

## INSTALLATION/OPERATION & TECHNICAL MANUAL

### *ELECTRICALLY HEATED MODELS:*

TEMPSTAR



TEMPSTAR LT



TEMPSTAR NB



### *STEAM HEATED MODELS:*

TEMPSTAR S



# Jackson





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## **MANUFACTURERS WARRANTY**

### **ONE YEAR LIMITED PARTS & LABOR WARRANTY**

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

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

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

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

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

#### **TRAVEL LIMITATIONS**

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

#### **WARRANTY REGISTRATION CARD**

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

#### **REPLACEMENT PARTS WARRANTY**

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

#### **PRODUCT CHANGES AND UPDATES**

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

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

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

#### **ITEMS NOT COVERED**

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

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**CALL 1-888-800-5672 TO REGISTER THIS PRODUCT!  
FAILURE TO DO SO WILL VOID THE WARRANTY!**

**LLAME AL 1-888-800-5672 PARA REGISTRAR ESTE PRODUCTO!  
AL NO HACERLO LA GARANTIA SERA ANULADA!**

**S.V.P. APPELER 1-888-800-5672 POUR ENREGISTRER CE PRODUIT,  
LA GARANTIE SERA ANNULEE POUR TOUT PRODUIT NON- ENREGISTREE**

<b>REVISION</b>	<b>REVISION DATE</b>	<b>MADE BY</b>	<b>APPLICABLE ECN</b>	<b>DETAILS</b>
A	11/11/08	ARL	8045	Released to production.
B	04/22/2009	ARL	8094	Added new NSF rating.
C	06/22/2009	JC	8114	Removed NSF Rating from steam heated unit.
D	07/24/2009	ARL	8104	Added information regarding electrical field conversion.

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NOMENCLATURE FOR THE MODELS COVERED IN THIS MANUAL

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TEMPSTAR = Electrically heated, high temp, hot water sanitizing, with booster heater, door-type dish-machine  
TEMPSTAR LT = Electrically heated, low temp, chemical sanitizing, no rinse booster, door-type dish-machine  
TEMPSTAR NB = Electrically heated, high temp, hot water sanitizing, no rinse booster, door-type dish-machine  
TEMPSTAR S = Steam heated, high temp, hot water sanitizing, door-type dishmachine

**Model:** \_\_\_\_\_

**Serial No.:** \_\_\_\_\_

**Installation Date:** \_\_\_\_\_

**Service Rep. Name:** \_\_\_\_\_

**Phone No.:** \_\_\_\_\_

Jackson MSC LLC. 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**

## SECTION 1: SPECIFICATION INFORMATION

### OPERATING CAPACITIES

#### PERFORMANCE/CAPABILITIES

##### OPERATING CAPACITY:

(HIGH TEMPERATURE)	
RACKS PER HOUR	58
DISHES PER HOUR	1450
GLASSES PER HOUR	1450

##### (LOW TEMPERATURE)

RACKS PER HOUR	50
DISHES PER HOUR	1250
GLASSES PER HOUR	1250

##### OPERATING CYCLE (SECONDS):

##### MINIMUM (OTHER CYCLE TIMES ARE AVAILABLE)

(HIGH TEMPERATURE)	
WASH TIME	40
RINSE TIME	13
DWELL TIME	4
TOTAL CYCLE TIME	57

##### (LOW TEMPERATURE)

WASH TIME	45
RINSE TIME	11
DWELL TIME	10
TOTAL CYCLE TIME	66

##### TANK CAPACITY:

WASH TANK (GAL)	8.0
WASH TANK (L)	30.3
RINSE TANK (TEMPSTAR) (GAL)	3.0
RINSE TANK (TEMPSTAR) (L)	11.4

##### STEAM REQUIREMENTS:

COIL SIZE	3/4"
STEAM FLOW PRESSURE (P.S.I.)	10-20
CONSUMPTION @ 15 P.S.I. (LBS/HR)	45

##### ELECTRICAL REQUIREMENTS

WASH MOTOR HP	3/4
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**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.**

#### WATER REQUIREMENTS

##### TEMPSTAR:

WASH TEMPERATURE (MINIMUM)(°F)	150
WASH TEMPERATURE (MINIMUM)(°C)	66
RINSE TEMPERATURE (MINIMUM)(°F)	180
RINSE TEMPERATURE (MINIMUM)(°C)	83
INLET WATER TEMPERATURE:	
12KW RINSE HEATER (°F)	140
12KW RINSE HEATER (°C)	60
14KW RINSE HEATER (°F)	110
14KW RINSE HEATER (°C)	44
FLOW PRESSURE (PSI)	10
WATER LINE SIZE (NPT)	1/2"
DRAIN LINE SIZE (NPT)	1 1/2"

##### TEMPSTAR LT:

WASH TEMPERATURE (MINIMUM)(°F)	130
WASH TEMPERATURE (MINIMUM)(°C)	55
RINSE TEMPERATURE (MINIMUM)(°F)	130
RINSE TEMPERATURE (MINIMUM)(°C)	55
INLET WATER TEMPERATURE (°F)	130
INLET WATER TEMPERATURE (°C)	55
FLOW PRESSURE (PSI)	10
WATER LINE SIZE (NPT)	1/2"
DRAIN LINE SIZE (NPT)	1 1/2"
MINIMUM CHLORINE REQUIRED (PPM)	50

##### TEMPSTAR NB/TEMPSTAR S:

WASH TEMPERATURE (MINIMUM)(°F)	150
WASH TEMPERATURE (MINIMUM)(°C)	66
RINSE TEMPERATURE (MINIMUM)(°F)	180
RINSE TEMPERATURE (MINIMUM)(°C)	83
INLET WATER TEMPERATURE (°F)	180
INLET WATER TEMPERATURE (°C)	83
FLOW PRESSURE (PSI)	10
WATER LINE SIZE (NPT)	1/2"
DRAIN LINE SIZE (NPT)	1 1/2"

## SECTION 1: SPECIFICATION INFORMATION

### ELECTRICAL REQUIREMENTS

**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.**

#### TEMPSTAR:

<u>VOLTS</u>	<u>PH</u>	<u>HZ</u>	<u>RINSE HEATER RATINGS</u>	<u>TOTAL AMPS</u>	<u>TYPICAL ELECTRICAL CIRCUIT</u>
208	1	50	12KW@240V	71 A	90 AMP
208	1	50	14KW@240V	78 A	100 AMP
230	1	50	12KW@240V	78 A	100 AMP
230	1	50	14KW@240V	86 A	110 AMP
208	3	50	12KW@240V	45 A	60 AMP
208	3	50	14KW@240V	49 A	70 AMP
230	3	50	12KW@240V	48 A	60 AMP
230	3	50	14KW@240V	53 A	70 AMP
380	3	50	12KW@380V	29 A	40 AMP
380*	3	50	14KW@208V	34 A	45 AMP
415	3	50	12KW@415V	26 A	35 AMP
415	3	50	14KW@415V	29 A	40 AMP
440	3	50	12KW@460V	21 A	30 AMP
440	3	50	14KW@460V	25 A	35 AMP
208	1	60	12KW@240V	69 A	90 AMP
208	1	60	14KW@240V	76 A	100 AMP
230	1	60	12KW@240V	76 A	100AMP
230	1	60	14KW@240V	84 A	110 AMP
208	3	60	12KW@240V	43 A	60 AMP
208	3	60	14KW@240V	47 A	60 AMP
230	3	60	12KW@240V	46 A	60 AMP
230	3	60	14KW@240V	51 A	70 AMP
460	3	60	12KW@480V	22 A	30 AMP
460	3	60	14KW@480V	25 A	35 AMP

#### TEMPSTAR LT/TEMPSTAR NB:

<u>VOLTS</u>	<u>PH</u>	<u>HZ</u>	<u>RINSE HEATER RATINGS</u>	<u>TOTAL AMPS</u>	<u>TYPICAL ELECTRICAL CIRCUIT</u>
208	1	50	N/A	28 A	35 AMP
230	1	50	N/A	30 A	40 AMP
208	3	50	N/A	20 A	25 AMP
230	3	50	N/A	21 A	30 AMP
380	3	50	N/A	10 A	15 AMP
415	3	50	N/A	10 A	15 AMP
440	3	50	N/A	8 A	15 AMP
208	1	60	N/A	26 A	35 AMP
230	1	60	N/A	28 A	35 AMP
208	3	60	N/A	18 A	25 AMP
230	3	60	N/A	28 A	35 AMP
460	3	60	N/A	8 A	15 AMP

#### TEMPSTAR S:

<u>VOLTS</u>	<u>PH</u>	<u>HZ</u>	<u>RINSE HEATER RATINGS</u>	<u>TOTAL AMPS</u>	<u>TYPICAL ELECTRICAL CIRCUIT</u>
208	1	60	N/A	6 A	15 AMP
230	1	60	N/A	6 A	15 AMP
208	3	60	N/A	6 A	15 AMP
230	3	60	N/A	6 A	15 AMP

\* This model is wired in a wye configuration for the heaters.

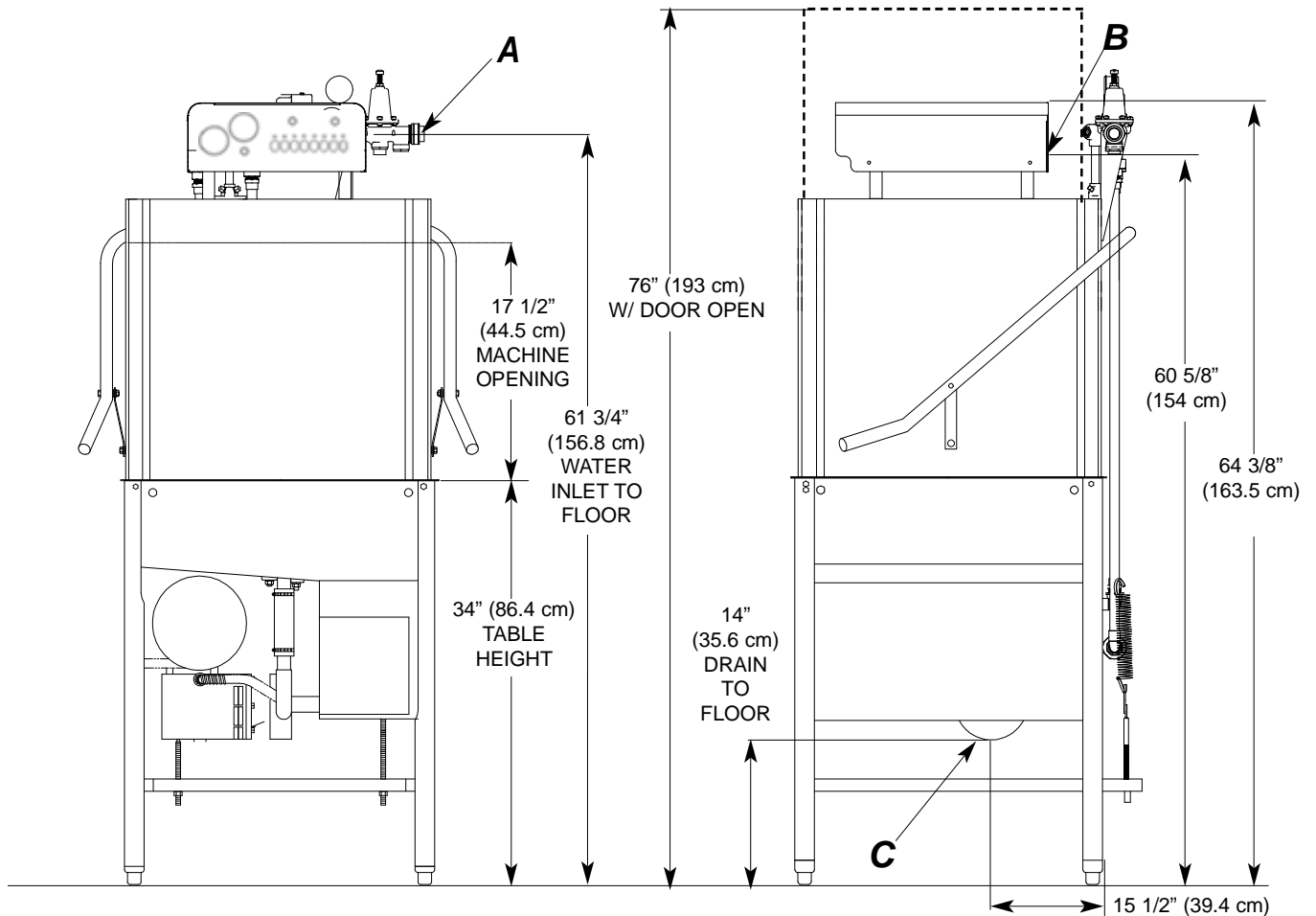
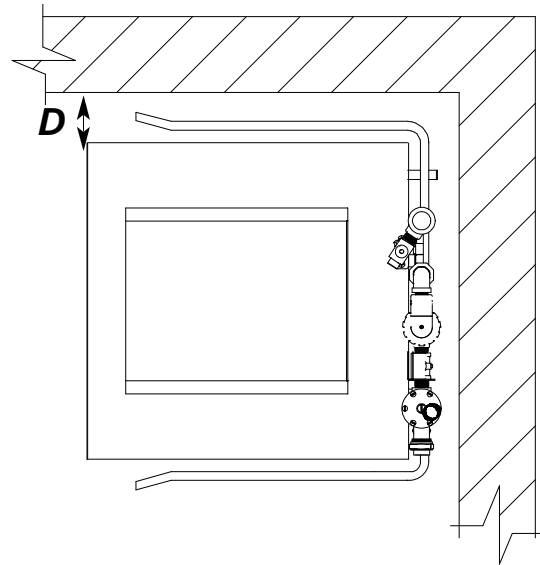
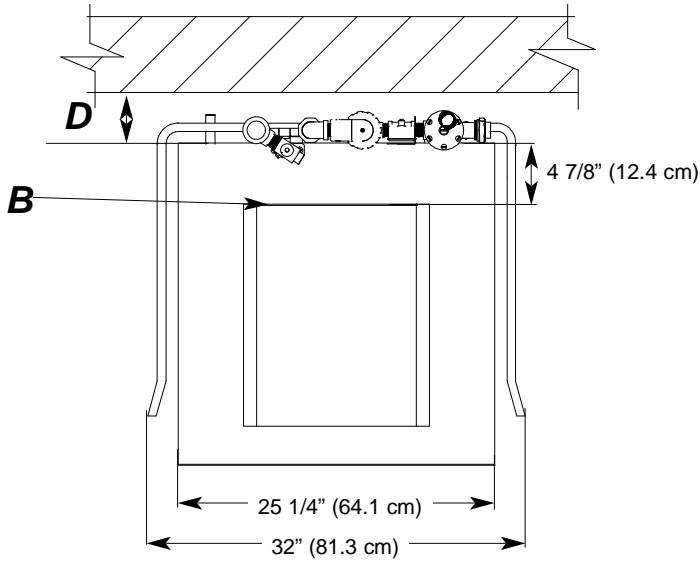
## SECTION 1: SPECIFICATION INFORMATION

### DIMENSIONS TEMPSTAR/NB/LT/S (TOP MOUNTED CONTROL BOX)

- A- WATER INLET (1/2" NPT)
- B- ELECTRICAL CONNECTION POINT
- C- DRAIN (1 1/2" NPT)

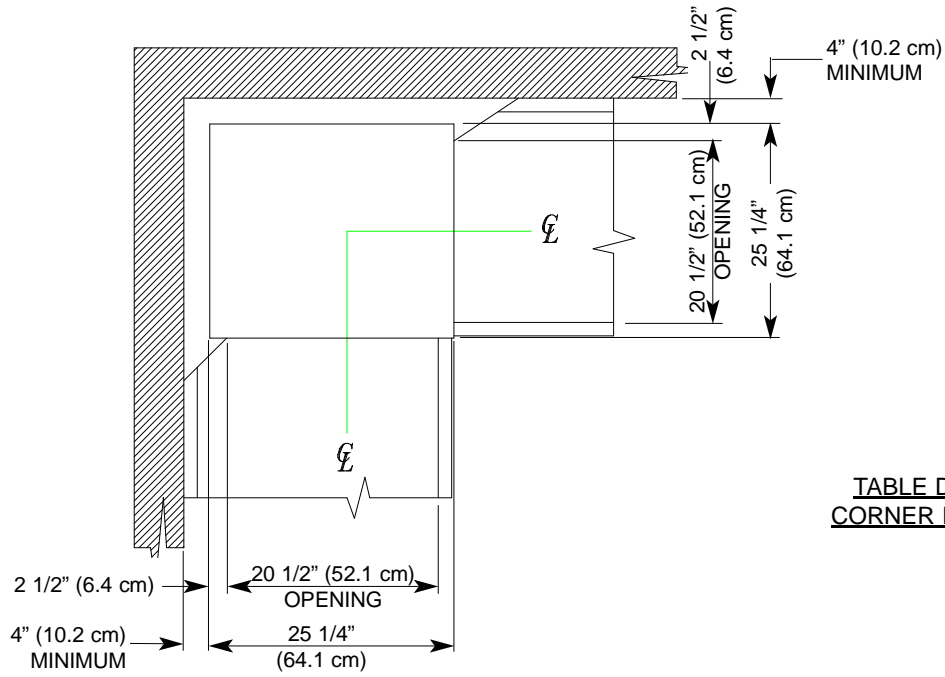
**LEGEND**

**D- STANDARD CLEARANCE BETWEEN MACHINE AND WALL (WITH DISHTABLE) IS 4" (10.2 cm).**

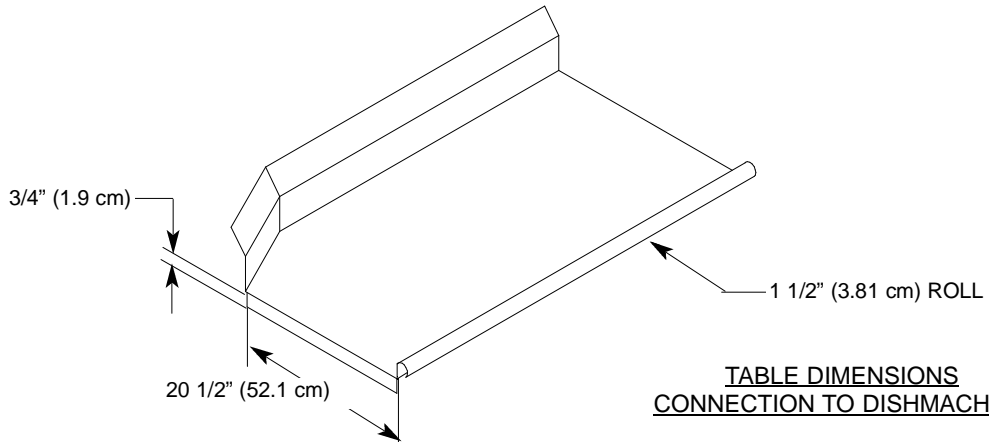


# SECTION 1: SPECIFICATION INFORMATION

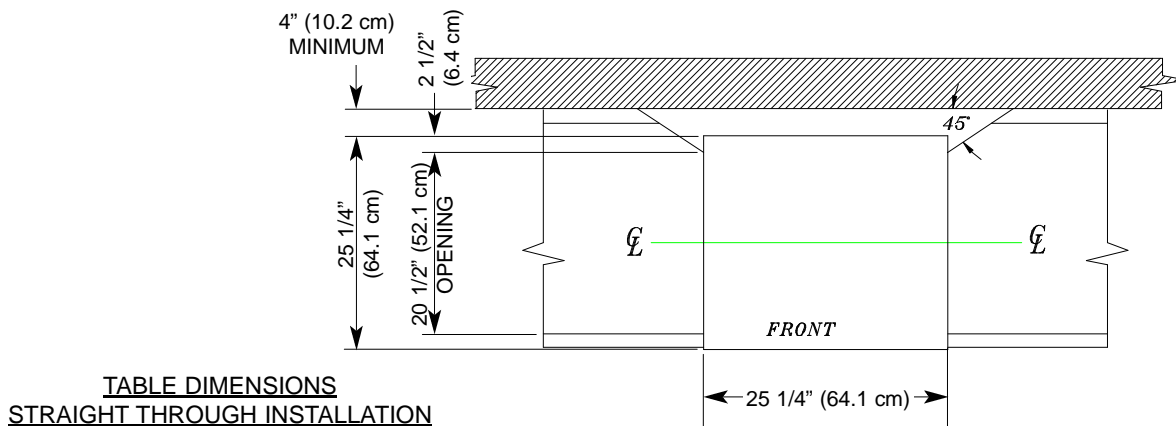
## TABLE DIMENSIONS



**TABLE DIMENSIONS  
CORNER INSTALLATION**



**TABLE DIMENSIONS  
CONNECTION TO DISHWASHER**



**TABLE DIMENSIONS  
STRAIGHT THROUGH INSTALLATION**

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**SECTION 2:  
INSTALLATION/OPERATION  
INSTRUCTIONS**

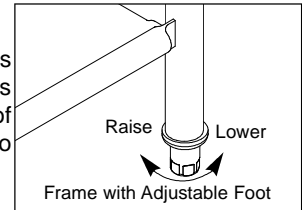
## SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

### 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.

**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.



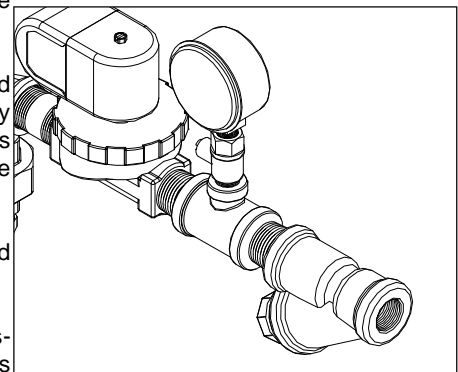
**PLUMBING THE DISHMACHINE:** All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is thoroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove 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.

**CONNECTING THE DRAIN LINE:** The drain for the Tempstar models covered in this manual are gravity discharge drains. All piping from the 1 1/2" FNPT connection on the wash tank must be pitched (1/4" per foot) to the floor or sink drain. All piping from the machine to the drain must be a minimum 1 1/2" I.P.S. and shall not be reduced. 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 5 gallons per minute.

**WATER SUPPLY CONNECTION:** Ensure that you have read the section entitled "PLUMBING THE DISHMACHINE" above before proceeding. Install the water supply line (1/2" pipe size minimum) to the dishmachine line strainer using copper pipe. 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 10 PSI "flow" pressure at the recommended temperature indicated on the data plate.

In areas where the water pressure fluctuates or is greater than the recommended pressure, it is suggested that a water pressure regulator be installed. The Tempstar models covered in this manual come with water pressure regulators as standard equipment. Please notify Jackson immediately if this component is not present on your machine.



Incoming Plumbing Y-strainer Connection

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.

It is also recommended that a shock absorber (not supplied with the Tempstar model) 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.

**STEAM LINE CONNECTION:** The steam machines come with lines by which the source steam needs to be connected. Connect all steam lines to the machine as all applicable codes provide. See machine data plate for information concerning steam flow pressure.

**CHEMICAL DISPENSING EQUIPMENT:** The Tempstar LT machine requires that a separate chemical feeder be connected to it to provide the required detergent and sanitizer. This feeder needs to be able to operate against a head of 25 PSI and provide 1.79 ml of a 10% Chlorine sanitizer per minute.

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## SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

### INSTALLATION INSTRUCTIONS (CONTINUED)

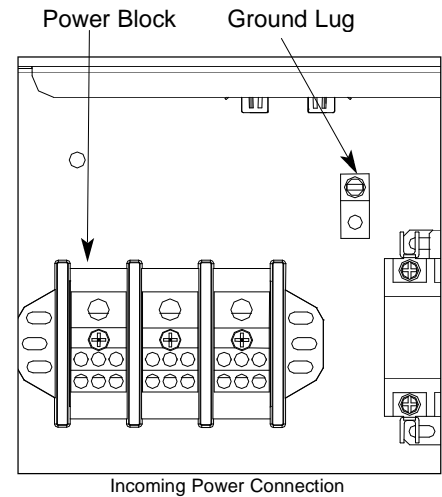
**PLUMBING CHECK:** Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

**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 right side and to 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, open the control box. This will require taking a phillipshead screwdriver and removing the four (4) screws on the front cover of the control box. Install 3/4" conduit into the pre-punched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1, L2, and L3 (3 phase only)) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Tighten the connections. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.



**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.



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## SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

### OPERATION INSTRUCTIONS

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

1. The pan strainer and pump suction strainer are in place and are clean.
2. The overflow tube and o-ring are installed.
3. 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.

**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:** Ensure that the delime switch is in the NORMAL position, and place the power switch into the ON position. The Tempstar should fill automatically and shut off when the appropriate level is reached (just below the pan strainer). Verify that the drain stopper is preventing the wash tub water from leaking excessively. There may be some slight leakage from the drain hole. Verify that there are no other leaks on the unit before proceeding any further. The wash tub 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.

**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 unscrapped 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 may be necessary 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. Lift the doors and the cycle light will illuminate. When the light goes out, close the doors, 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 doors completely (being careful for hot water that may drip from the doors) and slide the rack into the unit.

