

Champion®



Installation/Operation Manual with Service Replacement Parts



EEUCCW-8



EEUCCW-6



EEUCCW-4

E²series High Temperature Upright Conveyor Dishwasher

Models:

EEUCCW

29" wide conveyor with a 4', 6', or 8' center section

Dishwasher Serial No.



114593_B

P.O. Box 4149
Winston-Salem, NC 27115
336/661-1556 Fax: 336/661-1660
www.championindustries.com

2674 N. Service Road,
Jordan Station Ontario, Canada L0R 1S0
905/562-4195 Fax: 905/562-4618



Issue Date: 12.6.09

Manual P/N 114593 rev.B

Printed in the USA



For future reference, record your dishwasher information in the box below.

Model Number_____ Serial Number_____

Voltage_____Hertz_____ Phase_____

Champion Service Agent _____ Tel: _____

Champion Parts Distributor _____ Tel: _____

ATTENTION:

The dishwasher model no., serial no., voltage, Hz and phase are needed to identify your machine and to answer questions.

Please have this information on-hand if you call for service assistance.



For all models:

The data plate mounts to one side of the top-mounted control cabinet.

National Service Department



In Canada:

Toll-free: 800/ 263-5798

Tel: 905/ 562-4195

Fax: 905/ 562-4618

email: service@moyerdiebellimited.com



In the USA:

Toll-free: 800/ 858-4477

Tel: 336/ 661-1556

Fax: 336/ 661-1660

email: service@championindustries.com



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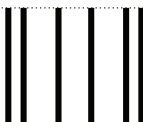
**CHAMPION-MOYER DIEBEL
PO BOX 301
JORDAN STATION ON LOR 1S0**



ATTENTION:

Complete the back of the POSTAGE PAID WARRANTY CARD below, then cut along the dashed lines and mail immediately to make sure that your machine warranty is validated.

USE CANADIAN WARRANTY CARD IN CANADA AND USA WARRANTY CARD IN THE UNITED STATES.



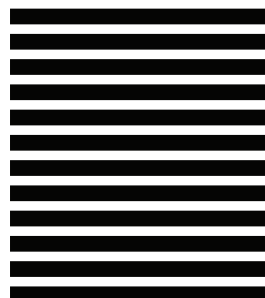
NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 2101 WINSTON-SALEM, NC

POSTAGE WILL BE PAID BY ADDRESSEE

CHAMPION INDUSTRIES INC
PO BOX 4149
WINSTON-SALEM, NC 27119-0981



WARRANTY REGISTRATION CARD

Model	Serial #
-------	----------

Date of Installation: ____/____/____

Company Name: _____

Address: _____
(Street) State or Province Zip Code

Telephone #: () _____ --- _____

Contact: _____

Installation Company: _____

Address: _____

Telephone #: _____

Contact: _____

This Card Must Be Returned to Validate Machine Warranty:

IMPORTANT IMPORTANT

WARRANTY REGISTRATION CARD

Model	Serial #
-------	----------

Date of Installation: ____/____/____

Company Name: _____

Address: _____
(Street) State or Province Zip Code

Telephone #: () _____ --- _____

Contact: _____

Installation Company: _____

Address: _____

Telephone #: _____

Contact: _____

This Card Must Be Returned to Validate Machine Warranty:

IMPORTANT IMPORTANT

Revision History

The Revision History can contain part number changes, new instructions, or information that was not available at print time.

- We reserve the right to make changes to these instructions without notice and without incurring any liability by making the changes..
- Equipment owners may request a revised manual, at no charge, by calling 1 (800) 858-4477 in the USA or by calling 1 (800) 263-5798 in Canada.

<i>Revision Date</i>	<i>Revised Pages</i>	<i>Serial Number Effectivity</i>	<i>Revision Description</i>
8/6/09	All	J09062644	Released first edition
10/6/09	128-129	J09062644	Revised clutch P/N's
12/6/09	62-71	J09062644	Added standpipe gaskets

LIMITED WARRANTY

Champion Industries Inc. (herein referred to as Champion), P.O. Box 4149, Winston-Salem, North Carolina 27115, and P.O. Box 301, 2674 N. Service Road, Jordan Station, Canada, L0R 1S0, warrants machines, and parts, as set out below.

Warranty of Machines: Champion warrants all new machines of its manufacture bearing the name "Champion" and installed within the United States and Canada to be free from defects in material and workmanship for a period of one (1) year after the date of installation or fifteen (15) months after the date of shipment by Champion, whichever occurs first. [See below for special provisions relating to glasswashers.] The warranty registration card must be returned to Champion within ten (10) days after installation. If warranty card is not returned to Champion within such period, the warranty will expire after one year from the date of shipment.

Champion will not assume any responsibility for extra costs for installation in any area where there are jurisdictional problems with local trades or unions.

If a defect in workmanship or material is found to exist within the warranty period, Champion, at its election, will either repair or replace the defective machine or accept return of the machine for full credit; provided; however, as to glasswashers, Champion's obligation with respect to labor associated with any repairs shall end (a) 120 days after shipment, or (b) 90 days after installation, whichever occurs first. In the event that Champion elects to repair, the labor and work to be performed in connection with the warranty shall be done during regular working hours by a Champion authorized service technician. Defective parts become the property of Champion. Use of replacement parts not authorized by Champion will relieve Champion of all further liability in connection with its warranty. In no event will Champion's warranty obligation exceed Champion's charge for the machine. The following are not covered by Champion's warranty:

- a. Lighting of gas pilots or burners.
- b. Cleaning of gas lines.
- c. Replacement of fuses or resetting of overload breakers.
- d. Adjustment of thermostats.
- e. Adjustment of clutches.
- f. Opening or closing of utility supply valves or switching of electrical supply current.
- g. Cleaning of valves, strainers, screens, nozzles, or spray pipes.
- h. Performance of regular maintenance and cleaning as outlined in operator's guide.
- i. Damages resulting from water conditions, accidents, alterations, improper use, abuse, tampering, improper installation, or failure to follow maintenance and operation procedures.
- j. Wear on Pulper cutter blocks, pulse vanes, and auger brush.

Examples of the defects not covered by warranty include, but are not limited to: (1) Damage to the exterior or interior finish as a result of the above, (2) Use with utility service other than that designated on the rating plate, (3) Improper connection to utility service, (4) Inadequate or excessive water pressure, (5) Corrosion from chemicals dispensed in excess of recommended concentrations, (6) Failure of electrical components due to connection of chemical dispensing equipment installed by others, (7) Leaks or damage resulting from such leaks caused by the installer, including those at machine table connections or by connection of chemical dispensing equipment installed by others, (8) Failure to comply with local building codes, (9) Damage caused by labor dispute.

Warranty of Parts: Champion warrants all new machine parts produced or authorized by Champion to be free from defects in material and workmanship for a period of 90 days from date of invoice. If any defect in material and workmanship is found to exist within the warranty period Champion will replace the defective part without charge.

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY. CHAMPION'S WARRANTY IS ONLY TO THE EXTENT REFLECTED ABOVE. CHAMPION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED, TO ANY WARRANTY OF MERCHANTABILITY, OR FITNESS OF PURPOSE. CHAMPION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE REMEDIES SET OUT ABOVE ARE THE EXCLUSIVE REMEDIES FOR ANY DEFECTS FOUND TO EXIST IN CHAMPION DISHWASHING MACHINES AND CHAMPION PARTS, AND ALL OTHER REMEDIES ARE EXCLUDED, INCLUDING ANY LIABILITY FOR INCIDENTALS OR CONSEQUENTIAL DAMAGES.

Champion does not authorize any other person, including persons who deal in Champion Dishwashing machines to change this warranty or create any other obligation in connection with Champion Dishwashing Machines.

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Upright Conveyor Dishwasher

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EEUCCW

Electric high temperature flight-type conveyor dishwasher with built-in electric booster in 40°F/22°C rise or an optional 70°F/39°C rise booster.

Multi-Speed conveyor speed controls and Digital Temperature Display

Steam high temperature flight-type conveyor dishwasher with built-in steam booster in 40°F/22°C rise or an optional 70°F/39°C rise booster.

Multi-Speed conveyor speed controls and Digital Temperature Display.

The installation, and initial start-up of your dishwasher must be performed by qualified electricians, plumbers, and authorized service technicians trained in commercial dishwashers.

Champion provides authorized factory trained service agents to supervise the assembly and initial start-up of your dishwasher.

Defects and repairs caused by unauthorized installers will not be covered by the dishwasher warranty.

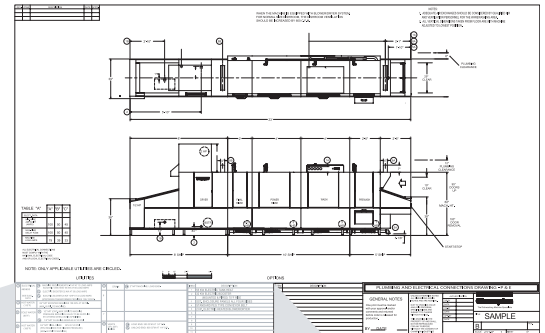


Installation

Plumbing and Electrical Diagram (P & E)

1. A Plumbing and Electrical Diagram, the P&E, was prepared and approved for the installation of the dishwasher prior to shipment. The P&E contains important information detailing the location and requirements for the utility connections required for the installation of the dishwasher.
2. The P&E should be used as a guide when inspecting the installation site and in the placement of the dishwasher sections.
3. A sample P&E is shown below.

PLUMBING AND ELECTRICAL CONNECTIONS DRAWING - P & E			
GENERAL NOTES One print must be marked with your approval and/or comments and returned before order is released for production. BY <u> </u> DATE <u> </u>	<small>UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES AND ARE NOMINAL.</small> <small>DUE TO ONGOING VALUE ANALYSIS PROGRAM, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.</small> <small>THIS DRAWING IS THE PROPERTY OF AND SHALL NOT BE REPRODUCED FOR ANY PURPOSE WITHOUT THE CONSENT OF CHAMPION INDUSTRIES</small>	AUTHENTICATION DR BY <u> </u> DATE <u> </u> CH BY <u> </u> DATE <u> </u> APP BY <u> </u> DATE <u> </u>	Champion <small>The Dishwashing Machine Specialists</small> TITLE <u> </u> B <u> </u> REV. <u> </u> SCALE: 1"=1'-0" 1 SHEET OF
		<div style="text-align: center; font-size: 2em; transform: rotate(-15deg); opacity: 0.5;">SAMPLE</div>	



UTILITIES

①	ELECTRICAL 460/60/3 SEE ELEC. DATA	②	HOT WATER (110°F)	③	COLD WATER (65°F)	④	HOT WATER (180°F)	⑤	DRAIN	⑥	2" NPT MACHINE: LOAD END.	ITEM	DESCRIPTION
												1	55 KW ELECTRIC TANK HEAT
												2	32 KW ELECTRIC BOOSTER (MOUNTED & PIPED) 70°F RISE
												3	SST. ENCLOSURE PANELS ALL FOUR SIDES
												4	STANDARD PEG TYPE CONVEYOR BELT
												5	2 HP. ELECTRIC HEATED BLOWER/DRYER
												6	
												7	
												8	
												9	
												10	
												11	

Installation

Dishwasher Construction

Dishwasher Views:

The standard methods for viewing your dishwasher are:

- Plan View - Viewed from above
- Front view - Viewed facing the top-mounted control cabinet switches.
- Side View - Viewed facing the load or unload sections.

1. The minimum distance from wall to dishwasher is 4" [103mm] to allow for utility connections.
2. The room ceiling height must be a minimum of 80" [2032mm] so the doors can be removed completely.
3. The installation of your dishwasher must be performed by qualified service personnel.
4. Problems due to improper installation are not covered by the Warranty.
5. Compare the utilities at the installation site with the specifications listed on each Plumbing and Electrical Connection Diagram (P&E).
6. The dishwasher data plate is located on the left-hand or right-hand side of the top-mounted control cabinet.
7. The conveyor direction of travel is referenced from the load section to the unload section.
If the load section is on your right then direction of travel for the dishwasher is Right to Left, (R-L).
8. If the load section is on the left then the dishwasher is called a Left to Right, (L-R), dishwasher.

Dishwasher Sections:

1. Load - Soiled ware is sorted and loaded on the conveyor belt. Wares enter the dishwasher.
2. Prewash Tank - Soiled wares are sprayed to remove large particles and to loosen heavy food-soils.
3. Wash Tank - Wares are washed with hot water and detergent.
4. Power Rinse Tank - Wares are rinsed with hot water to remove detergent and any remaining food soils.
5. Auxiliary Rinse - Begins the hot water sanitization process.
6. Final Rinse - Completes the Hot water sanitization process.
7. Unload - Clean wares exit the dishwasher and flash dry on the conveyor belt.
8. Blower Dryer Option - Hot air is forced over wares to speed drying.
9. Heat Recovery Option - Hot air exhaust is recycled to raise the incoming water temperature for the final rinse booster reducing energy costs.

Installation

Receiving

NOTE:

The installation of your dishwasher must be performed by qualified service personnel. Problems due to improper installation are not covered by the Warranty.

1. Inspect the outside of the Conveyor pallet for signs of damage.
2. inspect the Conveyor for damage.
3. Check for any accessories that may have shipped with your dishwasher.
4. Turn to the front of this manual and complete the warranty card. Immediately mail the warranty card to validate your warranty.
5. Move the Conveyor near its permanent location.

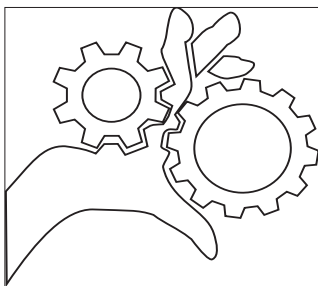
CAUTION:

Be careful when lifting and moving the Conveyor to prevent damage to the machine.

NOTE:

The installation of the Conveyor must comply with local safety and health codes.

6. Compare the installation site utility connections with the dishwasher utility connections and make sure that they are the same.
7. For new dishwasher installations, install the Dishwasher according to the instructions in the dishwasher service manual *Installation, Operation, and Service Replacement Parts*, which is shipped inside the dishwasher.

**WARNING:**

Moving Conveyor Parts may cause INJURY OR DEATH. Keep hands and clothing clear of the conveyor when the conveyor is moving.

USE EXTREME CAUTION WHEN THE CONVEYOR IS MOVING.

**WARNING:**

Electrocution or serious injury may result when working on an energized circuit.

Disconnect power at the main breaker or service disconnect switch before working on the circuit.

Lock-out and tag the breaker to indicate that work is being performed on the circuit.

Installation

Receiving (continued)

ATTENTION

Shipping pallets measure 48"/122cm wide. Standard 36"/92cm doorways often measure less than 35"/89cm in width.

1. Check the shipment for damage immediately upon receipt.
2. Upright conveyor dishwashers ship in sections.
3. Each section is wrapped in a protective covering and secured to a wooden pallet. Labels note the total number of sections shipped, 2 of 4, for example.
4. Fasteners, curtains, panels and other pieces are packed in cardboard boxes and secured to the wash/rinse section of the machine.
5. Inspect the route that the pallets must travel to the permanent location.
6. Measure all passageways and doors before moving the sections to ensure the route is clear.
7. Piping on the rear wall of the dishwasher can be removed to allow the dishwasher to pass through narrow openings if necessary.
8. Compare the location of the site utilities with the Plumbing and Electrical Connection Diagram, (P&E).
9. Make sure the utilities match the dishwasher requirements.



Each section is wrapped and the number of sections is marked on a label attached to each section.



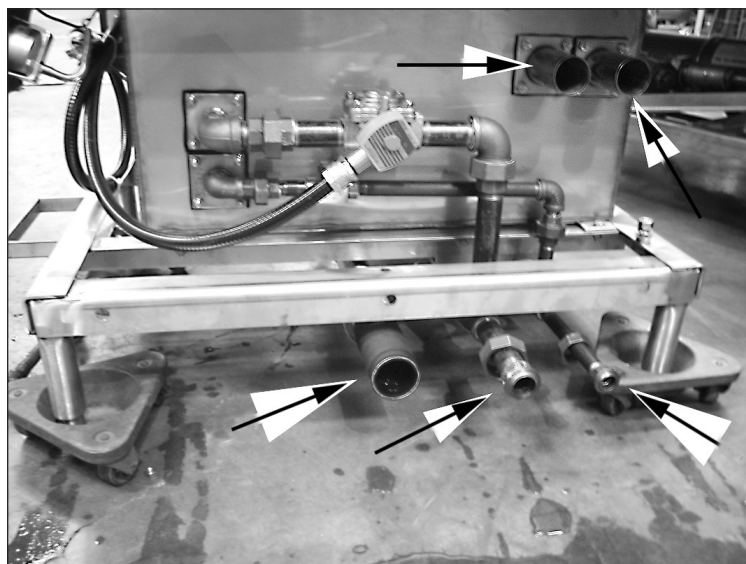
Installation

Receiving

CAUTION

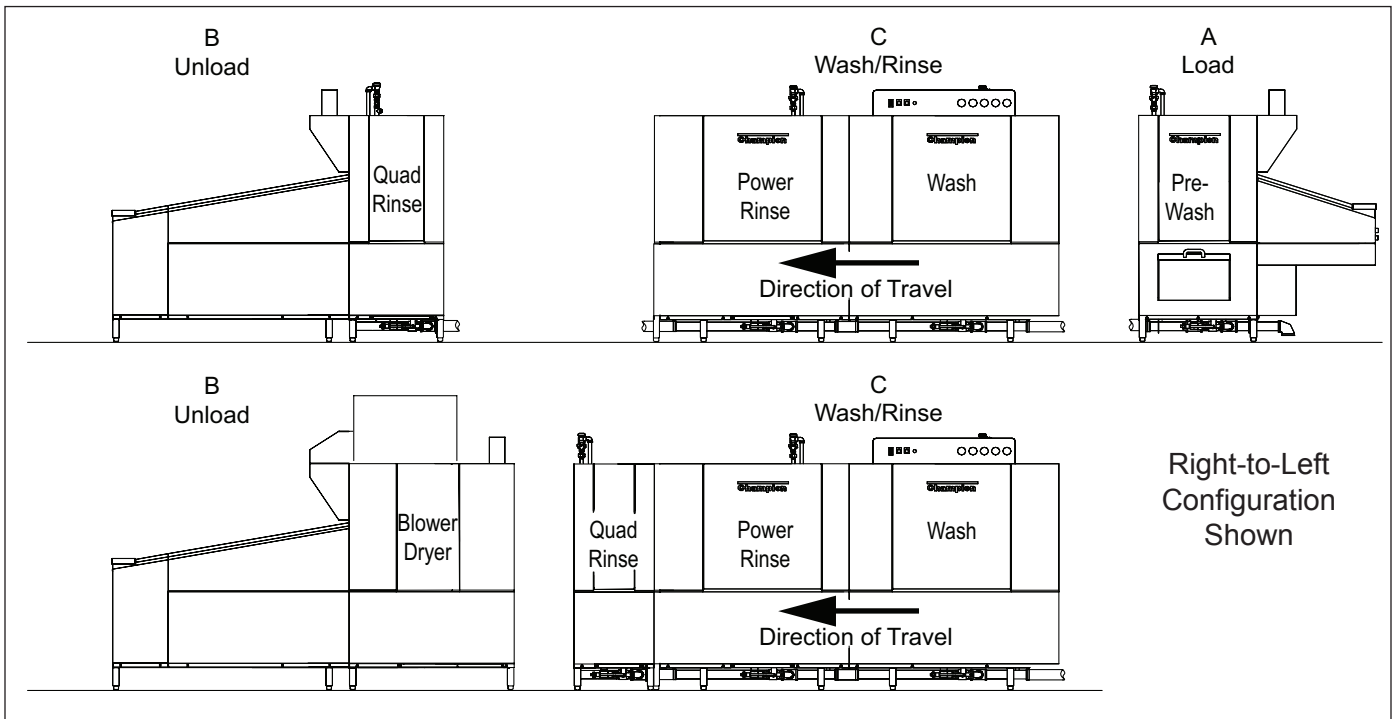
Use extreme care when lifting a section off its pallet to prevent damage to the dishwasher.

1. Check floor stability. Flooring must support the weight of the dishwasher without bowing when weight is applied.
2. Tiled floors may fracture if loads are dropped on or dragged across its surface.
3. Move the pallet sections near their permanent locations. Remove protective coverings, shipping straps, brackets and accessories.
4. Inspect the underside of each section, (below the base) and note the position of piping, valves, and other components that may be in the way.
5. Carefully lift each section off the pallet. Screw the adjustable bullet-feet in as far as possible, then lower the section to the finished floor.
6. The recommended spacing between sections is 24"/61cm.



Installation

Joining the Sections



The dishwasher is shipped in sections and reassembled at the installation site.

Refer to the illustration above.

The dishwasher is broken into sections for shipping and then reassembled at the installation site. The main section of the dishwasher is the Wash/Rinse Section (C) which is made up of the wash tank and the power rinse tank. The Load Section (A) contains the prewash tank and the Unload Section (B) usually contains the quad rinse tank.

If the dishwasher has an Optional Blower Dryer Section then the quad rinse tank is shipped with the Wash/Rinse Section (C).

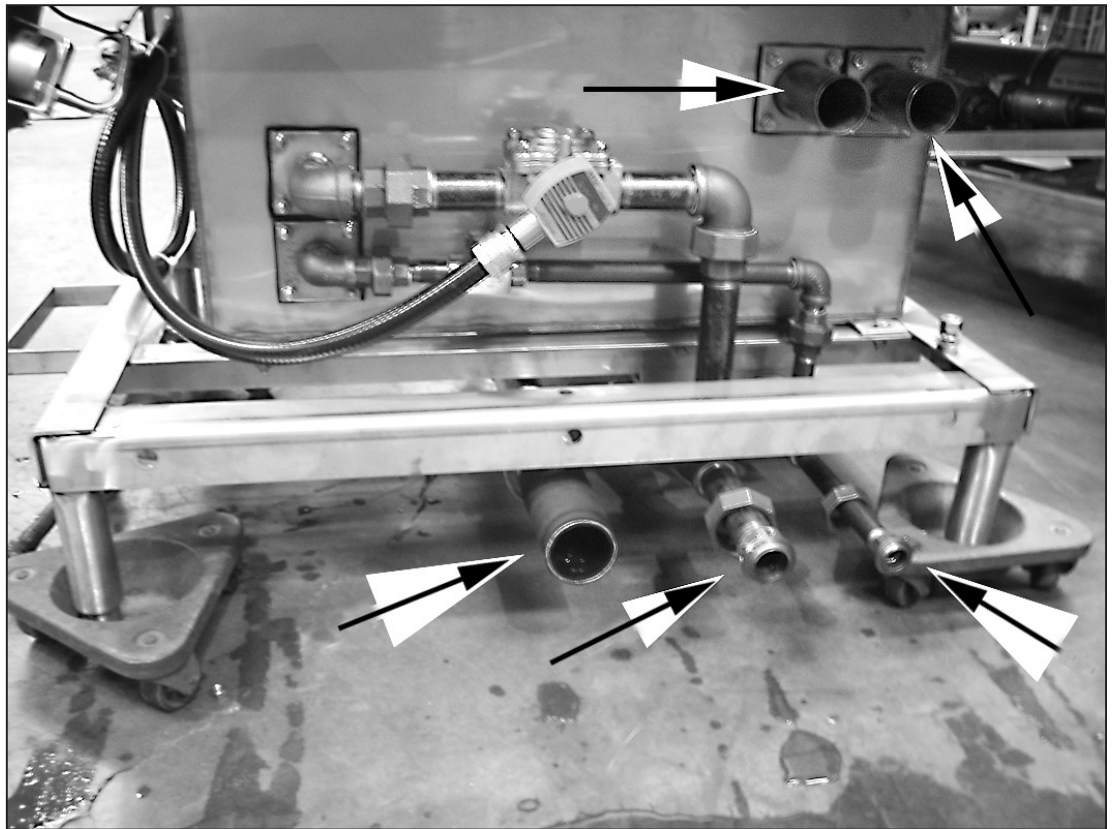
The instructions on the following pages explain how to join the machine sections.



Remove the shipping braces.

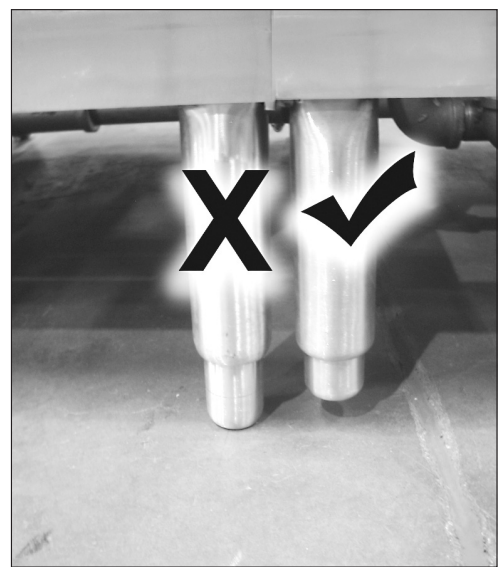
Installation

Joining the Sections



Identify piping..

1. Remove the shipping braces from the sections.
2. Identify the location of piping between the sections.
3. Check the height of each section and determine which section is the highest due to floor variations.
4. Set the "C" section and adjust to its minimum height.
5. Level the "C" section side to side and front to back in several places with a bubble level.
6. The remaining sections are leveled in relation to "C" section.
7. Do not adjust the "C" section too high.

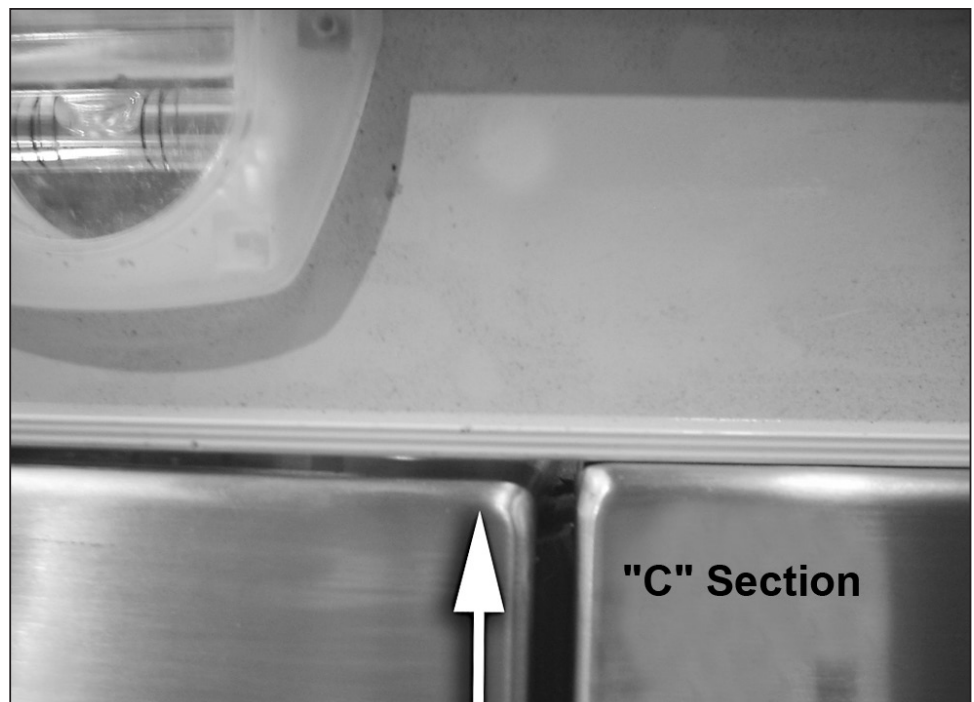
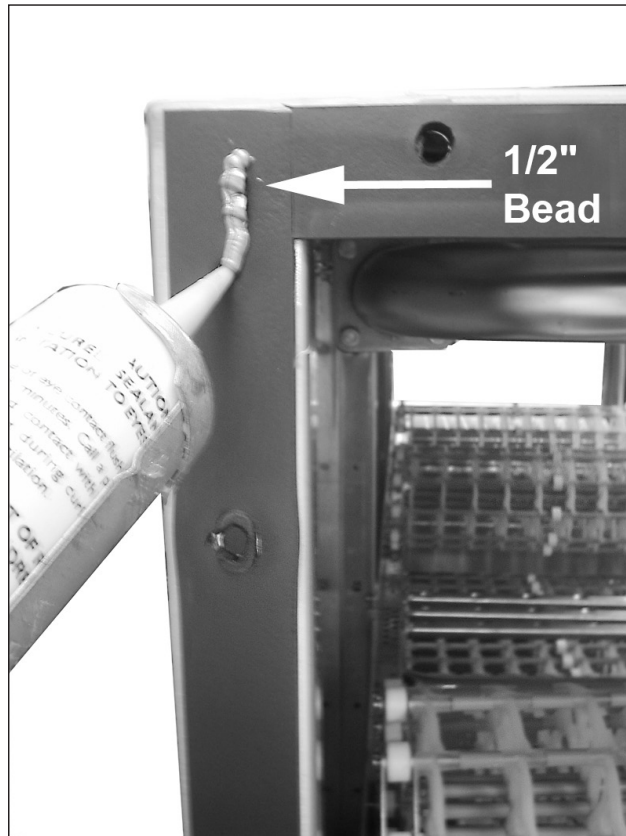


Start leveling the section with the bullet feet adjusted to a minimum height.

Installation

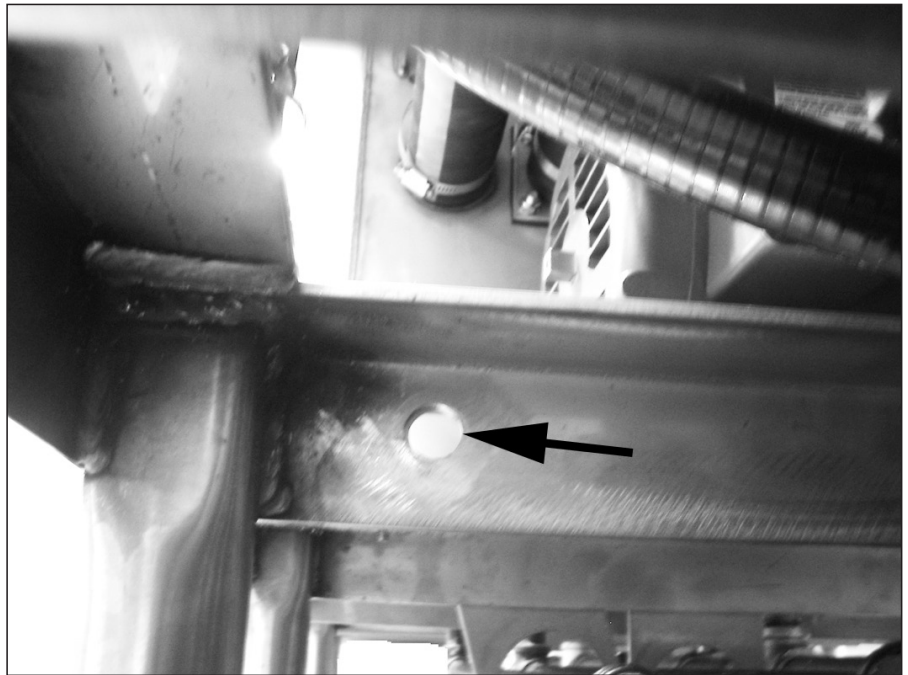
Joining the Sections

1. Apply a 1/2" bead of FOOD GRADE sealant to the foam gaskets on each section.
2. Move the next section close to the "C". Adjust the feet of this section to align the 20 bolt holes around the hood.
3. Slide the connecting hoses and clamps on drain pipes and cross-flow pipes. Do not tighten at this time.
4. Level each section side to side and front to back making sure the section connecting bolt holes align.
5. Make sure the sections are adjusted to the same height.



Installation
Joining the Sections

1. Bolt all the HOOD sections together with twenty (20), 5/16-18 X 3/4" bolts, lockwashers and nuts included in the hardware kit.
2. Tighten the hood bolts in a cross-pattern to pull the sections together.
3. Silicon sealant should squeeze out of the section joints.
4. Bolt the section bases together using three (3) 1/2-13 X 1" bolts, lockwashers, and nuts from the hardware kit.
5. Recheck the level of the assembled sections and adjust as needed to achieve a level line between the joined sections.

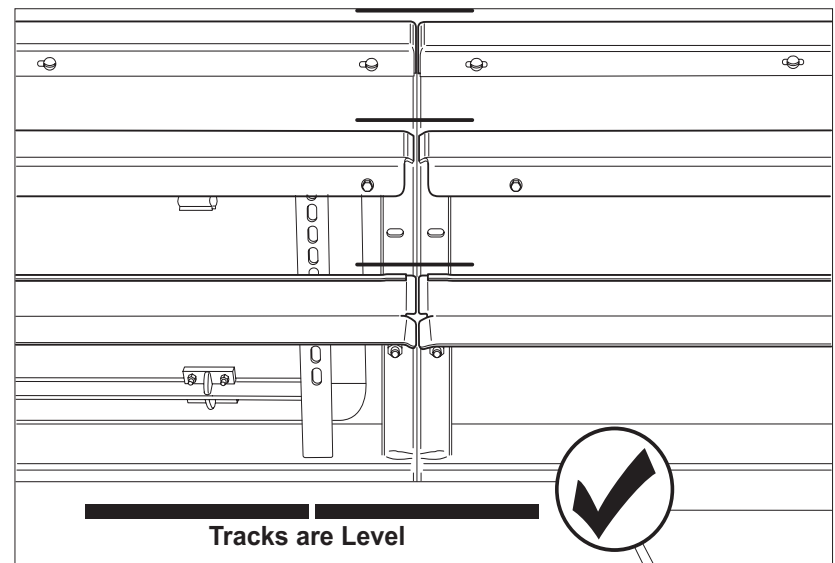
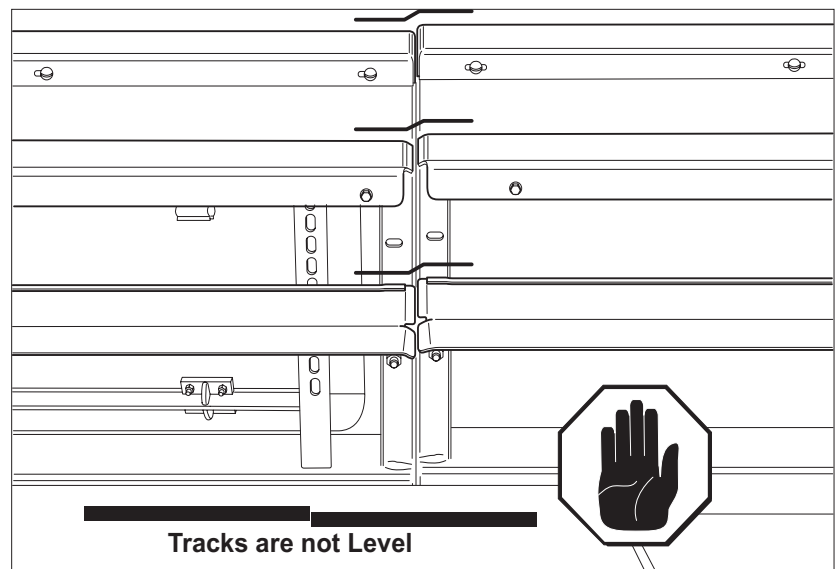


Installation

Track Alignment

The conveyor belt is supported by tracks inside each section of the dishwasher. These tracks must be level when the sections are joined. If the tracks are not level then the level of the joined sections should be re-checked and adjusted so that the tracks are level. The track mounting bolts may be loosened and a small amount of adjustment can be made. Make sure the dishwasher sections are level before adjusting the mounting of the tracks.

1. There are upper and lower conveyor belt tracks.
2. Check the alignment of both sets of tracks between each section of the dishwasher.
3. Refer to the illustrations to the right and verify the tracks are level as shown.
4. Re-level the dishwasher sections until the tracks are level.
5. Recheck the level of the conveyor belt tracks.
6. Make any final adjustments by loosening the track mounting and adjusting as necessary.
7. The tracks must be aligned and level before installing the conveyor belt.



Installation

Section Joint U-clips

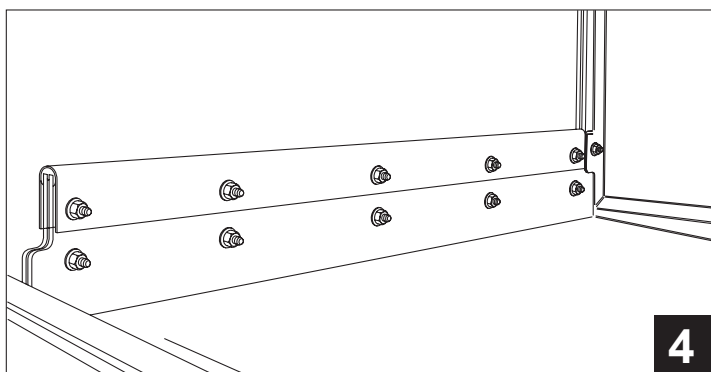
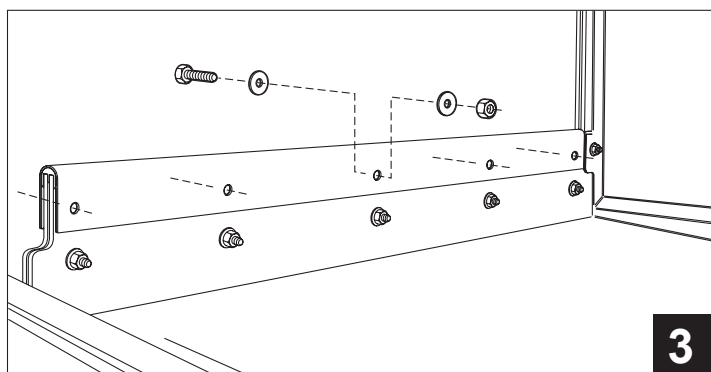
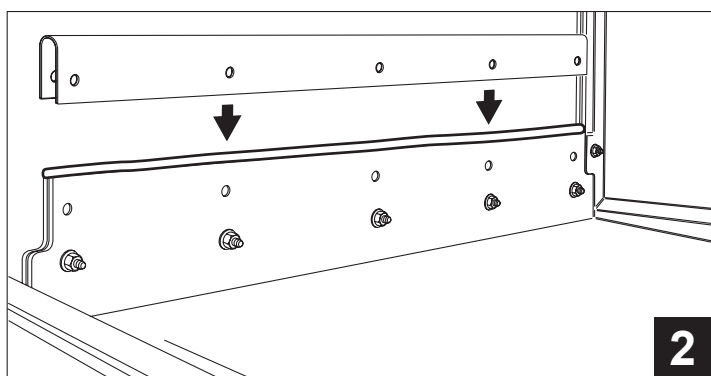
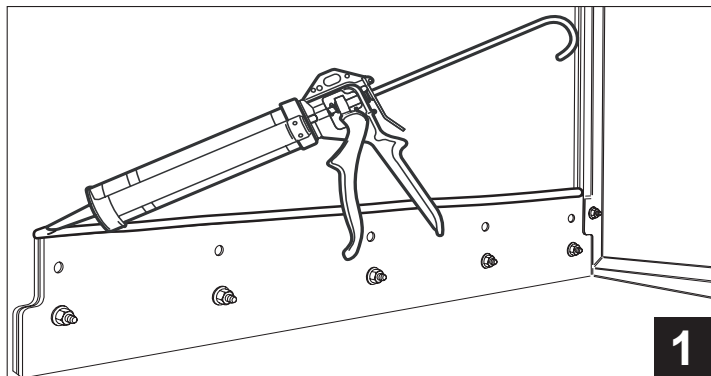
When the dishwasher sections and the tracks are level then the dishwasher section joints inside the dishwasher must be capped by a u-clip that is specifically designed to seal the joints and prevent water leaks between the dishwasher sections.

1. Make sure the dishwasher hood and base section joints have a section gasket installed.
2. If the gasket is missing, then the sections must be broken, a gasket installed, siliconed and the sections bolted and leveled again.

ATTENTION

The dishwasher section U-clips cannot be installed before the section gaskets are installed and the sections bolted together.

3. Refer to the illustrations to the right. Apply a 1/2"/12mm bead of silicon at the section seam.
4. Slide the U-clip over the seam and align the bolt holes between the seam and the U-clip.
5. Bolt the U-clip using 5/16-18 x 1" bolts, washers and locknuts included in the hardware kit.
6. Wipe any excess silicon that may have squeezed out of the U-clip joint.
7. The U-clip is P/N 329758.



Installation

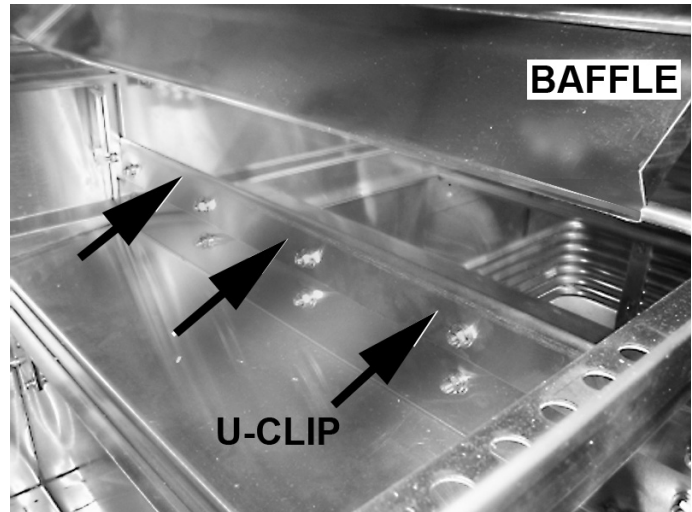
Baffles

Refer to the photos to the right and below.
The right-hand photo shows a U-clip installed on the section joint.

Above the U-clip is tank baffle which redirects water flow back into the proper tank.

Baffles are installed in the dishwasher prior to shipment.

1. Each section joint has a set of two baffles, one on each side of the section joint.
2. After the U-clips are installed on the section joint, check that the baffles are installed correctly.
3. The baffles should angle downward so that water is deflected into the tank directly below the baffle.
4. Make sure that the baffles move freely without binding.



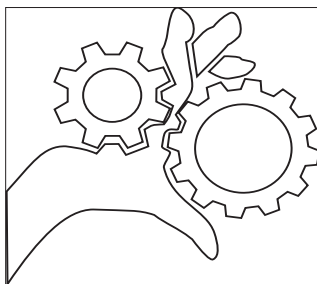
U-clip installed on section joint with baffle shown above.



Tank Baffle shown outside the dishwasher prior to installation at the factory.

Installation

Assembling the Conveyor Belt



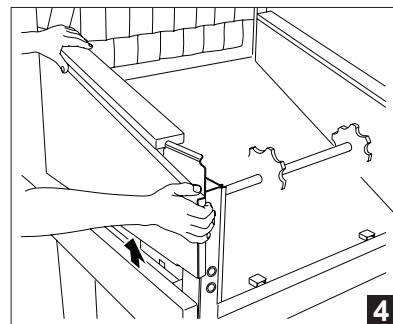
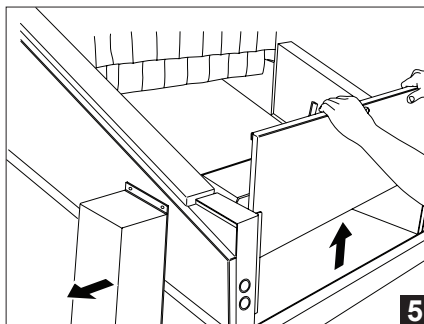
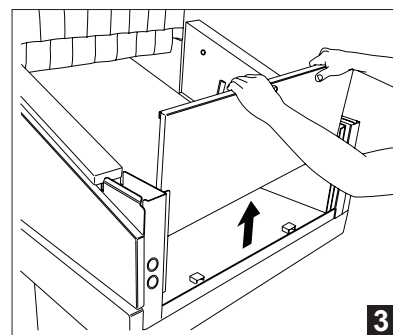
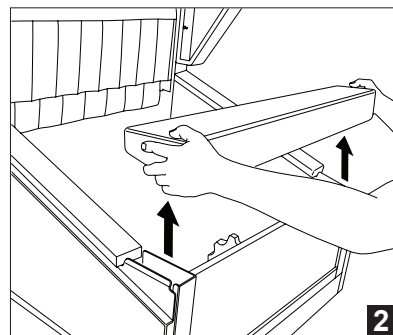
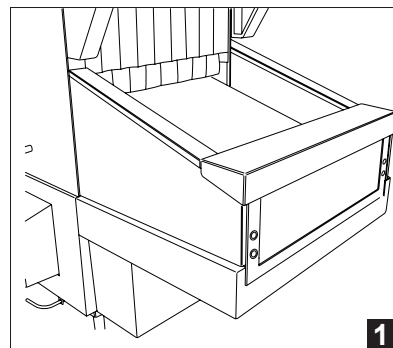
WARNING:

Moving Conveyor Parts may cause INJURY OR DEATH. Keep hands and clothing clear of the conveyor when the conveyor is moving.

USE EXTREME CAUTION WHEN THE CONVEYOR IS MOVING.

The load and the unload sections of the dishwasher are equipped with removable panels which need to be removed prior to assembling the conveyor belt.

1. Start at the unload end of the machine and note the location of the top and side panels
2. Lift the top panel straight up and off the end of load section.
3. Lift the end panel straight up. Note the guides on the sides of the hood as you lift the end panel up and off.
4. Lift the side panels of the right and left sides of the dishwasher load end.
5. Moving to the unload end of the dishwasher, lift the end panel straight up and off the end of the machine. Remove the bolts holding the rectangular cover protecting the drive gear assembly. Pull the cover off of the dishwasher.
6. Set the panels and covers aside and retain the mounting hardware.



Installation

Assembling the Conveyor Belt

The conveyor belt may be shipped separately from the dishwasher on pallets or it may be rolled up inside of the dishwasher. In either case, the installation is the same.

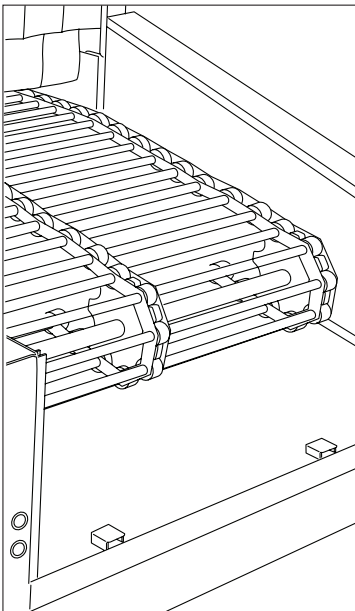
1. Start at the unload end of the machine and pull the conveyor belt around the end sprockets until approximately 1.5 feet/76.2 cm of belt rests on the upper track of the dishwasher.
2. Pull a section of belt to the next section along the upper track into the unload end.
3. Join the belt sections together by feeding a conveyor rod through the links, spacers, and rollers. Install a cotter pin on each end of the rod to secure the assembly.
4. Use an assembled rod section on the belt as a guide for the placement of the spacers, etc., continue this procedure until the conveyor belt is assembled in a complete loop.



Roll the first section of conveyor belt from the unload section toward the unload section.



Connect the conveyor belt sections with a rod, spacers, and washers included in the hardware kit.



The assembled belt should form a complete loop.

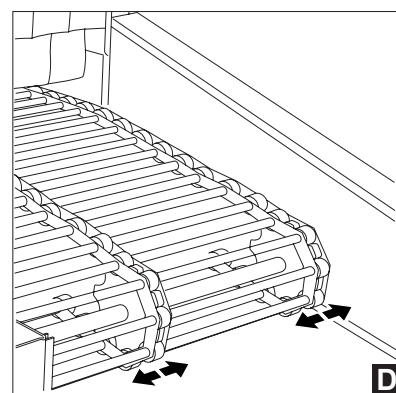
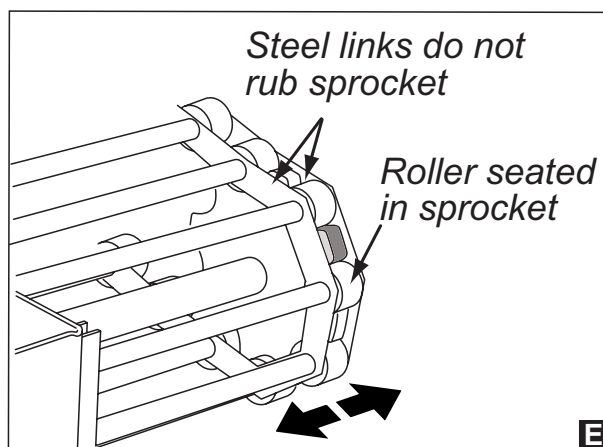
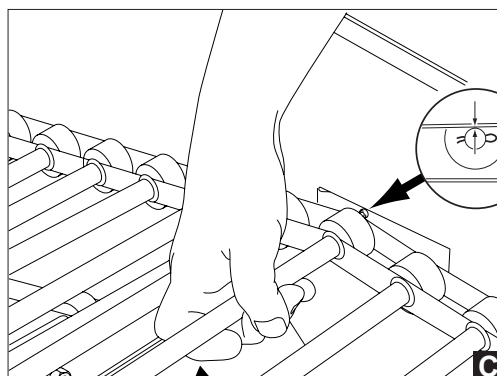
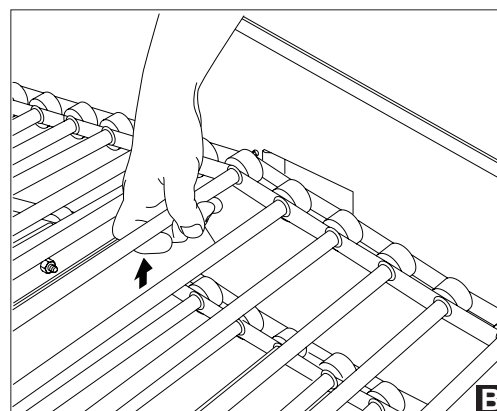
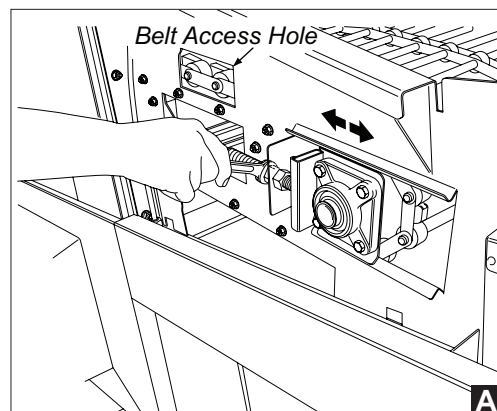
Installation

Assembling the Conveyor Belt

1. The take-up assemblies are located on either side of the load end conveyor shaft as shown in **(A)**.
2. Adjust the conveyor belt tension at the load end. Loosen the adjusting bolt locknuts then turn the adjusting bolts CW to tighten the belt.
3. Make sure the belt tension is even on both sides.
4. Check the slack of the lower portion of the belt. The lower belt must not sag.
5. Continue to adjust belt tension as you manually remove lower belt slack until the lower slack is minimized.
6. Check the belt tension by lifting the upper conveyor belt at the load end of the dishwasher as shown in **(B)**.
7. The proper belt tension is achieved when the top of the conveyor belt rods are even with the top of the belt access hole as shown in **(C)**.

DO NOT OVERTIGHTEN THE BELT.

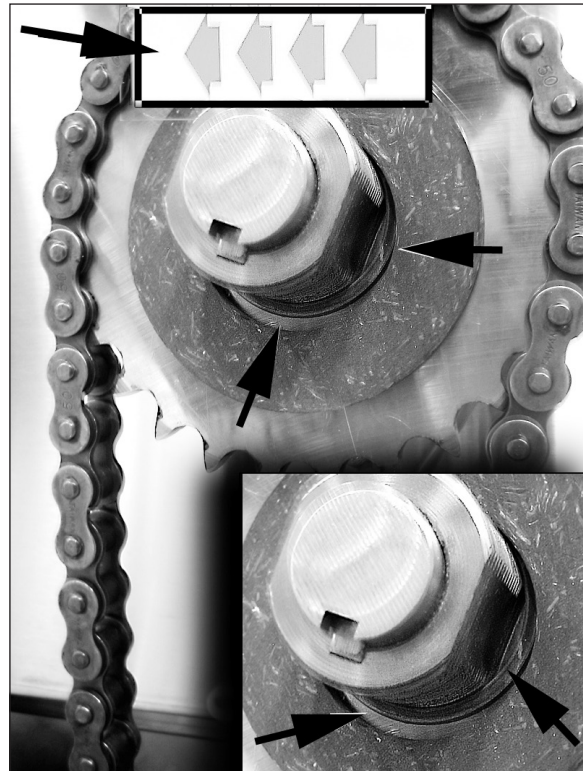
8. Tighten the adjusting bolt locknuts on each take-up assembly to hold the belt adjustment.
9. Check that the conveyor belt tracks evenly on all of the conveyor drive sprockets during operation and adjust the take-up assemblies as required as shown in **(D)**.
10. Proper tracking requires that the rollers seat evenly in the conveyor belt drive sprockets. The metal links on the conveyor belt must not rub the sides of the belt sprockets as shown in **(E)**.



