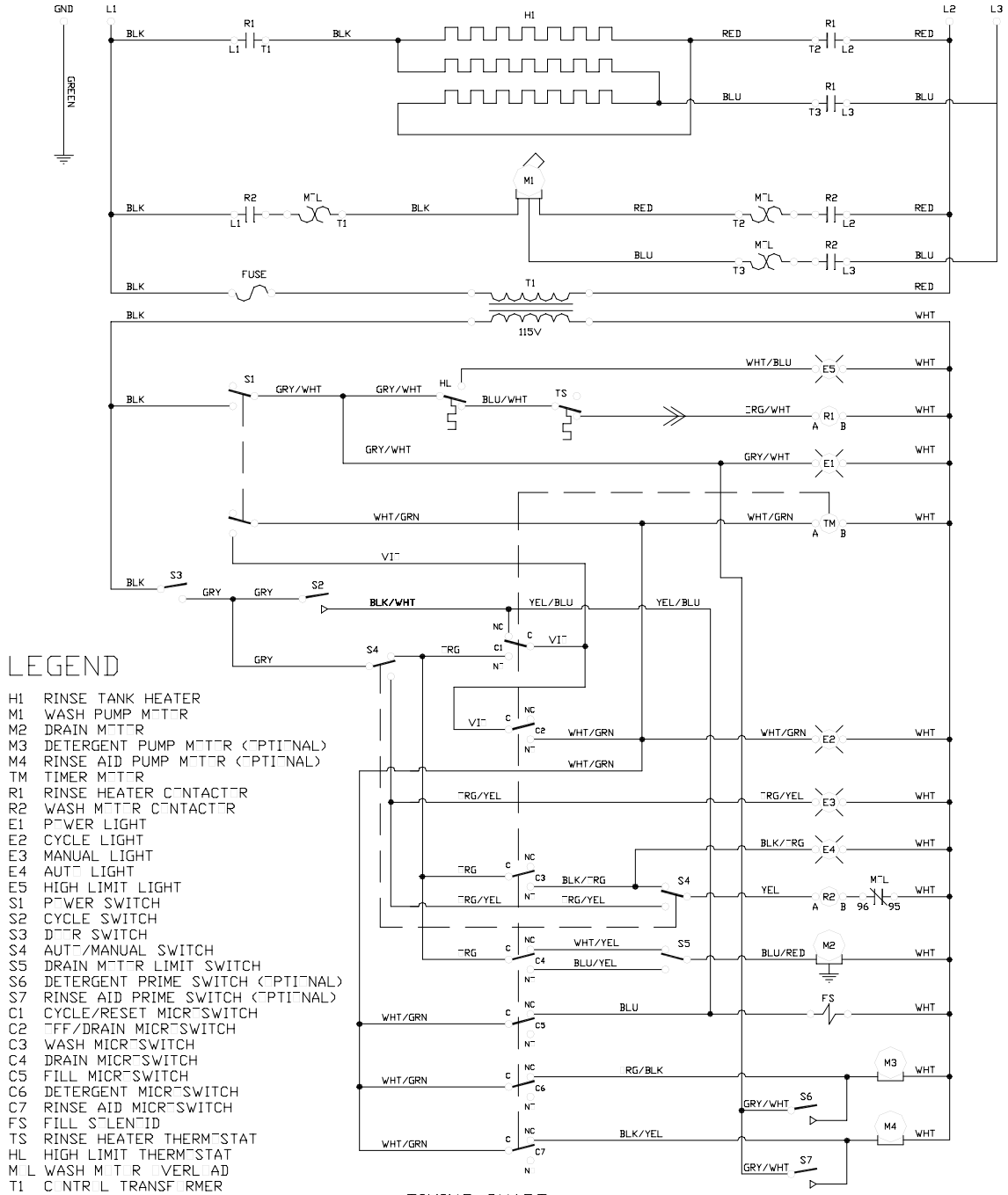
SECTION 7: ELECTRICAL SCHEMATICS

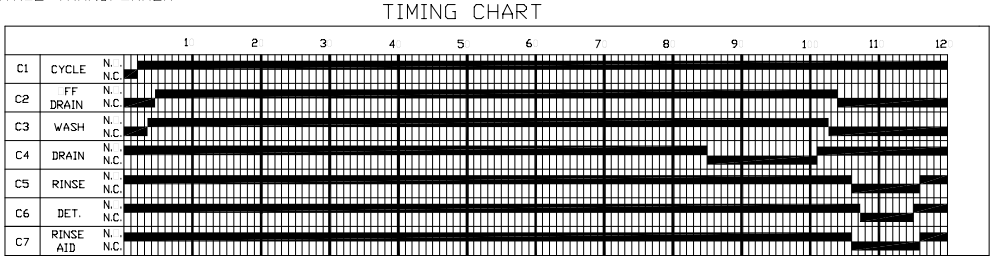
JPX-300H 460 VOLT - 60 HERTZ - THREE PHASE



LEGEND

H1 RINSE TANK HEATER
M1 WASH PUMP M-T-R
M2 DRAIN M-T-R
M3 DETERGENT PUMP M-T-R (-PTI-NAL)
M4 RINSE AID PUMP M-T-R (-PTI-NAL)
TM TIMER M-T-R
R1 RINSE HEATER C-NTACT-R
R2 WASH M-T-R C-NTACT-R
E1 P-WER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUT- LIGHT
E5 HIGH LIMIT LIGHT
S1 P-WER SWITCH
S2 CYCLE SWITCH
S3 D--R SWITCH
S4 AUT-/MANUAL SWITCH
S5 DRAIN M-T-R LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (-PTI-NAL)
S7 RINSE AID PRIME SWITCH (-PTI-NAL)
C1 CYCLE/RESET MICR-SWITCH
C2 -FF/DRAIN MICR-SWITCH
C3 WASH MICR-SWITCH
C4 DRAIN MICR-SWITCH
C5 FILL MICR-SWITCH
C6 DETERGENT MICR-SWITCH
C7 RINSE AID MICR-SWITCH
FS FILL S-LEN-ID
TS RINSE HEATER THERM-STAT
HL HIGH LIMIT THERM-STAT
M L WASH M T R VERL AD
T1 C NTR L TRANSF RMER

TIMING CHART



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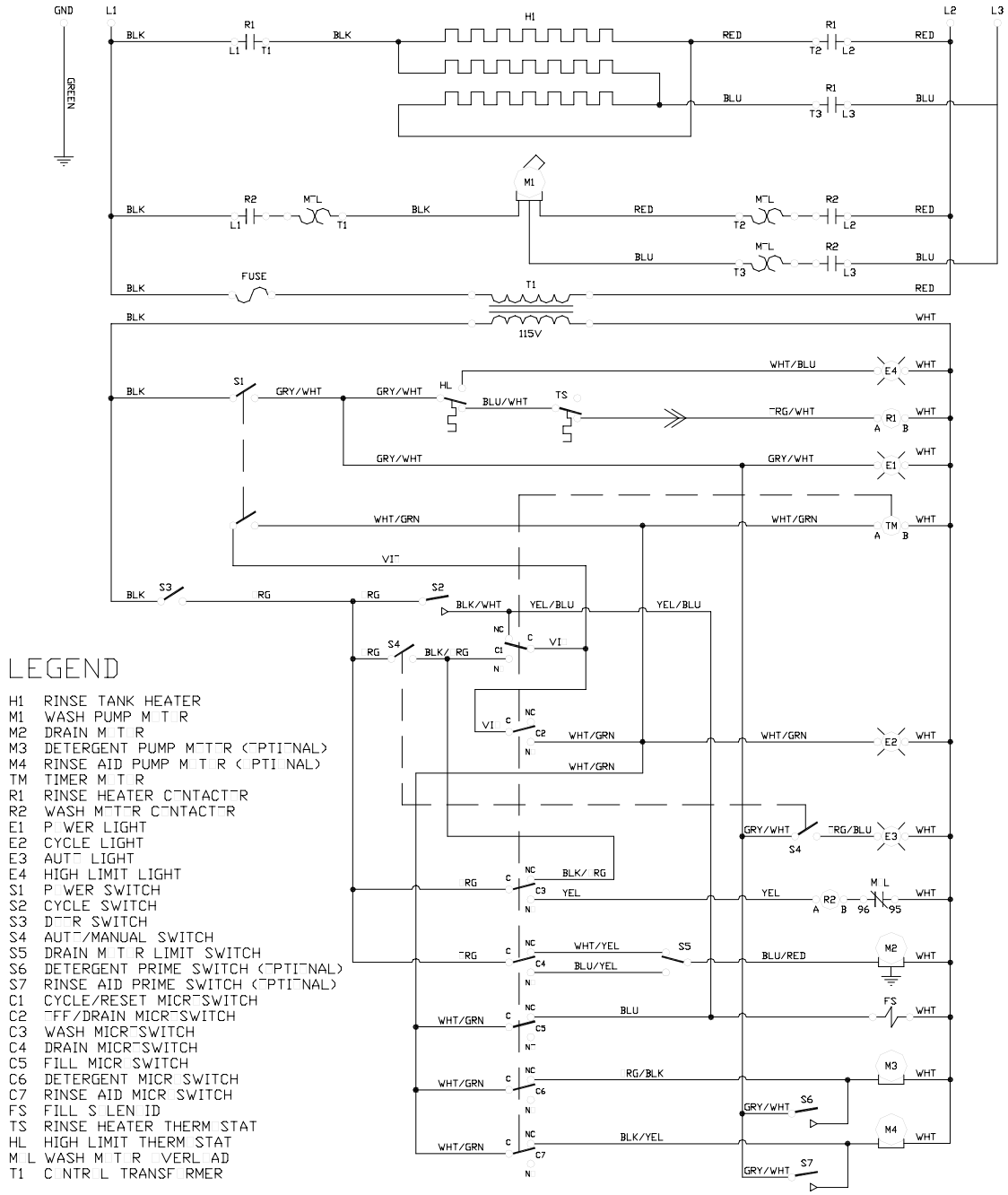
SECTION 7: ELECTRICAL SCHEMATICS