Close the doors and the unit will start automatically. Once the cycle is completed, open the door (again watching for the dripping hot water) and remove the rack of clean ware. Replace with a rack of soiled ware and close the doors. 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 doors. When the unit completes the cycle, turn the power switch to the OFF position and open the doors. Remove and clean the pan strainer. Remove the drain stopper from the tub and allow the tub to drain (NOTE: the wash tank water will be hot so caution is advised). Once the wash tub is drained, remove the pump suction 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. Reassembly 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 drain stopper and strainers and close the doors.

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## SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

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### 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.

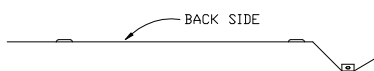
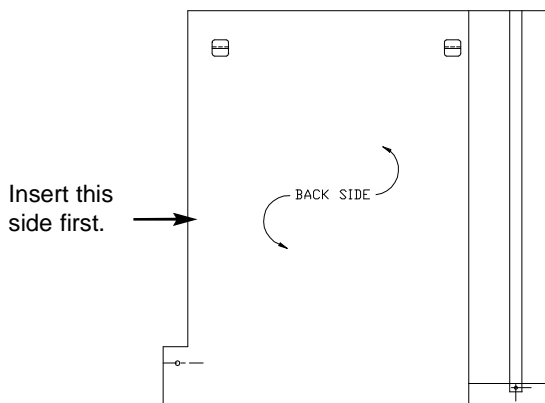
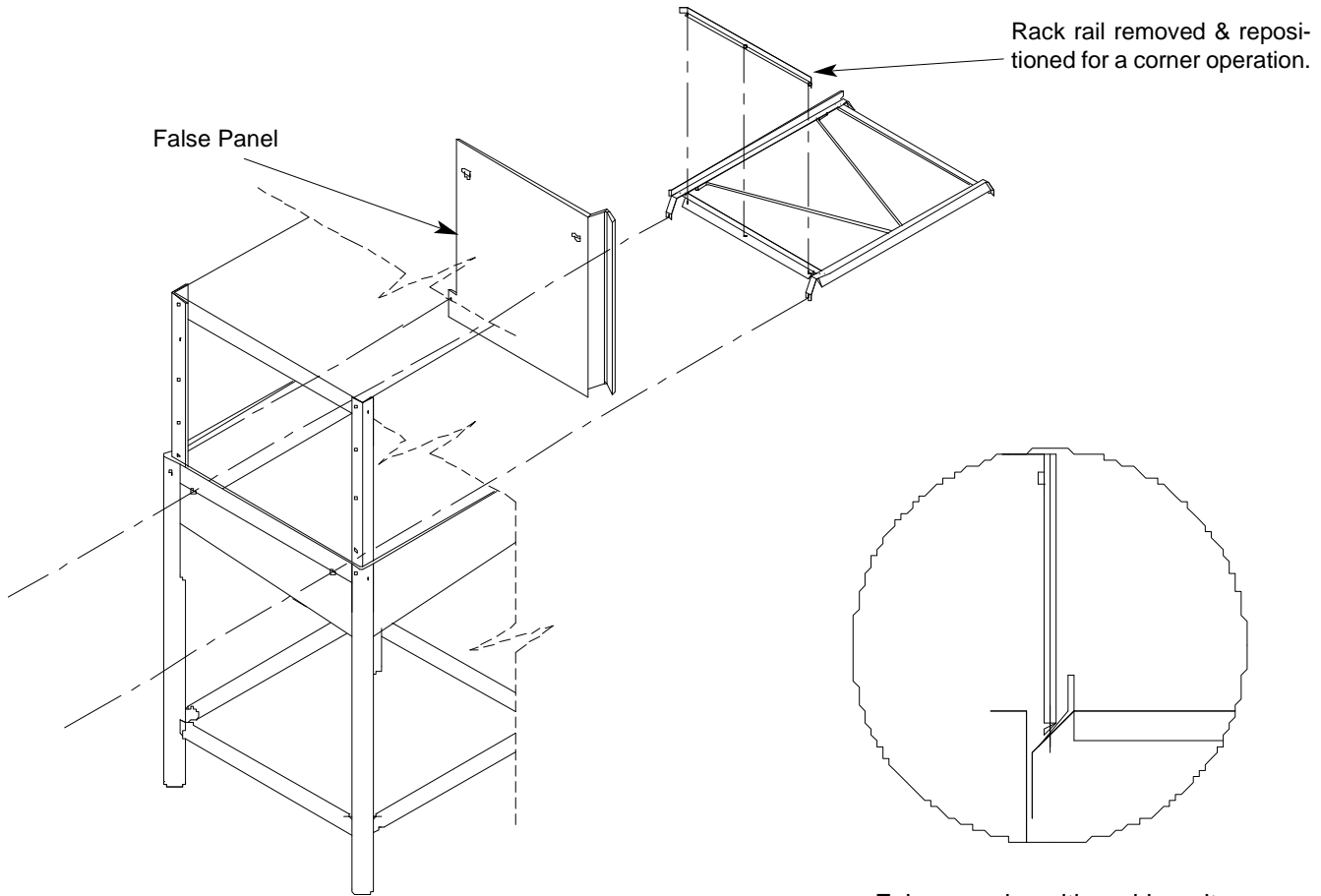
Some dishmachines come equipped with integral solid detergent dispensers. These dispensers are designed to accommodate detergents in a certain sized container. If you have such a unit, remember to explain this to your chemical distributor upon first contacting them.

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

### FALSE PANEL INSTALLATION



Bottom of side panel.

1. Remove the rack assembly from the unit.
2. False panel will mount inside the dishmachine.
3. Position panel in unit on side to be closed.
4. Hold panel against side of dishmachine and push up.
5. Panel will clip in at the top, inside unit.
6. Holes in false panel will line up with rack assembly holes.
7. Re-install screws for rack assembly which will secure false panel to unit.
8. Re-assemble the rack track in an "L" shape for a corner operation.

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## **SECTION 3: PREVENTATIVE MAINTENANCE**

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## SECTION 3: PREVENTATIVE MAINTENANCE

### PREVENTATIVE MAINTENANCE

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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, so if you have a question or concern, do not hesitate to contact one of the **QUALIFIED SERVICE AGENCIES** listed in the back of this manual.

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 prescraping 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 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 have nothing to do with the machine itself and no amount of preventative maintenance 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.

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## **SECTION 4: TROUBLESHOOTING SECTION**

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## SECTION 4: TROUBLESHOOTING

### COMMON PROBLEMS



**WARNING:** Inspection, testing and repair of electrical equipment should only be performed by a qualified service technician. Many of the tests require that the unit have power to it and live electrical components be exposed. **USE EXTREME CAUTION WHEN TESTING THE MACHINE.**

**Problem: Dishmachine will not fill after the door is close. Power “ON” light is illuminated.**

1. Faulty rinse solenoid valve. Repair or replace valve as required.
2. Faulty door switch. Verify the wiring of the switch; if correct, replace the switch.
3. Fouled/faulty high level probe. Clean probe if fouled. If clean, and still not working, replace.

**Problem: Dishmachine will not fill after the door is closed. Power “ON” light is not illuminated.**

1. Service breaker tripped. Reset. If the breaker trips again, contact an electrician to verify the amp draw of the machine.
2. Machine not connected to power source. Verify that the machine has been properly connected to the power source.
3. Faulty power source. Verify the wiring of the switch; if correct, replace switch.

**Problem: Dishmachine will not run after the door is closed. Power “ON” light is illuminated and the unit is filling.**

1. Timer is faulty. Check to see that the timer is receiving power. If so, replace the timer assembly.
2. Wash motor faulty/damaged. Verify that the wash motor is getting power. If so, replace the motor.
3. Wash motor contactor faulty. Check for continuity; if contacts are open, replace the contactor.

**Problem: Dishmachine runs continuously in the wash cycle.**

1. Machine is in Delime mode. Flip NORMAL/DELIME switch to NORMAL mode.
2. Timer motor is faulty. Verify that the timer is rotating. If not, check to see that the motor is receiving power. If so, replace the motor and/or timer assembly.
3. Cam timer jammed by obstruction. Remove obstruction.

**Problem: Wash or rinse heater does not work.**

1. Faulty heater element. Check element for continuity; if open, replace the heater.
2. Faulty heater contactor. Replace the contactor.
3. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.

**Problem: Dishmachine fill slowly and/or the rinse is weak.**

1. Clogged or obstructed rinse arms. Remove and clean the rinse arms.
2. Low incoming water pressure. Adjust the water pressure regulator to ensure that there is  $20 \pm 5$  PSI flow.
3. Y-strainer is clogged. Clean out the Y-strainer.

**Problem: Rinse water not reaching required temperature.**

1. Faulty rinse heater. Check element for continuity; if open, replace heater.
2. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.
3. Rinse thermometer is defective. Replace thermometer.

**Problem: Wash water is not reaching required temperature.**

1. Faulty wash heater. Check element for continuity; if open, relace the heater.
2. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.
3. Wash thermometer is defective. Replace thermometer.

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## SECTION 4: TROUBLESHOOTING

### COMMON PROBLEMS



**WARNING:** Inspection, testing and repair of electrical equipment should only be performed by a qualified service technician. Many of the tests require that the unit have power to it and live electrical components be exposed. **USE EXTREME CAUTION WHEN TESTING THE MACHINE.**

**Problem: Doors will not close completely.**

1. Improper spring tension. Adjust spring tension as required by loosening (not removing) spring bolt nuts and adjusting the tension. Tighten nuts back when done.
2. Obstruction in door channel. Remove the obstruction.
3. Doors are not square with frame. Adjust the frame to accommodate the doors.

**Problem: Water leaks at the wash pump.**

1. Wash pump seal defective. Replace the seal.
2. Petcock or pump drain (if equipped) not shut/tight. Close or tighten.
3. Loose hoses (hose clamps) on the wash pump. Tighten the hose clamps.

**Problem: Will not rinse during autcycle.**

1. Defective rinse solenoid. Repair or replace the rinse solenoid as required.
2. Faulty timer. Replace timer.
3. No water to the machine. Verify that there is water at 10 PSI connected to the machine.

**Problem: Dishes are not coming clean.**

1. Machine temperatures are not up to the minimum requirements. Verify that incoming water, rinse water, and wash water match the required temperatures as listed on the machine data plate.
2. No detergent/too much detergent. Adjust detergent concentration as required for the amount of water held by the machine.
3. Solid dispenser canister is empty. Replace the canister.

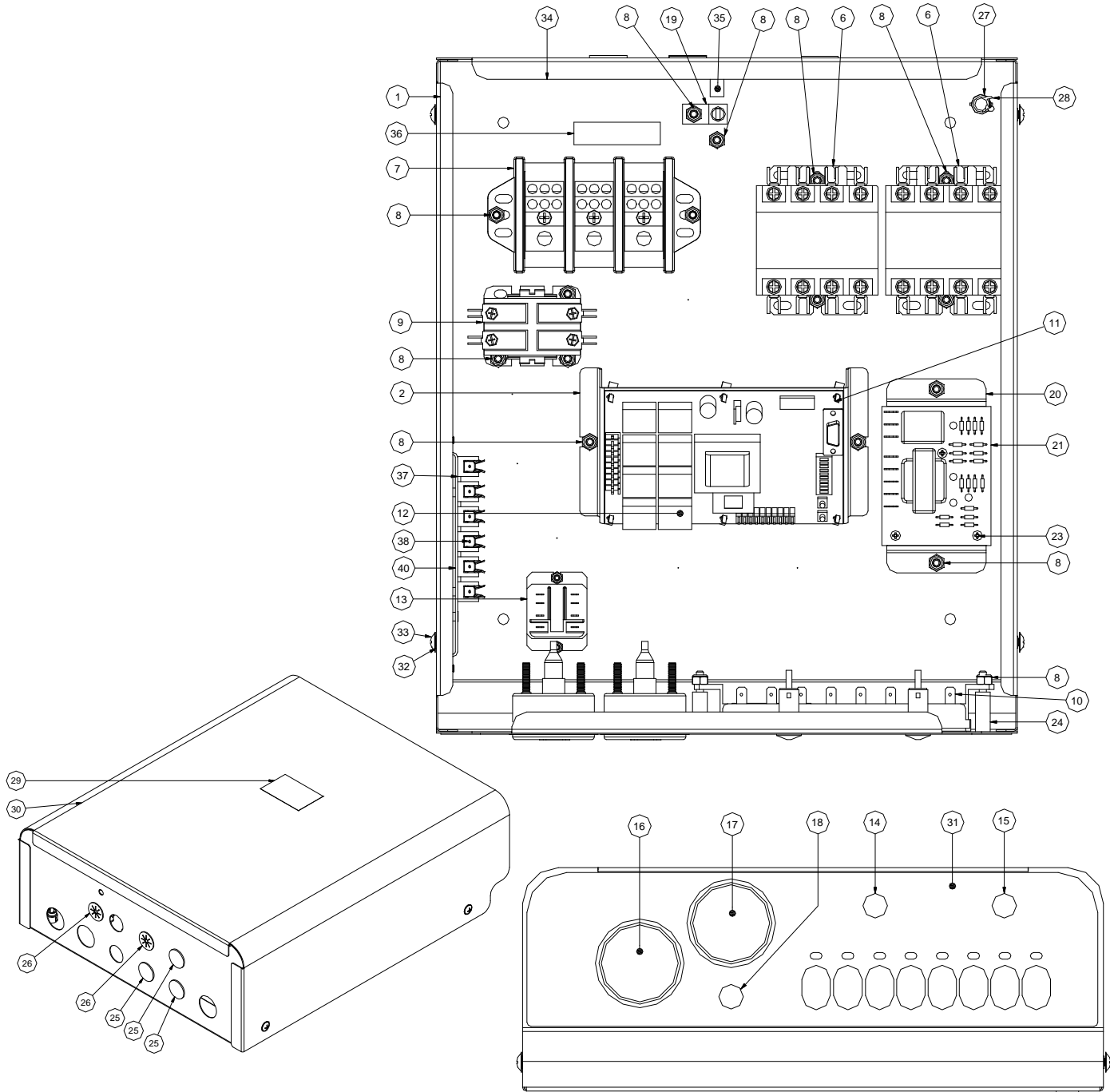


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# **SECTION 5: PARTS SECTION**

## SECTION 5: PARTS SECTION

### TOP MOUNTED CONTROL BOX ASSEMBLY WITH UNIVERSAL TIMER



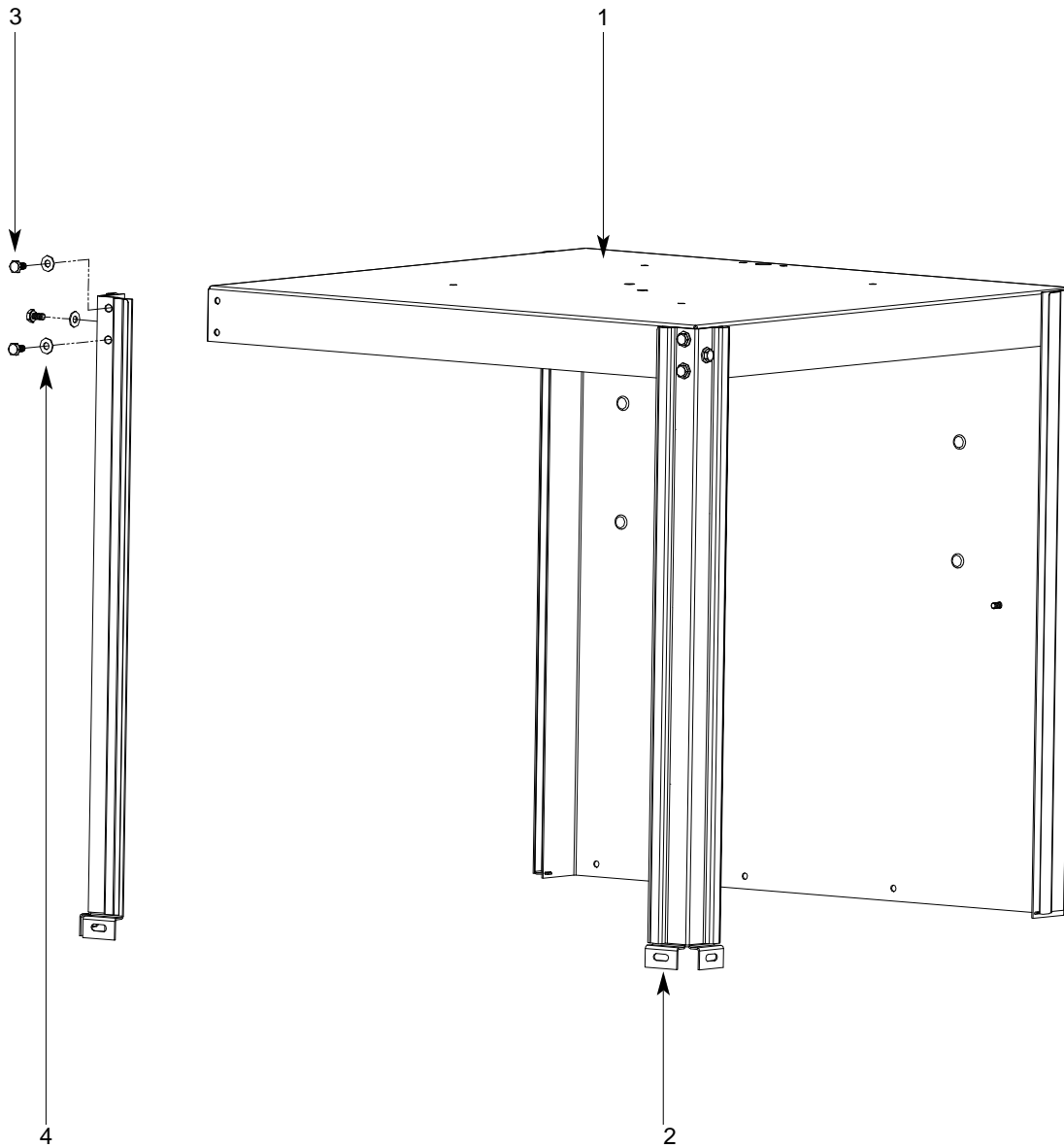
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## SECTION 5: PARTS SECTION

### TOP MOUNTED CONTROL BOX ASSEMBLY WITH UNIVERSAL TIMER (CONTINUED)

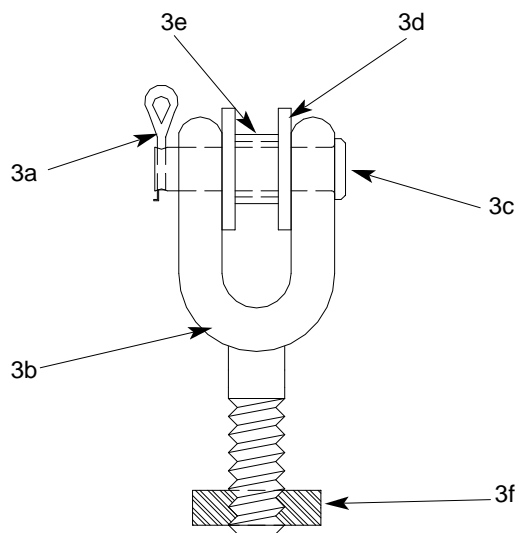
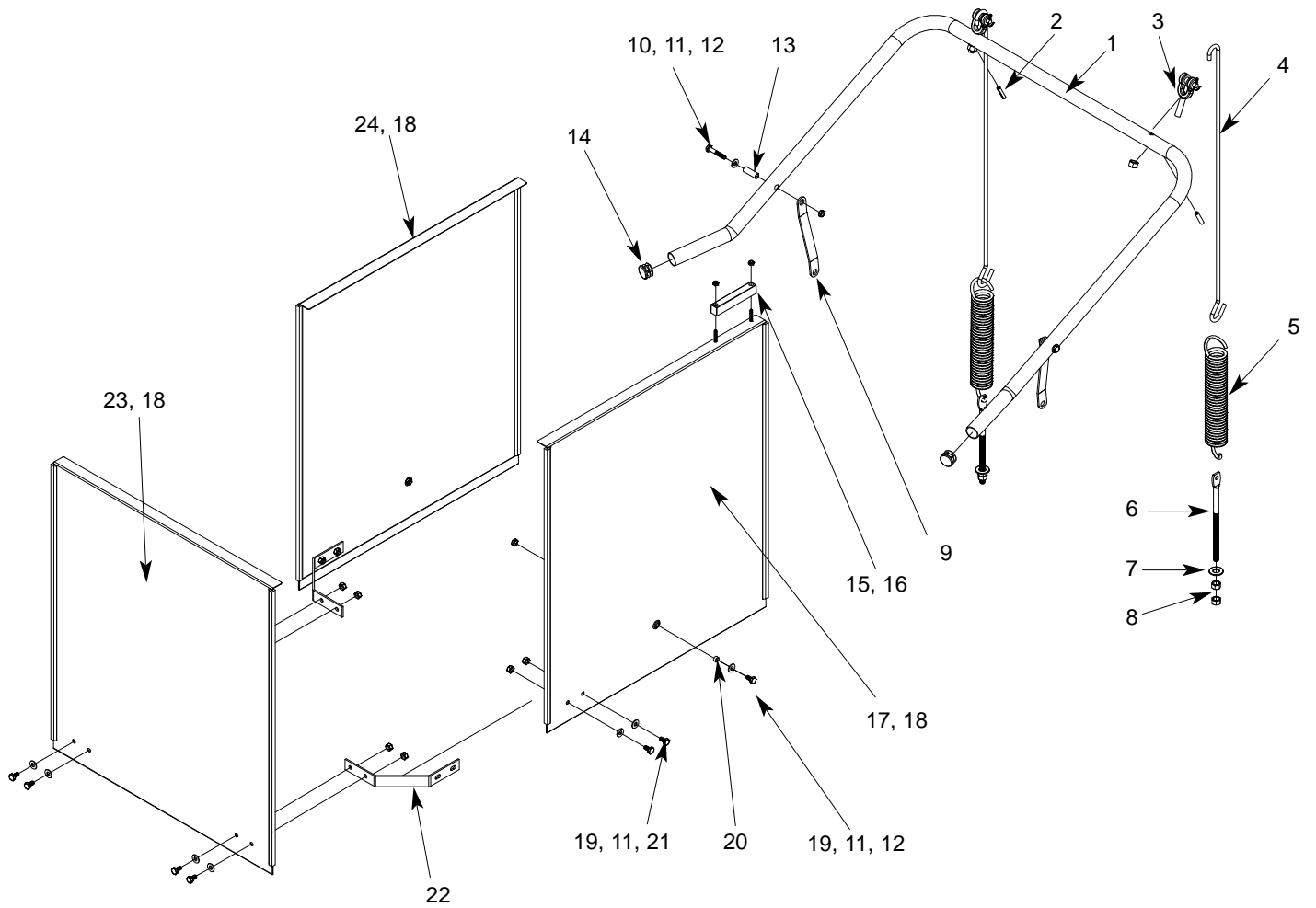
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Control Box Weldment	05700-003-30-14
2	1	Timer Bracket	05700-003-02-08
5	2	Locknut, 6-32 S/S Hex w/Nylon Insert	05310-373-03-00
6	2	Contactora, 4 Pole	05945-109-01-69
7	1	Terminal Block	05940-011-48-27
8	19	Locknut, 10-24 S/S Hex w/Nylon Insert	05310-373-01-00
9	1	Contactora, Wash Motor 208-230, 30Amp	05945-002-74-20
10	1	Switch, 8 Button	05930-001-99-51
11	6	Holder, Keystone	05940-002-21-87
12	1	Timer, Universal	05945-003-33-09
13	1	Relay, All Voltages	05945-111-47-51
	1	Relay, (415V, 3PH, 5 Wire Only)	05945-111-89-75
14	1	Light, Green	05945-111-44-43
15	1	Light, Red	05945-111-44-45
16	1	Temperature Gauge, Wash 96" Lead	06685-111-68-48
17	1	Temperature Gauge, Rinse 48" Lead	06685-111-68-49
18	1	Light, Yellow	05945-111-44-44
19	1	Ground Lug	05940-200-76-00
20	1	Bracket, Liquid Level Control Board	05700-002-13-22
21	1	Liquid Level Control Board	06680-200-08-21
22	6	Tricnut, 6-32	N/A
23	3	Screw, 6-32 x 5/8"	05305-011-39-85
24	1	Spacer, Switch Panel Temp	05700-002-50-02
25	3	Plug, 1/2"	05975-011-47-81
26	2	Grommet, 7/8" Split	05975-200-40-00
27	1	Bushing Snap	05975-210-05-00
28	1	Clamp, Hose, .25-.312	05975-002-61-43
29	1	Decal, Warning-Disconnect Power	09905-100-75-93
30	1	Cover, Top Mount Control Box	05700-002-23-03
31	1	Decal, Control Box	09905-003-60-88
32	4	Lockwasher, Int. Tooth #10	05311-273-03-00
33	4	Screw, 10-32 x 3/8" Phillips Truss Head	05305-173-12-00
34	1	Decal, Copper Conductors	09905-011-47-35
35	1	Decal, Ground	09905-011-86-86
36	1	Decal, L1, L2	09905-002-78-67
37	1	Bracket, Fuse Strip	05700-002-42-03
38	1	Fuse Holder, 6 Pole	05920-002-42-13
39	2	Screw, 6-32 x 3/8" W/ Ext. Tooth Washer	05305-002-25-91
40	1	Decal, Dispenser Connection	09905-003-34-09

