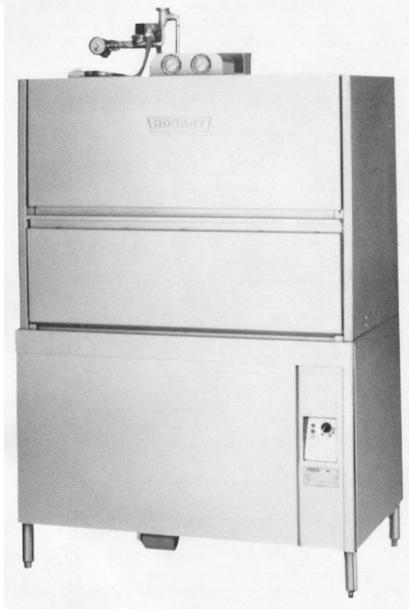




S E R V I C E



UW50

## UW50 UTENSIL WASHER CUSTOMER MAINTENANCE MANUAL

**SPECIFICATION SHEETS**  
**TOOLS**  
**INSTRUCTIONS MANUAL**  
**WIRING DIAGRAMS**  
**TROUBLESHOOTING**  
**HOBART SERVICE PARTS STORE**  
**PARTS CATALOG**

**HOBART**701 S Ridge Avenue, Troy, OH 45374  
1-888-4HOBART • www.hobartcorp.com**UW50  
UTENSIL/PAN WASHER****HOBART****STANDARD FEATURES**

- 2.1 gallons of water per rack
- 19 racks per hour
- Timed wash cycles for 2, 4 or 6 minutes
- Stainless steel tank, tank shelf, chamber, trim panels, frame and feet
- Solid state heat controls
- Front loading, split-door configuration
- Flat-bottomed, stainless steel frame rack, with one flat grid rack and two tray support racks
- Chamber accepts 16 full-sized sheet pans, or 140-quart mixing bowl
- Two upper and two lower revolving, debossed non-clogging stainless steel wash arms
- Two upper and lower revolving stainless steel rinse arms
- Heavy-duty door and door hinges
- Large, removable stainless steel scrap screen and scrap bucket
- 10 KW electric tank heat
- 15 KW electric booster heater
- Stainless steel front panel
- Integrated detergent connections
- Top-mounted dial thermometers
- Door actuated drain closer
- Heavy-duty 5 H.P. motor
- Door interlock switch
- Corrosion-resistant impeller
- Timed fill
- Positive low water protection
- Spray hose (standard on electric booster heater equipped models only)

**VOLTAGE**

- 208/60/3
- 240/60/3
- 480/60/3

**MODEL**

- UW50

**OPTIONS AT EXTRA COST**

- Vent fan control (option for electric heat machines only)
- Steam coil tank heat
- 15 KW electric booster heater (option for steam coil machines only)

**ACCESSORIES**

- Power vent fan kit
- Drain water tempering kit
- Rack insert for 30" trays
- Spray hose assembly (field installed for non-booster equipped machines only)
- 20" x 20" peg or combination racks

Specifications, Details and Dimensions on Inside and Back.



(Electric machines only)

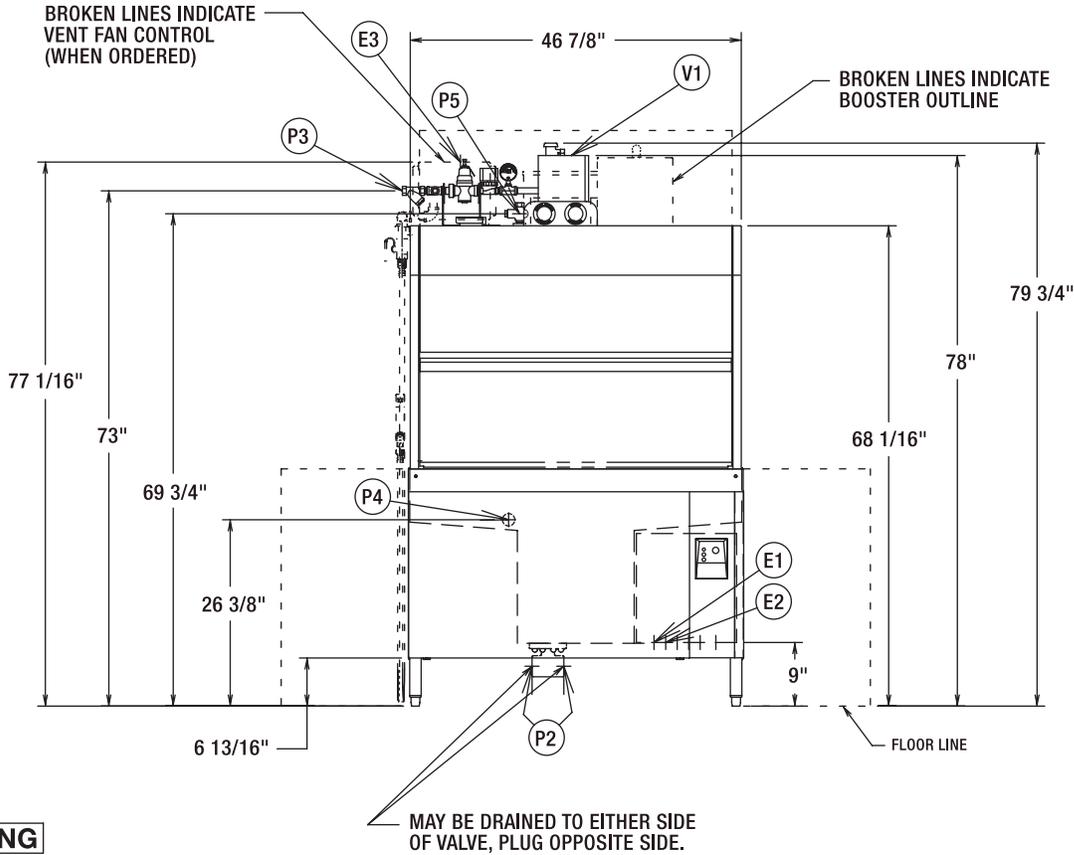
**UW50 UTENSIL/PAN WASHER**

# UW50 UTENSIL/PAN WASHER



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## DETAILS & DIMENSIONS – ELECTRIC



### ⚠ WARNING

Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

Plumbing connections must comply with applicable sanitary, safety and plumbing codes. Drain and fill line configurations vary, some methods are shown on this drawing.

### PLUMBING NOTES:

Water hammer arrestor (meeting ASSE-1010 STANDARD or equivalent) to be supplied (by others) in common water supply line at service connection. Recommended water hardness to be 3 grains or less for best results.

Recommended building flowing water pressure to the dishwasher is 20-25 PSI.

Pressure regulator furnished.

For convenience when cleaning, water tap should be installed near machine with heavy duty hose and squeeze valve.

### MISCELLANEOUS NOTES:

All dimensions taken from floor line may be increased by up to 1-1/8" with leg adjustment.

Net weight of machine: 678 lbs. w/booster  
Domestic shipping weight: 820 lbs. w/booster

Shipping dimensions:  
60" X 38" X 85" high.

Size of racks:  
40-7/8" X 22-7/8" X 4-1/8"

Drain lever located inside of tank.

### CONNECTION INFORMATION (\*AFF - ABOVE FINISHED FLOOR)

#### LEGEND

- E1 ELECTRICAL CONNECTION (INCLUDING ELECTRIC HEAT) 1-1/4" CONDUIT HOLE, 9" AFF.
- E2 ELECTRICAL CONNECTION-DETERGENT/RINSE AGENT FEEDERS: 1/2" CONDUIT HOLE; 9" AFF
- E3 ELECTRICAL CONNECTION-VENT FAN CONTROL (WHEN ORDERED); 3/4" CONDUIT HOLE; 77-1/16" AFF
- P2 DRAIN: 2" FPT, 5-5/8" AFF TWO CONNECTIONS.
- P3 COMMON WATER CONNECTION WITH BOOSTER 110°F MIN., 1/2" FPT, 73" AFF.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" HOLE, 26-3/8" AFF
- P5 RINSE AGENT FEEDER: 1/8" NPT, REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE; 69-3/4" AFF.
- V1 VENT EXIT: 7" X 11" X 10" HIGH TO ALLOW FOR EXPANSION OF AIR. (NEED NOT BE CONNECTED TO EXTERNAL VENT); IF REQUIRED, VENT HOOD TO PROVIDE 400 CFM EXHAUST.

SINGLE POINT ELECTRIC CONNECTION UW-50 WITH 10KW ELECTRIC HEAT AND 15KW ELECTRIC BOOSTER (CONTROLS AND SHP PUMP MOTOR)			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	93.9	100 <sup>⚠</sup>	100
240/60/3	86.3	100 <sup>⚠</sup>	100
480/60/3	43.8	50	50

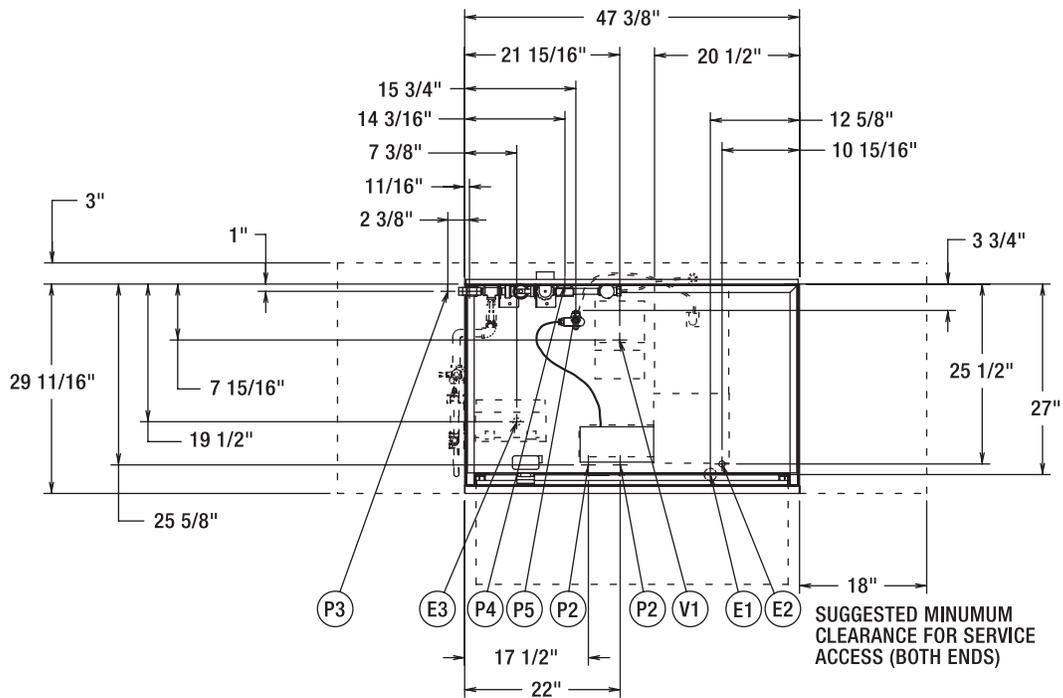
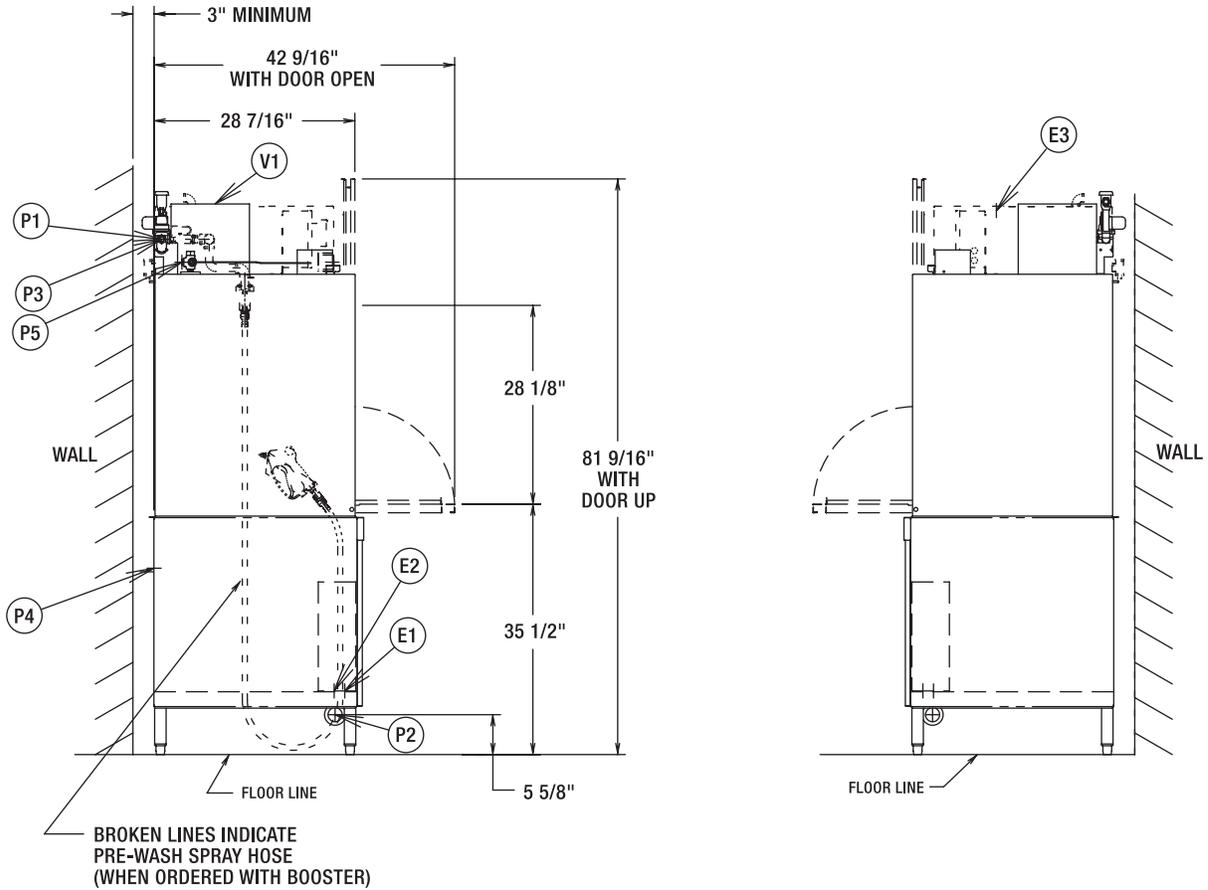
<sup>⚠</sup> FOR SUPPLY CONNECTION USE WIRES SUITABLE FOR AT LEAST 90°C OR EQUIVALENT.



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# UW50 UTENSIL/PAN WASHER

## DETAILS & DIMENSIONS – ELECTRIC



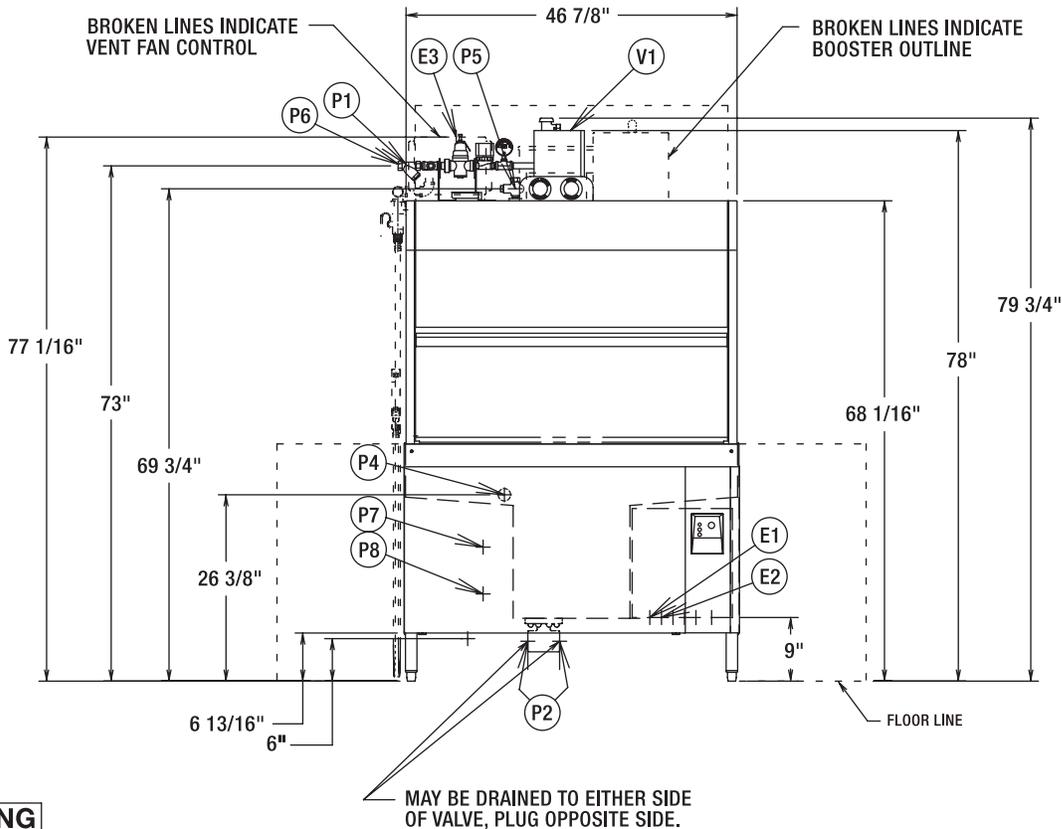
MODEL: UW-50  
ELECTRIC  
00-812969  
REV D

# UW50 UTENSIL/PAN WASHER



701 S Ridge Avenue, Troy, OH 45374  
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## DETAILS & DIMENSIONS – STEAM COIL



### WARNING

Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

Plumbing connections must comply with applicable sanitary, safety and plumbing codes. Drain and fill line configurations vary, some methods are shown on this drawing.

### PLUMBING NOTES:

Water hammer arrestor (meeting ASSE-1010 STANDARD or equivalent) to be supplied (by others) in common water supply line at service connection.

Recommended water hardness to be 3 grains or less for best results.

Recommended building flowing water pressure to the dishwasher is 20-25 PSI.

Pressure regulator furnished.

For convenience when cleaning, water tap should be installed near machine with heavy duty hose and squeeze valve.

MAY BE DRAINED TO EITHER SIDE OF VALVE, PLUG OPPOSITE SIDE.

### CONNECTION INFORMATION (\*AFF - ABOVE FINISHED FLOOR)

#### LEGEND

- E1 ELECTRICAL CONNECTION (MOTOR & CONTROLS): 1-1/4" CONDUIT HOLE, 9" AFF.
- E2 ELECTRIC CONNECTION-DETERGENT/RINSE AGENT FEEDERS: 1/2" CONDUIT HOLE; 9" AFF
- E3 ELECTRIC CONNECTION-VENT FAN CONTROL (WHEN ORDERED); 3/4" CONDUIT HOLE; 77-1/16" AFF
- P1 COMMON WATER CONNECTION: 180°F WATER MIN., 3/4" FPT, 73" AFF.
- P2 DRAIN: 2" FPT, 5-5/8" AFF TWO CONNECTIONS.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" HOLE, 26-3/8" AFF
- P5 RINSE AGENT FEEDER: 1/8" NPT, REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE; 69-3/4" AFF.
- P6 COMMON WATER CONNECTION WITH ELECTRIC BOOSTER (WHEN ORDERED); 110°F MIN., 3/4" FPT, 73" AFF.
- P7 STEAM COIL: 10 TO 25 PSI FLOWING, 50 PSI MAX., 3/4" FPT, 19" AFF.
- P8 CONDENSATE RETURN: 10 TO 50 PSI FLOWING, 3/4" FPT, 12-3/8" AFF, (BUCKET TYPE TRAP FURNISHED).
- V1 VENT EXIT: 7" X 11" X 10" HIGH TO ALLOW FOR EXPANSION OF AIR. (NEED NOT BE CONNECTED TO EXTERNAL VENT); IF REQUIRED, VENT HOOD TO PROVIDE 400 CFM EXHAUST.

### MISCELLANEOUS NOTES:

All dimensions taken from floor line may be increased by up to 1-1/8" with leg adjustment.

Net weight of machine: 640 lbs. w/o booster

Domestic shipping weight: 782 lbs. w/o booster

Net weight of machine: 678 lbs. w/booster

Domestic shipping weight: 820 lbs. w/booster

Shipping dimensions:  
60" X 38" X 85" high.

Size of racks:  
40-7/8" X 22-7/8" X 4-1/8"

Drain lever located inside of tank.