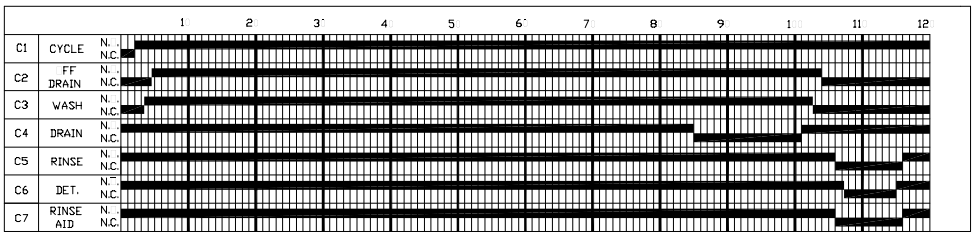
JPX-300H (FOR USE WITH STAINLESS STEEL SWITCHES) 460 VOLT - 60 HERTZ - THREE PHASE



LEGEND

H1	RINSE TANK HEATER
M1	WASH PUMP M T R
M2	DRAIN M T R
M3	DETERGENT PUMP M-T-R (-PTI-NAL)
M4	RINSE AID PUMP M T R (PTI NAL)
TM	TIMER M T R
R1	RINSE HEATER C-NTACT-R
R2	WASH M-T-R C-NTACT-R
E1	P WER LIGHT
E2	CYCLE LIGHT
E3	AUT- LIGHT
E4	HIGH LIMIT LIGHT
S1	P WER SWITCH
S2	CYCLE SWITCH
S3	D--R SWITCH
S4	AUT-/MANUAL SWITCH
S5	DRAIN M T R LIMIT SWITCH
S6	DETERGENT PRIME SWITCH (-PTI-NAL)
S7	RINSE AID PRIME SWITCH (-PTI-NAL)
C1	CYCLE/RESET MICR-SWITCH
C2	-FF/DRAIN MICR-SWITCH
C3	WASH MICR-SWITCH
C4	DRAIN MICR-SWITCH
C5	FILL MICR SWITCH
C6	DETERGENT MICR SWITCH
C7	RINSE AID MICR SWITCH
FS	FILL S LEN ID
TS	RINSE HEATER THERM STAT
HL	HIGH LIMIT THERM STAT
M L	WASH M T R VERL AD
T1	C NTR L TRANSF RMER

TIMING CHART



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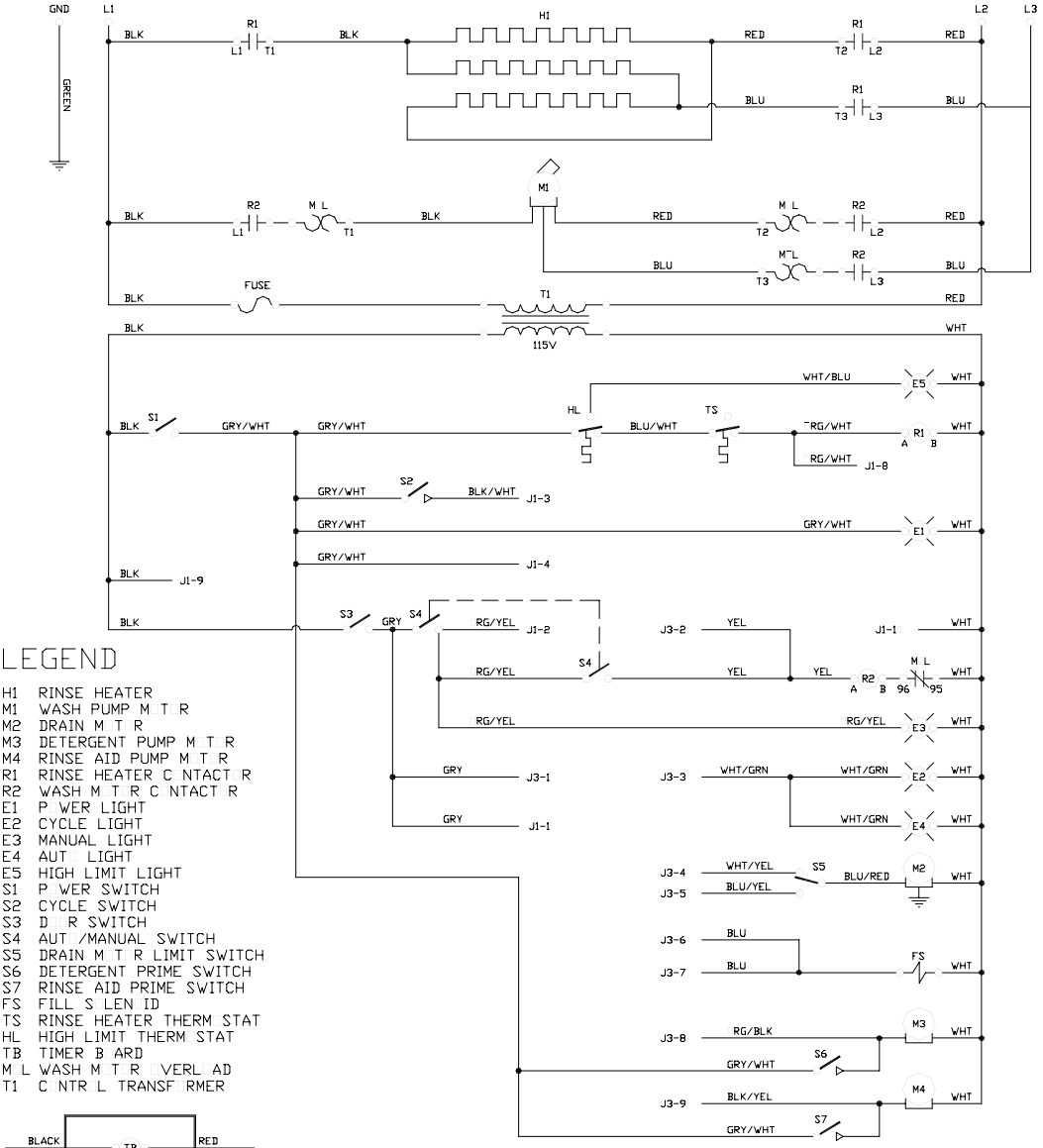
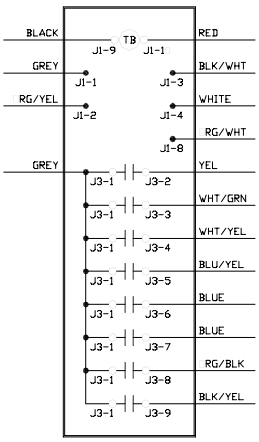
SECTION 7: ELECTRICAL SCHEMATICS