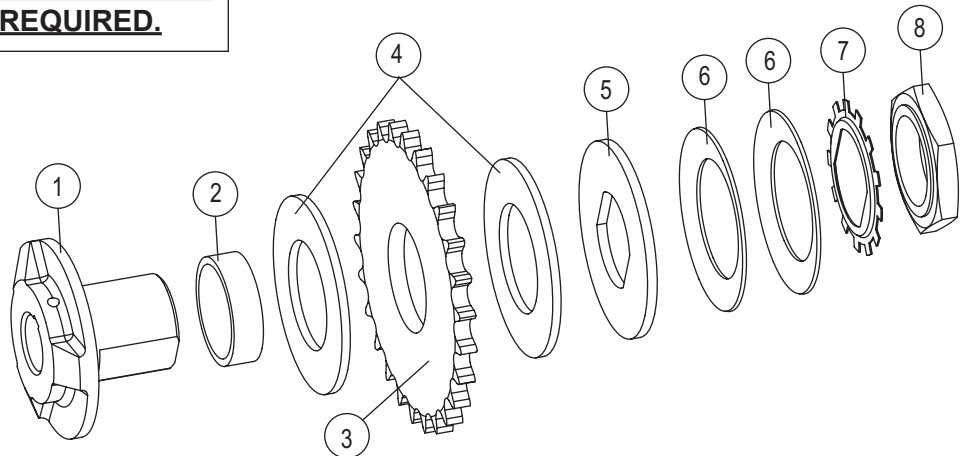
Installation

Adjusting the Conveyor Belt Clutch

1. Locate the conveyor belt drive assembly located at the unload end of the dishwasher.
2. Refer to the photos on the right and note the arrangement of the drive clutch components.
3. Locate the clutch kit included in the hardware kit and install the components as shown in the illustration below. Tighten the clutch retaining nut.
4. Proper clutch adjustment is correct if a 185lbs. person can stall the belt when safely pulling against the moving conveyor belt.
5. **NEVER LUBRICATE THE CLUTCH ASSEMBLY.**



ATTENTION
CHECK THE BELT TENSION IN 3 WEEKS
AND RE-ADJUST AS REQUIRED.



ATTENTION

The ID of first clutch disk is larger than the bore of the drive shaft.

Make sure the first disk rests on the shoulder of the drive shaft to ensure correct clutch assembly.

Item	Part No.	Description	Qty.
1	100485-1	Hub, Torque Limiter #350A	1
2	104271	Bushing, Torque #350A	1
3	108013	Sprocket, 350AG26	1
4	100485-2	Friction Disc, #350A Clutch	2
5	100485-2	Pressure Plate, #350A	1
6	100485-3	Spring Washer #350A	2
7	100485-5	Lockwasher, #350A	1
8	100485-6	Adjusting Nut, #350A	1

Installation

Inverter Conveyor Drive Motor Speed Control

CAUTION

**The Variable Frequency Drive (VFD)
is a solid-state motor control.**

**Changing the factory settings without
prior authorization by the factory will void the
warranty of the VFD and the Dishwasher.**



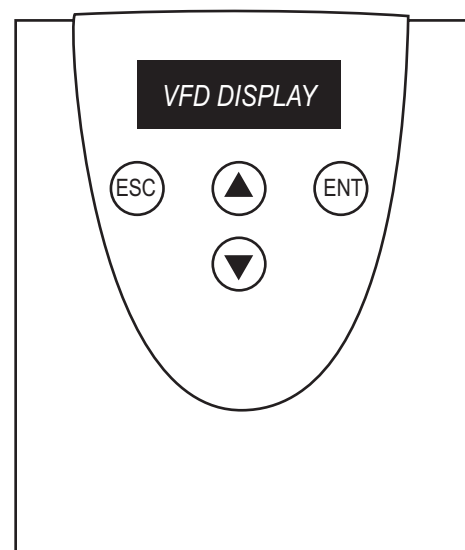
The conveyor belt speed is set at the factory to run in the three operation modes. The modes are selected by pressing a mode switch located on the top-mounted control cabinet. The modes are:

Energy Saver Mode

Normal Mode

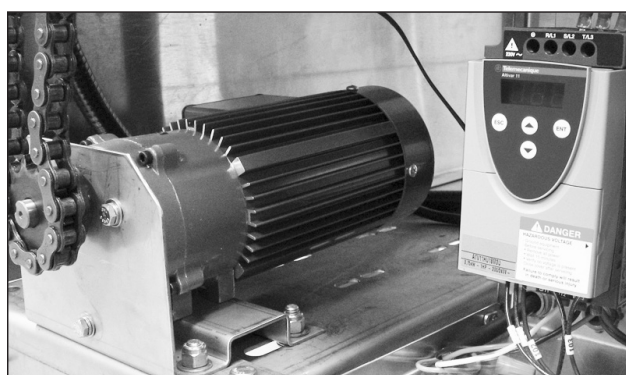
Fast Mode

When the conveyor belt is moving normally, the VFD Display will indicate a number on the display that is calibrated at the factory.



*Variable Frequency Drive (VFD)
for the Conveyor Drive Motor*

*Variable Frequency Drive (VFD)
shown with the Conveyor Drive Motor*



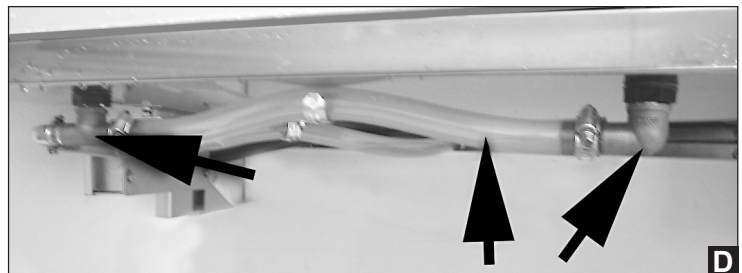
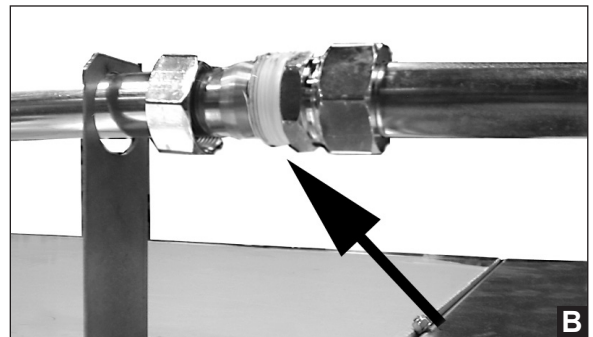
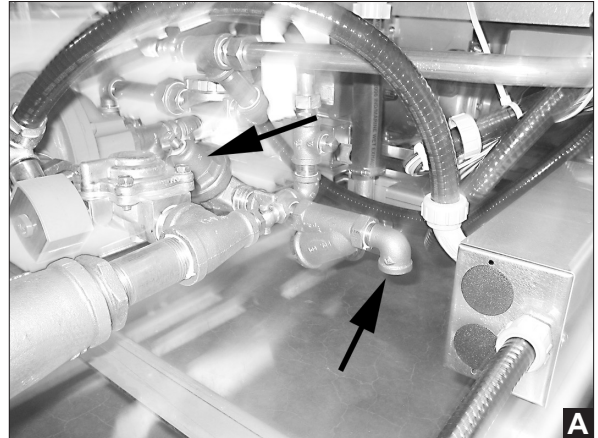
Installation

Plumbing Connections

ATTENTION

Plumbing connections should be made by qualified personnel who will follow all local plumbing, safety, and sanitary codes and regulations.

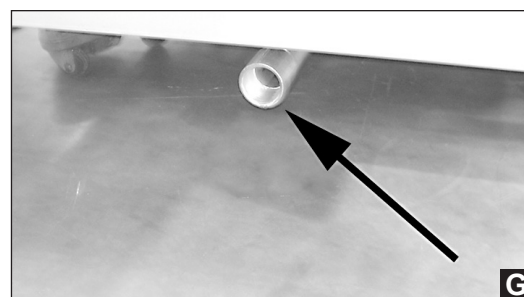
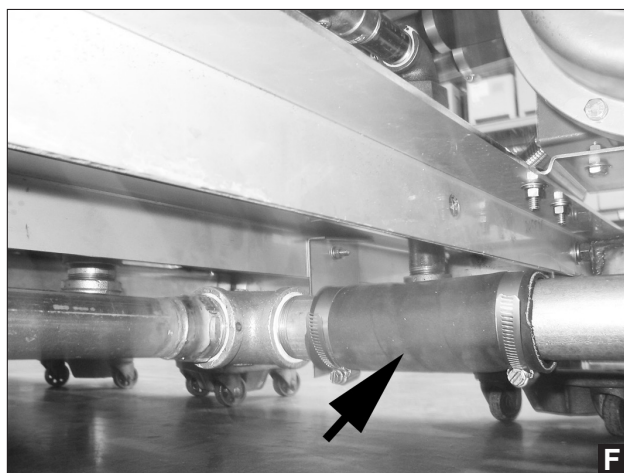
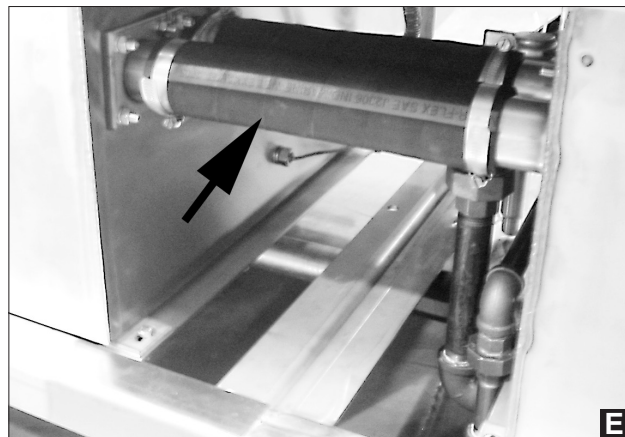
1. The specific water requirements for the installation of the dishwasher are listed on the Plumbing and Electrical Diagram (P&E) that was provided prior to the installation.
2. It is recommended that the Installation Supervisor inspects the position, level and alignment of the piping prior to making the connections.
3. The main water supply connection is located underneath the unload section of the dishwasher adjacent to the pressure regulating valve (PRV) as shown in (A).
4. The PRV must be adjusted to provide a flowing pressure of between 20-22 PSI / 138-152 kPa.
5. Tighten the dishwasher fill piping compression fittings located on the top of the dishwasher. Use Teflon tape on the threads to ensure a water-tight joint as shown in (B).
6. Remove the shipping ties that hold the fill water solenoid valve coils and mount the coils on the solenoid valve stems as shown in (C).
7. Assemble the flushing nozzle piping located on the load-end of the dishwasher making sure that the nozzles point towards the dishwasher entrance as shown in (D).



Installation

Plumbing Connections

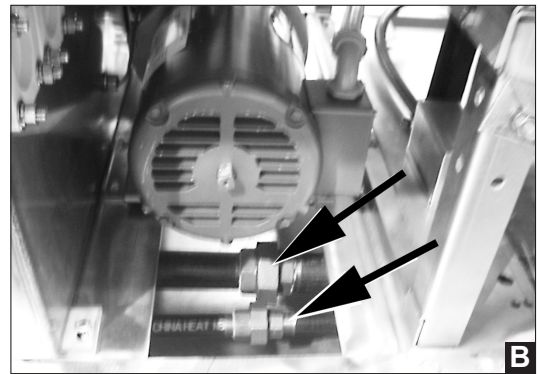
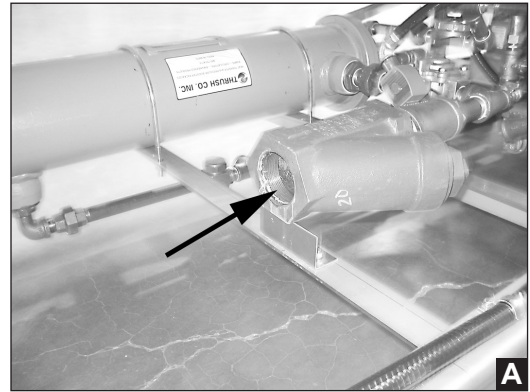
8. Connect the cross-flow piping between the tank sections using the rubber hoses supplied. Make sure that all hose clamps are tight and secure as shown in (E).
9. Make sure all drain fittings are tight then connect the drain trunk sections using the rubber hoses supplied as shown in (F).
10. Connect the dishwasher drain outlet piping located underneath the load-end of the dishwasher. The dishwasher drain line is a 2" NPT connection as shown in (G).
11. Check the water and drain connections during the initial start-up of the dishwasher to ensure that supply and drain piping does not leak.
12. The building drain system must be of sufficient size and capacity to allow the dishwasher to drain completely without restriction.
13. Make sure that the dishwasher drains properly during the initial start-up.
14. Make sure that any foreign material is removed from inside, on top of, and underneath the dishwasher when the plumbing and drain connections are complete.



Installation

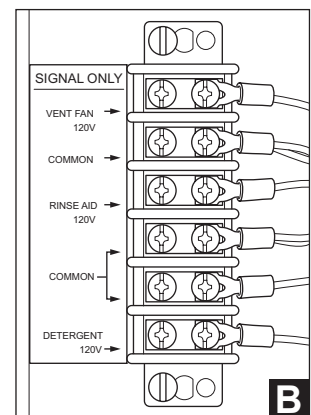
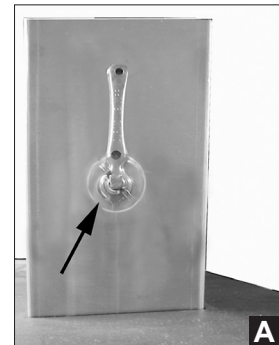
Steam Connections

1. The specific steam requirements for the installation of the dishwasher are listed on the Plumbing and Electrical Diagram (P& E) that was provided prior to the installation.
2. It is recommended that the Installation Supervisor inspects the position, level and alignment of the piping prior to making the connections.
3. The main steam supply connection is located underneath the unload section of the dishwasher as shown in (A).
4. Connect the steam supply piping and steam condensate lines (B) located between the dishwasher sections. Make sure all fittings are tight.
5. The steam condensate line may be run to a drain or to a boiler return line. If plumbing to a boiler return line make sure that there is no back-pressure on the condensate line. Connections to the building condensate return is performed by others.



Vent Connections

1. The specific venting requirements for the installation of the dishwasher are listed on the Plumbing and Electrical Diagram (P& E) that was provided prior to the installation. Vent connections to the dishwasher are performed by others.
2. Install the dishwasher vent stacks on the load and unload end of the dishwasher so that the vent handles are facing the front of the dishwasher.
3. Set the vent damper adjustment handles in the vertical position as shown in (A). This sets the vent damper in the fully open position.
4. There is a vent fan signal connection point located inside the top-mounted control cabinet to interlock the building vent system with the dishwasher operation. See (B).



NOTE:

This is a 24VAC signal only and cannot be used to power vent motors or other control circuits.

Installation

Electrical Connections



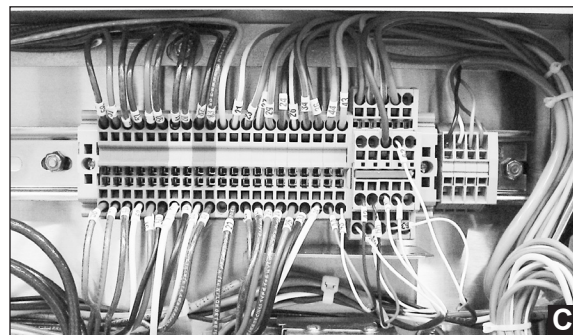
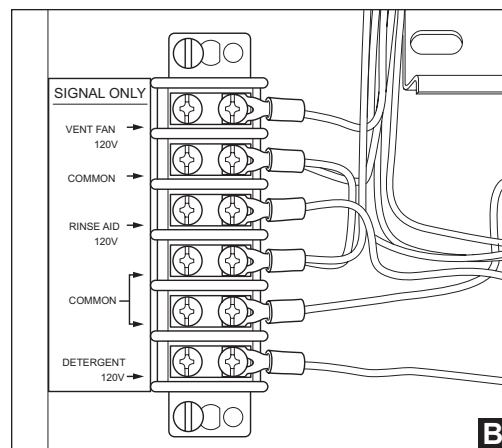
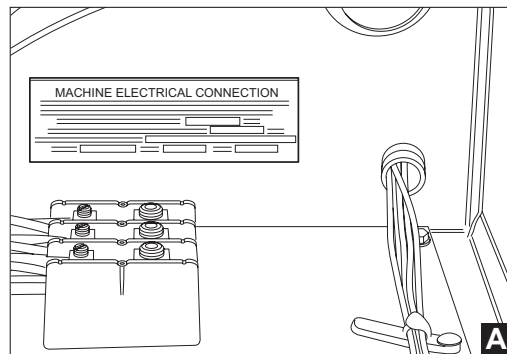
WARNING:

Electrocution or serious injury may result when working on an energized circuit.

Disconnect power at the main breaker or service disconnect switch before working on the circuit.

Lock-out and tag the breaker to indicate that work is being performed on the circuit.

1. The specific electrical requirements for the installation of the dishwasher are listed on the Plumbing and Electrical Diagram (P & E) that was provided prior to the installation.
2. The main power supply connection for the dishwasher (excluding electric booster power) is made at the main terminal block as shown in (A). The Machine Electrical Connection Data Plate is mounted adjacent to the main terminal block and contains electrical specifications for the connection.
3. A separate terminal block (B) is located inside the top-mounted control cabinet which provides signal voltages for chemical dispensing equipment or vent fan control if required.
4. The main power connection for the electric booster (Not Shown) is a separate connection and is located inside the booster control box. The box is typically installed on the base of unload section. The box can also be located on the top of the dishwasher if specified.
5. Electrical connections between dishwasher sections are made in wireway boxes (C) that are mounted on the base of each section.
6. Remove the covers of the wireway boxes and identify connecting wires and terminal blocks.
7. Unroll any flexible conduits that were disconnected from the wireway prior to shipment and re-route them into the wireway boxes.
8. Refer to the dishwasher electrical schematic and re-connect the wires between the sections using the hardware supplied.
9. Re-install the wireway box covers.



Installation

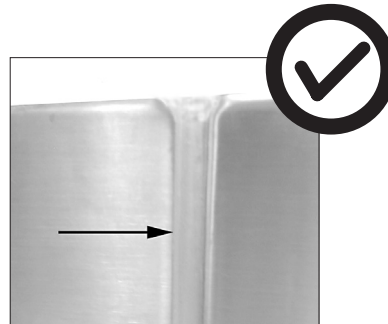
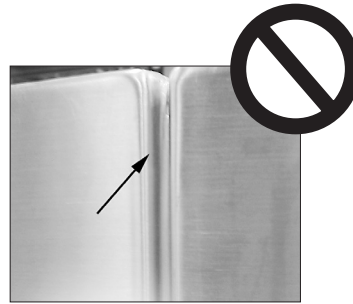
Sealing Section Joints

Machine section joints must be sealed using a food-grade silicon sealant. Several tubes of approved sealant were included in the installation hardware kit.

Study the photos on the right.

The top photo shows an incorrectly sealed joint. Note that the joint seal has a valley indicating that insufficient sealant was applied.

The bottom photo shows a correctly sealed joint. The joint seal is filled and the transition between the sections is shallow.

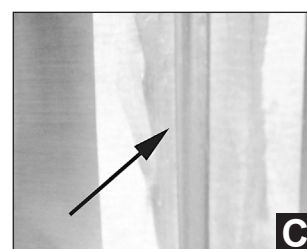
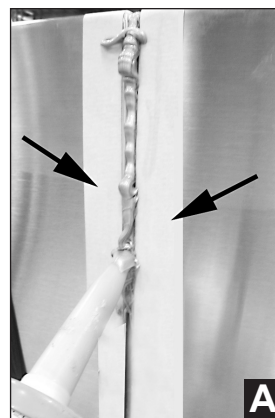


To seal the section joints:

1. Make sure the machine sections are level, all utilities and cross-connections are made and the sections are bolted together.
2. Clean the joint with isopropyl alcohol to remove dust, oil film, and other contaminants.
3. Mask the joint edges with a quick-release masking tape.
4. Apply a 1/8" bead of food-grade silicon sealant using moderate pressure on the caulking gun to ensure the sealant fills the joint.
5. Wait 1 minute for the sealant surface to firm slightly (but before a skin forms), then wipe the joint with a clean damp cloth.

Note:

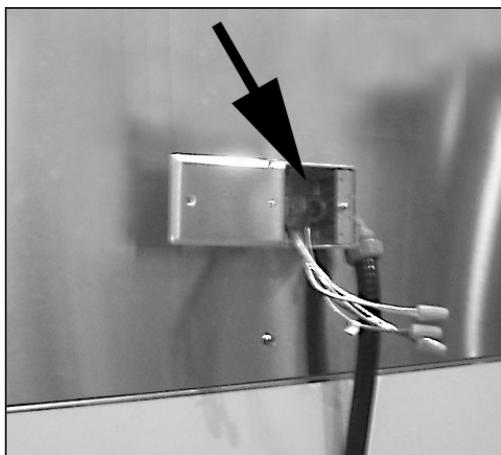
If the sealant dries longer than 1 minute, do not try to wipe the joint. Allow the sealant 30 minutes to dry, then cut the sealant out of the joint and reseal the joint.



6. Wait 10-seconds after wiping the joint, then remove the masking tape.
7. The joints can be cleaned and trimmed in about 1 hour.

Optional Blower-Dryer Installation

FOR COMPLETE BLOWER-DRYER INSTALLATION INSTRUCTIONS
REFER TO THE BLOWER-DRYER SERVICE MANUAL, P/N 114316,
SHIPPED WITH THE BLOWER-DRYER ASSEMBLY



1. The blower dryer comes in electric or steam.
2. It ships on a separate pallet. The vent cowl and mounting hardware are included in the accessories box and hardware kit.
3. Lift the blower dryer off the pallet with a forklift and place on the end of the unload section.
4. If a forklift is not available, then four (4) men are needed to lift and install the unit manually.
5. Bolt the blower dryer in place using the 5/16-18 X 3/4" bolts, flat washers, and lock washers from the hardware kit.
6. Fasten the vent cowl on the discharge end of the blower dryer using the 1/4-20 plain nuts, flat washers, and lock washers from the hardware kit.
7. Connect the flex-tite conduit to the junction box located at the rear of the dishwasher.
8. Match wire numbers in the junction box and connect with wire nuts.
9. Close the junction box.
10. Install the cowl to the end of the blower dryer.

Installation

Check List

Perform the following checks and adjustments before placing the machine into service.

1. Check the interior of the machine and remove any foreign material.
2. Check the scrap screens, pump strainers and scrap baskets are properly installed.
3. Check the exterior of the machine — make sure that the conveyor belt is free of tape and foreign material.
4. Vent stacks must be placed on the hood with vent handles facing the front of the dishwasher
5. Open the water supply valves. Check for leaks and take corrective action as required.
6. Open the steam supply valves (if applicable). Check for leaks and take corrective action if required.
7. Turn the main power on at the breaker panel or fused disconnect switch.
8. Flip the Power Switch on the front of the Control Cabinet to the "ON" position.
The machine will begin to fill with water. The water will shut off automatically.
9. Check for leaks and take corrective action if required.
10. Allow sufficient time for the tank heat to reach operating temperature.
then check that the digital temperature meters indicate the proper temperature readings.
11. Move the conveyor shut-off shelf located at the end of the unload section toward the load end of the machine. This resets the automatic conveyor stop system.
12. Press each mode switch and then the stop switch in succession to check conveyor belt drive operation.
13. Open each door to ensure the door safety switches shut the machine off.
14. Operate the conveyor shut-off assembly to ensure the conveyor stops when operated.
15. Check the direction of rotation of the conveyor belt by observing the direction arrow decal on the large conveyor drive sprocket. The sprocket is located on the side of the unload section.
If rotation direction is incorrect, reverse wires L1 and L2 on the disconnect switch side of the main electrical connection terminal block located inside the control cabinet.
16. Check the conveyor drive clutch adjustment.
The clutch should be CHECKED AND ADJUSTED MONTHLY.
17. Check the alignment of the conveyor belt.
18. Check the Energy Sentinel (idle pump shut-off) by placing a tray or dish on the moving conveyor belt. The pumps should start when the object breaks the infrared beam on the entrance end of the dishwasher.
19. Make sure the panels are properly installed. The panels are marked with location numbers and should match the numbers located on the dishwasher.
20. Make sure the curtains are properly installed.
21. Turn the dishwasher power switch to the OFF position.
22. Open the dishwasher drains and make sure the building drain system handles the drain flow.
23. Make sure the dish room is neat and clean.

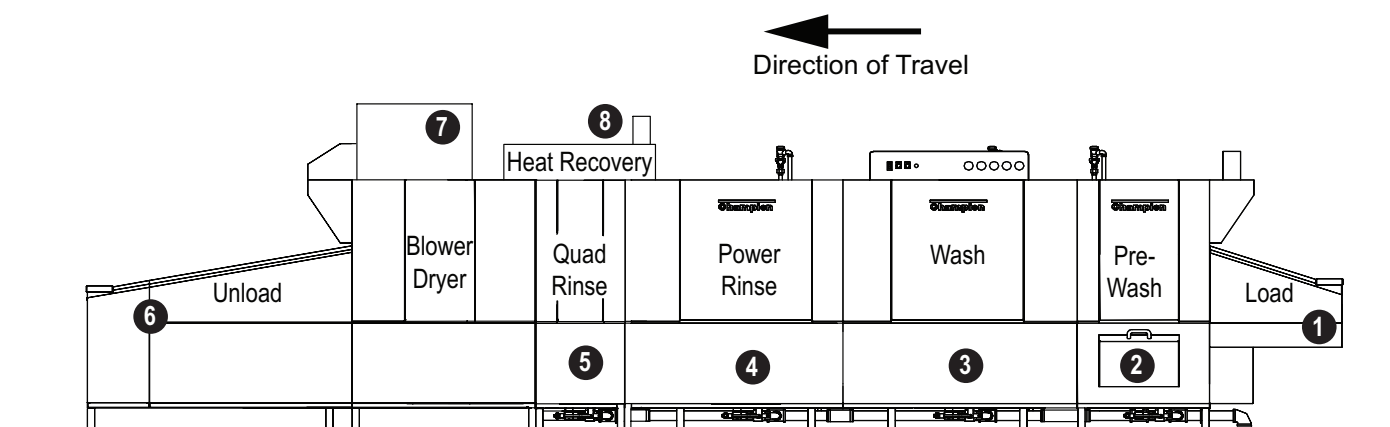
Operation

Introduction

The flight-type upright conveyor dishwasher consists of a series of wash tanks designed to clean a variety of soiled ware moving through the tanks on a conveyor belt. Refer to the illustration below for a general description of the machine.

Dishwasher Tanks and Options:

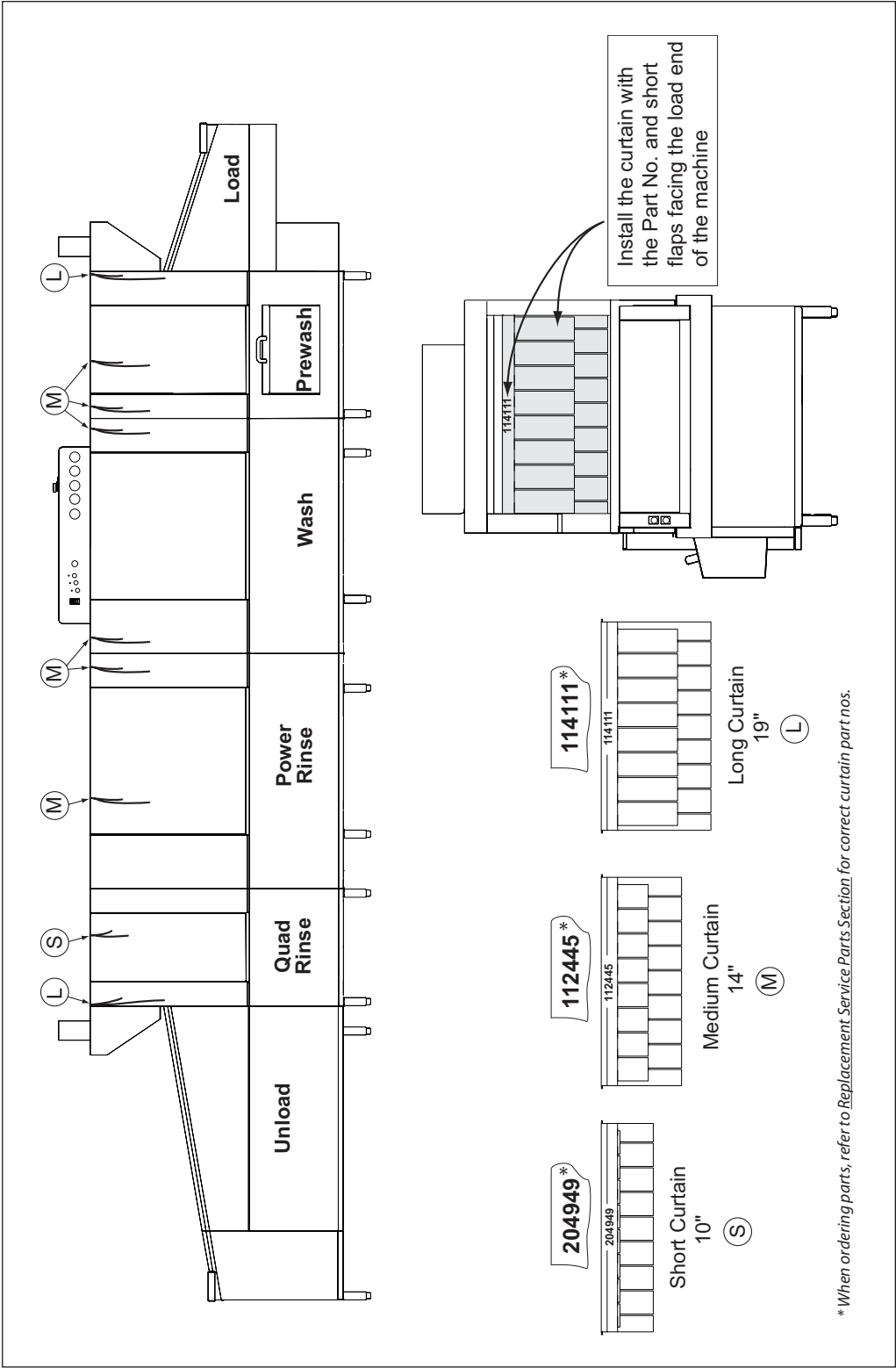
1. Load - Soiled ware is sorted and loaded on the conveyor belt. Wares enter the dishwasher.
2. Prewash Tank - Soiled wares are flushed to remove large particles and to loosen heavy food-soils.
3. Wash Tank - Wares are washed with hot water and detergent.
4. Power Rinse Tank - Wares are rinsed with hot water to remove detergent and any remaining food soils.
5. Quad Rinse - Auxiliary rinse begins the hot water sanitization process then the final rinse completes the hot water sanitization process.
6. Unload - Clean wares exit the dishwasher and flash dry on the conveyor belt.
7. Blower Dryer Option - Hot air is forced over wares to speed drying.
8. Heat Recovery Option - Hot air exhaust is recycled to raise the incoming water temperature for the final rinse booster reducing energy costs.



Operation

Curtain Placement Diagram

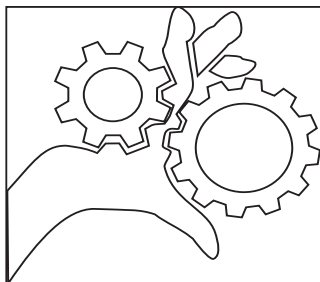
Proper curtain placement is essential for the proper operation of the dishwasher. Refer to the diagram below and make sure the curtains are installed correctly before operating the machine.



Operation

Operation Summary

The steps below summarize the basic operation of the dishwasher.
Detailed explanations follow this summary.



WARNING:

Moving Conveyor Parts may cause INJURY OR DEATH.
Keep hands and clothing clear of the conveyor when the conveyor is moving.

USE EXTREME CAUTION WHEN THE CONVEYOR IS MOVING.

1. Check the chemical connections and chemical containers are installed and ready for operation, (Consult your chemical supplier for instructions).
2. Check the interior of the dishwasher for foreign objects and remove.
3. Turn on the water supply to the dishwasher.
4. Turn on the main power switch at the building service disconnect switch.
5. Close all drains.
6. Make sure floats, overflows, drain screens, and pump intake screens are clean and in place.
7. Make sure all spray arm assemblies are in place and secure.
8. Make sure curtains are properly installed.
9. Make sure all doors are closed.
10. Make sure the conveyor shut-off shelf is in the ON position.
11. Push the dishwasher main power switch to the ON position.
- The machine will begin to fill with water.
12. If equipped, turn the *Optional* Blower Dryer Switch ON.
- The blower dryer runs whenever the pumps run.
13. Monitor the digital temperature gauges for the proper tank temperature readings:

Prewash	less than 160°F
Wash	minimum of 150°F
Rinse	minimum of 160°F
Auxiliary	minimum of 160°F
Final Rinse	INDICATES OFF when final rinse is not running
	minimum of 180°F when final rinse is running

Operation

Summary of Operation

The steps below explain the basic operation of the dishwasher. Detailed instructions follow this summary.

14. When wash tank temperature readings are correct then push the NORMAL mode selector switch.
 - The green LED will illuminate and the conveyor will start.Select the FAST mode selector switch.
 - The Fast LED will illuminate and the conveyor speed will increase.
15. Scrap and pre-rinse wares, sort and place on the conveyor belt to wash. When the wares break the infrared beam at the entrance of the wash tunnel:
 - The wash pumps run.
 - If equipped, the optional blower dryer runs.
 - If equipped, the optional Heat Recovery Unit runs.

NOTE: The dishwasher will run automatically as long as wares break the infrared beam. The automatic time cycle ends when the last item placed on the belt has been washed, sanitized and exited the machine.

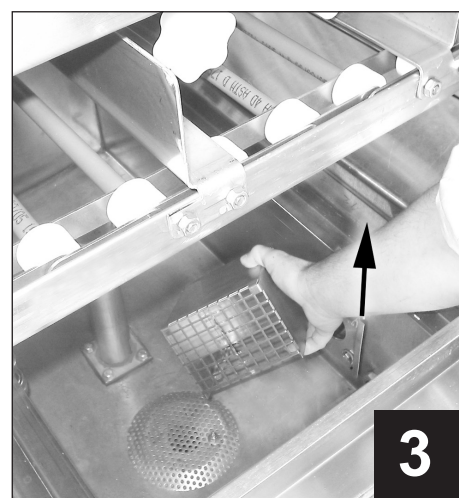
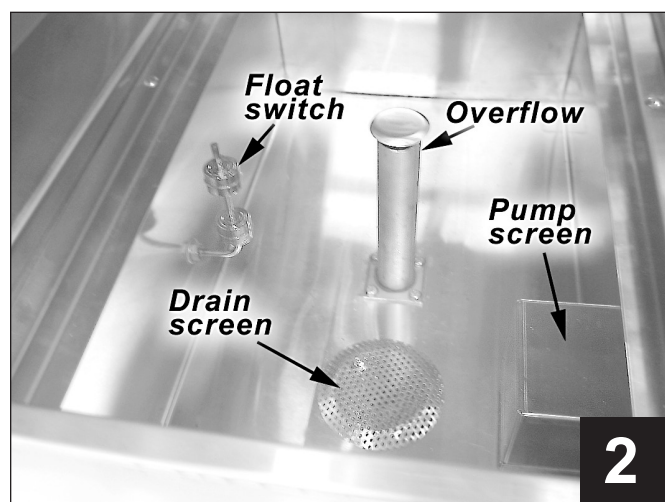
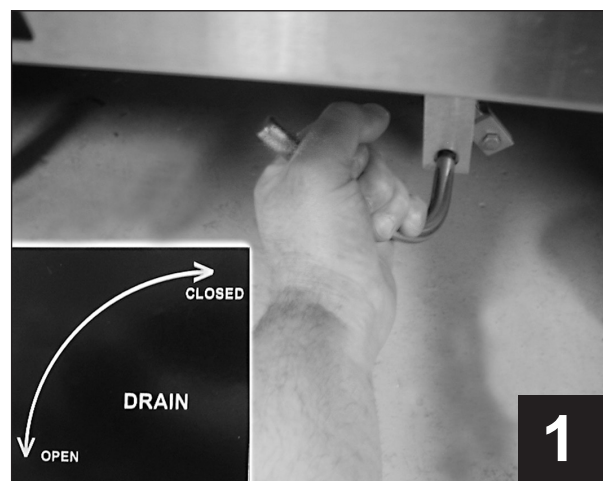
16. Wares move on the conveyor belt through the wash tanks and the final rinse section for sanitizing. The blower dryer aids the drying of the wares. The heat recovery unit captures residual heat from the dishwasher reducing energy costs.
17. Clean wares exit the dishwasher. If wares touch the conveyor shut-off shelf:
 - The automatic timed cycle pauses.
 - The conveyor belt stops.
 - The blower dryer operates for 30 additional seconds and stops.
 - The wash pumps stop.
18. Clear the belt area of wares and return the conveyor shut-off shelf to the ON position.
 - The automatic timed cycle resumes.
 - The conveyor belt runs.
 - The wash pumps run.
 - The blower dryer runs.
 - The heat recovery unit runs.
19. When the last item placed on the belt exits the machine:
 - Remove the item.
 - The pumps automatically stop.
 - The blower dryer stops after running 30 more seconds.
 - The heat recovery unit stops.
 - The conveyor belt continues to run.

NOTE: The machine operation will stop whenever the STOP button on the main control cabinet or a remote stop/start station is pressed. Operation will resume when the remote start button is pressed or a Mode Switch on the control cabinet is pressed.

The dishwasher conveyor, pumps, and blower dryer turn off whenever a door is opened. Push a start button or mode switch to resume operation.

Operation**Checking Drains, Floats, Overflows, and Pump Intake Screens**

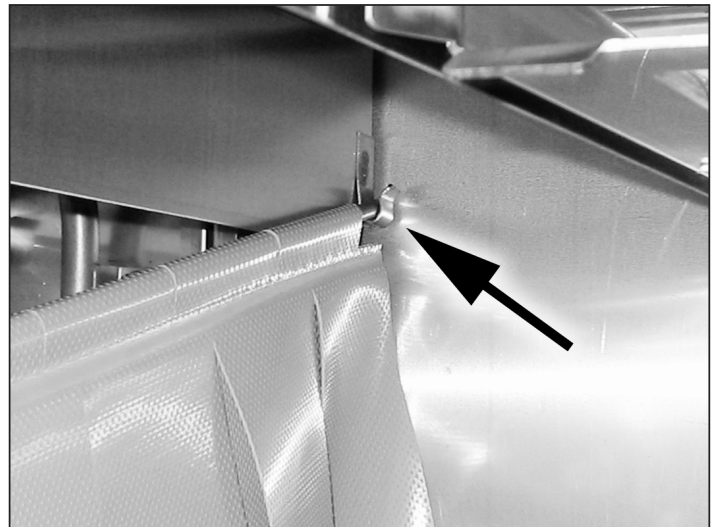
1. Close all drains.
2. Make sure floats, overflows, drain screens, and pump intake screens are clean and in place.
3. The pump intake screens are removed by sliding them up and out. Make sure they are in place and secure.
4. Inspect the bottom of the dishwasher tanks to ensure they are clear of foreign objects.



Operation

Installing Curtains

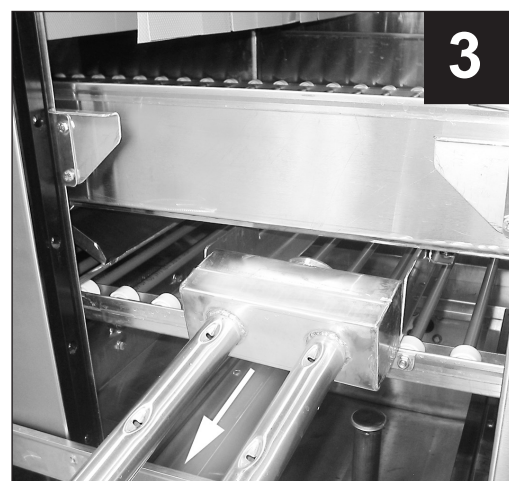
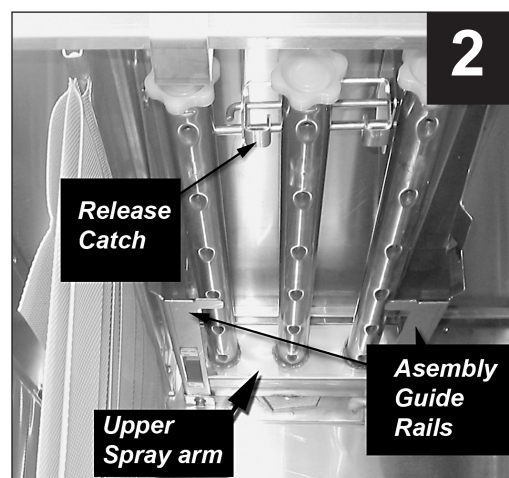
1. Place the curtains in the dishwasher making sure the short flaps face the load end of the machine.
2. Locate the curtain hooks in each section.
3. Place the curtain rod in the rear hook, then lift the opposite end of the curtain rod and place it in the front hook.
4. Place the 19" long curtains at each end of the dishwasher.
5. Place the 14" center curtains in each section.
6. Place the 10" final rinse curtain between the final rinse and auxiliary rinse pipes.



Operation

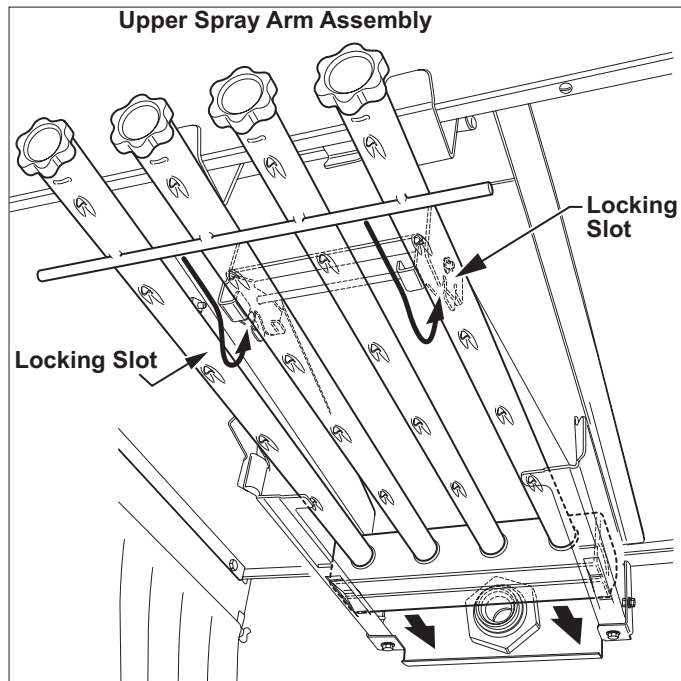
Installing Spray Arm Assemblies

1. Check the upper and lower wash arm manifold o-rings to make sure they are in place and in good condition.
2. Install the upper wash arm assemblies.
3. The auxiliary rinse section is equipped with an upper and lower rinse arm.
4. Install the lower wash arm assemblies.
5. Make sure all wash arm assemblies are locked in place.

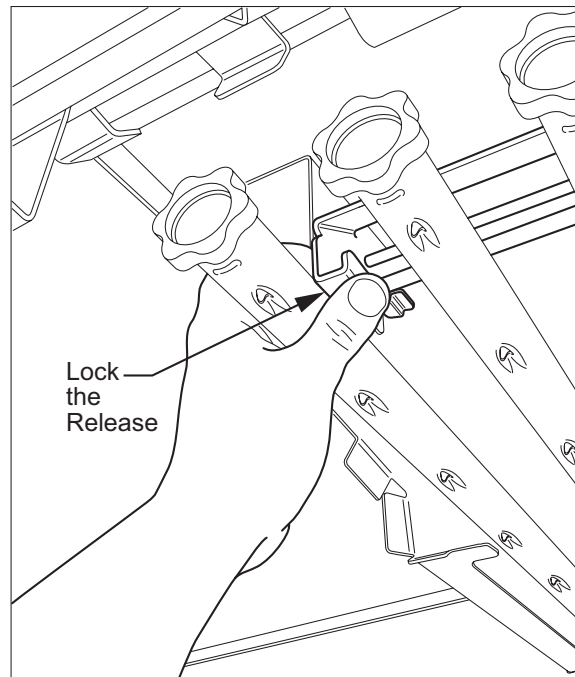


Operation

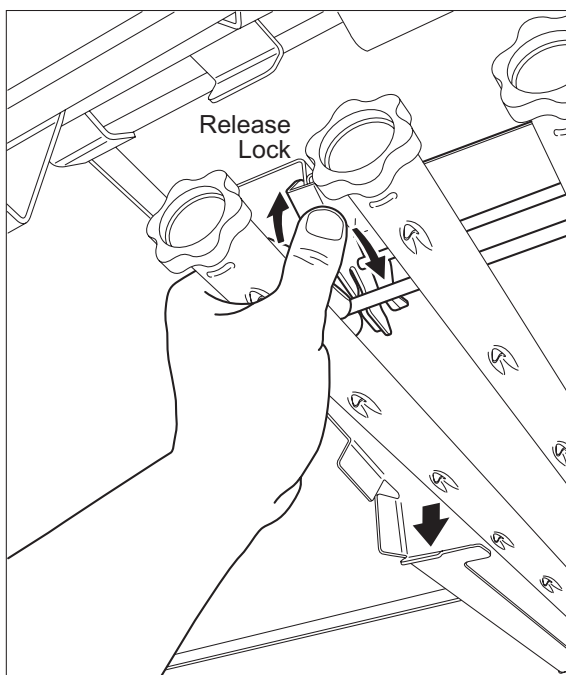
Installing Spray Arm Assemblies (continued)



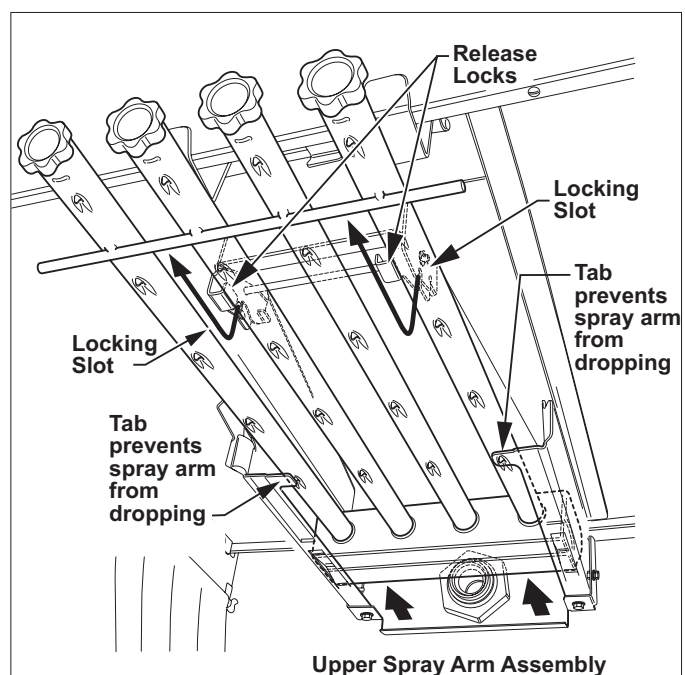
Push the Upper spray arm assembly into place.



Push the spray arm release down to lock the spray arm assembly.



Push the release up to unlock the spray arm assembly.



Pull the spray arm assembly out of the dishwasher.

Operation*Installing Spray Arm Assemblies Auxiliary Rinse Spray Pipes*

There are 2 removable auxiliary rinse spray pipes in the auxiliary rinse section.

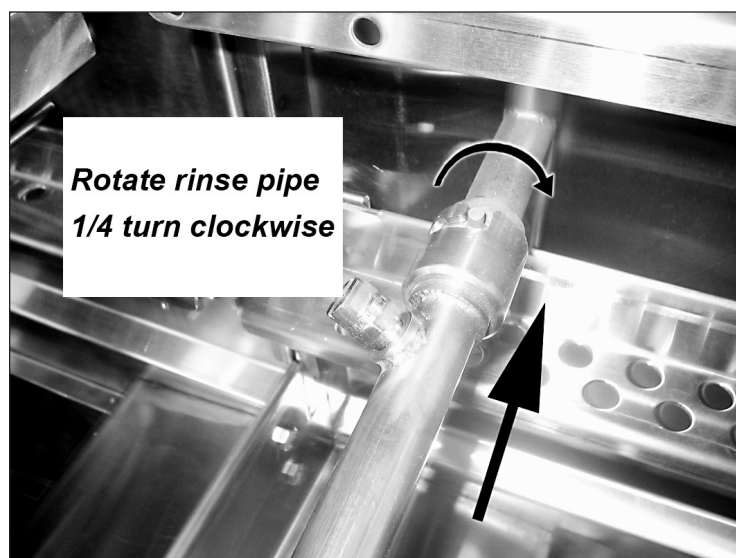
1. Make sure the upper and lower auxiliary rinse spray pipe gaskets are in place. The square-shaped pipe gasket is installed first and the round o-ring second.
2. Position the spray pipe so the rinse nozzles point toward 10 o'clock.
3. Push the rinse pipe forward.
4. Turn the auxiliary rinse pipe clockwise 1/4 turn to lock it in place.

Note:

The final rinse pipes are permanently installed and do not require assembly.



The square-shaped gasket is installed first and the round o-ring is installed second.



Push the auxiliary rinse arm forward, then rotate the arm clockwise 1/4 turn to lock it in place.

Operation

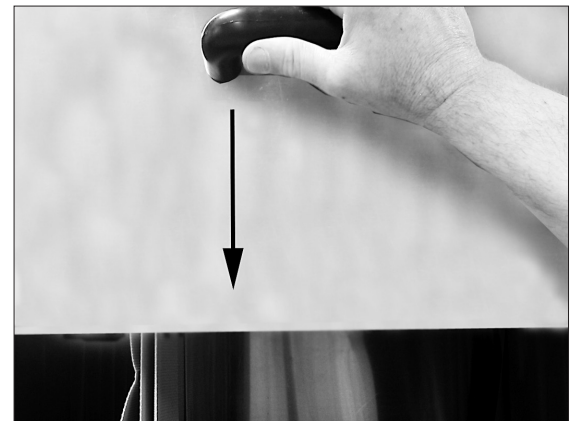
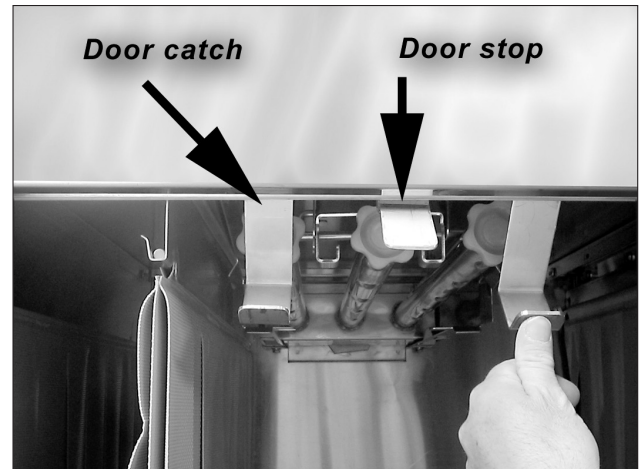
Opening and Closing Doors:

Standard Doors

1. Lift the door up, the door catch will engage and hold the door up.
2. Slowly lower the door. The door catch engages and holds the door up.
3. Carefully push the door catch back and lower the door

Split Doors

4. Lift the upper door until the door catch engages and holds the door in place.
5. Lift the lower door until the lower door catch engages and holds the lower door up and in front of the upper door.
6. Release the lower door catch and slide the lower door down.
7. Release upper door catch and slide the upper door down.
8. Release the upper door safety stop and slide the upper door closed.



Standard Door



Upper Door Catch



Lower Door Catch



Upper Door Safety Stop



Split Doors

Operation***Removing Scrap Screens and Scrap Basket:***

1. The scrap screens and the scrap basket are removable and should be cleaned periodically during normal operation and at the end-of-the day or after 2-hours of continuous operation.
2. The scrap bucket and the associated scrap basket are optional equipment and may not be installed on the dishwasher.
3. Scrap screens and scrap baskets should be removed level to prevent food-soils from falling into the machine during removable.
4. Open the dishwasher tank door.
5. Remove the scrap bucket cover and hang the cover on the front of the scrap bucket.
6. Tilt the back of the scrap screen slightly up to clear the rear screen catch.
7. Pull the scrap screen forward and out of the dishwasher.
8. Lift the scrap basket up and out of the machine.
9. Re-assemble in reverse order.
10. Make sure the scrap screen overlaps the scrap basket edge to ensure food-soils flow into the scrap basket.



Operation

Control Panel Operation



The top-mounted control panel contains the Power ON/OFF switch, mode selector switches and indicator lights, stop switch and digital display temperature meters. The function of these controls are:

A Power Switch -

Turns power On and Off.

B Mode Switches and Indicators

Changes the conveyor speed and the wash system for 3 modes of operation:

- Energy Saver Mode
- Normal Mode
- Fast Mode

C Stop Switch

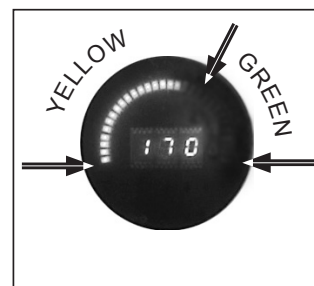
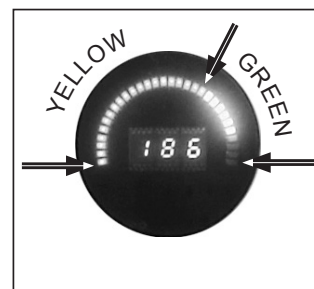
Stops the conveyor.