SINGLE POINT ELECTRIC CONNECTION UW-50 WITH STEAM HEAT (CONTROLS AND 5HP PUMP MOTOR)			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	20.3	25	25
240/60/3	17.6	25	25
480/60/3	9.2	15	15

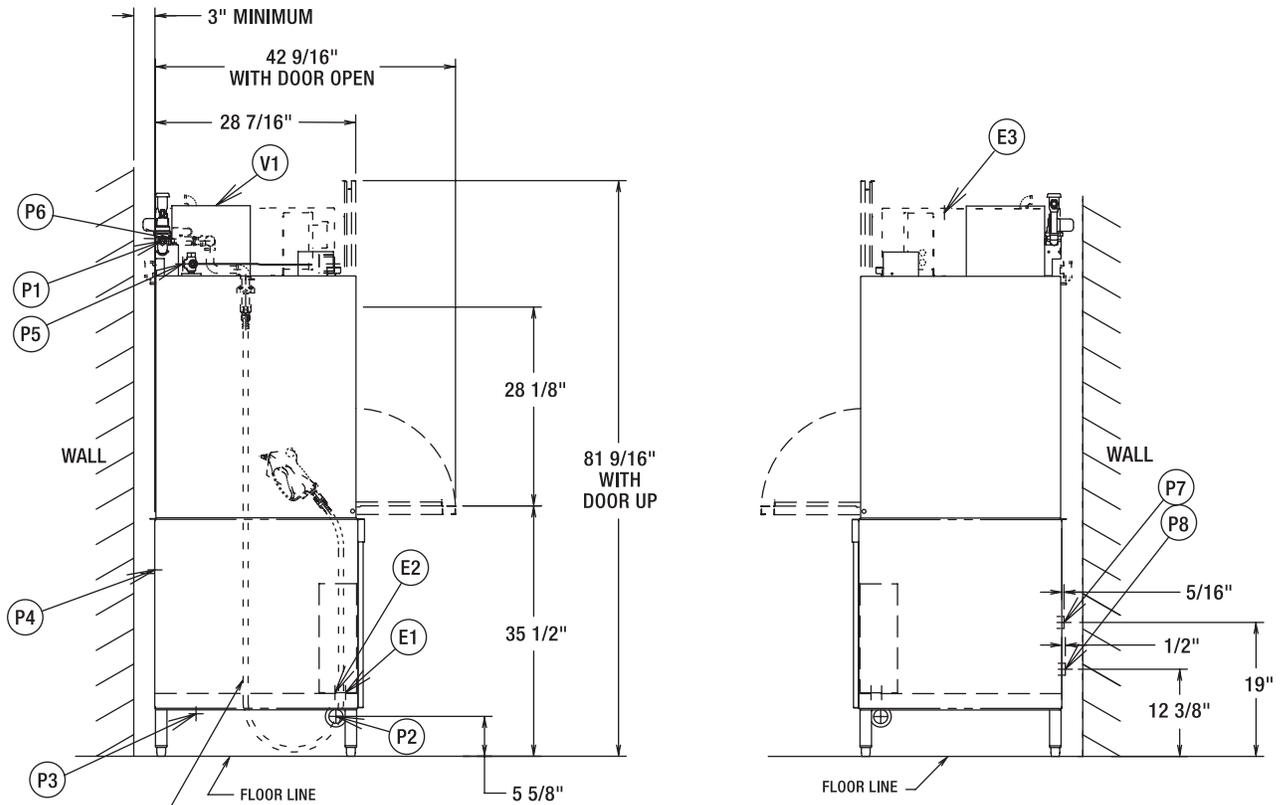
SINGLE POINT ELECTRIC CONNECTION UW-50 WITH STEAM HEAT AND 15KW ELECTRIC BOOSTER (CONTROLS AND 5HP PUMP MOTOR)			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	64.7	80	80
240/60/3	59.4	70	70
480/60/3	29.9	35	35



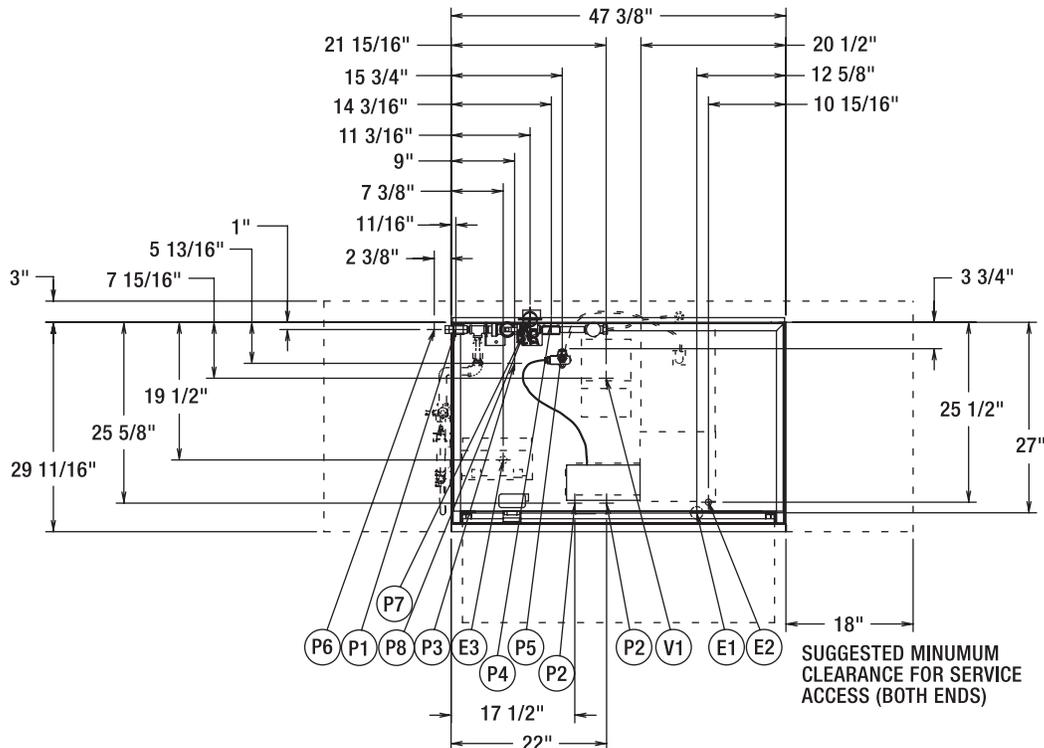
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# UW50 UTENSIL/PAN WASHER

## DETAILS & DIMENSIONS – STEAM COIL



BROKEN LINES INDICATE  
PRE-WASH SPRAY HOSE  
(WHEN ORDERED WITH BOOSTER)



SUGGESTED MINIMUM  
CLEARANCE FOR SERVICE  
ACCESS (BOTH ENDS)

MODEL: UW-50  
STEAM  
00-812969  
REV D

# UW50 UTENSIL/PAN WASHER



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## SPECIFICATIONS

**DESIGN:** Heavy-duty, fully automatic, front-loading utensil/pan washer with large split door system. Upper door section slides upward as the lower door section is pulled down. Stainless steel pull-out rack allows easy loading for large utensils and pans. Three variable wash cycles ensure thorough cleaning and sanitizing.

**CONSTRUCTION:** Stainless steel tank and hood, frame, legs and adjustable feet. Front enclosure panel standard.

**PUMP:** Cast iron pump integral with motor, Ni-Resist impeller, horizontally mounted. Pump capacity 343 gpm.

**MOTOR:** 5 H.P., available in 208/60/3, 240/60/3, or 480/60/3 configurations. Factory sealed lubrication, drip proof with sealed ball bearings. Thermal overload protection.

### RACKS PER HOUR:

Wash Cycle	Racks/Hr.
2 minute	19
4 minute	12
6 minute	9

**WASH CYCLE:** Complete automatic operation. Cycle may be interrupted any time by opening door. The selected cycle will restart from the beginning when door is closed again.

Upper and lower revolving stainless steel wash arms, with computer designed, debossed, anti-clog wash nozzles, direct high pressure wash flow to all soiled surfaces.

Large, sloping, perforated, removable stainless steel scrap screens direct food soils to a deep perforated stainless steel scrap basket.

Scrap basket and strainer easily removed.

**RINSE CYCLE:** 180°F final sanitizing rinse through two upper and two lower revolving stainless steel rinse arms. Rinse arms removable without tools.

### WATER USAGE PER RACK:

2.1 gallons per rack

**RACKING:** Standard rack assortment consists of one flat-bottomed frame rack, one flat grid insert rack, and two tray support insert racks. External rack dimensions are 40 $\frac{7}{8}$ " wide, 22 $\frac{7}{8}$ " deep, and 4 $\frac{1}{8}$ " high.

Standard flat-bottomed frame rack also accepts (2) 20" x 20" combination or peg racks per cycle.

**SPECIFICATIONS:** Listed by Underwriters Laboratories Inc., NSF International and CUL.

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.

# Tools

- Standard set of hand tools.
- VOM with AC current tester (any quality VOM with a sensitivity of at least 20,000 ohms per volt can be used).
- Gear puller.
- Temperature tester.
- Pump seal installation tools.

# INSTRUCTIONS

## *UW50 UTENSIL WASHER*

*MODEL*

*UW50*

*ML-27838*



*(Electric machines only)*



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TROY, OHIO 45374-0001

937 332-3000

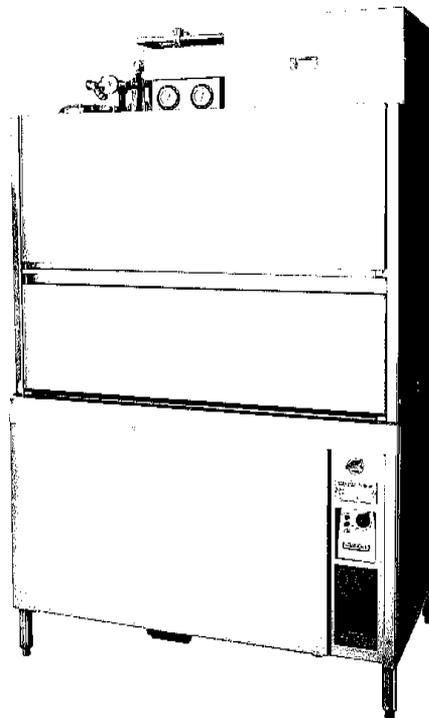
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FORM 18241 Rev. K (Jan 2016)

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**Model UW50 Utensil Washer With Booster**



# INSTALLATION, OPERATION AND CARE OF MODEL UW50 UTENSIL WASHER

## SAVE THESE INSTRUCTIONS

### GENERAL

The UW50 Utensil Washer is the answer to volume utensil washing problems in your kitchen, bakery or supermarket operation. The UW50 occupies a minimum amount of floor space (under 48" x 43" with door open) and does not require separate dishtables. The upper portion of the door raises, while the lower portion swings out to provide a drain platform. The rack can then be pulled out for easy loading and unloading.

The program selector lets you select a 2-, 4- or 6-minute cycle; each wash cycle is followed by a dwell and a 15-second rinse. The two upper and two lower wash arms provide thorough cleaning. Four rinse arms provide a sanitizing rinse at the end of each cycle. The 5-horsepower pump produces 343 gallons per minute.

The UW50 may be ordered with steam coil, electric or gas tank heat. A top-mounted electric booster is also available. When equipped with a top-mounted electric booster, a spray hose and nozzle is provided on the left side of the machine. On models without top-mounted electric booster, the spray hose and nozzle can be installed in the field as an accessory. All machines are equipped with a pressure reducing valve to be adjusted during installation.

Features include: sloping strainer system, self-closing drain with overflow, timed fill, wash and rinse thermometers and rack with inserts for trays. The flat rack can accommodate a 140-quart Hobart mixer bowl.

### INSTALLATION

#### UNPACKING

Immediately after unpacking the UW50, check for possible shipping damage. If the UW50 is found to be damaged, save the packaging material and contact the carrier within 5 days of delivery.

If the Utensil Washer is lifted with a lift truck, place the forks so the drain assembly under the tank is not damaged.

Prior to installation, test the electrical service to ensure that it agrees with the specifications on the data plate located below the controls (lower right front).

#### INSTALLATION CODES

Installation must be in accordance with state and local codes, with the national Fuel Code, ANSI Z223.1 (latest edition), if applicable, and the National Electrical Code ANSI/NFPA70 (latest edition). In Canada, the installation codes are: CAN/CGA B149.1, CAN/CGA B149.2 and CSA 22.1 (latest edition).

#### LOCATION

Set the machine in place after the final floor covering is installed. Make sure the machine is level before making any plumbing connections. Machines equipped with gas heat require a minimum 3" clearance from the rear of the flue to any combustible construction. Allow at least 3" at the rear and 18" at the sides of the machine as a suggested minimum for service access. Allow 13" in front of the machine for the door to lower and sufficient additional space for the operator to work.

**WARNING**

Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

Plumbing connections must comply with applicable sanitary, safety and plumbing codes. Drain and fill line configurations vary, some methods are shown on this drawing.

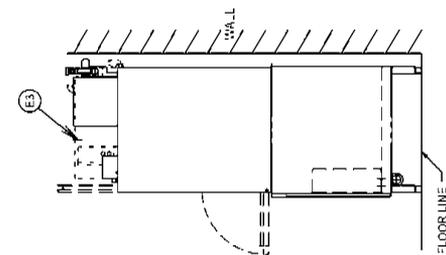
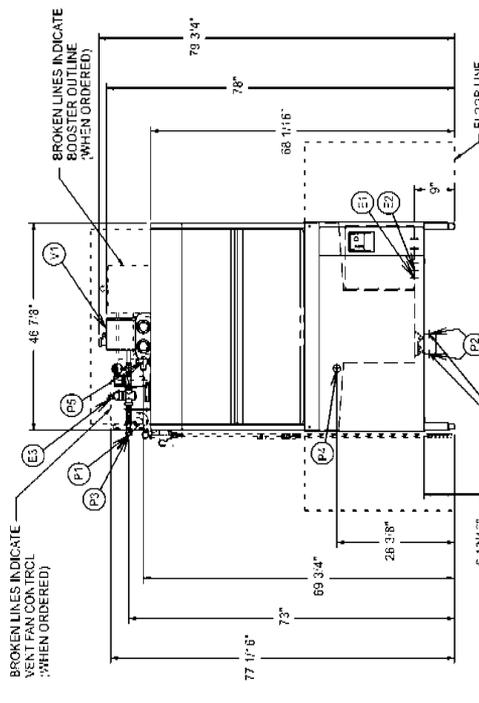
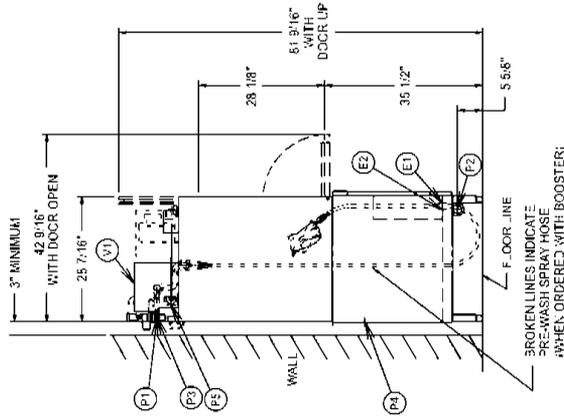
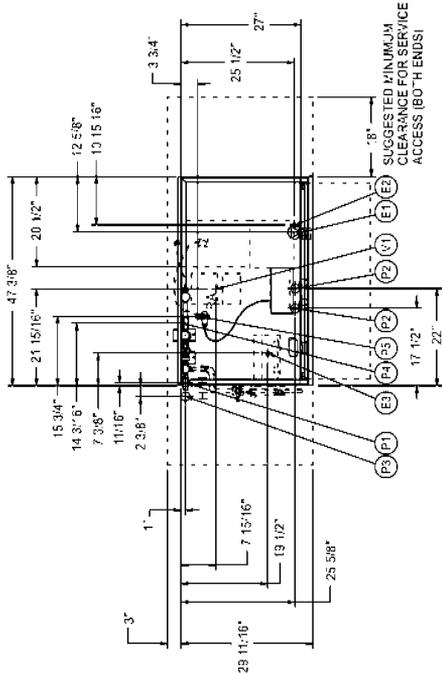
**PLUMBING NOTES:**

- Water hammer arrestor (meeting ASSE-1010 STANDARD or equivalent) to be supplied by others.)
- Common water supply line at service connection. Recommended water hardness to be 3 grains or less for best results.
- Recommended building flowing water pressure to the dishwasher is a minimum of 25 PSI.
- Pressure regulator turn shed.
- For convenience when cleaning, water tap should be installed near machine with heavy duty hose and squeeze valve.

**CONNECTION INFORMATION**  
(\*AFF - ABOVE FINISHED FLOOR)

**LEGEND**

- E1 ELECTRICAL CONNECTION (INCLUDING ELECTRIC HEAT) 1-1/4" CONDUIT HOLE; 3" AFF.
- E2 ELECTRICAL CONNECTION-DETERGENT/RINSE AGENT FEEDERS; 1/2" CONDUIT HOLE; 9" AFF
- E3 ELECTRICAL CONNECTION-VENT FAN CONTROL (WHEN ORDERED); 3/4" CONDUIT HOLE; 77-1/16" AFF
- P1 COMMON WATER CONNECTION; 180° F. WATER MIN. 1/2" FPT; 13" AFF.
- P2 SUPPLIED BY 3/4" LINE FITTED WITH 3/4" O 1/2" ADAPTER (SUPPLIED BY OTHERS).
- P3 DRAIN; 2" FPT; 5-5/8" AFF TWO CONNECTIONS.
- P4 COMMON WATER CONNECTION WITH BOOSTER (WHEN ORDERED); 1/10" F MIN., 1/2" FPT; 73" AFF. SUPPLIED BY 3/4" LINE FITTED WITH 3/4" TO 1/2" ADAPTER (SUPPLIED BY OTHERS).
- P5 DETERGENT PROBE SENSOR; REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" HOLE; 26-3/8" AFF
- P6 RINSE AGENT FEEDER; 1/8" NPT REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE; 69-3/4" AFF.
- V1 VENT EXIT; 7" X 11" X 10" HIGH TO ALLOW FOR EXPANSION OF AIR. (NEED NOT BE CONNECTED TO EXTERNAL VENT); IF REQUIRED, VENT HOOD TO PROVIDE 400 CFM EXHAUST.



**MISCELLANEOUS NOTES:**

- All dimensions taken from floor line may be increased by up to 1-1/8" with leg adjustment.
- Net weight of machine: 640 lbs. w/o booster
- Domestic shipping weight: 782 lbs. w/o booster
- Net weight of machine: 691 lbs. w/booster
- Domestic shipping weight: 853 lbs. w/booster
- Shipping dimensions: 60" X 38" X 85" hg.
- Size of racks: 40-7/8" X 22-7/8" X 4-1/8"
- Drain lever located inside of tank.

SINGLE POINT ELECTRIC CONNECTION (JW-50 WITH 10KW ELECTRIC HEAT (CONTROLS AND SHP PUMP MOTOR))			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/6/3	50.3	70	70
240/6/3	46.2	60	60
480/6/3	23.5	30	30

SINGLE POINT ELECTRIC CONNECTION (JW-50 WITH 15KW ELECTRIC HEAT (CONTROLS AND SHP PUMP MOTOR))			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/6/3	83.9	100	100
240/6/3	86.3	100	100
480/6/3	43.8	50	50

MODEL: UW-50  
ELECTRIC  
00-812969  
REV E

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
2. ALL DIMENSIONS ARE TO FLOOR LINE UNLESS OTHERWISE SPECIFIED.