**SECTION 5: PARTS SECTION**  
**HOOD ASSEMBLY (BOLTED SINGLE SUPPORT DESIGN)**



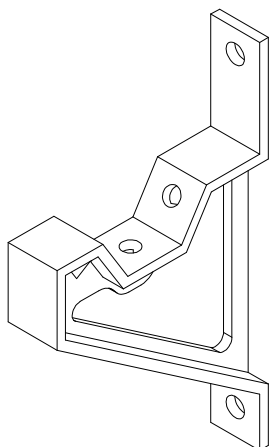
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Hood Weldment (Tempstar/Tempstar LT/Tempstar NB)	05700-002-29-79
2	2	Hood Support	05700-002-78-99
3	6	Bolt, 1/4"-20 x 1/2" Long	05305-274-21-00
4	6	Washer, Flat, SS, 1/4"-20 ID	05311-174-01-00
5	6	Locknut, 1/4"-20 with Nylon Insert (Not Shown)	05310-374-01-00
6	4	Block Spacer	05700-002-81-02

**SECTION 5: PARTS SECTION**  
**CANTILEVER ARM/DOOR ASSEMBLIES**



**SECTION 5: PARTS SECTION**  
**CANTILEVER ARM/DOOR ASSEMBLIES (CONTINUED)**

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Cantilever Arm	05700-031-50-67
2	2	Spring Pin, 1/4" x 1 1/8"	05315-407-06-00
3	2	Yoke Assembly	05700-000-75-77
3a	1	Cotter Pin	05315-207-01-00
3b	1	Yoke	05700-000-75-78
3c	1	Clevis Pin, 5/16" x 1 3/8"	05315-700-01-00
3d	2	Nylon Washer	05311-369-03-00
3e	1	Bushing	03120-100-03-00
3f	2	Locknut, 3/8"-16 S/S Hex Center	05310-256-04-00
4	2	Rod, Spring	05700-002-29-38
5	2	Spring	05340-109-02-00
6	2	Bolt, Cantilever Hanger Eye 3/8"-16	05306-956-05-00
7	2	Washer, 3/8" ID x 7/8" OD S/S	05311-176-02-00
8	4	Nut, 3/8"-16 S/S Hex	05310-276-01-00
9	2	Connector, Cantilever Arm	05700-011-90-99
10	2	Screw, 1/4"-20 x 1 1/2" Long S/S	05305-274-23-00
11	4	Washer, 1/4" S/S	05311-174-01-00
12	4	Locknut, 1/4"-20 S/S Hex with Nylon Insert Low Profile	05310-374-02-00
13	2	Sleeve, Cantilever Arm	05700-000-85-69
14	2	Plug, Cantilever Arm	05340-011-35-00
15	1	Magnet, Reed Switch	05930-111-51-68
16	2	Locknut, 8-32 S/S Hex with Nylon Insert	05310-272-02-00
17	1	Door, Right Side (Complete Assembly)	05700-002-30-88
17A	1	Right Door Weldment with Studs	05700-002-29-85
18	6	Door, Guides	05700-111-33-59
19	2	Screw, 1/4"-20 x 1/2" Long S/S	05305-274-02-00
20	2	Spacer, PB Bolt	05700-000-29-40
21	4	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
22	2	Door Connector Bracket	05700-021-33-39
23	1	Door, Front (Complete Assembly) w/ Decal	05700-002-30-89
23A	1	Door Only, Front	05700-002-29-83
24	1	Door, Left Side (Complete Assembly)	05700-002-30-87
24A	1	Door Only, Left Side	05700-002-29-86
25	4	Door Connecting Plate	05700-002-20-78
26*	2	Bracket, Cantilever Arm Support	05700-031-88-00
27*	6	Wear Button, 1/2" Dia. UHMW	05700-011-88-01
28	1	Decal, Jackson LOGO (Not Shown)	09905-003-57-30

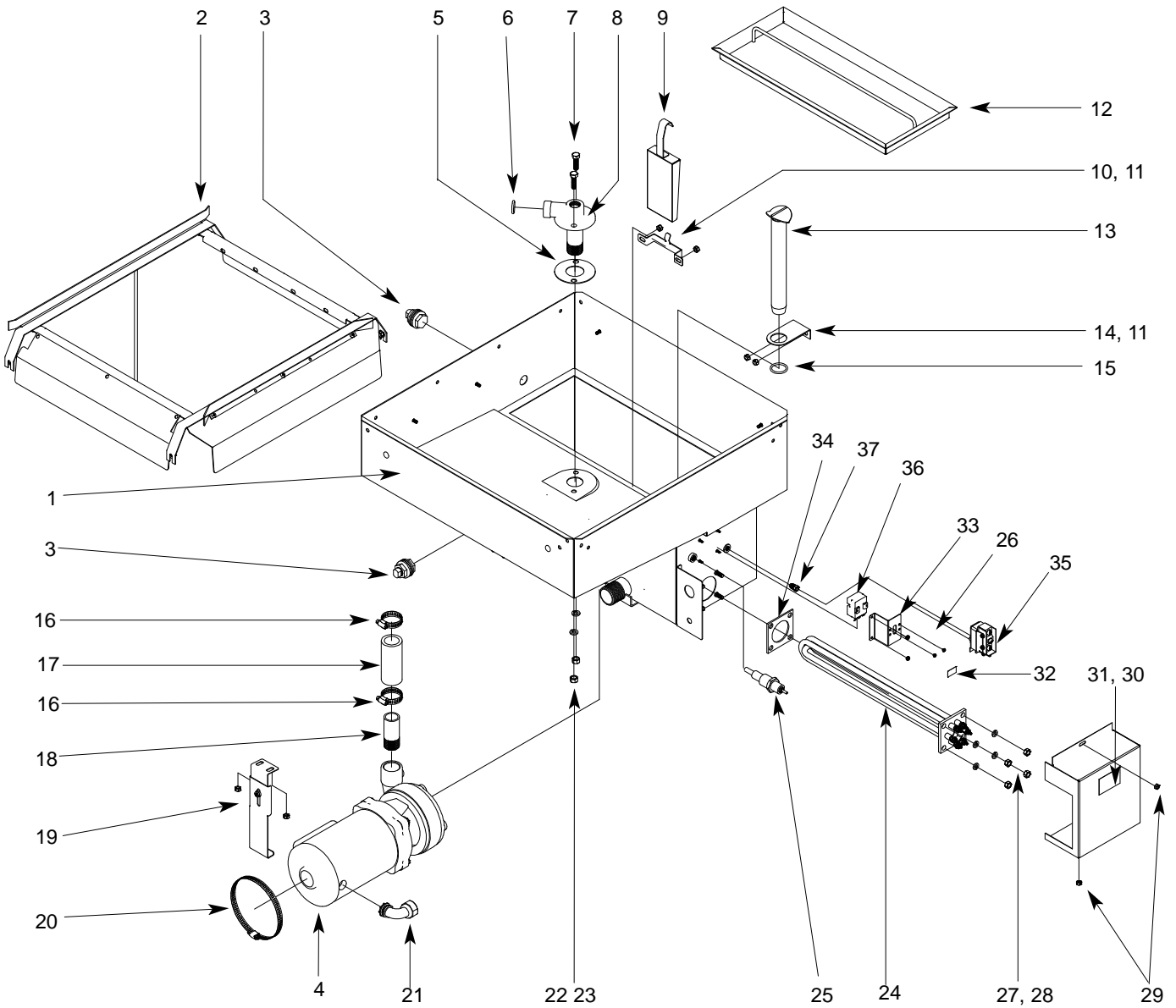


Bracket, Cantilever Arm Support  
09515-003-15-64

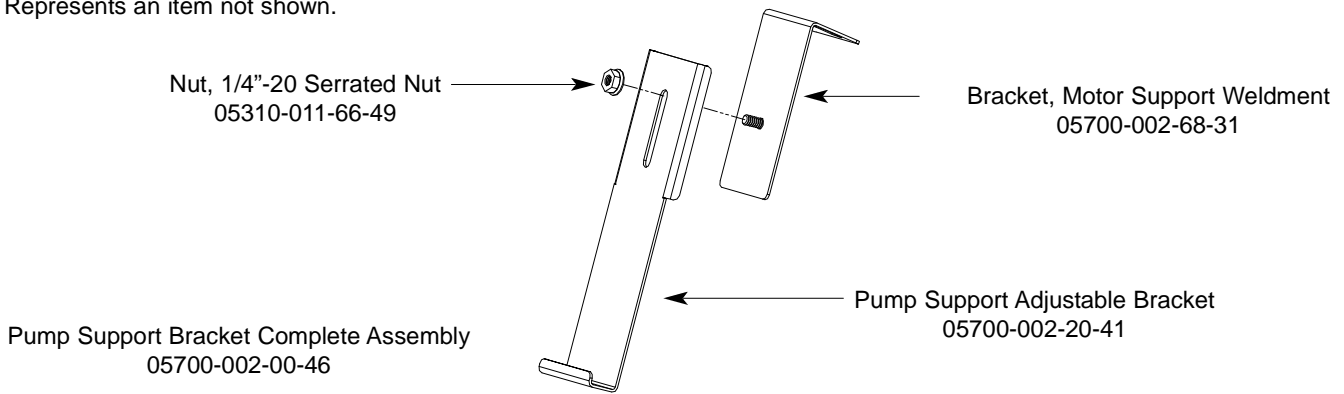
Wear Button, 1/2" Dia. UHMW  
05700-011-88-01

## SECTION 5: PARTS SECTION

### TUB ASSEMBLY



\* Represents an item not shown.



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**SECTION 5: PARTS SECTION****TUB ASSEMBLY (CONTINUED)**

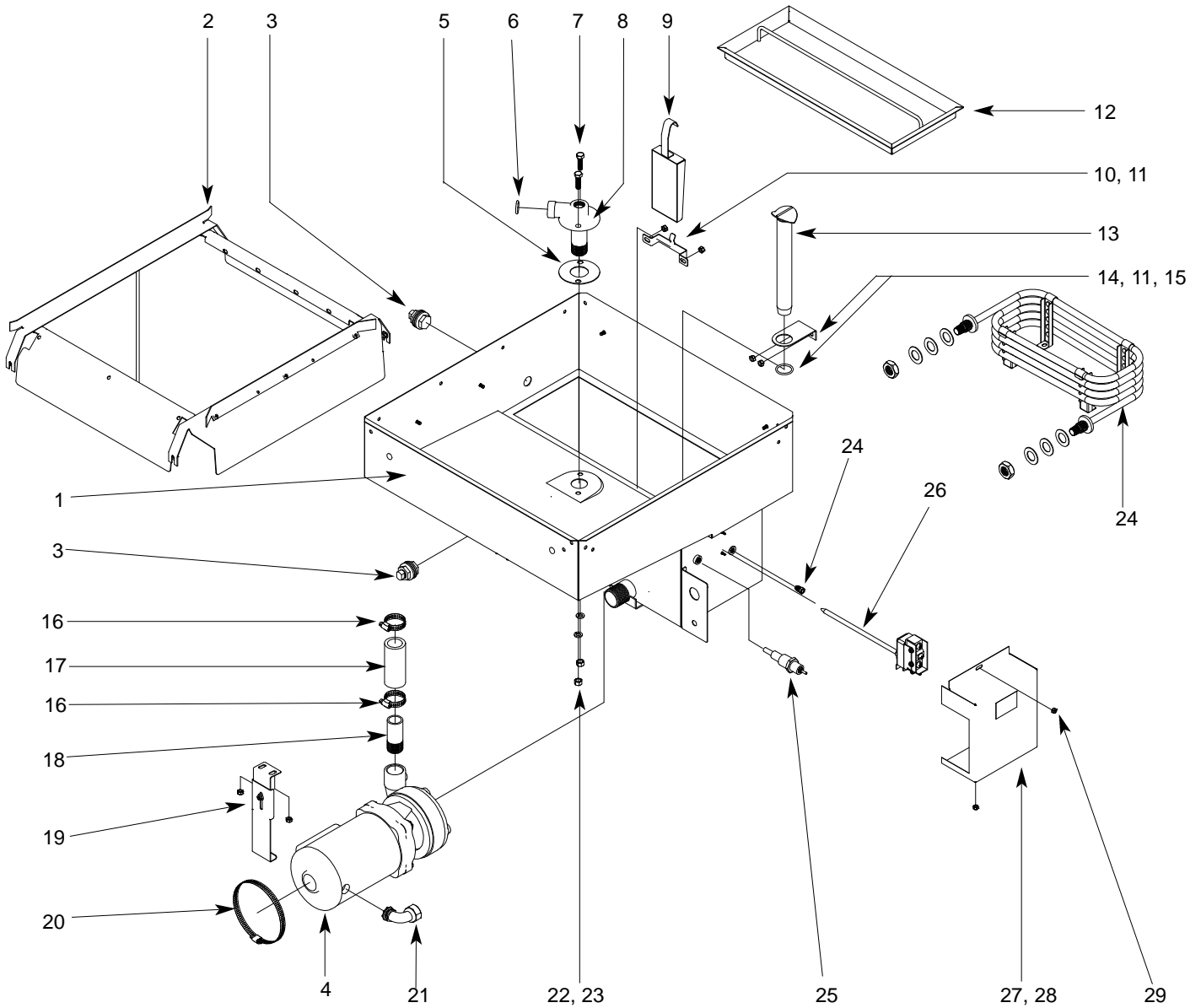
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<b>ITEM</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>Mfg. No.</b>
1	1	Tub Weldment	05700-002-12-59
2	1	Rack Assembly	05700-002-01-00
3	2	Bulk Head Plug	04730-609-05-00
4	1	See Page Entitled "Wash Motors"	N/A
5	1	Gasket	05700-111-35-03
6	1	O-ring	05330-400-05-00
7	4	Bolt, Hex 3/8"-16 x 1 1/4" Long	05305-276-10-00
8	1	Lower Wash Manifold Weldment	05700-031-46-00
9	1	Suction Strain Weldment	05700-001-22-23
10	1	Suction Strain Bracket	05700-001-22-24
11	8	Locknut, 1/4"-20 with Nylon Insert	05310-374-02-00
12	1	Strainer Weldment	05700-021-50-07
13	1	Wash Overflow Weldment	05700-001-25-69
*	1	Support, Ball Stop Lift	05700-002-91-55
*	1	Ball Stop Lift	05700-002-91-54
*	1	Shim, Overflow Support	05700-002-96-48
14	1	Overflow Support Bracket	05700-001-27-55
15	1	O-Ring	05330-400-05-00
16	2	Clamp, Hose 1 5/16" to 2 1/4"	04730-719-01-37
17	1	Discharge Hose	05700-011-88-24
18	1	Nipple	05700-021-34-84
19	1	Pump Support Bracket Assembly	05700-002-00-46
20	1	Clamp, Hose 5 5/8" to 6"	04730-011-34-90
21	1	Connector, 1/2" 90°	05975-111-01-00
22	4	Nut, 3/8"-16 S/S Hex	05310-276-01-00
23	4	Lockwasher 3/8"	05311-276-01-00
24	1	See Page Entitled "Wash Heaters/Rinse Heaters" See page 27 to order phase conversion kits for the heater.	N/A
25	1	Probe, High Water	06680-200-02-68
26	5	Locknut, 6-32 with Nylon Insert	05310-373-03-00
27	4	Lockwasher, 5/16", S/S, Split	05311-275-01-00
28	4	Nut, Hex, 5/16"-18, S/S	05310-275-01-00
29	4	Locknut, 10-24 with Nylon Insert	05310-373-01-00
30	1	Cover, Wash Heater	05700-031-47-57
31	1	Decal, Warning-Disconnect Power	09905-100-75-93
32	1	Decal, High Limit	09905-011-84-32
33	1	Thermostat Bracket	05700-011-81-64
34	1	Wash Heater Gasket	05330-011-47-79
35	1	Thermostat, Regulating	05930-510-02-79
	1	Kit, Wash Thermostat Replacement (Includes: thermostat, brass fitting, 2 jumper wires & instructions)	06401-003-18-22
36	1	Thermostat, High Limit	05930-011-49-43
37	1	Fitting, 1/4" Imperial Brass	05310-924-02-05

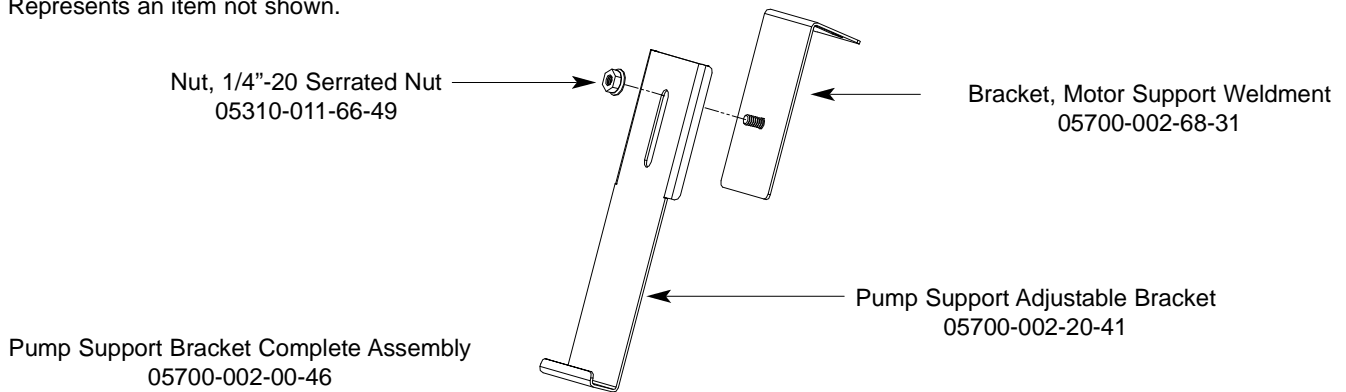


## SECTION 5: PARTS SECTION

### STEAM TUB ASSEMBLY



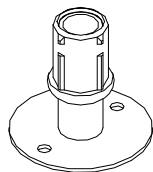
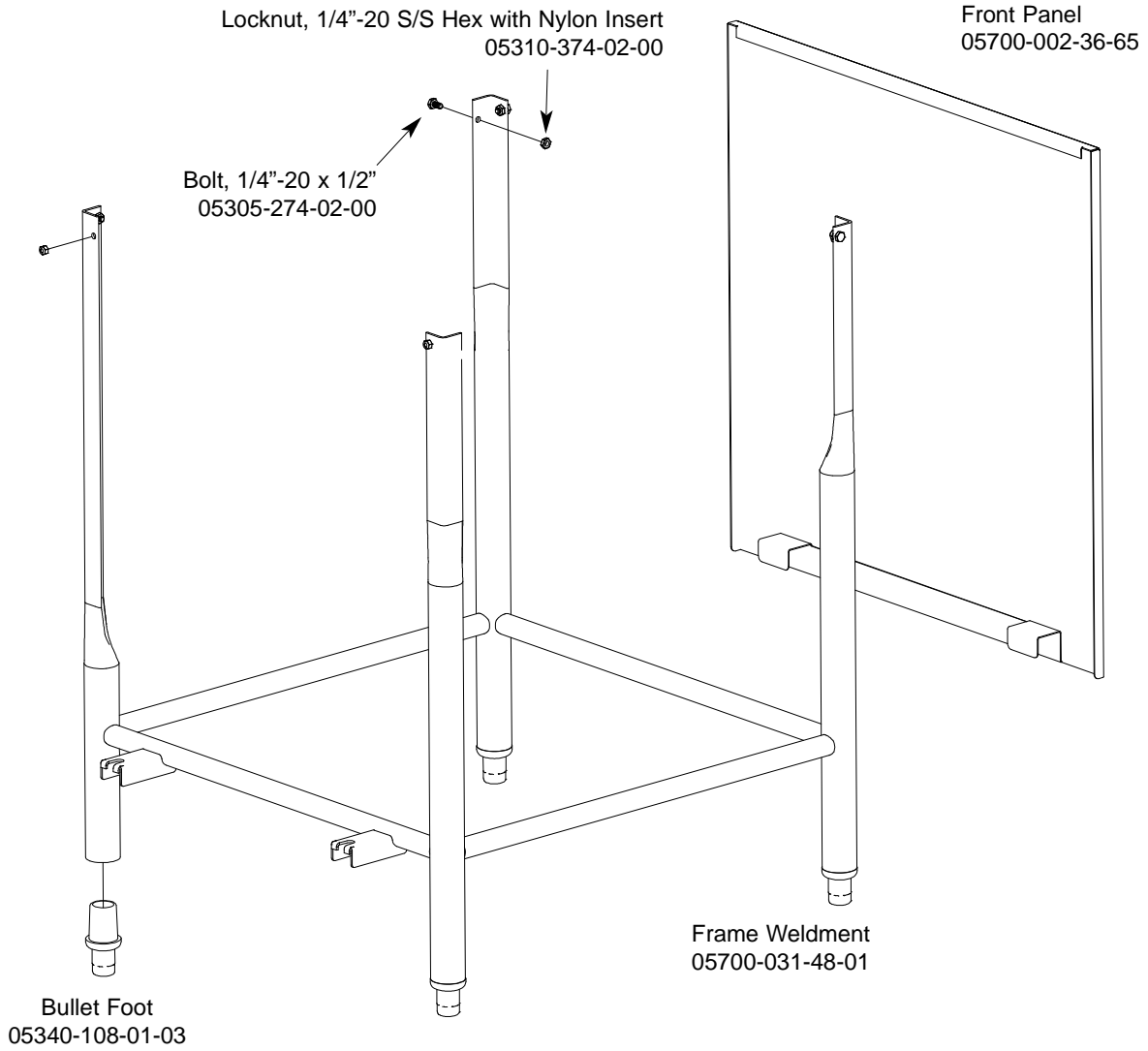
\* Represents an item not shown.



**SECTION 5: PARTS SECTION**  
**STEAM TUB ASSEMBLY (CONTINUED)**

<b>ITEM</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>Mfg. No.</b>
1	1	Tub Weldment	05700-002-09-26
2	1	Rack Assembly	05700-002-01-00
3	2	Bulk Head Plug	04730-609-05-00
4	1	See page entitled "Wash Motors"	N/A
5	1	Gasket	05700-111-35-03
6	1	O-ring	05330-400-05-00
7	4	Bolt, Hex 3/8"-16 x 1 1/4" Long	05305-276-10-00
8	1	Lower Wash Manifold Weldment	05700-031-46-00
9	1	Suction Strain Weldment	05700-001-22-23
10	1	Suction Strain Bracket	05700-001-22-24
11	8	Locknut, 1/4"-20 with Nylon Insert	05310-374-02-00
12	1	Strainer Weldment	05700-021-50-07
13	1	Wash Overflow Weldment	05700-001-25-69
*	1	Support, Ball Stop Lift	05700-002-91-55
*	1	Ball Stop Lift	05700-002-91-54
*	1	Shim, Overflow Support	05700-002-96-48
14	1	Overflow Support Bracket	05700-001-27-55
15	1	O-Ring	05330-400-05-00
16	2	Clamp, Hose 1 5/16" to 2 1/4"	04730-719-01-37
17	1	Discharge Hose	05700-011-88-24
18	1	Nipple	05700-021-34-84
19	1	Pump Support Bracket Assembly	05700-002-00-46
20	1	Clamp, Hose 5 5/8" to 6"	04730-011-34-90
21	1	Connector, 1/2" 90 Deg.	05975-111-01-00
22	4	Nut, 3/8"-16 S/S Hex	05310-276-01-00
23	4	Lockwasher 3/8"	05311-276-01-00
24	1	Fitting, 1/4" Imperial Brass	05310-924-02-05
25	1	Probe, High Water	06680-200-02-68
26	1	Thermostat, Regulating	05930-510-02-79
	1	Kit, Wash Thermostat Replacement (Includes: thermostat, brass fitting, 2 jumper wires & instructions)	06401-003-18-67
27	1	Cover, Wash Heater	05700-031-47-57
28	1	Decal, Warning-Disconnect Power	09905-100-75-93
29	2	Locknut, 10-24 with Nylon Insert	05310-373-01-00
30	3	Locknut, 6-32 with Nylon Insert	05310-373-03-00

**SECTION 5: PARTS SECTION**  
**FRAME ASSEMBLY**

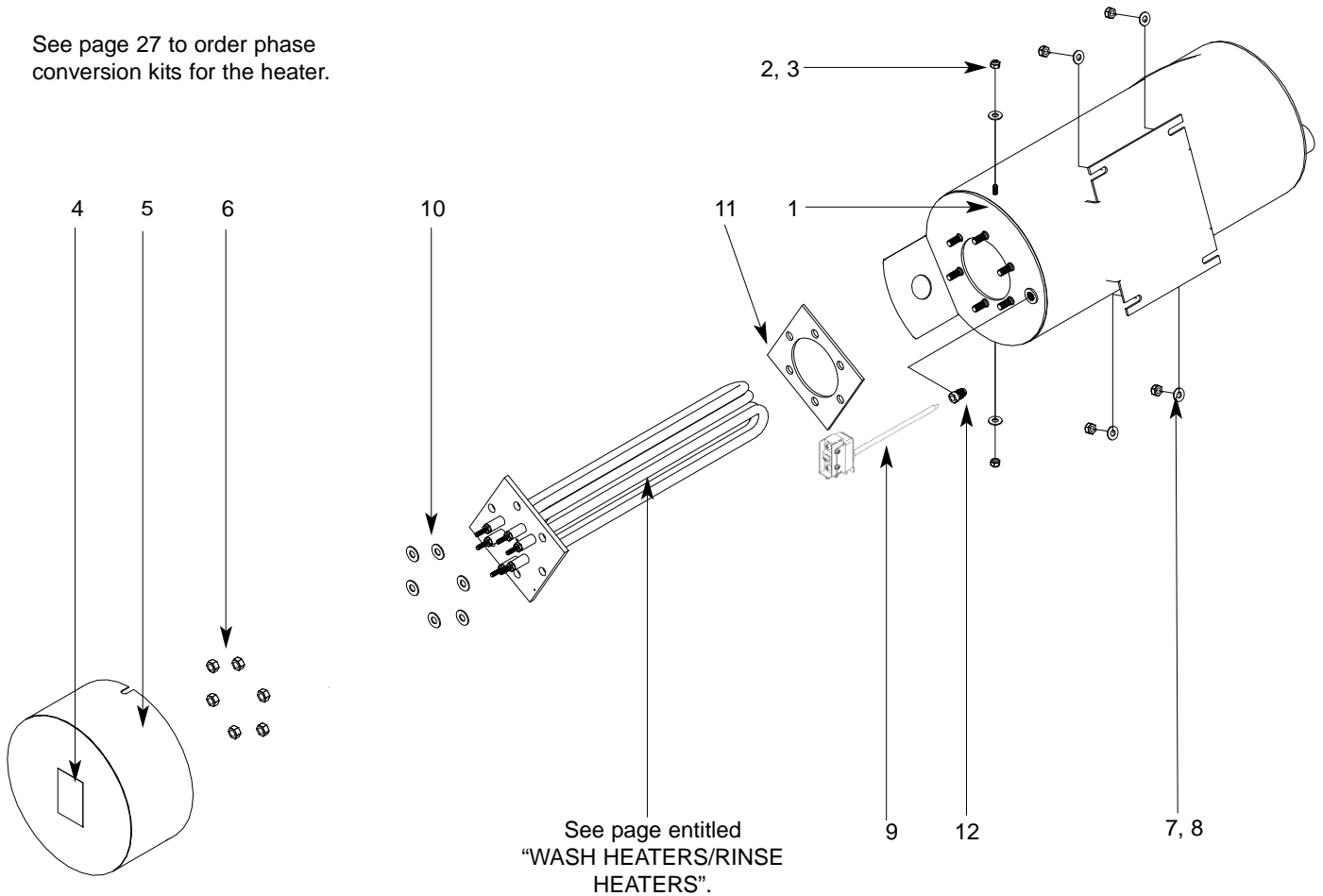


Flanged Bullet Foot  
05340-002-34-86

## SECTION 5: PARTS SECTION

### RINSE TANK ASSEMBLY

See page 27 to order phase conversion kits for the heater.