JPX-300H (UNIVERSAL TIMER & SS SWITCHES) 460 VOLT - 60 HERTZ - THREE PHASE



LEGEND

H1 RINSE HEATER
M1 WASH PUMP M T R
M2 DRAIN M T R
M3 DETERGENT PUMP M T R
M4 RINSE AID PUMP M T R
R1 RINSE HEATER C NTACT R
R2 WASH M T R C NTACT R
E1 P WER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUT LIGHT
E5 HIGH LIMIT LIGHT
S1 P WER SWITCH
S2 CYCLE SWITCH
S3 D R SWITCH
S4 AUT /MANUAL SWITCH
S5 DRAIN M T R LIMIT SWITCH
S6 DETERGENT PRIME SWITCH
S7 RINSE AID PRIME SWITCH
FS FILL S LEN ID
TS RINSE HEATER THERM STAT
HL HIGH LIMIT THERM STAT
TB TIMER B ARD
M L WASH M T R VERL AD
T1 C NTR L TRANSF RMER



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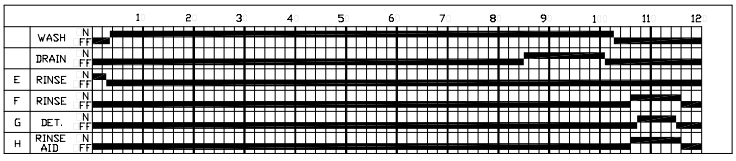
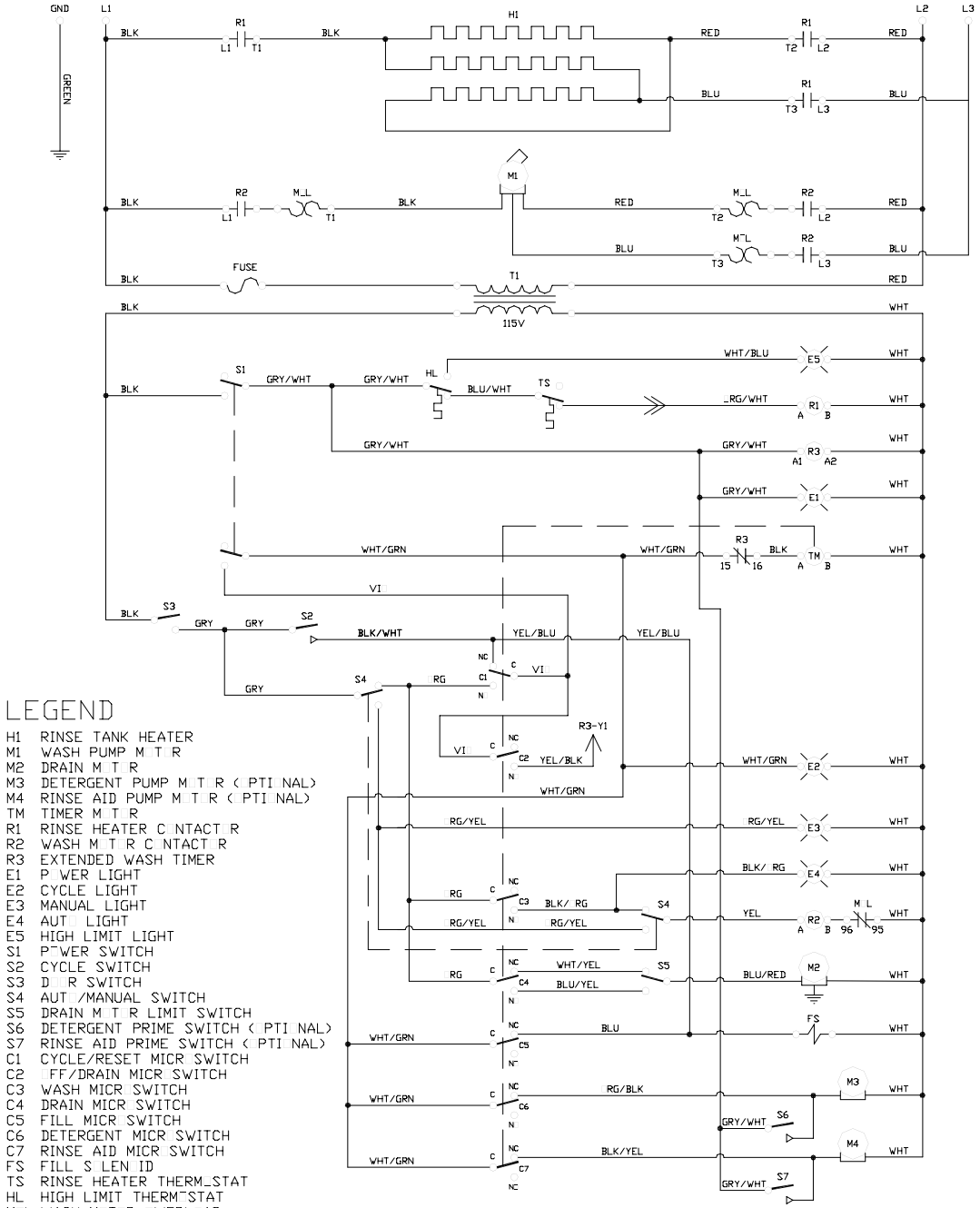
TIMING CHART



SECTION 7: ELECTRICAL SCHEMATICS

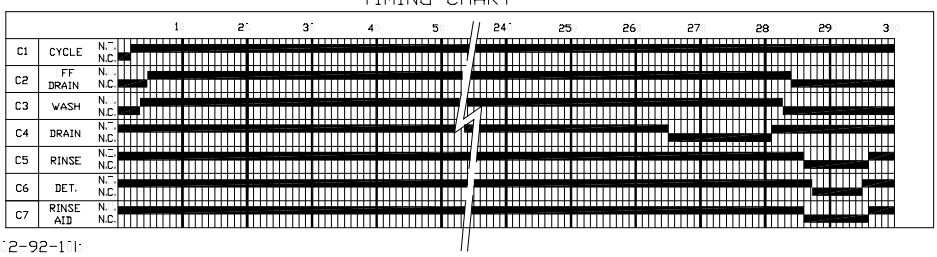
JPX-300H/JPX-300HN (EXTENDED WASH) 460 VOLT - 60 HERTZ - THREE PHASE



LEGEND

H1 RINSE TANK HEATER
M1 WASH PUMP M T R
M2 DRAIN M T R
M3 DETERGENT PUMP M T R (PTI NAL)
M4 RINSE AID PUMP M T R (PTI NAL)
TM TIMER M T R
R1 RINSE HEATER C NTACT R
R2 WASH M T R C NTACT R
R3 EXTENDED WASH TIMER
E1 P WER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUT LIGHT
E5 HIGH LIMIT LIGHT
S1 P WER SWITCH
S2 CYCLE SWITCH
S3 D R SWITCH
S4 AUT /MANUAL SWITCH
S5 DRAIN M T R LIMIT SWITCH
S6 DETERGENT PRIME SWITCH (PTI NAL)
S7 RINSE AID PRIME SWITCH (PTI NAL)
C1 CYCLE/RESET MICR SWITCH
C2 FF/DRAIN MICR SWITCH
C3 WASH MICR SWITCH
C4 DRAIN MICR SWITCH
C5 FILL MICR SWITCH
C6 DETERGENT MICR SWITCH
C7 RINSE AID MICR SWITCH
FS FILL S LEN ID
TS RINSE HEATER THERM_STAT
HL HIGH LIMIT THERM STAT
M L WASH M T R VERL AD
T1 C NTR L TRANSF RMER