**WARNING**

Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

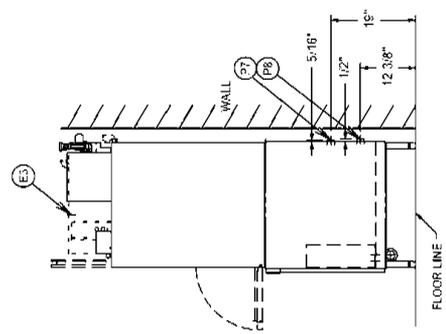
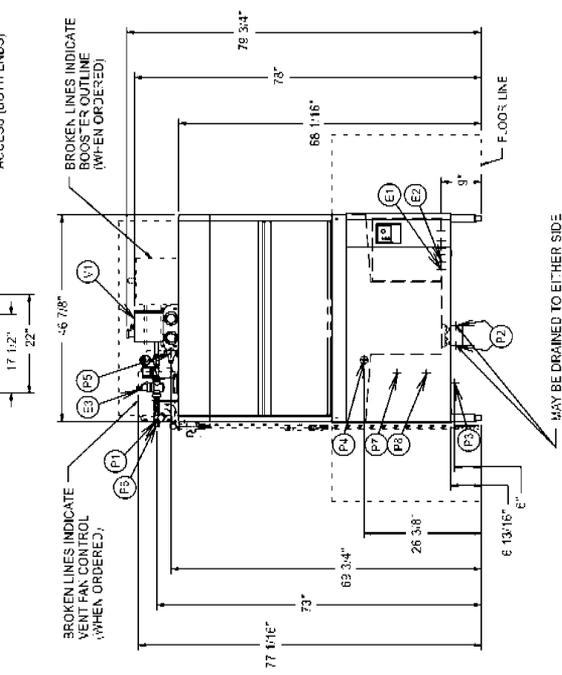
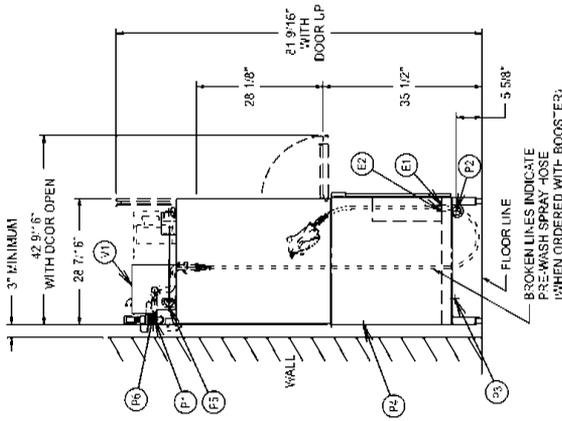
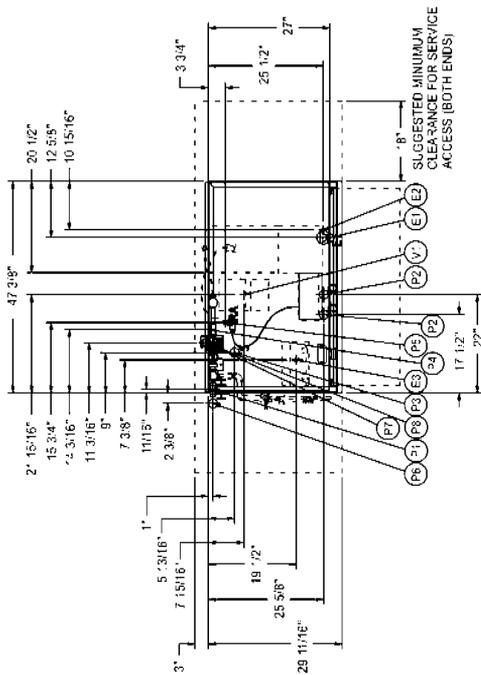
Plumbing connections must comply with applicable sanitary, safety and plumbing codes. Drain and fill line configurations vary, some methods are shown on this drawing.

**PLUMBING NOTES:**

- Water hammer arrestor (meeting ASSE-C105 STANDARD or equivalent) to be supplied (by others) in common water supply line at service connection.
- Recommended water hardness to be 3 grains or less for best results.
- Recommended building flowing water pressure to the dishwasher is a minimum of 20 PSI.
- Pressure regulator furnished.
- For convenience when cleaning, water tap should be installed near machine with heavy duty hose and squeeze valve.

**CONNECTION INFORMATION**  
(\*AFF - ABOVE FINISHED FLOOR)

- LEGEND:**
- E1 ELECTRICAL CONNECTION (MOTORS & CONTROLS); 1-1/4" CONDUIT HOLE, 9" A-F.
  - E2 ELECTRIC CONNECTION-DIET/AGENT/RINSE AGENT FEEDERS; 1/2" CONDUIT HOLE, 5" AFF.
  - E3 ELECTRIC CONNECTION-VENT FAN CONTROL (WHEN ORDERED) 3/4" CONDUIT HOLE; 77-1/2" A-F
  - P1 COMMON WATER CONNECTION; 180° F. WATER MIN. 1-2" FPT, 73" AFF.
  - P2 SUPPLIED BY 3/4" LINE FITTED WITH 3/4" TO 1/2" ADAPTER (SUPPLIED BY OTHERS).
  - P3 DRAIN; 2" FPT, 5-5/8" AFF TWO CONNECTIONS.
  - P4 STEAM INJECTOR; 10 TO 25 PSI FLOWING 50 PSI MAX.; 3/4" FPT, 6" AFF.
  - P5 DETERGENT PROBE SENSOR; REMOVE CAP AND STILL ASSEMBLY TO ACCESS HOLE; 28-3/8" AFF.
  - P6 RINSE AGENT FEEDER; 1/8" NPT REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE; 89-3/4" AFF.
  - P8 COMMON WATER CONNECTION WITH ELECTRIC BOOSTER (WHEN ORDERED); 110° F. MIN.; 1/2" FPT, 73" AFF. ADAPTER SUPPLIED BY OTHERS.
  - P7 STEAM COIL; 10 TO 25 PSI FLOWING; 50 PSI MAX.; 3/4" FPT, 10" AFF.
  - P8 CONDENSATE RETURN; 1/2 TO 50 PSI FLOWING; 3/4" FPT, 12-3/8" AFF. (BUCKET TYPE TRAP FURNISHED).
  - V1 VENT EXIT; 7" X 11" X 10" HIGH TO ALLOW FOR EXPANSION OF AIR. (NEED NOT BE CONNECTED TO EXTERNAL VENT); IF REQUIRED, VENT HOOD TO PROVIDE 400 CFM EXHAUST.



**MISCELLANEOUS NOTES:**

- All dimensions taken from floor line may be increased by up to 1-1/8" with leg adjustment.
- Net weight of machine: 640 lbs. w/o booster
- Net weight of machine: 691 lbs. w/booster
- Domestic shipping weight: 833 lbs. w/booster
- Shipping dimensions: 40" X 35" X 85" h.g.h.
- Size of racks: 40-7/8" X 22-7/8" X 4-1/8"
- Drain line: located inside of tank.

SINGLE POINT ELECTRIC CONNECTION UW-50 WITH 15KW STEAM HEAT (CONTROLS AND SHIP PUMP MOTOR)			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CAPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	20.3	25	25
240/60/3	17.6	25	25
480/60/3	9.2	15	15

SINGLE POINT ELECTRIC CONNECTION UW-50 WITH STEAM HEAT AND 15KW ELECTRIC BOOSTER (CONTROL SAND SHIP PUMP MOTOR)			
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CAPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	64.7	50	80
240/60/3	56.4	70	73
480/60/3	29.9	35	35

UW50 with Steam Coil Tank Heat with or without 15KW Electric Booster – Installation Diagram: D-812969 sheet 2

MODEL: UW-50  
SYSTEM  
00-812969  
REV E

**WARNING**

Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

Plumbing connections must comply with applicable sanitary, safety and plumbing codes. Drain and fill line configurations vary, some methods are shown on this drawing.

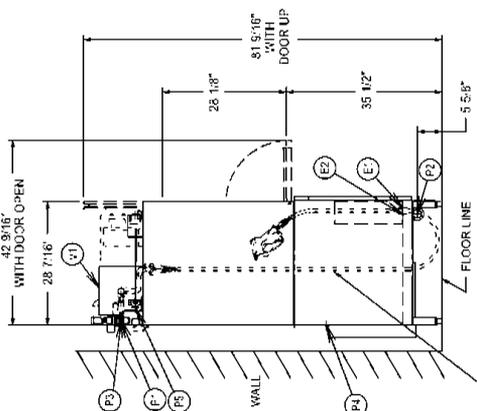
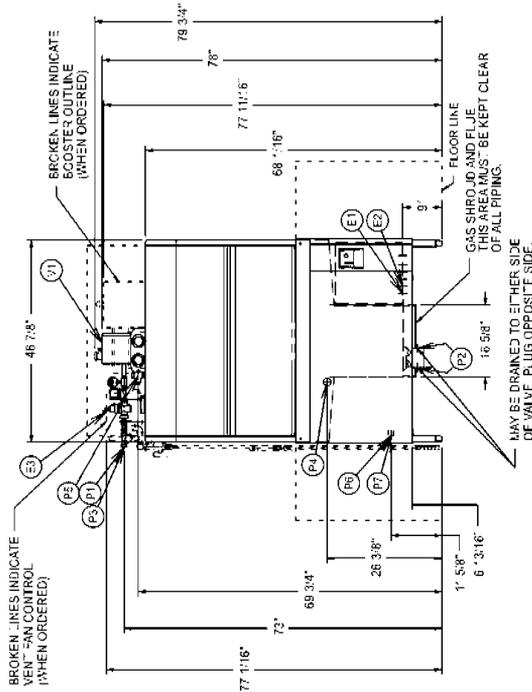
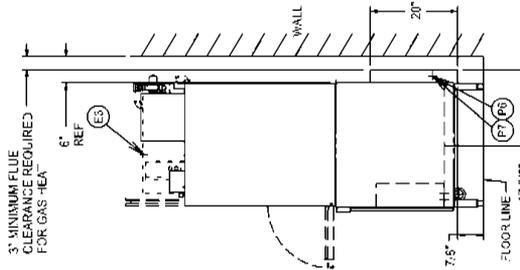
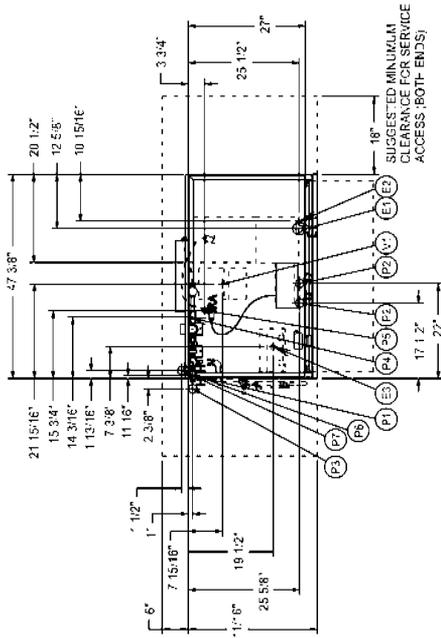
**GAS HEATED DISHWASHERS**

For natural gas, pressure to the burner (customer connection) should not exceed 7" W.C. For liquefied petroleum gas, pressure to the burner (customer connection) should not exceed 11" W.C. If gas pressure is higher than 7" or 11" W.C., a pressure reducing valve must be installed (by others) in the gas line to the dishwasher. Gas heat BTU input - 47,000 Btu/hr

When gas tank heat is specified, gas exhaust venting must be installed according to local code. Do not connect flue to power vent.

**CONNECTION INFORMATION**  
(\*AFF - ABOVE FINISHED FLOOR)

- LEGEND**
- E1 ELECTRICAL CONNECTION (MOTORS & CONTROLS): 1/4" COND. JIT HOLE, 3" AFF.
  - E2 ELECTRIC CONNECTION-DETERGENT/RINSE AGENT FEEDERS: 1/2" COND. HOLE, 8" AFF
  - E3 ELECTRIC CONNECTION-VENT FAN CONTROL (WHEN ORDERED): 3/8" COND. HOLE, 77-11/16" AFF
  - P1 COMMON WATER CONNECTION: 18" F. WATER M.N. SUPPLIED BY 3/4" LINE FITTED WITH 3/4" TO 1/2" ADAPTER (SUPPLIED BY OTHERS).
  - P2 DRAIN: 2" FPT, 5/8" AFF TWO CONNECTIONS.
  - P3 COMMON WATER CONNECTION WITH ELECTRIC BOOSTER (WHEN ORDERED): 1 1/2" MIN. 1/2" FPT, 73" AFF. SUPPLIED BY 3/4" LINE FITTED WITH 3/4" TO 1/2" ADAPTER (SUPPLIED BY OTHERS).
  - P4 DETERGENT PROBE SENSOR, REMOVE CAP AND ST. JC ASSEMBLY TO ACCESS 7/8" HOLE, 26-3/8" AFF.
  - P5 RINSE AGENT FEEDER 1/8" NPT, REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE 89-3/4" AFF.
  - P6 1/2" CONNECTION VENT.
  - P7 GAS CONNECTION - L.P.G.: 1/2" FPT, 115/8" AFF.
  - V1 VENT EXIT: 7" X 11" X 10" HIGH TO A LOW FOR EXPANSION OF AIR. NEED NOT BE CONNECTED TO EXTERNAL VENT, IF REQUIRED, VENT HOOD TO PROVIDE 400 CFM EX-AJST.



**PLUMBING NOTES:**

Water: common water supply line at service connection. Recommended water hardness to be 3 grains or less for best results. Recommended building flow ring water pressure to the dishwasher is a minimum of 25 PSI. Pressures: top-labor furnished. For convenience, a hot water tap should be installed near machine with heavy duty hose and squeeze valve. Drain lever located inside of tank.

**MISCELLANEOUS NOTES:**

All dimensions taken from floor line may be increased by 1/2" to 1 1/8" with leg adjustment. Net weight of machine: 640 lbs. w/o booster. Domestic shipping weight: 782 lbs. w/o booster. Net weight of machine: 691 lbs. w/o booster. Domestic shipping weight: 835 lbs. w/o booster. Shipping dimensions: 60" X 38" X 35" high.

SINGLE POINT ELECTRIC CONNECTION (CONTROL AND SHF PUMP FACTOR):

ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
209-50-5	21.4	30	30
240-60-3	14.6	25	25
480-60-3	4.6	15	15

SINGLE POINT ELECTRIC CONNECTION (CONTROL AND SHF PUMP MOTOR):

ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
238-60-3	64.7	80	80
240-60-3	59.4	70	70
480-60-3	24.9	35	35

MODE: UW-50  
GAS  
00-812969  
REV E

UW50 with Gas Tank Heat with or without 15KW Electric Booster – Installation Diagram: D-812969 sheet 3  
Propane not factory built. Field conversion kit required.

## PLUMBING CONNECTIONS

**⚠ WARNING** Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

### Water Supply Connection

Water must be proper hardness. Recommended water hardness is 3 grain or less. Higher hardness may cause excessive formation of lime scale. Chlorides must not exceed 50 ppm.

A water hammer arrestor (meeting ASSE-1010 Standard) should be provided (by others) in the water supply line ahead of its connection to the line strainer. The water supply line should be a  $\frac{3}{4}$ " pipe fitted with a  $\frac{3}{4}$ " to  $\frac{1}{2}$ " NPT reducer (supplied by others).

A flowing pressure of 15 to 25 psig is required at the pressure gauge, provided. The pressure gauge may be connected to a petcock, if equipped, and should remain closed, except when the flowing pressure is being checked. A pressure-reducing valve with relief bypass is furnished with all machines.

**NOTICE** The water-pressure regulator must have a relief bypass. Failure to use the proper type of pressure regulator may result in damage to the unit.

The minimum water supply temperature per cycle time required to maintain 180°F final rinse temperature is shown at the right:

Cycle	Minimum Water Supply Temperatures	
	With Optional Booster Heater	Without Booster Heater
2 Minute	110°F	180°F
4 Minute	110°F	180°F
6 Minute	80°F	180°F

### Drain Connection

A proper drain should be connected to the 2" internal threads at the "T" fitting underneath the machine. The drain can be connected on either the left or right side of the "T" fitting. The right side of the "T" fitting is plugged at the factory, allowing the drain to be connected on the left side. If it is more convenient to connect the drain on the right side, remove the plug from the right side of the "T" fitting, reinstall it on the left side and connect the drain to the right side.

### GAS CONNECTION (WHEN SPECIFIED)

Check the gas data plate attached to the dishwasher or tag attached to the gas burner tubing for type of gas to be used.

Connect the gas supply to the machine. Field conversion required for propane gas.

The burner is not adjustable. If line pressure is above 7" W.C. (natural gas) or 11" W.C. (propane gas), an additional regulator valve (not supplied) must be installed in the supply line.

The burner is ignited by solid state electronic circuitry; there is no pilot light. Gas flow is regulated by the temperature control circuit via a blower and centrifugal switch system.

### STEAM CONNECTION (WHEN SPECIFIED)

Machines equipped with steam coil tank heat have the steam supply connection ( $\frac{3}{4}$ " female pipe thread) located at the rear of the wash tank, 19" above the floor, and a condensate return connection ( $\frac{3}{4}$ " female pipe thread), located at the rear of the wash tank, 12 $\frac{3}{8}$ " above the floor (a bucket-type trap is furnished). Flowing steam pressure should be 15 to 25 psig (50 psig maximum). A manually operated steam control valve (supplied by others) should be installed at a convenient location ahead of the steam supply connection.

## VENTING REQUIRED WITH GAS HEAT (OPTIONAL WITH STEAM OR ELECTRIC HEAT)

The Hobart UW50 Utensil Washer, equipped for gas tank heat, is not provided with a flue collar and is not intended to have the flue directly connected to a ventilation system. However, the products of combustion must be vented to the outside air. A vent hood over the entire utensil washer (Fig. 1) can be employed to vent both the moist air from the wash chamber and the flue gases from the gas tank heat. The volume of flue exhaust required for venting moist air and flue gases using a single vent hood over the entire utensil washer must be calculated using the formulas on the next page.

If a powered means of exhaust is used, an electrical interlock must be provided to allow the flow of gas to the utensil washer burner only when the exhaust system is in operation.

For additional information, refer to the National Fuel Gas Code, ANSI Z223.1, NFPA 54 (latest editions). In all cases, local codes will prevail.

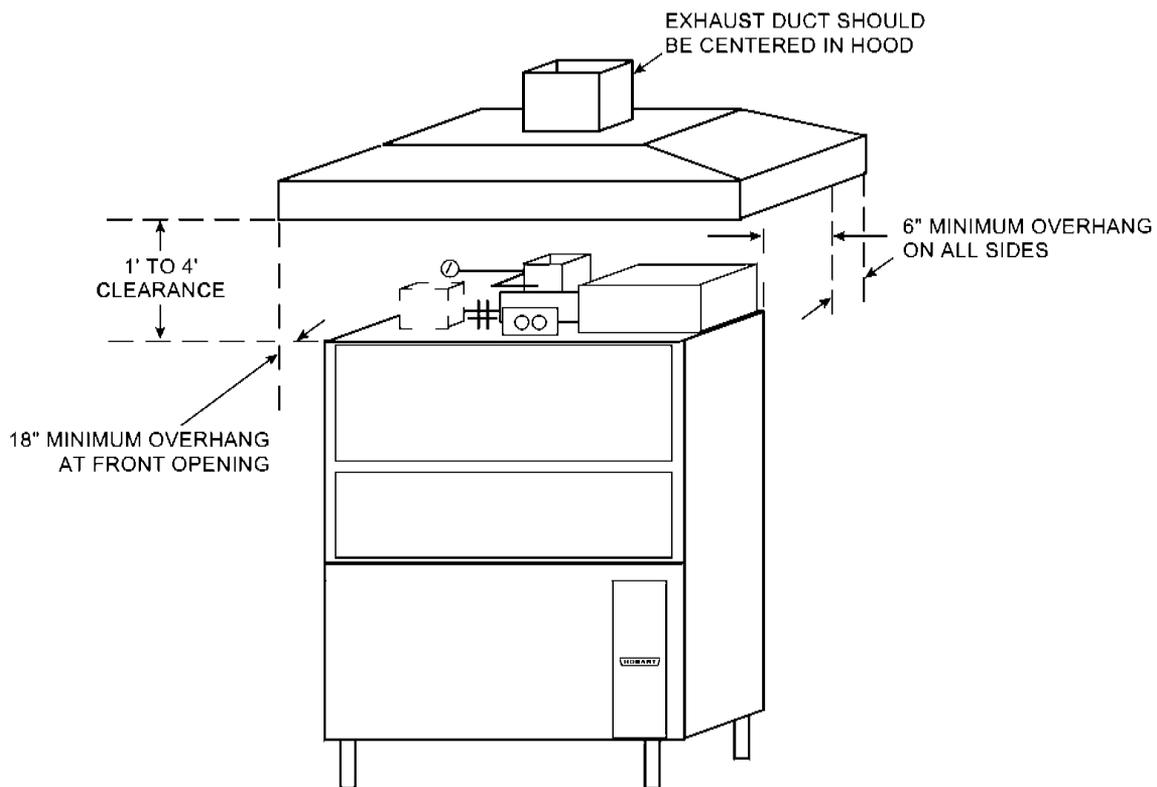


Fig. 1

Type I or Type II canopy hoods are recommended. A factory-built commercial exhaust hood may be listed as conforming to Underwriters Laboratory's standard 710, titled *Exhaust Hoods for Commercial Cooking Equipment*. Hoods must be installed according to the manufacturer's instructions. Make-up air must be provided so that the exhaust flow rate results in a positive building pressure in the room where the unit is located (more outside air than exhaust air). Factory-built hoods not tested to UL standard 710 and custom-built hoods must comply with the following specifications: Stainless steel should have a minimum thickness of 0.037 in. (0.94 mm) [No. 20 Gauge] or copper sheet weighing at least 24 ounces per square foot (7 Kg/m<sup>2</sup>); the hood must be secured in place by noncombustible supports and must meet the RATE OF EXHAUST FLOW CALCULATIONS on the next page.