D Digital Temperature Display Meters -

Displays the temperature in each wash tank and the temperature of the final rinse water.

The wash tanks and the final rinse temperatures are numerically displayed and a colored bar around the numbers creates a visual indication of the temperature.

1. When the color of the bar is yellow and green then the water temperature is at or above the minimum temperature required to operate the machine.
2. When the color of the bar is yellow then the water temperature is below the minimum temperature required to operate the machine. Wait until the temperature has reached the proper operating temperature.



Operation

Control Panel Mode Selection

Control Switches are located on the front of the top-mounted control cabinet.

The operator can preset a mode of operation or change the preset mode while the belt is moving.

1. Power Switch
2. Energy Saver Mode Selector Switch
3. Energy Saver Mode Indicator Light
4. Normal Mode Selector Switch
5. Normal Mode Indicator Light
6. Fast Mode Selector Switch
7. Fast Mode Indicator Light
8. Conveyor Stop Switch



Power Switch is ON, no conveyor speed is selected.

To operate the dishwasher in the Energy Saver mode:

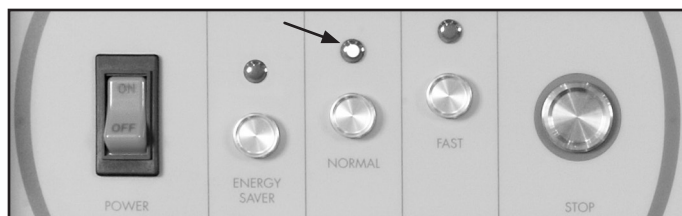
1. Push the Energy Saver Mode Selector Switch.
2. The Energy Saver Indicator will illuminate.
3. The conveyor belt will run.
4. Push the Stop Switch.
5. The conveyor belt will stop.
6. The Energy Saver Mode Indicator remains illuminated.



Power Switch is ON, Energy Saver Mode is selected.

To operate the dishwasher in the Normal mode:

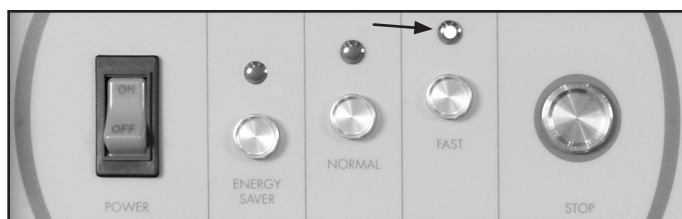
1. Push the Normal Mode Selector Switch.
2. The Energy Saver Mode Indicator will go out.
3. The Normal Mode Indicator will illuminate.
4. The conveyor belt will run.
5. Push the Stop Switch.
6. The conveyor belt will stop.
7. The Normal Mode Indicator remains illuminated.



Power Switch is ON, Normal Mode is selected.

To operate the dishwasher in the Fast mode:

1. Push the Fast Speed Selector Switch.
2. The Normal Mode Indicator will go out.
3. The Fast Mode Indicator will illuminate.
4. The conveyor belt will run.
5. Push the Stop Switch.
6. The conveyor belt will stop.
7. The Fast Mode Indicator remains illuminated.



Power Switch is ON, Fast Mode is selected.

Note: Push the Power Switch OFF and all Mode Indicator Lights go out.
Push the Power Switch ON, then push a Mode Selector Switch to begin operation.

Operation

Control Panel Digital Temperature Display

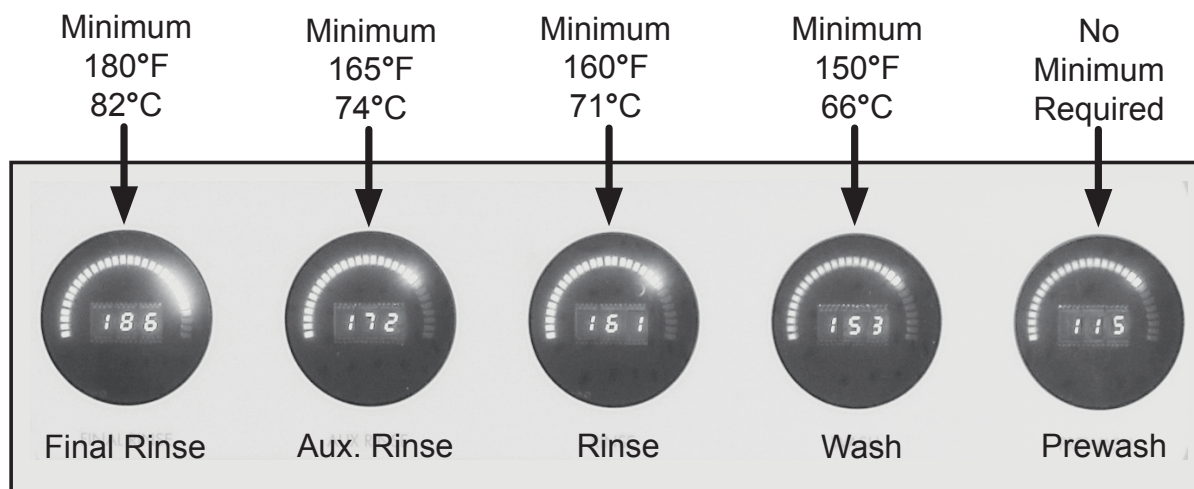


*Right-to-Left (R-L)
Operation Shown*

Digital Temperature Display Meters

The wash tanks, auxiliary rinse, and final rinse water temperatures are displayed on digital displays located on the right-side of the control panel. The displays are labeled according to the tank or rinse water section that is being monitored. The illustrations above and below show the arrangement for a Right-to-Left dishwasher. The arrangement would be reversed for a Left-to-Right machine.

The minimum temperatures shown below must be maintained when the dishwasher is washing wares. A longer wait time or corrective measures should be taken immediately to maintain the temperatures.



ATTENTION

The temperature displays must be checked repeatedly whenever the wash pumps are running and wares are being washed to make sure that the proper temperatures are being maintained.

Operation

Remote Start/Stop Stations

When the conveyor belt is moving the operator can stop the belt without using the switches on the control cabinet. The standard Start/Stop switch station located on the load-end of the dishwasher. An optional station is available as an option.

To operate the Start/Stop station:

1. Push the Stop switch. The conveyor belt will stop moving.
2. The timed cycle will pause.
3. Push the Start switch and the conveyor belt will run. The timed cycle will resume where it left off.



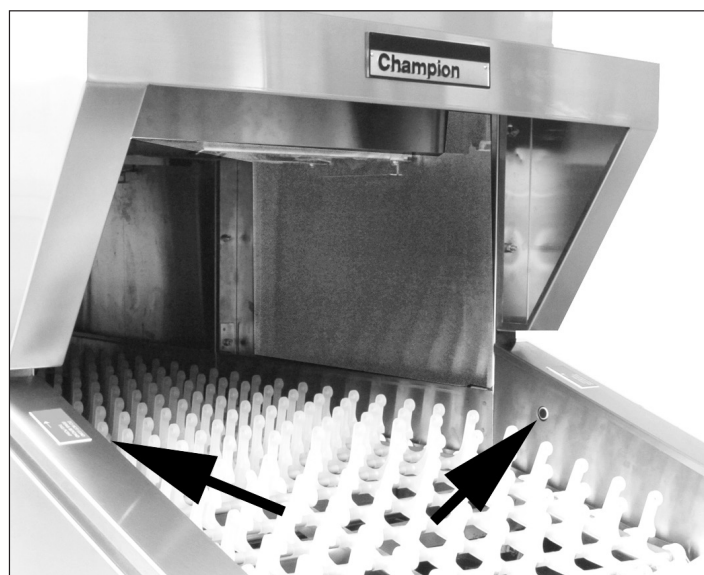
A Remote Start/Stop Station is located on the load-end of the dishwasher.

Electric-Eyes and Idle Pump Start

The wash pumps start automatically when wares that are placed on the conveyor belt pass through a set of electric eyes that are mounted on the load-end of the dishwasher. The electric eyes create an infrared beam across the belt which, when blocked by wares, start the wash pumps (see the photo to the right).

To start the wash pumps using the electric eyes:

1. Place wares on the belt.
2. Start the conveyor belt from the control panel or the Start/Stop station.
3. Continuing to place wares on the conveyor belt will activate the electric eyes and keep the wash pumps running until wares are no longer placed on the conveyor belt.



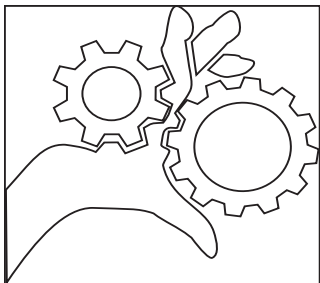
Note:

The wash pumps operate on a timed cycle that will automatically stop the wash pumps when the wares have moved through the machine, are sanitized in the final rinse, and then exit the machine.

It is important that the electric eyes be cleaned regularly to prevent soils from obstructing the infrared beam. Clean the electric eyes with a mild detergent and a soft cloth. Do not use a scouring pad.

Operation

Conveyor Shut-off Shelf



WARNING:

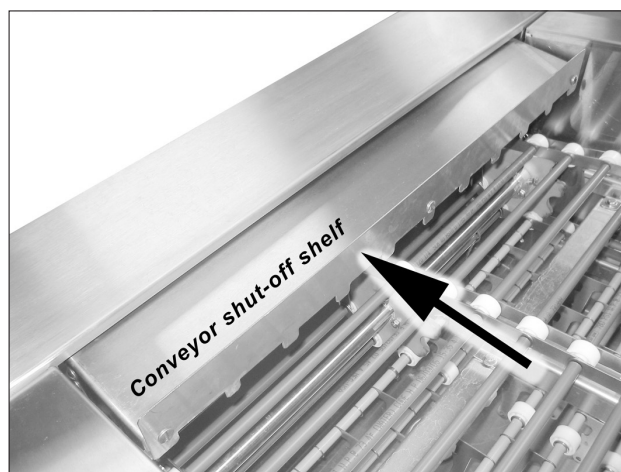
Moving Conveyor Parts may cause INJURY OR DEATH. Keep hands and clothing clear of the conveyor when the conveyor is moving.

USE EXTREME CAUTION WHEN THE CONVEYOR IS MOVING.

The Conveyor Shut-off Shelf is designed to stop the conveyor belt when wares traveling on the conveyor belt reach the end of the unload section. This prevents wares from being damaged and prevents the conveyor belt from jamming. The Shut-off Shelf is located on the extreme end of the un-load end section of the dishwasher.

The Conveyor Shut-off Shelf functions in the following way:

1. When wares contact the shut-off shelf the shelf pivots backward stopping the conveyor belt.
2. The shut-off shelf also will stop the optional blower-dryer heat off if the machine is equipped with the blower-dryer.
3. The wash pumps continue to run when the conveyor belt stops
4. The machine operator should remove the wares on the unload section of the belt making sure that no wares have fallen below the conveyor belt.
5. In the event that wares have fallen below the belt, the operator must turn power off at the control panel and then remove any wares. The machine can be restarted when the wares are clear.
6. The conveyor belt will not run until the conveyor shut-off shelf is moved back to the RUN position as shown in the photos to the right.



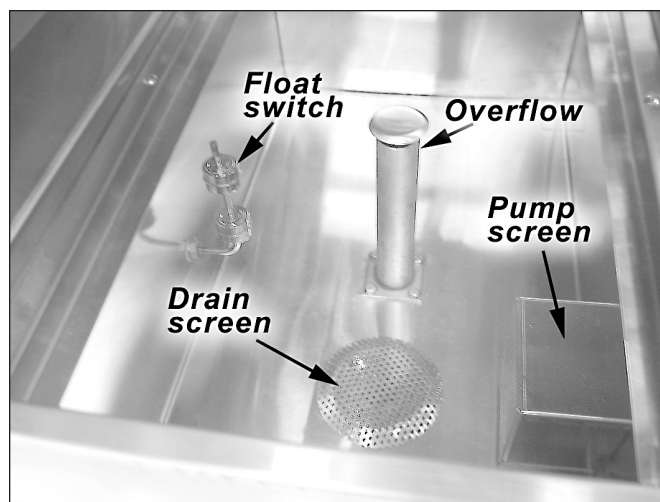
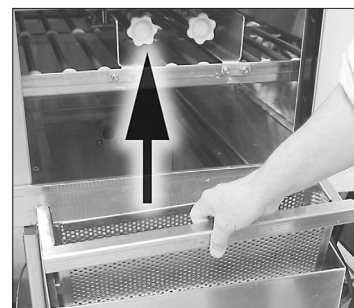
Conveyor Shut-off shelf in the RUN position



Conveyor Shut-off shelf in the STOP position

Cleaning**After each meal period or every 2 hours of operation**

1. Turn POWER OFF.
2. Open the drain handles and drain the dishwasher.
3. Open the dishwasher doors, check that the curtains are in place and secure.
4. Check the conveyor belt for any wares that may have fallen down into the belt and remove.
5. Flush any accumulated soils from the load section tank bottom to the scrap screens at the end of the load end of the dishwasher.
6. Remove the scrap baskets, (if equipped), and scrap screens.
7. Flush the scrap screens in a sink. Do not strike the scrap screens on hard surfaces.
8. Back flush the scrap screens with water.
9. Inspect the pump intake screens, remove and clean if necessary.
10. Inspect the tank drain screens and flush if necessary.
11. Re-assemble the dishwasher in reverse order.
12. Close the drains and the dishwasher doors.
13. Turn the dishwasher power ON.
14. Wait for the tank temperatures to reach operating temperatures, then return to normal operation.



Cleaning (continued)

At the end of the day.

1. Repeat steps 1-4 in the previous section, "*After each meal period*".
2. Remove the curtains, take to a sink and clean with a mild detergent. Flush the curtains with fresh water and set aside.
3. Remove the upper and lower spray arm assemblies. Remove the pipe end-plugs and flush the interior of the spray arm pipes with clean water. Check the wash nozzles and make sure they are clear of foreign objects.
4. Check that the wash arm assembly o-rings are in place and in good condition.
5. Remove the Auxiliary rinse arms and flush with fresh water.
6. Check that the 2 o-rings on the auxiliary rinse arms are in place and in good condition.
7. Check the final rinse nozzles and clean with a small wire if clogged.
8. Flush the interior of the dishwasher with fresh clean water.
9. Repeat steps 5-10 in the previous section, "*After each meal period*".
10. Wipe the interior of the dishwasher with a clean soft cloth. Do not use a scouring pad.
11. Re-assemble the dishwasher in reverse order.
12. Remove any objects stored on the top of the dishwasher.
13. Check that any screens on the top of the machine are clear of foreign material.
14. Wipe exterior screens clean with a soft cloth.

DO NOT HOSE THE EXTERIOR OF THE MACHINE WITH WATER.

15. Leave the dishwasher doors open to aid in overnight-drying.

Maintenance

Daily Maintenance

1. Keep your dishwasher and the surrounding area clean.
2. Check for damaged or missing components and replace as soon as possible.
3. Check building drains for flow restrictions.
4. Check the dishwasher for leaks in the door areas, around the tank seams, and above and below the dishwasher.

Monthly Maintenance

1. Perform all of steps as described in the section, "Daily Maintenance" above.
2. Inspect pump hoses, door linkage, springs, and exterior of dishwasher for wear.
3. Inspect the wash arm bearings and O-rings.
4. Check the condition of scrap screens and dish racks for damage.
5. Check the toggle switches and indicator lights for damage.
6. Check the wash pump motors and leaking pump seals.
7. Check the vent system on the dishwasher making sure the vent adjustment controls are secure and in good condition.
8. IF EQUIPPED, clean the Optional Blower Dryer and the Optional Heat Recovery according to the instructions in the Blower Dryer Service Manual P/N 114316 and the Heat Recovery Unit Service Manual P/N 114663.

Annual Maintenance

Call your authorized service agent or local service representative and schedule a complete inspection of your dishwasher by our trained professionals.

Schedule your annual maintenance when you can give the service agent unrestricted access to the dishwasher for at least 2 to 3 hours.

Troubleshooting

On occasion your machine may not operate as expected.

Use the checklist below before you decide that a mechanical or electrical failure has occurred.

1. Are the main disconnect switches, breakers, or motor overloads turned ON?
2. Are the main water and steam supplies turned ON?
3. Are the drain valves closed?
4. Are the spray pipes and rinse nozzles clean?
5. Are the spray pipes in the proper locations?
6. Are the pump intakes clean?
7. Are the scrap screens clean and in place?
8. Are the thermostats correctly adjusted?
9. Are the high limit temperature thermostats reset?
10. Are the doors fully closed?
11. Are the conveyor shut-off and drive assemblies in operating condition?
12. Are the chemical supplies adequately filled?

If a problem still exists after verifying the checklist, refer to the following.

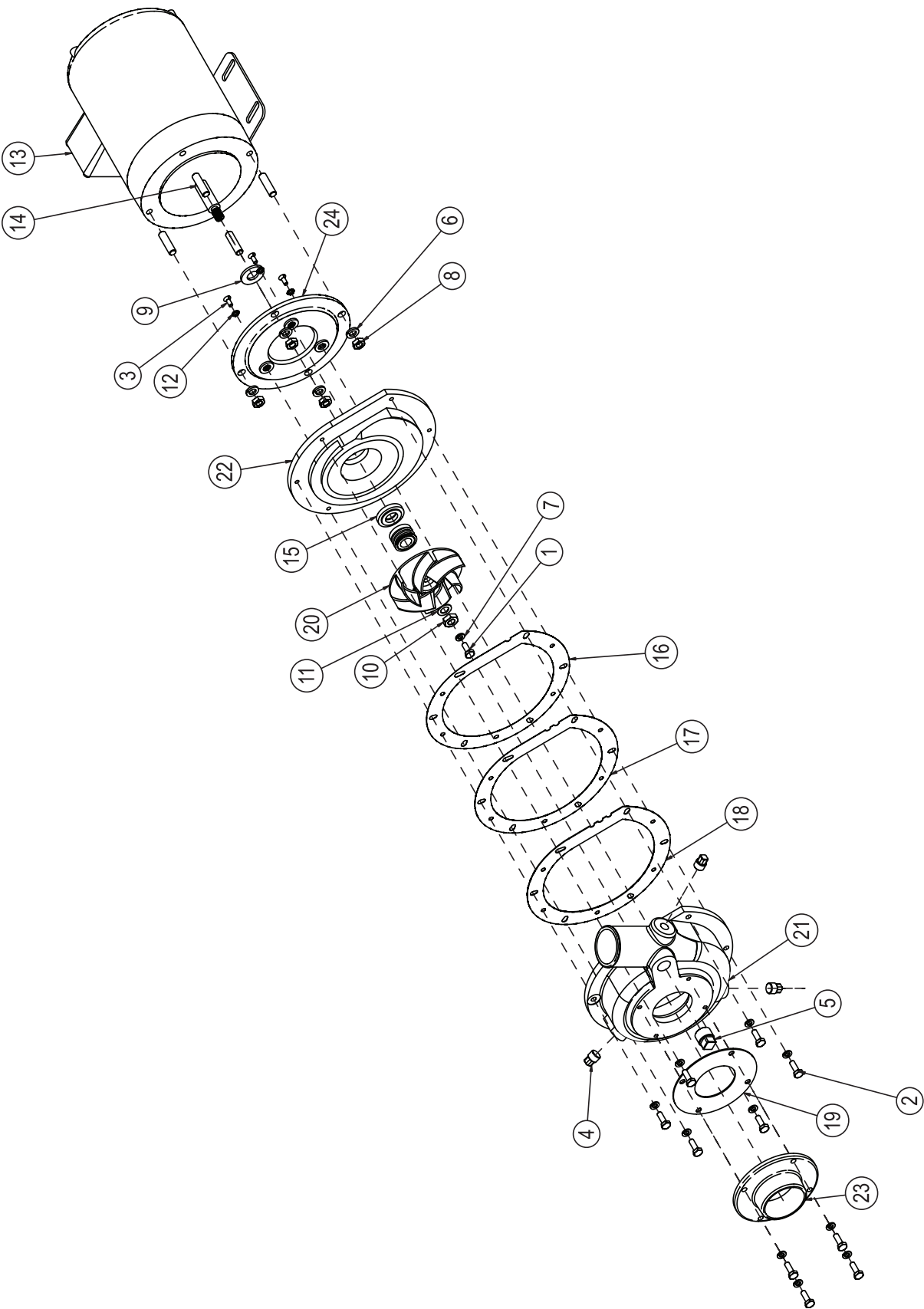
PROBLEM	CAUSE	SOLUTION
No power.	Main Power to dishwasher off. Dishwasher power switch off. Dishwasher fuse blown.	Reset main circuit breaker or turn on. Turn switch on. Call service agent.
Dishwasher tank will not fill with water.	Main water supply off. Incoming water pressure low. Defective water solenoid valve. Dishwasher tank drain open. Dishwasher tank float switch stuck or defective.	Open main water supply valve. Adjust/replace water pressure regulating valve (PRV). Repair/replace valve. Close tank drain handle. Clean/Replace float switch.

PROBLEM	CAUSE	SOLUTION
Conveyor belt will not move.	<p>Mode switch not operated.</p> <p>Conveyor Stop Switch pressed.</p> <p>Remote Stop Switch pressed.</p> <p>Conveyor Shut-off Shelf in stop position.</p> <p>Conveyor belt jammed.</p> <p>Conveyor motor overload tripped or defective.</p>	<p>Push Energy Saver, Normal, or Fast Mode Selector Switch</p> <p>See above.</p> <p>Press Remote Start Switch.</p> <p>Push Shut-off Shelf to the Run position.</p> <p>Turn dishwasher power switch off. Check for jam and free belt.</p> <p>Call service agent.</p>
1 or moter wash pump will not run.	<p>Wash motor overload tripped.</p> <p>Defective motor.</p>	<p>Call service agent.</p>
Water level in 1 or more tanks low.	<p>Door not closed completely.</p> <p>Clogged solenoid valve line strainer.</p> <p>Defective solenoid valve.</p> <p>Float switch stuck/clogged with lime.</p> <p>Tank scrap screens clogged.</p> <p>Tank cross-flow piping clogged.</p> <p>Drain valve open.</p>	<p>Close door.</p> <p>Clean line strainer.</p> <p>Repair/replace valve. Call service agent.</p> <p>Free stuck float. Clean/de-lime dishwasher (Consult chemical supplier).</p> <p>Clean scrap screens.</p> <p>Drain dishwasher and clean.</p> <p>Close drain valve.</p>
Water runs constantly.	<p>Stuck or defective float switch.</p> <p>Water pressure high.</p>	<p>Clean or replace float switch.</p> <p>Adjust PRV or reduce incoming water pressure.</p>

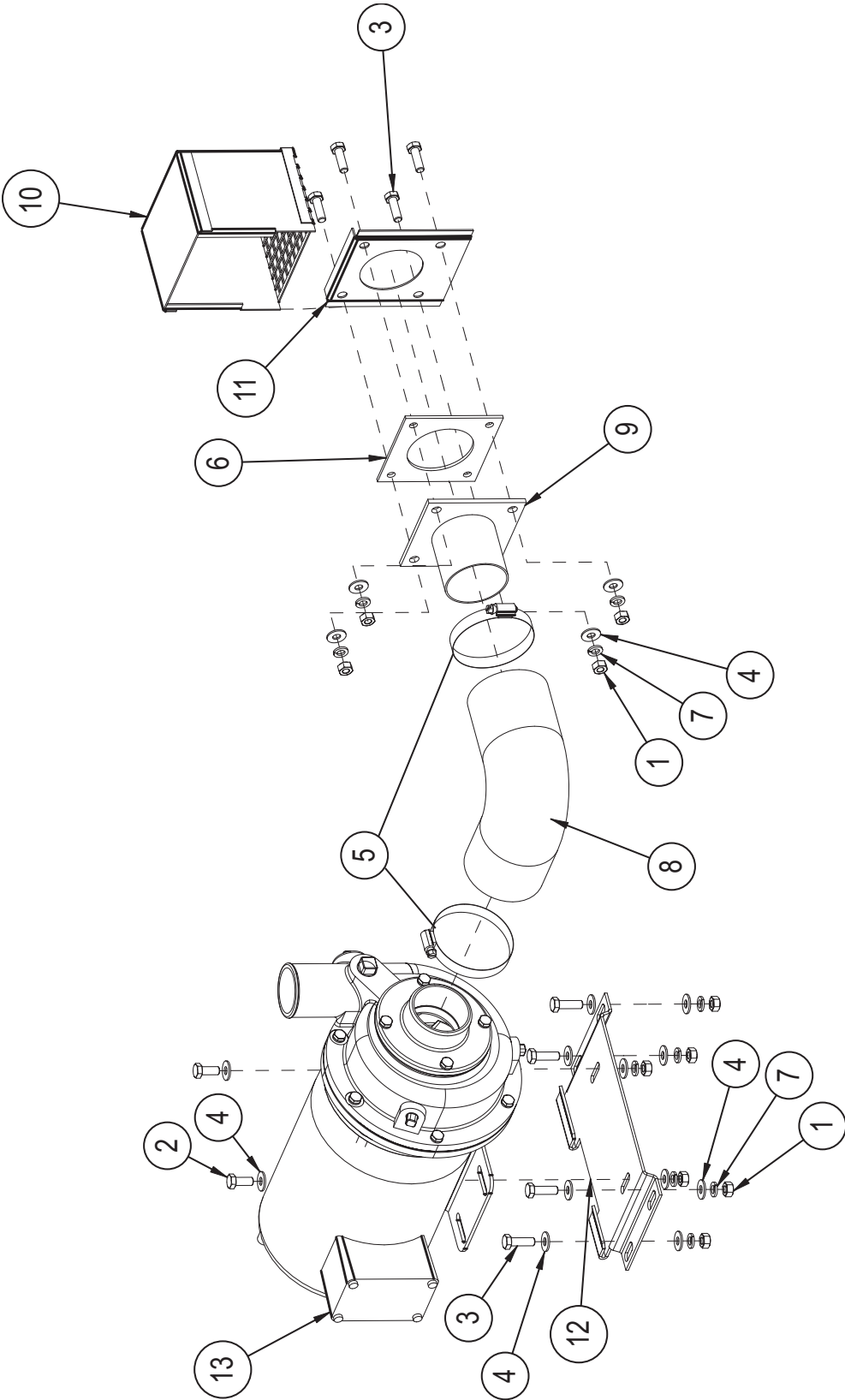
PROBLEM	CAUSE	SOLUTION
Low wash pumped pressure.	<p>Clogged pump intake screen.</p> <p>Clogged wash spray arm.</p> <p>Clogged scrap screen.</p> <p>Low water in the wash tank.</p> <p>Tank baffle defective.</p> <p>Pump motor rotation is incorrect.</p> <p>Curtains missing or out of place.</p>	<p>Drain dishwasher and clean pump intake screen.</p> <p>Remove spray arm assembly and clean spray arms.</p> <p>Drain dishwasher and clean scrap screens.</p> <p>Check that drain valve is fully closed.</p> <p>Repair or replace tank baffle.</p> <p>Contact service agent.</p> <p>Re-install curtains in proper locations.</p>
Wash tank temperature is low.	<p>Defective digital temperature display.</p> <p>Defective tank control thermostat.</p> <p>Defective electric heater.</p> <p>Low steam pressure or steam volume.</p>	<p>Contact service agent.</p> <p>Contact service agent.</p> <p>Contact service agent.</p> <p>Check steam supply to dishwasher dishwasher steam trap and solenoid.</p>
Auxiliary or final rinse pressure low.	<p>Rinse arms are clogged.</p> <p>Water solenoid valve defective.</p> <p>PRV set too low or low water pressure.</p> <p>Clogged line strainer.</p>	<p>Check auxiliary rinse arm gaskets clean spray nozzles.</p> <p>Repair or replace solenoid valve.</p> <p>Repair or replace PRV. Increase incoming water pressure.</p> <p>Repair or replace line strainer.</p>
Final rinse water temperature is low.	<p>Defective digital temperature display.</p> <p>Defective tank control thermostat.</p> <p>Defective electric booster heater.</p> <p>Low steam pressure or steam volume.</p> <p>Incoming water temperature too low.</p> <p>Final rinse booster heater defective.</p> <p>Heat recovery system defective.</p>	<p>Contact service agent.</p> <p>Contact service agent.</p> <p>Contact service agent.</p> <p>Check steam supply to dishwasher dishwasher steam trap and solenoid.</p> <p>Increase water temperature coming to dishwasher.</p> <p>Repair or replace booster heater.</p> <p>Contact service agent.</p>
Excessive water vapor escaping end of dishwasher.	<p>Dishwasher vents closed.</p> <p>Dish room ventilation system defective.</p>	<p>Adjust vent dampers.</p> <p>Contact building maintenance.</p>

Service Replacement Parts

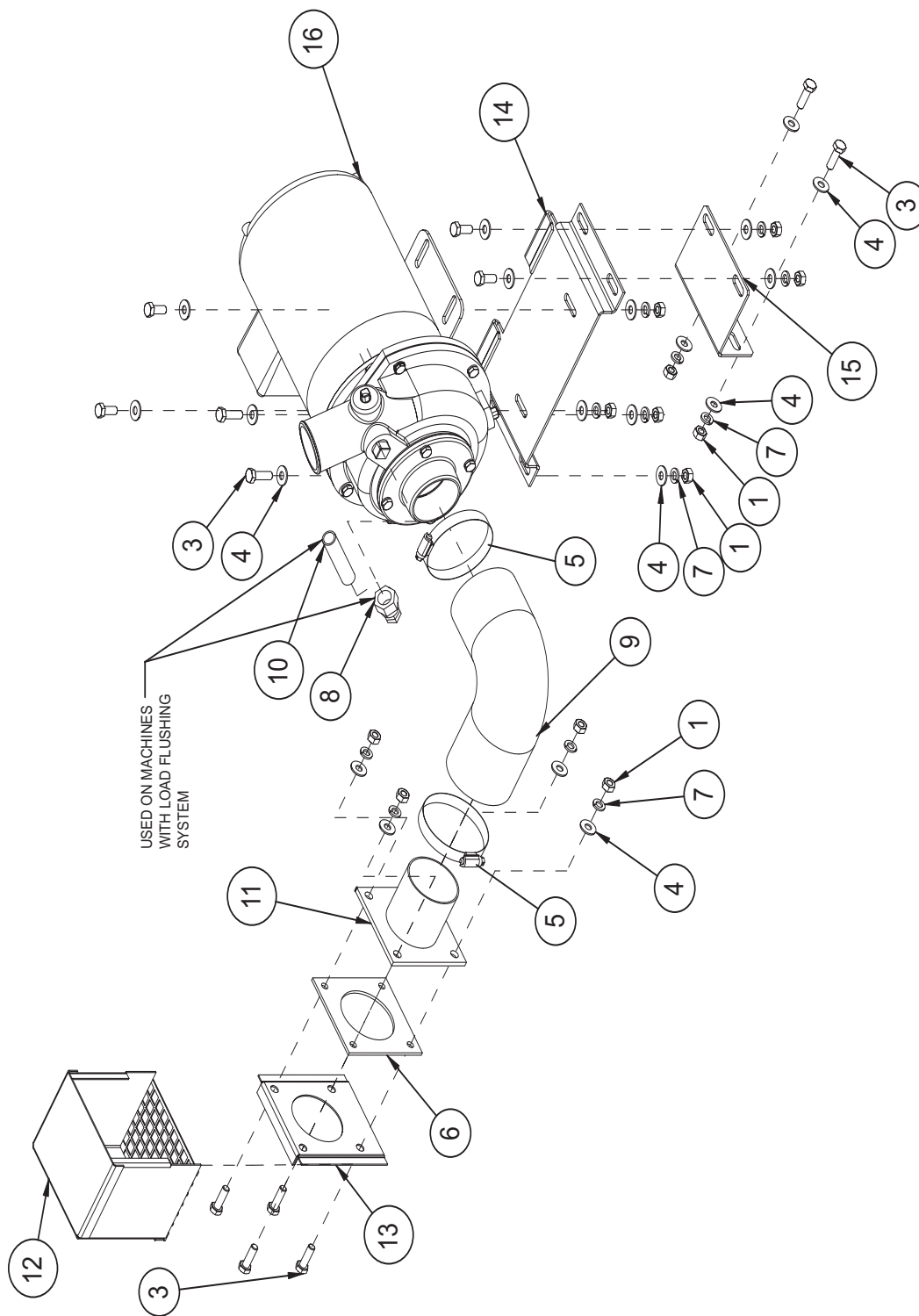
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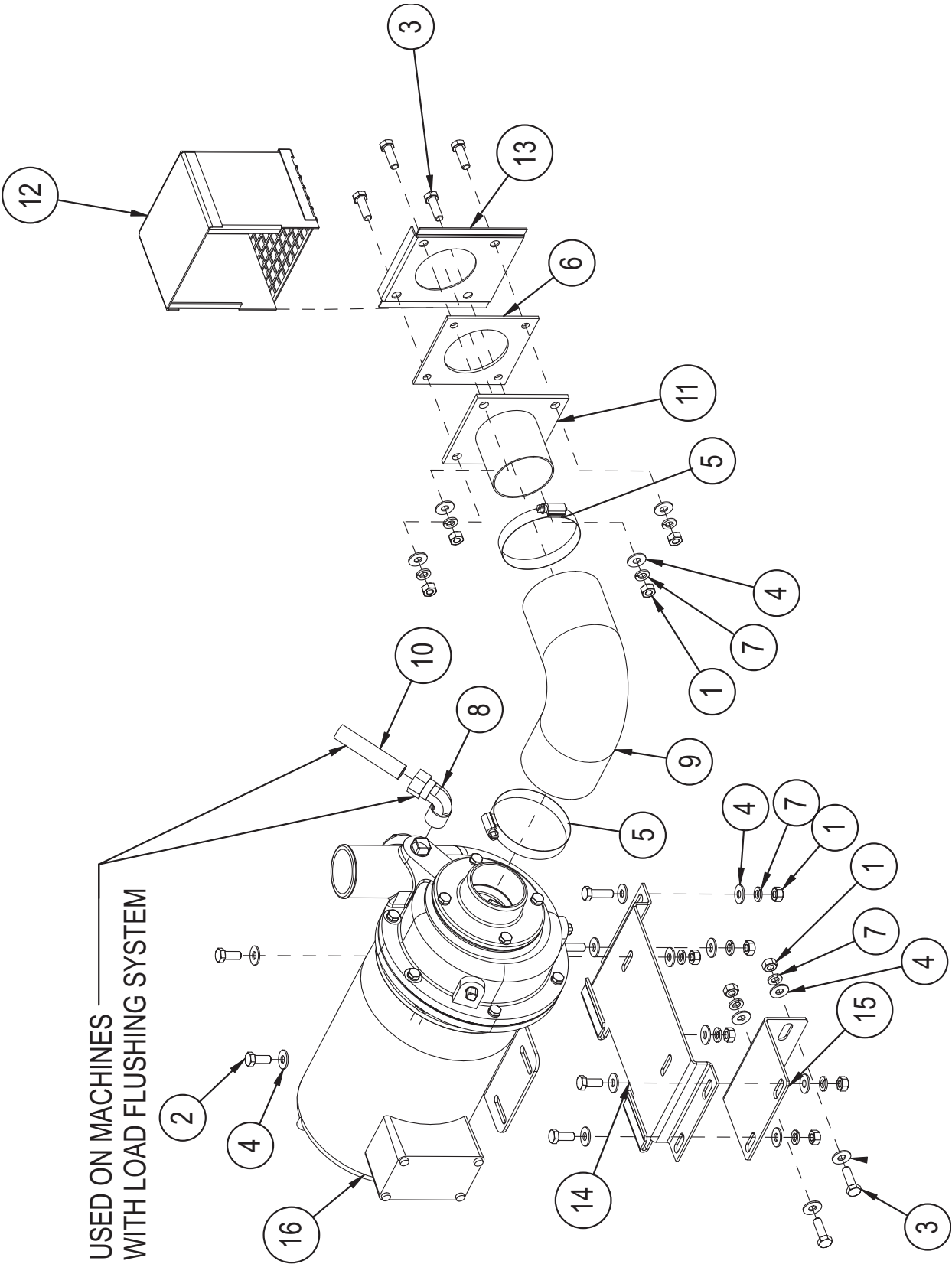
Item No.	Part No.	Description	Qty.
1	100735	HEX HEAD, 1/4-20 X 5/8 SST	1
2	100736	HEX HEAD, 1/4-20 X 3/4 SS T	10
3	100754	SCREW, FLAT HEAD, 10-32 X 1/2 SST	3
4	102500	PLUG, 1/4"NPT SQ. HEAD, BRASS	3
5	102504	PLUG, 1/2"NPT SQ. HEAD, BRASS	1
6	106407	WASHER, LOCK, 3/8 SPLIT, SST	4
7	106482	WASHER, LOCK, 1/4 SPLIT, SST	11
8	107690	HEX PLAIN JAM NUT, 3/8-16 SST	4
9	109654	SLINGER, JET PUMP	1
10	110247	HEX PLAIN JAM NUT, 7/16-14 SST	1
11	110248	WASHER, FLAT, .440x.750x.043 SST	1
12	110270	WASHER, LOCK, CSK EXTERNAL TOOTH, #10	3
13	110424	MOTOR, 3HP 3PH, MV JET PUMP	1
14	110734	STUD, 3/8-16 X 1 3/8 LG. SST, PUMP	4
15	111111	SEAL ASSY, CI PUMP	1
16	111941	GASKET, PUMP VOLUTE, .0085 THICK	1
17	111942	GASKET, PUMP VOLUTE, .015 THICK	1
18	111943	GASKET, PUMP VOLUTE, .032 THICK	1
19	112338	GASKET, PUMP SUCTION FLANGE	1
20	113120	IMPELLER, 3HP SST, MACHINED B4 / C3 / C4 EUCCW	1
---	---	IMPELLER, 3HP SST, MACHINED B4 / C4 EUCC	1
---	113119	IMPELLER, 3HP SST, MACHINED C3 EUCC	1
21	113634	VOLUTE, JET PUMP, SST	1
22	113635	FLANGE, JET PUMP, SST	1
23	113636	SUCTION FLANGE	1
24	204460	BACKING PLATE, NG JET PUMP	1
	113263	MOTOR, 3HP, 575V/60/3	



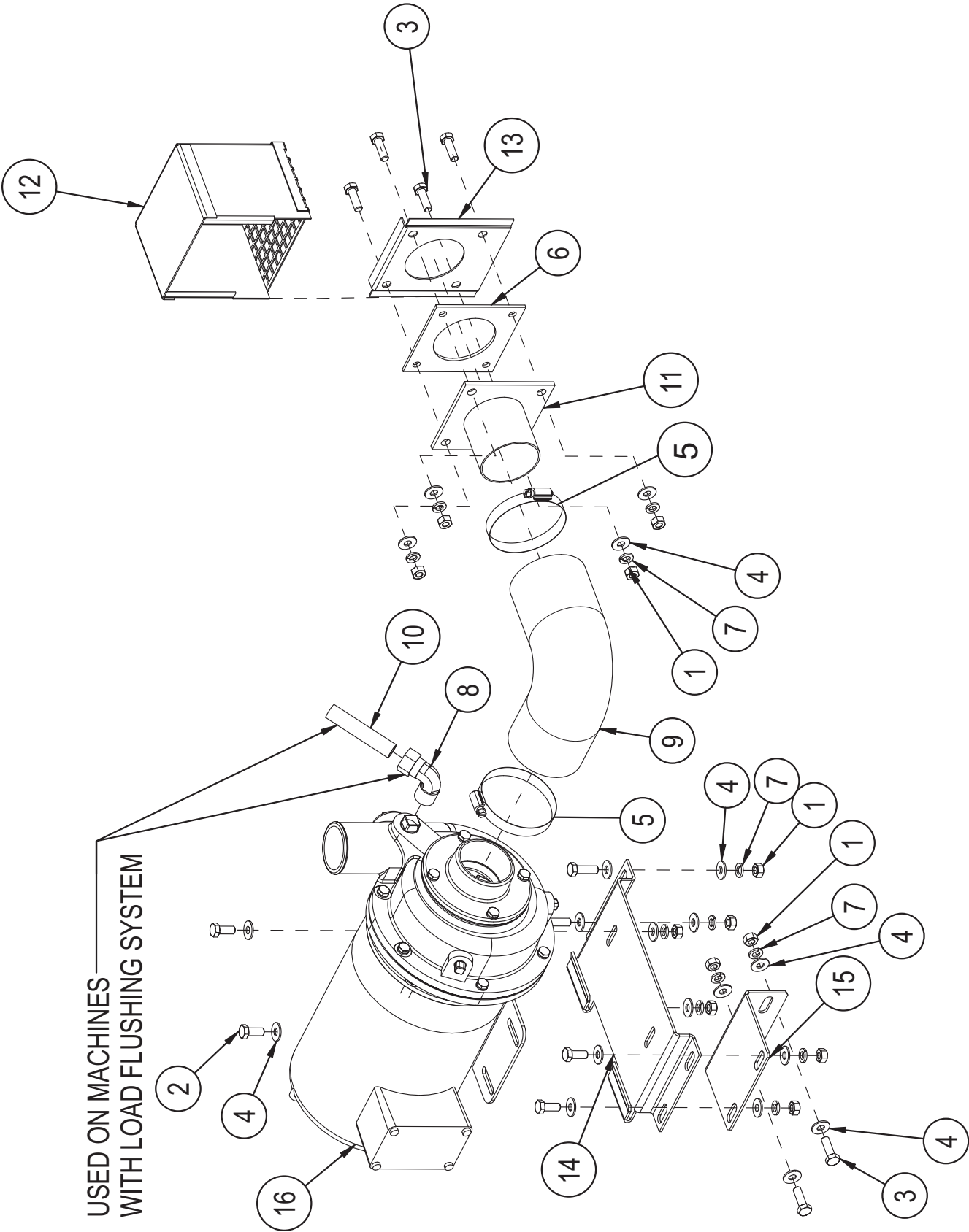
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	10
2	100739	HEX HEAD,5/16-18 X 3/4 SST	2
3	100740	HEX HEAD,5/16-18 X 1 SS T	8
4	102376	WASHER,FLAT,5/16 x 3/4 x.06 SST	16
5	104203	CLAMP,HOSE,M52,71/95,SST GEAR TYPE	2
6	104640	GASKET,PUMP SUCTION RACK/CC/UC	1
7	106013	WASHER,LOCK,5/16 SPLIT,SST	10
8	110372	HOSE,PUMP SUCTION,UC	1
9	313300	FLANGE WELD,PUMP SUCTION,UC	1
10	319742	HOOD WELDMENT,PUMP SUCTION,UC	1
11	319743	PLATE,PUMP SUCTION HOOD	1
12	320918	SUPPORT,PUMP MOTOR,C3 NUCCW	1
13	405923	PUMP ASSY,3HP MV 3PH, UC B4 / C3 / C4 EUCCW	1
---	---	PUMP ASSY,3HP MV 3PH, UC B4 / C4 EUCC	1
---	405922	PUMP ASSY,3HP MV 3PH, UC C3 EUCC	1
	415920	PUMP ASSY, 3HP, 575/60/3 LH, UC B4/C3 EUCCW	
	415921	PUMP ASSY, 3HP, 575/60/3 RH, UC B4/C4 EUCC	



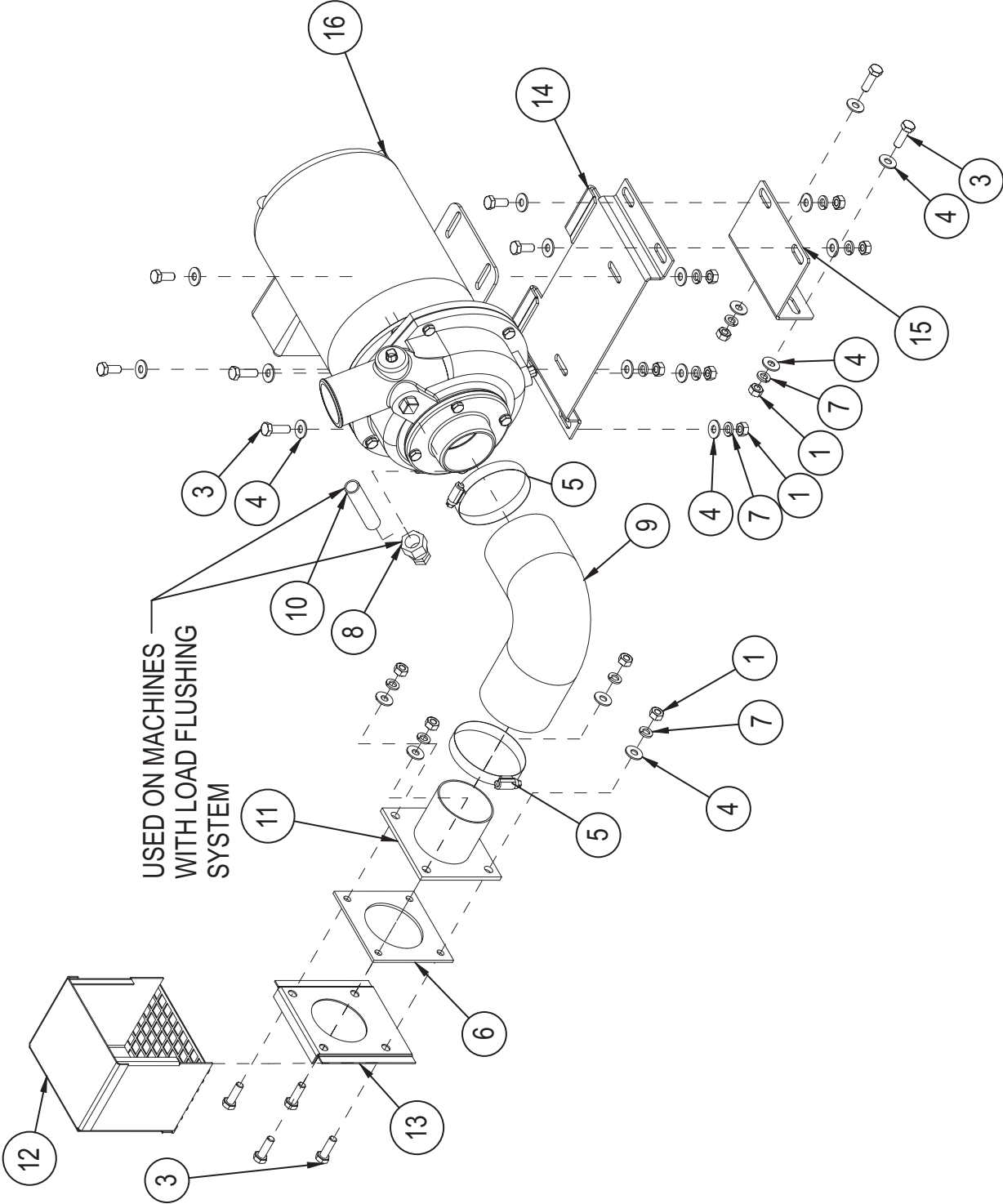
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	12
2	100739	HEX HEAD,5/16-18 X 3/4 SST	4
3	100740	HEX HEAD,5/16-18 X 1 SST	8
4	102376	WASHER,FLAT,5/16x3/4x.06 SST	20
5	104203	CLAMP,HOSE,SST GEAR TYPE	2
6	104640	GASKET,PUMP SUCTION RACK/CC/UC	1
7	106013	WASHER,LOCK,5/16 SPLIT,SST	12
8	109926	FITTING,COMPRESSION,5/8OD X 1/2"MNPT,ELL,BRASS	1
9	110372	HOSE,PUMP SUCTION,UC	1
10	205192	TUBE,1/2"COPPER X 3.00"LG	1
11	313300	FLANGE WELD,PUMP SUCTION,UC	1
12	319742	HOOD WELDMENT,PUMP SUCTION,UC	1
13	319743	PLATE,PUMP SUCTION HOOD	1
14	322150	SUPPORT,PUMP MOTOR,B2 NUCCW	1
15	329618	BRACKET,PUMP SUPPORT,B-30 W/A3	1
16	405919-120	PUMP ASSY,1HP MV 3PH	1
	415917 □	PUMP ASSY, 1HP, 575/60/3, UC	



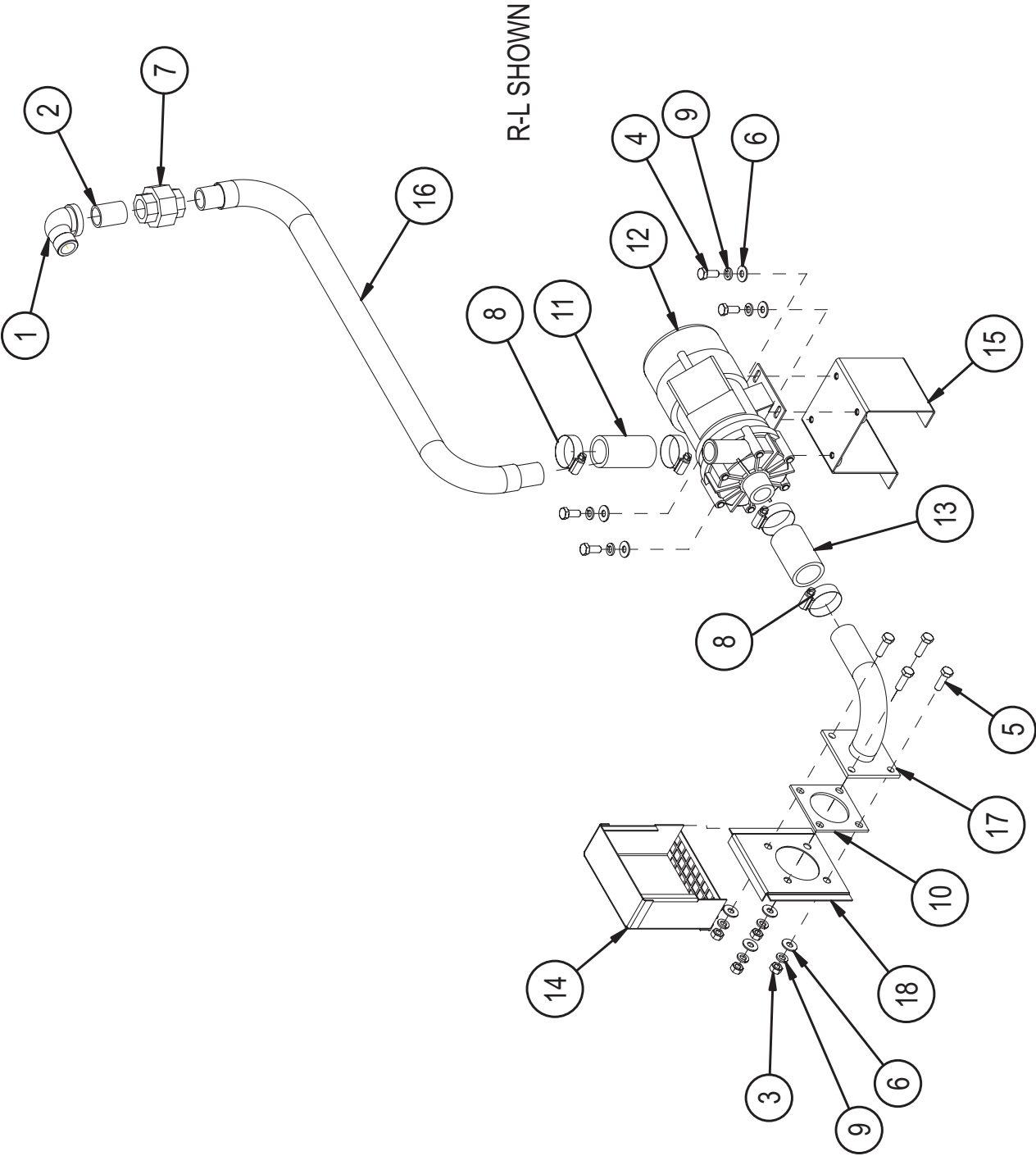
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	12
2	100739	HEX HEAD,5/16-18 X 3/4 SST	4
3	100740	HEX HEAD,5/16-18 X 1 SST	8
4	102376	WASHER,FLAT,5/16x3/4x.06 SST	20
5	104203	CLAMP,HOSE,M52,71/95,SST GEAR TYPE	2
6	104640	GASKET,PUMP SUCTION RACK/CC/UC	1
7	106013	WASHER,LOCK,5/16 SPLIT,SST	12
8	109926	FITTING,COMPRESSION,5/8OD X 1/2"MNPT,ELL,BRASS	1
9	110372	HOSE,PUMP SUCTION,UC	1
10	205192	TUBE,1/2"COPPER X 3.00"LG	1
11	313300	FLANGE WELD,PUMP SUCTION,UC	1
12	319742	HOOD WELDMENT,PUMP SUCTION,UC	1
13	319743	PLATE,PUMP SUCTION HOOD	1
14	322150	SUPPORT,PUMP MOTOR,B2 NUCCW	1
15	329618	BRACKET,PUMP SUPPORT,B-30 W/A3	1
16	405919	PUMP ASSY,1HP MV 3PH, UC	1
	415917□	PUMP ASSY, 1HP, 575/60/3	