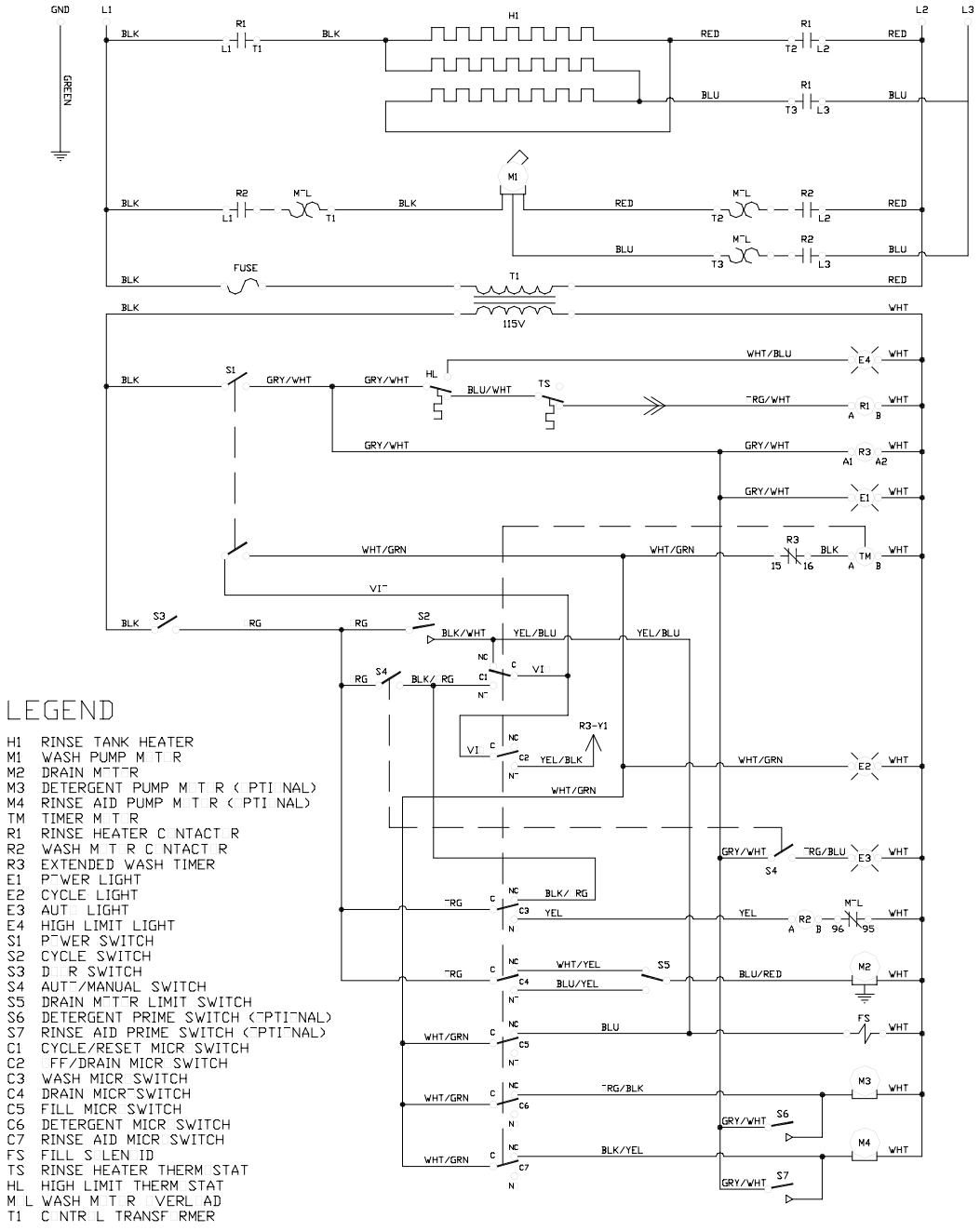
TIMING CHART



99[illegible]5-[illegible]2-92-1[illegible]

SECTION 7: ELECTRICAL SCHEMATICS

JPX-300H (EXTENDED WASH) (FOR USE WITH STAINLESS STEEL SWITCHES) 460 VOLT - 60 HERTZ - THREE PHASE



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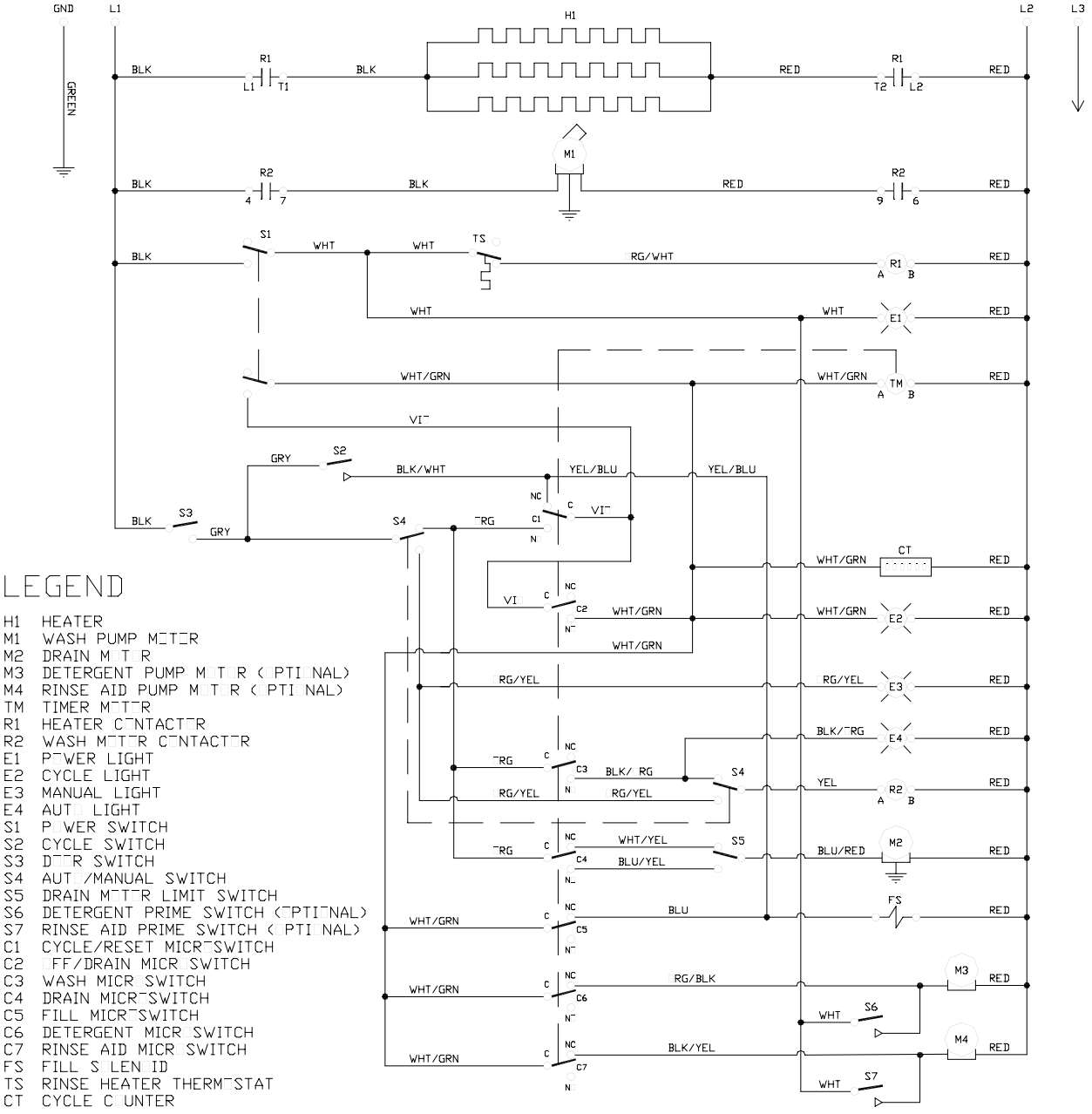
SECTION 7: ELECTRICAL SCHEMATICS

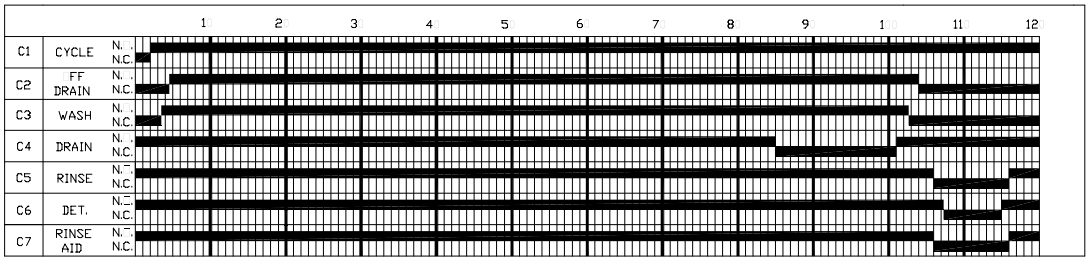
JPX-300HC 208-230 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