## RATE OF EXHAUST FLOW CALCULATIONS (FIG. 2)

Based on the International Mechanical Code (latest edition).

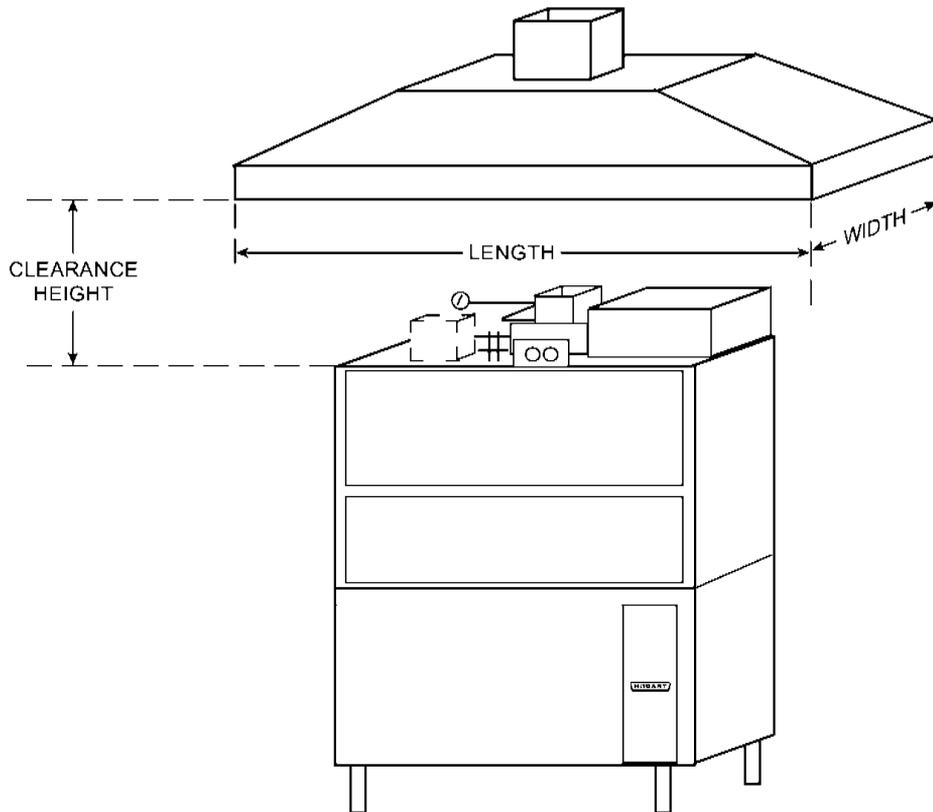


Fig. 2

### Canopy size and location

The inside lower edge of canopy-type Type I and II commercial hoods shall overhang or extend a horizontal distance of not less than 6 inches (152 mm) beyond the edge of the top horizontal surface of the appliance on all open sides. The vertical distance between the front lower lip of the hood and such surface shall not exceed 4 feet (1219 mm).

The **RATE** of air flow required for a vent hood is a minimum of 100 CFM per linear foot of hood length.

## DETERGENT FEEDER (OPTIONAL BY OTHERS)

If installing a detergent feeder (by others), remove cap to expose  $\frac{7}{8}$ " diameter hole at rear of machine.

## RINSE AGENT FEEDER (OPTIONAL BY OTHERS)

If a rinse agent feeder (by others) is being installed, remove the  $\frac{1}{8}$ " NPT pipe plug to access the tapped hole in the incoming water line below the vacuum breaker on top of the machine.

## VENT EXIT

A vent exit (7" x 11" x 10") is provided in the top of the machine to allow for expansion of air. It should not be directly connected to an external vent.

## VENT FAN CONTROL (OPTIONAL); POWER VENT (OPTIONAL)

The Vent Fan Control option (factory- or field-installed) provides switching for a vent fan (by others). The vent hood comes on when the UW50 is on and goes off when the UW50 is off. This is appropriate for a hood over a UW50 with gas tank heat. The Vent Fan Control can be rewired by your Hobart service technician to control the Power Vent option (not available on UW50 with gas tank heat). Power Vent is used on UW50 with steam or electric tank heat to exhaust moist air from the chamber after the rinse cycle is finished. Power Vent operates for 45 seconds. Power Vent (field installed only) extends upward  $13\frac{1}{8}$ " above the Vent Exit ( $22\frac{7}{8}$ " above the top of the wash chamber) and terminates in a round duct connection for a  $10\frac{1}{4}$ " O.D. duct.

## ELECTRICAL CONNECTION

**⚠ WARNING** Electrical and grounding connection must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

**⚠ WARNING** Disconnect electrical power supply and follow lockout / tagout procedures.

Connect incoming power to the control box in accordance with the wiring diagram located inside the control box and the electrical data chart. The front trim rail and the front panel must be removed to access the control box.

ELECTRICAL DATA												
Volts/Hz/Ph	10KW Electric Heat (Single Point Connections)		10KW Electric Heat With 15KW Electric Booster (Single Point Connections)		Steam Coil Tank Heat (Single Point Connections)		Steam Coil Tank Heat With 15KW Electric Booster (Single Point Connections)		Gas Tank Heat (Single Point Connections)		Gas Tank Heat With 15KW Electric Booster (Single Point Connections)	
	Rated Amps	Circuit Size* (Amps)	Rated Amps	Circuit Size* (Amps)	Rated Amps	Circuit Size* (Amps)	Rated Amps	Circuit Size* (Amps)	Rated Amps	Circuit Size* (Amps)	Rated Amps	Circuit Size* (Amps)
208/60/3	50.3	70	93.9	**100	20.3	25	64.7	80	21.4	30	64.7	80
240/60/3	46.2	60	86.3	**100	17.6	25	59.4	70	18.6	25	59.4	70
480/60/3	23.5	30	43.8	50	9.2	15	29.9	35	9.6	15	29.9	35

\* Minimum Circuit Size / Maximum Protective Device (Amps) compiled in accordance with the National Electrical Code (NFPA 70), latest edition.

\*\* For supply connection, use wires suitable for at least 90°F or equivalent.

## Rotation of Pump Motor

Before using the machine, check the pump motor rotation to be sure it is rotating in the right direction. From the front of the machine, the motor should rotate counterclockwise. Looking from the rear of the machine, the correct rotation is clockwise. Inspection is easiest from the right side using a flashlight and mirror to check the motor fan in front. Be aware that the mirror will reverse the perceived direction.

If the pump motor is rotating in the wrong direction, follow this procedure.

**⚠ WARNING** Disconnect electrical power supply and follow lockout / tagout procedures.

Reverse any two of the three incoming line wires (not the ground wire). Reconnect and recheck rotation of pump motor.

# OPERATION

## CONTROLS (FIG. 3)

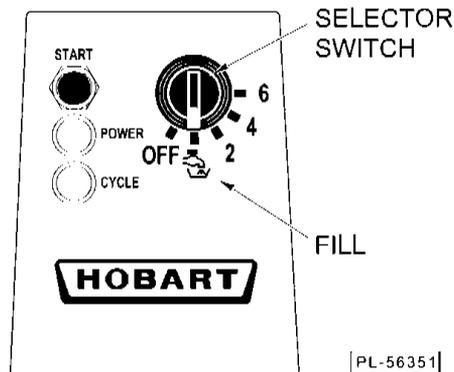


Fig. 3

### SELECTOR SWITCH

- OFF** Electric power to machine is off. POWER and CYCLE lights are off.
- FILL** Timed fill requires about 3 minutes. Be sure Drain Lever (Fig. 4) is closed. Press the START button to begin a timed fill.

### SELECT WASH CYCLE and press START.

- 2** A 2-minute wash cycle is followed by a 15-second low water rinse.
  - 4** A 4-minute wash cycle is followed by a 15-second low water rinse.
  - 6** A 6-minute wash cycle is followed by a 15-second low water rinse.
- All rinse cycles are followed by a 10 second pause, the white cycle light extinguishes after the pause indicating clean ware is ready for removal.

- START button** Begins a timed fill or starts a wash cycle.
- POWER light (green)** Indicates the machine has power, and the Selector Switch is not off.
- CYCLE light (white)** Indicates a timed fill or wash cycle is in process.

**NOTE:** Opening the door during cycles will cause cycle to start over at the beginning.

### DRAIN LEVER (Fig. 4)

Drain lever is located inside the wash chamber (middle front with door open). Lower the lever to close the drain before beginning a timed fill. Rotate lever upward to open the drain after turning the machine off at the end of the day.

### DIAL THERMOMETERS (not shown)

Thermometers indicate the Wash Tank Temperature and the Rinse Temperature. Thermometers are located on top of the wash chamber and are clearly visible when the doors are shut. Minimum Wash Tank Temperature is 150°F. Minimum Rinse Temperature is 180°F.

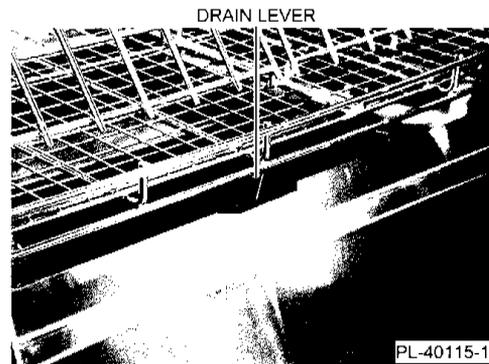


Fig. 4

## GENERAL OPERATING INSTRUCTIONS

Keep the utensil washer clean to provide best results. Do not allow foreign objects to enter the unit, especially metallic contaminants.

Do not wash aluminum utensils in the utensil washer. The caustic detergent and high water temperature will cause aluminum oxide formation (black). Copper utensils may require polishing to remove oxide formation after exposure to utensil washer cleaning for a period of time. Stainless steel utensils should clean quickly and easily if the food soil is not baked on.

It may be necessary to scrub or prewash some hard-to-remove substances which may not come clean in the utensil washer with even a 6-minute washing. For stubborn food soil, a plastic scraper, plastic abrasive pad, nylon bristle brush or sponge with abrasive surface (Scotch Brite) may be used before washing in the utensil washer. Never use steel wool on ware to be loaded into the utensil washer. Use only products formulated to be safe on stainless steel. Rinse items thoroughly after scrubbing to remove metallic debris.

## CLEANING THE UTENSIL WASHER

**⚠ WARNING** Disconnect electrical power supply and follow lockout / tagout procedures.

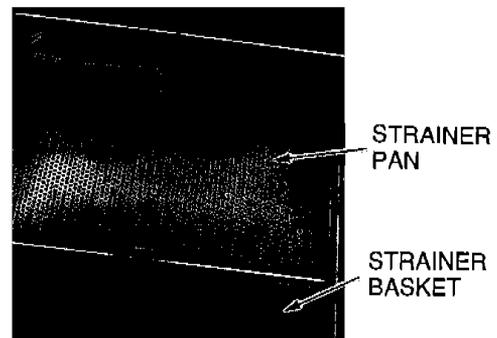
The utensil washer must be thoroughly cleaned at the end of each working shift or at least daily. Never use steel wool to clean utensil washer surfaces.

Turn the Selector Switch OFF.

Open the doors and lift up on the drain lever to drain the tank.

Remove the strainer pan and strainer basket (Fig. 5), and empty into a waste disposer or garbage container. Wash and rinse strainer pan and strainer basket thoroughly. Do not bang strainer pan or basket on tables to remove food soil.

After the tank has drained completely, lower the overflow tube to close the drain. Reconnect the electrical power to the machine.



PL-21868

Fig. 5

Turn the Selector Switch to FILL and press the Start button. The machine will fill and rinse any debris into the tank.

After Fill is complete, turn the Selector Switch OFF, open the doors and lift up on the drain lever to drain the machine.

**⚠ WARNING** Disconnect electrical power supply and follow lockout / tagout procedures.

Remove the overflow cover and the overflow tube. Wash and rinse the overflow tube inside and out.

Thoroughly cleanse and flush the interior of the machine. Remove remaining soil with a soft cloth or brush and a mild cleanser. Rinse again. Do not allow food soil to accumulate in the tank bottom.

Reinstall the overflow tube.

Carefully reinstall the strainer pan, strainer basket and drain cover. The opening at the corner of the strainer pan allows the capillary tube to go into the tank.

**NOTICE** On machines with the capillary tube in the tank, use care when assembling strainer pan so the capillary tube is not damaged during assembly.

Make sure that the wash and rinse arms rotate freely and are free of any obstructions. If any obstructions are present, remove the wash and rinse arms. Clean the wash and rinse arms under running water in a sink.

The wash and rinse arms are easily removed for cleaning.

To remove upper, low water rinse arm and wash arm (Fig. 6):

- Unscrew the rinse arm by loosening the knurled ring at top of rinse arm.
- Remove both Rinse and Wash arms at the same time, being careful not to drop these arms.
- Reverse the process to replace.

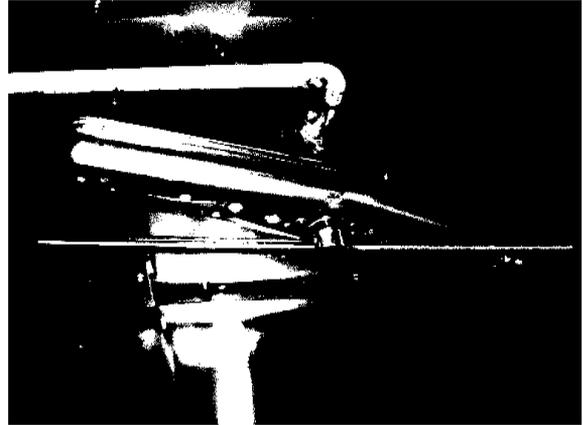


Fig. 6  
(Low water rinse, upper assembly)

To remove lower, low water rinse arm and wash arm (Fig.7):

- Unscrew the rinse arm by loosening the knurled ring at top of rinse arm.
- Remove both Rinse and Wash arms at the same time, being careful not to drop these arms.
- Reverse the process to replace.

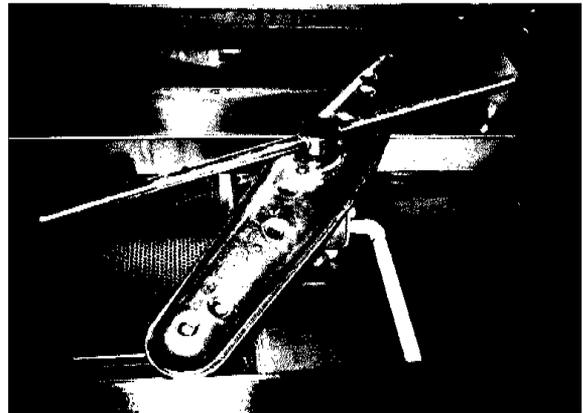


Fig. 7  
(Low water rinse, lower assembly)

Leave the doors open to allow the interior to dry and air out.

## **DOS AND DON'TS FOR YOUR NEW HOBART UTENSIL WASHER**

**DO** ensure proper water hardness (3 grain or less). Total Dissolved Solids (TDS) must be 50 ppm or greater. Chlorides must not exceed 50 ppm.

**DO** pre-scrub dishes thoroughly.

**DO** use only detergents recommended by your chemical professional.

**DO** thoroughly cleanse, rinse and dry (leave door open) the machine at the end of the day.

**DO** closely follow your chemical professional's prescribed deliming schedule.

**DO** use only products formulated to be safe on stainless steel.

**DO NOT** use detergents formulated for residential dishwashers.

**DO NOT** allow food soil to accumulate on the tank bottom.

**DO NOT** exceed chemical manufacturer's recommended concentrations for detergent, sanitizer, rinse aid or lime scale remover.

**DO NOT** use steel wool to clean ware or warewasher surface.

**DO NOT** allow foreign objects to enter the unit, especially metallic contaminants.

**NOTE:** Failure to follow use, care and maintenance instructions may void your Hobart warewasher warranty.

# MAINTENANCE

**⚠ WARNING** Disconnect electrical power supply and follow lockout / tagout procedures.

## MOTOR

The motor has permanently sealed bearings and requires no lubrication.

## WASH AND RINSE ARMS

All wash arms and rinse arms should turn freely and continue turning for a few seconds after being whirled by hand. To check, **DISCONNECT ELECTRICAL POWER SUPPLY**, rotate arms and remove any obstructions causing improper operation. Refer to CLEANING THE UTENSIL WASHER on pages 12 and 13.

If the slanted strainer pan and strainer basket are not properly in place, obstructions (such as food particles or toothpicks) may clog the wash arm nozzles.

## DELIMING

**⚠ WARNING** Deliming solution must not come in contact with bleach or rinse solution containing bleach. Mixing may cause hazardous gas to form. This entire procedure must be followed step-by-step for safe and satisfactory results.

The dishwasher should be delimed on a regular basis as required. How often depends on the mineral content of the water. Deliming should be done when you can see clear signs of lime deposits (a white chalky substance) on the inside walls and on the wash and rinse arms.

Inspect the machine interior for lime deposits. If deliming is necessary, a deliming agent (available from your detergent representative) should be used for best results.

Delime as follows:

1. Lift drain lever and drain tank.
2. Remove rack from machine.
3. Close door.
4. Fill machine.
5. Open door and add deliming agent (carefully follow supplier's instructions).

**NOTE:** The sump holds 27 gallons of water.

6. Close door and allow machine to complete a 6-minute cycle.
7. Open door and lift drain lever to drain tank.
8. Inspect interior of machine for lime deposits. Repeat Steps 3 through 7 if necessary.

**NOTICE** Do not allow deliming agent to remain in the machine longer than recommended by the deliming agent manufacturer. After deliming, run the machine through two 6-minute cycles with no utensils in order to rinse and flush machine interior.

# TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE
Utensils spotted or not clean	<p>Overloaded rack.</p> <p>Low water level.</p> <p>Water conditions:</p> <ul style="list-style-type: none"> <li>— Incorrect rinse water temperature. Refer to WATER SUPPLY CONNECTION, page 7.</li> <li>— Excessive water hardness may indicate that a water softener is needed.</li> <li>— Incorrect detergent type or concentration for water conditions.</li> <li>— Incorrect rinse additive for water conditions.</li> </ul> <p>Inadequate rinse.</p> <ul style="list-style-type: none"> <li>— Dirty line strainer causing reduced water flow. Turn off water supply. Remove strainer cap. Withdraw and clean screen. Reassemble.</li> <li>— Low water pressure (supply line).</li> <li>— Excessive mineral deposits throughout wash and rinse system. Deliming may be necessary.</li> </ul> <p>Check water level in tank. The machine won't clean well if there isn't enough water for the pump to maintain adequate wash pressure.</p> <ul style="list-style-type: none"> <li>— Drain overflow tube may not be seated.</li> <li>— Worn or torn O-Ring may cause overflow tube not to seat.</li> </ul> <p>Loss of water pressure due to pump obstruction.</p> <ul style="list-style-type: none"> <li>— DISCONNECT ELECTRIC POWER SUPPLY. Drain tank and check for obstruction at the strainer, basket and pump intake.</li> </ul> <p>Insufficient detergent dispensing.</p> <ul style="list-style-type: none"> <li>— Check supply or detergent supplier.</li> </ul> <p>Excessive mineral deposits throughout wash and rinse system.</p> <ul style="list-style-type: none"> <li>— Deliming may be necessary.</li> <li>— Excessive water hardness may indicate that a water softener is needed.</li> </ul> <p>Utensil washer was not cleaned properly. Refer to CLEANING THE UTENSIL WASHER, pages 12 and 13.</p> <p>Wash arm blocked with debris. Refer to WASH AND RINSE ARMS, page 14.</p>

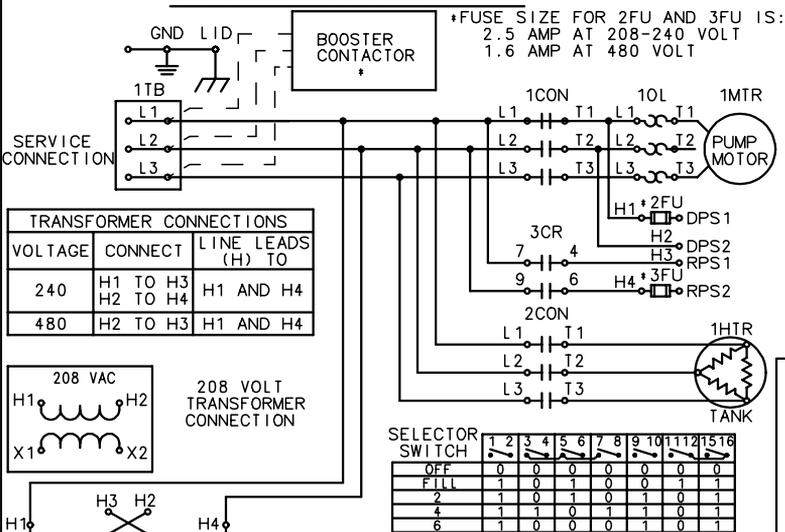
SYMPTOM	POSSIBLE CAUSE
Machine won't operate.	Fuse blown or circuit breaker tripped. Selector Switch is turned OFF. Check water level in tank. — Drain overflow tube may not be seated. — Worn or torn O-Ring may cause overflow tube not to seat.
Leaking valves.	Solenoid valves. — Contact Service. Vacuum breaker. — Foreign material preventing proper valve operation. A critical period is soon after installation when pipe compound or metal shavings may lodge at the valve seat. DISCONNECT ELECTRICAL POWER SUPPLY. Shut off water supply line. Unscrew and lift bonnet from valve body. Clean valve and reassemble.
No wash tank heat.	The low water detector will shut off heat if water level is too low. — Check water level. The overflow tube may not be seated. Fuse blown or circuit breaker tripped (if equipped with electric heat). Manual steam valve not open completely (if equipped with steam heat). Overtemperature protector tripped (gas or electric tank heat only). — Contact Service.
No fill or slow fill.	Dirty line strainer causing reduced water flow. — Turn off water supply. Remove strainer cap. Withdraw and clean screen. Reassemble.

## SERVICE

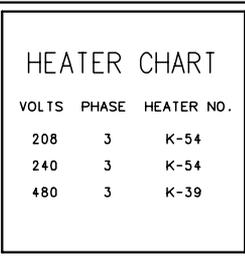
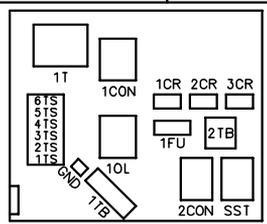
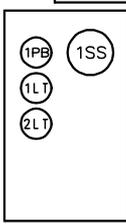
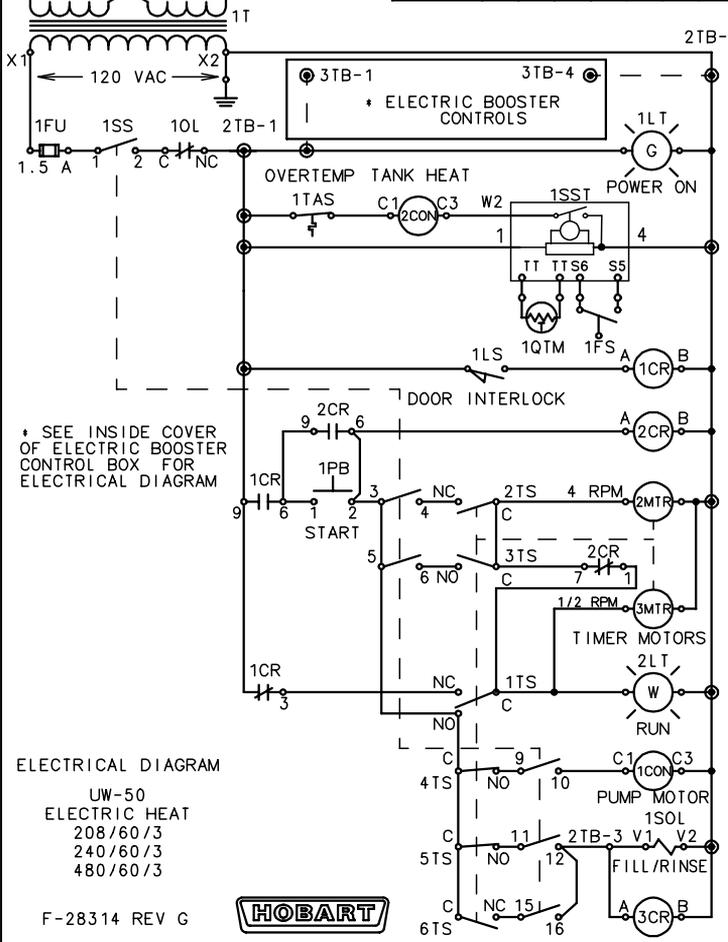
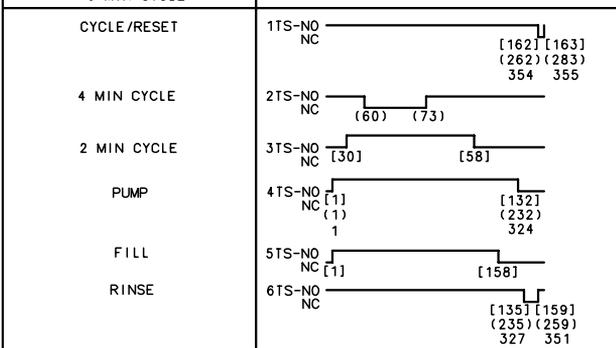
In the event a gas orifice fitting shall be adjusted or replaced, have it serviced by qualified personnel.

Contact your Hobart service office for any repairs or adjustments needed on this equipment. Long-term service contracts are available on this and other Hobart products.

**WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.**



**ALL TIMES STATED IN SECONDS**  
 [2 MIN & FILL CYCLE]  
 (4 MIN CYCLE)  
 6 MIN CYCLE





# Troubleshooting

Symptom	Possible Causes
Washer will not start.	<ol style="list-style-type: none"> <li>1. Check incoming line voltage.</li> <li>2. Door interlock not operating.</li> <li>3. Check fuse 1FU.</li> <li>4. 1CR inoperative.</li> <li>5. Selector switch 1SS inoperative.</li> <li>6. Start switch 1PB inoperative.</li> <li>7. Transformer 1T inoperative.</li> <li>8. Timer inoperative.</li> </ol>
Washer will not fill.	<ol style="list-style-type: none"> <li>1. Check water supply.</li> <li>2. Drain valve opened.</li> <li>3. Fill/Rinse valve 1SOL inoperative.</li> <li>4. 1CR inoperative.</li> <li>5. Selector switch 1SS inoperative.</li> <li>6. 2CR inoperative.</li> <li>7. Transformer 1T inoperative.</li> <li>8. Check fuse 1FU.</li> <li>9. Door interlock not operating.</li> <li>10. Timer inoperative.</li> </ol>
Fill will not shut off.	<ol style="list-style-type: none"> <li>1. Timer inoperative.</li> <li>2. Fill valve 1SOL stuck open</li> </ol>
No tank heat.	<ol style="list-style-type: none"> <li>1. Check fuse 1FU.</li> <li>2. Check line voltage.</li> <li>3. Overtemp thermostat tripped. (Manual Reset).</li> <li>4. Solid State Thermostat 1SST defective.</li> <li>5. Float switch 1FS defective.</li> <li>6. Temperature probe 1QTM defective.</li> <li>7. High limit thermostat defective. (electric heat only).</li> <li>8. Heater contactor 2CON defective. (electric heat only).</li> <li>9. Steam injector solenoid defective. (steam heat only).</li> <li>10. Check water supply.</li> </ol>
Washer not cleaning properly.	<ol style="list-style-type: none"> <li>1. Tank heat off or too low.</li> <li>2. Sprayers on wash arms clogged.</li> <li>3. Final rinse temperature too low.</li> <li>4. Motor running backwards.</li> <li>5. Not dispensing chemicals.</li> <li>6. Cycle time inadequate for type of soils.               <ol style="list-style-type: none"> <li>A. May require presoaking.</li> </ol> </li> </ol>
Pump pressure reading wrong.	<ol style="list-style-type: none"> <li>1. Pressure too high.               <ol style="list-style-type: none"> <li>A. Obstruction in outlet.</li> </ol> </li> <li>2. Pressure too low.               <ol style="list-style-type: none"> <li>A. Obstruction in inlet.</li> <li>B. Pump impeller defective.</li> </ol> </li> </ol>

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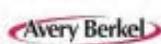
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# CATALOG OF REPLACEMENT PARTS

## UW50 UTENSIL WASHER

ML-27838





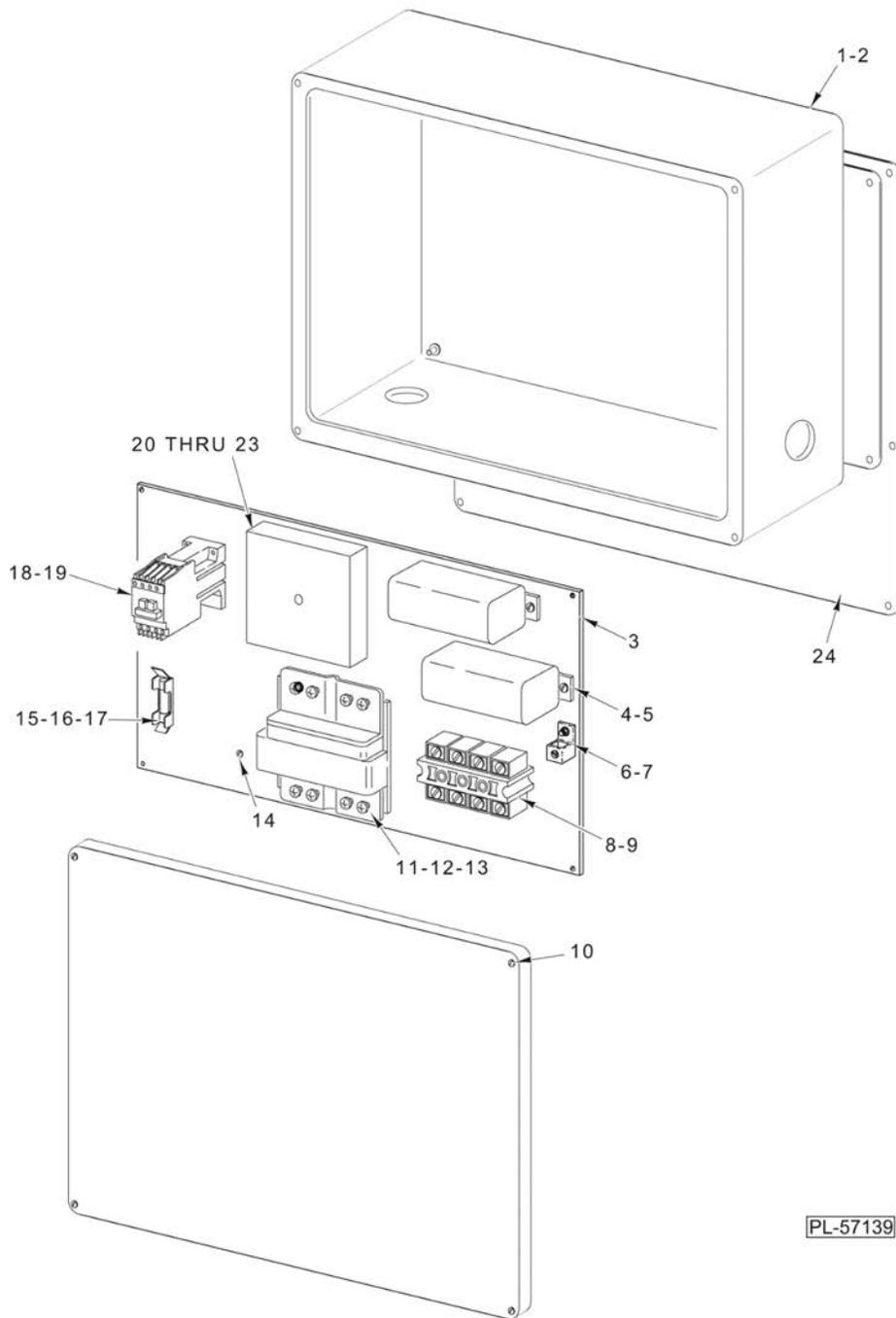
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## NOTES



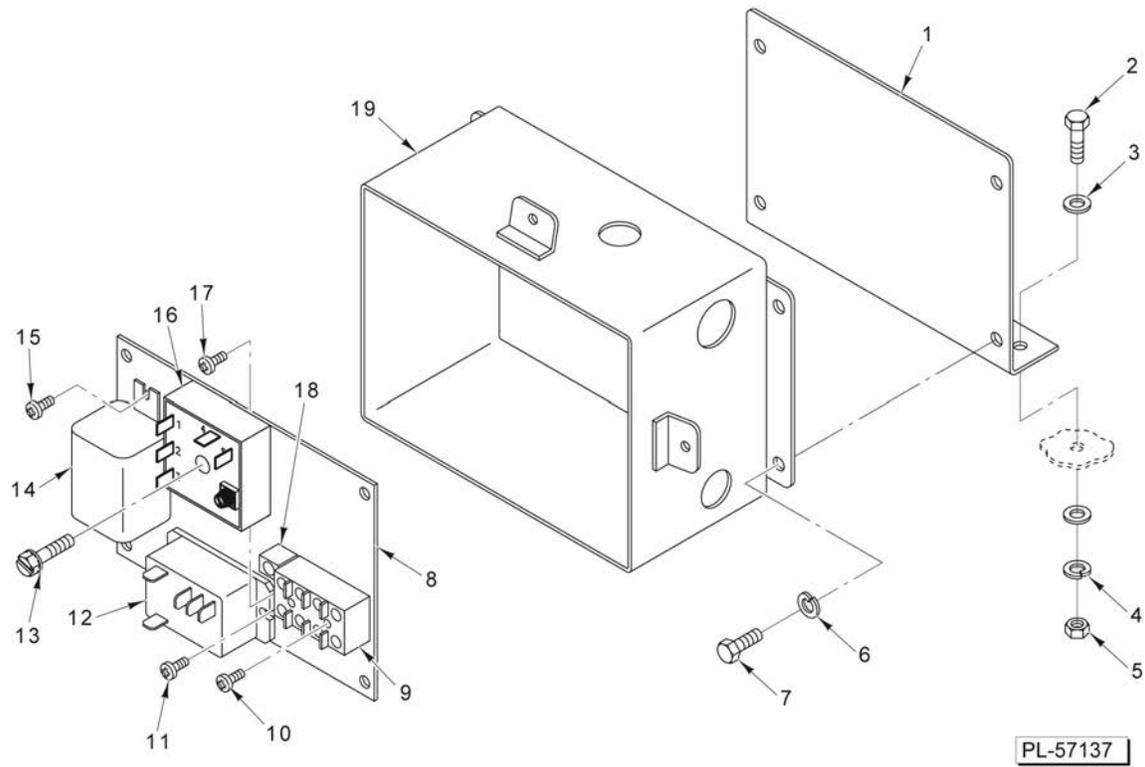
PL-57139

**VENT FAN CONTROL  
(PREVIOUS CONSTRUCTION)**

**VENT FAN CONTROL  
(PREVIOUS CONSTRUCTION)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57139			
*1	00-473429	Box - Electrical (Incls. Lid).....	1
**2	00-748206-00001	Box - Electrical (Incls. Lid).....	1
3	00-473427	Plate - Base.....	1
4	00-087714-020-1	Relay 24 VAC (DPDT).....	2
5	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	4
6	00-118544-00001	Lug - Solderless.....	1
7	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	1
8	00-814301-00004	Block - Terminal.....	1
9	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	2
10	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	1
11	00-294500-00028	Transformer (50 VA) (208/240/380/480/60/3) (200/380/415/50/3).....	1
12	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	4
13	WL-007-12	Lockwasher #10 External Shakeproof.....	4
14	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	1
15	00-294436-00003	Block - Fuse.....	1
16	FE-022-28	Fuse (0.5 Amp.) (250 V.).....	1
17	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	1
18	00-087713-086-1	Contact - Single Pole.....	1
19	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	2
20	00-087714-00036	Relay Time Delay (Variable).....	1
21	SD-036-13	Self-Tapping Screw 1/4-20 x 1-1/4 Hex Washer Hd., Type T.....	1
22	WL-007-15	Lockwasher 1/4 External Shakeproof.....	1
23	00-437070-00001	Plug-On Module.....	1
24	00-473437	Bracket - Control Panel.....	1

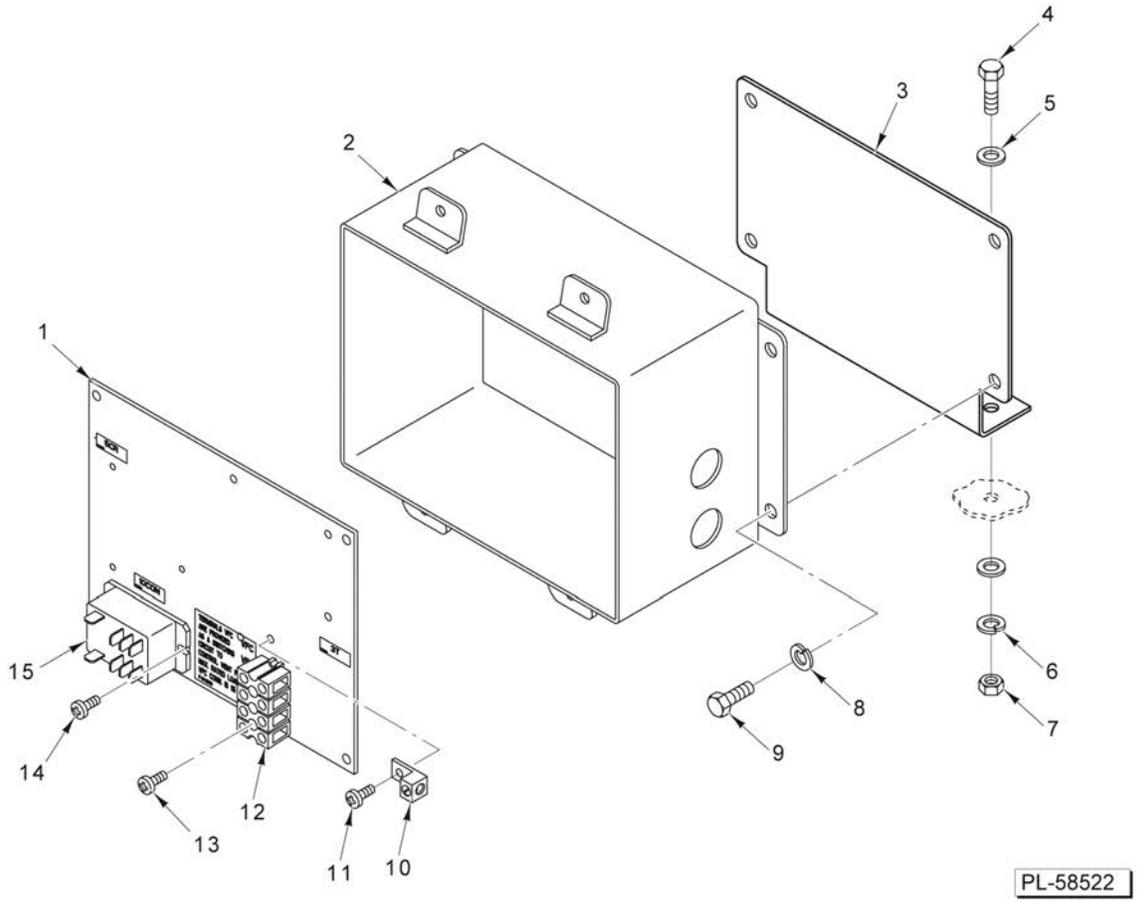
\* Used on Machines Built Before 2/4/98  
 \*\* Used on Machines Built After 2/4/98