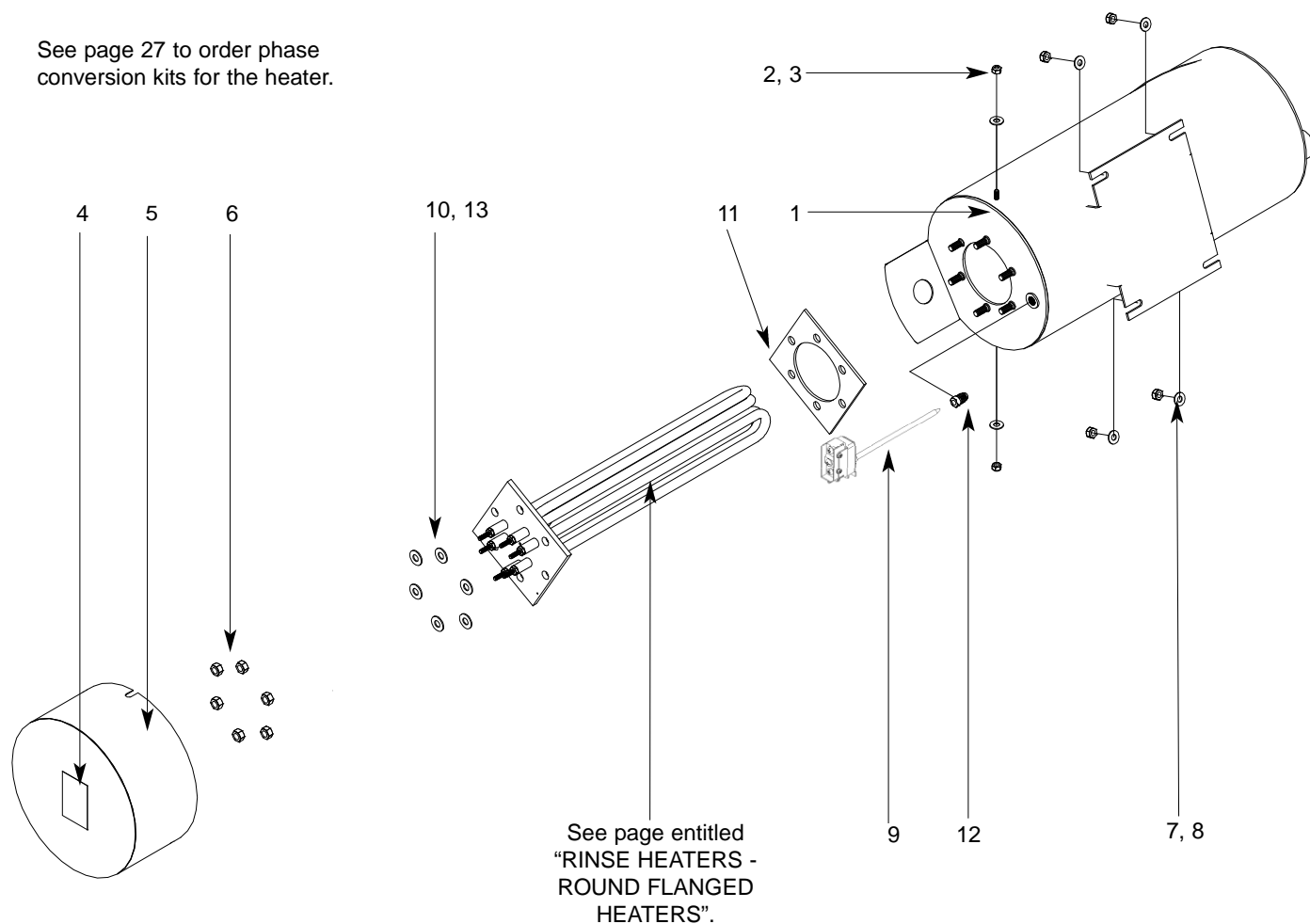


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Booster Tank Weldment	05700-001-22-02
2	2	Locknut, 10-24 with Nylon Insert	05310-373-01-00
3	2	Washer, #10 S/S Flat	05311-173-01-00
4	1	Decal, Warning - Disconnect Power	09905-100-75-93
5	1	Booster Tank Cover Weldment	05700-001-29-30
6	6	Nut, Hex, 5/16"-18	05310-275-01-00
7	4	Locknut, 1/4"-20 with Nylon Insert	05310-374-01-00
8	4	Washer, 1/4" ID, S/S, Flat	05311-174-01-00
9	1	Thermostat, Rinse	05930-510-03-79
	1	Kit, Rinse Thermostat Replacement (Includes: thermostat, brass fitting, 2 jumper wires & instructions)	06401-011-66-55
10	6	Washer, 5/16" I.D.	05311-175-01-00
11	1	Gasket, Rinse Heater	05330-200-02-70
12	1	Fitting, 1/4" Imperial Brass	05310-924-02-05

## SECTION 5: PARTS SECTION

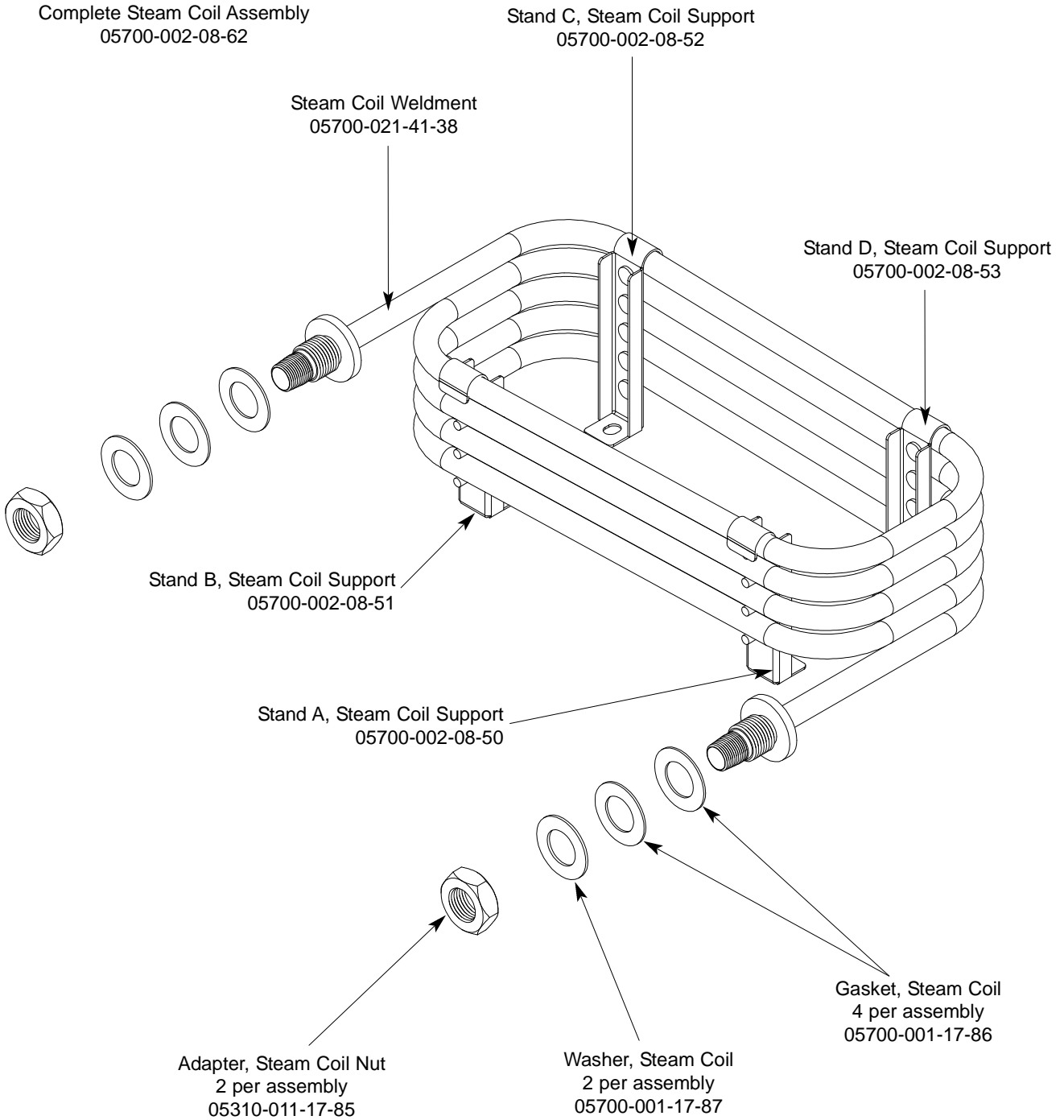
### RINSE TANK AND ROUND FLANGE HEATER ASSEMBLY

See page 27 to order phase conversion kits for the heater.



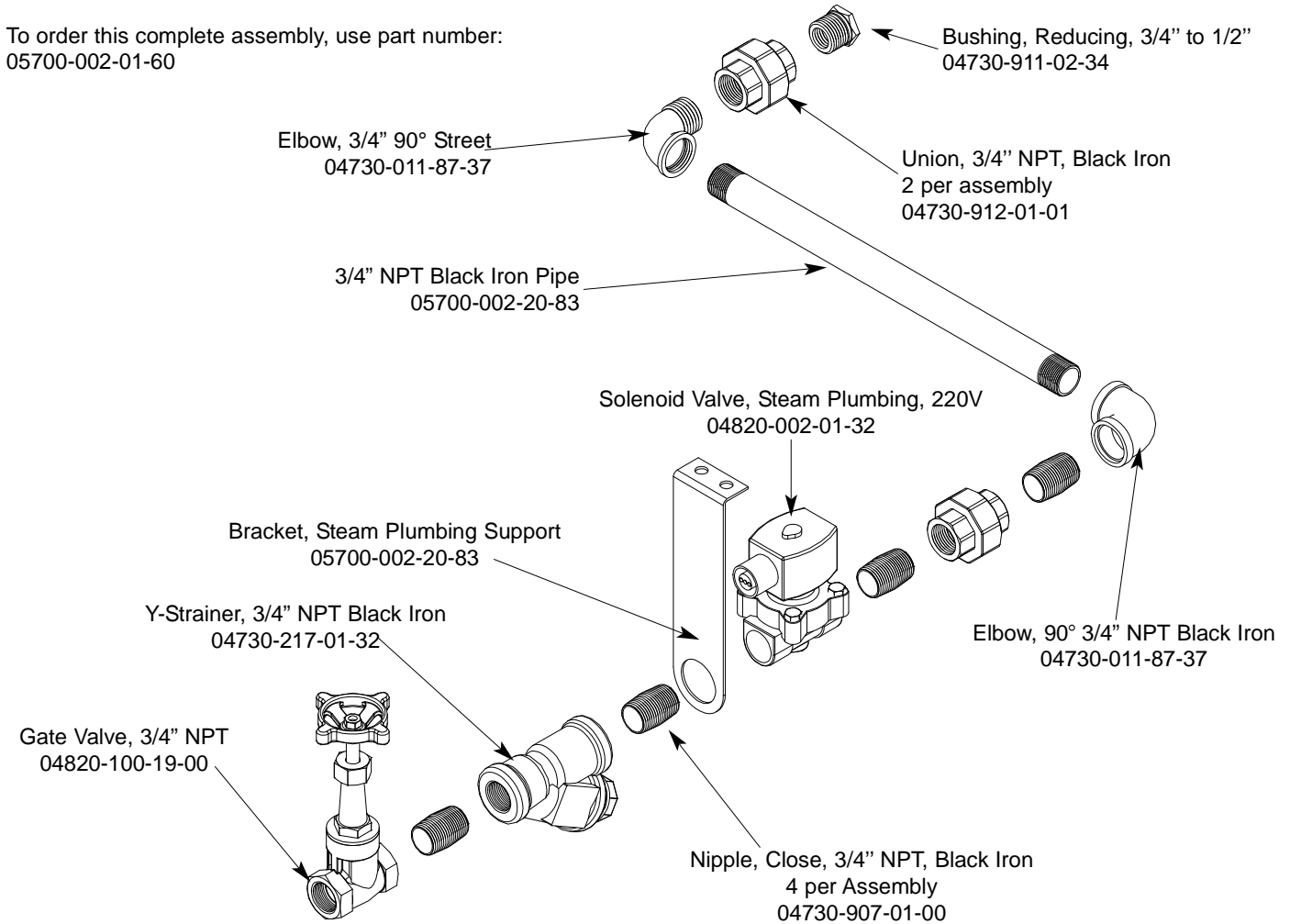
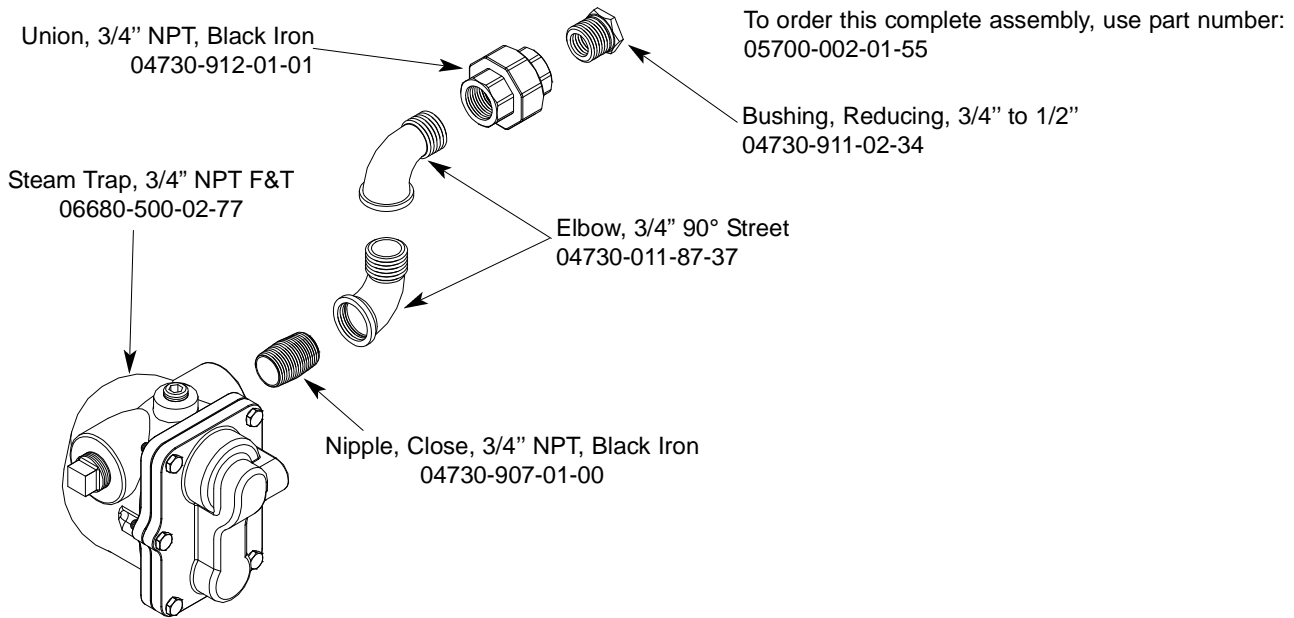
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Booster Tank Weldment	05700-003-58-41
2	2	Locknut, 1/4-20 with Nylon Insert	05310-374-01-00
3	2	Washer, 1/4" S/S Flat	05311-174-01-00
4	1	Decal, Warning - Disconnect Power	09905-100-75-93
5	1	Booster Tank Cover Weldment	05700-001-29-30
6	8	Nut, Hex, 1/4-20"-18	05310-274-01-00
7	4	Locknut, 1/4"-20 with Nylon Insert	05310-374-01-00
8	4	Washer, 1/4" ID, S/S, Flat	05311-174-01-00
9	1	Thermostat, Rinse	05930-510-03-79
	1	Kit, Rinse Thermostat Replacement (Includes: thermostat, brass fitting, 2 jumper wires & instructions)	06401-011-66-55
10	8	Washer, 1/4" I.D.	05311-174-01-00
11	1	Gasket, Rinse Heater	05330-200-02-70
12	1	Fitting, 1/4" Imperial Brass	05310-924-02-05
13	8	Washer, 1/4" Split Lock	05311-274-01-00

**SECTION 5: PARTS SECTION**  
**COIL ASSEMBLY**



## SECTION 5: PARTS SECTION

### INCOMING STEAM PLUMBING ASSEMBLIES



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## SECTION 5: PARTS SECTION

### WASH MOTORS

The Tempstar models covered in this manual come supplied with various wash motor assemblies (a wash motor assembly includes the wash motor and the pump end), depending on the characteristics of the machine. To ensure that you order the correct wash motor assembly for the model you are servicing, please refer to the following table:

<u>Model</u>	<u>Volts</u>	<u>Hz</u>	<u>Phase</u>	<u>Wash Motor Assembly</u>
Tempstar/Tempstar NB	208	50	1	06105-002-19-87
Tempstar/Tempstar NB	208	50	3	06105-002-19-87
Tempstar/Tempstar NB	208	60	1	06105-002-69-78
Tempstar/Tempstar NB	208	60	3	06105-002-69-78
Tempstar/Tempstar NB	230	50	1	06105-002-19-87
Tempstar/Tempstar NB	230	50	3	06105-002-19-87
Tempstar/Tempstar NB	230	60	1	06105-002-69-78
Tempstar/Tempstar NB	230	60	3	06105-002-69-78
Tempstar/Tempstar NB	380	50	3	06105-002-41-24
Tempstar/Tempstar NB	415	50	3	06105-002-41-24
Tempstar/Tempstar NB	440	50	3	06105-002-41-24
Tempstar/Tempstar NB	460	60	3	06105-121-64-21
Tempstar LT	208	50	1	06105-002-19-87
Tempstar LT	208	50	3	06105-002-19-87
Tempstar LT	208	60	1	06105-002-69-78
Tempstar LT	208	60	3	06105-002-69-78
Tempstar LT	230	50	1	06105-002-19-87
Tempstar LT	230	50	3	06105-002-19-87
Tempstar LT	230	60	1	06105-002-69-78
Tempstar LT	230	60	3	06105-002-69-78
Tempstar LT	380	50	3	06105-002-41-24
Tempstar LT	415	50	3	06105-002-41-24
Tempstar LT	440	50	3	06105-002-41-24
Tempstar LT	460	60	3	06105-121-64-21
Tempstar S	208	60	1	06105-002-69-78
Tempstar S	208	60	3	06105-002-69-78
Tempstar S	230	60	1	06105-002-69-78
Tempstar S	230	60	3	06105-002-69-78

**Important note:** When servicing a wash motor, it is important to refer to the wiring schematic found on the motor, to ensure that the motor is wired correctly. Different manufacturers of motors may not use the same wire color codes and therefore, your new motor, which may have been built by someone different than who built your original motor, may not connect using the same wires. Always refer to the wiring diagrams on the motor you are installing. If the motor you are installing has had the schematic removed, contact Jackson MSC immediately for technical support.



**SECTION 5: PARTS SECTION**  
**MOTOR & PUMP ASSEMBLY**

Complete Pump & Motor Assembly, 60HZ  
06105-002-69-78

Complete Pump & Motor Assembly, 50HZ  
06105-002-19-87

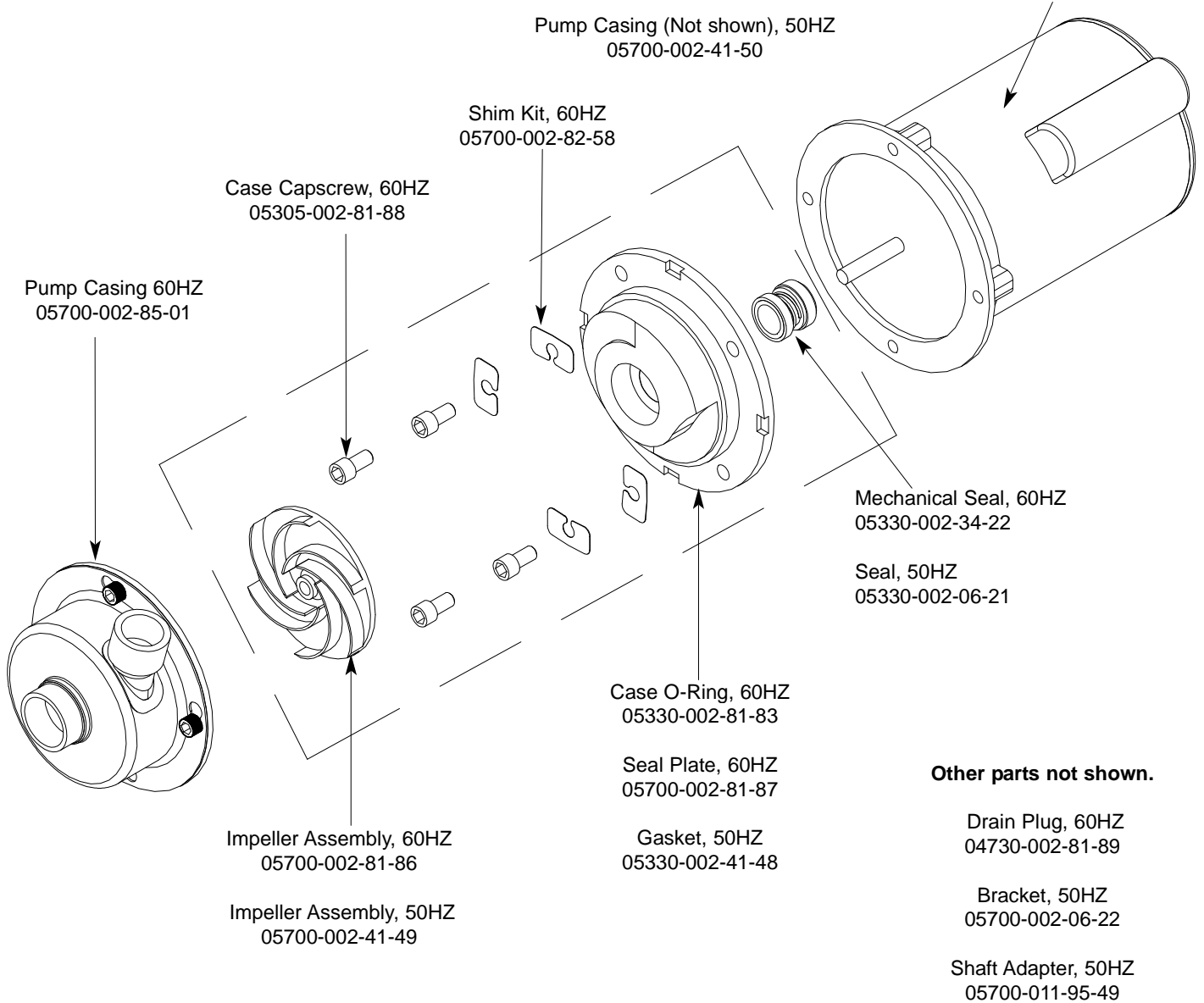
Motor Only, 60HZ  
06105-002-79-61

Pump Only Assembly, 60HZ  
(Area indicated within box, Casing is included)  
05700-002-79-51