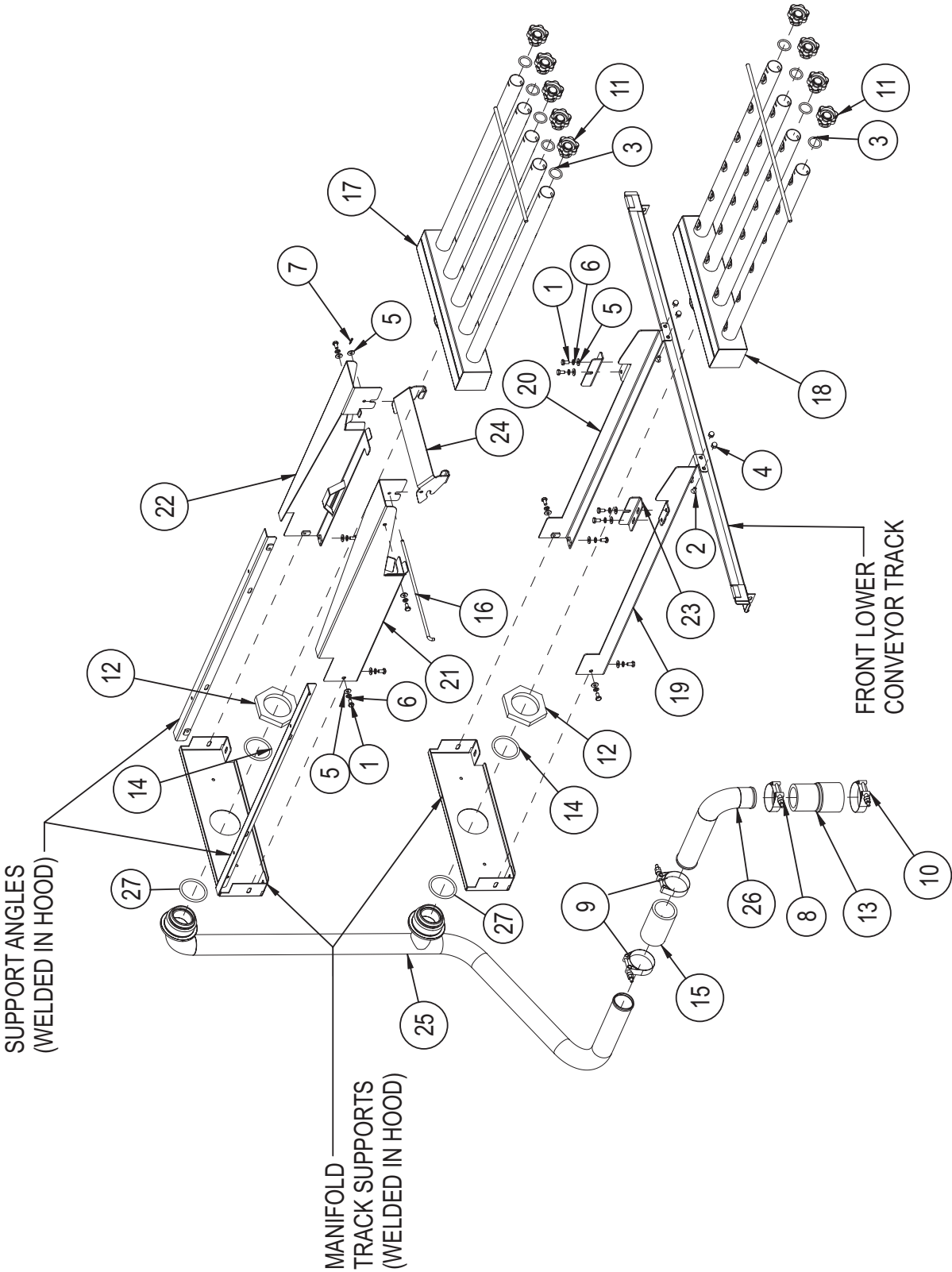
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	12
2	100739	HEX HEAD,5/16-18 X 3/4 SST	4
3	100740	HEX HEAD,5/16-18 X 1 SST	8
4	102376	WASHER,FLAT,5/16x3/4x.06 SST	20
5	104203	CLAMP,HOSE,M52,71/95,SST GEAR TYPE	2
6	104640	GASKET,PUMP SUCTION RACK/CC/UC	1
7	106013	WASHER,LOCK,5/16 SPLIT,SST	12
8	109926	FITTING,COMPRESSION,5/8OD X 1/2"MNPT,ELL,BRASS	1
9	110372	HOSE,PUMP SUCTION,UC	1
10	205192	TUBE,1/2"COPPER X 3.00"LG	1
11	313300	FLANGE WELD,PUMP SUCTION,UC	1
12	319742	HOOD WELDMENT,PUMP SUCTION,UC	1
13	319743	PLATE,PUMP SUCTION HOOD	1
14	322150	SUPPORT,PUMP MOTOR,B2 NUCCW	1
15	329618	BRACKET,PUMP SUPPORT,B-30 W/A3	1
16	405923	PUMP ASSY,3HP MV 3PH, UC	1
	415920	PUMP ASSY, 3HP, 575/60/3 LH, UC B4/C3 EUCCW	
	415921	PUMP ASSY, 3HP, 575/60/3 RH, UC B4/C3 EUCC	



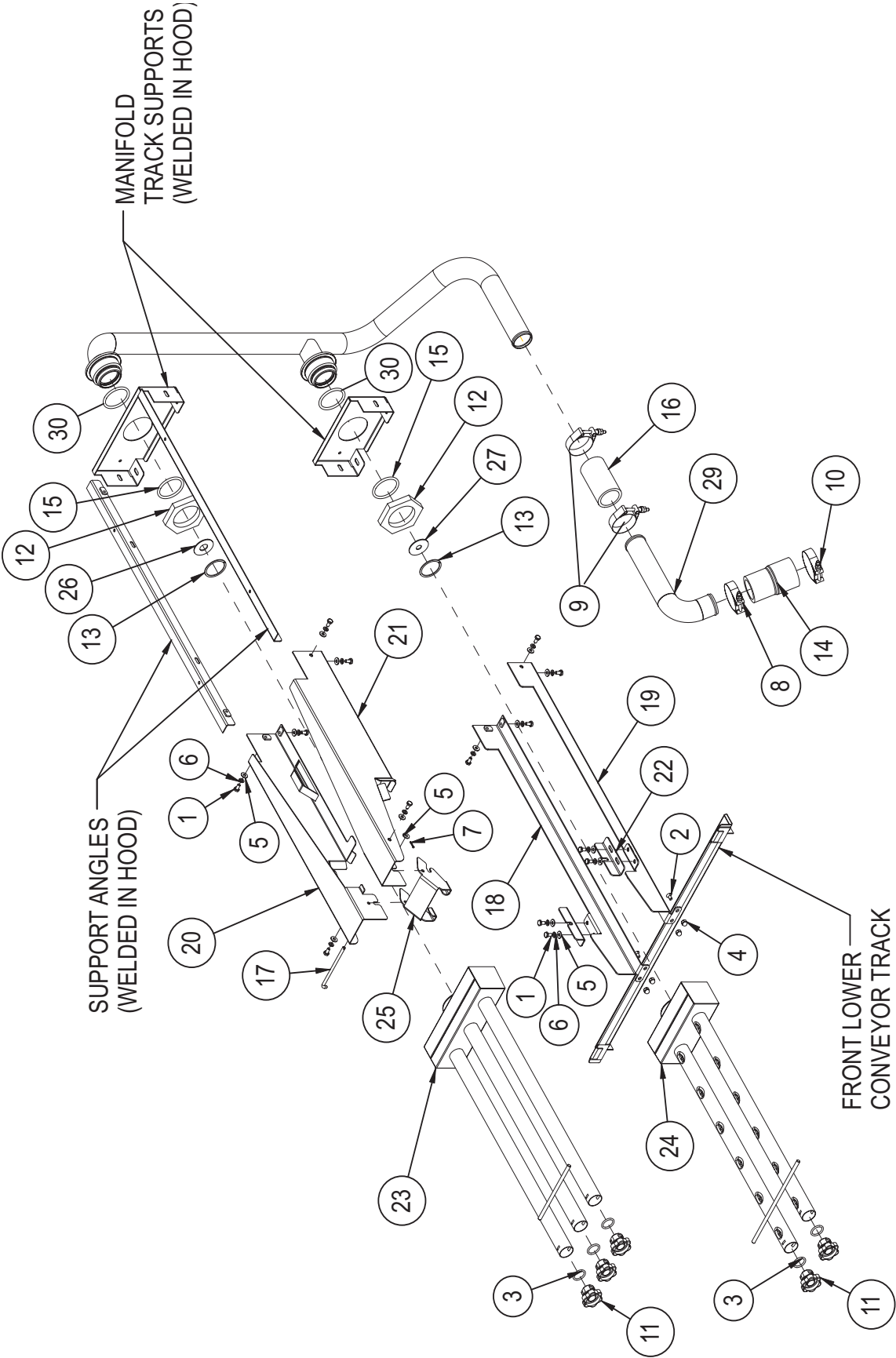
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	12
2	100739	HEX HEAD,5/16-18 X 3/4 SST	4
3	100740	HEX HEAD,5/16-18 X 1 SST	8
4	102376	WASHER,FLAT,5/16x3/4x.06 SST	20
5	104203	CLAMP,HOSE,M52,71/95,SST GEAR TYPE	2
6	104640	GASKET,PUMP SUCTION RACK/CC/UC	1
7	106013	WASHER,LOCK,5/16 SPLIT,SST	12
8	109926	FITTING,COMPRESSION,5/8OD X 1/2"MNPT,ELL,BRASS	1
9	110372	HOSE,PUMP SUCTION,UC	1
10	205192	TUBE,1/2"COPPER X 3.00"LG	1
11	313300	FLANGE WELD,PUMP SUCTION,UC	1
12	319742	HOOD WELDMENT,PUMP SUCTION,UC	1
13	319743	PLATE,PUMP SUCTION HOOD	1
14	322150	SUPPORT,PUMP MOTOR,B2 NUCCW	1
15	329618	BRACKET,PUMP SUPPORT,B-30 W/A3	1
16	405923-120	PUMP ASSY,3HP MV 3PH, UC	1
	405920	PUMP ASSY, 3HP, 575/60/3 LH, UC B4/C3 EUCCW	
	405921	PUMP ASSY, 3HP, 575/60/3 RH, UC B4/C3 EUCCW	



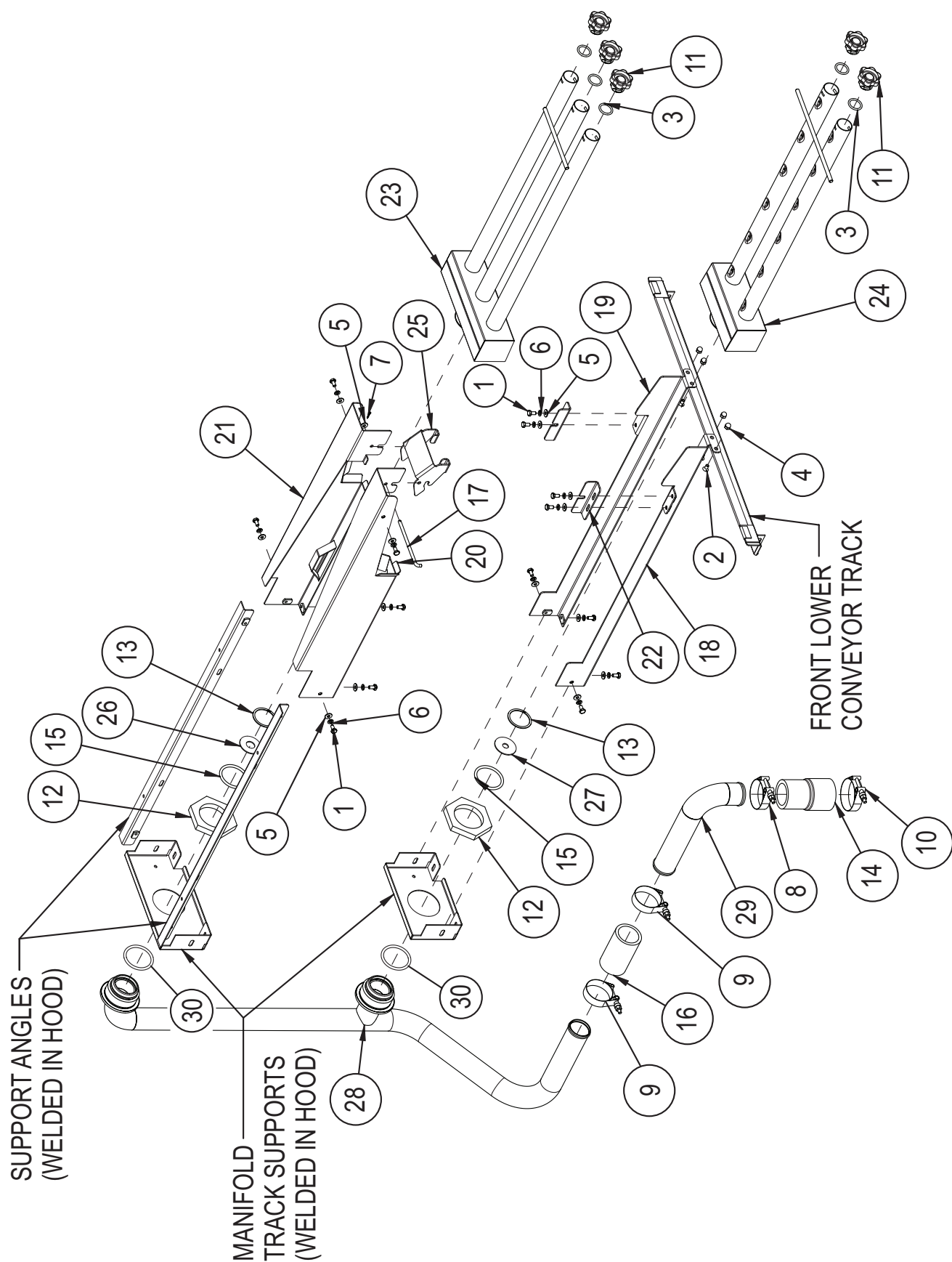
Item No.	Part No.	Description	Qty.
1	100023	STREET ELBOW,3/4"NPT X 90,SST	1
2	100051	NIPPLE,3/4"NPT X CLOSE,SST	1
3	100154	HEX PLAIN NUT,5/16-18 SST	4
4	100739	HEX HEAD,5/16-18 X 3/4 SST	4
5	100740	HEX HEAD,5/16-18 X 1 SST	4
6	102376	WASHER,FLAT,5/16x3/4x.06 SST	8
7	102554	UNION,3/4"NPT, SST	1
8	105993	CLAMP,HOSE,M20,19/44,SST GEAR TYPE	4
9	106013	WASHER,LOCK,5/16 SPLIT,SST	8
10	108345	GASKET,HEATER/STANDPIPE	1
11	114020	HOSE, 1 1/8"ID x 2 3/4" x 3/16" WALL	1
12	114199	PUMP ASSY AUXILIARY	1
---	0509303	KIT, PUMP BODY	1
---	0510222	KIT, SEAL AND GASKET	1
---	180413	IMPELLER	1
13	206643	HOSE,1.250 ID X 2.500 LG.EPDM	1
14	322832	HOOD WELDMENT,PUMP SUCTION,E2	1
15	329791	BASE DECK WELD,PUMP,E2	1
16	329796	TUBE WELDMENT,E2 PUMP DISCHARGE EUCCW	1
---	330750	TUBE WELDMENT,E2 PUMP DISCHARGE EUCC	1
17	329797	FLANGE WELD,E2 PUMP SUCTION	1
18	329798	PLATE,PUMP SUCTION HOOD,E2	1
	111744□	MOTOR, AUXILIARY, 1/4 HP, 575/60/3	
	452611□	PUMP ASSY, AUXILIARY, 1/4 HP, 575/60/3□□□	



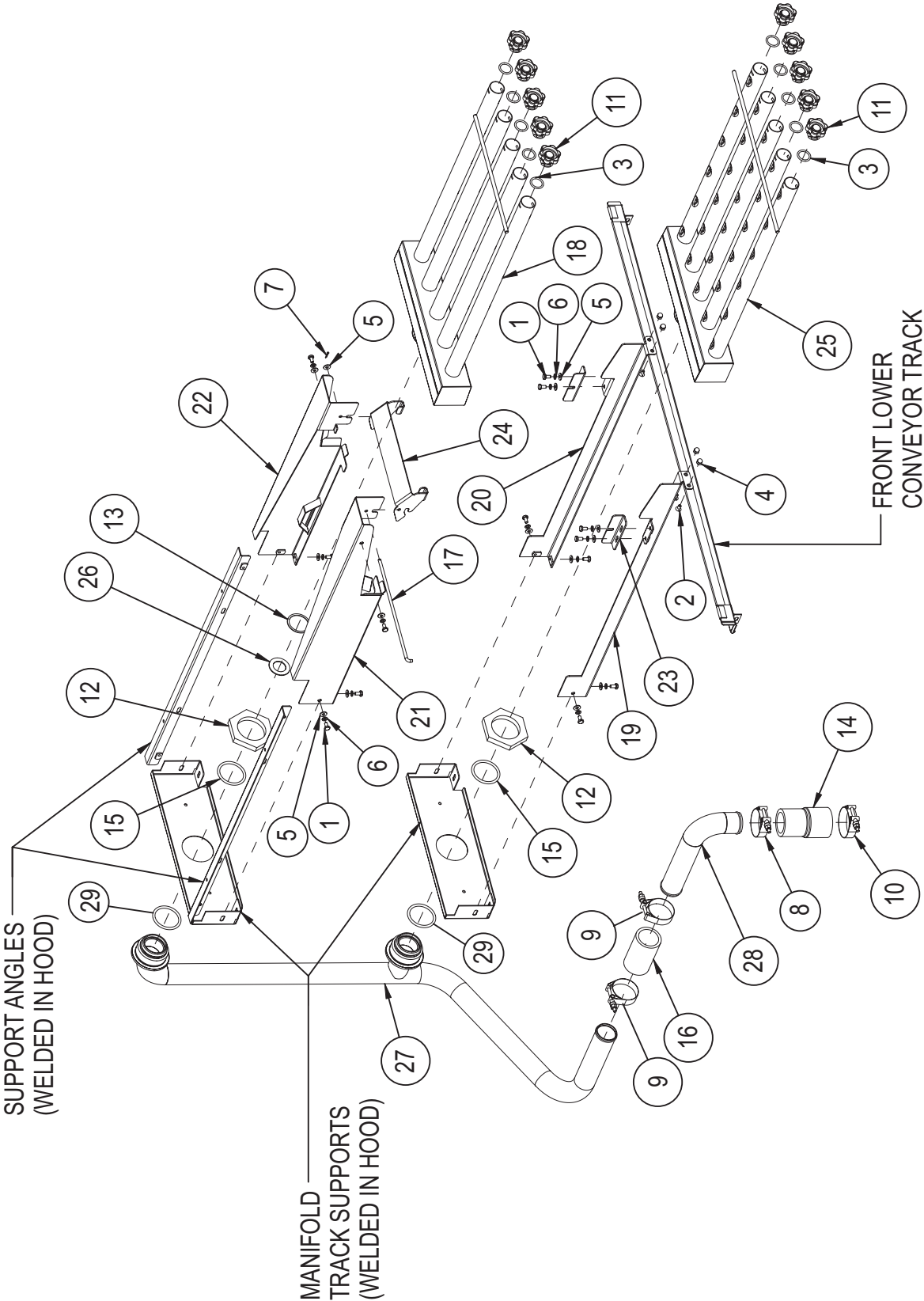
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	14
2	100755	SCREW,FLAT HEAD,1/4-20 X 1/2 SST	4
3	104414	O-RING,1 X 1 1/4 X 1/8	9
4	106014	HEX ACORN PLAIN NUT,1/4-20 SST	4
5	106026	WASHER,FLAT,1/4x5/8x.06 SST	15
6	106482	WASHER,LOCK,1/4 SPLIT,SST	14
7	108875	COTTER PIN,3/32 X 1/2 UNEVEN	1
8	110858	HOSE CLAMP,HIGH PRESSURE,0256	1
9	111780	HOSE CLAMP,HIGH PRESSURE,0238	2
10	111964	HOSE CLAMP,HIGH PRESSURE,0275	1
11	112240	PLUG, DEBOSSSED SPRAYPIPE	9
12	113911	LOCKNUT,2 1/2" , NPSL, SST	2
13	113984	HOSE, DISCHARGE MOLDED E	1
14	114096	O-RING,2.225x.210 DIA.	2
15	202146	HOSE,1.875 ID X 5.375 LG.EPDM	1
16	206552	ROD, LATCH PIVOT,5 HOLE MANIFOLD	1
17	329659	MANIFOLD WELDMENT,5 HOLE,UPPER EUCCW	1
---	330632	MANIFOLD WELDMENT,5 HOLE,UPPER EUCC	1
18	329662	MANIFOLD WELDMENT,4 HOLE,LOWER EUCCW	1
---	330633	MANIFOLD WELDMENT,4 HOLE,LOWER EUCC	1
19	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCCW	1
---	330644	TRACK WELDMENT, LH LOWER, MANIFOLD EUCC	1
20	329670	TRACK WELDMENT, RH LOWER, MANIFOLD EUCCW	1
---	330645	TRACK WELDMENT, RH LOWER, MANIFOLD EUCC	1
21	329672	TRACK WELDMENT, LH UPPER, MANIFOLD EUCCW	1
---	330641	TRACK WELDMENT, LH UPPER, MANIFOLD EUCC	1
22	329673	TRACK WELDMENT, RH UPPER, MANIFOLD EUCCW	1
---	330642	TRACK WELDMENT, RH UPPER, MANIFOLD EUCC	1
23	329674	BRACKET, LOWER MANIFOLD LATCH	2
24	329704	LATCH DEVP, UPPER MANIFOLD,5 HOLE	1
25	330680	STANDPIPE WELDMENT, C4	1
26	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCCW	1
---	330639	TUBE, PUMP DISCHARGE, WELDMENT EUCC	1
27	114692	GASKET, STANDPIPE	2



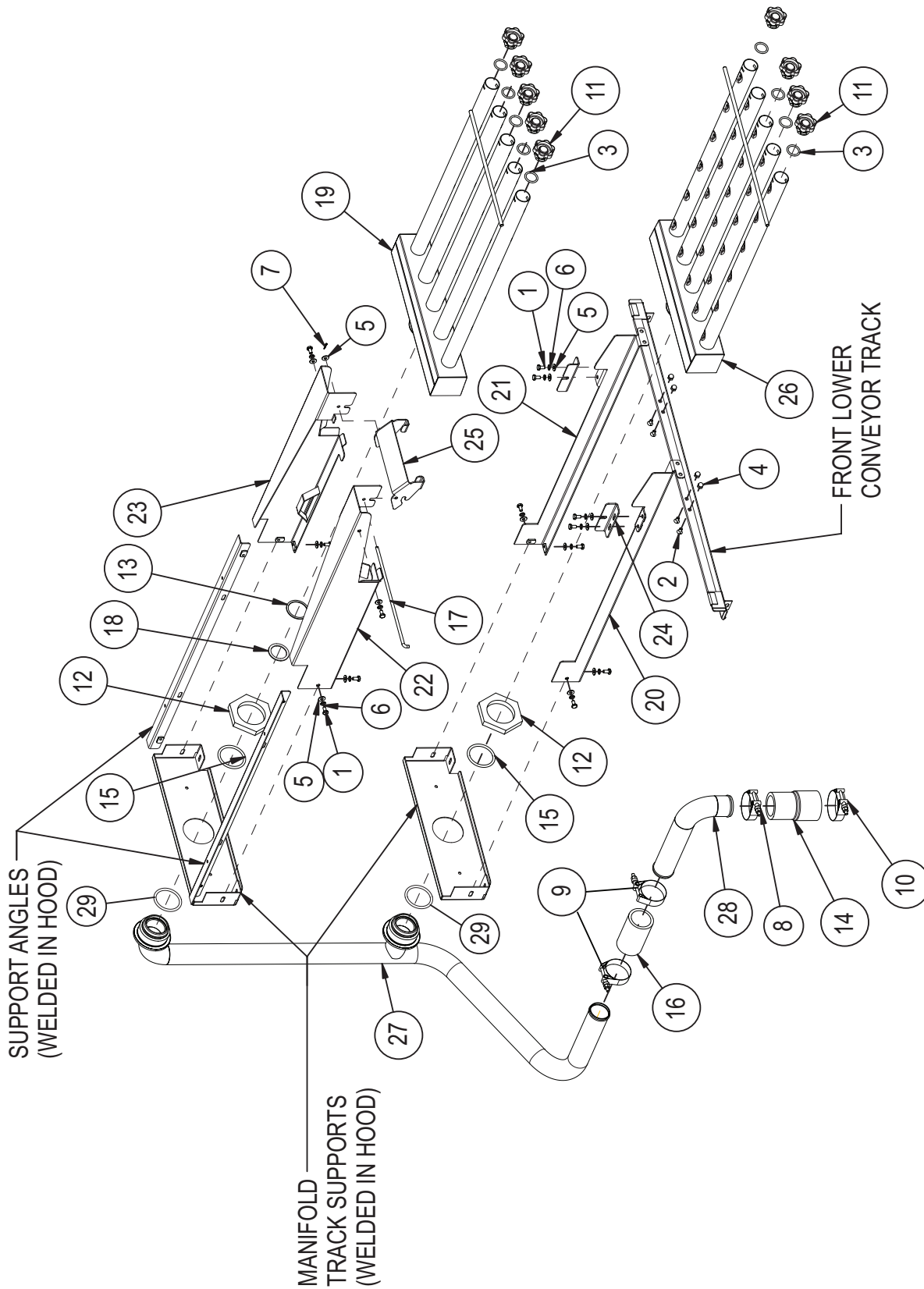
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	14
2	100755	SCREW,FLAT HEAD,1/4-20 X 1/2 SST	4
3	104414	O-RING,1 X 1 1/4 X 1/8	5
4	106014	HEX ACORN PLAIN NUT,1/4-20 SST	4
5	106026	WASHER,FLAT,1/4x5/8x.06 SST	15
6	106482	WASHER,LOCK,1/4 SPLIT,SST	14
7	108875	COTTER PIN,3/32 X 1/2 UNEVEN	1
8	110858	HOSE CLAMP,HIGH PRESSURE,0256	1
9	111780	HOSE CLAMP,HIGH PRESSURE,0238	2
10	111964	HOSE CLAMP,HIGH PRESSURE,0275	1
11	112240	PLUG, DEBOSSSED SPRAYPIPE	5
12	113911	LOCKNUT,2 1/2" , NPSL, SST	2
13	113912	RETAINING RING, INTERNAL, 2" BORE	2
14	113984	HOSE, DISCHARGE MOLDED E	1
15	114096	O-RING,2.225x.210 DIA.	2
16	202146	HOSE,1.875 ID X 5.375 LG.EPDM	1
17	206553	ROD, LATCH PIVOT,3 HOLE MANIFOLD	1
18	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCCW	1
---	330644	TRACK WELDMENT, LH LOWER, MANIFOLD EUCC	1
19	329670	TRACK WELDMENT, RH LOWER, MANIFOLD EUCCW	1
---	330645	TRACK WELDMENT, RH LOWER, MANIFOLD EUCC	1
20	329672	TRACK WELDMENT, LH UPPER, MANIFOLD EUCCW	1
---	330641	TRACK WELDMENT, LH UPPER, MANIFOLD EUCC	1
21	329673	TRACK WELDMENT, RH UPPER, MANIFOLD EUCCW	1
---	330642	TRACK WELDMENT, RH UPPER, MANIFOLD EUCC	1
22	329674	BRACKET, LOWER MANIFOLD LATCH	2
23	329696	MANIFOLD WELDMENT,3 HOLE,UPPER EUCCW	1
---	330637	MANIFOLD WELDMENT,3 HOLE,UPPER EUCC	1
24	329699	MANIFOLD WELDMENT,2 HOLE,LOWER EUCCW	1
---	330638	MANIFOLD WELDMENT,2 HOLE,LOWER EUCC	1
25	329705	LATCH DEVP, UPPER MANIFOLD,3 HOLE	1
26	330308	MANIFOLD RESTRICTOR, 0.781" ID	1
27	330309	MANIFOLD RESTRICTOR, 0.531" ID	1
28	330698	STANDPIPE WELDMENT,B-30 RL	1
29	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCCW	1
---	330679	TUBE, PUMP DISCHARGE, WELDMENT EUCC	1
30	114692	GASKET, STANDPIPE	2



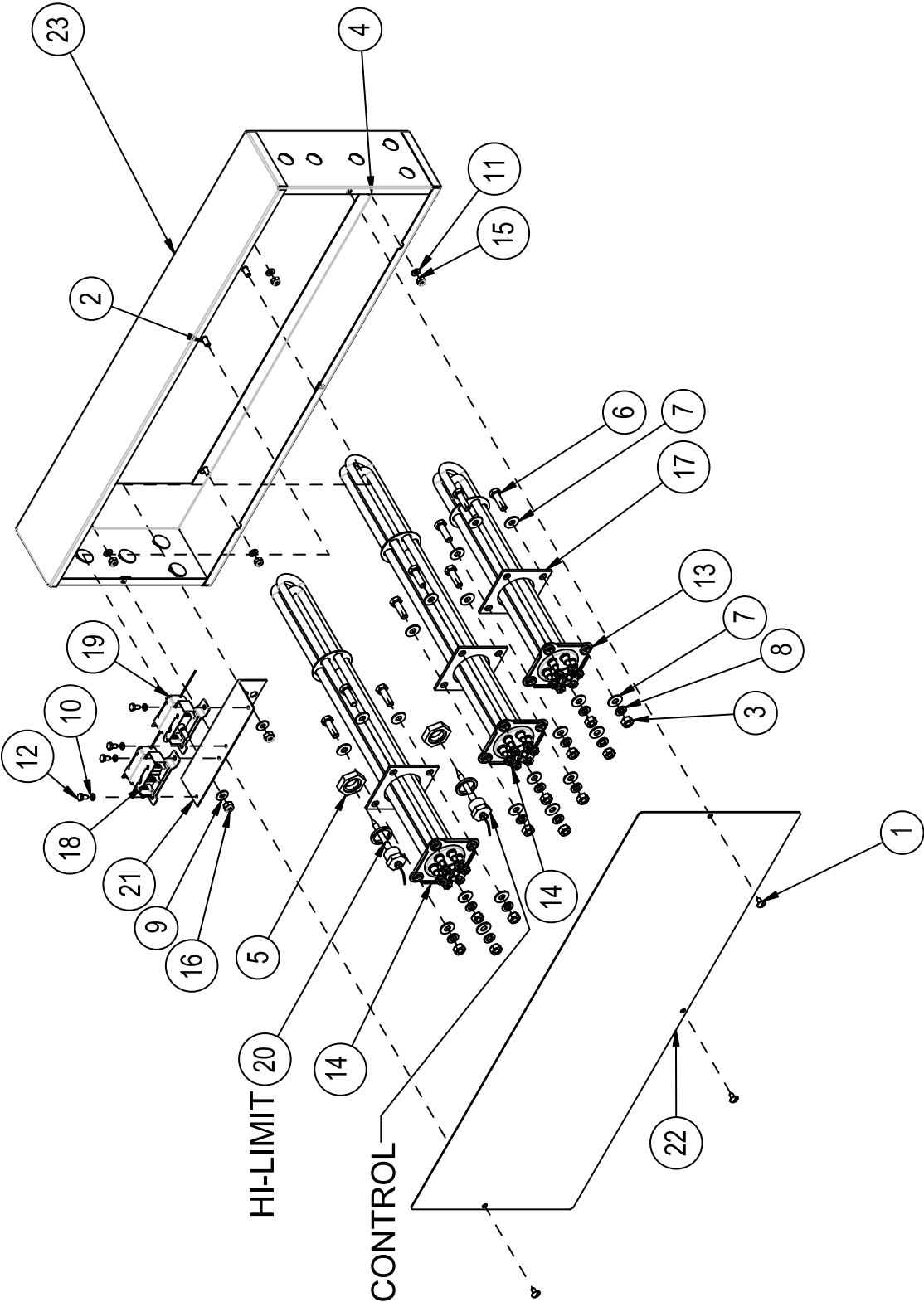
Item No.	Part No.	Description	Qty.
1	100734	CAP SCREW,HEX HEAD,1/4-20 X 1/2 SST	14
2	100755	SCREW,FLAT HEAD,1/4-20 X 1/2 SST	4
3	104414	O-RING,1 X 1 1/4 X 1/8	5
4	106014	HEX ACORN PLAIN NUT,1/4-20 SST	4
5	106026	WASHER,FLAT,1/4x5/8x.06 SST	15
6	106482	WASHER,LOCK,1/4 SPLIT,SST	14
7	108875	COTTER PIN,3/32 X 1/2 UNEVEN	1
8	110858	HOSE CLAMP,HIGH PRESSURE,0256	1
9	111780	HOSE CLAMP,HIGH PRESSURE,0238	2
10	111964	HOSE CLAMP,HIGH PRESSURE,0275	1
11	112240	PLUG, DEBOSSSED SPRAYPIPE	5
12	113911	LOCKNUT,2 1/2" , NPSL, SST	2
13	113912	RETAINING RING, INTERNAL, 2" BORE	2
14	113984	HOSE, DISCHARGE MOLDED E	1
15	114096	O-RING,2.225x.210 DIA.	2
16	202146	HOSE,1.875 ID X 5.375 LG.EPDM	1
17	206553	ROD, LATCH PIVOT,3 HOLE MANIFOLD	1
18	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCCW	1
---	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCC	1
19	330642	TRACK WELDMENT, RH LOWER, MANIFOLD EUCCW	1
---	329670	TRACK WELDMENT, RH LOWER, MANIFOLD EUCC	1
20	329672	TRACK WELDMENT, LH UPPER, MANIFOLD EUCCW	1
---	330645	TRACK WELDMENT, LH UPPER, MANIFOLD EUCC	1
21	329673	TRACK WELDMENT, RH UPPER, MANIFOLD EUCCW	1
---	330641	TRACK WELDMENT, RH UPPER, MANIFOLD EUCC	1
22	329674	BRACKET, LOWER MANIFOLD LATCH	2
23	329696	MANIFOLD WELDMENT,3 HOLE,UPPER EUCCW	1
---	330637	MANIFOLD WELDMENT,3 HOLE,UPPER EUCC	1
24	329699	MANIFOLD WELDMENT,2 HOLE,LOWER EUCCW	1
---	330638	MANIFOLD WELDMENT,2 HOLE,LOWER EUCC	1
25	329705	LATCH DEVP, UPPER MANIFOLD,3 HOLE	1
26	330308	MANIFOLD RESTRICTOR, 0.781" ID	1
27	330309	MANIFOLD RESTRICTOR, 0.531" ID	1
28	330699	STANDPIPE WELDMENT,B-30 LR	1
29	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCCW	1
---	330639	TUBE, PUMP DISCHARGE, WELDMENT EUCC	1
30	114692	GASKET, STANDPIPE	2



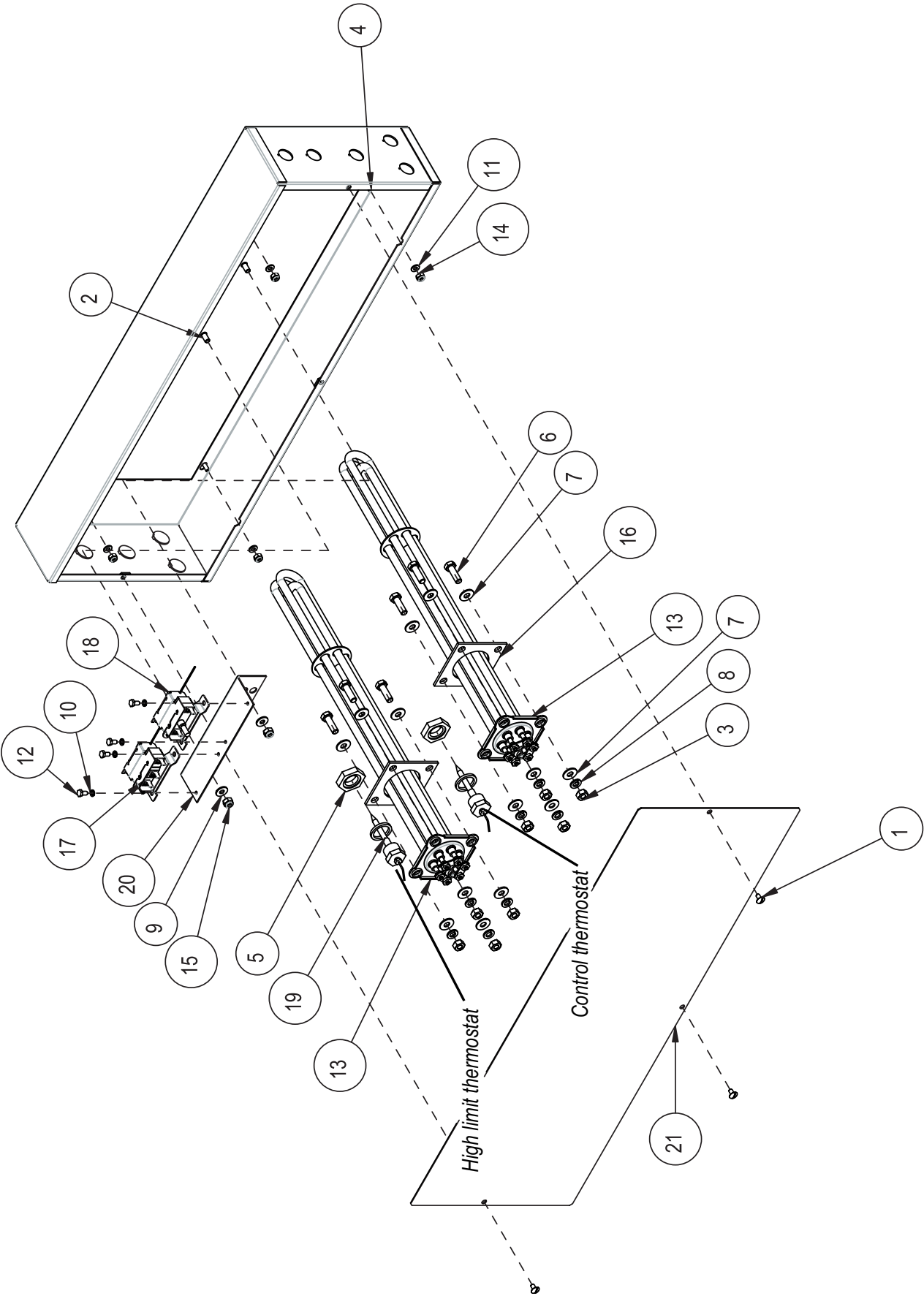
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	14
2	100755	SCREW,FLAT HEAD,1/4-20 X 1/2 SST	4
3	104414	O-RING,1 X 1 1/4 X 1/8	10
4	106014	HEX ACORN PLAIN NUT,1/4-20 SST	4
5	106026	WASHER,FLAT,1/4x5/8x.06 SST	15
6	106482	WASHER,LOCK,1/4 SPLIT,SST	14
7	108875	COTTER PIN,3/32 X 1/2 UNEVEN	1
8	110858	HOSE CLAMP,HIGH PRESSURE,0256	1
9	111780	HOSE CLAMP,HIGH PRESSURE,0238	2
10	111964	HOSE CLAMP,HIGH PRESSURE,0275	1
11	112240	PLUG, DEBOSSSED SPRAYPIPE	10
12	113911	LOCKNUT,2 1/2" , NPSL, SST	2
13	113912	RETAINING RING, INTERNAL, 2" BORE	1
14	113984	HOSE, DISCHARGE MOLDED E	1
15	114096	O-RING,2.225x.210 DIA.	2
16	202146	HOSE,1.875 ID X 5.375 LG.EPDM	1
17	206552	ROD, LATCH PIVOT,5 HOLE MANIFOLD	1
18	329659	MANIFOLD WELDMENT,5 HOLE,UPPER EUCCW	1
---	329659	MANIFOLD WELDMENT,5 HOLE,UPPER EUCC	1
19	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCCW	1
---	330632	TRACK WELDMENT, LH LOWER, MANIFOLD EUCC	1
20	329670	TRACK WELDMENT, RH LOWER, MANIFOLD EUCCW	1
---	330644	TRACK WELDMENT, RH LOWER, MANIFOLD EUCC	1
21	329672	TRACK WELDMENT, LH UPPER, MANIFOLD EUCCW	1
---	330641	TRACK WELDMENT, LH UPPER, MANIFOLD EUCC	1
22	329673	TRACK WELDMENT, RH UPPER, MANIFOLD EUCCW	1
---	330642	TRACK WELDMENT, RH UPPER, MANIFOLD EUCC	1
23	329674	BRACKET, LOWER MANIFOLD LATCH	2
24	329704	LATCH DEVP, UPPER MANIFOLD,5 HOLE	1
25	330467	MANIFOLD WELDMENT,5 HOLE,LOWER- EUCCW	1
---	330467	MANIFOLD WELDMENT,5 HOLE,LOWER- EUCC	1
26	330468	MANIFOLD RESTRICTOR, 1.188" ID	1
27	330680	STANDPIPE WELDMENT, C4	1
28	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCCW	1
---	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCC	1
29	114692	GASKET, STANDPIPE	2



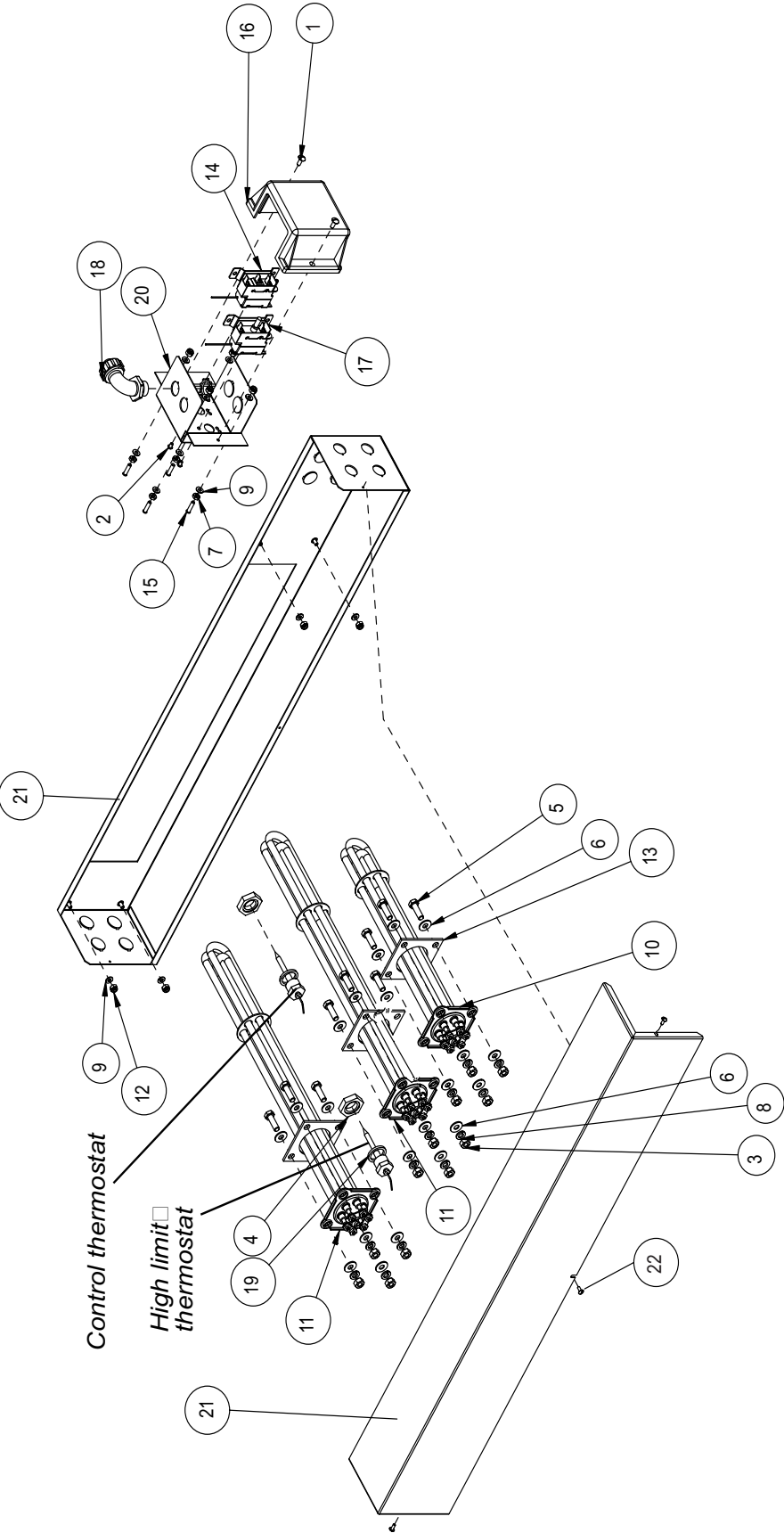
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	14
2	100755	SCREW,FLAT HEAD,1/4-20 X 1/2 SST	4
3	104414	O-RING,1 X 1 1/4 X 1/8	9
4	106014	HEX ACORN PLAIN NUT,1/4-20 SST	4
5	106026	WASHER,FLAT,1/4 x 5/8 x .06 SST	15
6	106482	WASHER,LOCK,1/4 SPLIT,SST	14
7	108875	COTTER PIN,3/32 X 1/2 UNEVEN	1
8	110858	HOSE CLAMP,HIGH PRESSURE,0256	1
9	111780	HOSE CLAMP,HIGH PRESSURE,0238	2
10	111964	HOSE CLAMP,HIGH PRESSURE,0275	1
11	112240	PLUG, DEBOSSSED SPRAYPIPE	9
12	113911	LOCKNUT,2 1/2" , NPSL, SST	2
13	113912	RETAINING RING, INTERNAL, 2" BORE	1
14	113984	HOSE, DISCHARGE MOLDED E	1
15	114096	O-RING,2.225x.210 DIA.	2
16	202146	HOSE,1.875 ID X 5.375 LG.EPDM	1
17	206552	ROD, LATCH PIVOT,5 HOLE MANIFOLD	1
18	328861	MANIFOLD RESTRICTOR, 1.5" ID	1
19	329659	MANIFOLD WELDMENT,5 HOLE,UPPER	1
20	329669	TRACK WELDMENT, LH LOWER, MANIFOLD EUCCW	1
21	329670	TRACK WELDMENT, RH LOWER, MANIFOLD EUCCW	1
22	329672	TRACK WELDMENT, LH UPPER, MANIFOLD EUCCW	1
23	329673	TRACK WELDMENT, RH UPPER, MANIFOLD EUCCW	1
24	329674	BRACKET, LOWER MANIFOLD LATCH	2
25	330186	LATCH DEVP, UPPER MANIFOLD,4 HOLE	1
26	330467	MANIFOLD WELDMENT,5 HOLE,LOWER EUCCW	1
27	330680	STANDPIPE WELDMENT, C4	1
28	330838	TUBE, PUMP DISCHARGE, WELDMENT EUCCW	1
---	330639	TUBE, PUMP DISCHARGE, WELDMENT EUCC	1
29	114692	GASKET, STANDPIPE	2



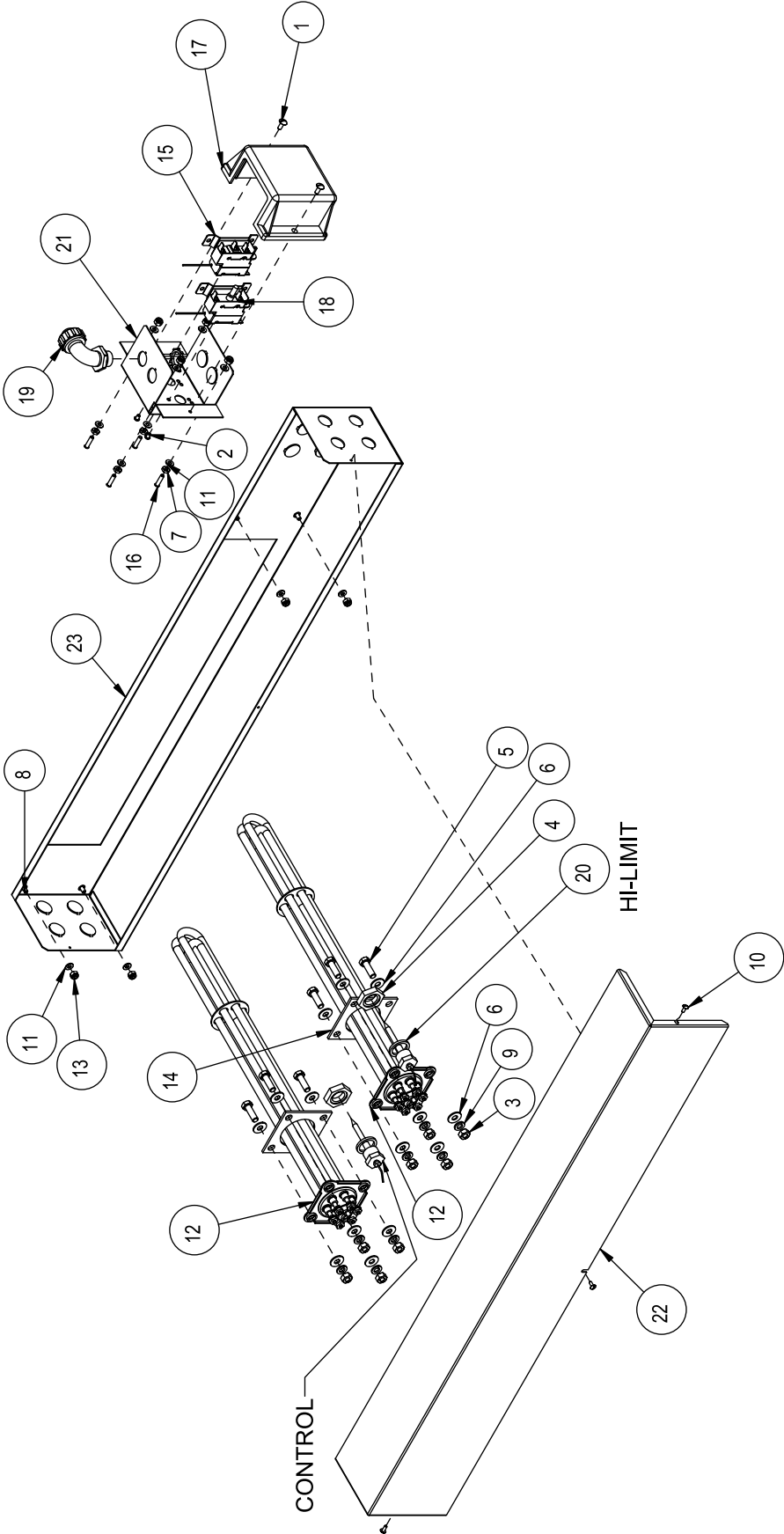
Item No.	Part No.	Description	Qty.
1	100007	SCREW,TRUSS HEAD,10-32 x 3/8 SST	3
2	100109	WELD-STUD,1/4-20 X 1/2 LG.SST	2
3	100154	HEX PLAIN NUT,5/16-18 SST	12
4	100198	WELD-STUD,10-32 X 1/2 LG.SST	4
5	100547	LOCKNUT,1/2" NPT,SST	2
6	100740	CAP SCREW,HEX HEAD,5/16-18 X 1 SST	12
7	102376	WASHER,FLAT,5/16x3/4x.06 SST	24
8	106013	WASHER,LOCK,5/16 SPLIT,SST	12
9	106026	WASHER,FLAT,1/4x5/8x.06 SST	2
10	106486	WASHER,LOCK,#10 SPLIT,SST	4
11	107033	WASHER,FLAT,.208X.438X.047 SST	4
12	107136	SCREW,HEX HEAD,10-32 x 3/8 SST	4
13	107839	TANK HEATER,RICA 5KW 208V/3ph	1
13	107840	TANK HEATER,RICA 5KW 240V/3ph	1
13	107842	TANK HEATER,RICA 5KW 480V/3ph	1
13	111123	TANK HEATER,RICA 5KW 575V/3ph	1
14	107951	TANK HEATER,RICA 10KW 208V/3ph	2
14	107844	TANK HEATER,RICA 10KW 240 V/3ph	2
14	107846	TANK HEATER,RICA 10KW 480 V/3ph	2
14	111120	TANK HEATER,RICA 10KW 575 V/3ph	2
15	107966	HEX GRIP NUT,10-32 SST W/NYLON	4
16	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	2
17	108345	GASKET,HEATER/STANDPIPE	3
18	109069	THERMOSTAT,CONTROL,WITH CAPILLARY	1
19	110561	THERMOSTAT,HI-LIMIT,WITH CAPILLARY	1
20	201041	WASHER,SPACER,7/8x1 3/16x1/8 NP	2
21	323430	BRACKET, THERMOSTATS,USN72,44CR	1
22	329768	COVER,HEATER BOX,C4-BKT	1
23	329769	HEATER BOX WELDMENT,C4-B	1