H1	HEATER
M1	WASH PUMP MOTOR
M2	DRAIN MOTOR
M3	DETERGENT PUMP MOTOR (OPTIONAL)
M4	RINSE AID PUMP MOTOR (OPTIONAL)
TM	TIMER MOTOR
R1	HEATER CONTACTOR
R2	WASH MOTOR CONTACTOR
E1	POWER LIGHT
E2	CYCLE LIGHT
E3	MANUAL LIGHT
E4	AUTO LIGHT
S1	POWER SWITCH
S2	CYCLE SWITCH
S3	DOOR SWITCH
S4	AUTO/MANUAL SWITCH
S5	DRAIN MOTOR LIMIT SWITCH
S6	DETERGENT PRIME SWITCH (OPTIONAL)
S7	RINSE AID PRIME SWITCH (OPTIONAL)
C1	CYCLE/RESET MICROSWITCH
C2	OFF/DRAIN MICRO SWITCH
C3	WASH MICRO SWITCH
C4	DRAIN MICROSWITCH
C5	FILL MICROSWITCH
C6	DETERGENT MICRO SWITCH
C7	RINSE AID MICRO SWITCH
FS	FILL SOLENOID
TS	RINSE HEATER THERMOSTAT
CT	CYCLE COUNTER

TIMING CHART



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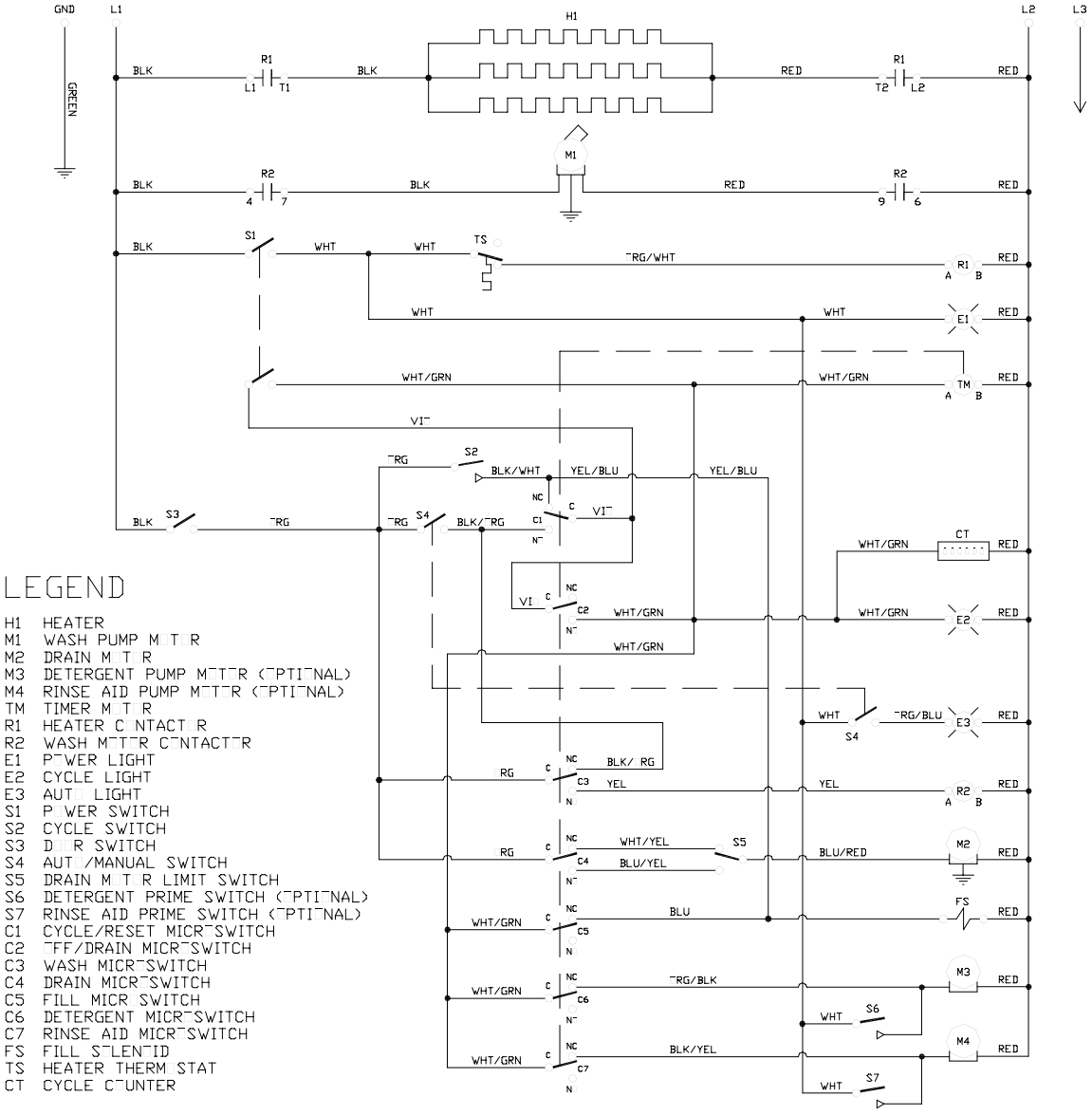
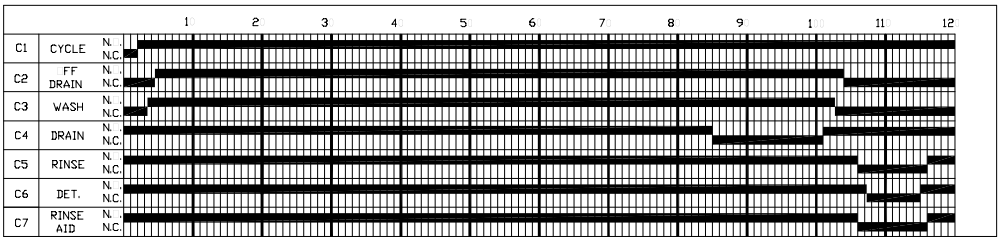
SECTION 7: ELECTRICAL SCHEMATICS

JPX-300HC (FOR USE WITH STAINLESS STEEL SWITCHES) 208-230 VOLT - 60 HERTZ - SINGLE PHASE



TIMING CHART



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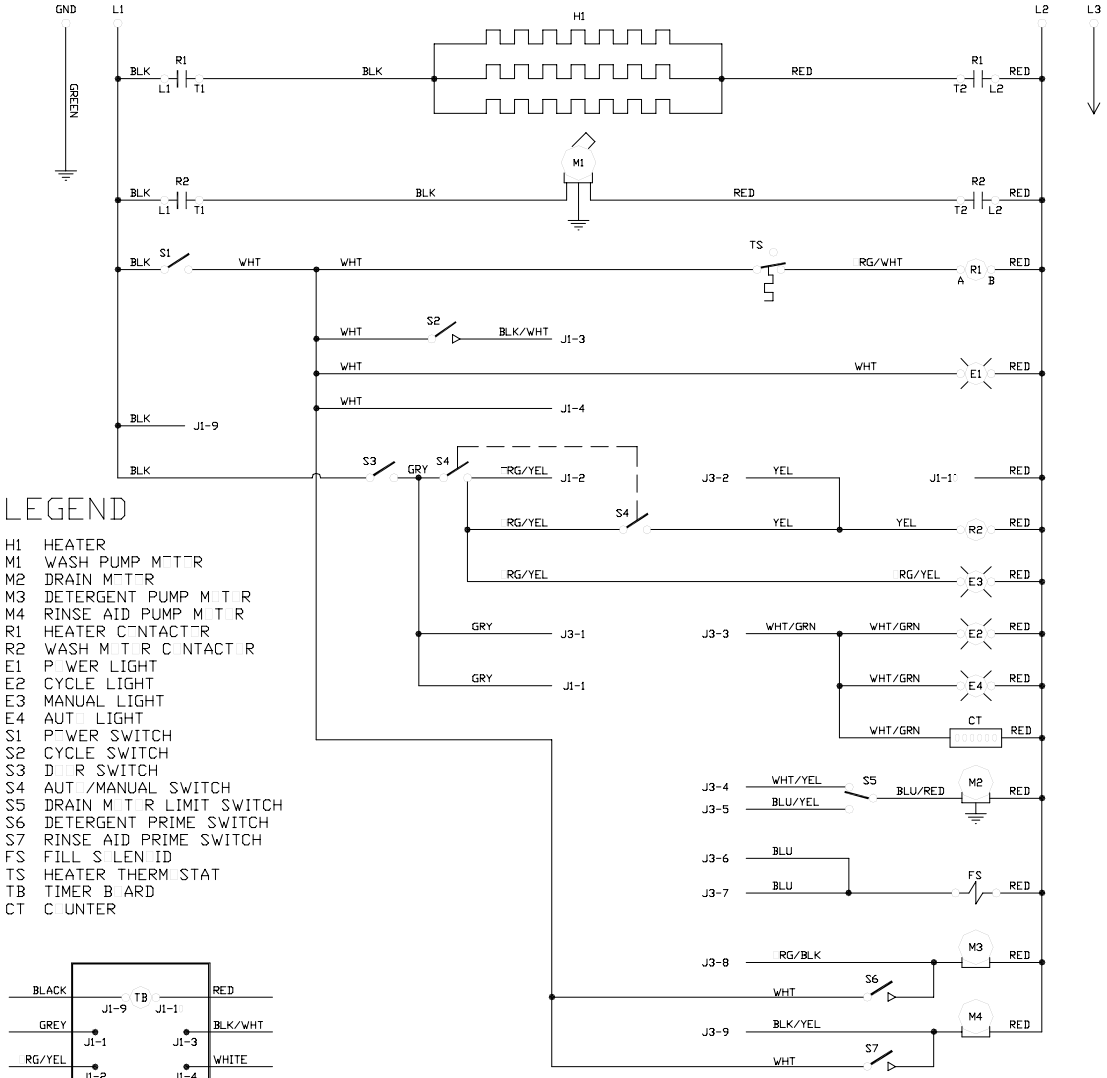
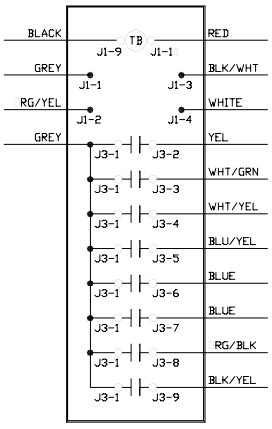
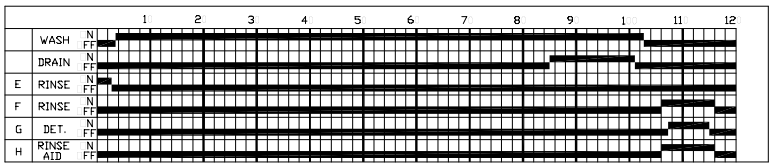