Pump Only Assembly, 50HZ  
(Area indicated within box, Casing is included)  
05700-002-85-38

Motor Only, 50HZ  
06105-002-85-36

Pump Casing (Not shown), 50HZ  
05700-002-41-50



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## SECTION 5: PARTS SECTION

### WASH HEATERS/RINSE HEATERS

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The Tempstar 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:

<u>Model</u>	<u>Volts</u>	<u>Hz</u>	<u>Phase</u>	<u>Wash Heater</u>	<u>Rinse Heater (12 KW)</u>	<u>Rinse Heater (14 KW)</u>
Tempstar	208	50	1	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	208	50	3	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	208	60	1	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	208	60	3	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	230	50	1	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	230	50	3	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	230	60	1	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	230	60	3	04540-121-47-39	04540-121-47-40	04540-121-63-38
Tempstar	380	50	3	04540-002-44-31	04540-002-44-32	04540-121-63-38
Tempstar	415	50	3	04540-002-43-09	04540-002-43-10	04540-002-77-24
Tempstar	440	50	3	04540-121-65-99	04540-100-01-15	04540-121-63-39
Tempstar	460	60	3	04540-121-65-99	04540-100-01-15	04540-121-63-39
Tempstar LT	208	50	1	04540-121-47-39		
Tempstar LT	208	50	3	04540-121-47-39		
Tempstar LT	208	60	1	04540-121-47-39		
Tempstar LT	208	60	3	04540-121-47-39		
Tempstar LT	230	50	1	04540-121-47-39		
Tempstar LT	230	50	3	04540-121-47-39		
Tempstar LT	230	60	1	04540-121-47-39		
Tempstar LT	230	60	3	04540-121-47-39		
Tempstar LT	380	50	3	04540-002-44-31		
Tempstar LT	440	50	3	04540-121-65-99		
Tempstar LT	460	60	3	04540-121-65-99		
Tempstar NB	208	50	1	04540-121-47-39		
Tempstar NB	208	50	3	04540-121-47-39		
Tempstar NB	208	60	1	04540-121-47-39		
Tempstar NB	208	60	3	04540-121-47-39		
Tempstar NB	230	50	1	04540-121-47-39		
Tempstar NB	230	50	3	04540-121-47-39		
Tempstar NB	230	60	1	04540-121-47-39		
Tempstar NB	230	60	3	04540-121-47-39		
Tempstar NB	380	50	3	04540-002-44-31		
Tempstar NB	415	50	3	04540-002-43-09		
Tempstar NB	440	50	3	04540-121-65-99		
Tempstar NB	460	60	3	04540-121-65-99		

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## SECTION 5: PARTS SECTION

### RINSE HEATERS - ROUND FLANGED HEATER

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The Tempstar 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:

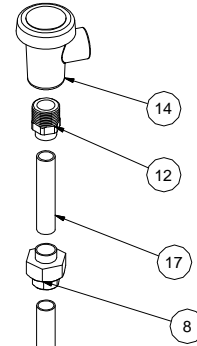
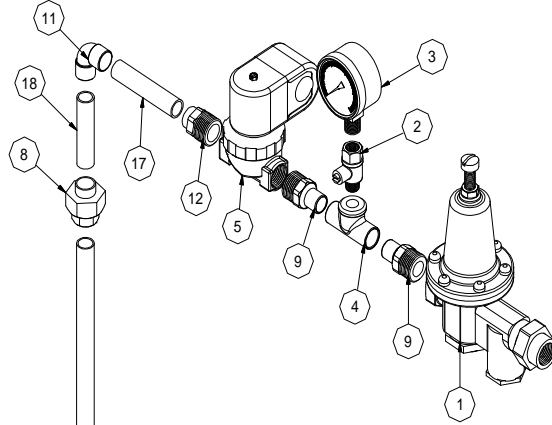
<u>Model</u>	<u>Volts</u>	<u>Hz</u>	<u>Phase</u>	<u>Rinse Heater (12 KW)</u>	<u>Rinse Heater (14 KW)</u>
Tempstar	208	50	1	04540-003-58-27	04540-003-58-28
Tempstar	208	50	3	04540-003-58-27	04540-003-58-28
Tempstar	208	60	1	04540-003-58-27	04540-003-58-28
Tempstar	208	60	3	04540-003-58-27	04540-003-58-28
Tempstar	230	50	1	04540-003-58-27	04540-003-58-28
Tempstar	230	50	3	04540-003-58-27	04540-003-58-28
Tempstar	230	60	1	04540-003-58-27	04540-003-58-28
Tempstar	230	60	3	04540-003-58-27	04540-003-58-28

## SECTION 5: PARTS SECTION

### TEMPSTAR INCOMING PLUMBING/OUTLET PLUMBING ASSEMBLY

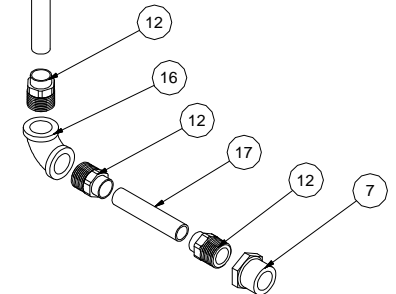
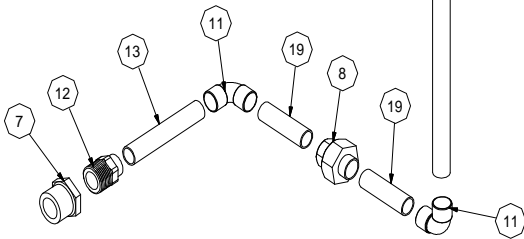
**TEMPSTAR INCOMING PLUMBING**  
(Complete Assembly) 05700-003-60-74

**TEMPSTAR  
OUTLET PLUMBING**  
(Complete assembly)  
05700-003-60-75



**Tube Length Chart**

<b>Item #</b>	<b>Length (Inches)</b>
10	1/2" x 37" Long
13	1/2" x 3 1/2" Long
15	1/2" x 30 3/4" Long
17	1/2" x 3" Long
18	1/2" x 2 1/2" Long
19	1/2" X 2 1/8" Long



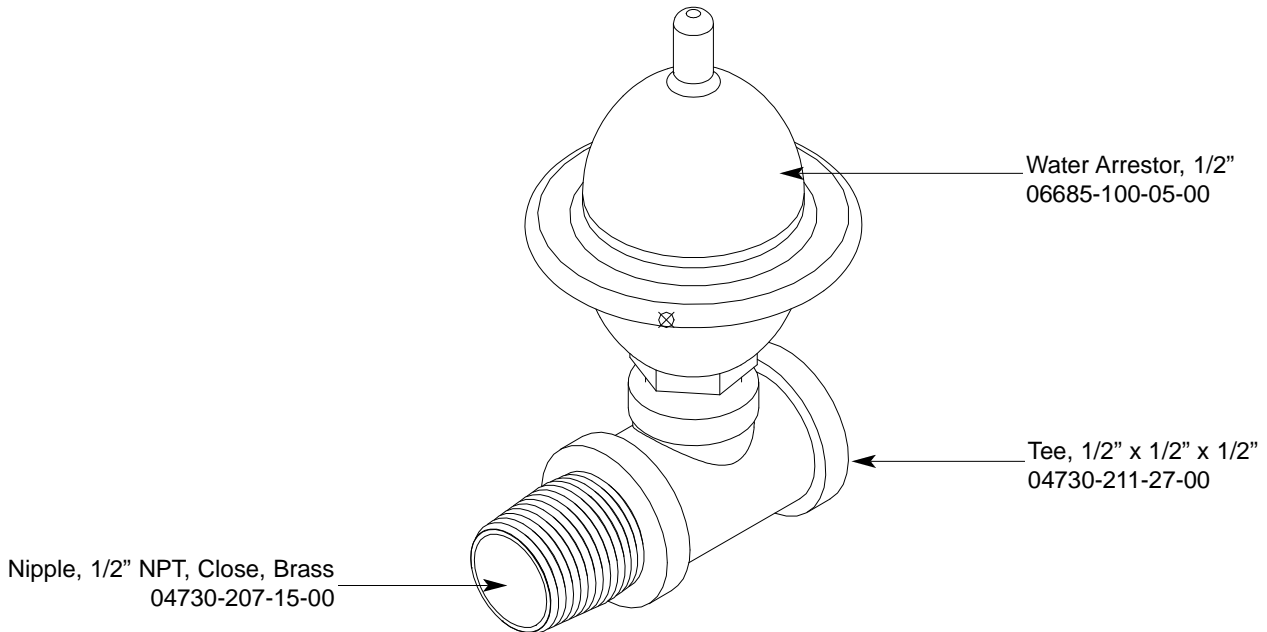
## SECTION 5: PARTS SECTION

### TEMPSTAR INCOMING PLUMBING/OUTLET PLUMBING ASSEMBLY/WPRK KIT OPTION

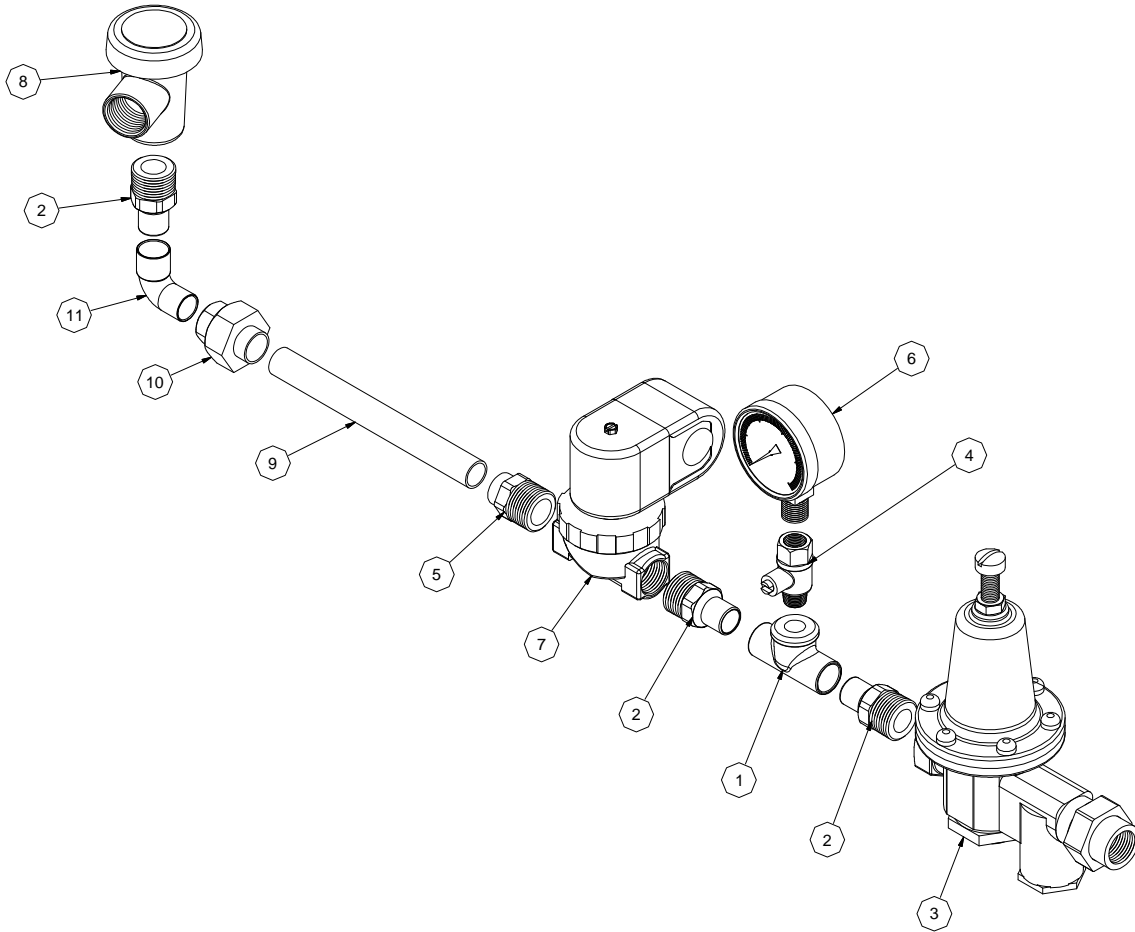
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Water Pressure Regulator, 1/2" NPT	05700-100-04-07
2	1	Valve, Ball, 1/4" NPT	04810-011-72-67
3	1	Gauge, Pressure, 0-100 PSI	06685-111-88-34
4	1	Tee, Brass, 1/2" NPT x 1/2" x 1/4"	04730-411-25-01
5	1	Valve, Solenoid, 1/2" NPT	04730-100-09-18
6	2	Bracket, Booster Plumbing 1/2" (Not Shown)	05700-003-60-90
7	2	Bushing, HEX 3/4 MNPT-1/2 FNPT Brass	04730-002-56-27
8	3	Union, 1/2"	04730-406-01-01
9	2	Adapter, 1/2" MNPT x CU Male	04730-011-59-53
10	1	Tube, Copper	See Chart
11	3	Elbow, 1/2" CU x CU, 90°	04730-406-01-01
12	6	Adapter, 1/2"	04730-401-03-01
13	1	Tube, Copper	See Chart
14	1	Vacuum Breaker, 1/2" NPT	04820-003-06-13
15	1	Tube, Copper	See Chart
16	1	Elbow, 1/2" NPT, 90°, Brass	04730-011-42-96
17	3	Tube, Copper	See Chart
18	1	Tube, Copper	See Chart
19	2	Tube, Copper	See Chart

When servicing plumbing components, take care not to damage the threads of each individual item. Damaged threads can cause leaks and loss of pressure, which could adversely effect the performance of the Tempstar dishwasher. It is strongly recommended that teflon thread tape, used in conservative amounts, be applied to threads when joining components together. It is not advised to use thread sealing compounds, sometimes referred to as "pipe dope". Compounds can be ejected from the threads during the tightening process and become lodged in key components, thereby rendering them useless. Some of the components include the solenoid valve and the pressure gauge isolation ball valve.

#### WPRK KIT OPTION



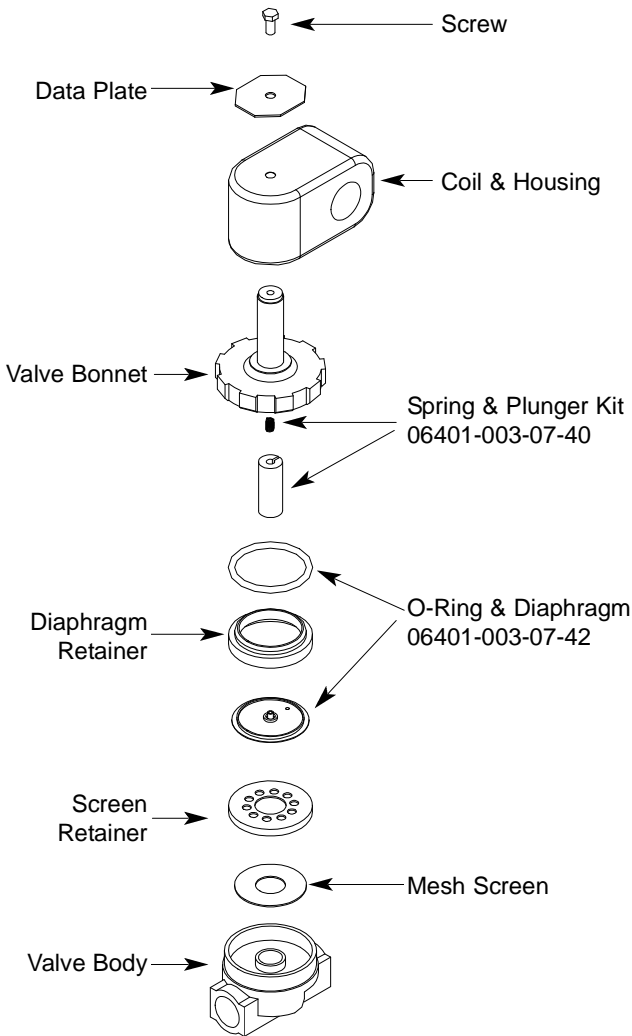
**SECTION 5: PARTS SECTION**  
**TEMPSTAR LT & TEMPSTAR NB INCOMING PLUMBING ASSEMBLY**  
 (Complete Assembly) 05700-003-60-73



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Tee, Brass, 1/2" x 1/2" x 1/4" NPT	04730-411-25-01
2	3	Adapter, 1/2" MNPT x Cu Male	04730-011-59-53
3	1	Water Pressure Regulator, 1/2" NPT	04820-100-04-07
4	1	Valve, Ball, Bronze, 1/4" NPT	04810-011-72-67
5	1	Adapter, 1/2" Male/Cu to MSPS	04730-401-03-01
6	1	Pressure Gauge, 0-100 PSI	06685-111-59-66
7	1	Valve, Solenoid, 1/2" NPT 208-240V	04810-100-09-18
8	1	Vacuum Breaker, 1/2" NPT	04820-003-06-13
9	1	Tube, Copper 1/2" x 5.75	05700-002-91-03
10	1	Union, 1/2"	04730-412-05-01
11	1	Elbow, 1/2" 90° Cu to MSPS	04730-406-32-01

## SECTION 5: PARTS SECTION

### 1/2" SOLENOID VALVE & 1/2" NPT VACUUM BREAKER REPAIR PARTS KITS



**Complete 110 Volt Solenoid Valve Assembly, 1/2"**

04810-100-12-18

**Coil & Housing only**

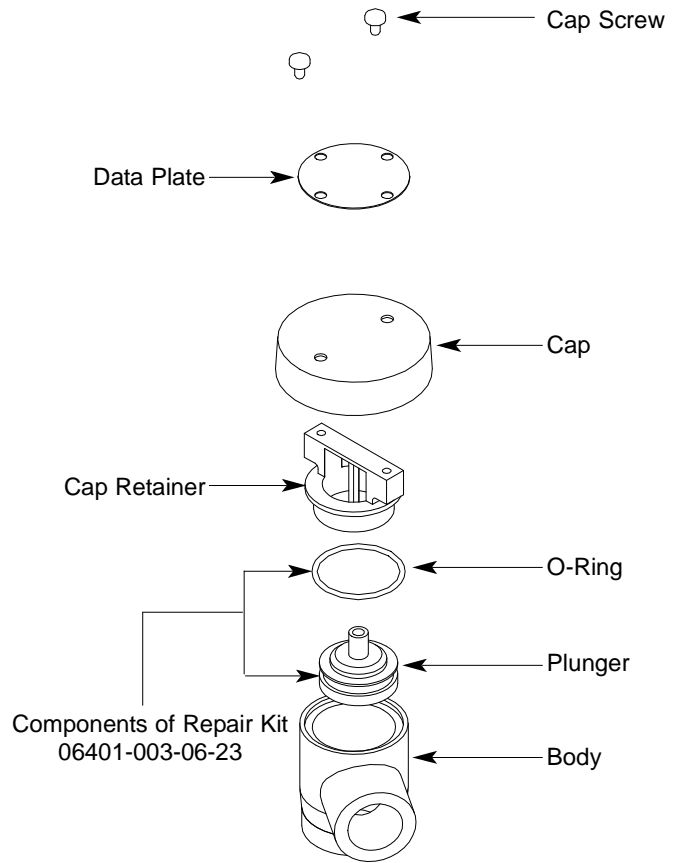
06401-003-07-43

**Complete 240 Volt Solenoid Valve Assembly, 1/2"**

04810-100-09-18

**Coil & Housing only**

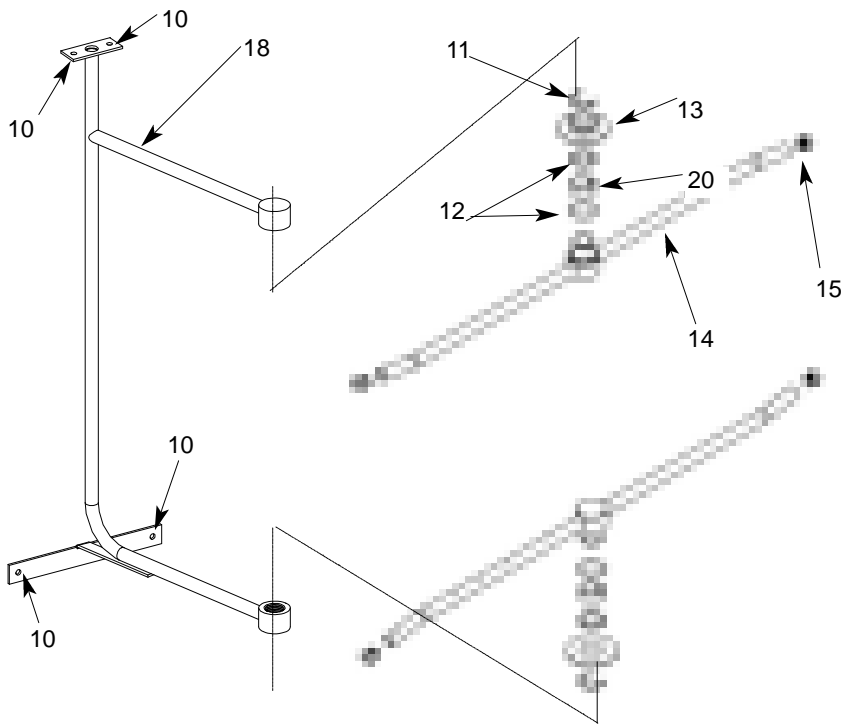
06401-003-07-44



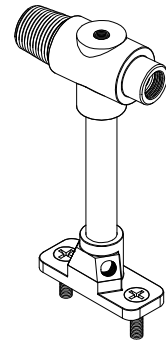
**Complete Vacuum Breaker Assembly, 1/2" NPT**

04820-003-06-13

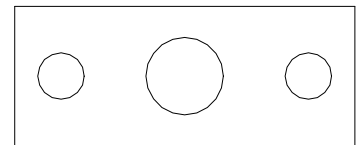
**SECTION 5: PARTS SECTION**  
**WASH & RINSE ARM/MANIFOLD ASSEMBLIES**



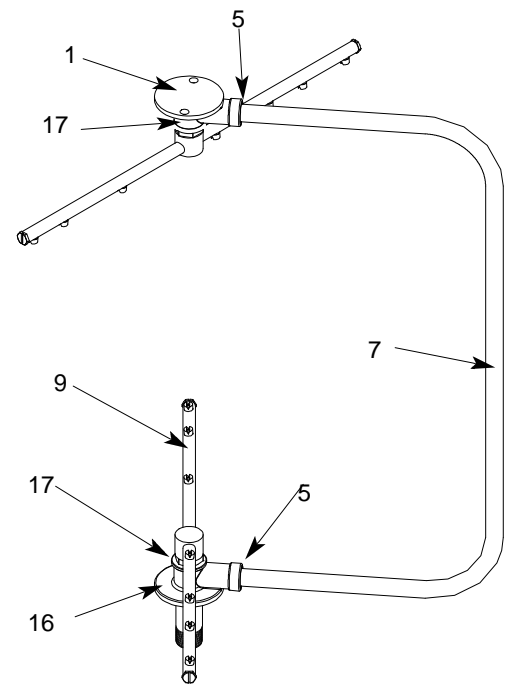
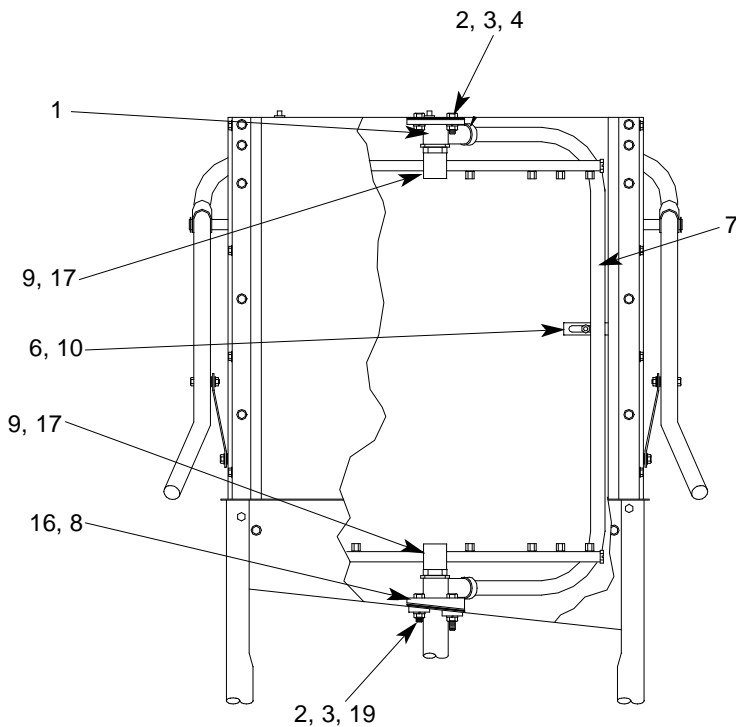
**DETAIL "A"**  
**FINAL RINSE ARMS & MANIFOLD**