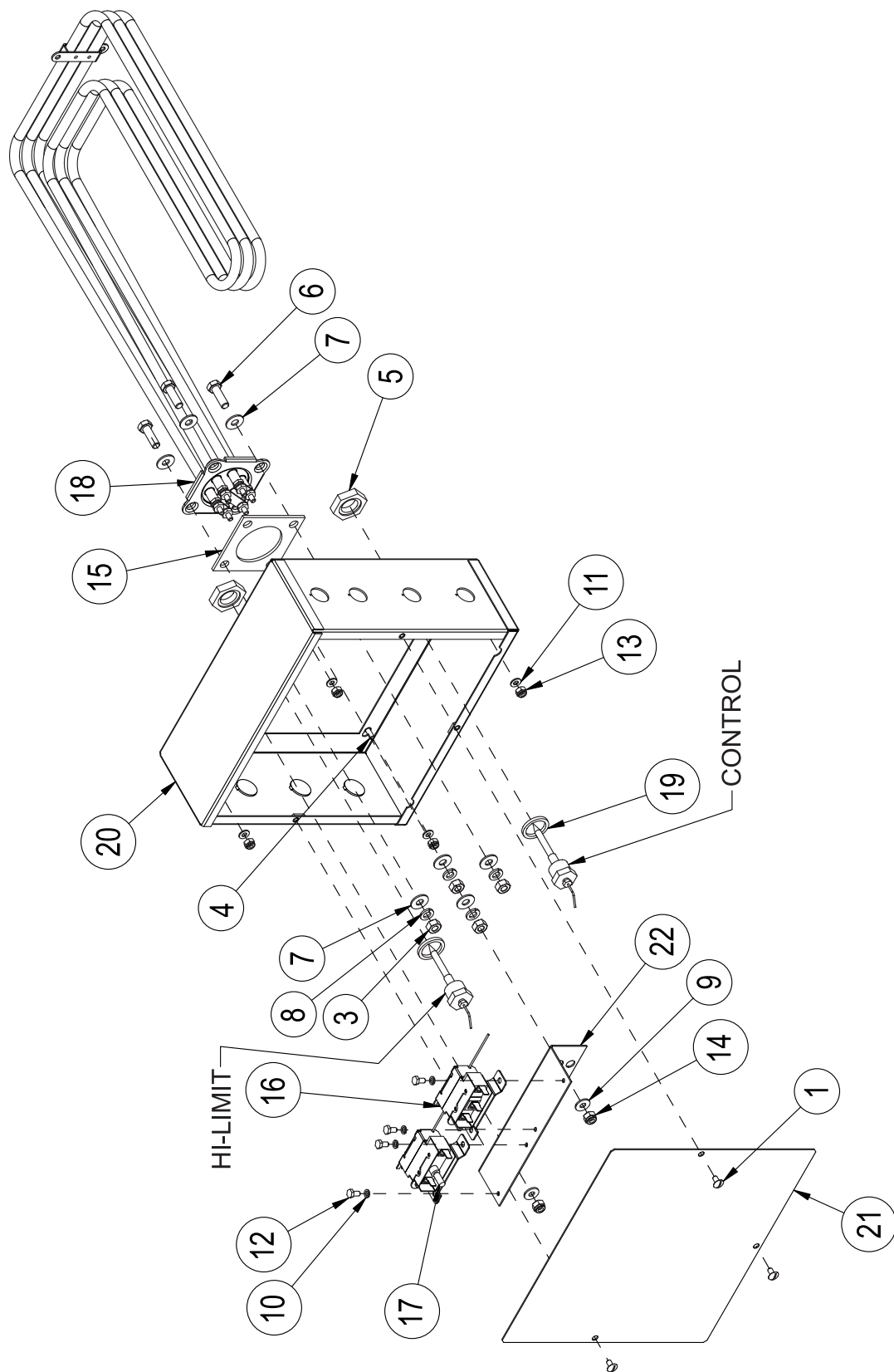
Item No.	Part No.	Description	Qty.
1	100007	SCREW,TRUSS HEAD,10-32 x 3/8 SST	3
2	100109	WELD-STUD,1/4-20 X 1/2 LG.SST	2
3	100154	HEX PLAIN NUT,5/16-18 SST	8
4	100198	WELD-STUD,10-32 X 1/2 LG.SST	4
5	100547	LOCKNUT,1/2" NPT,SST	2
6	100740	HEX HEAD,5/16-18 X 1 SST	8
7	102376	WASHER,FLAT,5/16x3/4x.06 SST	16
8	106013	WASHER,LOCK,5/16 SPLIT,SST	8
9	106026	WASHER,FLAT,1/4x5/8x.06 SST	2
10	106486	WASHER,LOCK,#10 SPLIT,SST	4
11	107033	WASHER,FLAT,.208X.438X.047 SST	4
12	107136	SCREW,HEX HEAD,10-32 x 3/8 SST	4
13	109751	TANK HEATER,RICA 10KW 208V	2
----	107844	TANK HEATER,RICA 10KW 240V	2
----	107846	TANK HEATER,RICA 10KW 480V	2
----	111120	TANK HEATER,RICA 10KW 575V	2
14	107966	HEX GRIP NUT,10-32 SST W/NYLON	4
15	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	2
16	108345	GASKET,HEATER/STANDPIPE	2
17	109069	THERMOSTAT,CONTROL,WITH CAPILLARY	1
18	110561	THERMOSTAT,HI-LIMIT,WITH CAPILLARY	1
19	201041	WASHER,SPACER,7/8x1 3/16x1/8 NP	2
20	323430	BRACKET, THERMOSTATS,USN72,44CR	1
21	329768	COVER,HEATER BOX,C4-BKT	1
22	329769	HEATER BOX WELDMENT,C4-B	1



Item No.	Part No.	Description	Qty.
1	100097	SCREW,TRUSS HEAD,10-32 x 1/2 SS T	2
2	100100	SCREW,ROUND HEAD,8-32 x 1/4 SS T	2
3	100154	HEX PLAIN NUT,5/16-18 SST	12
4	100547	LOCKNUT,1/2" NPT,SST	2
5	100740	HEX HEAD,5/16-18 X 1 SST	12
6	102376	WASHER,FLAT,5/16x3/4x.06 SST	24
7	104985	HEX PLAIN NUT,10-32 SST	4
8	106013	WASHER,LOCK,5/16 SPLIT,SST	12
9	107033	WASHER,FLAT,.208X.438X.047 SST	8
10	107839	TANK HEATER, RICA 5KW 208V 3PH	1
	107840	TANK HEATER, RICA 5KW 240V 3PH	1
	107842	TANK HEATER, RICA 5KW 480V 3PH	1
	111123	TANK HEATER, RICA 5KW 575V 3PH	1
11	107951	TANK HEATER, RICA 10KW 208V 3PH	2
	107844	TANK HEATER, RICA 10KW 240V 3PH	2
	107846	TANK HEATER, RICA 10KW 480V 3PH	2
	111120	TANK HEATER, RICA 10KW 575V 3PH	2
12	107966	HEX GRIP NUT,10-32 SST W/NYLON	4
13	108345	GASKET,HEATER/STANDPIPE	3
14	109069	THERMOSTAT,CONTROL,WITH CAPILLARY	1
15	109165	WELD-STUD,10-32 X 3/4 LG.SST	4
16	109682	THERMOSTAT COVER BOX	1
17	110561	THERMOSTAT,HI-LIMIT,WITH CAPILLARY	1
18	110837	ELBOW,1/2" CONDUIT,SEALTITE	1
19	201041	WASHER,SPACER,7/8x1 3/16x1/8 NP	2
20	314102	BOX,DUAL THERMOSTAT	1
21	453122	HEATER BOX ASSY,C4+BKT,ELEC	1

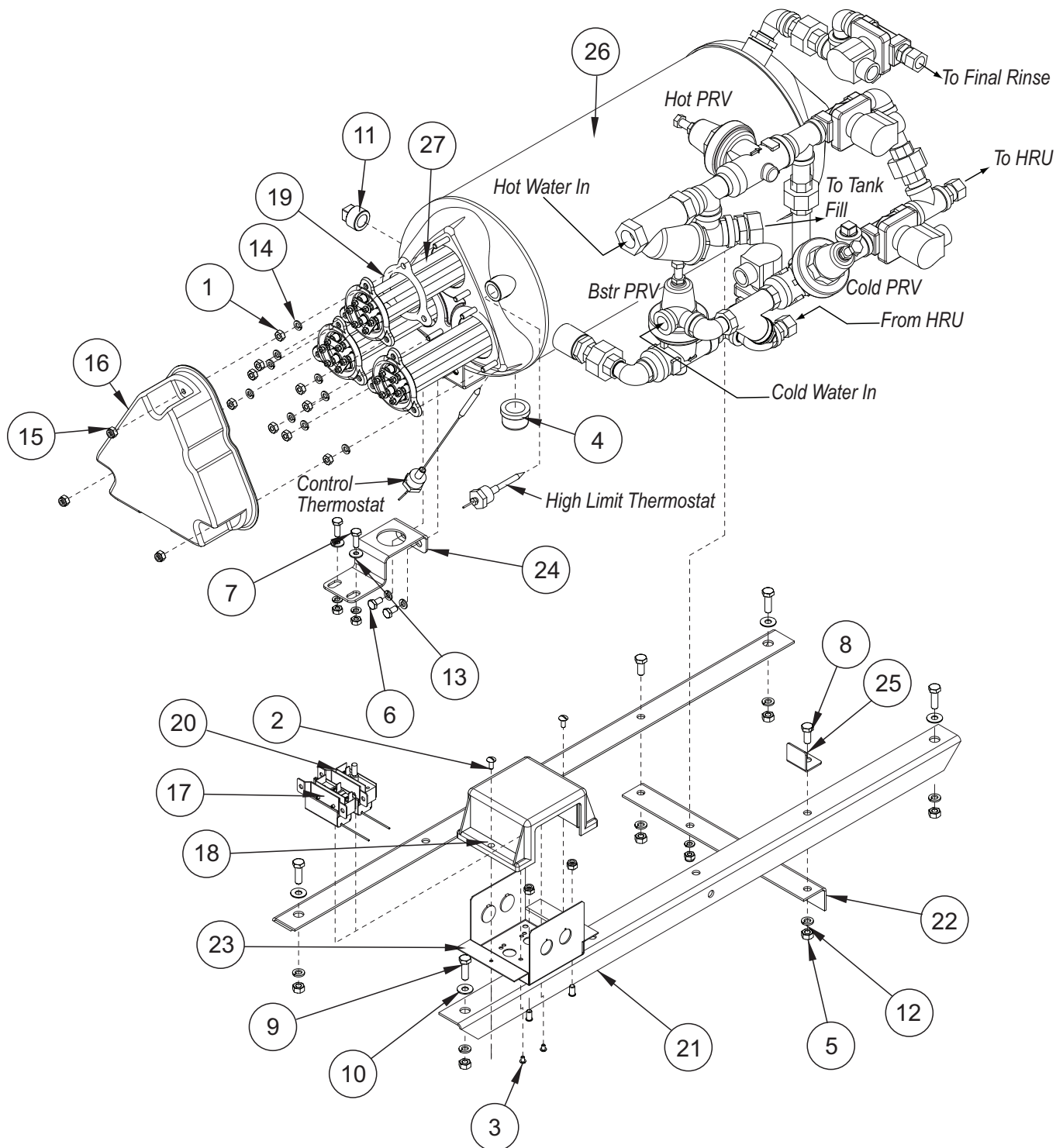


Item No.	Part No.	Description	Qty.
1	100097	SCREW,TRUSS HEAD,10-32 x 1/2 SST	2
2	100100	SCREW,ROUND HEAD,8-32 x 1/4 SST	2
3	100154	HEX PLAIN NUT,5/16-18 SST	8
4	100547	LOCKNUT,1/2" NPT,SST	2
5	100740	HEX HEAD,5/16-18 X 1 SST	8
6	102376	WASHER,FLAT,5/16x3/4x.06 SST	16
7	104985	HEX PLAIN NUT,10-32 SST	4
8	105695	WELD-STUD,10-32 X 3/8 LG.SST	4
9	106013	WASHER,LOCK,5/16 SPLIT,SST	8
10	106382	SCREW,TRUSS HEAD,6-32 x 3/8 SST	3
11	107033	WASHER,FLAT,.208X.438X.047 SST	12
12	109751	TANK HEATER,RICA 10KW 208V	2
----	107844	TANK HEATER,RICA 10KW 240V	2
----	107846	TANK HEATER,RICA 10KW 480V	2
----	111120	TANK HEATER,RICA 10KW 575V	2
13	107966	HEX GRIP NUT,10-32 SST W/NYLON	8
14	108345	GASKET,HEATER/STANDPIPE	2
15	109069	THERMOSTAT,CONTROL,WITH CAPILLARY	1
16	109165	WELD-STUD,10-32 X 3/4 LG.SST	4
17	109682	THERMOSTAT COVER BOX	1
18	110561	THERMOSTAT,HI-LIMIT,WITH CAPILLARY	1
19	110837	ELBOW,1/2" CONDUIT,SEALTITE	1
20	201041	WASHER,SPACER,7/8x1 3/16x1/8 NP	2
21	314102	BOX,DUAL THERMOSTAT	1
22	329766	COVER,HEATER BOX,C4+B,ELEC	1
23	329767	HEATER BOX WELDMENT,C4+B,ELEC	1



Item No.	Part No.	Description	Qty.
1	100007	SCREW,TRUSS HEAD,10-32 x 3/8 SST	3
2	100109	WELD-STUD,1/4-20 X 1/2 LG.SST	2
3	100154	HEX PLAIN NUT,5/16-18 SST	4
4	100198	WELD-STUD,10-32 X 1/2 LG.SST	4
5	100547	LOCKNUT,1/2" NPT,SST	2
6	100740	HEX HEAD,5/16-18 X 1 SST	4
7	102376	WASHER,FLAT,5/16x3/4x.06 SST	8
8	106013	WASHER,LOCK,5/16 SPLIT,SST	4
9	106026	WASHER,FLAT,1/4x5/8x.06 SST	2
10	106486	WASHER,LOCK,#10 SPLIT,SST	4
11	107033	WASHER,FLAT,.208X.438X.047 SST	4
12	107136	SCREW,HEX HEAD,10-32 x 3/8 SST	4
13	107966	HEX GRIP NUT,10-32 SST W/NYLON	4
14	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	2
15	108345	GASKET,HEATER/STANDPIPE	1
16	109069	THERMOSTAT,CONTROL,WITH CAPILLARY	1
17	110561	THERMOSTAT,HI-LIMIT,WITH CAPILLARY	1
18	113804	HEATER,10/12.1 kW, 200-220V	1
	113882	HEATER,10/11 kW, 230/240V	1
	113883	HEATER,10/11 kW, 460/480	1
	113884	HEATER,10/11 kW 575V	1
19	201041	WASHER,SPACER,7/8x1 3/16x1/8 NP	2
20	322811	HEATER BOX WELDMENT,E2-B	1
21	322812	COVER,HEATER BOX,E2-BKT	1
22	323430	BRACKET, THERMOSTATS,USN72,44CR	1

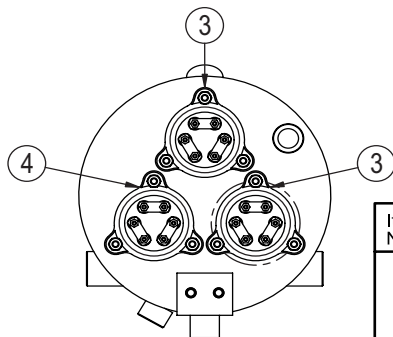
Electric Booster Installation Right-Left



Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT 1/4-20 SST	11
2	100097	SCREW, TRUSS HD. 10-32 X 1/2" SST	2
3	100100	SCREW, ROUND HD., 8-32 X 1/4" SST	2
4	100113	CAP, 3/4" NPT SST	1
5	100154	HEX PLAIN NUT, 5/16-18 SST	6
6	100734	BOLT, HEX HD., 1/4-20 X 1/2" SST	2
7	100736	BOLT, HEX HD., 1/4-20 X 3/4" SST	2
8	100739	BOLT, HEX HD., 5/16-18 X 3/4" SST	2
9	100740	BOLT, HEX HD., 5/16-18 X 1" SST	4
10	102376	WASHER, FLAT 5/16-18 SST	4
11	102505	PLUG, 3/4" NPT SQ. HD., BRASS	1
12	106013	WASHER, LOCK SPLIT 5/16" SST	6
13	106026	WASHER, FLAT 1/4" SST	2
14	106482	WASHER, LOCK SPLIT 1/4" SST	2
15	107967	HEX GRIP NUT, 1/4-20 SST W/NYLON	14
16	108576	COVER, BOOSTER HEATER	1
17	109069	THERMOSTAT, CONTROL	1
18	109682	COVER, THERMOSTAT BOX	1
19	109985	O-RING, BOOSTER HEATER ELEMENT	3
20	110561	THERMOSTAT, HIGH LIMIT	1
21	206668	ANGLE, ELECTRIC BOOSTER SUPPORT	1
22	206919	ANGLE, ELECTRIC BOOSTER SUPPORT, D3	1
23	314102	BOX, DUAL THERMOSTAT	1
24	328254	BRACKET, BOOSTER SUPPORT W/HOLE	1
25	330571	BRACKET, PIPING SUPPORT ELEC. BOOSTER	1
26	414331	TANK, BOOSTER	1
27	111232	ELEMENT, BOOSTER 10KW, 208/60/3	3

NOTE:

The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4

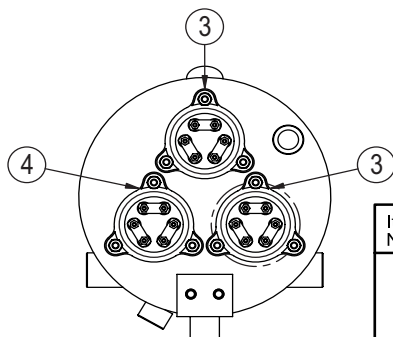


EUCC-4 / EUCC-3
40°F / 22° Rise

BOOSTER ASSY,ELEC,R-L,16kW@208V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	107909	HEATER 6KW/8KW, 208/240V,3PH BOOSTER	1
4	111235	HEATER 5KW/6.6KW, 208/240V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3

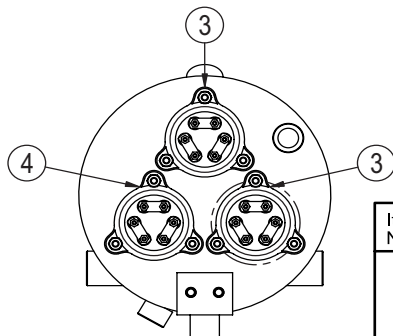


EUCC-4 / EUCC-3
40°F / 22° Rise

BOOSTER ASSY,ELEC,R-L,16kW@240V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	114030	HEATER 6KW, 240V,3PH BOOSTER	1
4	111236	HEATER 5KW, 240V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3



EUCC-4 / EUCC-3
40°F / 22° Rise

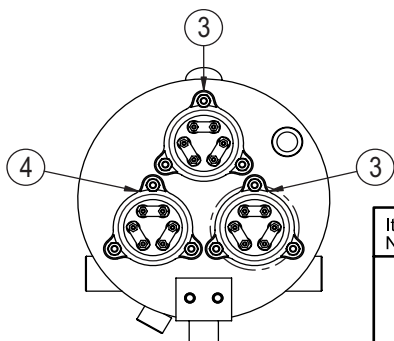
BOOSTER ASSY,ELEC,R-L,16kW@480V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	114031	HEATER 6KW, 480V,3PH BOOSTER	1
4	111237	HEATER 5KW, 480V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3

NOTE:

The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4

*EUCC-4 / EUCC-3**70°F / 39° Rise***BOOSTER ASSY,ELEC,R-L,28kW@208V**

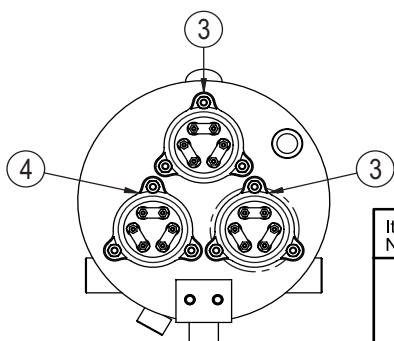
Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111334	HEATER 9KW/12KW, 208/240V,3PH BOOSTER	2
4	111232	HEATER 10KW, 208V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383

HEATER 10 KW, 575/60/3

112061

HEATER 12 KW, 575/60/3

*EUCC-4 / EUCC-3**70°F / 39° Rise***BOOSTER ASSY,ELEC,R-L,28kW@240V**

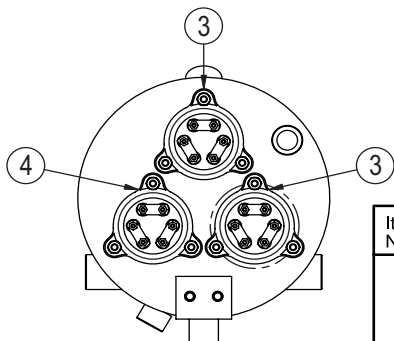
Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111305	HEATER 9KW, 240V,3PH BOOSTER	2
4	111233	HEATER 7.5KW10KW, 208V-240V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383

HEATER 10 KW, 575/60/3

112061

HEATER 12 KW, 575/60/3

*EUCC-4 / EUCC-3**70°F / 39° Rise***BOOSTER ASSY,ELEC,R-L,28kW@480V**

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	108579	HEATER 9KW, 480V,3PH BOOSTER	2
4	111234	HEATER 10KW, 480V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383

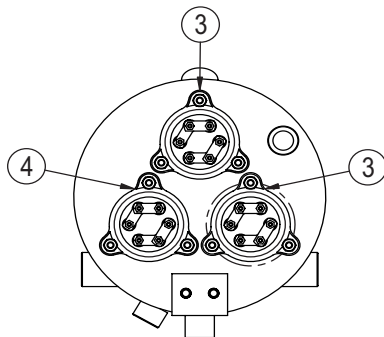
HEATER 10 KW, 575/60/3

112061

HEATER 12 KW, 575/60/3

NOTE:

**The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4**



EUCCW-6 / EUCC-6

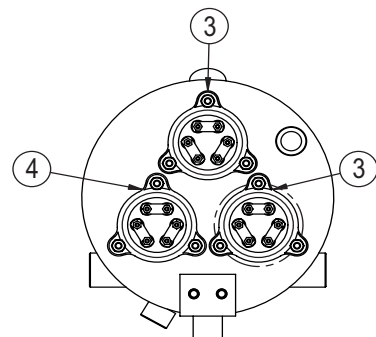
EUCCW-4 / EUCC-4

70°F / 39° Rise

BOOSTER ASSY,ELEC,R-L,25kW@208V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111232	HEATER 10KW 208V,3PH BOOSTER	2
4	111235	HEATER 5KW _6.5KW, 208/240V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383 HEATER 10 KW, 575/60/3
111384 HEATER 5 KW, 575/60/3



EUCCW-6 / EUCC-6

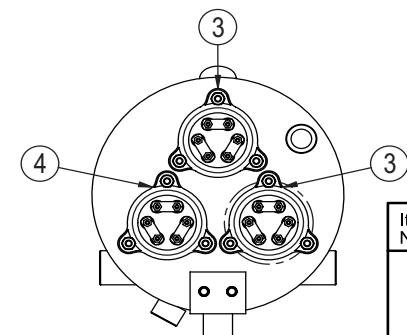
EUCCW-4 / EUCC-4

70°F / 39° Rise

BOOSTER ASSY,ELEC,R-L,25kW@240V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111233	HEATER 7.5KW_10KW 208/240V,3PH BOOSTER	2
4	111236	HEATER 5KW_10KW, 240V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383 HEATER 10 KW, 575/60/3
111384 HEATER 5 KW, 575/60/3



EUCCW-6 / EUCC-6

EUCCW-4 / EUCC-4

70°F / 39° Rise

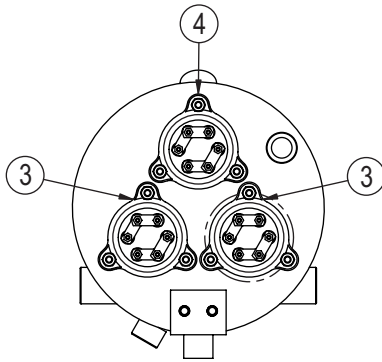
BOOSTER ASSY,ELEC,R-L,25kW@480V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111234	HEATER 10KW, 480V,3PH BOOSTER	2
4	111237	HEATER 5KW, 480V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383 HEATER 10 KW, 575/60/3
111384 HEATER 5 KW, 575/60/3

NOTE:

The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4

*EUCCW-8 / EUCC-8**70°F / 39° Rise*

BOOSTER ASSY,ELEC,R-L,32kW@208V

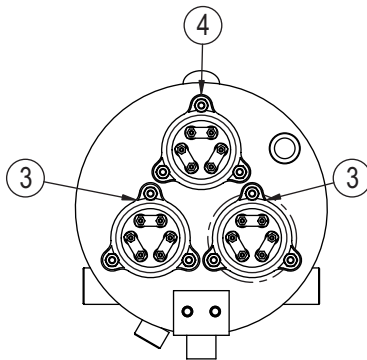
Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111232	HEATER 10KW 208V,3PH BOOSTER	2
4	112059	HEATER 12KW, 208V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383

HEATER 10 KW, 575/60/3

112061

HEATER 12 KW, 575/60/3

*EUCCW-8 / EUCC-8**70°F / 39° Rise*

BOOSTER ASSY,ELEC,R-L,32kW@240V

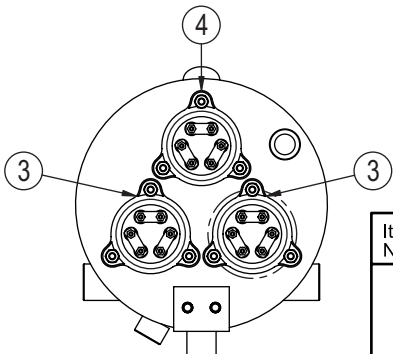
Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111233	HEATER 7.5KW_10KW 208/240V,3PH BOOSTER	2
4	111334	HEATER 9KW_12KW, 208/240V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383

HEATER 10 KW, 575/60/3

112061

HEATER 12 KW, 575/60/3

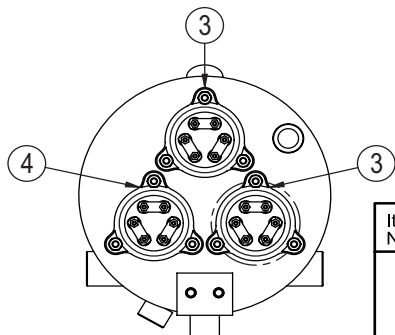
*EUCCW-8 / EUCC-8**70°F / 39° Rise*

BOOSTER ASSY,ELEC,R-L,32kW@480V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111234	HEATER 10KW, 480V,3PH BOOSTER	2
4	112060	HEATER 12KW, 480V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

NOTE:

The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4



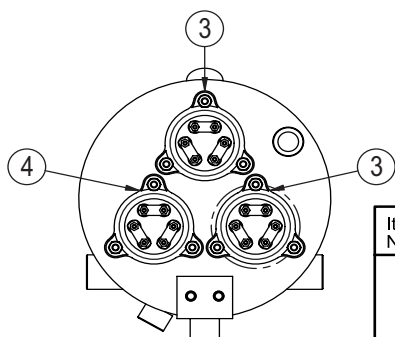
EUCC-4 / EUCC-3

40°F / 22° Rise

BOOSTER ASSY,ELEC,R-L,16kW@208V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	107909	HEATER 6KW/8KW, 208/240V,3PH BOOSTER	1
4	111235	HEATER 5KW/6.6KW, 208/240V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3



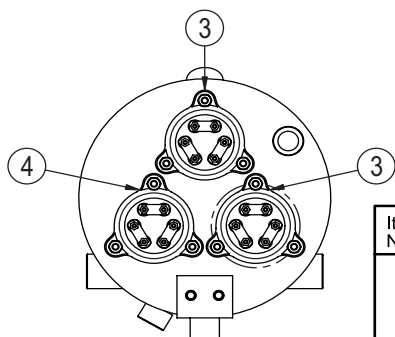
EUCC-4 / EUCC-3

40°F / 22° Rise

BOOSTER ASSY,ELEC,R-L,16kW@240V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	114030	HEATER 6KW, 240V,3PH BOOSTER	1
4	111236	HEATER 5KW, 240V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3



EUCC-4 / EUCC-3

40°F / 22° Rise

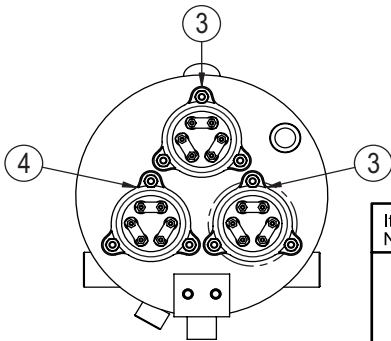
BOOSTER ASSY,ELEC,R-L,16kW@480V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	114031	HEATER 6KW, 480V,3PH BOOSTER	1
4	111237	HEATER 5KW, 480V,3PH BOOSTER	2
5	414331	TANK, BOOSTER	1

111383 HEATER 5KW, 575/60/3
114032 HEATER 6KW, 575/60/3

NOTE:

The location of a booster heater element is critical for the proper repair of the booster.
VERIFY THE LOCATION OF ITEM NO. 3 & 4

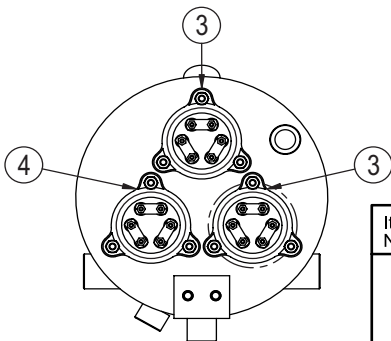


EUCC-4 / EUCC-3
 70°F / 39° Rise

BOOSTER ASSY,ELEC,R-L,28kW@208V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111334	HEATER 9KW/12KW, 208/240V,3PH BOOSTER	2
4	111232	HEATER 10KW, 208V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383 HEATER 10 KW, 575/60/3
 112061 HEATER 12 KW, 575/60/3

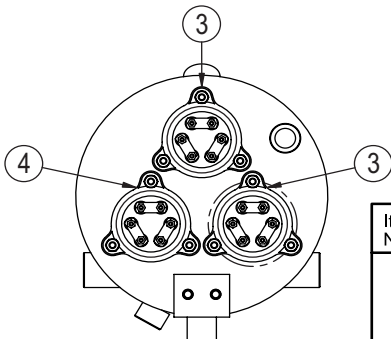


EUCC-4 / EUCC-3
 70°F / 39° Rise

BOOSTER ASSY,ELEC,R-L,28kW@240V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	111305	HEATER 9KW, 240V,3PH BOOSTER	2
4	111233	HEATER 7.5KW/10KW, 208V-240V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

111383 HEATER 10 KW, 575/60/3
 112061 HEATER 12 KW, 575/60/3

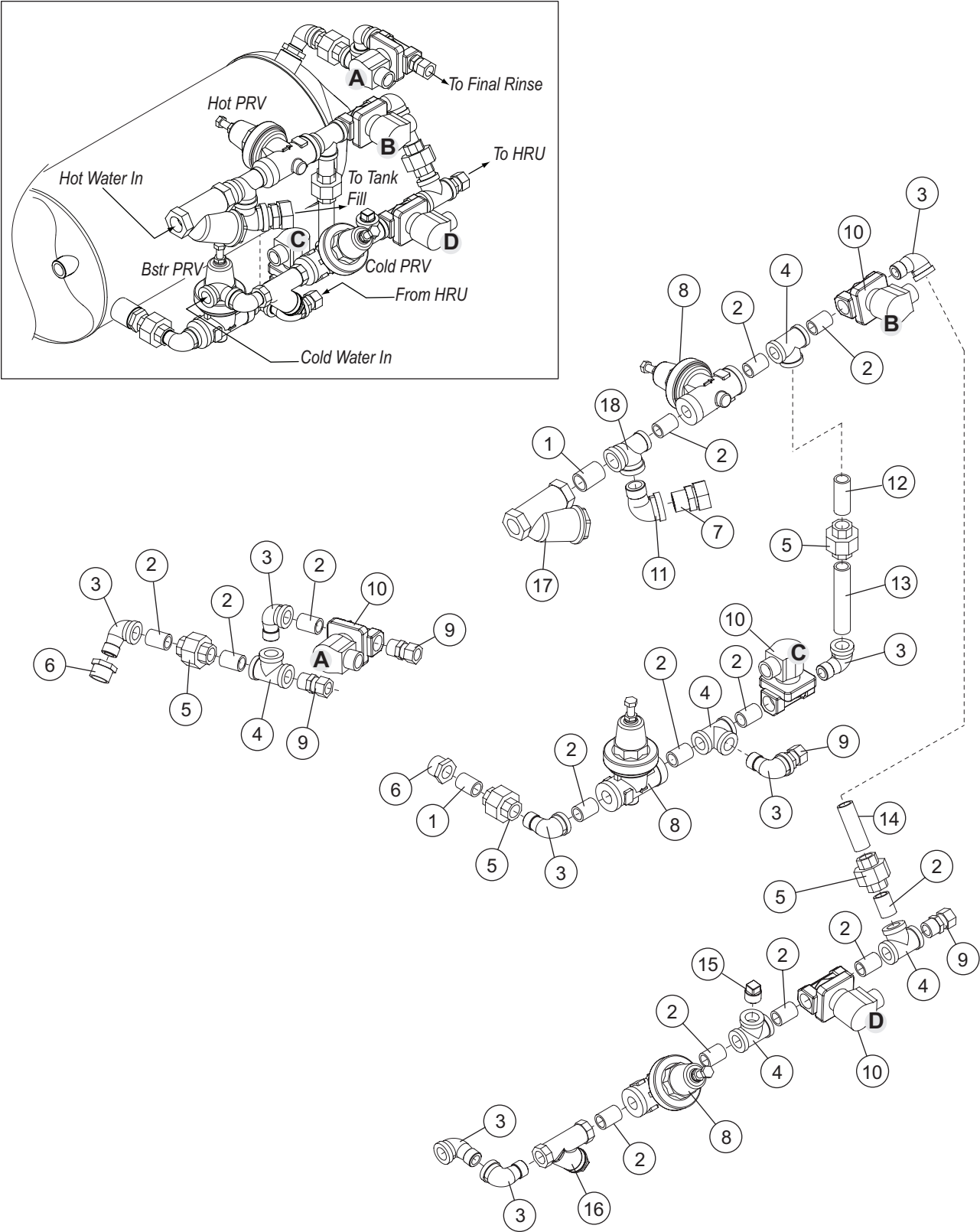


EUCC-4 / EUCC-3
 70°F / 39° Rise

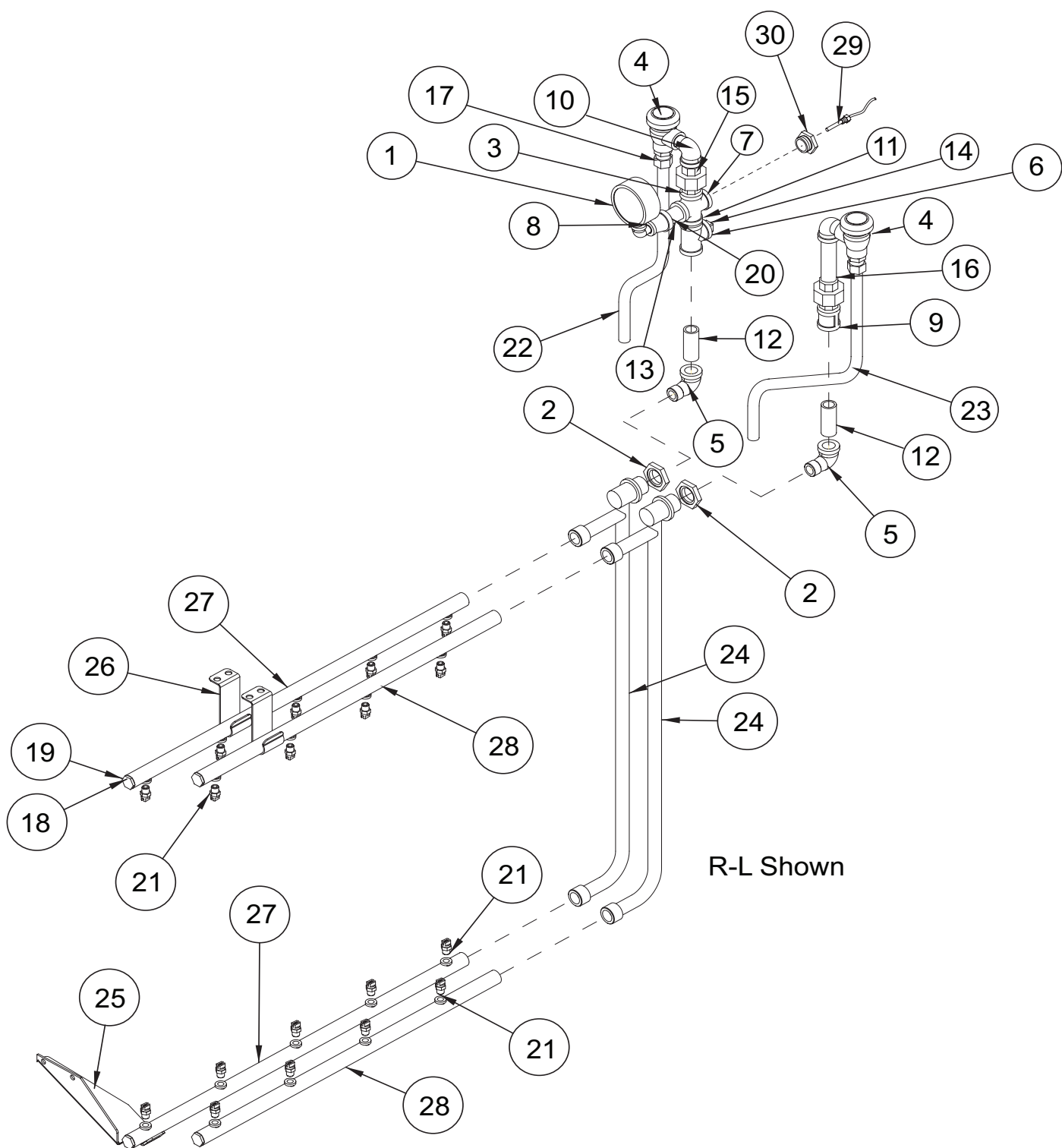
BOOSTER ASSY,ELEC,R-L,28kW@480V

Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT, 1/4-20 SST	9
2	106482	WASHER, LOCK, 1/4 SPLIT SST	9
3	108579	HEATER 9KW, 480V,3PH BOOSTER	2
4	111234	HEATER 10KW, 480V,3PH BOOSTER	1
5	414331	TANK, BOOSTER	1

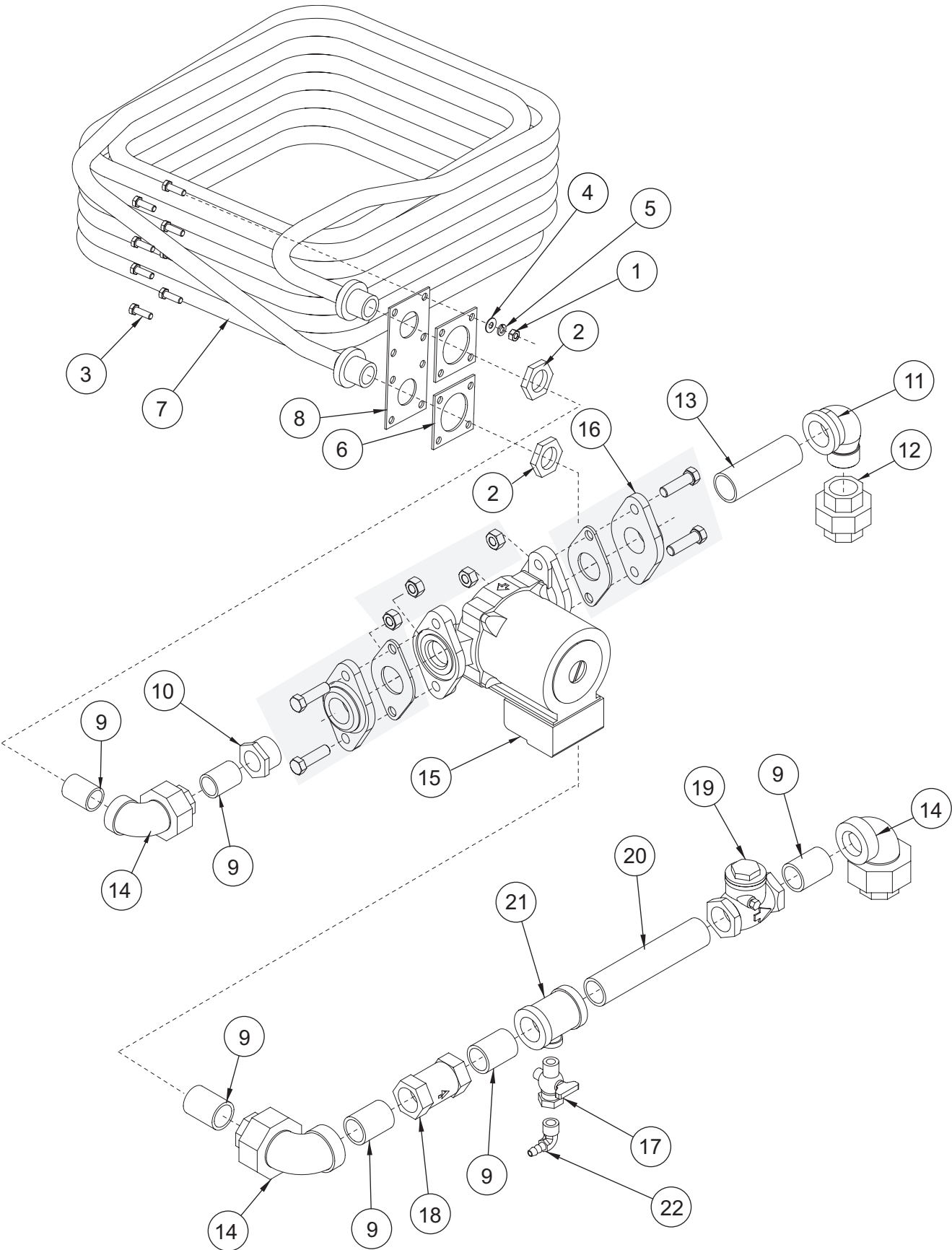
111383 HEATER 10 KW, 575/60/3
 112061 HEATER 12 KW, 575/60/3



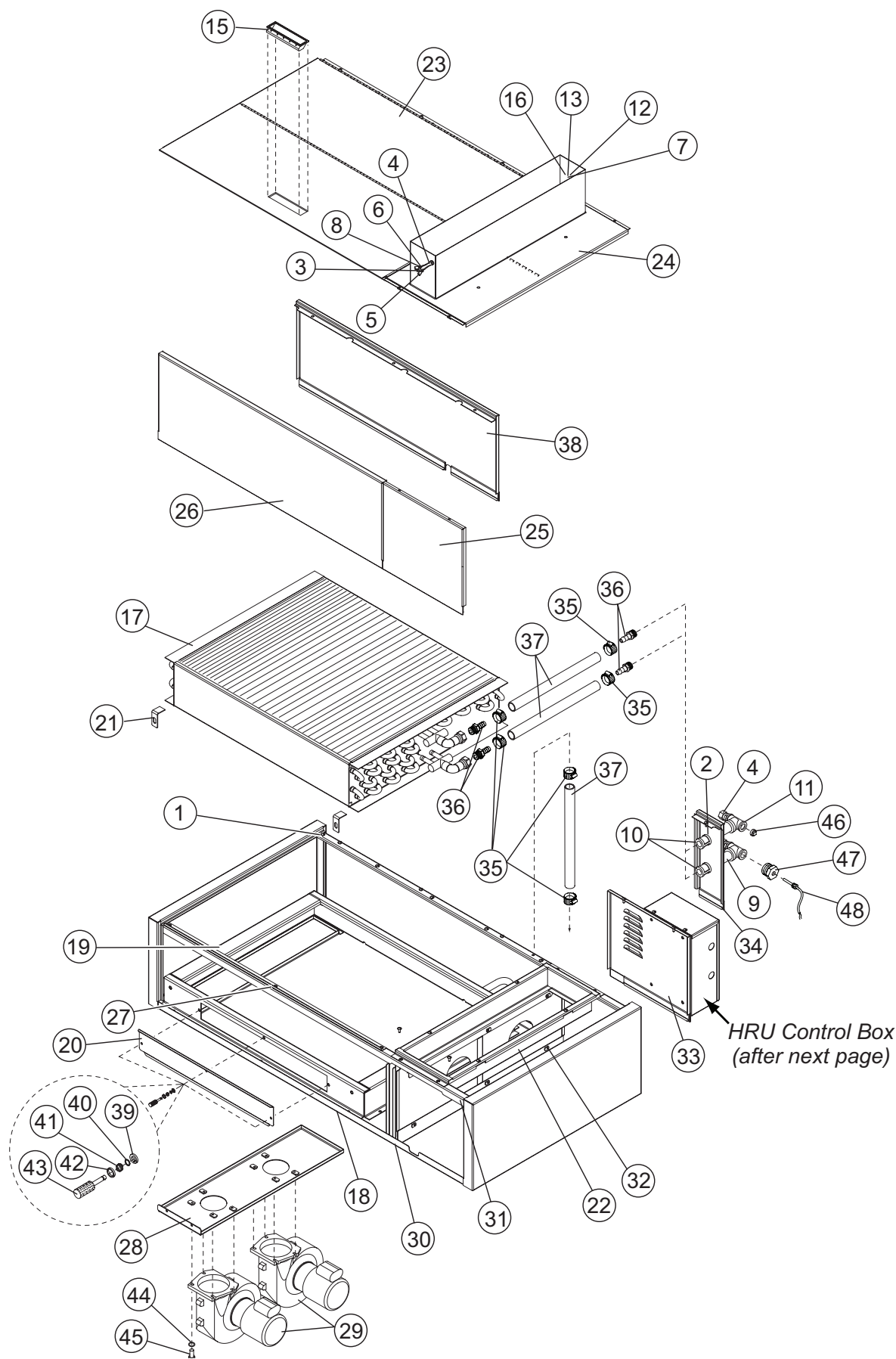
Item No.	Part No.	Description	Qty.
1	100184	NIPPLE, 3/4" NPT X CLOSE, BRASS	2
2	100209	NIPPLE, 1/2" NPT X CLOSE, BRASS	14
3	102438	ELBOW, STREET, 1/2" NPT X 90°, BRASS	8
4	102514	TEE, 1/2" NPT BRASS	5
5	102549	UNION, 1/2" NPT, BRASS	4
6	102392	BUSHING, REDUCING 3/4" NPT X 1/2" NPT, BRASS	2
7	109879	FITTING, COMP. 7/8" OD X 3/4" MPT, BRASS	1
8	108265	VALV, PRESSURE REGULATING, 1/2" NPT BRONZE	3
9	109925	FITTING, COMP., 5/8" OD X 1/2" MPT BRASS	4
10	111352	VALVE, SOLENOID 1/2" NPT 115V BRASS	4
---	109902	KIT, REPAIR, 1/2" SOLENOID VALVE	A/R
---	108516	COIL, SOLENOID VALVE 1/2" NPT 115V	A/R
11	102444	ELBOW STREET, 1/2" NPT 90°, BRASS	1
12	102492	NIPPLE, 1/2" NPT X 2" LG. BRASS	1
13	102570	NIPPLE, 1/2" NPT X 4" LG. BRASS	1
14	100206	NIPPLE, 1/2" NPT X 2-1/1" LG. BRASS	1
15	102504	PLUG, 1/2" NPT, SQ. HD. BRASS	1
16	104421	STRAINER, LINE, 1/2" NPT BRONZE	1
17	110768	STRAINER, LINE, 3/4" NPT BRONZE	1
18	102525	TEE, RED, 3/4" X 1/2" X 1/2" NPT BRONZE	1



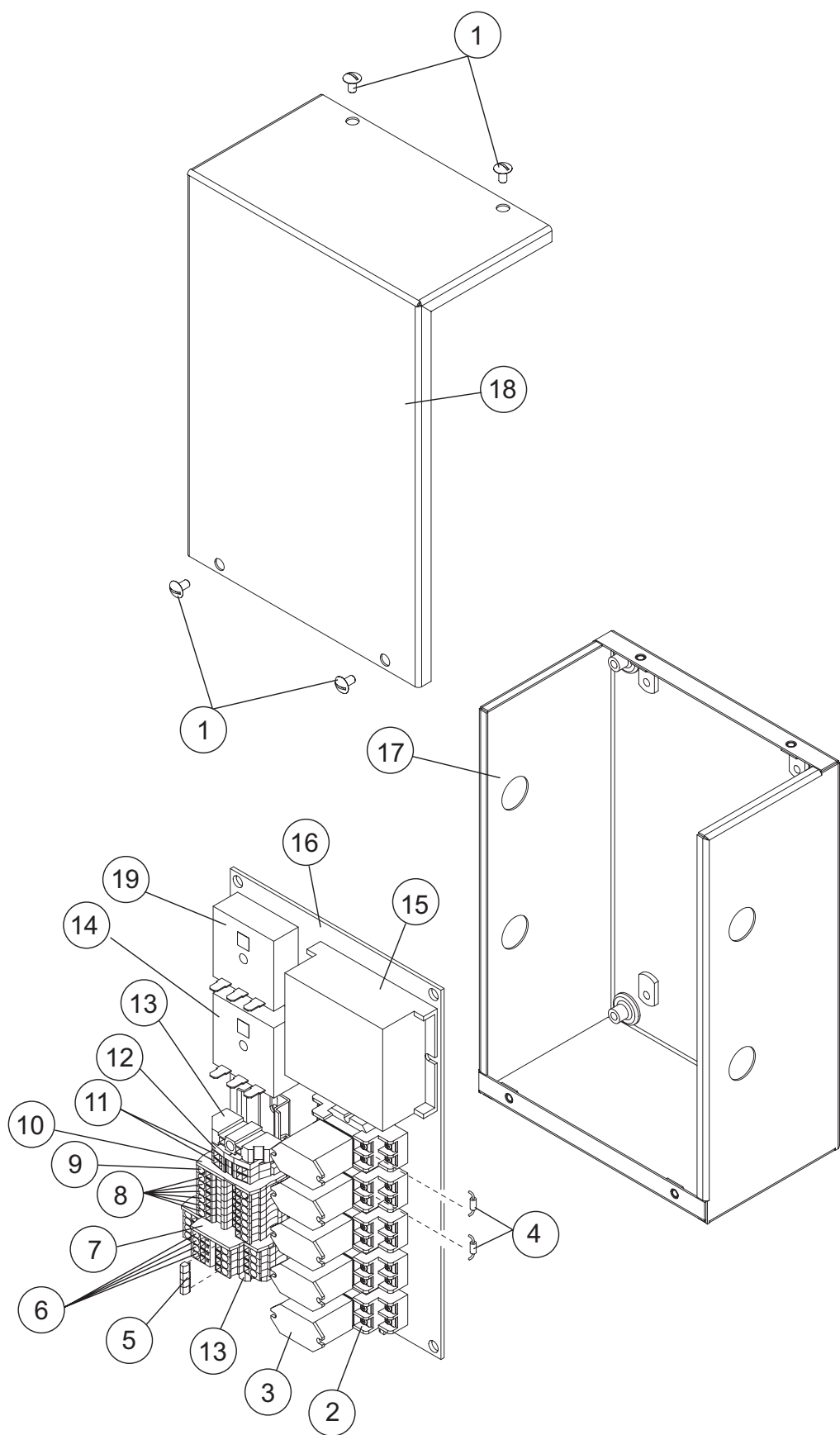
Item No.	Part No.	Description	Qty.
1	100135	GAUGE, PRESSURE 0-60 PSI	1
2	100156	LOCKNUT, 3/4" NPT BRASS	2
3	100209	NIPPLE, 1/2" NPT CLOSE, BRASS	3
4	100500	BREAKER, VACUUM 1/2" NPT BRONZE	1
---	900836	KIT, REPAIR VACUUM BREAKER, 1/2"	A/R
5	100516	ELBOW, STREET, 1/2" NPT X 90° SST	2
6	100554	TEE, 1/2" NPT SST	1
7	100598	CROSS, 1/2" NPT BRASS	1
8	101261	ELBOW, STREET 1/4" NPT X 90° BRASS	1
9	102412	COUPLING, NPT BRASS	1
10	102438	ELBOW, STREET 1/2" NPT X 90° BRASS	2
11	102459	NIPPLE, 1/2" NPT X CLOSE SST	1
12	102461	NIPPLE, 1/2" NPT X 2" LG., SST	2
13	102492	NIPPLE, 1/2" NPT 2" LG., BRASS	1
14	102504	PLUG, 1/2" NPT SQUARE HD., BRASS	1
15	102549	UNION, 1/2" NPT, BRASS	2
16	102570	NIPPLE, 1/2" NPT X 4" LG., BRASS	1
17	109925	FITTING, COMP. 5/8" OD X 1/2" NPT BRASS	2
18	113716	O-RING	4
19	113795	PLUG, E FINAL RINSE MANIFOLD	4
20	114182	COUPLING, RED. 1/2" NPT X 1/4" NPT, BRASS	1
21	114483	NOZZLE, VEE-JET #9502	18
22	206655	TUBE, FINAL RINSE SUPPLY	1
23	206972	TUBE, FINAL RINSE #2 SUPPLY	1
24	329800	MANIFOLD, WELDMENT , E2 FRESH	2
25	330551-2	BRACKET, LOWER PIPE SUPPORT E2	1
26	330553	BRACKET, FINAL RINSE UPPER PIPE	2
27	332603	PIPE, WELDMENT, FINAL RINSE 5-HOLE	2
28	332604	PIPE, WELDMENT, PRE-FINAL RINSE 4-HOLE	2
29	114435	THERMISTOR, 10K 36" LEAD	1
30	0512299	ADAPTER	1



Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT, 5/16-18 SST	8
2	100585	LOCKNUT, 1" NPT BRASS	2
3	100740	BOLT, HEX DF. 5/16-18 X 1" SST	8
4	102376	WASHER, FLAT 5/16 SST	8
5	106013	WASHER, LOCK 5/16 SPLIT SST	8
6	108345	GASKET	2
7	331798	COIL, WELDMENT, HOT WATER C4 EEUCCW	1
8	331799	PLATE, HOT WATER COIL, MOUNTING	1
9	100184	NIPPLE, 3/4" NPT X CLOSE, BRASS	6
10	102396	BUSHING, RED. 1" NPT X 3/4" NPT BRASS	1
11	102450	ELBOW STREET, 1" NPT X 90° BRASS	1
12	102551	UNION, 1" NPT, BRASS	1
13	102772	NIPPLE, 1" NPT X 6-1/2" LG. BRASS	1
14	106911	UNION, ELBOW, 3/4" NPT FEMALE BRASS	3
15	111854	PUMP, HOT WATER RECIRCULATING, BRONZE	1
16	111860	FLANGE KIT, 1" NPT BRONZE HWC PUMP (Order Separately - does not come with item 15)	1
17	100123	PETCOCK, 1/4" NPT FEMALE, BRASS	1
18	100848	VALVE, FLOW CONTROL, 3/4" NPT 6 GPM	1
19	100853	CHECK VALVE, 3/4" NPT BRONZE	1
20	102657	NIPPLE, 3/4" NPT X 5" LG. BRASS	1
21	107418	TEE, RED. 3/4" X 3/4" X 1/4" BRASS	1
22	110656	HOSE BARB, 1/4" MPT X 1/4" OD X 90° BRASS	1



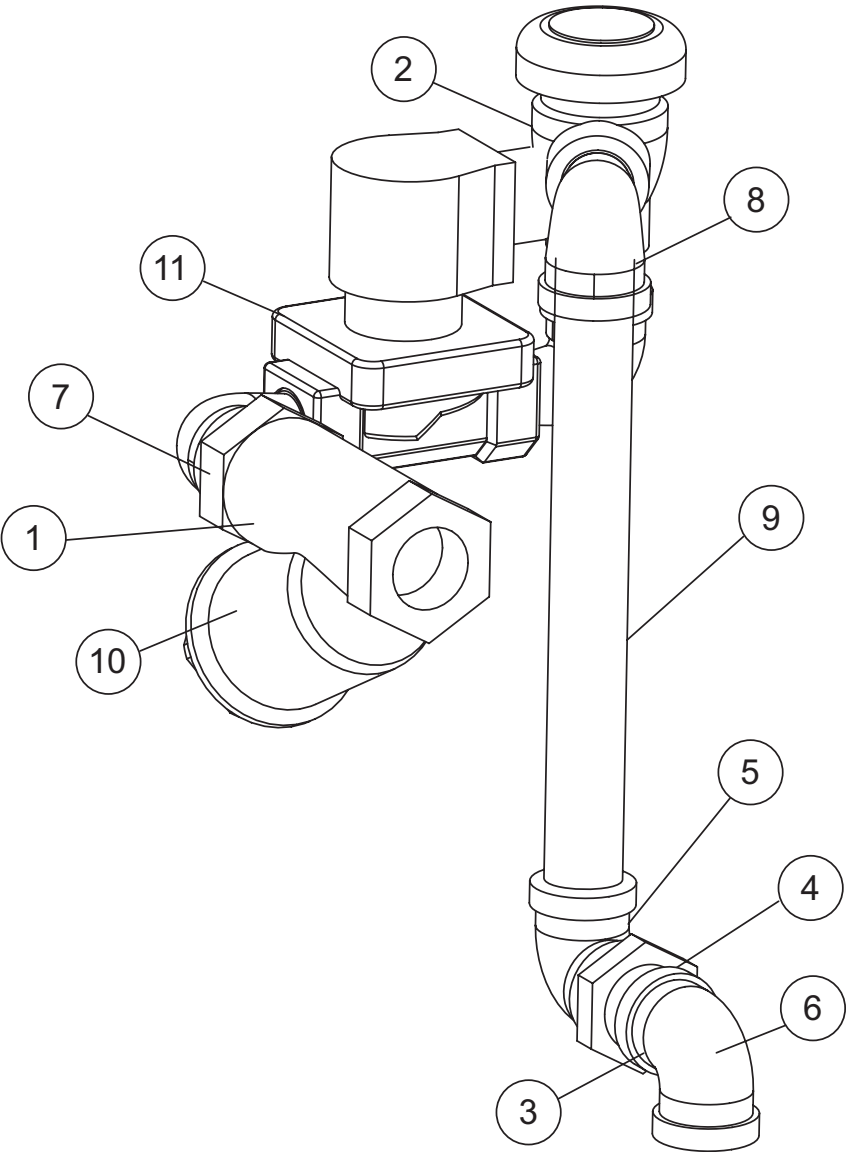
Item No.	Part No.	Description	Qty.
1	100097	SCREW, TRUSS HD. 10-32 X 1/2" SST	20
2	100548	LLOCKNUT, 3/4" NPT, SST	2
3	101187-1	HANDLE, THREADED DAMPER ASSY	1
4	101187-2	HANDLE, DAMPER REGULATOR	1
5	101187-3	WING-NUT, DAMPER REGULATOR ASSY	1
6	101187-4	WASHER, DAMPER REGULATOR ASSY	1
7	101187-5	BRACKET ASS, LOCK PIN DAMPER REGULATOR	1
8	101187-6	BEVELLED WASHER, DAMPER ASSY	1
9	101501	NIPPLE, RTOE, 3/4" NPT X 4-1/2" LG. SST	2
10	102415	COUPLING, 3/4" NPT X BRASS	2
11	102519	TEE, RED 1/2" X 1/2" X 3/4" BRASS	2
12	104883	SCREW, ROUND HD., 6-32 X 3/8" SST	4
13	104971	HEX GRIP NUT, 6-32 SST	4
14	109925	FITTING COMP., 5/8" OD X 1/2" MPT BRASS	2
15	111561	HANDLE, ACCESS DOOR, FLUSH MOUNT	1
16	305141	BLADE, DAMPER VENT STACK	1
17	332811	COIL, BATTERY (MODIFIED)	1
18	333117	BODY WELDMENT, HRU, R-L	1
19	333126	PLENUM WELDMENT, COIL SUPPORT	1
20	333127	PLATE, PLENUM ACCESS	1
21	333128	BRACKET, COIL HOLD-DOWN	4
22	333135	DUCT WELDMENT, OUTLET	1
23	333139	COIL COVER, WELDMENT HRU	1
24	333142	PANEL, WELDMENT TOP VENT	1
25	333143	PANEL, FRONT FAN END	1
26	333144	PANEL, FRONT COIL END	1
27	333145	ANGLE, FRONT PANEL STOP	1
28	333147	PLATE, WELDMENT, BLOWER MOUNTING	1
29	114633	FAN, BLOWER	2
30	333148	ANGLE, DIVIDER MOUNTING	1
31	333150	PLATE, DIVIDER FRONT COIL CHAMBER	1
32	333149	PLATE, DIVIDER REAR COIL CHAMBER	1
33	333150	PANEL, REAR FAN END	1
34	333153	PANEL, REAR CENTER	1
35	113269	CLAMP, HOSE	6
36	109991	HOSE BARB ST 3/4" MPT X 3/4"	4
37	114121	HOSE, 3/4" ID	A/R
38	333152	PANEL, REAR COIL END	1
39	114646	RECEPTACLE, 1/4 TURN	3
40	114649	RING, RETAINING	3
41	114647	SPRING, EJECTOR 1/4 TURN	3
42	114648	WASHER, WEAR	3
43	114650	STUD, KNURLED 1/4 TURN	3
44	106026	WASHER, FLAT 1/4" SST	8
45	100735	BOLT, HEX HD., 1/4" X 5/8" SST	8
46	102504	PLUG, SQUARE HD., 1/2" BRASS	1
47	0512299	ADAPTER	1
48	114435	THERMISTOR, 10k 36" LEAD	1



Item No.	Part No.	Description	Qty.
1	100007	SCREW, TRUSS HD., 10-32 X 3/8" SST	4
2	111036	SOCKET, RELAY 2-POLE	5
3	111067	RELAY, 2-POLE 10A 120VAC	5
4	114666	RESISTOR, 10kΩ, 2W	2
5	114522	BRIDGE, 10-POLE, FPS 10-5 (<i>cut to size</i>)	1
6	114517	TERMINAL, DOUBLE, STTB 2.5	4
7	114518	END COVER, DOUBLE TERMINAL, D-STTB 2.5	1
8	114512	TERMINAL, SINGLE, ST 2.5, (GRAY)	6
9	114515	TERMINAL, SINGLE, GROUND, ST 2.5 (GREEN)	1
10	114516	END COVER, SINGLE TERMINAL, D-ST 2.5	1
11	114520	TERMINAL, SINGLE, MZB 1.5-NS35	2
12	114521	END COVER, SINGLE TERMINAL, D-MZB 1.5-NS35	1
13	114519	END BLOCK, E/NS 35 N	2
14	114662	TIMER, INTERVAL 30 SECONDS	1
15	114655	TEMPERATURE CONTROLLER, THERMISTOR	1
16	333167	INNER PANEL, HRU CONTROL CABINET	1
17	333169	CONTROL CABINET WELDMENT, HRU	1
18	333170	COVER, CONTROL CABINET	1
19	114661	TIMER, INTERVAL 15 SECONDS	1

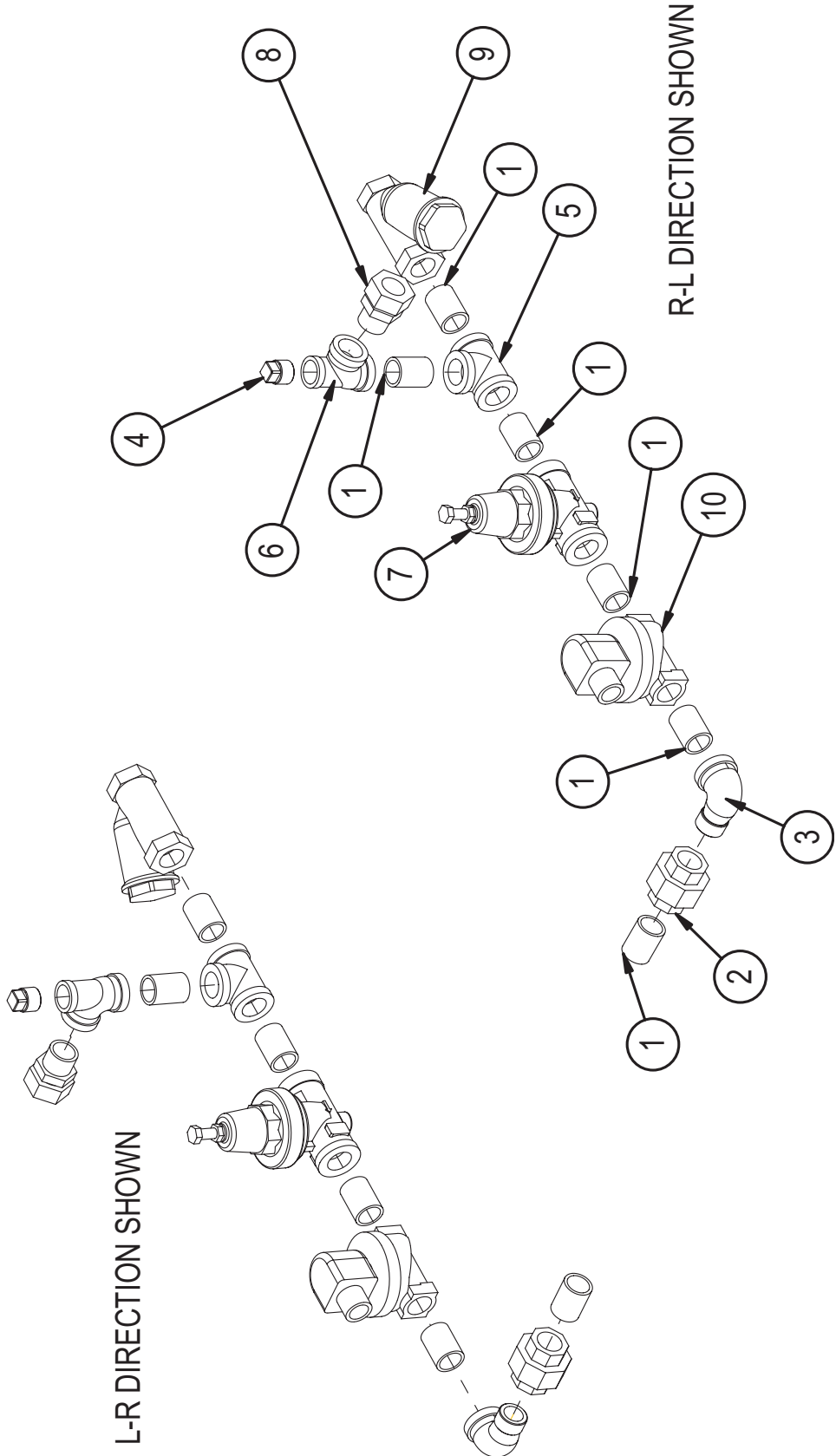
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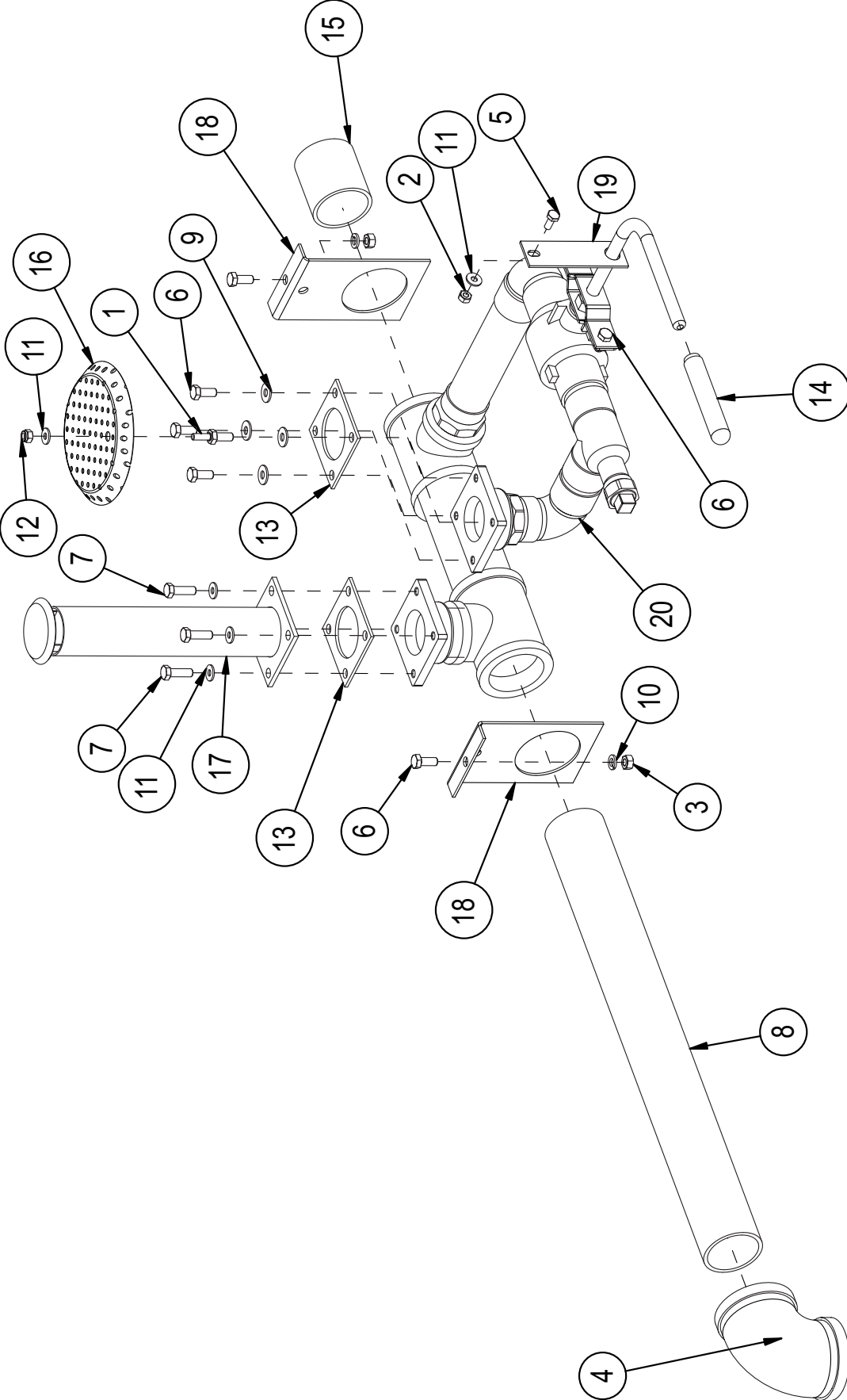


Item No.	Part No.	Description	Qty.
1	100209	NIPPLE, 1/2"NPT X CLOSE, BRASS	1
2	100500 108349	VACUUM BREAKER, 1/2" NPT BRONZE REPAIR KIT	1
3	100704	NIPPLE, RTOE, 1/2"NPT X 1 3/4"LG., SST	1
4	100709	LOCKNUT, 1/2" NPT, BRASS	1
5	102435	ELBOW, 1/2"NPT x 90 DEG, BRASS	1
6	102436	ELBOW, 1/2"NPT X 90, SST	1
7	102438	ELBOW, STREET, 1/2"NPT X 90, BRASS	3
8	102485	NIPPLE, 1/2"NPT X 1 1/2"LG., BRASS	1
9	102582	NIPPLE, 1/2"NPT X 7 1/2"LG., BRASS	1
10	110768	STRAINER, LINE, 3/4"NPT BRONZE FEMALE	1
11	113352	VALVE 1/2" NPT SOLENOID 115V	1
---	109902	REPAIR KIT	A/R
---	108516	COIL, SOLENOID VALVE 115V	A/R

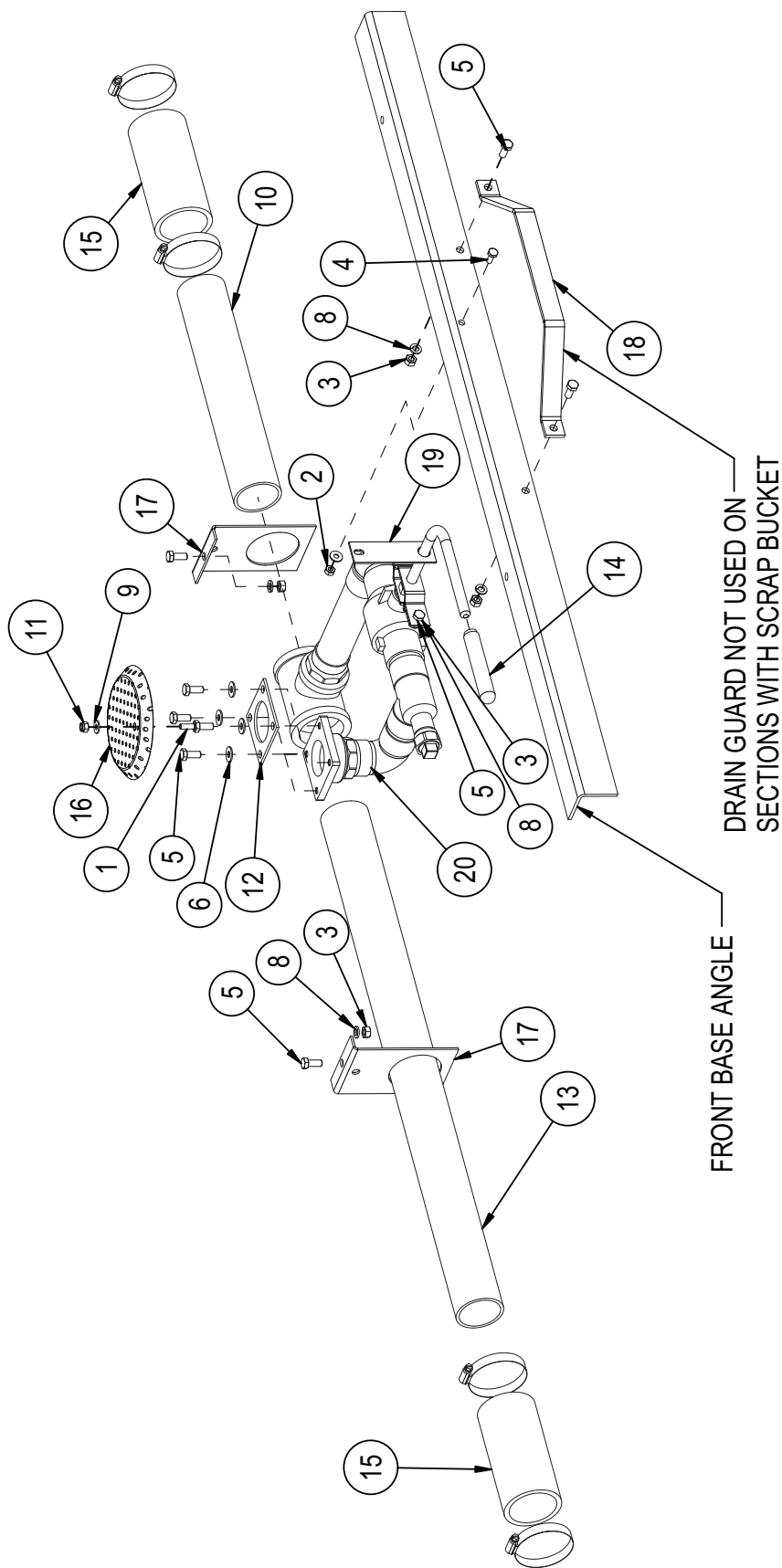
Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD, 1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT, 1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT, 5/16-18 SST	2
4	100161	ELBOW, 2"NPT X 90, GALVANIZED	1
5	100735	HEX HEAD, 1/4-20 X 5/8 SST	1
6	100739	HEX HEAD, 5/16-18 X 3/4 SST	6
7	100740	HEX HEAD, 5/16-18 X 1 SST	4
8	101939	NIPPLE, TOE, 2"NPT X 11" LG., GALV	1
9	101944	NIPPLE, 2"NPT X 12 1/2" LG., GALV	1
10	102376	WASHER, FLAT, 5/16x3/4x.06 SST	4
11	106013	WASHER, LOCK, 5/16 SPLIT, SST	2
12	106026	WASHER, FLAT, 1/4x5/8x.06 SST	6
13	107967	HEX GRIP NUT, 1/4-20 SST W/NYLON	1
14	108345	GASKET, HEATER/STANDPIPE	2
15	114185	GRIP, DRAIN HANDLE	1
16	304816	STRAINER, DRAIN	1
17	305840	OVERFLOW WELDMENT, 9.50 UC	1
18	310259	BRACKET, DRAIN LINE SUPPORT, UC'S	2
19	329677	SUPPORT BRACKET, DRAIN HANDLE	1
20	601819	DRAIN SUB-ASSY, PW, 2" TRUNK EUCCW	1
---	601838	DRAIN SUB-ASSY, PW, 2" TRUNK EUCC	1



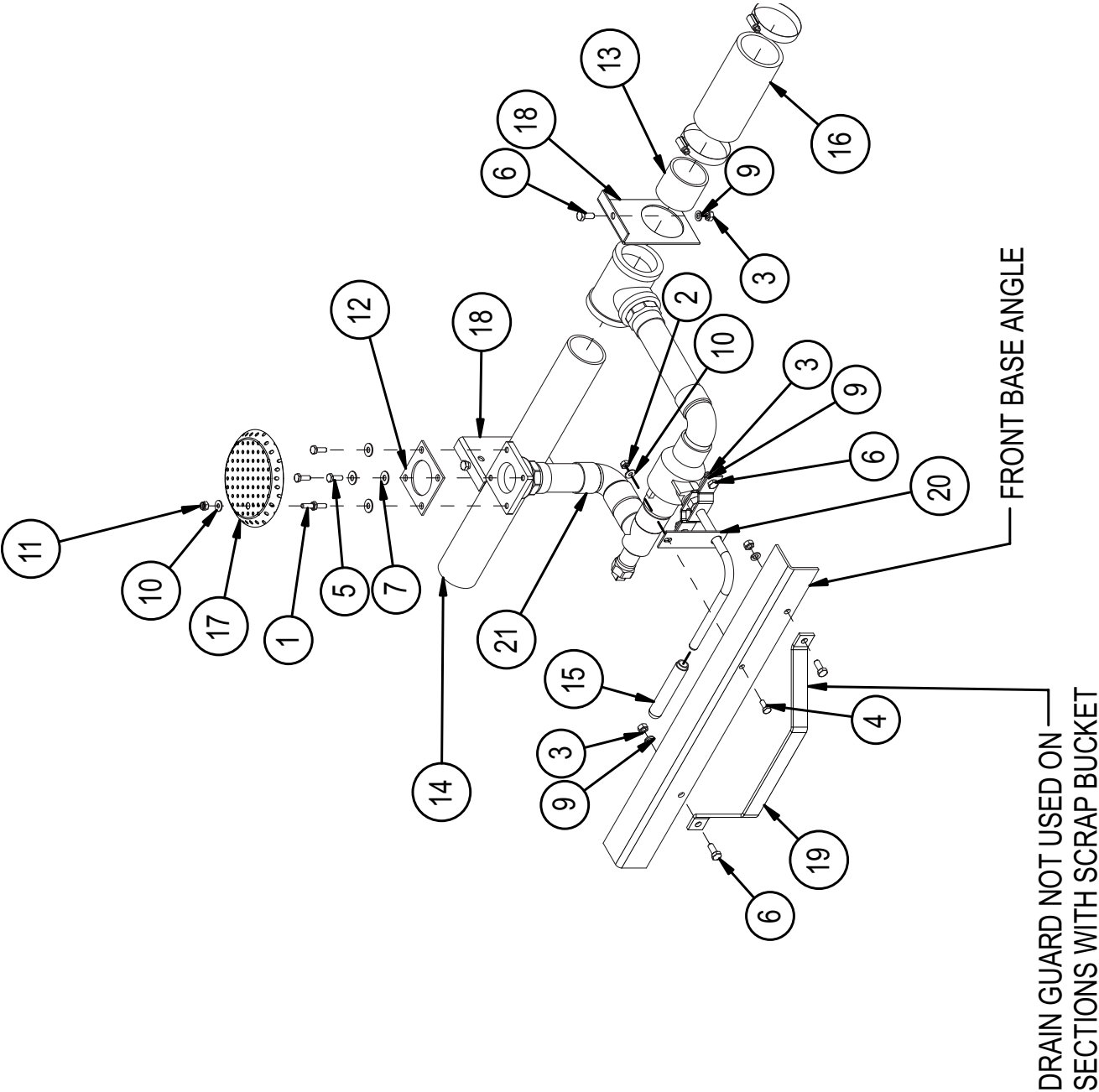
Item No.	Part No.	Description	Qty.
1	100184	NIPPLE,3/4"NPT X CLOSE,BRASS	6
2	100571	UNION,3/4"NPT,BRASS	1
3	102444	ELBOW,STREET,3/4"NPT X 90, BRASS	1
4	102504	PLUG,1/2"NPT SQ.HEAD,BRASS	1
5	102521	TEE, 3/4"NPT, BRASS	1
6	102525	TEE,RED,3/4"x1/2"x3/4"NPT, BRASS	1
7	107550	VALVE,PRESSURE REGULATING,3/4"NPT BRONZE	1
8	109879	FITTING, COMP 7/8 OD X 3/4 MPT BRASS	1
9	110768	STRAINER,LINE,3/4"NPT BRONZE FEMALE	1
10	111437	VALVE, SOLENOID 3/4" NPT, HW	1



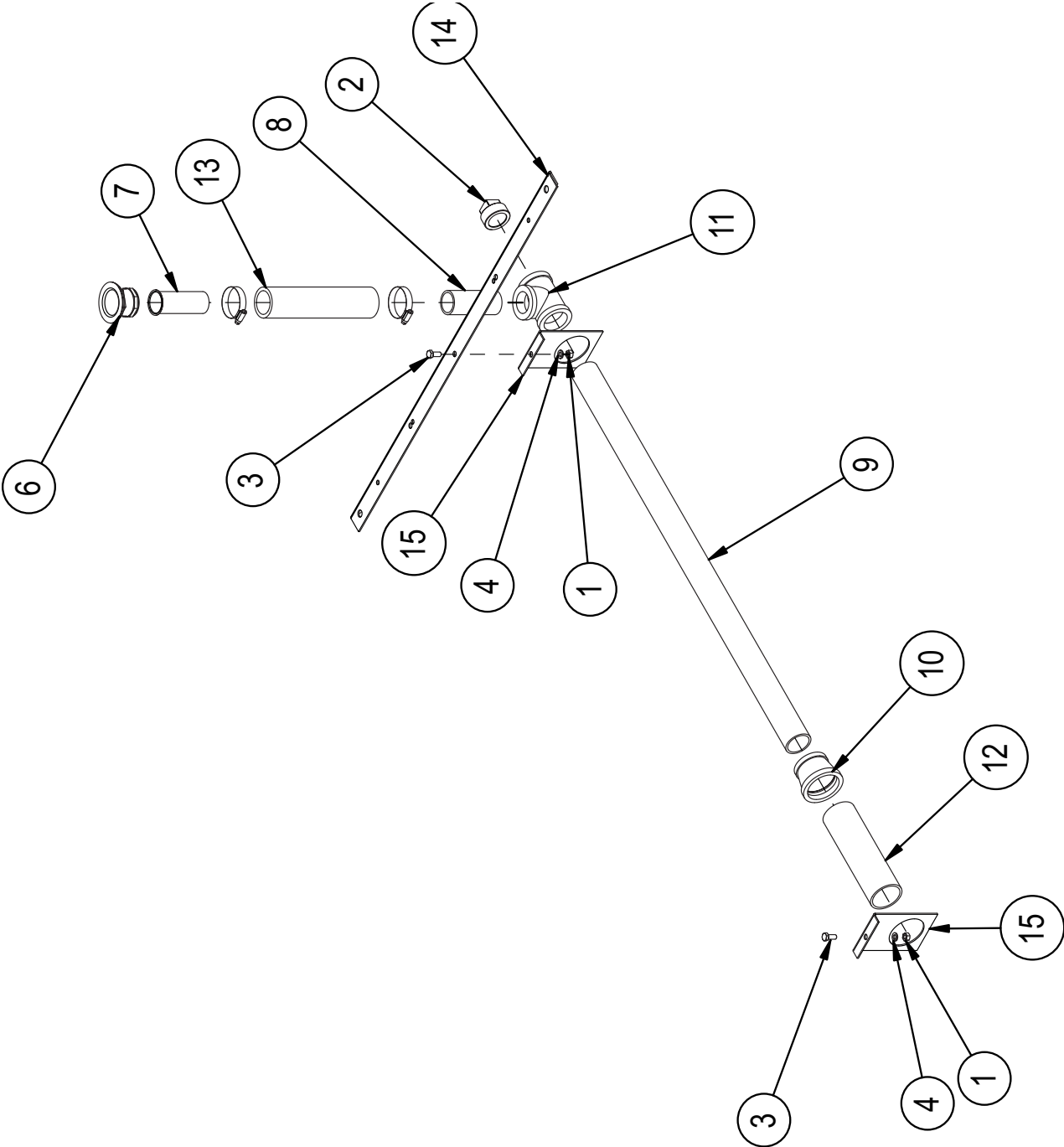
Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	2
4	100161	ELBOW,2"NPT X 90,GALVANIZED	1
5	100735	HEX HEAD,1/4-20 X 5/8 SST	1
6	100739	HEX HEAD,5/16-18 X 3/4 SST	6
7	100740	HEX HEAD,5/16-18 X 1 SST	4
8	101954	NIPPLE,2"NPT X 21 1/2" LG.,GALV	1
9	102376	WASHER,FLAT,5/16x3/4x.06 SST	4
10	106013	WASHER,LOCK,5/16 SPLIT,SST	2
11	106026	WASHER,FLAT,1/4x5/8x.06 SST	6
12	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
13	108345	GASKET,HEATER/STANDPIPE	2
14	114185	GRIP,DRAIN HANDLE	1
15	114198	NIPPLE,TOE,2"NPT X 2 1/2" LG.,GALV	1
16	304816	STRAINER,DRAIN	1
17	305840	OVERFLOW WELDMENT, 9.50 UC	1
18	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
19	329677	SUPPORT BRACKET,DRAIN HANDLE	1
20	601819	DRAIN SUB-ASSY,PW,2" TRUNK EUCCW	1
---	601838	DRAIN SUB-ASSY,PW,2" TRUNK EUCC	1



Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	4
4	100735	HEX HEAD,1/4-20 X 5/8 SST	1
5	100739	HEX HEAD,5/16-18 X 3/4 SST	8
6	102376	WASHER,FLAT,5/16x3/4x.06 SST	4
7	104165	CLAMP,HOSE,M40,52/76,SST GEAR TYPE	4
8	106013	WASHER,LOCK,5/16 SPLIT,SST	4
9	106026	WASHER,FLAT,1/4x5/8x.06 SST	2
10	106631	NIPPLE,TOE,2"NPT X 12 3/4" LG.,GALV	1
11	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
12	108345	GASKET,HEATER/STANDPIPE	1
13	114101	NIPPLE,TOE,2"NPT X 30 1/2" LG.,GALV	1
14	114185	GRIP,DRAIN HANDLE	1
15	202073	HOSE,2.375 ID X 6.000 LG.EPDM	2
16	304816	STRAINER,DRAIN	1
17	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
18	329130	GUARD, DRAIN VALVE	1
19	329677	SUPPORT BRACKET,DRAIN HANDLE	1
20	601820	DRAIN SUB-ASSY,W/R,2" TRUNK EUCCW	1
---	601839	DRAIN SUB-ASSY,W/R,2" TRUNK EUCC	1



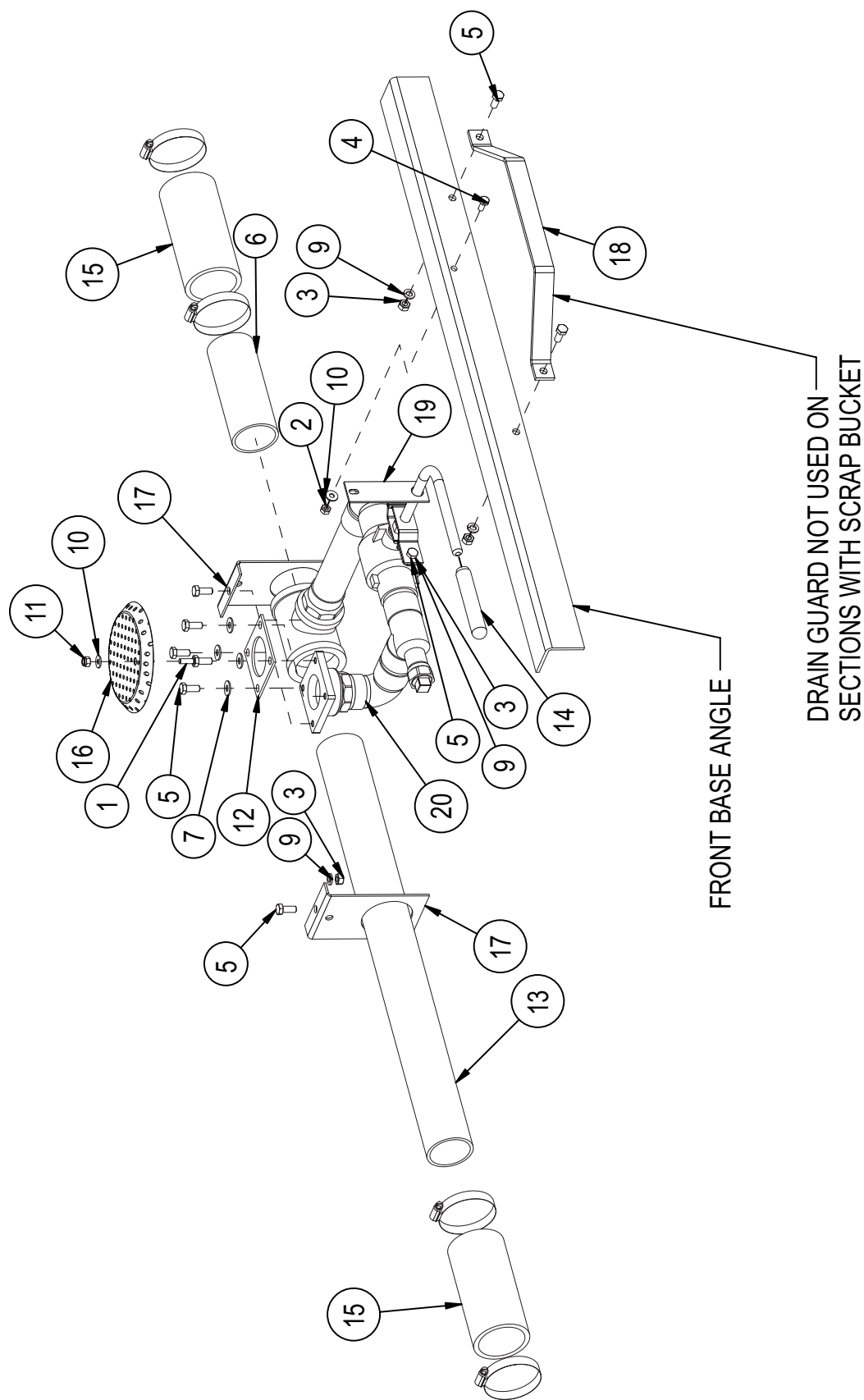
Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	4
4	100735	HEX HEAD,1/4-20 X 5/8 SST	1
5	100736	HEX HEAD,1/4-20 X 3/4 SST	4
6	100739	HEX HEAD,5/16-18 X 3/4 SST	4
7	102376	WASHER,FLAT,5/16x3/4x.06 SST	4
8	104165	CLAMP,HOSE,M40,52/76,SST GEAR TYPE	2
9	106013	WASHER,LOCK,5/16 SPLIT,SST	4
10	106026	WASHER,FLAT,1/4x5/8x.06 SST	2
11	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
12	108345	GASKET,HEATER/STANDPIPE	1
13	111903	NIPPLE,TOE,2"NPT X 2" LG.,GALV	1
14	114106	NIPPLE,TOE,2"NPT X 18" LG.,GALV	1
15	114185	GRIP,DRAIN HANDLE	1
16	202073	HOSE,2.375 ID X 6.000 LG.EPDM	1
17	304816	STRAINER,DRAIN	1
18	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
19	329130	GUARD, DRAIN VALVE	1
20	329677	SUPPORT BRACKET,DRAIN HANDLE	1
21	601821	DRAIN SUB-ASSY,ECO-RINSE, 2" TRUNK EUCCW	1
---	601840	DRAIN SUB-ASSY,ECO-RINSE, 2" TRUNK EUCC	1



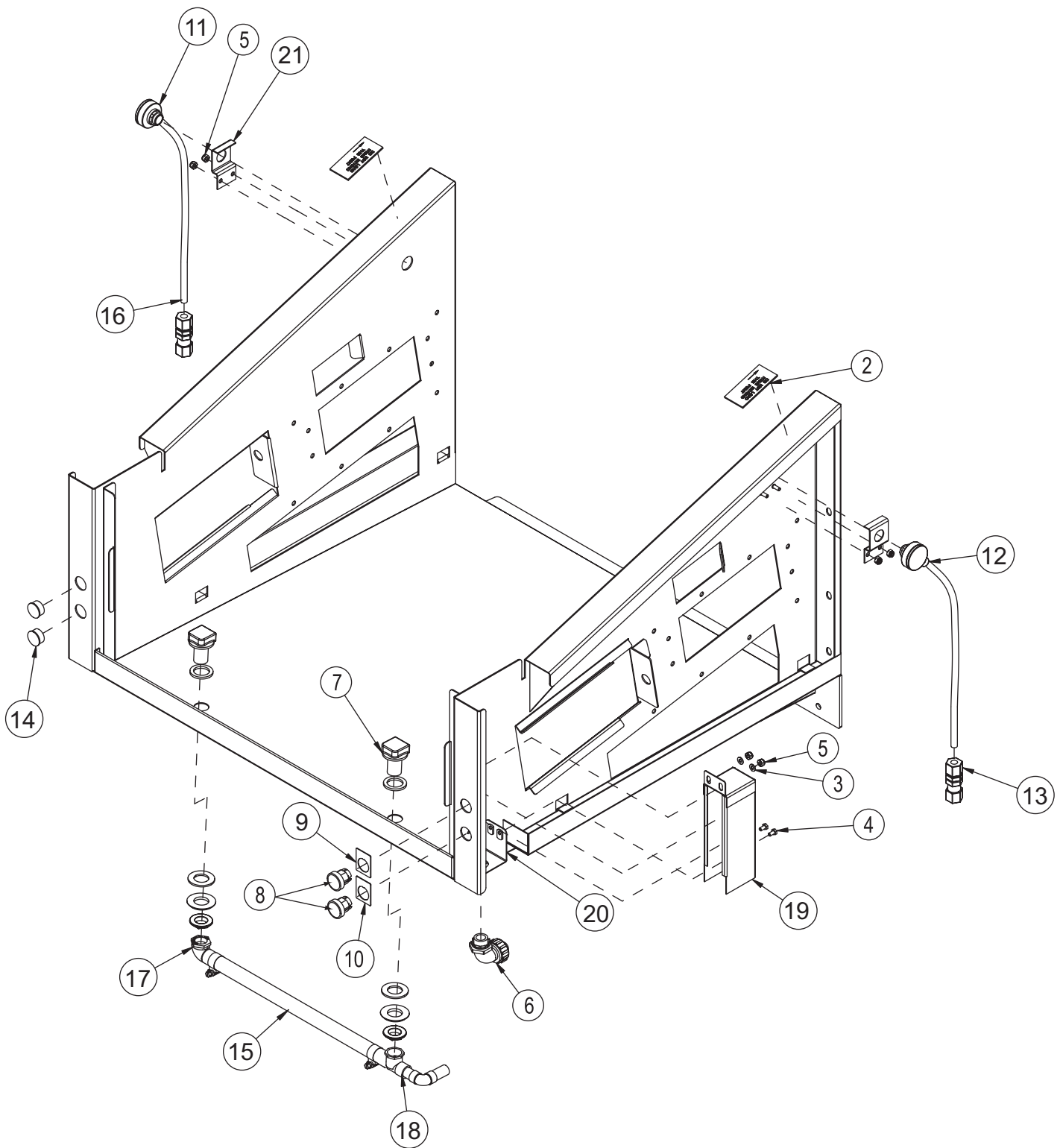
Item No.	Part No.	Description	Qty.
1	100154	HEX PLAIN NUT,5/16-18 SST	2
2	100587	PLUG,1 1/2"NPT SQ.HEAD,B.I.	1
3	100739	CAP SCREW,HEX HEAD,5/16-18 X 3/4 SST	2
4	106013	WASHER,LOCK,5/16 SPLIT,SST	2
5	107340	CLAMP,HOSE,M28,33/57,SST GEAR TYPE	2
6	107342	DRAIN BASKET ASSY,DUO B02-050	1
7	107473	DRAIN TAILPIECE RINSE	1
8	109184	NIPPLE,TOE,1 1/4"NPT X 4" LG.,GALV	1
9	109189	NIPPLE,TOE,1 1/2"NPT X 36" LG.,GALV	1
10	111245	COUPLING RED 2"NPT X 1 1/2"NPT,GALV	1
11	114216	TEE,1 1/2"NPT X 1 1/2"NPT X 1 1/4"NPT,GALV	1
12	114217	NIPPLE,TOE,2"NPT X 8" LG.,GALV	1
13	114219	HOSE,1.625 ID X 9.000 LG.EPDM	1
14	206668	ANGLE,ELECTRIC BOOSTER SUPPORT EUCCW	1
---	206689	ANGLE,ELECTRIC BOOSTER SUPPORT EUCC	1
15	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2

Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	2
4	100161	ELBOW,2"NPT X 90,GALVANIZED	1
5	100735	HEX HEAD,1/4-20 X 5/8 SST	1
6	100739	HEX HEAD,5/16-18 X 3/4 SST	6
7	100740	HEX HEAD,5/16-18 X 1 SST	4
8	101956	NIPPLE,TOE,2"NPT X 21 3/4" LG.,GALV	1
9	102376	WASHER,FLAT,5/16 x 3/4 x .06 SST	4
10	106013	WASHER,LOCK,5/16 SPLIT,SST	2
11	106026	WASHER,FLAT,1/4x5/8x.06 SST	6
12	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
13	108345	GASKET,HEATER/STANDPIPE	2
14	114185	GRIP,DRAIN HANDLE	1
15	114253	NIPPLE,2"NPT X 20 1/2" LG.,GALV	1
16	304816	STRAINER,DRAIN	1
17	305840	OVERFLOW WELDMENT, 9.50 UC	1
18	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
19	329677	SUPPORT BRACKET,DRAIN HANDLE	1
20	601819	DRAIN SUB-ASSY,PW,2" TRUNK EUCCW	1
---	601838	DRAIN SUB-ASSY,PW,2" TRUNK EUCC	1

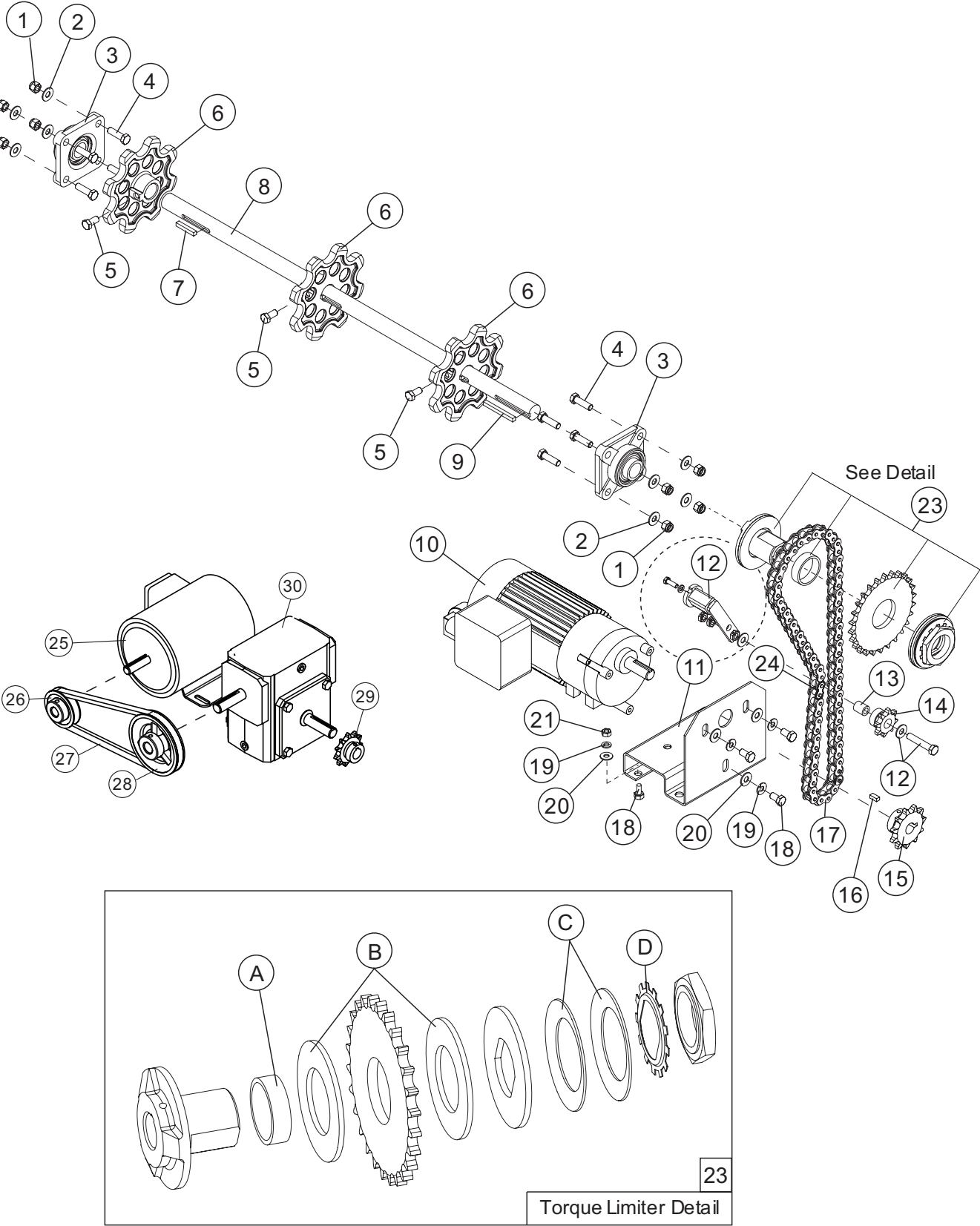
Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	2
4	100161	ELBOW,2"NPT X 90,GALVANIZED	1
5	100735	HEX HEAD,1/4-20 X 5/8 SST	1
6	100739	HEX HEAD,5/16-18 X 3/4 SST	6
7	100740	HEX HEAD,5/16-18 X 1 SST	4
8	102376	WASHER,FLAT,5/16x3/4x.06 SST	4
9	106013	WASHER,LOCK,5/16 SPLIT,SST	2
10	106026	WASHER,FLAT,1/4x5/8x.06 SST	6
11	106631	NIPPLE,TOE,2"NPT X 12 3/4" LG.,GALV	1
12	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
13	108345	GASKET,HEATER/STANDPIPE	2
14	114185	GRIP,DRAIN HANDLE	1
15	114252	NIPPLE,2"NPT X 29 1/2" LG.,GALV	1
16	304816	STRAINER,DRAIN	1
17	305840	OVERFLOW WELDMENT, 9.50 UC	1
18	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
19	329677	SUPPORT BRACKET,DRAIN HANDLE	1
20	601819	DRAIN SUB-ASSY,PW,2" TRUNK EUCCW	1
---	601838	DRAIN SUB-ASSY,PW,2" TRUNK EUCC	1



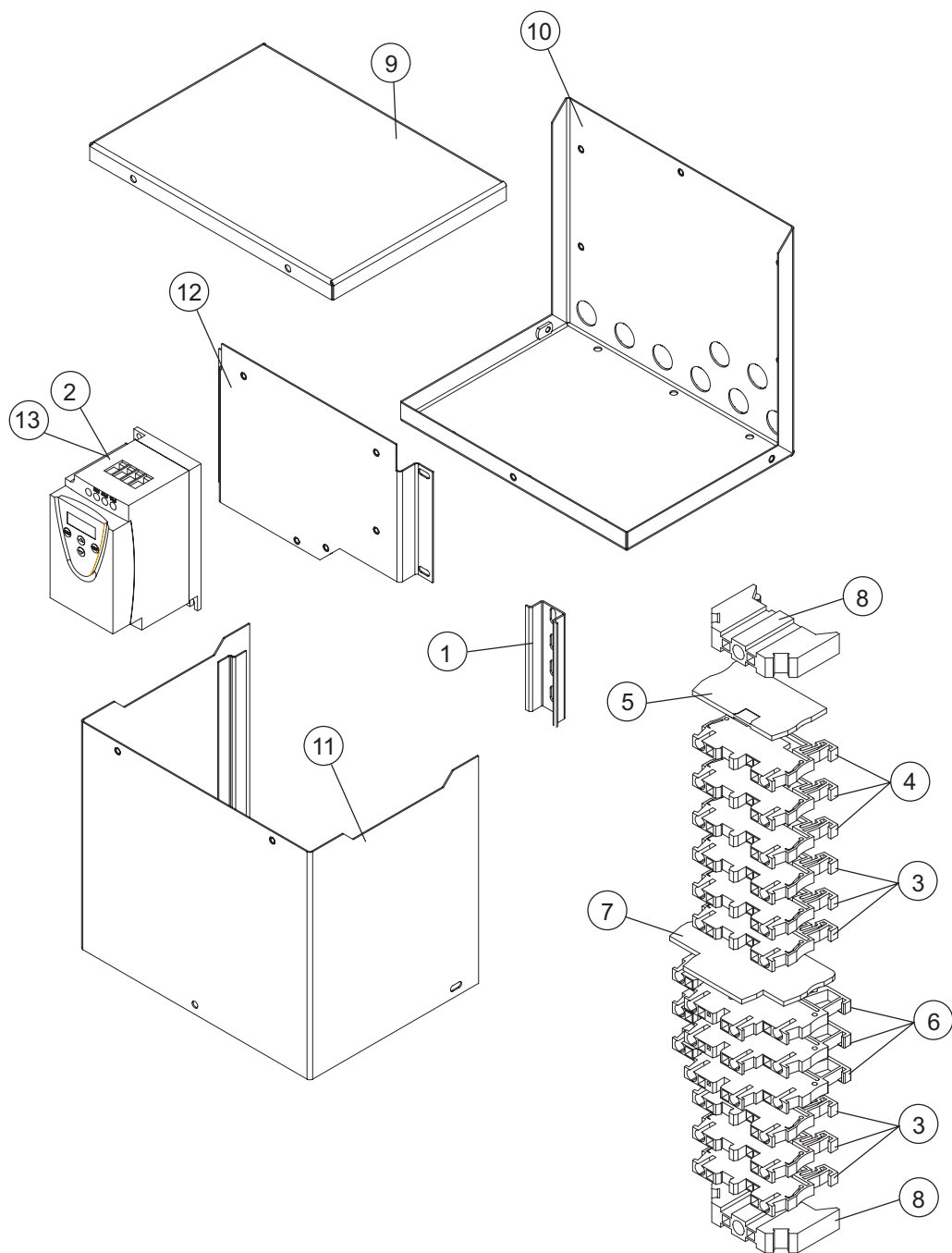
Item No.	Part No.	Description	Qty.
1	100110	WELD-STUD,1/4-20 X 3/4 LG.SST	1
2	100141	HEX GRIP NUT,1/4-20 SST,CTR LOCK	1
3	100154	HEX PLAIN NUT,5/16-18 SST	4
4	100735	HEX HEAD,1/4-20 X 5/8 SST	1
5	100739	HEX HEAD,5/16-18 X 3/4 SST	8
6	101920	NIPPLE,TOE,2"NPT X 5 3/4" LG.,GALV	1
7	102376	WASHER,FLAT,5/16 x 3/4 x .06 SST	4
8	104165	CLAMP,HOSE,M40,52/76,SST GEAR TYPE	4
9	106013	WASHER,LOCK,5/16 SPLIT,SST	4
10	106026	WASHER,FLAT,1/4 x 5/8 x .06 SST	2
11	107967	HEX GRIP NUT,1/4-20 SST W/NYLON	1
12	108345	GASKET,HEATER/STANDPIPE	1
13	114176	NIPPLE,TOE,2"NPT X 25 1/2" LG.,GALV	1
14	114185	GRIP,DRAIN HANDLE	1
15	202073	HOSE,2.375 ID X 6.000 LG.EPDM	2
16	304816	STRAINER,DRAIN	1
17	310259	BRACKET, DRAIN LINE SUPPORT,UC'S	2
18	329130	GUARD, DRAIN VALVE	1
19	329677	SUPPORT BRACKET,DRAIN HANDLE	1
20	601820	DRAIN SUB-ASSY,W/R,2" TRUNK EUCCW	1
---	601839	DRAIN SUB-ASSY,W/R,2" TRUNK EUCC	1