**VENT FAN CONTROL  
(PREVIOUS CONSTRUCTION)**

**VENT FAN CONTROL  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57137	PART NO.	NAME OF PART	AMT.
1	00-328697	Bracket - Terminal Box Mounting.....	1
2	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	2
3	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	4
4	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
5	NS-015-11	Nut 5/16-18 Hex (SST).....	2
6	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
7	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	4
8	00-892088	Plate - Base.....	1
9	00-814301-00004	Block - Terminal.....	1
10	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	2
11	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	2
12	00-087714-046-1	Relay (2-Pole) (30 Amp.).....	1
13	SD-036-13	Self-Tapping Screw 1/4-20 x 1-1/4 Hex Washer Hd., Type T.....	1
14	00-087714-020-2	Relay (3.P.D.T.).....	1
15	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	2
16	00-814123	Relay - Single-Shot Time Delay (With Built-In Potentiometer).....	1
17	SD-034-59	Self-Tapping Screw 10-32 x 3/8 Phil. Pan Hd., Type T.....	1
18	00-118544-00001	Lug - Solderless.....	1
19	00-274949-00004	Box - Terminal (Incls. Lid).....	1



**VENT FAN CONTROL  
(CURRENT CONSTRUCTION)**

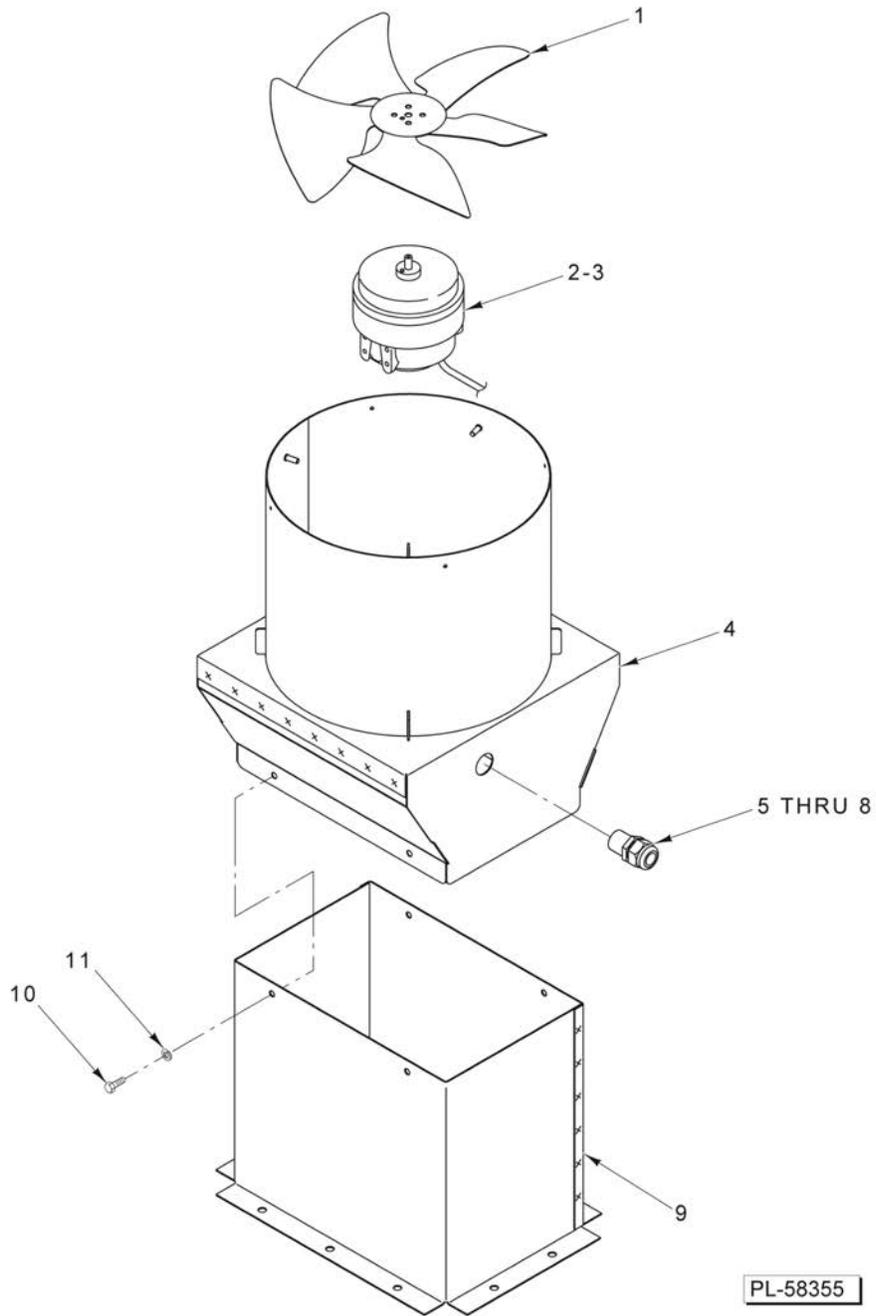
**VENT FAN CONTROL  
(CURRENT CONSTRUCTION)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-58522			
1	00-918280	Plate - Base.....	1
2	00-918282	Box - Terminal.....	1
3	00-918281	Bracket - Terminal Mounting Box.....	1
4	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	2
5	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	4
6	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
7	NS-015-11	Nut 5/16-18 Hex (SST).....	2
8	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
9	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	4
10	00-118544-00001	Lug - Solderless.....	1
11	SD-034-59	Self-Tapping Screw 10-32 x 3/8 Phil. Pan Hd., Type T.....	1
12	00-814301-00004	Block - Terminal.....	1
13	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	2
14	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	2
15	00-087714-042-1	Relay (2-Pole) (120 VAC) (30 Amp.).....	1



**POWERED VENT FAN CONTROL**

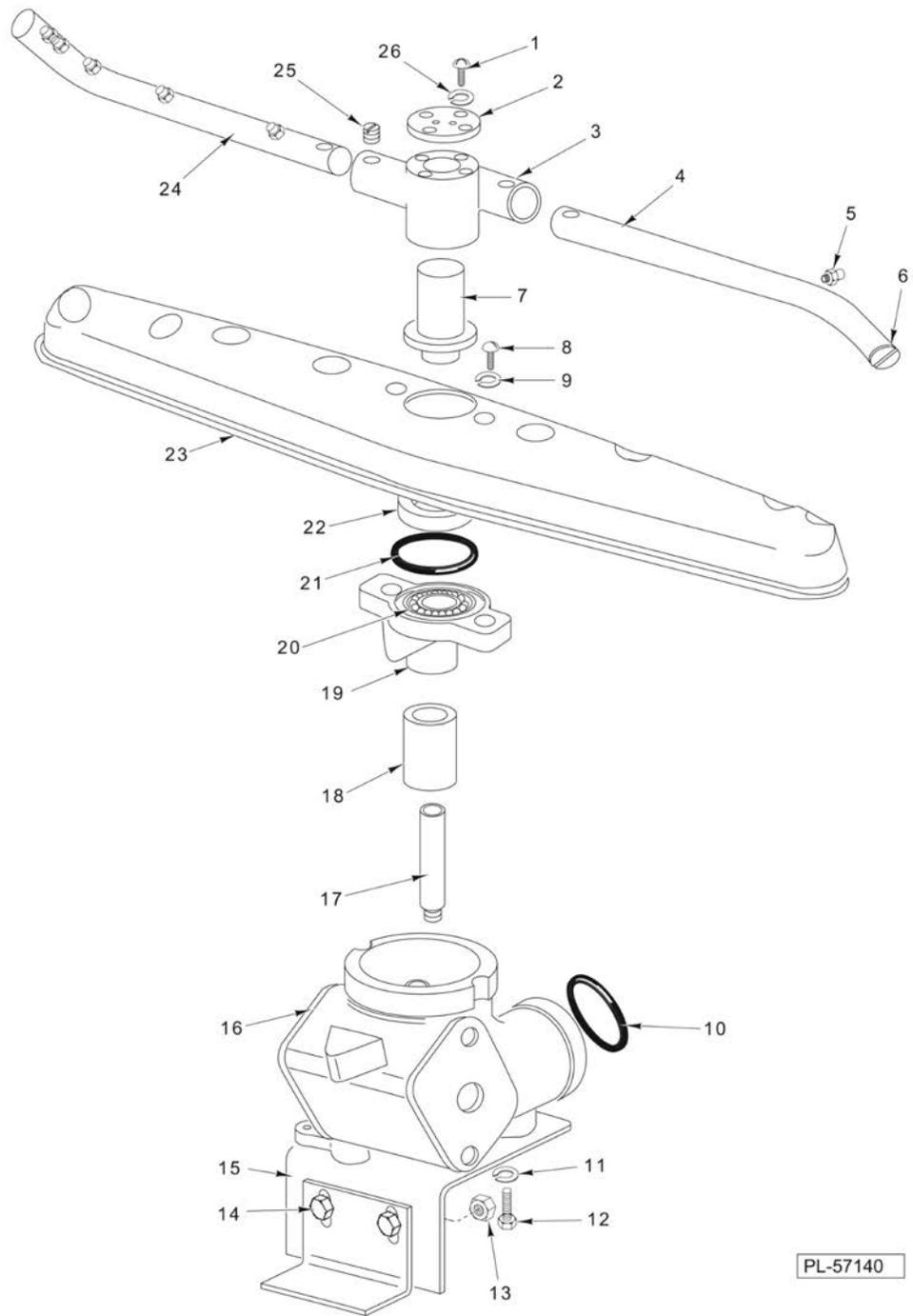
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-58354			
1	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B (Previous Construction).....	2
2	00-087714-020-2	Relay (3.P.D.T.) (Previous Construction).....	1
3	SD-036-13	Self-Tapping Screw 1/4-20 x 1-1/4 Hex Washer Hd., Type T (Previous Construction)	1
4	00-087714-042-1	Relay (2-Pole) (120 VAC) (30 Amp.).....	1
5	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	2
6	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	2
7	00-814301-00004	Block - Terminal.....	1
8	SD-034-59	Self-Tapping Screw 10-32 x 3/8 Phil. Pan Hd., Type T.....	1
9	00-118544-00001	Lug - Solderless.....	1
10	FE-022-39	Fuse (1.5 Amp.) (250 V.).....	1
11	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	1
12	00-294436-00003	Block - Fuse.....	1
13	00-918280	Plate - Base.....	1
14	00-814123	Relay - Single-Shot Time Delay (With Built-In Potentiometer) (Previous Construction)	1
15	00-294500-052-1	Transformer (100 VA.) (50/60 Hz.).....	1
16	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	4
17	00-918282	Box - Terminal.....	1
18	00-918281	Bracket - Terminal Mounting Box.....	1
19	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	2
20	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	4
21	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
22	NS-015-11	Nut 5/16-18 Hex (SST).....	2
23	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
24	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	4



**VENT EXHAUST ASSEMBLY**

**VENT EXHAUST ASSEMBLY**

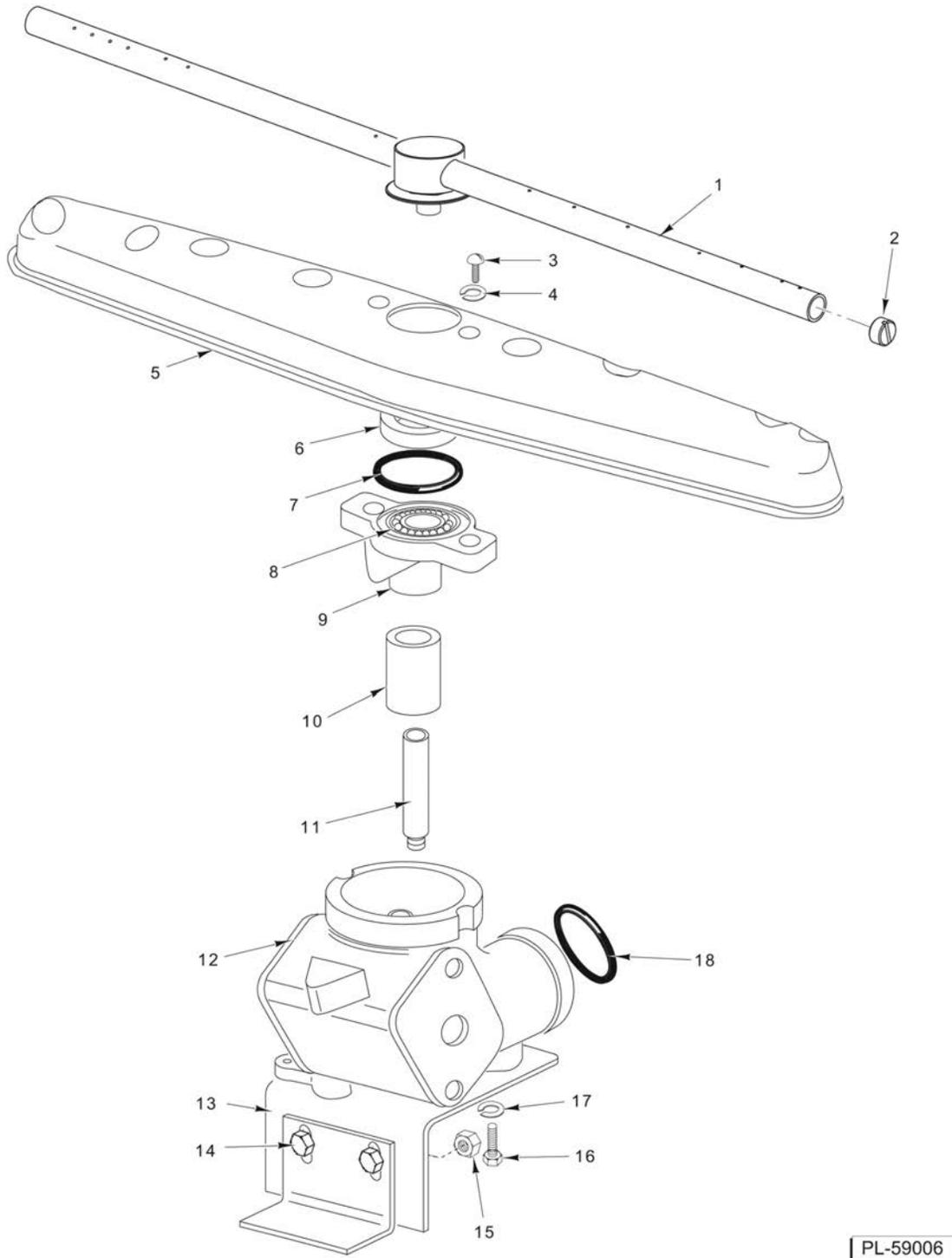
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-58355			
1	00-892250	Blade - Fan (10-1/2 In. Wing).....	1
2	00-892353	Motor - Fan (Exhaust) (230 V.) (Previous Construction).....	1
3	00-918088	Motor - Fan (Exhaust) (120 V.).....	1
4	00-892097	Duct - Exhaust.....	1
5	FE-022-84	Connector - Strain Relief.....	2
6	FE-024-88	Lock Nut 1/2 Electrical (Powered Vent Controls).....	2
7	FE-024-61	Connector 45 Deg. (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.) (Nonpowered Vent Controls).....	1
8	FE-024-65	Connector 90 Deg. (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.) (Nonpowered Vent Controls).....	1
9	00-812500	Vent - Weldment.....	1
10	SC-067-07	Mach. Screw 10-24 x 1/2 Hex Hd. (SST).....	4
11	WS-019-20	Washer 0.219 x 0.375 x 0.031 (SST).....	4
	00-814347	Vent - Stack (Incls. Item 9).....	1
	00-918959	Kit - Powered Vent Fan (Incls. Items 1, 3, 4, 5, 6, 9, 10, & 11).....	1



**LOWER WASH ARM  
(2 UNITS REQUIRED)  
(PREVIOUS CONSTRUCTION)**

**LOWER WASH ARM  
(2 UNITS REQUIRED)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57140	PART NO.	NAME OF PART	AMT.
1	SC-021-98	Mach. Screw 8-32 x 3/8 Phil. Rd. Hd. (SST).....	4
2	00-021137	Plate - Pivot Bearing.....	1
3	00-122633	Body - Lower Rinse Arm.....	1
4	00-122443-00002	Arm - Rinse (4 Nozzle Holes).....	1
5	00-022731-00001	Nozzle - Rinse.....	9
6	00-122440	Plug - Rinse Arm.....	2
7	00-286946	Bearing Pin & Washer Assy.....	1
8	SC-027-28	Mach. Screw 8-32 x 1/4 Slotted Rd. Hd. (Brass).....	3
9	WL-010-01	Lockwasher #8 External Shakeproof.....	3
10	00-067500-00057	O-Ring.....	1
11	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
12	SC-041-09	Cap Screw 5/16-18 x 1/2 Hex Hd. (SST).....	2
13	NS-031-29	Stop Nut 5/16-18 Hex (SST).....	2
14	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	2
15	00-811816	Bracket - Support.....	1
16	00-289084	Elbow.....	1
17	00-122437	Shaft.....	1
18	00-811828	Spacer - Lower Wash Arm.....	1
19	00-286948	Hub.....	1
20	BA-002-40	Ball 1/4 Dia.....	13
21	00-067500-00019	O-Ring.....	1
22	00-286947	Retainer - Ball.....	1
23	00-287987	Wash Arm & Hub Assy. (Incls. Items 19 thru 22).....	1
24	00-122442-00002	Arm - Rinse (5 Nozzle Holes).....	1
25	SC-110-44	Set Screw 5/16-18 x 3/8 Socket Hdls., Cone Pt. (Nylon).....	2
26	WL-006-01	Lockwasher #8 Helical (SST).....	4
	00-811831	Lower Rinse Arm Assy. (2 Per Machine) (Incls. Items 1 thru 6, 24, 25, & 26).....	1
	00-287152	Kit - Lower Wash Arm.....	1