Rinse Injector Weldment  
 1 per machine  
 05700-002-56-75  
 Plug, 1/8" NPT, Brass  
 3 per Rinse Injector  
 04730-209-07-37



Rinse Injector Gasket  
 2 per machine  
 05330-111-42-81



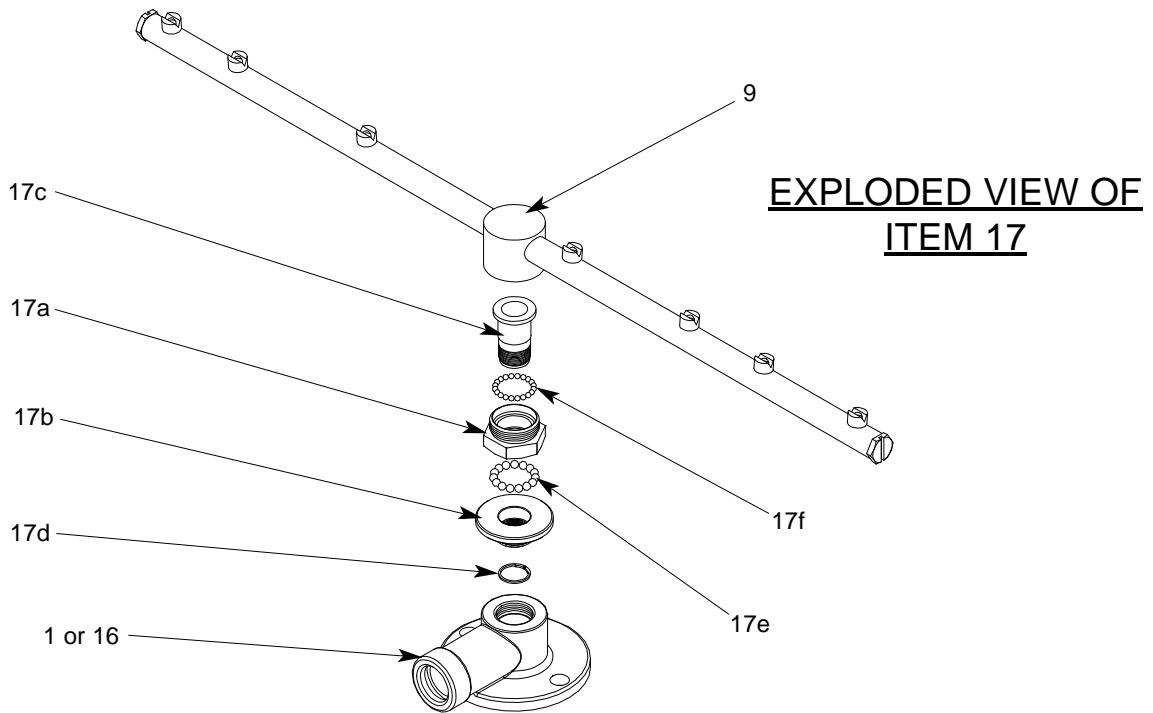
**DETAIL "B"**  
**WASH ARMS & MANIFOLD**



## SECTION 5: PARTS SECTION

### WASH & RINSE ARM/MANIFOLD ASSEMBLIES (CONTINUED)

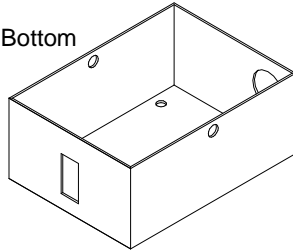
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Upper Manifold	05700-031-34-82
2	4	Nut, 3/8"-16 S/S Hex	05310-276-01-00
3	4	Lockwasher, 3/8	05311-276-01-00
4	2	Bolt, Hex 3/8"-16 x 7/8" Long	05306-011-36-95
5	2	O Ring	05330-111-35-15
6	1	Positioning Bracket, Manifold Tube	05700-011-34-63
7	1	Tube, Wash Manifold	05700-131-15-07
8	2	Gasket, Manifold	05700-111-35-03
9	2	Wash Arm	05700-021-35-93
10	5	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
11	2	Clip, Retaining, Rinse Head Bushing	05340-112-01-11
12	4	Rinse Arm Washer	05330-011-42-10
13	2	Bushing, Rinse Head	05700-021-33-84
14	2	Rinse Arm	05700-003-58-94
15	4	Plug, Rinse Arm	04730-609-04-00
16	1	Lower Wash Manifold	05700-031-46-00
17	2	Bearing Assembly	05700-021-35-97
17a	1	Hub Nut	05700-011-35-94
17b	1	Hub Bushing	05700-011-35-96
17c	1	Hub Spindle	05700-011-35-95
17d	1	Ring, Retainer	05340-011-37-81
17e	15	3/16" Stainless Steel Ball	03120-100-02-00
17f	20	1/8" Stainless Steel Ball	03120-011-37-82
18	1	Rinse Manifold Assembly	05700-021-47-61
19	2	Bolt, Hex 3/8"-16 x 1 1/4" Long	05305-276-10-00
20	2	Bearing, Rinse Head	03120-002-72-24



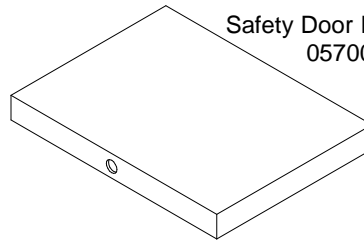
## SECTION 5: PARTS SECTION

### SAFETY DOOR INTERLOCK (SDI) /EXHAUST FAN CONTROL/TRANSFORMER MOUNTING BOX

Safety Door Interlock Box Bottom  
05700-001-21-26



Safety Door Interlock Box Cover  
05700-001-21-27

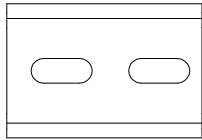
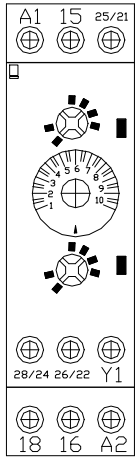


**Other Safety Door Interlock (SDI) components (not shown):**  
**DESCRIPTION**

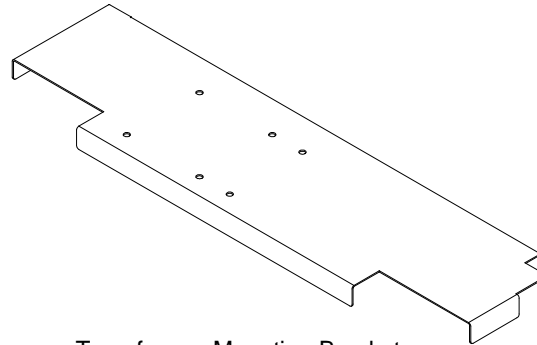
Pipe Clamp (found on the side of the machine)  
Solenoid, Electrical Interlock Option  
Relay

**Mfg. No.**

05700-000-35-05  
04810-100-61-33  
05945-111-47-51

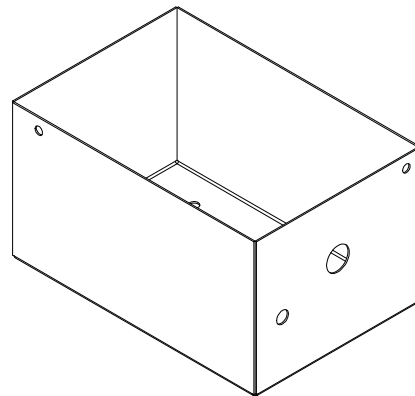


Exhaust Fan Control  
2" Din Rail  
05700-002-36-09

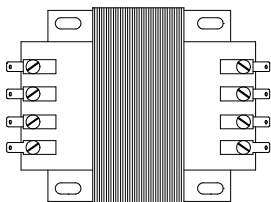


Transformer Mounting Bracket  
05700-031-62-82

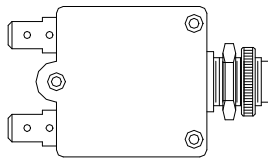
Exhaust Fan Control  
Delay Timer  
05945-011-65-44



Transformer Mounting Box  
05700-002-10-01



415/440/460V  
Transformer  
05950-111-65-93



2 Amp Circuit Breaker  
05925-111-64-18

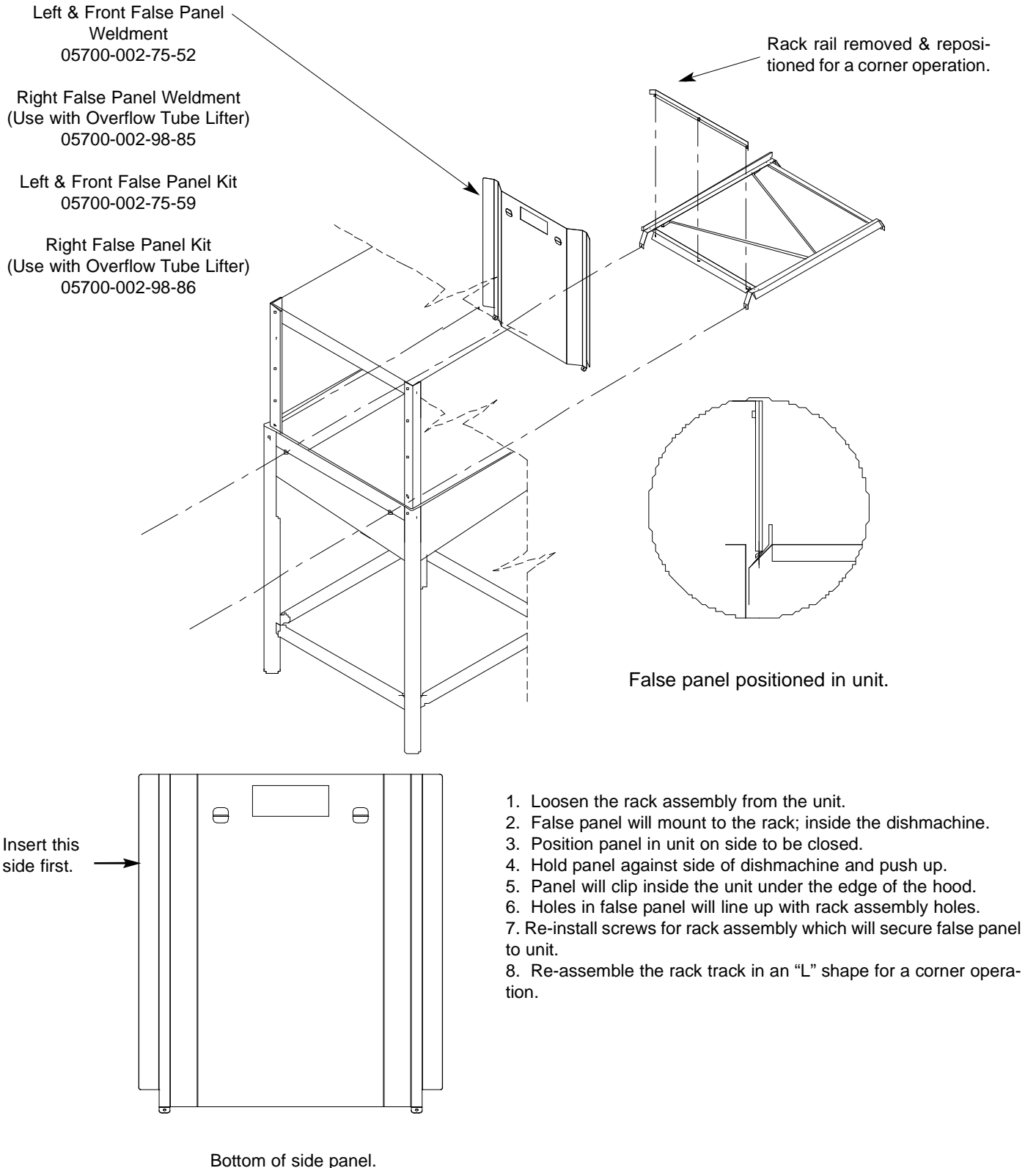


Transformer Mounting Box Top  
(not shown)  
05700-000-78-53

380V Transformer  
05950-111-64-17

## SECTION 5: PARTS SECTION

### FALSE PANEL INSTALLATION



## SECTION 5: PARTS SECTION

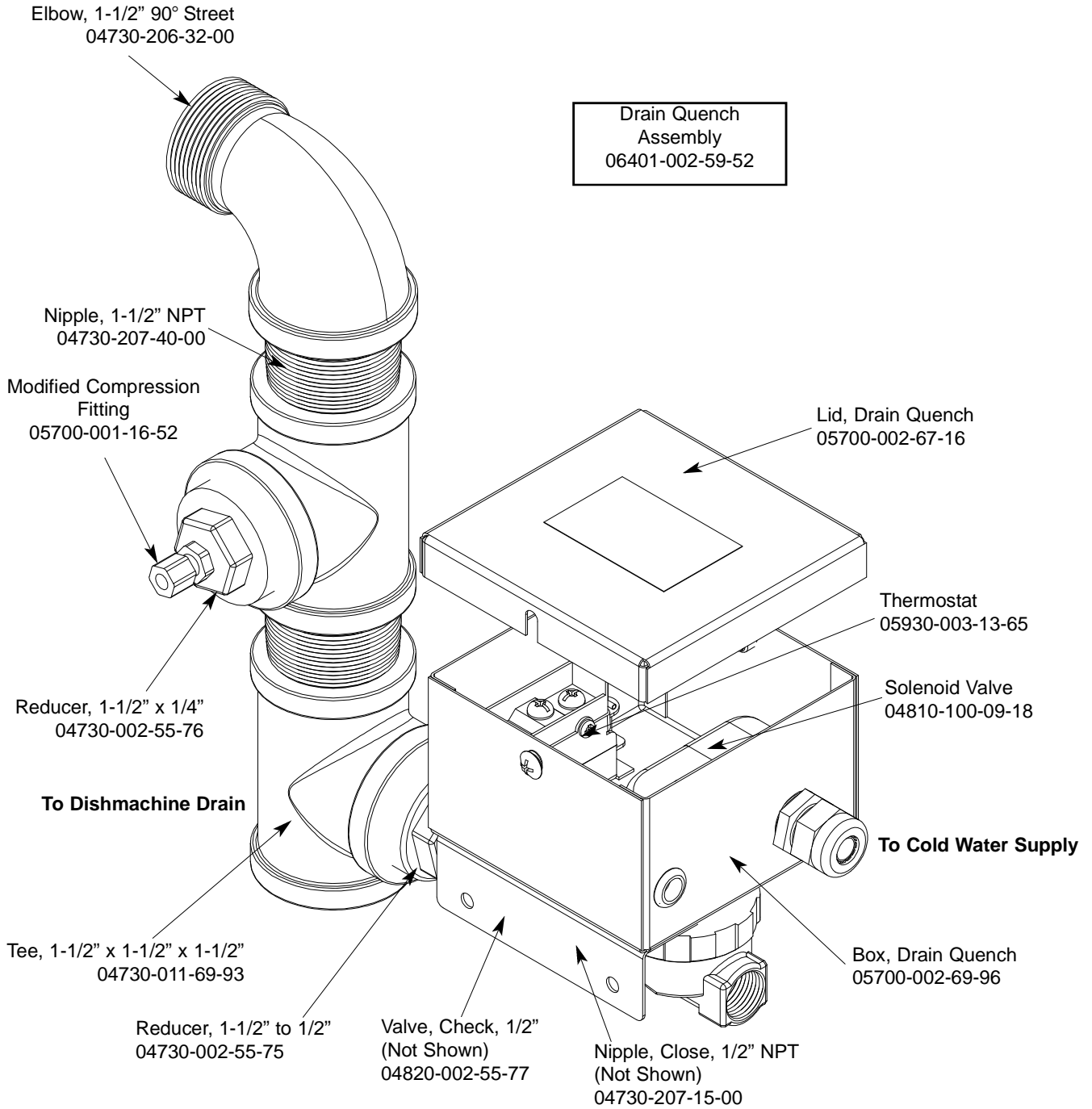
### GO\*BOX COMPONENTS

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 the following Mfg. No.: 06401-003-62-04

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Contactora, Rinse/Wash Heater	05945-109-01-69
2	1	Contactora, Wash Motor	05945-002-74-20
3	1	Gauge, Pressure, 0-100 PSI	06685-111-88-34
4	1	Thermometer, 96" Capillary	06685-111-68-49
5	1	Thermometer, 48" Capillary	06685-111-68-48
6	1	Thermostat, Rinse Operating	06401-140-00-33
7	1	Thermostat, Wash Operating	06401-140-00-32
8	1	Thermostat, Hi-Limit	05930-011-49-43
9	1	Liquid Level Control	06680-200-08-21
10	1	Probe, water level sensing	06680-200-02-68
11	1	Magnet, Door	05930-111-51-68
12	6	Glide, Door Edge	05700-111-33-59
13	2	O-Ring Wash Manifold	05330-111-35-15
14	1	Relay, Control 240V 50/60Hz	05945-111-47-51
15	1	Seal, Mechanical Pump (S/S Pumps)	05330-002-34-22
16	1	O-Ring, Wash Pump Gasket	05330-002-81-83
17	1	Switch, Door, Magnetic Reed	05930-111-51-69
18	2	Snap Ring, Retaining, Rinse Arm	05340-112-01-11
19	1	Bearing Assembly, Wash Arm	05700-021-35-97
20	1	Switch, Power Push Button	05930-002-29-13
21	1	Timer, Universal	05945-003-33-09
22	4	Washer, Rinse Arm Nylatron	05330-011-42-10
23	1	Vacuum Breaker 1/2" Brass	04820-003-06-13
24	1	Valve, Solenoid, 1/2", 208-220V	04810-100-09-18
*	1	Pump & Motor Assembly, S/S Special pricing available when purchased with above GO*BOX. Call for details.	06105-002-69-78

**SECTION 5: PARTS SECTION**  
**DRAIN QUENCH ASSEMBLY**



From the existing drain, attach the two additional Tees using the 1-1/2" NPT Close Nipples. Tighten the Reducers into the Tees as shown above. Attach the Modified Compression Fitting into the 1-1/2" to 1/4" Reducer. Position the bulb of the thermostat so that it rests approximately 1/4" from the bottom of the Tee. Tighten the Modified Compression Fitting as required. Attach to the incoming cold water line. Use pipe dope or thread tape as required to prevent any leaks.

---

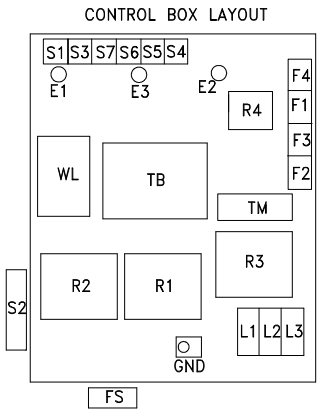
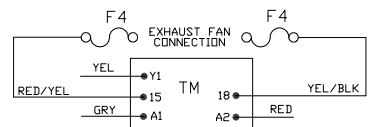
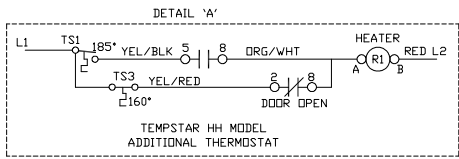
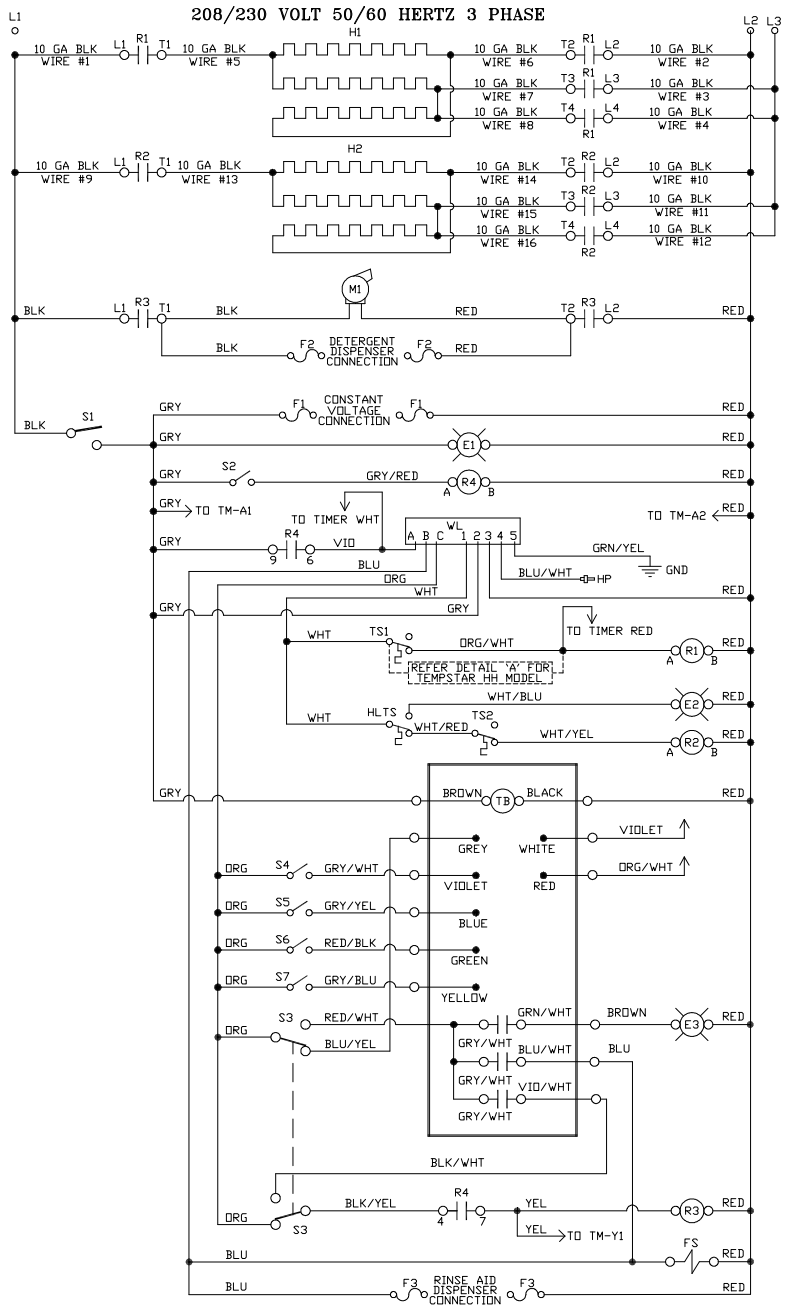
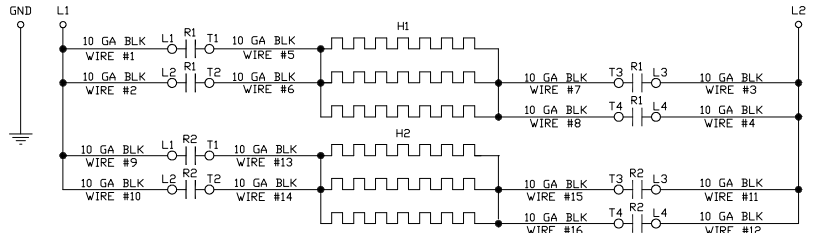
**SECTION 6A:  
ELECTRICAL SCHEMATICS  
FOR TOP MOUNT UNITS**