LEGEND

H1 HEATER
M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 DETERGENT PUMP MOTOR
M4 RINSE AID PUMP MOTOR
R1 HEATER CONTACTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 DETERGENT PRIME SWITCH
S7 RINSE AID PRIME SWITCH
FS FILL SOLENOID
TS HEATER THERMOSTAT
TB TIMER BOARD
CT COUNTER



TIMING CHART



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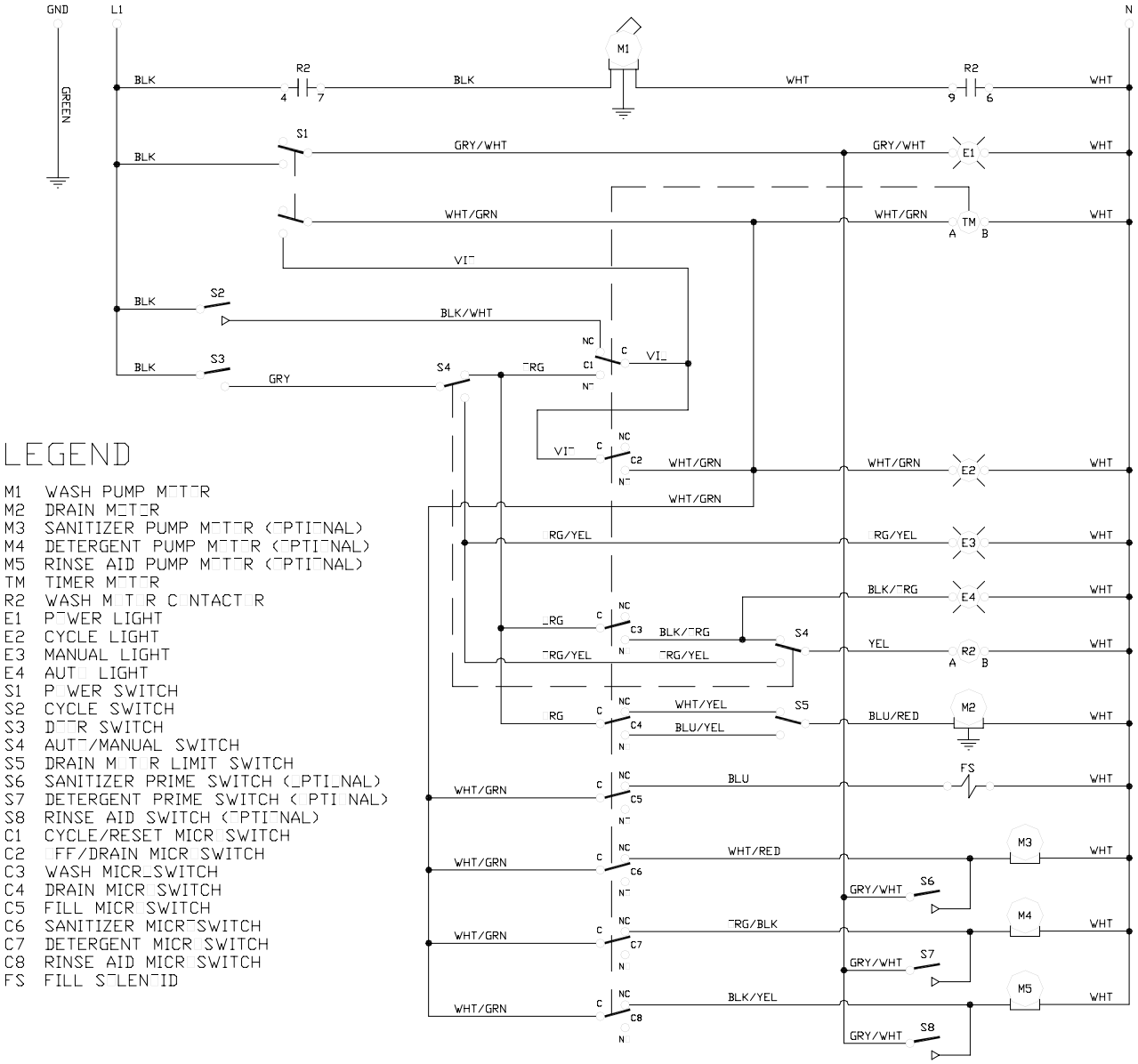
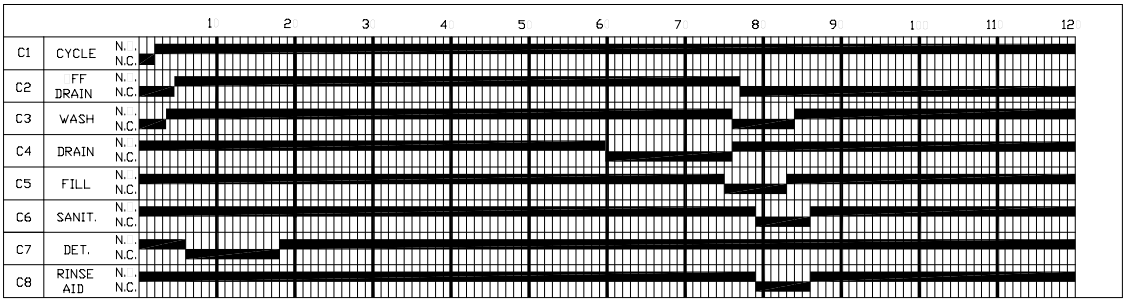


LEGEND

M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 SANITIZER PUMP MOTOR (OPTIONAL)
M4 DETERGENT PUMP MOTOR (OPTIONAL)
M5 RINSE AID PUMP MOTOR (OPTIONAL)
TM TIMER MOTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 SANITIZER PRIME SWITCH (OPTIONAL)
S7 DETERGENT PRIME SWITCH (OPTIONAL)
S8 RINSE AID SWITCH (OPTIONAL)
C1 CYCLE/RESET MICRO SWITCH
C2 FF/DRAIN MICRO SWITCH
C3 WASH MICRO SWITCH
C4 DRAIN MICRO SWITCH
C5 FILL MICRO SWITCH
C6 SANITIZER MICRO SWITCH
C7 DETERGENT MICRO SWITCH
C8 RINSE AID MICRO SWITCH
FS FILL SOLENOID