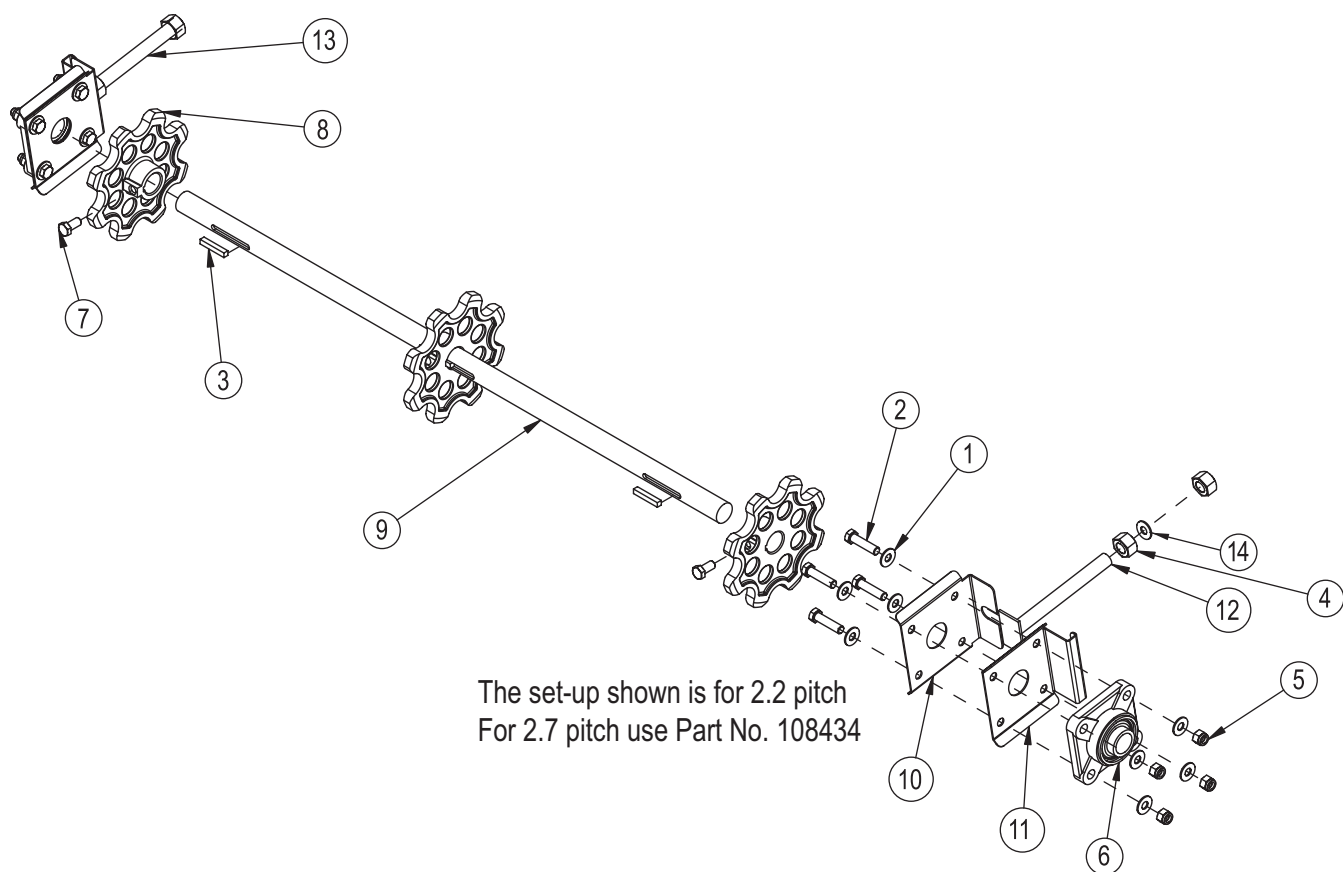
Item No.	Part No.	Description	Qty.
1	105994	CLAMP, HOSE GEAR-TYPE	2
2	107003	LOAD PLACARD, ELECTRIC EYE	2
3	107033	WASHER, FLAT SST	4
4	107136	SCREW, HEX HD. 10-32 X 3/8" SST	2
5	107966	HEX GRIP NUT, 10-32 SST W/NYLON	8
6	110837	ELBOW, 1/2" CONDUIT, SEALTITE	1
7	111325	NOZZLE, FLUSHING POLISHED CHROME	2
8	0512213	SWITCH, PIEZO 22MM STAINLESS	2
9	112822	NAMPLATE, START	1
10	112823	NAMEPLATE, STOP	1
11	112241	ELECTRIC EYE EMITTER, UC MACHINE	1
12	112242	ELECTRIC EYE RECEIVER, UC MACHINE	1
13	112245	UNION BULKHEAD, 3/8" OD PLASTIC	2
14	112519	PLUG, SNAP	2
15	205193	HOSE, 5/8" ID X 15-1/4" LG. CLEAR	2
16	205907	TUBE, 3/8" OD X 19" LG. POLYPROPYLENE	2
17	309709	ELBOW, WELD FLUSHING	1
18	309711	TEE & ELBOW WELD, FLUSHING	1
19	330022	COVER, WELD START/STOP STATION	1
20	330024	BRACKET, WELDMENT START/STOP	1
21	330120	BRACKET, ELECTRIC EYE MOUNTING	2



Item No.	Part No.	Description	Qty.
1	109010	HEX GRIP NUT, 3/8-16 SST W/NYLON	8
2	104618	WASHER FLAT, 3/8" SST	8
3	109958	BEARING, 4-BOLT 1" UC DRIVE	2
4	100746	BOLT, HEX HD., 3/8-16 X 1-1/4" SST	8
5	111480	BOLT, HEX HD., 3/8-16 X 3/4" SST W/LOCTITE	3
6	113970	SPROCKET, UC CONVEYOR DRIVE	3
7	107305	KEY, 1/4" X 1/4" X 1-1/2" LG. SST	3
8	330011	SHAFT, DRIVE EUCCW	1
---	206682	SHAFT, DRIVE EUCC	1
9	106679	KEY, 1/4" X 1/4" X 2-1/2" LG. SST	1
10	114484	MOTOR, GEAR 230V/3	1
---	114597	MOTOR, GEAR 480V/3	1
11	332979	BRACKET, MOTOR MOUNTING	1
12	110076	TENSION ARM ASSY	1
13	104265	BUSHING, 3/4" X 3/4" X 3/4" LG. BRONZE	1
14	106521	SPROCKET, 50B8, 5/8" BORE W/KEY	1
15	114639	SPROCKET, 50B11T, 3/16" KEY	1
16	106619	KEY, 3/16" X 3/16" X 1" LG. SST	1
17	206959	CHAIN, #50	1
18	100740	BOLT, HEX HD., 5/16-18 X 1" SST	7
19	106013	WASHER, LOCK 5/16" SPLIT SST	7
20	102376	WASHER, FLAT 5/16" SST	7
21	100154	HEX PLAIN NUT, 5/16-18 SST	7
22	101149	LINK, CONNECTING #50	1
23	100485	TORQUE LIMITER ASSY. (Includes A-D below)	1
24	101153	LINK, OFFSET #50	1
25	107183	MOTOR, 1/2 HP, DRIVE MV 3 PH (For S/N J09072662)	1
26	113688	SHEAVE (For S/N J09072662)	1
27	100792	BELT, BRIVE (For S/N J09072662)	1
28	100444	SHEAVE (For S/N J09072662)	1
29	105285	GEAR (For S/N J09072662)	1
30	110300	GEARBOX (For S/N J09072662)	1
A	104271	BUSHING	1
B	102315	DISC, FRICTION	2
C	108095	WASHER, SPRING	2
D	107700	WASHER, LOCK	1

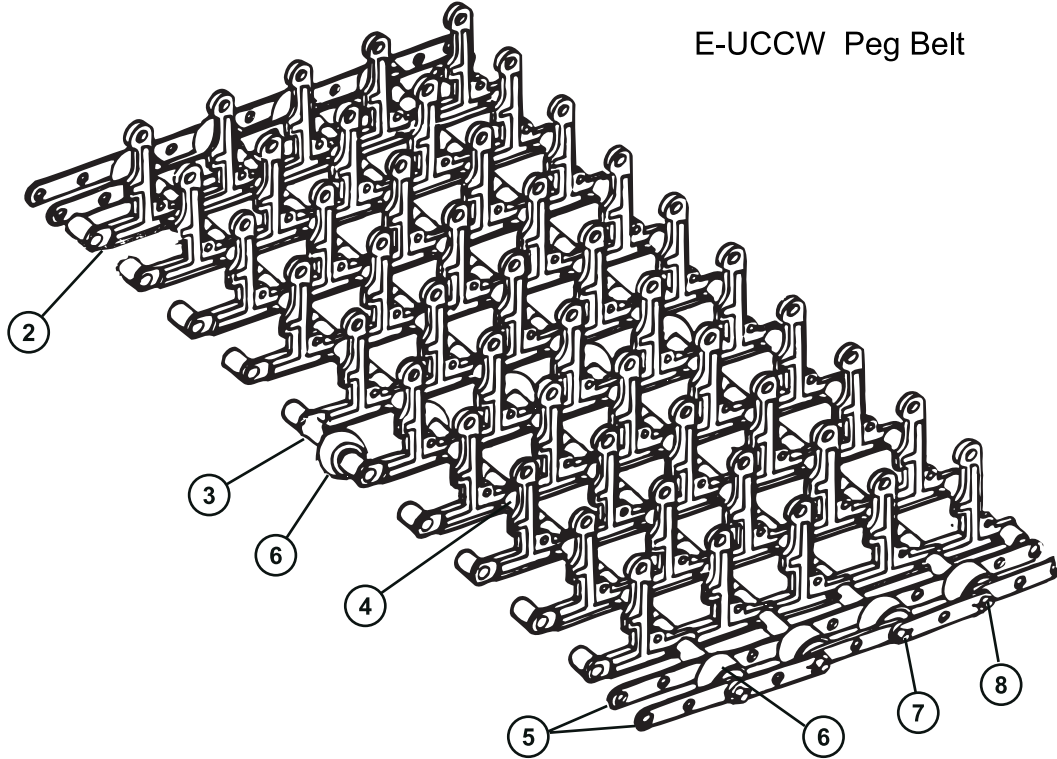


Item No.	Part No.	Description	Qty.
1	113769-4	DIN RAIL, 35MM X 15MM	1
2	114499	INVERTER, DRIVE, 1/2HP 200/230VAC	1
3	114512	TERMINAL, SINGLE, ST 2.5, (GRAY)	6
4	114514	TERMINAL, SINGLE, ST 2.5, (WHITE)	3
5	114516	END COVER, SINGLE TERMINAL, D-ST 2.5	1
6	114517	TERMINAL, DOUBLE, STTB 2.5	3
7	114518	END COVER, DOUBLE TERMINAL, D-STTB 2.5	1
8	114519	END BLOCK, E/NS 35 N	2
9	332653	COVER, DRIVE INVERTER BOX	1
10	332655	BODY, WELDMENT, DRIVE INVERTER BOX	1
11	332658	WRAP WELDMENT, DRIVE INVERTER BOX	1
12	332659	INNER PANEL, WELDMENT, DRIVE INVERTER BOX	1
13	113333	INVERTER DRIVE, 1/2 HP, 480V (S/N J09062444)	1

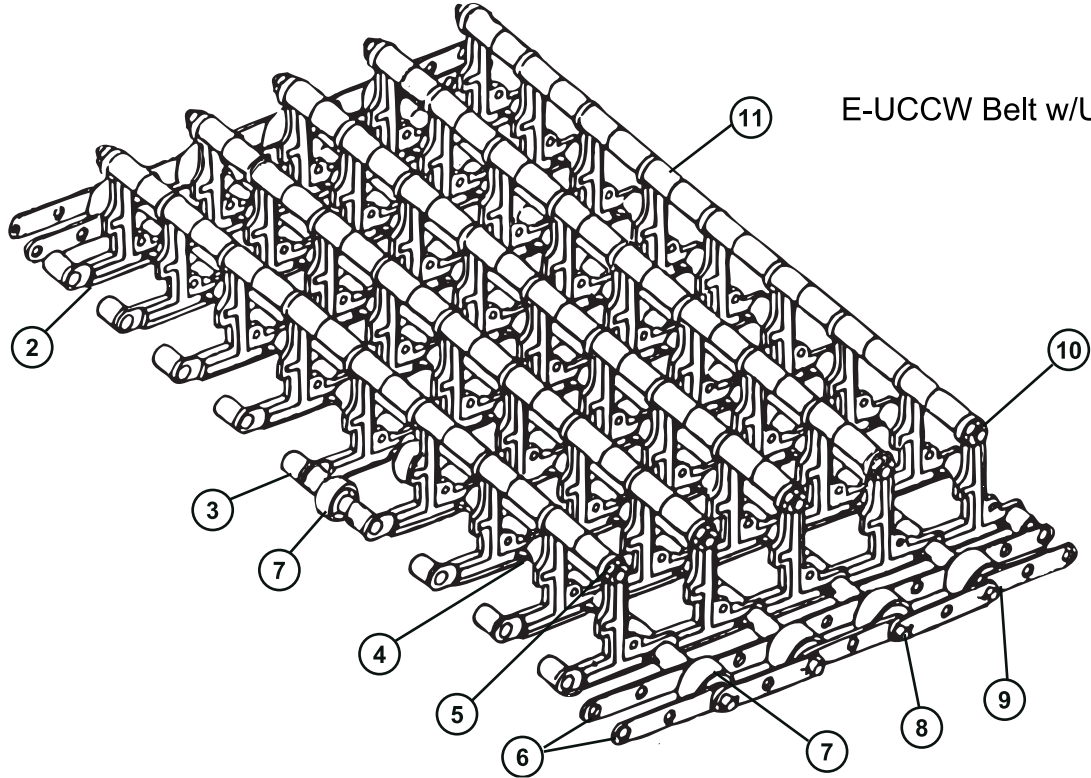


Item No.	Part No.	Description	Qty.
1	104618	WASHER,FLAT,3/8x7/8x.06 SST	16
2	106022	CAP SCREW,HEX HEAD,3/8-16 X 1 1/2 SST	8
3	107305	KEY 1/4 X 1/4 X 1 1/2 SST	3
4	107691	HEX PLAIN NUT,5/8-11 SST	4
5	109010	HEX GRIP NUT,3/8-16 SST W/NYLON	8
6	109958	BEARING,4 BOLT,1",UC DRIVE	2
7	111480	CAP SCREW,HEX HEAD,3/8-16 X 3/4 SST,W/LOCTITE	3
8	113970	SPROCKET,UC CONVEYOR DRIVE	3
9	206604	SHAFT,IDLE,EUCCW	1
10	330113	BRACKET,BEARING,PART 1	2
11	330114	BRACKET,BEARING,PART 2	2
12	330115	SCREW WELDMENT,TAKE-UP	2
13	416422	SCREW ASSY,TAKE-UP	2
14	106393	WASHER, FLAT	2

E-UCCW Peg Belt

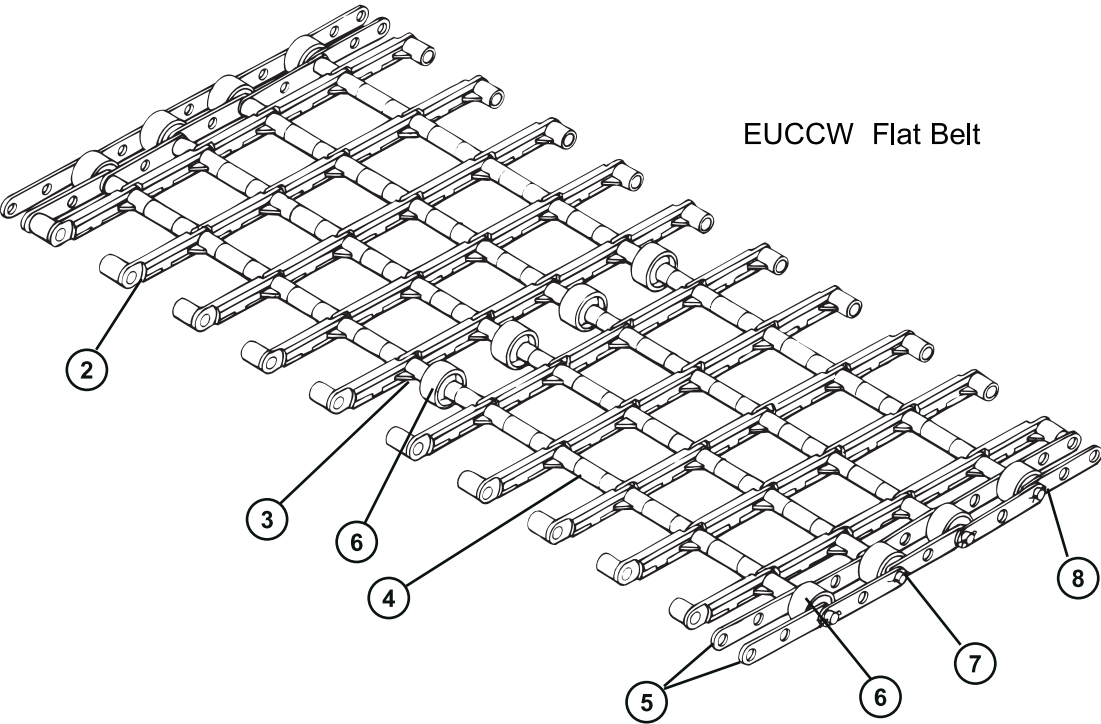


E-UCCW Belt w/Upper rod

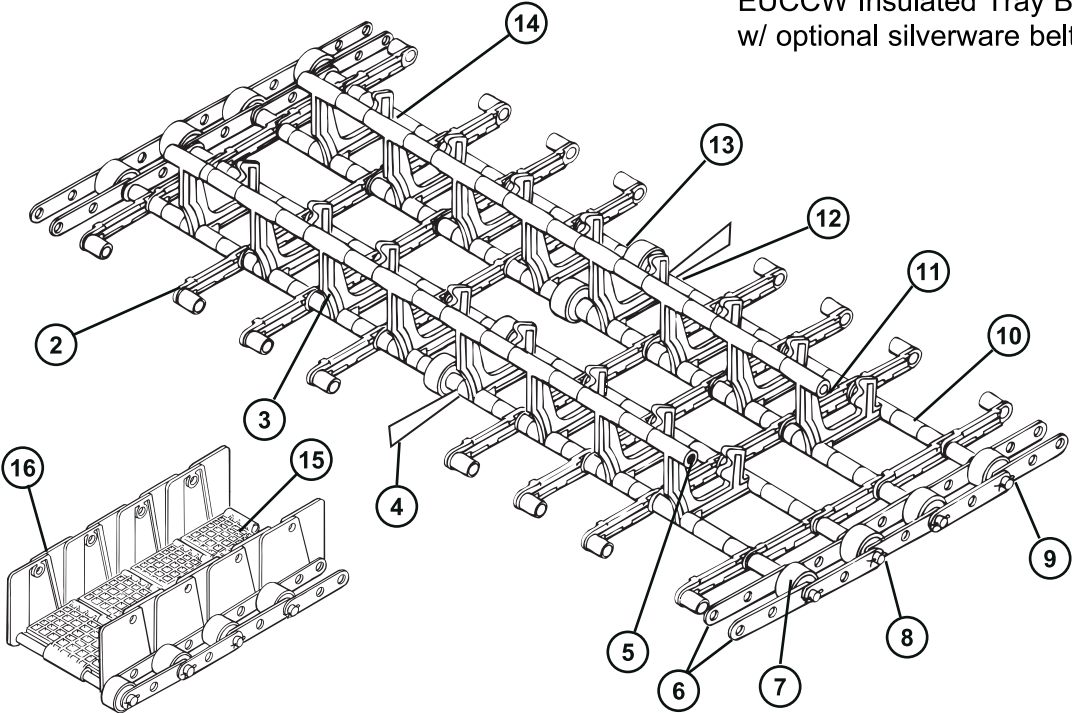


Item No.	Part No.	Description	Qty.
1	404104	Rod Section, Peg Belt,	A/R
2	110092	Link, Upright	10
3	108378	Spacer (11/32 x 5/16)	2
4	108438	Spacer (11/32 x 1-13/32)	8
5	108435	Link, Straight End, Stainless Steel	4
6	108437	Roller, Plastic	3
7	108875	Pin, Cotter	2
8	108381	Rod, Drilled Stainless Steel (5/16 x 29-1/4)	1

Item No.	Part No.	Description	Qty.
1	404106	Rod Section, Peg Belt w/ Upper Rod,	A/R
2	110092	Link, Upright.	10
3	108378	Spacer (11/32 x 5/16)	2
4	108438	Spacer (11/32 x 1-13/32)	8
5	100141	Nut, Grip (1/4-20 SST)	2
6	108435	Link, Straight End, Stainless Steel	4
7	108437	Roller, Plastic	3
8	108875	Pin, Cotter	2
9	108381	Rod, Drilled Stainless Steel (5/16 x 29-1/4)	1
10	202601	Rod, Threaded Stainless Steel (1/4 x 26)	1
11	108439	Spacer (1/2 x 9/32 x 2-9/16)	9



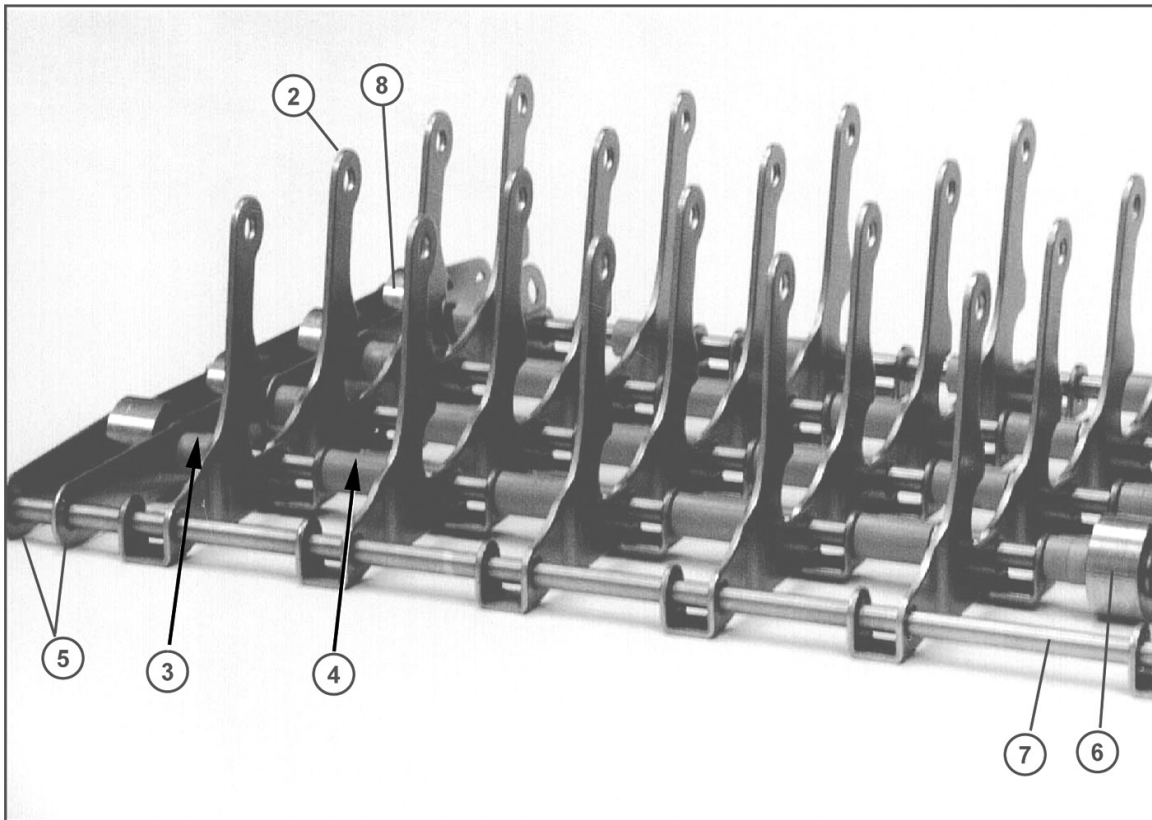
EUCCW Flat Belt



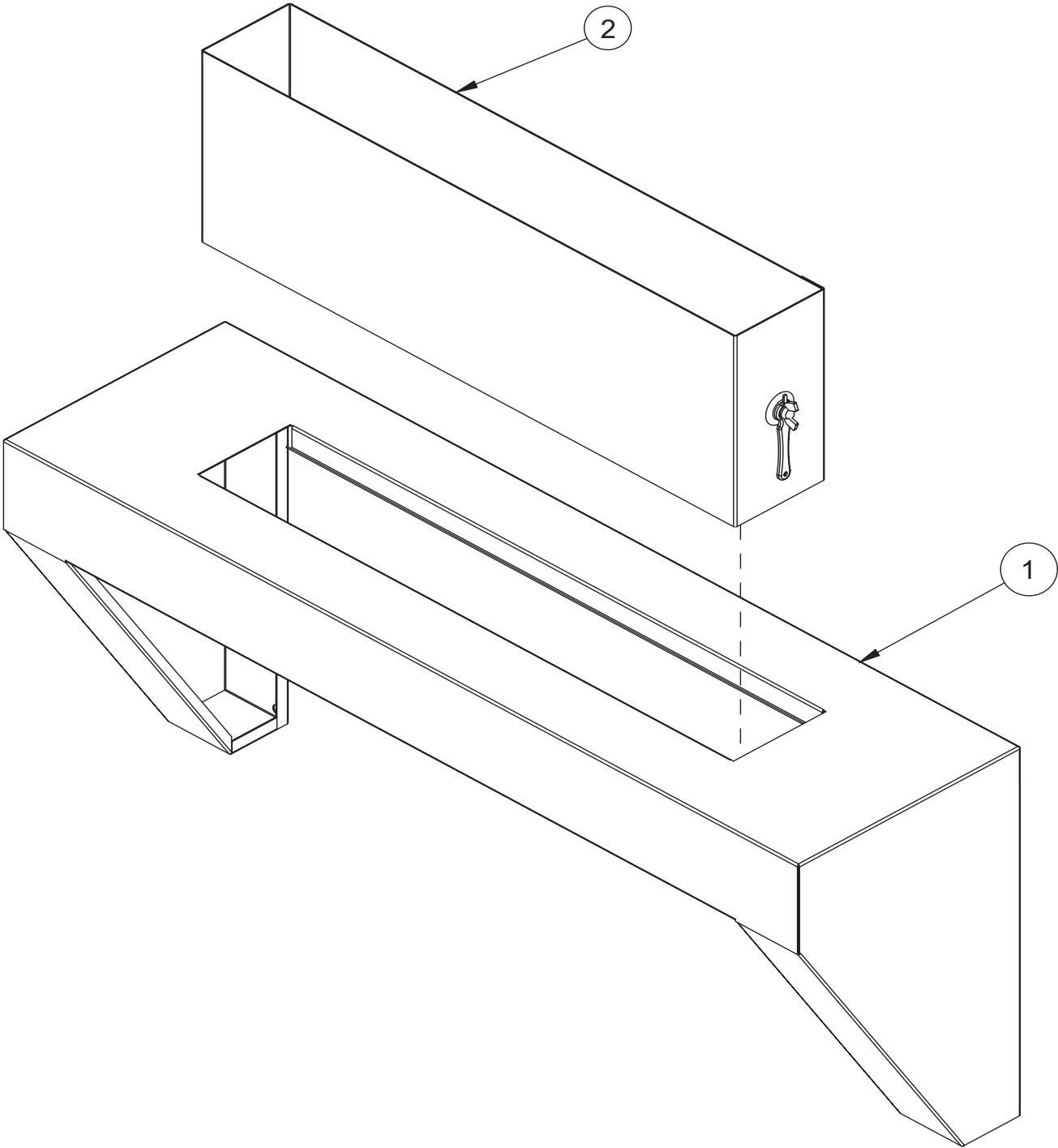
EUCCW Insulated Tray Belt
w/ optional silverware belt

Item No.	Part No.	Description	Qty.
1	402237	TWO Rod Sections, Flat Belt	A/R
2	110094	Link, Flat	20
3	108378	Spacer (11/32 x 5/16)	6
4	108438	Spacer (11/32 x 1-13/32)	16
5	108435	Link, Straight End, Stainless Steel	8
6	108437	Roller, Plastic	6
7	108875	Pin, Cotter	4
8	108381	Rod, Drilled Stainless Steel (5/16 x 29-1/4)	2

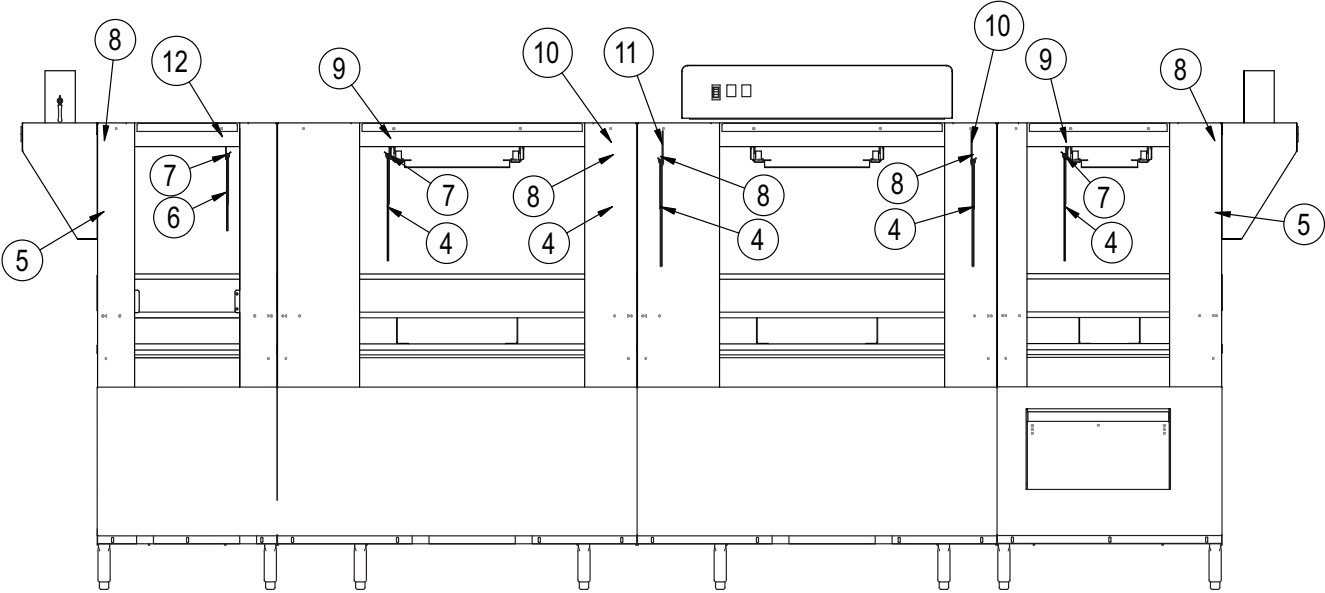
Item No.	Part No.	Description	Qty.
1	402238	TWO Rod Sections	A/R
2	110094	Link, Flat	16
3	109030	Link, Upright Poly	8
4	204995	Link, Flat Modified	1
5	100141	Nut, Grip (1/4-20 SST)	2
6	108435	Link, Straight End, Stainless Steel	8
7	108437	Roller, Plastic	6
8	108875	Pin, Cotter	4
9	108381	Rod, Drilled Stainless Steel (5/16 x 29-1/4)	2
10	109282	Spacer (11/32 x 1-1/32)	4
11	109224	Rod, Threaded Stainless Steel (1/4 x 22-1/4)	1
12	102376	Washer (5/16 x 3/4 x 1/16)	2
13	108378	Spacer (11/32 x 5/16)	2
14	109187	Spacer (9/32 x 1-13/32)	7
SILVERWARE BELT			
15	109164	Link, Flat, Silverware Belt	2
16	109163	Link, Side, Silverware Belt	4



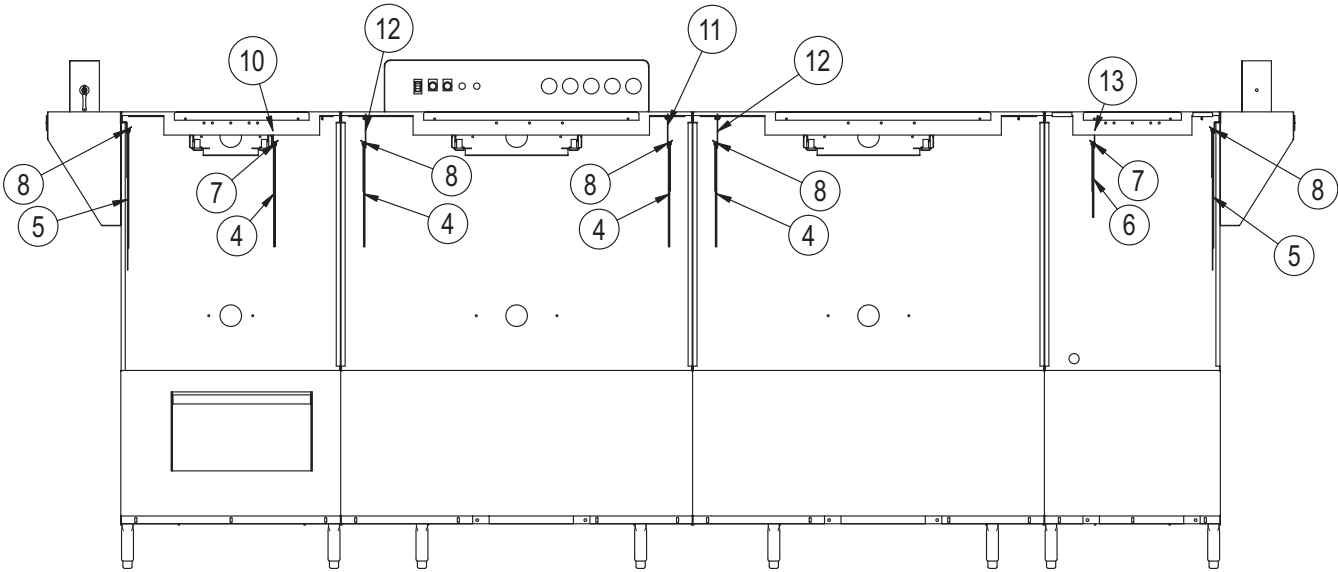
Item No.	Part No.	Description	Qty.
1	408013	Rod Section, Stainless Steel peg belt	A/R
2	111421	Link, Stainless Steel Upright.	10
3	109282	Spacer (11/32 x 1-1/32)	8
4	108378	Spacer (11/32 x 5/16)	8
5	108435	Link, Straight End, Stainless Steel	4
6	108375	Roller, Stainless Steel	3
7	108381	Rod, Drilled Stainless Steel (5/16 x 29-1/4)	1
8	108875	Pin, Cotter (Not Shown)	2
—	100141	Nut, Grip (1/4-20 SST)	2
—	202601	Rod, Threaded (1/4 x 26)	1



Item No.	Part No.	Description	Qty.
1	329806	VENT COWL WELDMENT, UCW-04	1
2	401486	VENT STACK 4 x 24	1



R-L



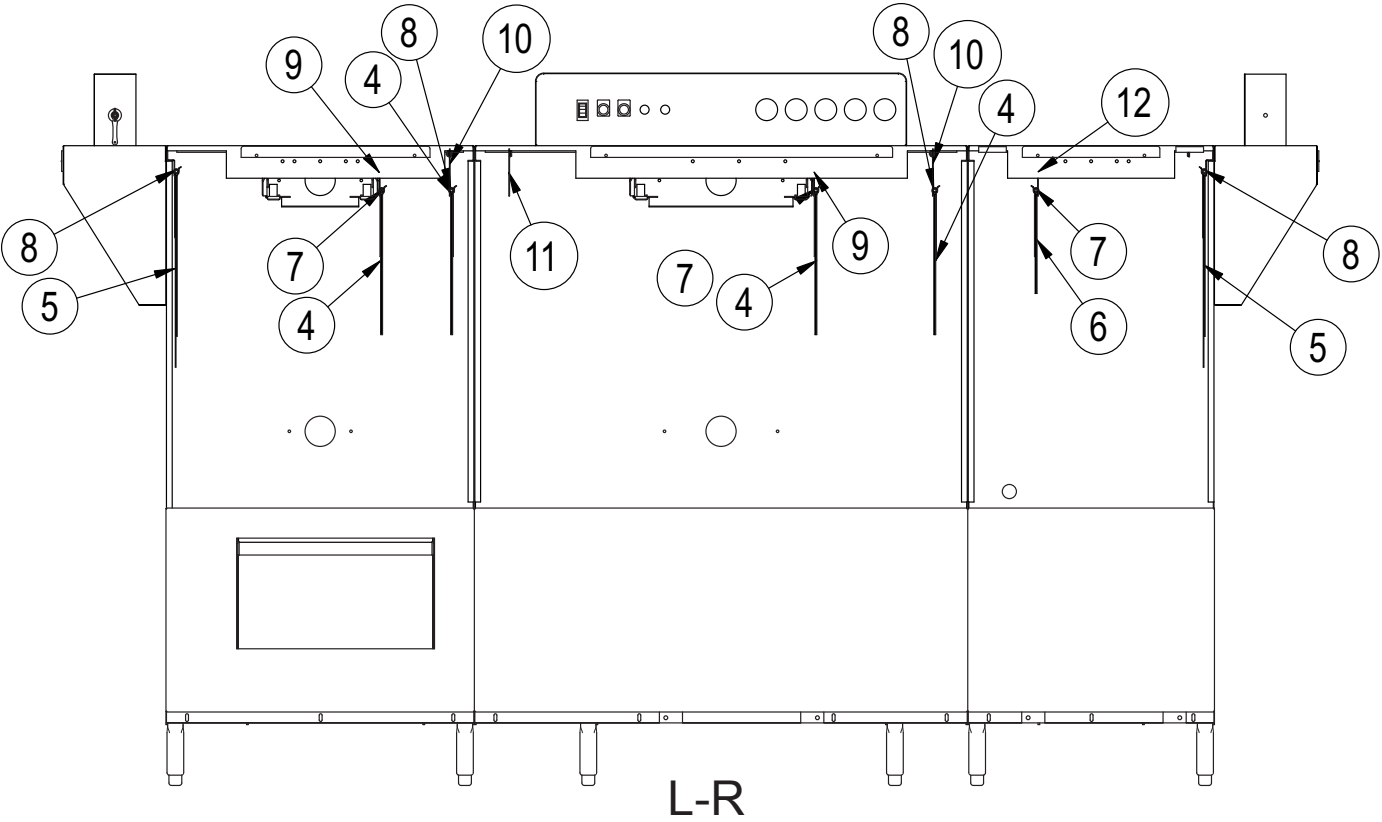
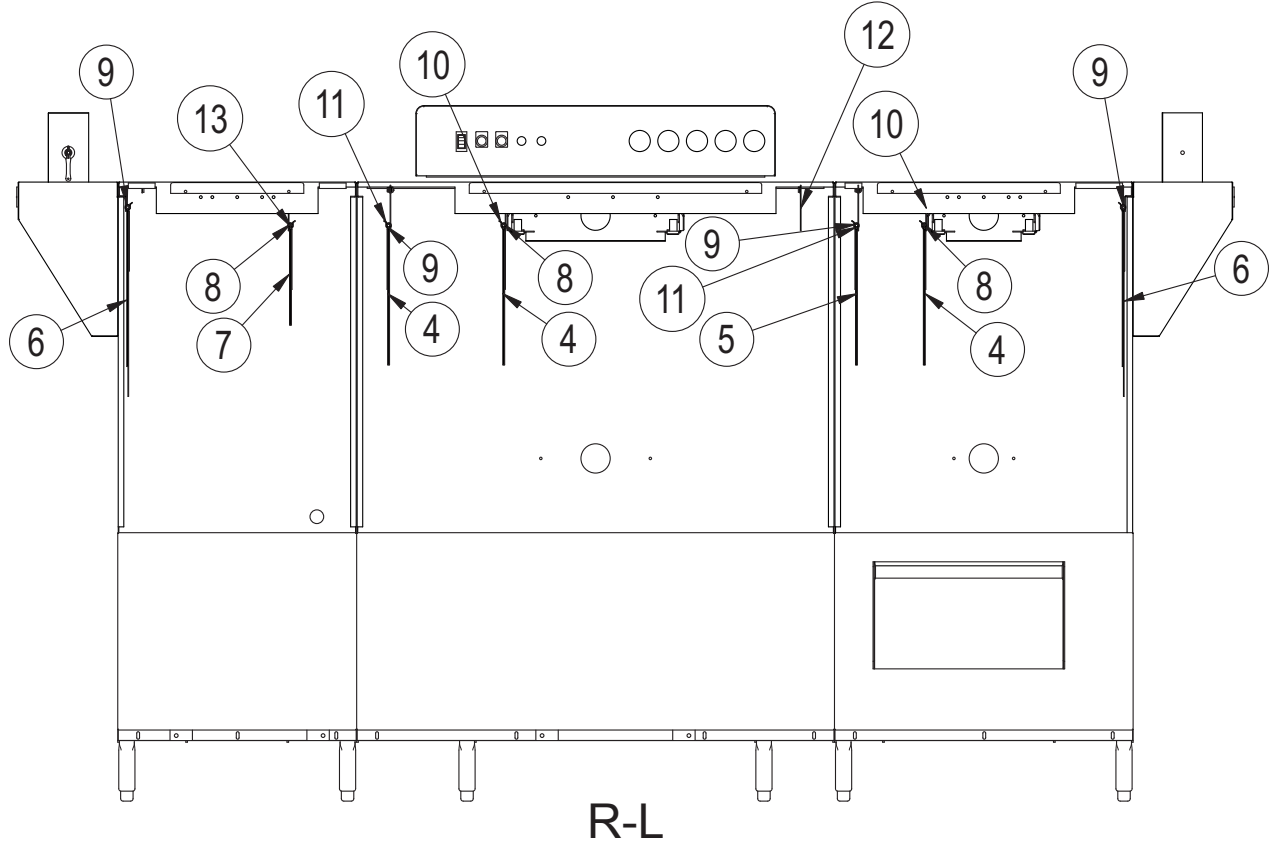
L-R

R-L

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	12
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	12
3	106482	WASHER,LOCK,1/4 SPLIT,SST	12
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	5
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX-RINSE.	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	3
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	5
9	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	2
10	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	2
11	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	1
12	331200-1	BAFFLE, CURTAIN HANGER,AUX. CENTER, R-L	1

L-R

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD,1/4-20 X 1/2 SST	10
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	10
3	106482	WASHER,LOCK,1/4 SPLIT,SST	10
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	4
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX.-RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	5
9	329088	HOOD WELDMENT,C4R-B,ELEC/STEAM	1
10	329719-1	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,RH	1
11	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	1
12	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
13	331200-2	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER, L-R	1

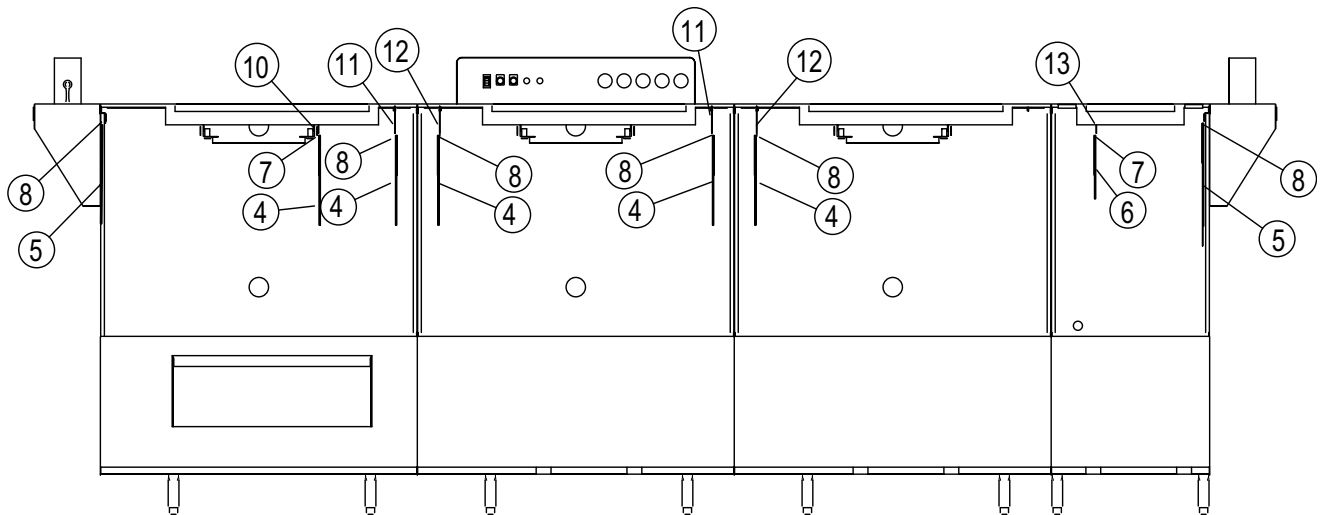


R-L

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	10
2	106026	WASHER, FLAT, 1/4x5/8x.06 SST	10
3	106482	WASHER, LOCK, 1/4 SPLIT, SST	10
4	112445	CURTAIN, DISHWASHER, UC MACHINE	3
5	114110	CURTAIN, DISHWASHER, UC MACHINE	1
6	114111	CURTAIN, DISHWASHER, UC MACHINE	2
7	204949	CURTAIN, DISHWASHER, UC MACHINE	1
8	205432	ROD, CURTAIN, 5/16 X 32" LG. SST, UCCW	3
9	206581	ROD, CURTAIN, 5/16 X 34 1/4" LG. SST, UCCW	4
10	329719-2	BAFFLE, CURTAIN HANGER, MANIFOLD MTD, LH	2
11	329720-2	BAFFLE, CURTAIN HANGER, HOOD MTD, RH	2
12	330497	BAFFLE, CURTAIN, BLANK, HOOD MTD	1
13	331200-1	BAFFLE, CURTAIN HANGER, AUX. RINSE CENTER, R-L	1

L-R

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	10
2	106026	WASHER, FLAT, 1/4x5/8x.06 SST	10
3	106482	WASHER, LOCK, 1/4 SPLIT, SST	10
4	112445	CURTAIN, SHORT, 14 X 32, NUCCW	4
5	114111	CURTAIN, LONG, 19 X 34 1/4, EUCCW	2
6	204949	CURTAIN, SHORT, 10 X 32, NUCCW E2	1
7	205432	ROD, CURTAIN, 5/16 X 32" LG. SST, UCCW	3
8	206581	ROD, CURTAIN, 5/16 X 34 1/4" LG. SST, UCCW	4
9	329719-1	BAFFLE, CURTAIN HANGER, MANIFOLD MTD, RH	2
10	329720-1	BAFFLE, CURTAIN HANGER, HOOD MTD, LH	2
11	330497	BAFFLE, CURTAIN, BLANK, HOOD MTD	1
12	331200-2	BAFFLE, CURTAIN HANGER, AUX. RINSE CENTER, L-R	1

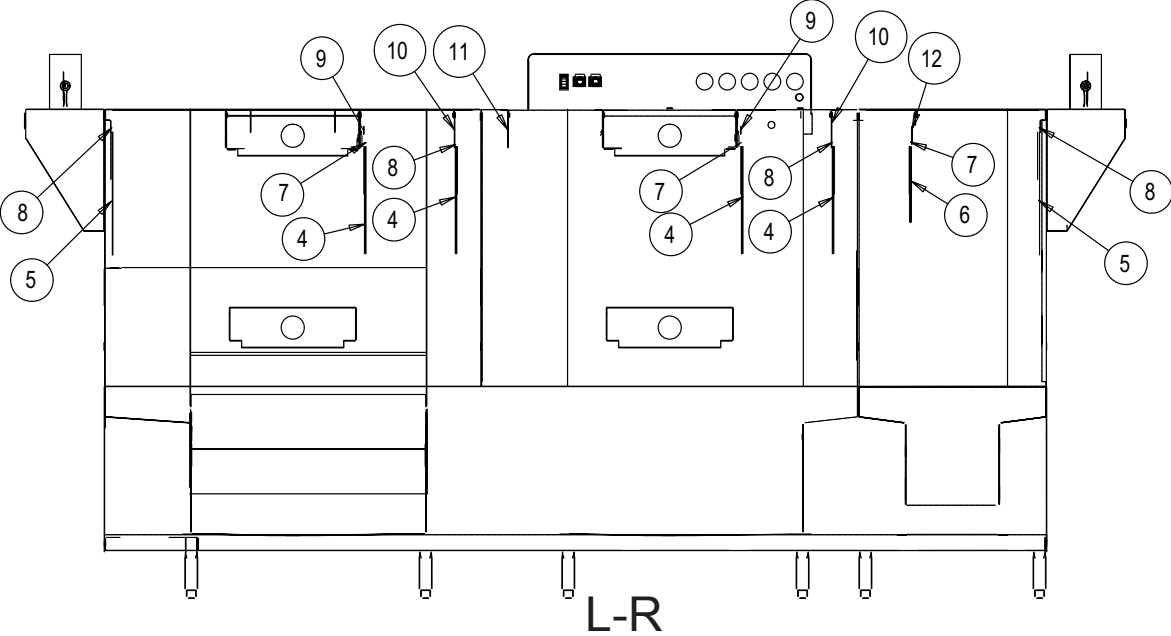
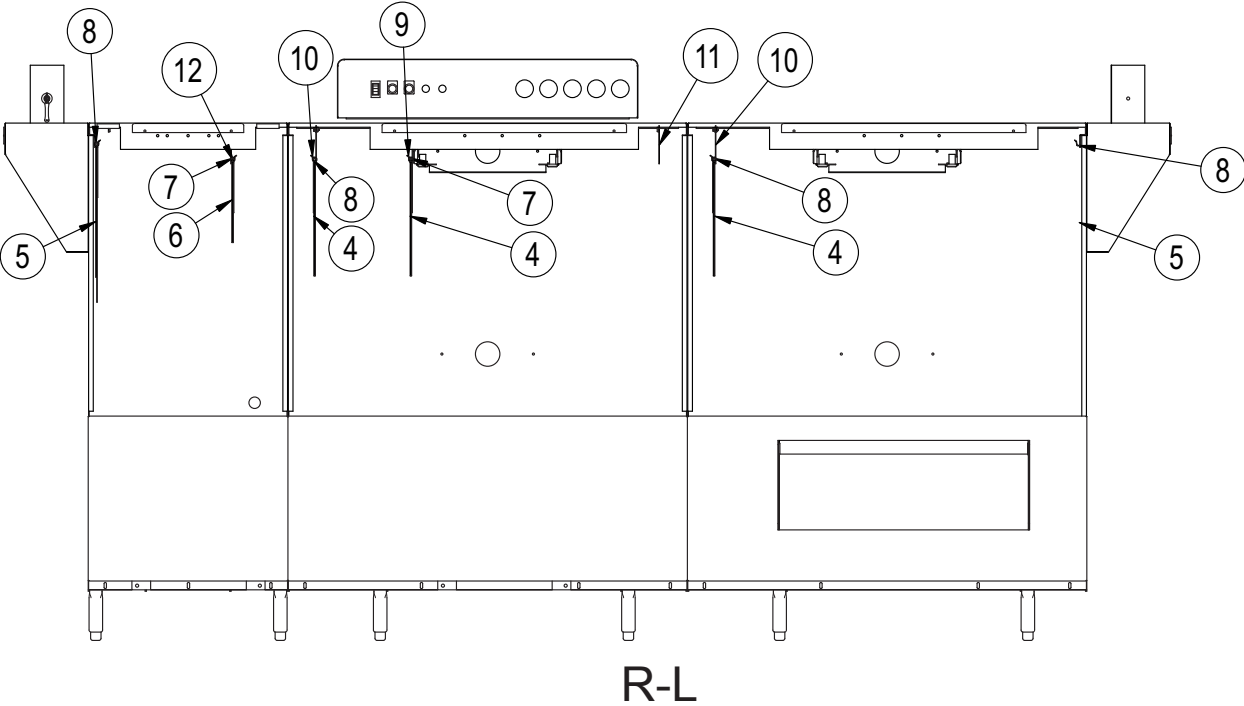