# SECTION 6: ELECTRICAL SCHEMATICS

## TEMPSTAR (TOP MOUNT W/ CYCLE SWITCHES) 208-230 VOLT - 50/60 HERTZ - SINGLE & THREE PHASE

### LEGEND

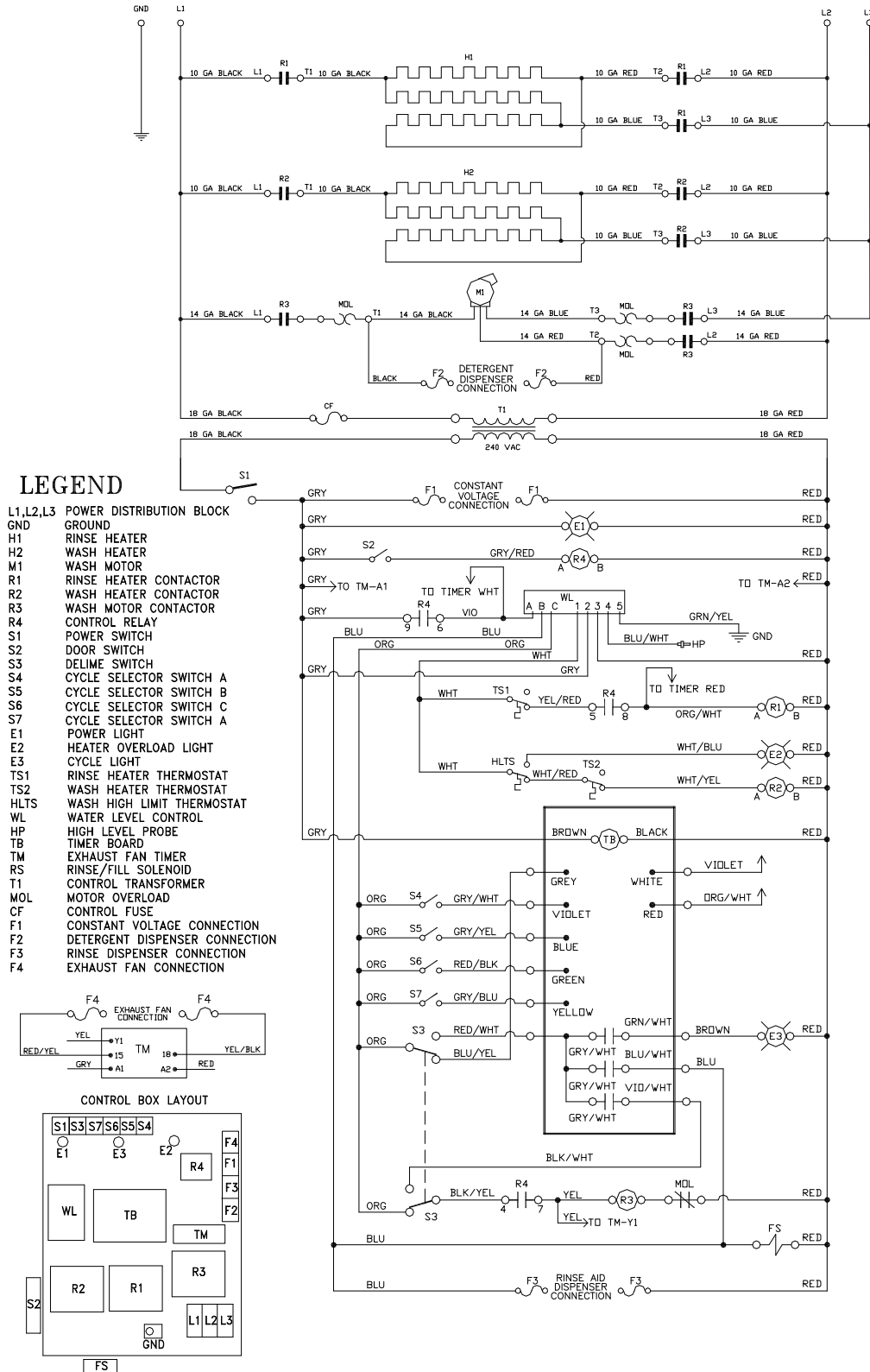
- L1 L2 L3 POWER DISTRIBUTION BLOCK
- GND GROUND
- H1 RINSE HEATER
- H2 WASH HEATER
- M1 WASH MOTOR
- R1 RINSE HEATER CONTACTOR
- R2 WASH HEATER CONTACTOR
- R3 WASH MOTOR CONTACTOR
- R4 CONTROL RELAY
- F1 CONSTANT VOLTAGE CONNECTION
- F2 DETERGENT DISPENSER FUSE BLOCK
- F3 RINSE DISPENSER FUSE BLOCK
- F4 EXHAUST FAN FUSE BLOCK
- S1 POWER SWITCH
- S2 DOOR SWITCH
- S3 AUTO/MANUAL (DELIME) SWITCH
- S4 CYCLE SELECTOR SWITCH A
- S5 CYCLE SELECTOR SWITCH B
- S6 CYCLE SELECTOR SWITCH C
- S7 CYCLE SELECTOR SWITCH D
- E1 POWER LIGHT
- E2 HEATER OVERLOAD LIGHT
- E3 CYCLE LIGHT
- HLTS WASH HEATER HIGH LIMIT THERMOSTAT
- TS1 RINSE HEATER THERMOSTAT 1
- TS2 WASH HEATER THERMOSTAT
- HP HIGH WATER LEVEL PROBE
- WL WATER LEVEL CONTROL
- FS RINSE/FILL SOLENOID
- TB TIMER BOARD
- TM EXHAUST FAN TIMER



09905-003-30-39 F

# SECTION 6: ELECTRICAL SCHEMATICS

## TEMPSTAR (TOP MOUNT W/ CYCLE SWITCHES) 460 VOLT - 60 HERTZ -THREE PHASE

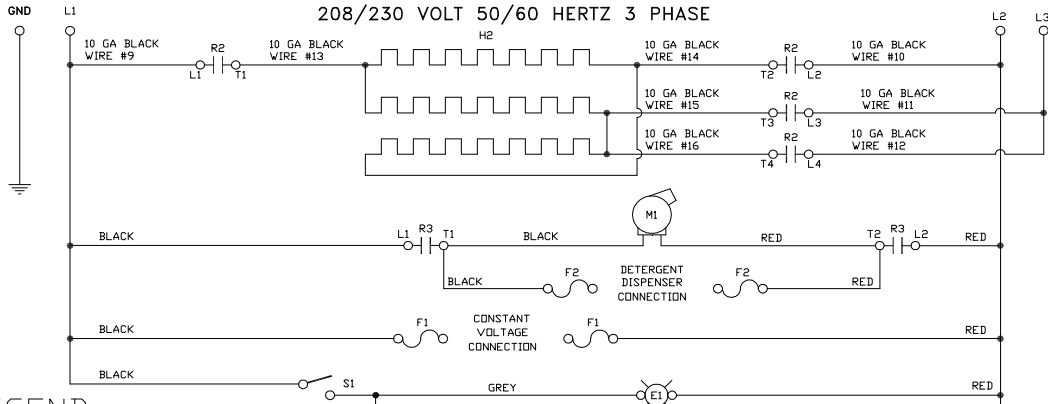
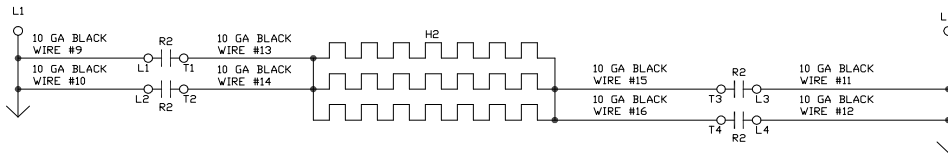


09905-003-30-67D



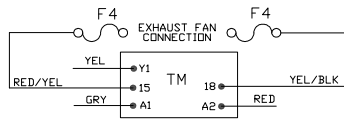
# SECTION 6: ELECTRICAL SCHEMATICS

TEMPSTAR LT & NB (TOP MOUNT W/ CYCLE SWITCHES) 208-230 VOLT - 50/60 HERTZ - SINGLE & THREE PHASE

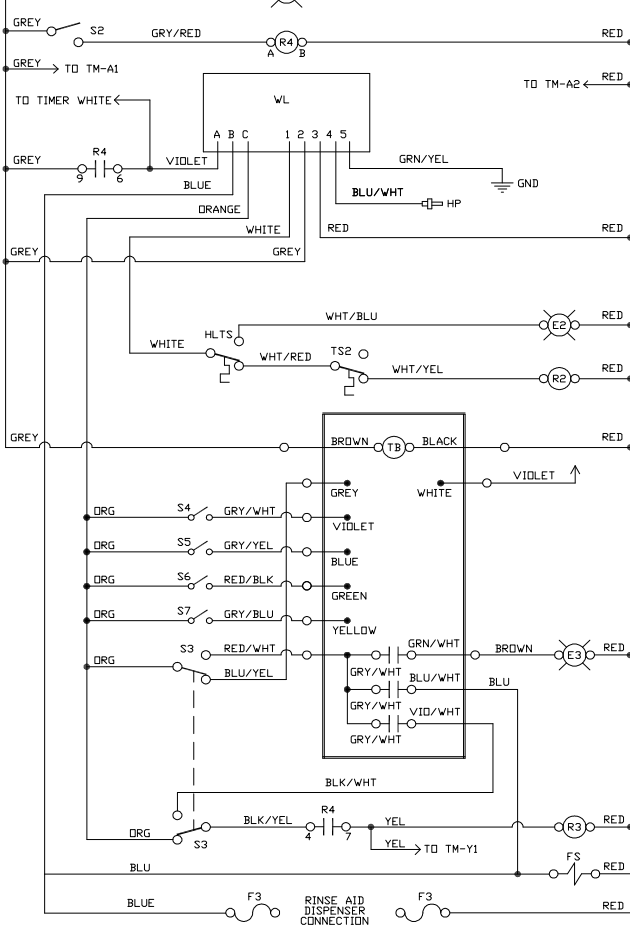
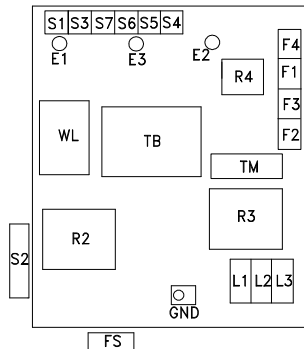


## LEGEND

- L1 L2 L3 RINSE HEATER
- GND GROUND
- H2 WASH HEATER
- M1 WASH MOTOR
- R2 WASH HEATER CONTACTOR
- R3 WASH MOTOR CONTACTOR
- R4 CONTROL RELAY
- F1 CONSTANT VOLTAGE CONNECTION
- F2 DETERGENT DISPENSER CONNECTION
- F3 RINSE DISPENSER CONNECTION
- F4 EXHAUST FAN CONNECTION
- S1 POWER SWITCH
- S2 DDDR SWITCH
- S3 AUTO/MANUAL (DELIME) SWITCH
- S4 CYCLE SELECTOR SWITCH A
- S5 CYCLE SELECTOR SWITCH B
- S6 CYCLE SELECTOR SWITCH C
- S7 CYCLE SELECTOR SWITCH D
- E1 POWER LIGHT
- E2 HEATER OVERLOAD LIGHT
- E3 CYCLE LIGHT
- HLTS WASH HEATER HI-LIMIT THERMOSTAT
- TS2 WASH HEATER THERMOSTAT
- HP HIGH WATER LEVEL PROBE
- WL WATER LEVEL CONTROL
- FS RINSE/FILL SOLENOID
- TB TIMER BOARD
- TM EXHAUST FAN CONNECTION



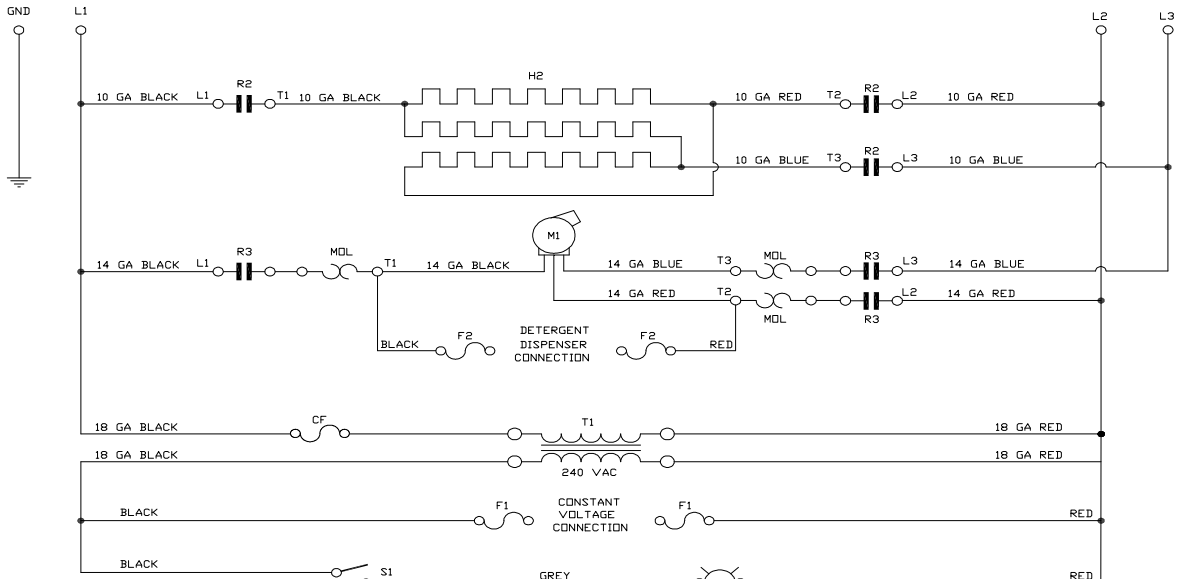
## CONTROL BOX LAYOUT



09905-003-14-97D

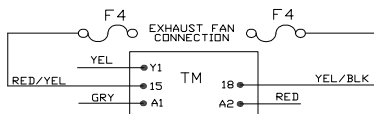
# SECTION 6: ELECTRICAL SCHEMATICS

TEMPSTAR LT & NB (TOP MOUNT W/ CYCLE SWITCHES) 460 VOLT - 50/60 HERTZ - SINGLE & THREE PHASE

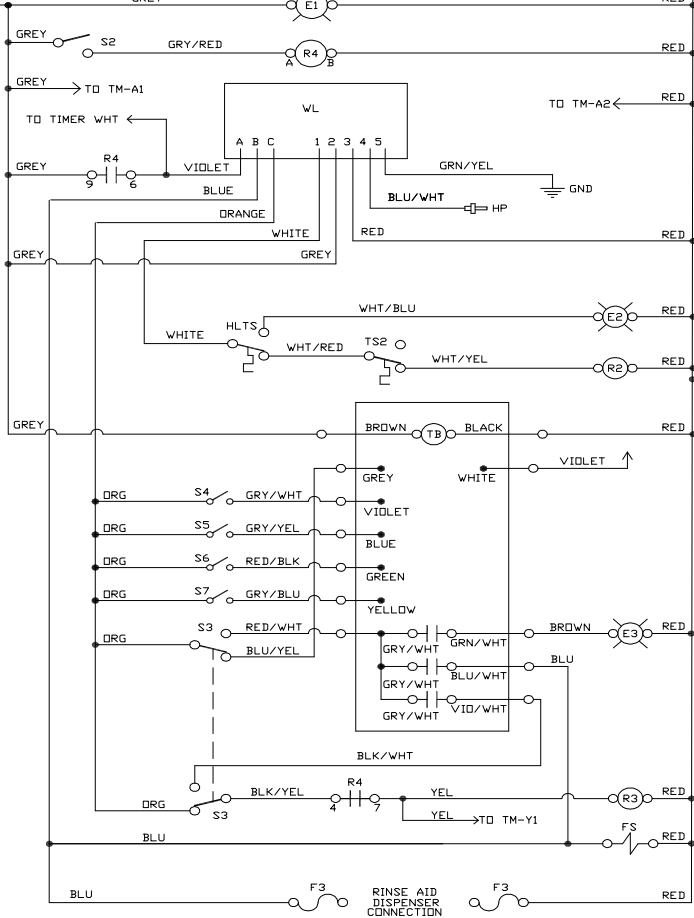
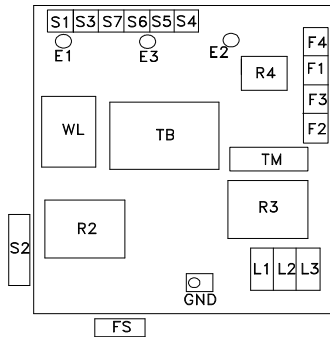


## LEGEND

- L1 L2 L3 RINSE HEATER
- GND GROUND
- H2 WASH HEATER
- M1 WASH MOTOR
- R2 WASH HEATER CONTACTOR
- R3 WASH MOTOR CONTACTOR
- R4 CONTROL RELAY
- F1 CONSTANT VOLTAGE CONNECTION
- F2 DETERGENT DISPENSER CONNECTION
- F3 RINSE DISPENSER CONNECTION
- F4 EXHAUST FAN CONNECTION
- S1 POWER SWITCH
- S2 DOOR SWITCH
- S3 AUTO/MANUAL (DELIME) SWITCH
- S4 CYCLE SELECTOR SWITCH A
- S5 CYCLE SELECTOR SWITCH B
- S6 CYCLE SELECTOR SWITCH C
- S7 CYCLE SELECTOR SWITCH D
- E1 POWER LIGHT
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- TS2 WASH HEATER THERMOSTAT
- HP HIGH WATER LEVEL PROBE
- WL WATER LEVEL CONTROL
- FS RINSE/FILL SOLENOID
- TB TIMER BOARD
- TM EXHAUST FAN TIMER



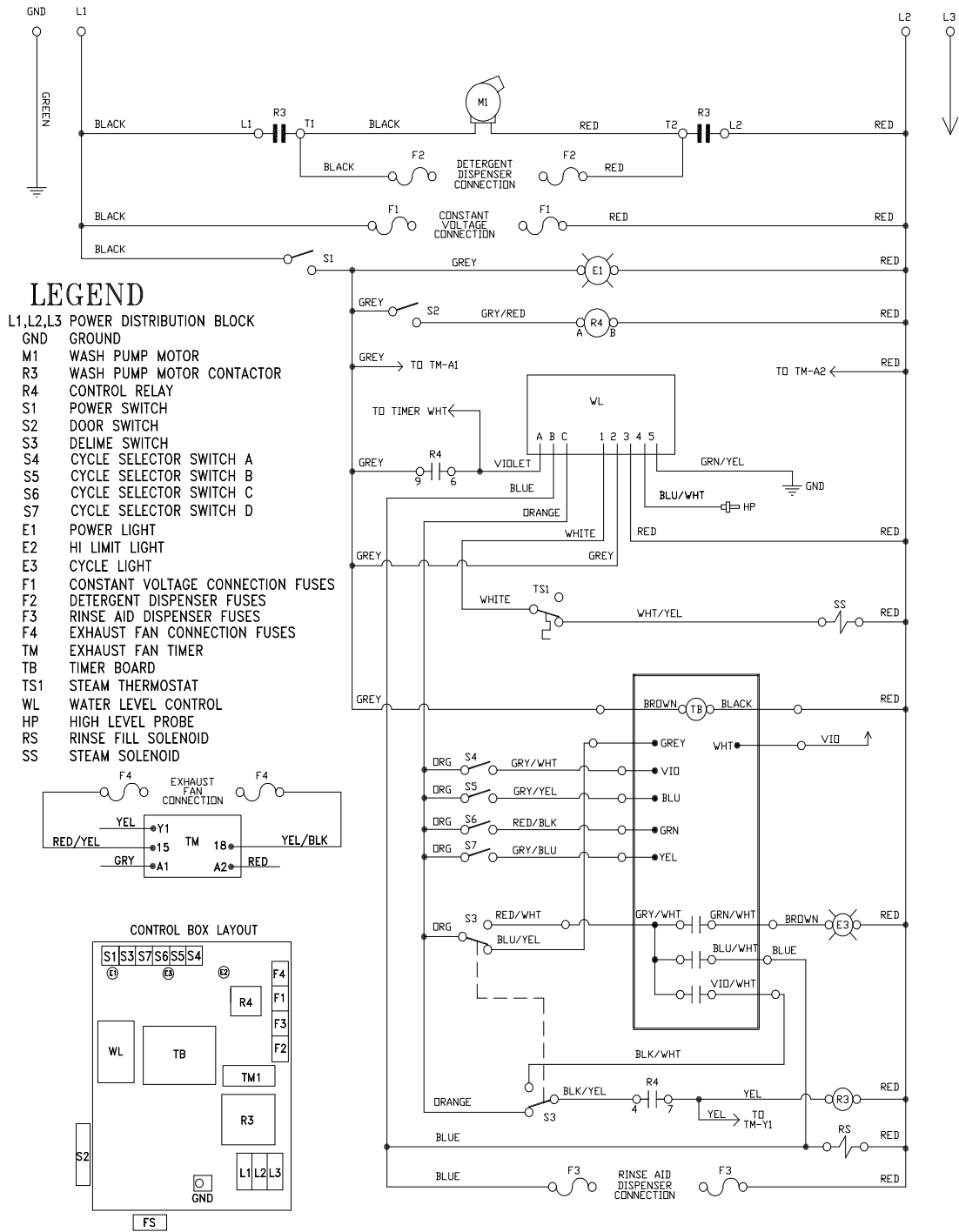
## CONTROL BOX LAYOUT



9905-003-14-98D

## SECTION 6: ELECTRICAL SCHEMATICS

### TEMPSTAR S (TOP MOUNT UNIVERSAL TIMER) 208-230 VOLT - 50/60 HERTZ - SINGLE & THREE PHASE



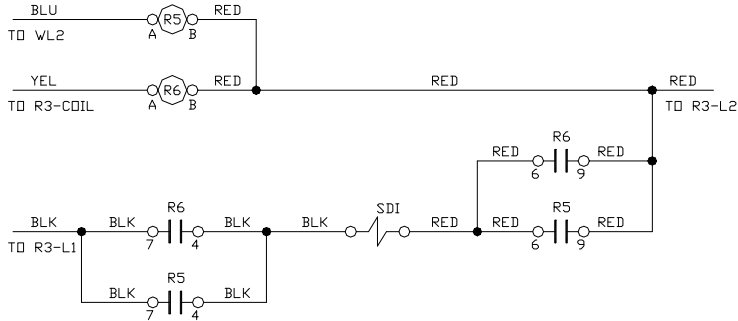
9905-003-14-99C

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**SECTION 6C:  
ELECTRICAL SCHEMATICS  
FOR OPTIONS**

**SECTION 6: ELECTRICAL SCHEMATICS**  
SDI OPTION

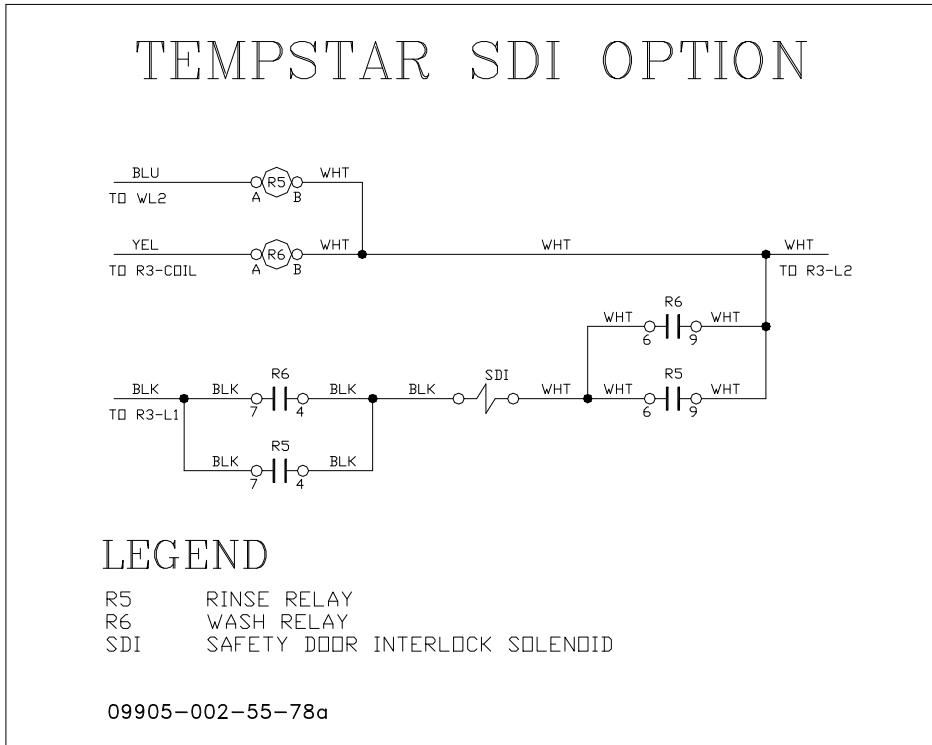
# TEMPSTAR SDI OPTION



## LEGEND

- R5 RINSE RELAY
- R6 WASH RELAY
- SDI SAFETY DOOR INTERLOCK SOLENOID

09905-002-35-85a

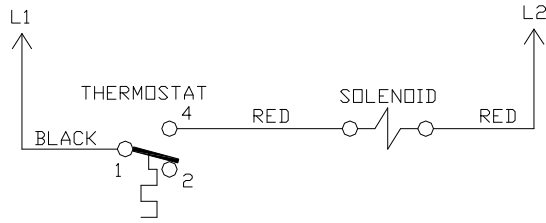


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**SECTION 6: ELECTRICAL SCHEMATICS**  
**EXHAUST FAN HOOKUP/DRAIN QUENCH OPTIONS**

---

**DRAIN QUENCH SYSTEM**



CONNECT BLACK WIRE TO MOTOR CONTACTOR - L1 WITH PIGGYBACK TERMINAL PROVIDED  
CONNECT WHITE WIRE TO MOTOR CONTACTOR - L2 WITH PIGGYBACK TERMINAL PROVIDED