TIMING CHART



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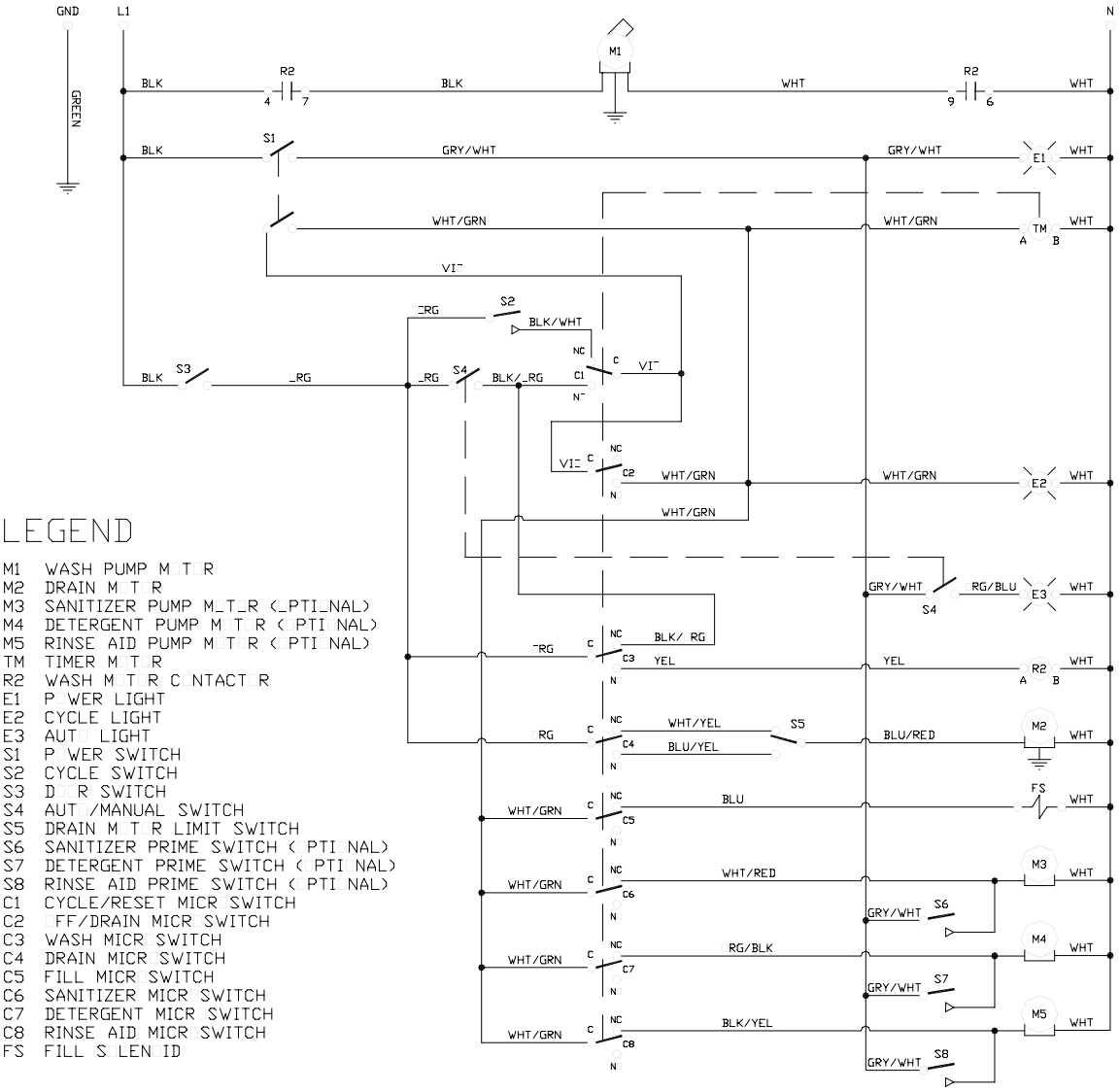
SECTION 7: ELECTRICAL SCHEMATIC

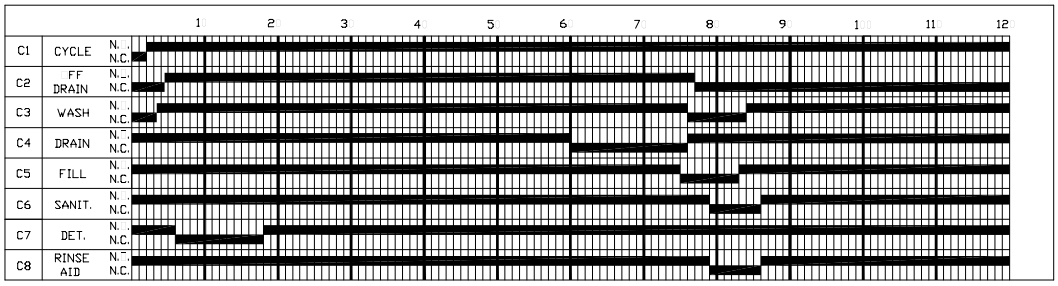
JPX-300L (FOR USE WITH STAINLESS STEEL SWITCHES) 115 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 SANITIZER PUMP M_T_R (_PTI_NAL)
M4 DETERGENT PUMP MOTOR (OPTIONAL)
M5 RINSE AID PUMP MOTOR (OPTIONAL)
TM TIMER MOTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 SANITIZER PRIME SWITCH (OPTIONAL)
S7 DETERGENT PRIME SWITCH (OPTIONAL)
S8 RINSE AID PRIME SWITCH (OPTIONAL)
C1 CYCLE/RESET MICRO SWITCH
C2 OFF/DRAIN MICRO SWITCH
C3 WASH MICRO SWITCH
C4 DRAIN MICRO SWITCH
C5 FILL MICRO SWITCH
C6 SANITIZER MICRO SWITCH
C7 DETERGENT MICRO SWITCH
C8 RINSE AID MICRO SWITCH
FS FILL SOLENOID

TIMING CHART



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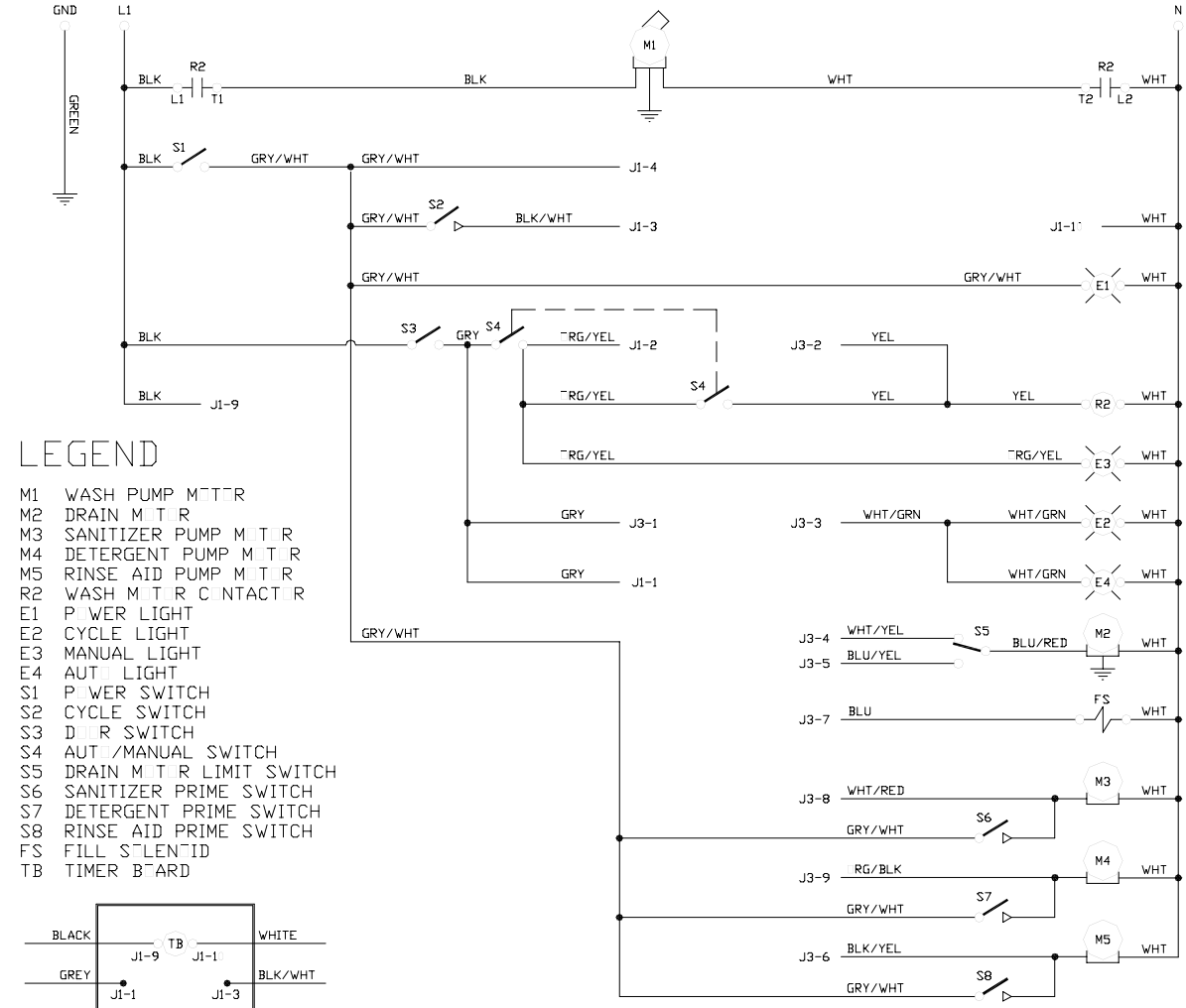
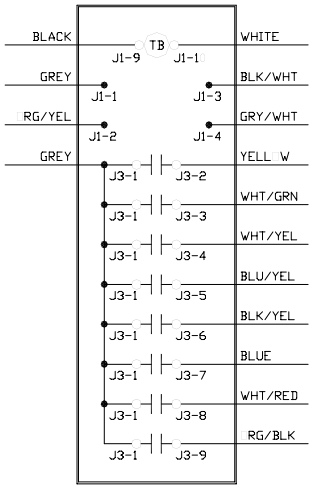
SECTION 7: ELECTRICAL SCHEMATICS