R-L

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	12
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	12
3	106482	WASHER,LOCK,1/4 SPLIT,SST	12
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	5
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX. RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	6
9	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	1
10	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	2
11	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
12	331200-1	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER,R-L	1

L-R

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	12
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	12
3	106482	WASHER,LOCK,1/4 SPLIT,SST	12
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	5
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW E2	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	6
9	329088	HOOD WELDMENT,C4R-B,ELEC/STEAM	1
10	329719-1	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,RH	1
11	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	2
12	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2

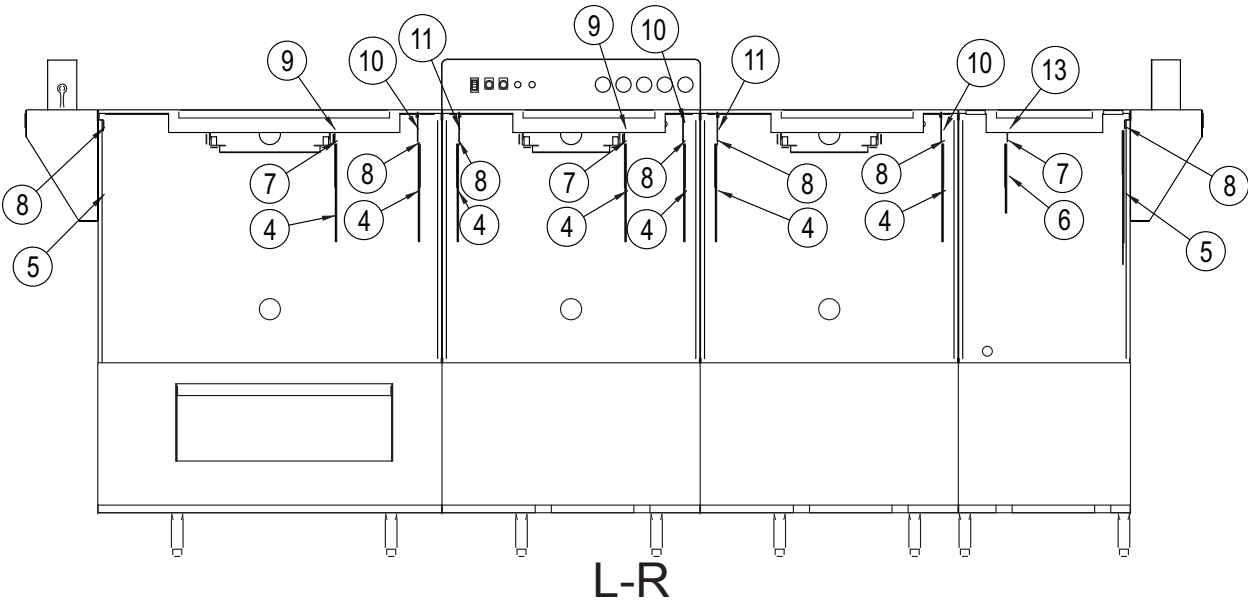
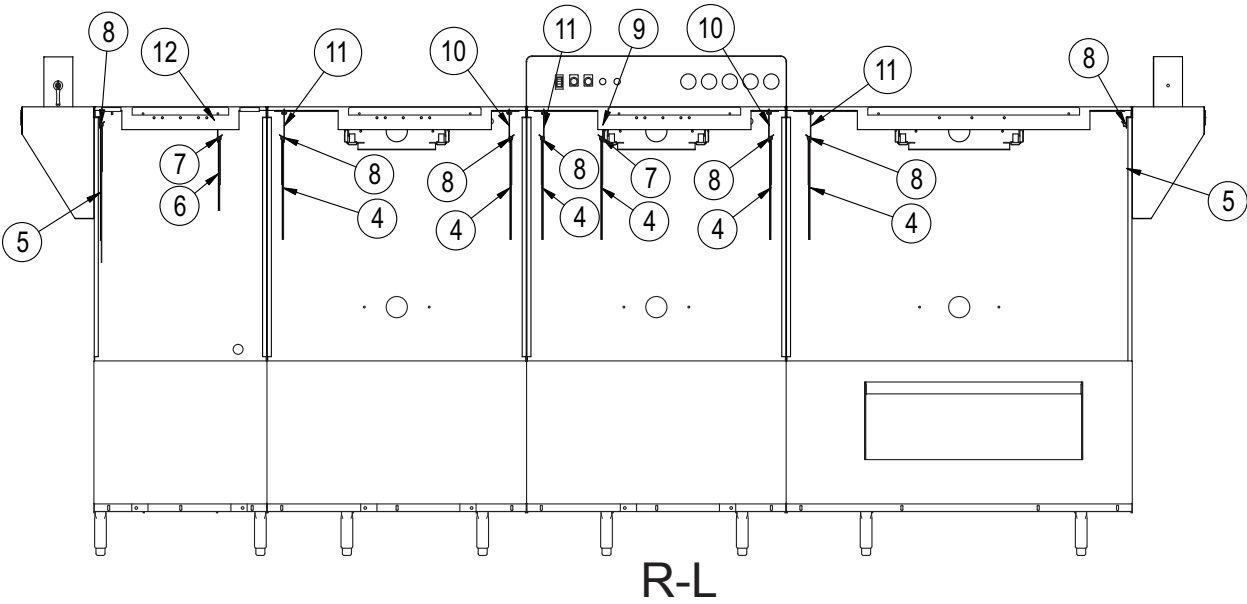


R-L

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	8
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	8
3	106482	WASHER,LOCK,1/4 SPLIT,SST	8
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	3
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX. RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	4
9	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	1
10	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
11	330497	BAFFLE, CURTAIN ,BLANK,HOOD MTD	1
12	331200-1	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER,R-L	1

L-R

Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	8
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	8
3	106482	WASHER,LOCK,1/4 SPLIT,SST	8
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	3
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX. RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	4
9	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	1
10	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
11	330497	BAFFLE, CURTAIN ,BLANK,HOOD MTD	1
12	331200-1	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER,R-L	1

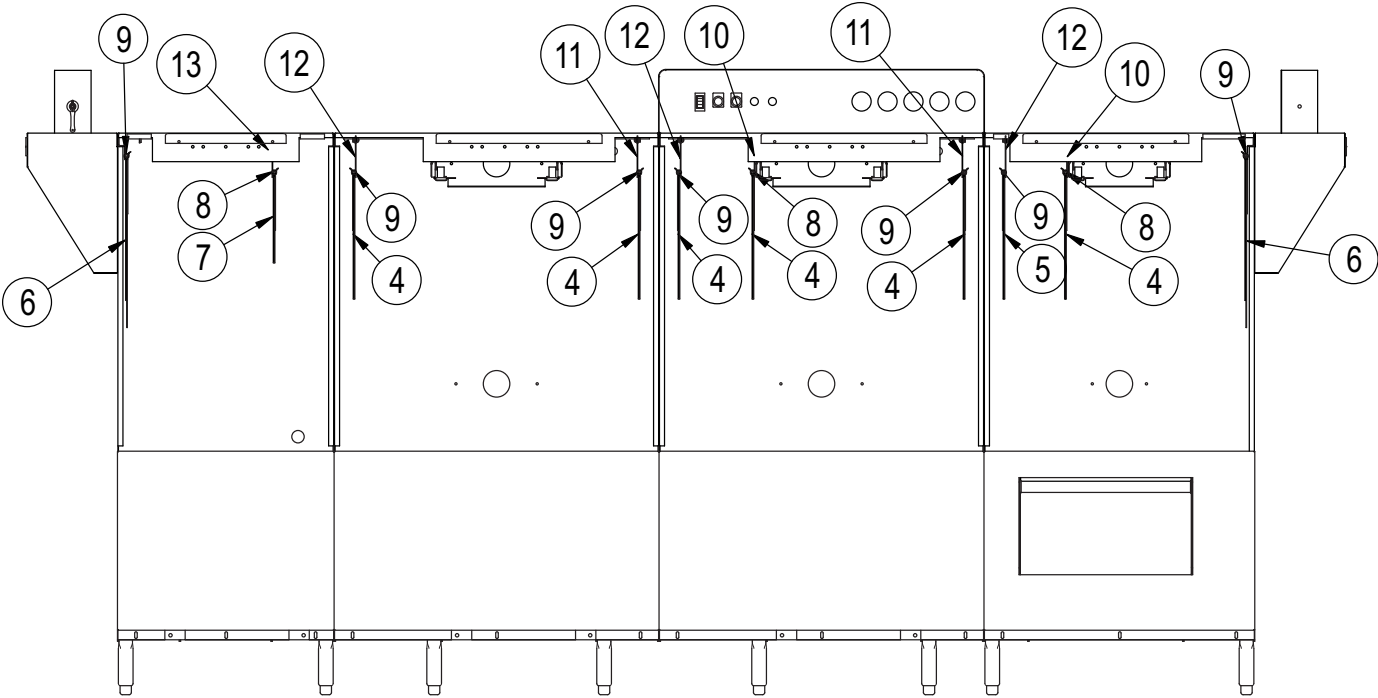


R-L

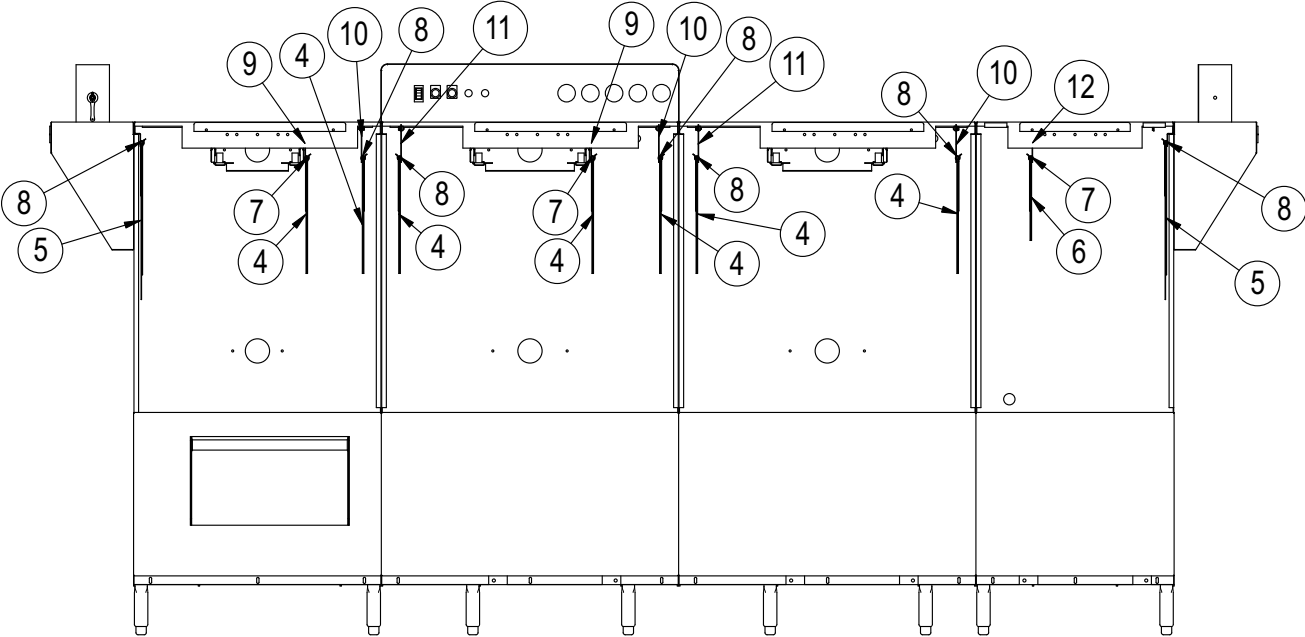
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	14
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	14
3	106482	WASHER,LOCK,1/4 SPLIT,SST	14
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	6
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW E2	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	2
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	7
9	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	1
10	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	2
11	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	3
12	331200-1	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER,R-L	1

L-R

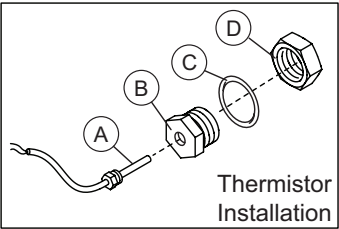
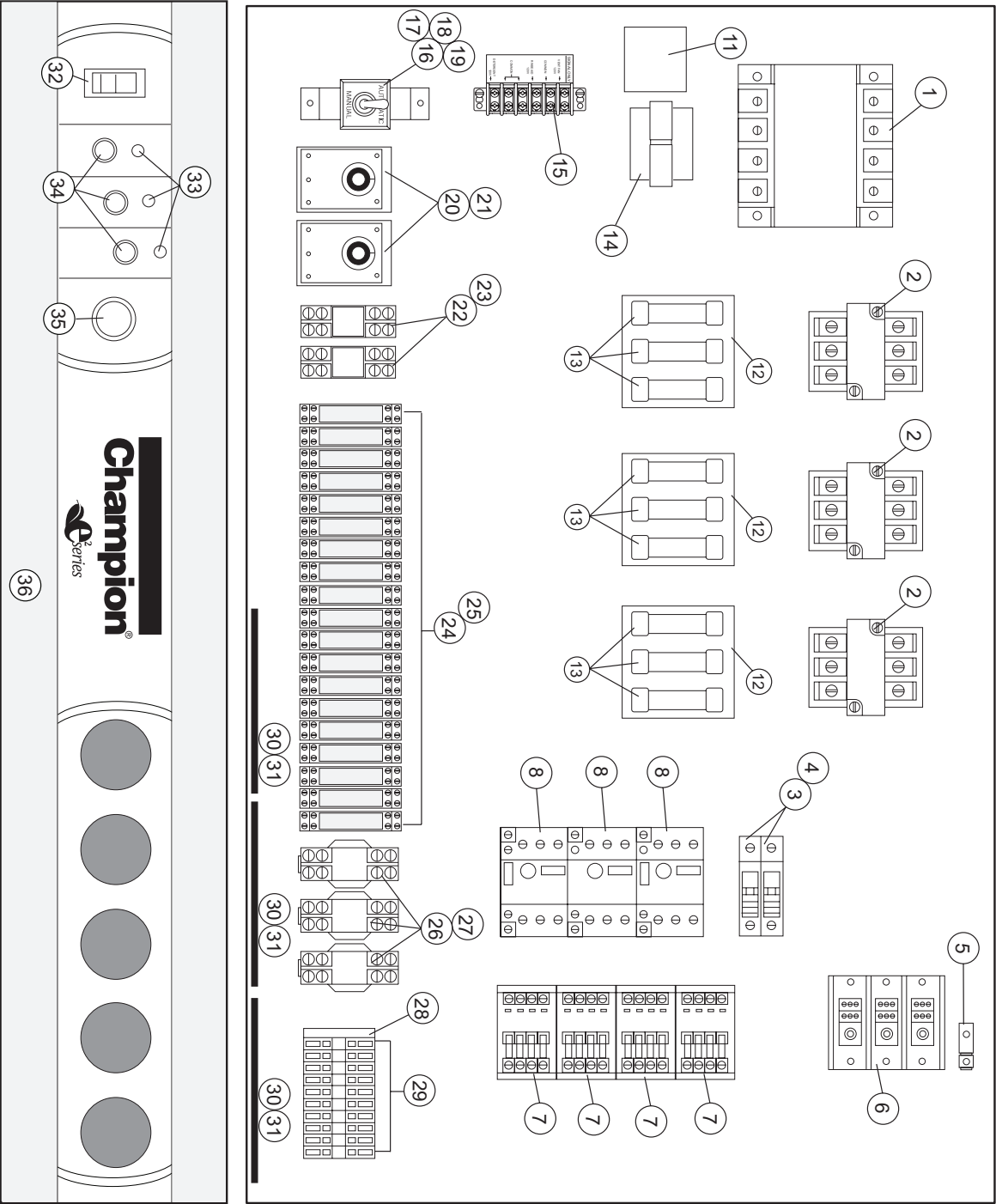
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	16
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	16
3	106482	WASHER,LOCK,1/4 SPLIT,SST	16
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	7
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX. RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	3
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	7
9	329719-1	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,RH	2
10	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	3
11	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
12	330223	HOOD WELDMENT,C3R-B,ELEC/STEAM	1
13	331200-2	BAFFLE, CURTAIN HANGER,AUX. RINSE CENTER,L-R	1



Item No.	Part No.	Description	Qty.
1	100734	CAP SCREW,HEX HEAD,1/4-20 X 1/2 SST	16
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	16
3	106482	WASHER,LOCK,1/4 SPLIT,SST	16
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	6
5	114110	CURTAIN,SHORT,14 X 34 1/4,EUCCW	1
6	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
7	204949	CURTAIN,SHORT,10 X 32,NUCCW E2	1
8	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	3
9	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	7
10	329719-2	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,LH	2
11	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	2
12	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	3
13	331200-1	BAFFLE, CURTAIN HANGER,E2 CENTER,R-L	1



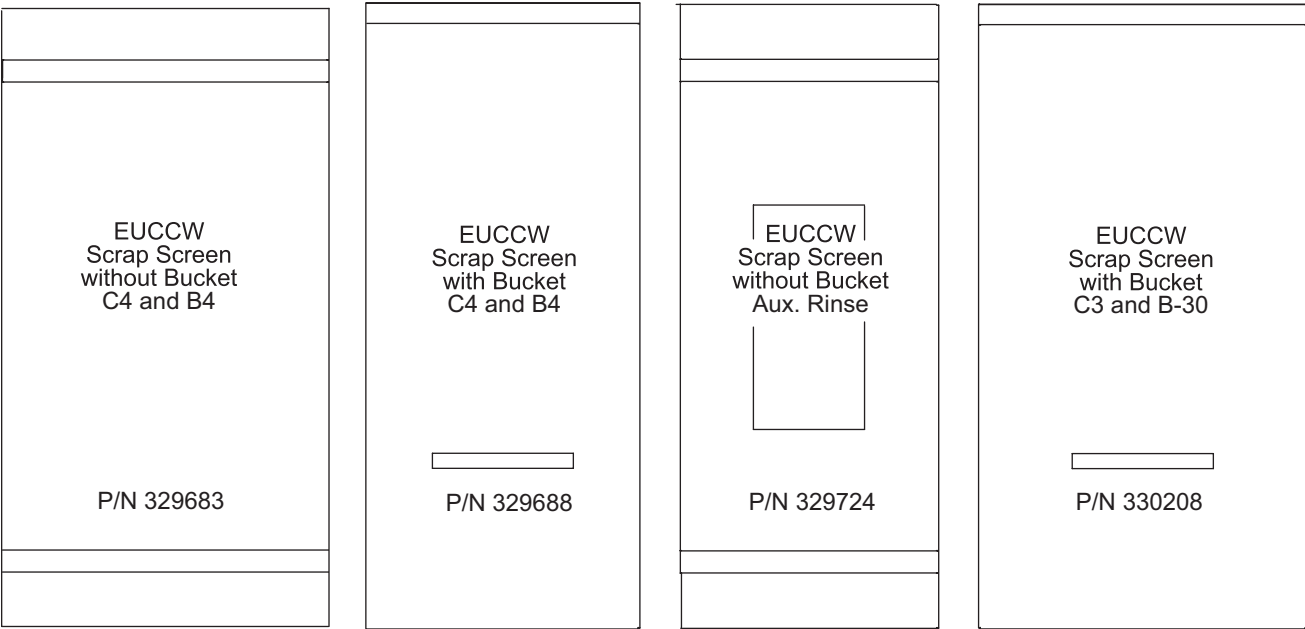
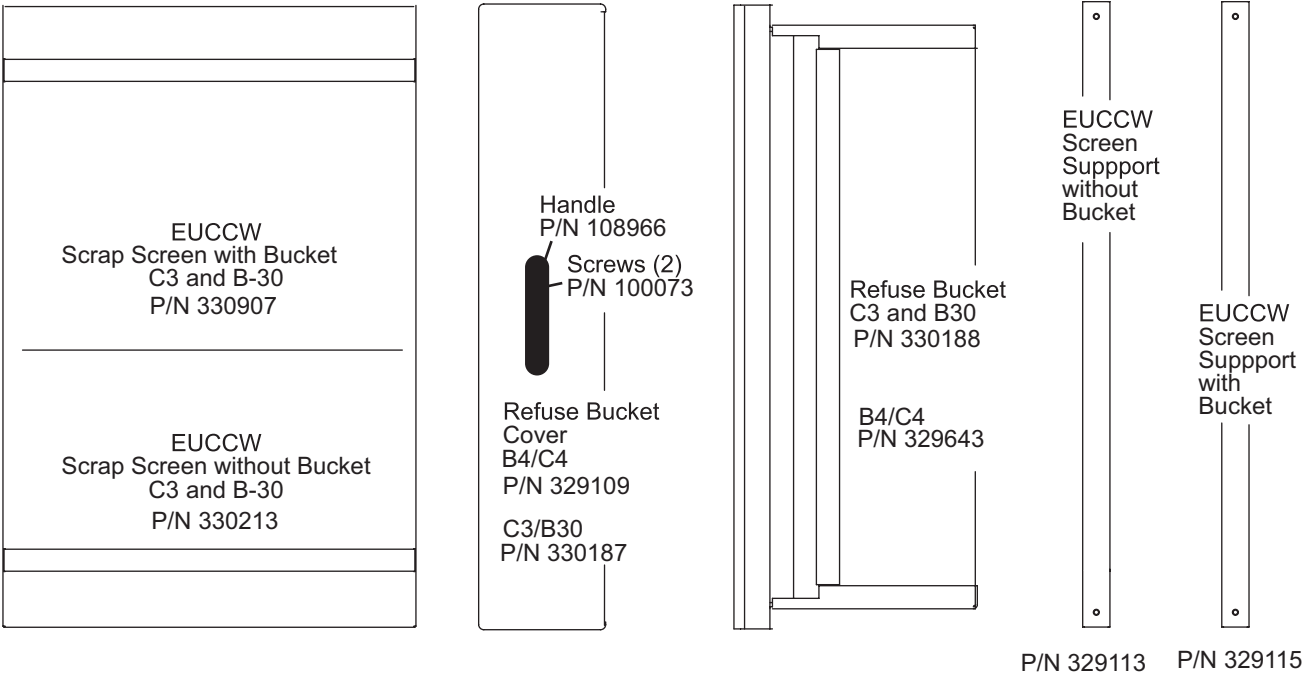
Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	16
2	106026	WASHER,FLAT,1/4x5/8x.06 SST	16
3	106482	WASHER,LOCK,1/4 SPLIT,SST	16
4	112445	CURTAIN,SHORT,14 X 32,NUCCW	7
5	114111	CURTAIN,LONG,19 X 34 1/4,EUCCW	2
6	204949	CURTAIN,SHORT,10 X 32,NUCCW AUX. RINSE	1
7	205432	ROD,CURTAIN,5/16 X 32"LG.SST,UCCW	3
8	206581	ROD,CURTAIN,5/16 X 34 1/4"LG.SST,UCCW	7
9	329719-1	BAFFLE, CURTAIN HANGER.MANIFOLD MTD,RH	2
10	329720-1	BAFFLE, CURTAIN HANGER,HOOD MTD,LH	3
11	329720-2	BAFFLE, CURTAIN HANGER,HOOD MTD,RH	2
12	331200-2	BAFFLE, CURTAIN HANGER, AUX. RINSE CENTER,L-R	1



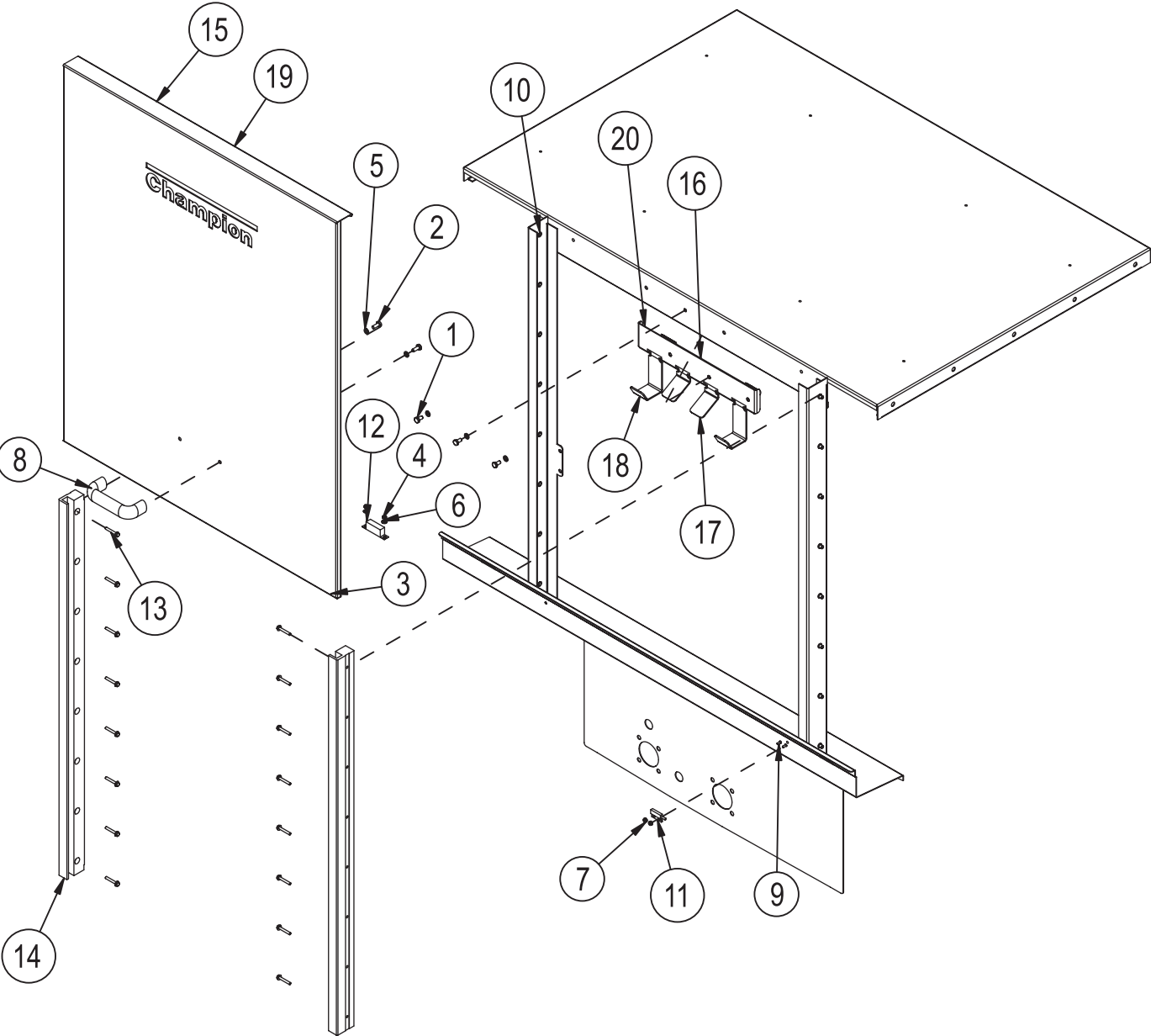
Item No.	Part No.	Description	Qty.
1	180081	TRANSFORMER, 750VA 240/480:120V	2
2	111827	CONTACTOR, 60FLA, 3P 120V COIL	1
3	111153	BLOCK, FUSE DIN RAIL 600V 30A	2
4	111823	FUSE, LPCC-6 600V TIME DELAY	4
5	103310	LUG, GROUND	1
6	111833	TERMINAL BLOCK, 175A, 3 POLE, 600V	1
7	108122	CONTACTOR, 12A	4
8	113161	STARTER, MOTOR 9-14.0A	3
9	702023	BLOWER DRYER TIMER KIT	1
---	111036	RELAY 120VAC	1
----	111068	SOCKET, RELAY	1
10	180081	TRANSFORMER, 750A (Located in booster control cabinet)	1
11	114413	TIMER, 30 SECONDS	1
12	180171	BLOCK, FUSE 600V/60A 3P J-TYPE	1
13	180172	FUSE, J 35A, 600V, FAST-ACTING	9
14	111277	TRANSFORMER, 120V:24V50/60HZ	1
15	100294	TERMINAL BLOCK, 6PT	1
16	304326	BRACKET, SWITCH	1
17	107198	SWITCH, TOGGLE 3PDT, ON/OFF	1
18	108370	WASHER, LOCK	1
19	104858	NAMPEPLATE, AUTOMATIC/MANUAL	1
20	114640	TIMER, UC PUMP AND RINSE	2
21	114641	BASE, TIMER	2
22	114644	RELAY, LATCH DPDT 24VAC, 8A	2
23	114645	BASE, RELAY	2
24	114642	RELAY, DPDT 24VAC, 8A	19
25	114643	BASE, RELAY	19
26	111068	RELAY, 2PDT 120VAC, 10A	3
27	111036	RELAY, SOCKET	3
28	114521	END COVER, SINGLE TERMINAL D-MZB	1
29	114520	TERMINAL, SINGLE MZB 1.5-NS35	10
30	114489	GAUGE, DIGITAL TEMPERATURE DISPLAY	3
31	114508	CABLE ASSEMBLY, 4-COND. FOR THERMISTOR	3
32	114505	BREAKER, 14A, ON-OFF	1
33	702084	LED ASSY.	3
34	114554	SWITCH, PIEZO MOMENTARY N.O. 16MM	3
35	0512213	SWITCH, PIEZO MOMENTARY N.C. 22MM	1
36	114565	DECAL 36" CONTROL CAB RL DIGITAL DISPLAY	1
---	114654	DECAL 36" CONTROL CAB LR DIGITAL DISPLAY	N/S

Temperature sensing thermistor are installed the wash tanks and final rinse piping.
The temperature signals are connected to the digital temperature display gauges (Item 30) in the main control cabinet.

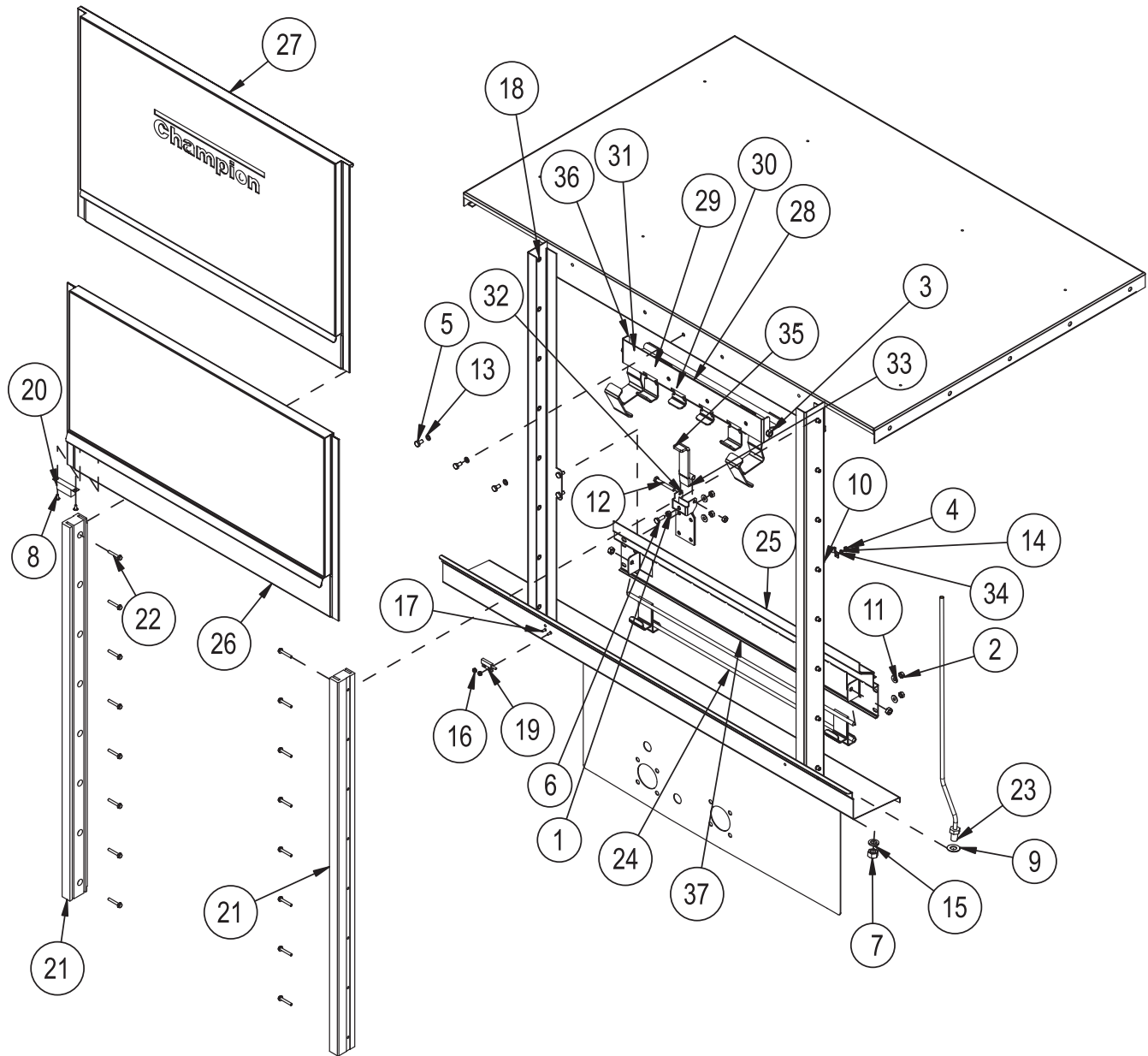
A	114435	THERMISTOR, 10K 36" LEAD	1
B	0512299	ADAPTER, THERMISTOR	1
C	0501836	O-RING	1



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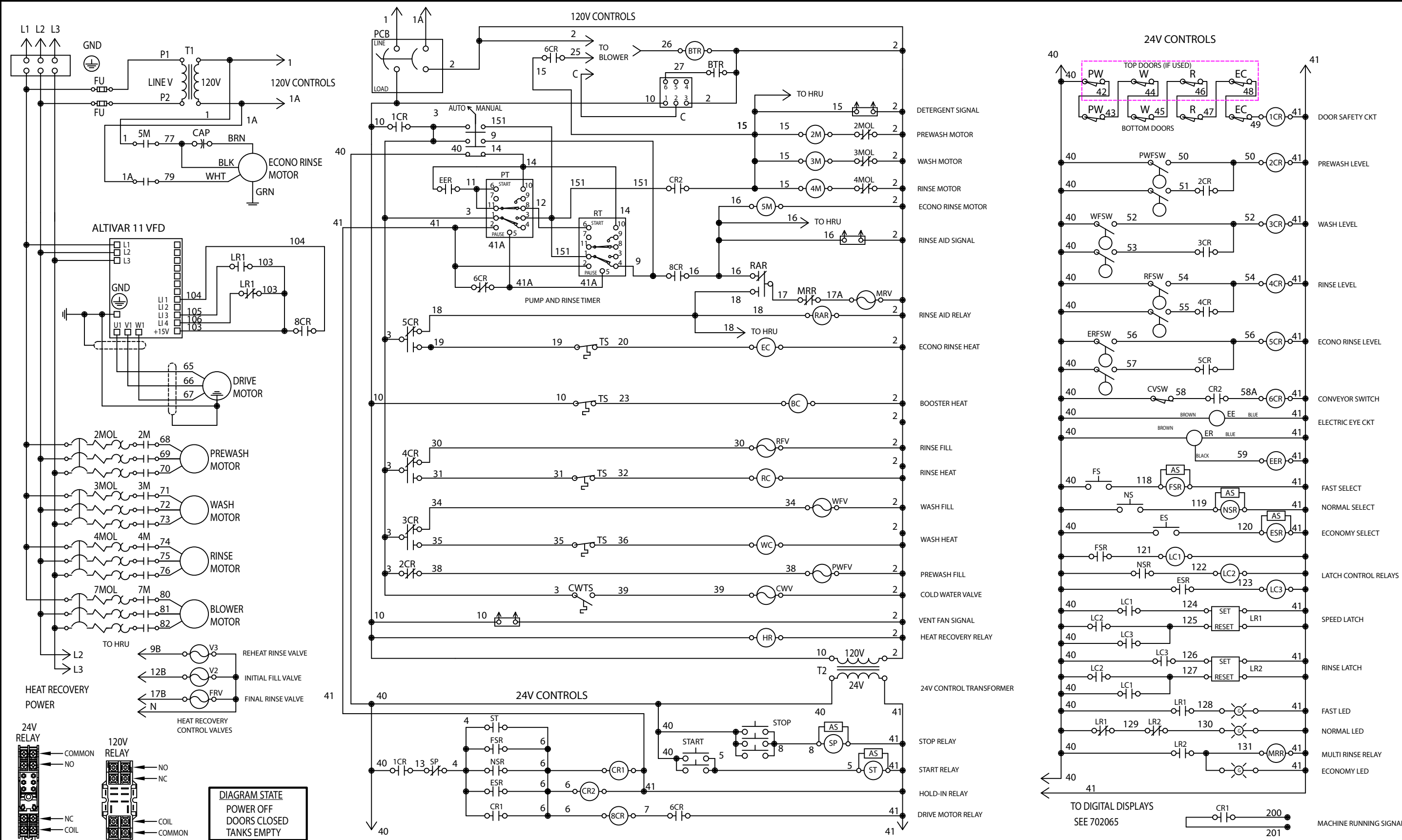


Item No.	Part No.	Description	Qty.
1	100734	HEX HEAD, 1/4-20 X 1/2 SST	3
2	100735	HEX HEAD, 1/4-20 X 5/8 SST	2
3	100750	SCREW, FLAT, 6-32 X 3/8 SST	2
4	104971	HEX GRIP NUT, 6-32 SST	2
5	106482	WASHER, LOCK, 1/4-20 SPLIT	5
6	107033	WASHER, FLAT SST	2
7	108954	HEX GRIP NUT, 6-32 SST W/NYLON	2
8	108966	HANDLE, DOOR	1
9	-----	STUD, NOT A REPLACEMENT PART	--
10	-----	RIVNUT, NOT A REPLACEMENT PART	--
11	113719	REED SWITCH	1
12	113937	MAGNET, REED SWITCH	1
13	114004	SCREW 10-32 x 1-1/4" HEX WASHER HEAD SST	16
14	114117	GUIDE, DOOR	2
15	330248	DOOR, 30" STD. EUC	
---	330249	DOOR, 14" STD. EUC	
---	330250	DOOR, 19" STD. EUC	
---	331304	DOOR, 30" HI-HOOD	
---	331305	DOOR, 14" HI-HOOD	
---	331306	DOOR, 19" HI-HOOD	
16	330301	BRACKET, DOOR CATCH 30"	1
---	330300	BRACKET, DOOR CATCH 14" / 19"	1
17	330303	STOP, DOOR CATCH COMBO 30"	1
---	330302	STOP, DOOR CATCH COMBO 14" / 19"	1
18	330305	DOOR CATCH, SINGLE DOOR 30"	1
---	330307	DOOR CATCH, SINGLE DOOR 14" / 19"	1



Item No.	Part No.	Description	Qty.
1	100003	HEX PLAIN NUT 1/4-20 SST	1
2	100141	HEX GRIP NUT 1/4-20 SST	5
3	100142	HEX GRIP NUT 5/16-18 SST	4
4	104971	HEX GRIP NUT, 6-32 SST	1
5	100734	HEX HEAD, 1/4-20 X 1/2 SST	7
6	100736	HEX HEAD, 1/4-20 X 3/4 SST	1
7	104584	HEX PLAIN NUT 1/2-13 SST	1
8	104624	SCREW, TRUSS HD, 8-32 X 1/2	2
9	104882	WASHER, FLAT SST	--
10	-----	STUD, NOT A REPLACEMENT PART	--
11	106026	WASHER, FLAT SST	4
12	106347	HEX HEAD, 1/4-20 X 2 SST	1
13	106482	WASHER, LOCK, 1/4-20 SPLIT	3
14	106486	WASHER LOCK SST	1
15	107589	WSHER, LOCK 1/2	1
16	108954	HEX GRIP NUT 6-32 W/NYLON	2
17	-----	STUD, NOT A REPLACEMENT PART	--
18	-----	RIVNUT, NOT A REPLACEMENT PART	--
19	113719	REED SWITCH	1
20	113937	MAGNET, REED SWITCH	1
21	113979	GUIDE DOOR	2
22	114004	SCREW, 10-32 x 1-1/4 HEX WASHER HEAD, SST	16
23	114100	REED SWITCH UPPER DOOR	1
24	329968	DOOR CATCH, LOWER, 30"	1
---	329969	DOOR CATCH, LOWER, 14"	1
---	330433	DOOR CATCH, LOWER, 19"	1
25	330453	DOOR STOP, LOWER, 30"	1
25	330454	DOOR STOP, LOWER, 14"	1
25	330455	DOOR STOP, LOWER, 19"	1
26	330480	DOOR, LOWER INSULATED, 30"	1
---	330481	DOOR, LOWER INSULATED, 19"	1
---	330482	DOOR, LOWER INSULATED, 14"	1
27	330498	DOOR UPPER INSULATED, 30"	1
---	330499	DOOR UPPER INSULATED, 19"	1
---	330500	DOOR UPPER INSULATED, 14"	1
28	330525	BRACKET, DOOR CATCH, 30"	1
---	330550	BRACKET, DOOR CATCH, 14"/19"	1
29	330526	HOOK, DOOR CATCH, UPPER DOOR, 30"	1
---	330548	HOOK, DOOR CATCH, UPPER DOOR, 14"/19"	1
30	330527	STOP, DOOR CATCH, 30"	1
---	330540	STOP, DOOR CATCH, 14"/19"	1
31	330528	HOOK, DOOR CATCH, LOWER DOOR, 30"	1
---	330546	HOOK, DOOR CATCH, LOWER DOOR, 14"/19"	1
32	330537	BRACKET, SAFETY DOOR	1
33	330539	ARM, SAFETY CATCH	1
34	330552	BRACKET, DOOR SWITCH, HOLD-DOWN	1
35	114474-1	DOOR GUIDE,LH, HIGH HOOD	1
36	-----	-----	1

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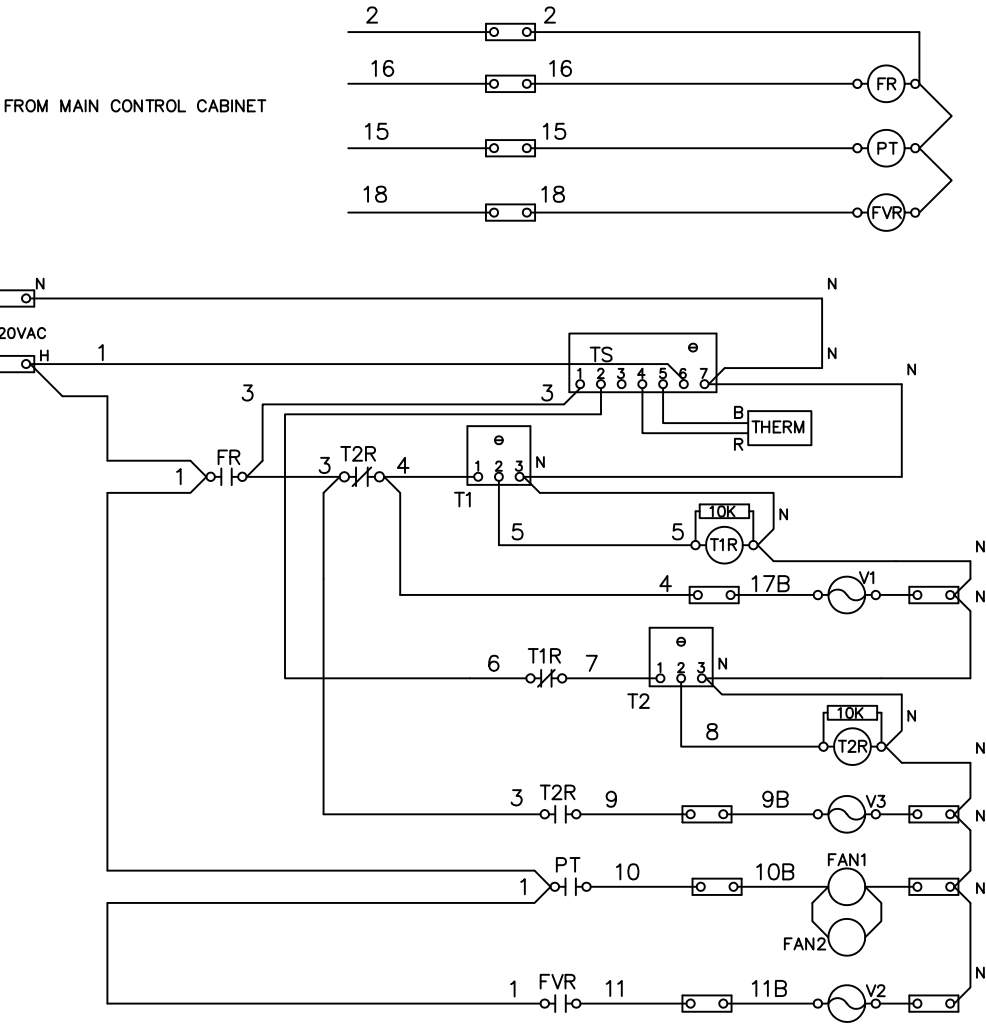
CUSTOMER TO SUPPLY RATED VOLTAGE/PHASE/Hz, AS SPECIFIED PER ORDER. TO DISCONNECT SWITCH, ALL POWER SUPPLIED TO EACH CONNECTION POINT MUST COMPLY WITH ALL LOCAL ELECTRIC CODES.				REV.				REV.				EEUCCW8PW			
DR.BY J.MCALLISTER				DESCRIPTION				DESCRIPTION				208V STEAM HRU BD			
DATE 08DEC09				DATE				DATE				B 702257			
SCALE NONE				BY				BY				REV.			
SHEET 1 OF 1															

Champion
The Dishwashing Machine Specialists

LEGEND FOR EEUC ELECTRICAL SCHEMATICS

*	COMPONENT LOCATED IN MAIN CONTROL CABINET			
1CR	*	DOOR SAFETY HOLD IN RELAY	NS	* NORMAL MODE BUTTON
2CR	*	PREWASH FILL SWITCH RELAY	NSR	* NORMAL PILOT RELAY
3CR	*	WASH FILL SWITCH RELAY	FU	* FUSE
4CR	*	RINSE FILL SWITCH RELAY	FRV	 FINAL RINSE VALVE
5CR	*	ECONO RINSE FILL SWITCH RELAY	FV	 FLUSHING VALVE
6CR	*	CONVEYOR SWITCH RELAY	GND	* GROUND
8CR	*	DRIVE RELAY	HLTS	 HIGH LIMIT THERMOSTAT
2M	*	PREWASH MOTOR CONTACTOR	HRU	 HEAT RECOVERY UNIT
2MOL	*	PREWASH MOTOR OVERLOAD	LC1/2/3	* LATCH CONTROL RELAYS
3M	*	WASH MOTOR CONTACTOR	LR1	* SPEED LATCH RELAY
3MOL	*	WASH MOTOR OVERLOAD	LR2	* RINSE LATCH RELAY
4M	*	RINSE MOTOR CONTACTOR	PCB	* POWER SWITCH/CIRCUIT BREAKER
4MOL	*	RINSE MOTOR OVERLOAD	PT	* PUMP TIMER
5M	*	ECONO RINSE MOTOR CONTACTOR	PW	 PREWASH
AM	*	AUTO MANUAL SWITCH	PWFV	 PREWASH TANK FILL VALVE
BC1/2/3	*	BOOSTER ELECTRIC HEAT CONTACTORS OR STEAM VALVE	PWFSW	 PREWASH TANK FLOAT SWITCH
BT	*	BLOWER TIMER	QRR	* QUAD RINSE RELAY
BTR	*	BLOWER TIMER RELAY	QRV	 QUAD RINSE VALVE
CR1/2	*	HOLD-IN RELAY	R	 RINSE
CVSW		CONVEYOR SWITCH	RC-	* RINSE TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE
CWTS		COLD WATER THERMOSTAT	RAR	* RINSE AID RELAY
CWV		COLD WATER VALVE	RFS	 RINSE TANK FLOAT SWITCH
DSS		DOOR SAFTEY SWITCH	RFV	 RINSE TANK FILL VALVE
EE		ELECTRIC EYE EMITTER	RSW	 REVERSING SWITCH (OPTIONAL)
EER	*	ELECTRIC EYE RELAY	SP	* STOP RELAY
ER		ELECTRIC EYE RECEIVER	ST	* START RELAY
EC		ECONO RINSE	T1/3	* CONTROL TRANSFORMER – LINE V:120V
EC1	*	ECONO RINSE TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE	T2	* CONTROL TRANSFORMER – 120V: 24V
EFS		ECONO RINSE TANK FLOAT SWITCH	RT	* FINAL RINSE TIMER
ERFV		ECONO RINSE TANK FILL VALVE	TS	 THERMOSTAT
ES	*	ECONOMY MODE BUTTON	VFD	 VARIABLE FREQUENCY DRIVE
ESR	*	ECONOMY PILOT RELAY	W	 WASH TANK
FS	*	FAST MODE BUTTON	WFS	 WASH TANK FLOAT SWITCH
FSR	*	FAST PILOT RELAY	WFV	 WASH TANK FILL VALVE
HR	*	HEAT RECOVERY POWER RELAY	WC-	* WASH TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE
HCP		HEAT CIRCULATING PUMP		

WIRING DIAGRAM FOR HEAT RECOVERY UNIT



THERMISTOR READER

CYCLE START TIMER

CYCLE START RELAY

FINAL RINSE VALVE

REHEAT TIMER

REHEAT TIMER RELAY

REHEAT RINSE VALVE

FAN MOTOR CONTROL

INITIAL FILL VALVE

702229 REV 0

**

LEGEND FOR EEUC ELECTRICAL SCHEMATICS

*	COMPONENT LOCATED IN MAIN CONTROL CABINET			
1CR	*	DOOR SAFETY HOLD IN RELAY	NS	* NORMAL MODE BUTTON
2CR	*	PREWASH FILL SWITCH RELAY	NSR	* NORMAL PILOT RELAY
3CR	*	WASH FILL SWITCH RELAY	FU	* FUSE
4CR	*	RINSE FILL SWITCH RELAY	FRV	 FINAL RINSE VALVE
5CR	*	ECONO RINSE FILL SWITCH RELAY	FV	 FLUSHING VALVE
6CR	*	CONVEYOR SWITCH RELAY	GND	* GROUND
8CR	*	DRIVE RELAY	HLTS	 HIGH LIMIT THERMOSTAT
2M	*	PREWASH MOTOR CONTACTOR	HRU	 HEAT RECOVERY UNIT
2MOL	*	PREWASH MOTOR OVERLOAD	LC1/2/3	* LATCH CONTROL RELAYS
3M	*	WASH MOTOR CONTACTOR	LR1	* SPEED LATCH RELAY
3MOL	*	WASH MOTOR OVERLOAD	LR2	* RINSE LATCH RELAY
4M	*	RINSE MOTOR CONTACTOR	PCB	* POWER SWITCH/CIRCUIT BREAKER
4MOL	*	RINSE MOTOR OVERLOAD	PT	* PUMP TIMER
5M	*	ECONO RINSE MOTOR CONTACTOR	PW	 PREWASH
AM	*	AUTO MANUAL SWITCH	PWFV	 PREWASH TANK FILL VALVE
BC1/2/3	*	BOOSTER ELECTRIC HEAT CONTACTORS OR STEAM VALVE	PWFSW	 PREWASH TANK FLOAT SWITCH
BT	*	BLOWER TIMER	QRR	* QUAD RINSE RELAY
BTR	*	BLOWER TIMER RELAY	QRV	 QUAD RINSE VALVE
CR1/2	*	HOLD-IN RELAY	R	 RINSE
CVSW		CONVEYOR SWITCH	RC-	* RINSE TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE
CWTS		COLD WATER THERMOSTAT	RAR	* RINSE AID RELAY
CWV		COLD WATER VALVE	RFS	 RINSE TANK FLOAT SWITCH
DSS		DOOR SAFTEY SWITCH	RFV	 RINSE TANK FILL VALVE
EE		ELECTRIC EYE EMITTER	RSW	 REVERSING SWITCH (OPTIONAL)
EER	*	ELECTRIC EYE RELAY	SP	* STOP RELAY
ER		ELECTRIC EYE RECEIVER	ST	* START RELAY
EC		ECONO RINSE	T1/3	* CONTROL TRANSFORMER – LINE V:120V
EC1	*	ECONO RINSE TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE	T2	* CONTROL TRANSFORMER – 120V: 24V
EFS		ECONO RINSE TANK FLOAT SWITCH	RT	* FINAL RINSE TIMER
ERFV		ECONO RINSE TANK FILL VALVE	TS	 THERMOSTAT
ES	*	ECONOMY MODE BUTTON	VFD	 VARIABLE FREQUENCY DRIVE
ESR	*	ECONOMY PILOT RELAY	W	 WASH TANK
FS	*	FAST MODE BUTTON	WFS	 WASH TANK FLOAT SWITCH
FSR	*	FAST PILOT RELAY	WfV	 WASH TANK FILL VALVE
HR	*	HEAT RECOVERY POWER RELAY	WC-	* WASH TANK ELECTRIC HEAT CONTACTOR OR STEAM VALVE
HCP		HEAT CIRCULATING PUMP		

WIRING DIAGRAM FOR HEAT RECOVERY UNIT



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