---

**SECTION 7:  
JACKSON MAINTENANCE &  
REPAIR CENTERS**

## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### ALABAMA TO FLORIDA

#### ALABAMA

##### JONES-McLEOD APPLIANCE SVC

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

##### JONES-McLEOD APPLIANCE SVC

854 LAKESIDE DRIVE  
MOBILE, AL 36693  
(251) 666-7278  
800-237-9859  
FAX: (251) 661-0223

#### ALASKA

##### RESTAURANT APPLIANCE SERVICE

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

#### ARIZONA

##### AUTHORIZED COMMERCIAL FOOD EQMT. SVC

4832 SOUTH 35TH STREET  
PHOENIX, AZ 85040  
(602) 234-2443  
800-824-8875  
FAX: (602) 232-5862  
acsboss@aol.com

##### GCS SERVICE INC.

PHOENIX, AZ  
(602) 474-4510  
800-510-3497  
FAX: (602) 470-4511

#### ARKANSAS

##### BROMLEY PARTS & SVC

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

##### GCS SERVICE, INC.

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

#### CALIFORNIA

##### BARKERS FOOD MACHINERY SERVICES

5367 SECOND STREET  
IRWINDALE, CA 91706  
(626) 960-9390  
800-258-6999  
FAX: (626) 337-4541  
service@barkers.com

##### GCS SERVICE INC.

LOS ANGELES, CA  
(213) 683-2090  
800-327-1433  
FAX: (213) 683-2099

##### GCS SERVICE INC.

SANTA ANA, CA  
(714) 542-1798  
800-540-0719  
FAX: (714) 542-4787

##### GCS SERVICE INC.

S. SAN FRANCISCO, CA  
(650) 635-0720  
800-969-4427  
FAX: (650) 871-4019

##### COMMERCIAL APPLIANCE SERVICE, INC.

6507 PACIFIC AVENUE, SUITE 102  
STOCKTON, CA 95207  
(916) 567-0203  
(800) 464-2222  
(916) 567-0266 FAX

##### GCS SERVICE INC.

SAN DIEGO, CA  
(858) 549-8411  
800-422-7278  
FAX: (858) 549-2323

##### INDUSTRIAL ELECTRIC SVC.

5662 ENGINEER DRIVE  
HUNTINGTON BEACH, CA 92649  
(714) 379-7100  
(800-457-3783  
FAX: (714) 379-7109

##### P & D APPLIANCE SVC

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

#### P & D APPLIANCE

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

##### COMMERCIAL APPLIANCE SERVICE, INC.

281 LATHROP WAY, #100  
SACRAMENTO, CA 95815  
(916) 567-0203  
(800) 464-2222  
(916) 567-0324 FAX

#### COLORADO

##### GCS SERVICE INC.

SHERIDAN, CO  
(303) 371-9054  
800-972-5314  
FAX: (303) 371-4754

##### HAWKINS COMMERCIAL APPLIANCE SERVICE

3000 S. WYANDOT ST.  
ENGLEWOOD, CO 80110  
(303) 781-5548  
(800) 624-2117  
FAX: (303) 761-5561  
johns@hawkinscommercial.com

##### METRO APPLIANCE SERVICE

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

#### CONNECTICUT

##### GCS SERVICE INC.

HARTFORD, CT  
(860) 549-5575  
800-423-1562  
FAX: (860) 527-6355

##### SUPERIOR KITCHEN SERVICE INC.

22 THOMPSON ROAD  
WINDSOR, CT 06088  
(888) 590-1899  
(888) 590-1996 FAX

#### DELAWARE

##### FOOD SERVICE EQMT.

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

#### GCS SERVICE INC.

PHILADELPHIA, PA  
(215)925-6217  
800-441-9115  
FAX: (215) 925-6208

#### ELMER SCHULTZ SERVICE

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

#### EMR SERVICE DIVISION

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

#### FLORIDA

##### COMMERCIAL APPLIANCE SERVICE

8416 LAUREL FAIR CIRCLE  
BLDG 6, SUITE 114  
TAMPA, FL 33610  
(813) 663-0313  
800-282-4718  
FAX: (813) 663-0212  
commercialappliance@world-net.att.net

##### GCS SERVICE INC

MIAMI, FL  
(305) 621-6666  
800-766-8966  
FAX: (305) 621-6656

##### GCS SERVICE INC

ORLANDO, FL  
(407) 841-2551  
800-338-7322  
FAX: (407) 423-8425

##### NASS PARTS AND SERVICE, INC.

1144 BELVILLE ROAD, UNIT 359  
DAYTONA BEACH, FL 32114  
(386) 226-2642  
(800) 432-2795  
(386) 736-7695 FAX

##### GCS SERVICE INC

TAMPA, FL  
(813) 626-6044  
800-282-3008  
FAX: (813) 621-1174



## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### FLORIDA TO MARYLAND

#### JONES-McLEOD APPLIANCE SVC

854 LAKESIDE DRIVE  
MOBILE, AL 36693  
(251) 666-7278  
800-237-9859  
FAX: (251) 661-0223  
service@jones-mcleod.com

#### NASS PARTS AND SERVICE, INC.

1108 SOUTH WOODS AVENUE  
ORLANDO, FL 32805  
(407) 425-2681  
(800) 432-2795  
(407) 425-3463 FAX

#### NASS PARTS AND SERVICE, INC.

1376 HEIDE AVENUE  
PALM BAY, FL 32907  
(321) 952-2012  
(800) 432-2795  
(321) 953-0266 FAX

#### GEORGIA

#### GCS SERVICE INC

ATLANTA, GA  
(770) 452-7322  
800-334-3599  
FAX: (770) 452-7473

#### HERITAGE FOODSERVICE

**GROUP OF ATLANTA**  
2100 NORCROSS PKWY.  
SUITE 130  
NORCROSS, GA 30071  
(770) 368-1465  
866-388-9837  
FAX: (866) 388-9838

#### WHALEY FOODSERVICE REPAIRS

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

#### PIERCE PARTS & SERVICE

2422 ALLEN ROAD  
MACON, GA 31216  
(478) 781-6003  
800-368-2512  
FAX: (478) 781-7186

#### HAWAII

#### FOOD EQMT. PARTS & SERVICE CO.

300 PUUHALE RD.  
HONOLULU, HI 96819  
(808) 847-4871  
FAX: (808) 842-1560  
fepsco@hula.net

#### IDAHO

#### RESTAURANT APPLIANCE SVC.

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

#### RON'S SERVICE

703 E 44TH STREET STE 10  
GARDEN CITY, ID 83714  
(208) 375-4073  
FAX: (208) 375-4402

#### ILLINOIS

#### CONES REPAIR SVC.

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

#### EICHENAUER SERVICES INC.

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

#### GCS SERVICE INC.

ELMHURST, IL  
(630) 941-7800  
800-942-9689  
FAX: (630) 941-6048

#### GCS SERVICE INC.

ST. LOUIS, MO  
(314) 683-7444  
800-284-4427  
FAX: (314) 638-0135

#### GENERAL PARTS, INC.

248 JAMES STREET  
BENSONVILLE, IL 60106  
(630) 595-3300  
(800) 880-3604  
FAX: (630) 595-0006

#### INDIANA

#### GCS SERVICE INC.

INDIANAPOLIS, IN  
(317) 545-9655  
800-727-8710  
FAX: (317) 549-6286

B622 LA PAS TRAIL

INDIANAPOLIS, IN 46268  
(317) 290-8060  
(800) 410-9794  
(317) 290-8085 FAX

#### IOWA

#### GOODWIN TUCKER GROUP

#### 2900 DELAWARE AVENUE

DES MOINES, IA 50317  
(515) 262-9308  
800-372-6066  
FAX: (515) 262-2936  
parts@goodwintucker.com

#### CONES REPAIR SVC.

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

#### KANSAS

#### GCS SERVICE INC.

KANSAS CITY, MO  
(816) 920-5999  
800-229-6477  
FAX: (816) 920-7387

#### GENERAL PARTS, INC.

1101 E. 13TH STREET  
KANSAS CITY, MO 64106  
(816) 421-5400  
(800) 279-9967  
(816) 421-1270 FAX

#### KENTUCKY

#### CERTIFIED SERVICE CENTER

127 DISHMAN LANE  
BOWLING GREEN, KY 42101  
(270) 783-0012  
(877) 907-0012  
FAX: (270) 783-0058

#### CERTIFIED SERVICE CENTER

#### RAMCO BUSINESS PARK

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

#### CERTIFIED SERVICE CENTER

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

#### GCS SERVICE INC.

LOUISVILLE, KY  
(502) 367-1788  
800-752-6160  
FAX: (502) 367-0400

#### GCS SERVICE INC.

LEXINGTON, KY  
(606) 255-0746  
800-432-9260  
FAX: (606) 255-0748

#### LOUISIANA

#### HERITAGE SERVICE GROUP

1532 RIVER OAKS WEST  
NEW ORLEANS, LA 70123  
(504) 734-8864  
(800) 499-2351  
(504) 733-2559 FAX

#### MAINE

#### GCS SERVICE INC.

CHELSEA, MA  
(617) 889-9393  
800-225-1155  
FAX: (617) 889-1222

#### MASSACHUSETTS RESTAURANT SUPPLY

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

#### PINE TREE FOOD EQUIPMENT

175 LEWISTON ROAD  
GRAY, ME 04039  
(207) 657-6400  
(800) 540-5427  
(207) 657-5464 FAX

#### MARYLAND

#### EMR SERVICE DIVISION

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

## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### MARYLAND TO NEW YORK

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

**EMR SERVICE DIVISION**  
5316 Sunnyside Ave.  
Beltsville, MD 20715  
(301) 931-7000  
800-348-2365  
FAX: (301) 931-3060  
baltparts@emrco.com

**GCS SERVICE INC.**  
SILVER SPRING, MD  
(301) 585-7550 (DC)  
(410) 792-0338 (BALT)  
(800) 638-7278  
FAX: (301) 495-4410

#### MASSACHUSETTS

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

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

**GCS SERVICE INC.**  
CHELSEA, MA  
(617) 889-9393  
800-225-1155  
FAX: (617) 889-1222

**GCS SERVICE INC.**  
HARTFORD, CT  
(860) 549-5575  
800-723-1562  
FAX: (860) 527-6355

**SUPERIOR KITCHEN SER-  
VICE INC.**  
399 FERRY STREET  
EVERETT, MA 02149  
(617) 389-1899  
(888) 590-1899  
(617) 389-1996 FAX

#### MICHIGAN

**GCS SERVICE INC.**  
LIVONIA, MI  
(248) 426-9500  
800-772-2936  
FAX: (248) 426-7555

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

**GCS SERVICE INC.**  
GRAND RAPIDS, MI  
(616) 241-0200  
800-823-4866  
FAX: (616) 241-0541

#### MINNESOTA

**GCS SERVICE INC.**  
MINNEAPOLIS, MN  
(612) 546-4221  
800-345-4221  
FAX: (612) 546-4286

**GENERAL PARTS, INC.**  
11311 HAMPSHIRE AVENUE  
SOUTH  
BLOOMINGTON, MN 55438-  
2456  
(952) 944-5800  
(800) 279-9980  
(800) 279-9980 FAX

#### MISSISSIPPI

**GCS SERVICE INC.**  
JACKSON, MS  
(601) 956-7800  
800-274-5954  
FAX: (601) 956-1200

**GCS SERVICE INC.**  
MEMPHIS, TN  
(901) 366-4587  
800-262-9155  
FAX: (901) 366-4588

#### MISSOURI

**GCS SERVICE INC.**  
KANSAS CITY, MO  
(816) 920-5999  
800-229-6477  
FAX: (816) 920-7387

**GCS SERVICE INC.**  
ST. LOUIS, MO  
(314) 638-7444  
800-284-4427  
FAX: (314) 638-0135

**KAEMMERLIN PARTS & SVC.**  
2728 LOCUST STREET  
ST. LOUIS, MO 63103  
(314) 535-2222  
FAX: (314) 535-6205  
petek@kps.stl.com

**GENERAL PARTS, INC.**  
1101 EAST 13TH STREET  
KANSAS CITY, MO 64106  
(816) 421-5400  
(800) 279-9967  
(816) 421-1270 FAX

#### MONTANA

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

#### NEBRASKA

**GOODWIN - TUCKER GROUP**  
7535 D STREET  
OMAHA, NE 68124  
(402) 397-2880  
800-228-0342  
FAX: (402) 397-2881  
askme@goodwintucker.com

#### NEVADA

**HI TECH COMMERCIAL SER-  
VICE**  
1840 STELLA LAKE STREET  
NORTH LAS VEGAS, NV 89106  
(702) 649-4616  
(877) 924-4832  
FAX: (702) 649-4607  
larry@hitechnv.com

5454 LOUIE LANE  
RENO, NV 89511  
(775) 852-9696  
FAX: (775) 852-5104

**GCS SERVICE INC.**  
LAS VEGAS, NV  
(702) 450-3495  
800-500-9060  
FAX: (702) 450-3491

#### NEW HAMPSHIRE

**GCS SERVICE INC.**  
CHELSEA, MA  
(617)889-9393  
800-225-1155  
FAX: (617) 889-1222

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

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

#### NEW JERSEY

**JAY HILL REPAIRS**  
90 CLINTON RD.  
FAIRFIELD, NJ 07004  
(973) 575-9145  
800-836-0643  
FAX: (973) 575-5890  
jhrepair@aol.com

**GCS SERVICE INC.**  
EAST RUTHERFORD, NJ  
(973) 614-0003  
800-399-8294  
FAX: (973) 614-0230

**GCS SERVICE INC.**  
PHILADELPHIA, PA  
(215) 925-6217  
800-441-9115  
FAX: (215) 925-6208

**ELMER SCHULTZ SERVICES**  
201 W. WASHINGTON AVE.  
PLEASANTVILLE, NJ 08232  
(609) 641-0317  
800-378-1641  
FAX:(609) 641-8703  
elmer2@erols.com

#### NEW YORK

**APPLIANCE INSTALLATION  
AND SERVICE CORP.**  
1336 MAIN STREET  
BUFFALO, NY 14209  
(716) 884-7425  
800-722-1252  
FAX: (716) 884-0410  
ais@worldnet.att.net

## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### NEW YORK TO PENNSYLVANIA

#### **B.E.S.T. INC.**

3003 GENESEE STREET  
BUFFALO, NY 14225  
(716) 893-6464  
800-338-5011  
FAX: (716) 893-6466  
bestserv@aol.com

#### **DUFFY'S EQUIPMENT SVC.**

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

#### **NORTHERN PARTS & SVC.**

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

#### **GCS SERVICE INC.**

BROOKLYN, NY  
(718) 486-5220  
800-969-4271  
FAX: (718) 486-6772

#### **ALL SERVICE KITCHEN**

EQUIPMENT REPAIR  
10 CHARLES ST.  
NEW HYDE PARK, NY 11040  
(516) 378-1176  
FAX: (516) 378-1735

#### **ALL ISLAND REPAIRS**

40-9 BURT DRIVE  
DEER PARK, NY 11729  
(631) 242-5588  
FAX: (631) 242-6102

#### **NORTH CAROLINA**

#### **AUTHORIZED APPLIANCE SERVICECENTER**

1020 TUCKASEEGEE RD.  
CHARLOTTE, NC 28208  
(704) 377-4501  
(800) 532-6127  
FAX:(704) 377-4504

#### **AUTHORIZED APPLIANCE SERVICECENTER**

800 N. PERSON ST.  
RALEIGH, NC 27604  
(919) 834-3476  
FAX:(919) 834-3477

#### **AUTHORIZED APPLIANCE SERVICECENTER**

904 S. MARSHALL ST.  
WINSTON-SALEM, NC 27403  
(336) 725-5396  
FAX:(336) 721-1289

#### **AUTHORIZED APPLIANCE SERVICECENTER**

104 HINTON AVE.  
WILMINGTON, NC 28403  
(910) 313-1250  
FAX:(910) 313-6130

#### **WHALEY FOODSERVICE**

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

#### **WHALEY FOODSERVICE REPAIRS**

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

#### **WHALEY FOODSERVICE REPAIRS**

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

#### **WHALEY FOODSERVICE REPAIRS**

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

#### **NORTH DAKOTA**

#### **GCS SERVICE INC.**

MINNEAPOLIS, MN  
(612) 546-4221  
800-345-4221  
FAX: (612) 546-4286

#### **GENERAL PARTS, INC.**

10 SOUTH 18TH STREET  
FARGO, ND 58103  
(701) 235-4161  
(800) 279-9987  
(701) 235-0539 FAX

#### **OHIO**

#### **CERTIFIED SERVICE CENTER**

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

#### **CERTIFIED SERVICE CENTER**

171J-K NORTH HAMILTON RD.  
COLUMBUS, OH 43213  
(614) 751-3769  
(866) 862-1252  
FAX: (614) 751-5792  
jadkins@certifiedsc.com

#### **CERTIFIED SERVICE CENTER**

6025 N. DIXIE DRIVE  
DAYTON, OH 45414  
(937) 898-4040  
(800) 257-2611  
FAX: (937) 898-4177  
dharvey@certifiedsc.com

#### **COMMERCIAL PARTS & SVC. OF COLUMBUS**

5033 TRANSAMERICA DRIVE  
COLUMBUS, OH 43228  
(614) 221-0057  
800-837-8327  
FAX: (614) 221-3622

#### **GCS SERVICE INC.**

COLUMBUS, OH  
(614) 476-3225  
800-282-5406  
FAX: (614) 476-1196

#### **ELECTRICAL APPLIANCE REPAIR SVC.**

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

#### **OKLAHOMA**

#### **HAGAR RESTAURANT EQMT.**

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

#### **OREGON**

#### **RON'S SERVICE**

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

#### **PENNSYLVANIA**

#### **A.I.S. COMMERCIAL PARTS & SERVICE**

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

#### **ELMER SCHULTZ SVC.**

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

#### **GCS SERVICE INC.**

PHILADELPHIA, PA  
(215) 925-6217  
800-441-9115  
FAX: (215) 925-6208

#### **GCS SERVICE INC.**

HARRISBURG, PA  
(717) 564-3282  
800-367-3225  
FAX: (717) 564-9286

#### **GCS SERVICE INC.**

PITTSBURGH, PA  
(412) 787-1970  
800-738-1221  
FAX: (412) 787-5005

#### **K & D PARTS AND SERVICE CO.**

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

#### **CLARK SERVICE & PARTS**

306 AIRPORT DRIVE  
BOX 10  
SMOKETOWN, PA 17576  
(717) 392-5590  
(717) 392-5735

## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### RHODE ISLAND TO WISCONSIN

#### RHODE ISLAND

**GCS SERVICE INC.**  
EAST PROVIDENCE, RI  
(401) 434-6803  
800-462-6012  
FAX: (401) 438-9400

#### SUPERIOR KITCHEN SERVICE INC.

669 ELMWOOD AVENUE  
PROVIDENCE, RI 02907  
(888) 590-1899  
(401) 781-1996 FAX

#### SOUTH CAROLINA

#### AUTHORIZED APPLIANCE SERVICECENTER

1811 TAYLOR ST.  
COLUMBIA, SC 29202  
(803) 254-8414  
FAX: (803) 254-5146

#### AUTHORIZED APPLIANCE SERVICECENTER

2249 AUGUSTA RD.  
GREENVILLE, SC 29605  
(864) 235-9616  
FAX: (864) 235-9623

#### WHALEY FOODSERVICE REPAIRS

I 26&US1  
P.O. BOX 4023  
WEST COLUMBIA, SC 29170  
(803) 791-4420  
800-877-2662  
FAX: (803) 794-4630  
info@whaleyfoodservice.com

#### WHALEY FOODSERVICE REPAIRS

748 CONGAREE ROAD  
GREENVILLE, SC 29607  
(864) 234-7011  
800-494-2539  
FAX: (864) 234-6662  
info@whaleyfoodservice.com

#### WHALEY FOODSERVICE REPAIRS

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

#### WHALEY FOODSERVICE REPAIRS

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

#### SOUTH DAKOTA

#### GCS SERVICE INC.

MINNEAPOLIS, MN  
(612) 546-4221  
800-345-4221  
FAX: (612) 546-4286

#### GENERAL PARTS, INC.

10 SOUTH 18TH STREET  
FARGO, ND 58103  
(701) 235-4161  
(800) 279-9987  
(701) 235-0539 FAX

#### TENNESSEE

#### GCS SERVICE INC.

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

#### GCS SERVICE INC.

NASHVILLE, TN  
(615) 244-8050  
800-831-7174  
FAX: (615) 244-8885

#### TEXAS

#### ARMSTRONG REPAIR CENTER

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

#### COMMERCIAL KITCHEN REPAIR CO.

1377 N BRAZOS  
P.O BOX 831128  
SAN ANTONIO, TX 78207  
(210) 735-2811  
800-292-2120  
FAX: (210) 735-7421  
brock@commercialkitchen.com

#### GCS SERVICE INC.

DALLAS, TX  
(972) 484-2954  
800-442-5026  
FAX: (972) 484-2531

#### GCS SERVICE INC.

HOUSTON, TX  
(713)785-9187  
800-868-6957  
FAX: (713) 785-3979

#### GCS/STOVE PARTS

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

#### UTAH

#### LA MONICA'S RESTAURANT EQMT. SVC.

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

#### VERMONT

#### NORTHERN PARTS & SVC.

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

#### GCS SERVICE INC.

CHELSEA, MA  
(617)889-9393  
800-225-1155  
FAX: (617) 889-1222

#### VIRGINIA

#### DAUBERS, INC.

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

#### GCS SERVICE INC.

SILVER SPRING, MD  
(301) 585-7550(DC)  
(410) 792-0388(BALT)  
800-638-7278  
FAX: (301)495-4410

#### GCS SERVICE INC.

RICHMOND, VA  
(804) 672-1700  
800-899-5949  
FAX: (804) 672-2888

#### GCS SERVICE INC.

VIRGINIA BEACH, VA  
(757) 464-3500  
800-476-4278  
FAX: (757) 464-4106

#### WASHINGTON

#### GCS SERVICE INC.

SEATTLE, WA  
(206) 763-0353  
800-211-4274  
FAX: (206) 763-5943

#### RESTAURANT APPLIANCE SERVICE

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

#### WEST VIRGINIA

#### STATEWIDE SERVICE, INC.

603 MAIN AVE.  
NITRO, WV 25143  
(304) 755-1811  
(800) 441-9739  
FAX: (304) 755-4001  
sws3182@aol.com

#### WISCONSIN

#### APPLIANCE SERVICE CENTER, INC.

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

#### APPLIANCE SERVICE CENTER, INC.

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

#### APPLIANCE SERVICE CENTER

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

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## SECTION 7: JACKSON MAINTENANCE & REPAIR CENTERS

### WISCONSIN TO WYOMING/INTERNATIONAL

#### **GENERAL PARTS, INC.**

W223 N735 SARATOGA DRIVE  
WAUKESHA, WI 53186  
(262) 650-6666  
(800) 279-9946  
(262) 650-6660 FAX

#### **WYOMING**

#### **HAWKINS COMMERCIAL**

##### **APPLIANCE SERVICE**

3000 S. WYANDOT ST.  
ENGLEWOOD, CO 80110  
(303) 781-5548  
(800) 624-2117  
FAX: (303) 761-5561  
johns@hawkinscommercial.com

#### **METRO APPLIANCE SERVICE**

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

#### **INTERNATIONAL**

#### **GLOBAL PARTS AND SUPPLY**

7758 NW 72ND ST  
MIAMI, FL 33166  
(305) 885-6353

#### **H.D. SHELDON AND CO**

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


#### **CANADA**

#### **THE GARLAND GROUP**

1177 KAMATO ROAD  
MISSISSAUGA, ONTARIO L4W  
1X4  
(905) 206-8380  
SALES  
(905) 624-1419  
FAX: (905) 624-1851  
SERVICE  
800-427-6668  
FAX: 800-361-7745

July 24, 2009



# Jackson Technical Manual Addendum



SERIAL NUMBER:

MODEL: Tempstar

OPERATING PARAMETERS	
MINIMUM WASH TEMPERATURE	150°F
MINIMUM RINSE TEMPERATURE	180°F
MINIMUM INCOMING WATER TEMPERATURE	
70°F RISE BOOSTER	110°F
40°F RISE BOOSTER	140°F
WASH CYCLE TIME	45 SEC
RINSE CYCLE TIME	11 SEC
FLOW PRESSURE	10 PSI

Made in the USA  
Jackson MSC Inc.  
P.O. Box 1060  
Barbourville, KY. 40906  
(606) 523-9795  
09905-003-69-11A

		208-230-460 Volt/60 Hz/3 Phase					
		40°F RISE BOOSTER		70°F RISE BOOSTER			
		<u>208V</u>		<u>230V</u>		<u>460V</u>	
WASH MOTOR	3/4 HP	5.7 A	3/4 HP	5.7 A	3/4 HP	1.8 A	
WASH HEATER	4.1 KW	11.4 A	5 KW	12.6 A	5 KW	6.3 A	
RINSE HEATER	9 KW	<u>25.0 A</u>	11 KW	<u>27.2 A</u>	11 KW	<u>13.8 A</u>	
TOTAL LOAD		42.1 A		45.5 A		21.9 A	
		208-230 Volt/60 Hz/1 Phase					
		<u>208V</u>		<u>230V</u>			
WASH MOTOR	3/4 HP	5.7 A	3/4 HP	5.7 A	3/4 HP	1.8 A	
WASH HEATER	4.1 KW	11.4 A	5 KW	12.6 A	5 KW	6.3 A	
RINSE HEATER	9 KW	<u>43.3 A</u>	11 KW	<u>47.8 A</u>			
TOTAL LOAD		68.7 A		75.2 A			
		<u>208V</u>		<u>230V</u>			
WASH MOTOR	3/4 HP	5.7 A	3/4 HP	5.7 A			
WASH HEATER	4.1 KW	19.7 A	5 KW	21.7 A			
RINSE HEATER	10.5 KW	<u>50.4 A</u>	12.9 KW	<u>56.1 A</u>			
TOTAL LOAD		75.8 A		83.6 A			

Tempstar units that are manufactured with the above referenced data plate are able to be field converted to different phases and voltages. To accomplish this, your unit should have shipped with the Tempstar Phase Conversion Kit, part number 06401-003-71-71. This kit contains the appropriate decals and schematics to apply to your unit once the conversion is complete.

All work should be performed only by Authorized Jackson Service Agents. A listing of your local agents is in the back of your installation manual.

Steps:

1. Perform the appropriate wiring and component changes as necessary to achieve the desired result. Reference Jackson technical manuals or contact technical service for assistance.
2. Verify the Schematic is correct. If not, replace with the correct one from the kit.
3. At the power inlet, remove the "Wired For" decal and replace with the one that matches the configuration of your machine.