JPX-300L (UNIVERSAL TIMER & SS SWITCHES) 115 VOLT - 60 HERTZ - SINGLE PHASE

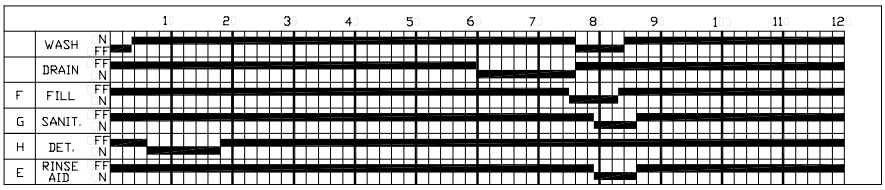


LEGEND

M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 SANITIZER PUMP MOTOR
M4 DETERGENT PUMP MOTOR
M5 RINSE AID PUMP MOTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 SANITIZER PRIME SWITCH
S7 DETERGENT PRIME SWITCH
S8 RINSE AID PRIME SWITCH
FS FILL SOLENOID
TB TIMER BOARD



TIMING CHART



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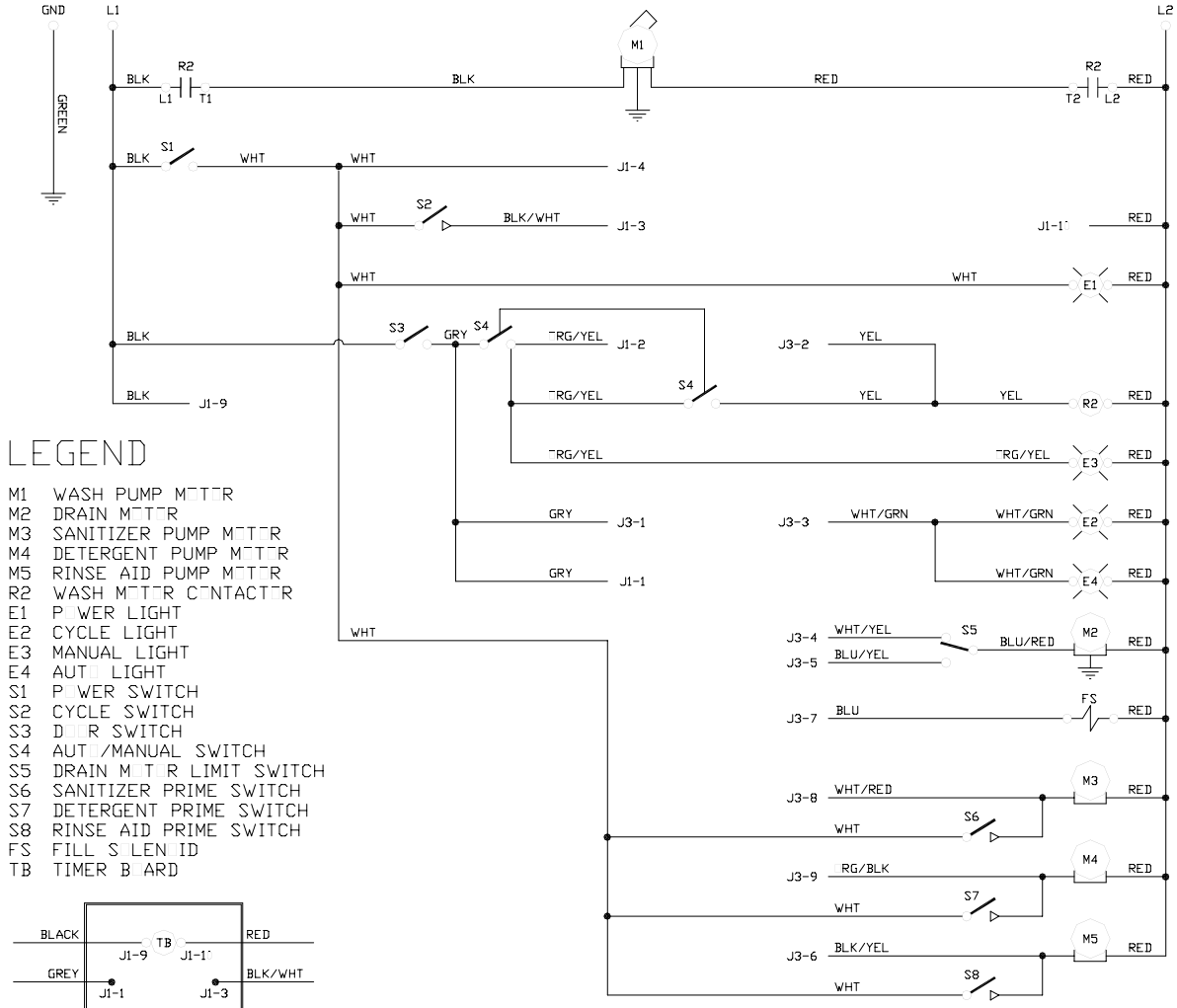
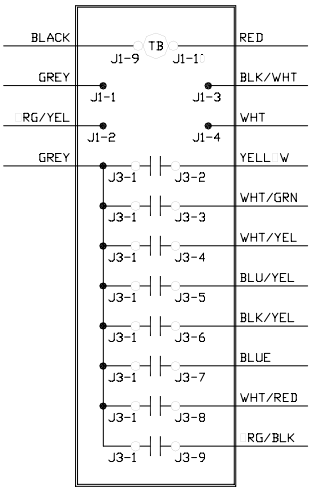
JPX-300L (UNIVERSAL TIMER & SS SWITCHES) 208-230 VOLT - 60 HERTZ - SINGLE PHASE



LEGEND

M1 WASH PUMP MOTOR
M2 DRAIN MOTOR
M3 SANITIZER PUMP MOTOR
M4 DETERGENT PUMP MOTOR
M5 RINSE AID PUMP MOTOR
R2 WASH MOTOR CONTACTOR
E1 POWER LIGHT
E2 CYCLE LIGHT
E3 MANUAL LIGHT
E4 AUTO LIGHT
S1 POWER SWITCH
S2 CYCLE SWITCH
S3 DOOR SWITCH
S4 AUTO/MANUAL SWITCH
S5 DRAIN MOTOR LIMIT SWITCH
S6 SANITIZER PRIME SWITCH
S7 DETERGENT PRIME SWITCH
S8 RINSE AID PRIME SWITCH
FS FILL SOLENOID
TB TIMER BOARD



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TIMING CHART