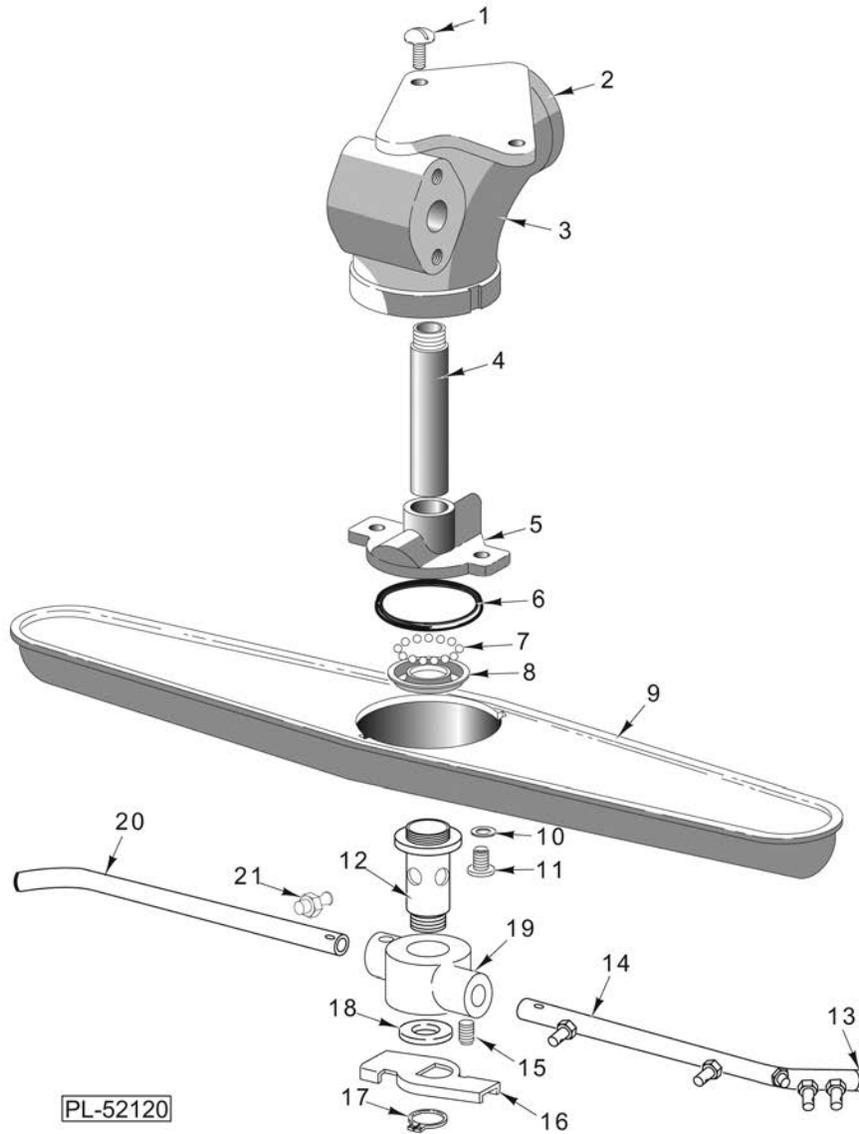


PL-59006

**LOWER WASH ARM  
(2 UNITS REQUIRED)  
(CURRENT CONSTRUCTION)**

**LOWER WASH ARM  
(2 UNITS REQUIRED)  
(CURRENT CONSTRUCTION)**

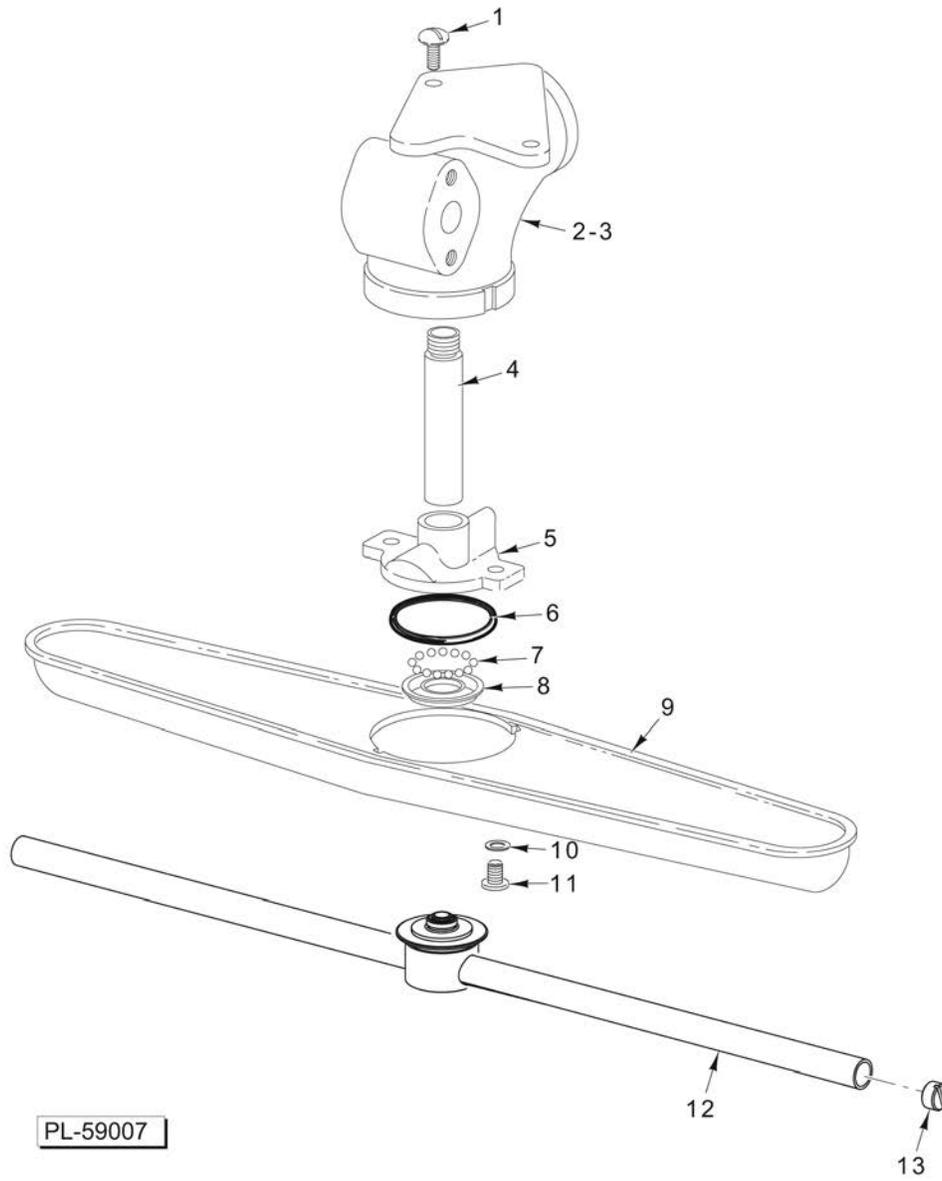
ILLUS. PL-59006	PART NO.	NAME OF PART	AMT.
1	00-893093-00001	Arm Assy. - Rinse (2 Per Machine).....	1
2	00-893093-00002	Plug - Rinse Arm.....	2
3	SC-098-01	Mach. Screw 10-24 x 1/2 Rd. Hd. (SST).....	3
4	WL-006-07	Lockwasher #10 Helical (SST).....	3
5	00-287987	Wash Arm & Hub Assy. (Incls. Items 6 thru 9).....	1
6	00-286947	Retainer - Ball.....	1
7	00-067500-00019	O-Ring.....	1
8	BA-002-40	Ball 1/4 Dia.....	13
9	00-286948	Hub.....	1
10	00-811828	Spacer - Lower Wash Arm.....	1
11	00-814345	Shaft.....	1
12	00-289084	Elbow.....	1
13	00-811816	Bracket - Support.....	1
14	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	2
15	NS-031-29	Stop Nut 5/16-18 Hex (SST).....	2
16	SC-041-09	Cap Screw 5/16-18 x 1/2 Hex Hd. (SST).....	2
17	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
18	00-067500-00057	O-Ring.....	1



**UPPER WASH ARM  
(2 UNITS REQUIRED)  
(PREVIOUS CONSTRUCTION)**

**UPPER WASH ARM  
(2 UNITS REQUIRED)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-52120	PART NO.	NAME OF PART	AMT.
1	SC-041-09	Cap Screw 5/16-18 x 1/2 Hex Hd. (SST).....	2
2	00-067500-00057	O-Ring.....	1
3	00-289084	Elbow - Upper Wash.....	1
4	00-122437	Shaft - Upper Wash Arm.....	1
5	00-286948	Hub.....	1
6	00-067500-00019	O-Ring.....	1
7	BA-002-40	Ball 1/4 Dia.....	13
8	00-286947	Retainer - Ball.....	1
9	00-287987	Wash Arm & Hub Assy. (Incls. Items 5 thru 8).....	1
10	WL-010-01	Lockwasher #8 External Shakeproof.....	3
11	SC-027-28	Mach. Screw 8-32 x 1/4 Slotted Rd. Hd. (Brass).....	3
12	00-122438	Upper Rinse Shaft Assy.....	1
13	00-122440	Plug - Rinse Arm.....	2
14	00-287908	Arm - Outside Rinse (5 Nozzle Holes).....	1
15	SC-110-44	Set Screw 5/16-18 x 3/8 Socket Hdls., Cone Pt. (Nylon).....	2
16	00-122445	Handle.....	1
17	RR-011-03	Retaining Ring.....	1
18	00-122632	Washer - Thrust.....	1
19	00-122401	Hub - Rinse Arm.....	1
20	00-287913	Arm - Inside Rinse (6 Nozzle Holes).....	1
21	00-022731-00001	Nozzle - Rinse.....	11
	00-811832	Rinse Arm Assy. (Incls. Items 12 thru 21).....	1
	00-287151	Kit - Upper Wash Arm.....	1

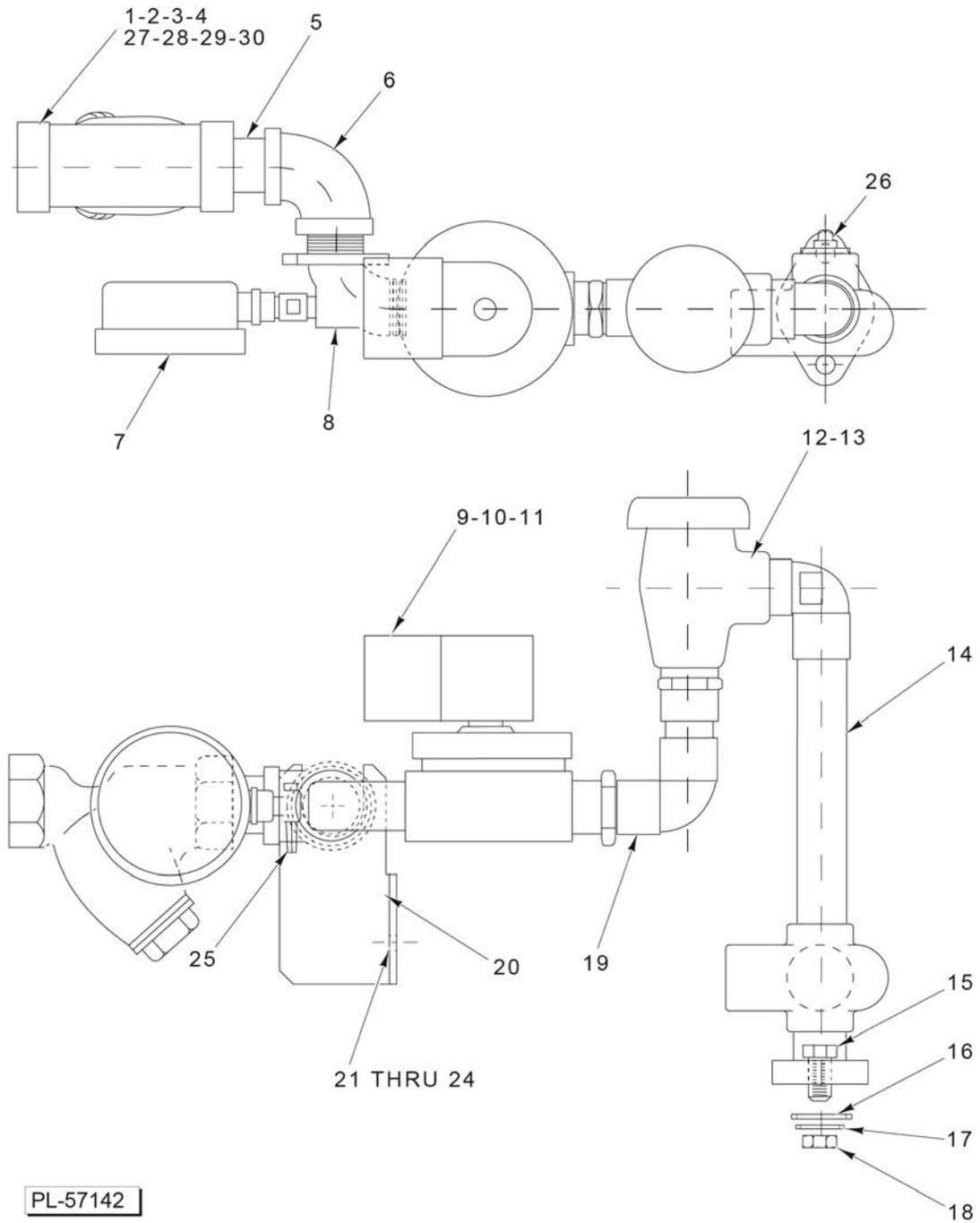


PL-59007

**UPPER WASH ARM  
(2 UNITS REQUIRED)  
(CURRENT CONSTRUCTION)**

**UPPER WASH ARM  
(2 UNITS REQUIRED)  
(CURRENT CONSTRUCTION)**

ILLUS. PL-59007	PART NO.	NAME OF PART	AMT.
1	SC-041-09	Cap Screw 5/16-18 x 1/2 Hex Hd. (SST).....	2
2	00-067500-00057	O-Ring.....	1
3	00-289084	Elbow - Upper Wash.....	1
4	00-814345	Shaft - Upper Wash Arm.....	1
5	00-286948	Hub.....	1
6	00-067500-00019	O-Ring.....	1
7	BA-002-40	Ball 1/4 Dia.....	13
8	00-286947	Retainer - Ball.....	1
9	00-287987	Wash Arm & Hub Assy. (Incls. Items 5 thru 8).....	1
10	WL-006-07	Lockwasher #10 Helical (SST).....	3
11	SC-098-01	Mach. Screw 10-24 x 1/2 Rd. Hd. (SST).....	3
12	00-893093-00001	Rinse Arm Assy.....	1
13	00-893093-00002	Plug - Rinse Arm.....	2

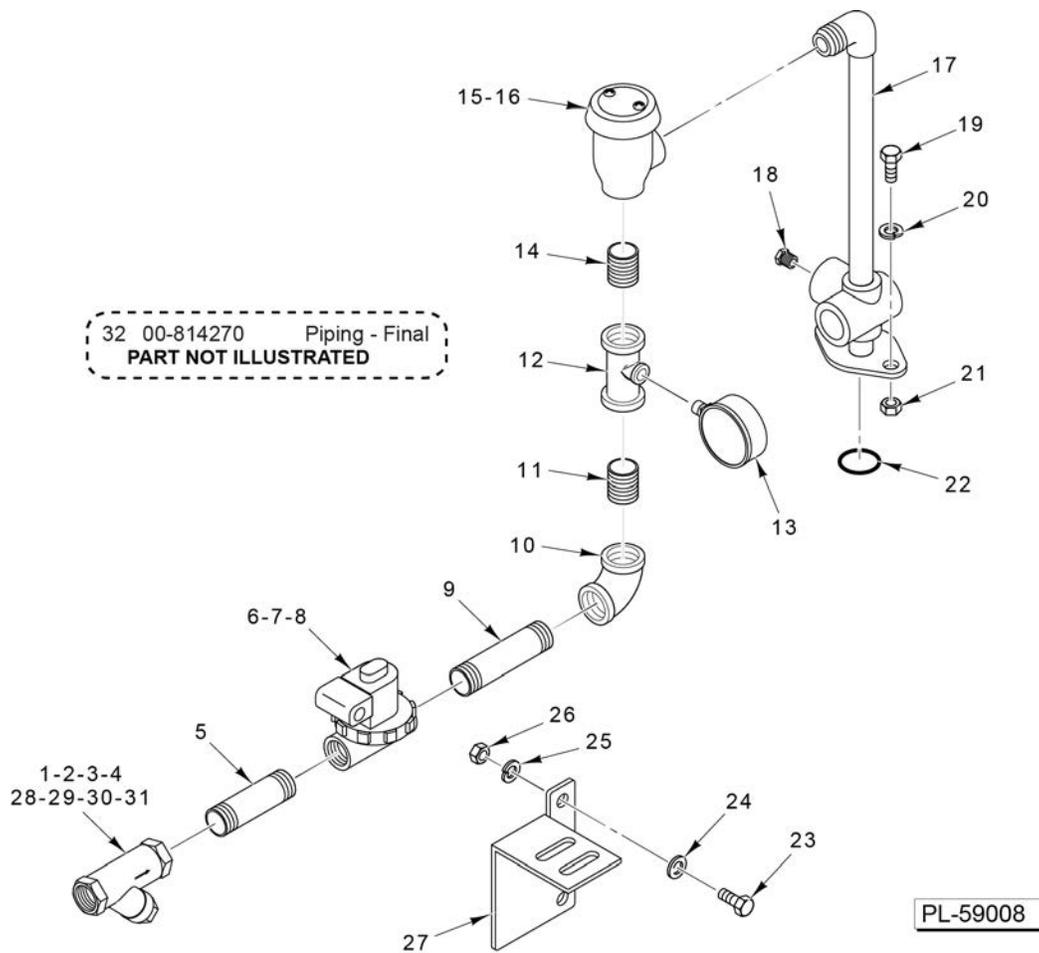


**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(PREVIOUS CONSTRUCTION)**

**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57142	PART NO.	NAME OF PART	AMT.
*1	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) (Incls. Items 2, 3, & 4) (Alternate to Item 27)	1
2	00-186923	Plug - Branch.....	1
3	00-186924	Gasket - Branch Plug.....	1
4	00-186925	Screen - Line Strainer.....	1
5	FP-041-53	Pipe 3/4 x 1-3/4 TBE (Brass).....	1
6	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
7	00-918460	Gauge - Water Pressure.....	1
8	00-119066	Tee - Pressure Gauge.....	1
9	00-271002-00001	Valve - Solenoid 3/4 (110-120 V.).....	1
10	00-271838	Service Kit - 3/4 Solenoid Valve.....	1
11	00-271839-00001	Coil - Solenoid Valve.....	1
12	00-277112	Vacuum Breaker (3/4).....	1
13	00-118270	Service Kit - Vacuum Breaker (Float & Seal Assy.).....	1
14	00-812556	Final Rinse Outside Piping (R-L).....	1
15	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
16	00-067500-00012	O-Ring.....	1
17	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
18	NS-015-11	Nut 5/16-18 Hex (SST).....	2
19	00-271001	Piping - Final Rinse.....	1
20	00-893696	Bracket - Mounting.....	1
21	SC-041-12	Cap Screw 5/16-18 x 7/8 Hex Hd. (SST).....	2
22	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	4
23	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
24	NS-015-11	Nut 5/16-18 Hex (SST).....	2
25	00-473041	Valve - Ball (1/4 turn).....	1
26	FP-028-03	Pipe Plug 1/8 Sq. Hd. (Brass).....	1
*27	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 28, 29, & 30) (Alternate to item 1).....	1
28	00-749802-00001	Cap.....	1
29	00-749802-00002	Gasket.....	1
30	00-749802-00003	Screen (80 Mesh).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.

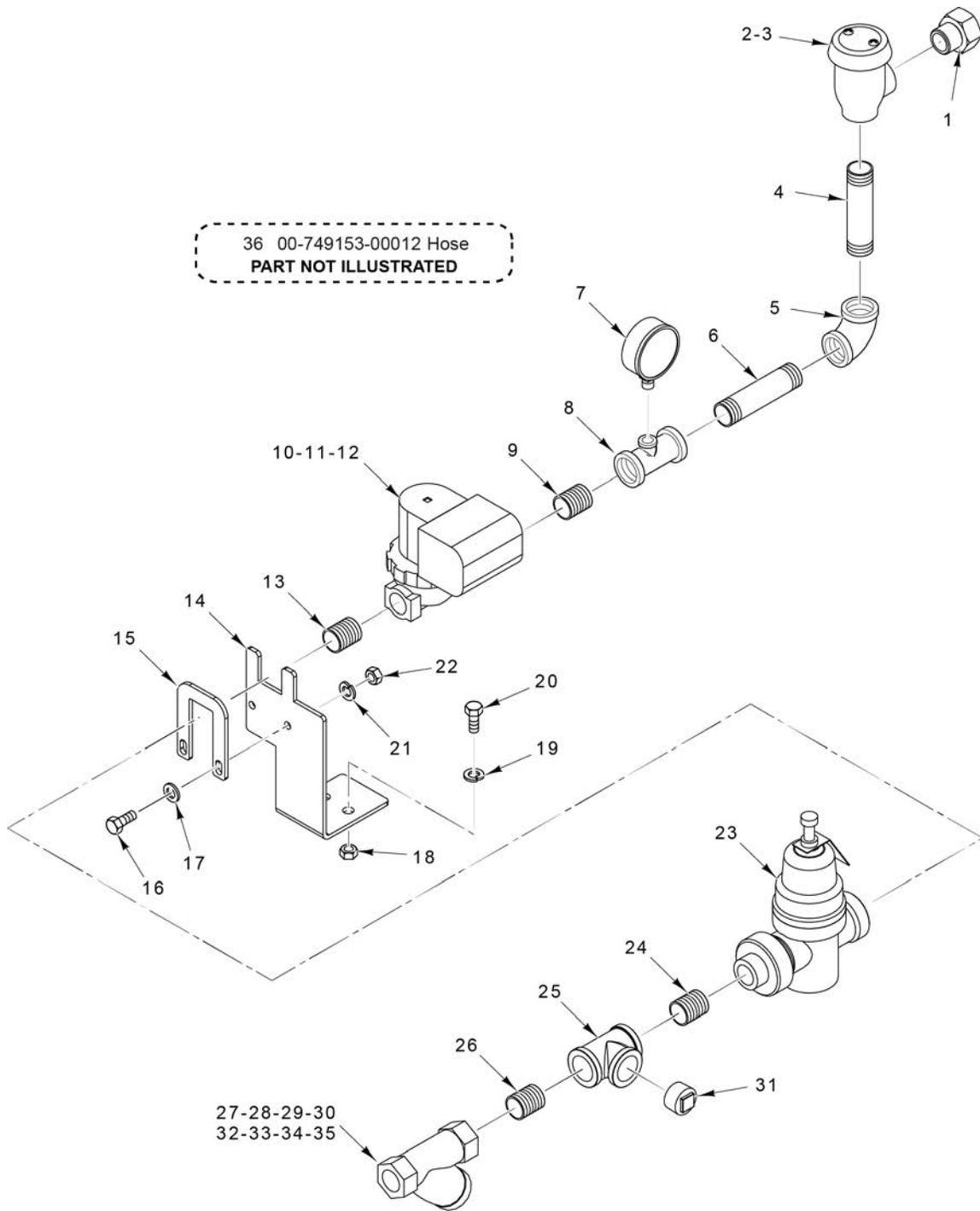


**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(BEFORE S/N 851081922)**

**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(BEFORE S/N 851081922)**

ILLUS. PL-59008	PART NO.	NAME OF PART	AMT.
*1	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) (Incls. Items 2, 3, & 4) (Alternate to Item 28)	1
2	00-186923	Plug - Branch.....	1
3	00-186924	Gasket - Branch Plug.....	1
4	00-186925	Screen - Line Strainer.....	1
5	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
6	00-271002-00001	Valve - Solenoid 3/4 (110-120 V.).....	1
7	00-271838	Service Kit - 3/4 Solenoid Valve.....	1
8	00-271839-00001	Coil - Solenoid Valve.....	1
9	FP-041-72	Pipe 3/4 x 3-1/8 TBE (Brass).....	1
10	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
11	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
12	FP-019-86	Tee 3/4 x 3/4 x 1/4 Reducing (Brass).....	1
13	00-918460	Gauge - Water Pressure.....	1
14	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
15	00-277112-00003	Vacuum Breaker (3/4).....	1
16	00-118270	Service Kit - Vacuum Breaker (Float & Seal Assy.).....	1
17	00-812556	Final Rinse Outside Piping (R-L).....	1
18	FP-028-03	Pipe Plug 1/8 Sq. Hd. (Brass).....	1
19	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
20	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
21	NS-015-11	Nut 5/16-18 Hex (SST).....	2
22	00-067500-00012	O-Ring.....	1
23	SC-041-12	Cap Screw 5/16-18 x 7/8 Hex Hd. (SST).....	2
24	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	4
25	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
26	NS-015-11	Nut 5/16-18 Hex (SST).....	2
27	00-814272	Bracket - Fill Piping.....	1
*28	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 29, 30, & 31) (Alternate to Item 1).....	1
29	00-749802-00001	Cap.....	1
30	00-749802-00002	Gasket.....	1
31	00-749802-00003	Screen (80 Mesh).....	1
32	00-814270	Piping - Final Rinse (Incls. Items 1 thru 17).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.



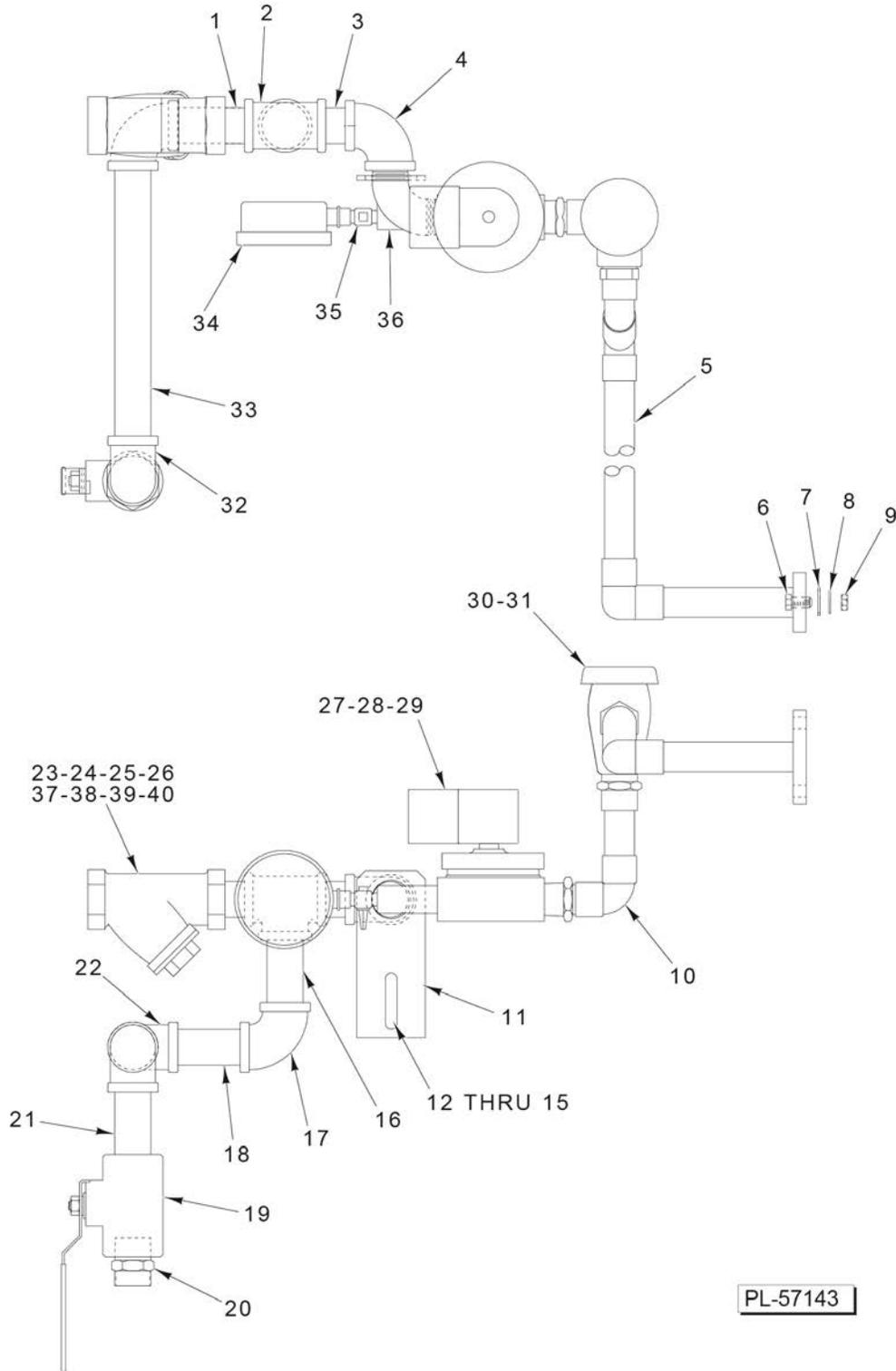
PL-60191

**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(AFTER S/N 851081922)**

**OUTSIDE RINSE PIPING  
(W/O BOOSTER)  
(AFTER S/N 851081922)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60191			
1	00-814998	Bushing - Hex 3/4 to 1/2.....	1
2	00-292909-00002	Vacuum Breaker 1/2 In.....	1
3	00-292910	Service Kit - Vacuum Breaker.....	1
4	FP-040-76	NLA - Obsolete--Pipe 1/2 x 4-1/2 TBE (Brass).....	1
5	FP-015-16	Elbow - Pipe 1/2 x 90 Deg. (Brass).....	1
6	FP-040-76	NLA - Obsolete--Pipe 1/2 x 4-1/2 TBE (Brass).....	1
7	00-918460	Gauge - Water Pressure.....	1
8	FP-069-06	Tee - Pipe 1/2 x 1/2 x 1/4 (Brass).....	1
9	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
10	00-435968-00001	Valve - Solenoid (1/2 In.) (110-120 V.).....	1
11	00-271839-00001	Coil - Solenoid Valve.....	1
12	00-271837	Service Kit - Solenoid Valve.....	1
13	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
14	00-814933	Bracket - Piping Support.....	2
15	00-814934	Lock Plate - Piping.....	2
16		Screw.....	4
17		Washer.....	4
18		Nut.....	4
19		Washer.....	4
20		Screw.....	4
21		Lock Washer.....	4
22		Nut.....	4
23	00-118038-00003	Regulator - Pressure (1/2) (Brass).....	1
24	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
25	FP-019-21	Tee - Pipe 1/2 x 1/2 x 1/2 (Brass).....	1
26	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
*27	00-270258	Strainer - Line (1/2) (Brass) (Kitz) (Incls. Items 28, 29, & 30) (Alternate to Item 32) .....	1
28	00-270259	Plug - Branch.....	1
29	00-270260	Screen - Strainer (1/2 In.).....	1
30	00-270261	Gasket.....	1
31	FP-028-15	Pipe Plug 1/2 Sq. Hd. (Brass).....	1
*32	00-892921	Strainer - Line (1/2) (Brass) (Conbraco) (Incls. Items 33, 34, & 35) (Alternate to Item 27) .....	1
33	00-892922-00001	Cap.....	1
34	00-892922-00002	Gasket.....	1
35	00-892922-00003	Screen.....	1
36	00-749153-00012	Hose 3/4 x 29 In. Lg.....	1

\* Kitz line strainer is approx. 0.43 inches longer than Conbraco.

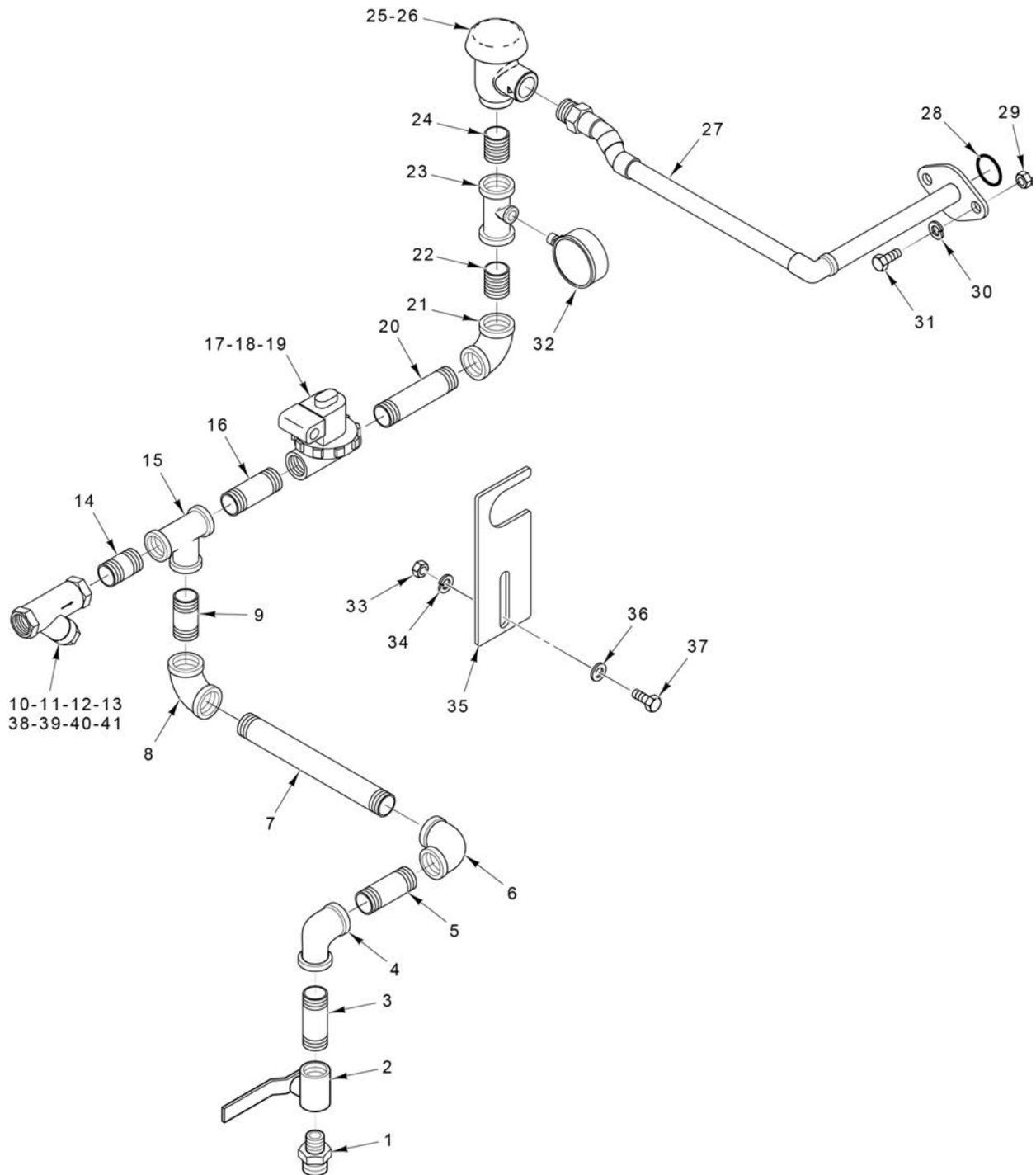


**OUTSIDE RINSE PIPING  
(WITH BOOSTER)  
(PREVIOUS CONSTRUCTION)**

**OUTSIDE RINSE PIPING  
(WITH BOOSTER)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57143	PART NO.	NAME OF PART	AMT.
1	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
2	FP-019-28	Tee - Pipe 3/4 x 3/4 x 3/4 (Brass).....	1
3	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
4	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
5	00-812338	Piping - Breaker/Flange.....	1
6	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
7	00-067500-00012	O-Ring.....	1
8	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
9	NS-015-11	Nut 5/16-18 Hex (SST).....	2
10	00-812716	Piping - Final Rinse.....	1
11	00-435967	Plate - Fill Piping.....	1
12	SC-041-12	Cap Screw 5/16-18 x 7/8 Hex Hd. (SST).....	2
13	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	4
14	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
15	NS-015-11	Nut 5/16-18 Hex (SST).....	2
16	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
17	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
18	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
19	00-223220-00003	Valve 3/4 In. Ball.....	1
20	FP-087-32	Fitting - Hose.....	1
21	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
22	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
*23	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) (Incls. Items 24, 25, & 26) (Alternate to Item 37) .....	1
24	00-186923	Plug - Branch.....	1
25	00-186924	Gasket - Branch Plug.....	1
26	00-186925	Screen - Line Strainer.....	1
27	00-271002-00001	Valve - Solenoid 3/4 (110-120 V.).....	1
28	00-271838	Service Kit - 3/4 Solenoid Valve.....	1
29	00-271839-00001	Coil - Solenoid Valve.....	1
30	00-277112	Vacuum Breaker (3/4).....	1
31	00-118270	Service Kit - Vacuum Breaker (Float & Seal Assy.).....	1
32	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
33	FP-042-15	Pipe 3/4 x 8-1/2 TBE (Brass).....	1
34	00-918460	Gauge - Water Pressure.....	1
35	00-473041	Valve - Ball (1/4 turn).....	1
36	00-119066	Tee - Pressure Gauge.....	1
*37	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 30, 31, & 32) (Alternate to item 23).....	1
38	00-749802-00001	Cap.....	1
39	00-749802-00002	Gasket.....	1
40	00-749802-00003	Screen (80 Mesh).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.



PL-59009

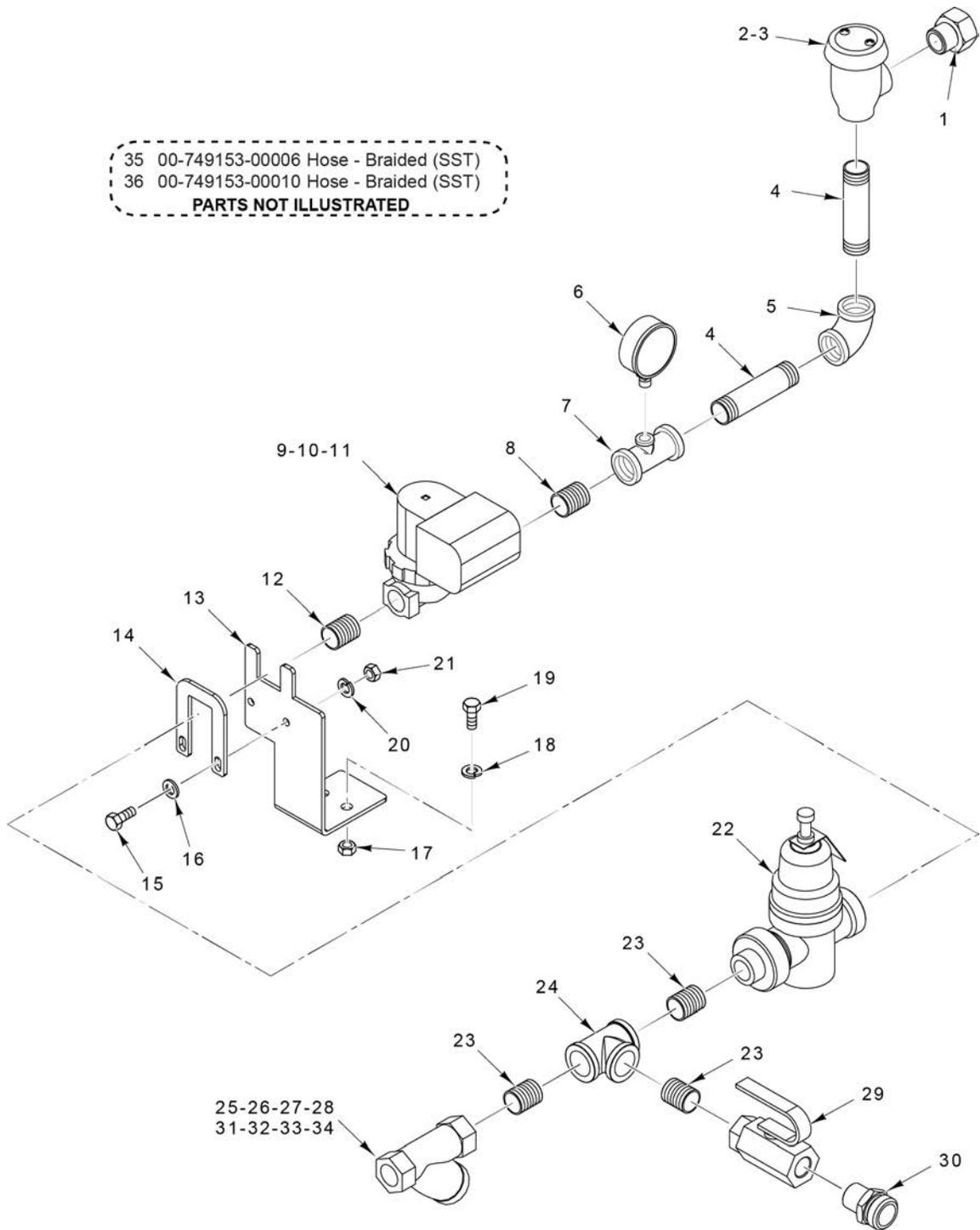
**OUTSIDE RINSE PIPING  
(WITH BOOSTER)  
(BEFORE S/N 851081922)**

**OUTSIDE RINSE PIPING  
(WITH BOOSTER)  
(BEFORE S/N 851081922)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-59009			
1	FP-087-32	Fitting - Hose.....	1
2	00-223220-00003	Valve 3/4 In. Ball.....	1
3	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
4	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
5	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
6	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
7	FP-041-96	Pipe 3/4 x 6 TBE (Brass).....	1
8	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
9	FP-041-53	Pipe 3/4 x 1-3/4 TBE (Brass).....	1
*10	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) Incls. Items 11, 12, & 13) (Alternate to Item 38) .....	1
11	00-186923	Plug - Branch.....	1
12	00-186924	Gasket - Branch Plug.....	1
13	00-186925	Screen - Line Strainer.....	1
14	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
15	FP-019-28	Tee - Pipe 3/4 x 3/4 x 3/4 (Brass).....	1
16	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
17	00-271002-00001	Valve - Solenoid 3/4 (110-120 V.).....	1
18	00-271838	Service Kit - 3/4 Solenoid Valve.....	1
19	00-271839-00001	Coil - Solenoid Valve.....	1
20	FP-041-72	Pipe 3/4 x 3-1/8 TBE (Brass).....	1
21	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
22	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
23	FP-019-86	Tee 3/4 x 3/4 x 1/4 Reducing (Brass).....	1
24	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
25	00-277112-00003	Vacuum Breaker (3/4).....	1
26	00-118270	Service Kit - Vacuum Breaker (Float & Seal Assy.).....	1
27	00-812338	Piping - Breaker/Flange.....	1
28	00-067500-00012	O-Ring.....	1
29	NS-015-11	Nut 5/16-18 Hex (SST).....	2
30	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
31	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
32	00-918460	Gauge - Water Pressure.....	1
33	NS-015-11	Nut 5/16-18 Hex (SST).....	2
34	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
35	00-814271	Plate - Fill Piping.....	1
36	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	4
37	SC-041-12	Cap Screw 5/16-18 x 7/8 Hex Hd. (SST).....	2
*38	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 39, 40, & 41) (Alternate to Item 10).....	1
39	00-749802-00001	Cap.....	1
40	00-749802-00002	Gasket.....	1
41	00-749802-00003	Screen (80 Mesh).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.

35 00-749153-00006 Hose - Braided (SST)  
 36 00-749153-00010 Hose - Braided (SST)  
**PARTS NOT ILLUSTRATED**



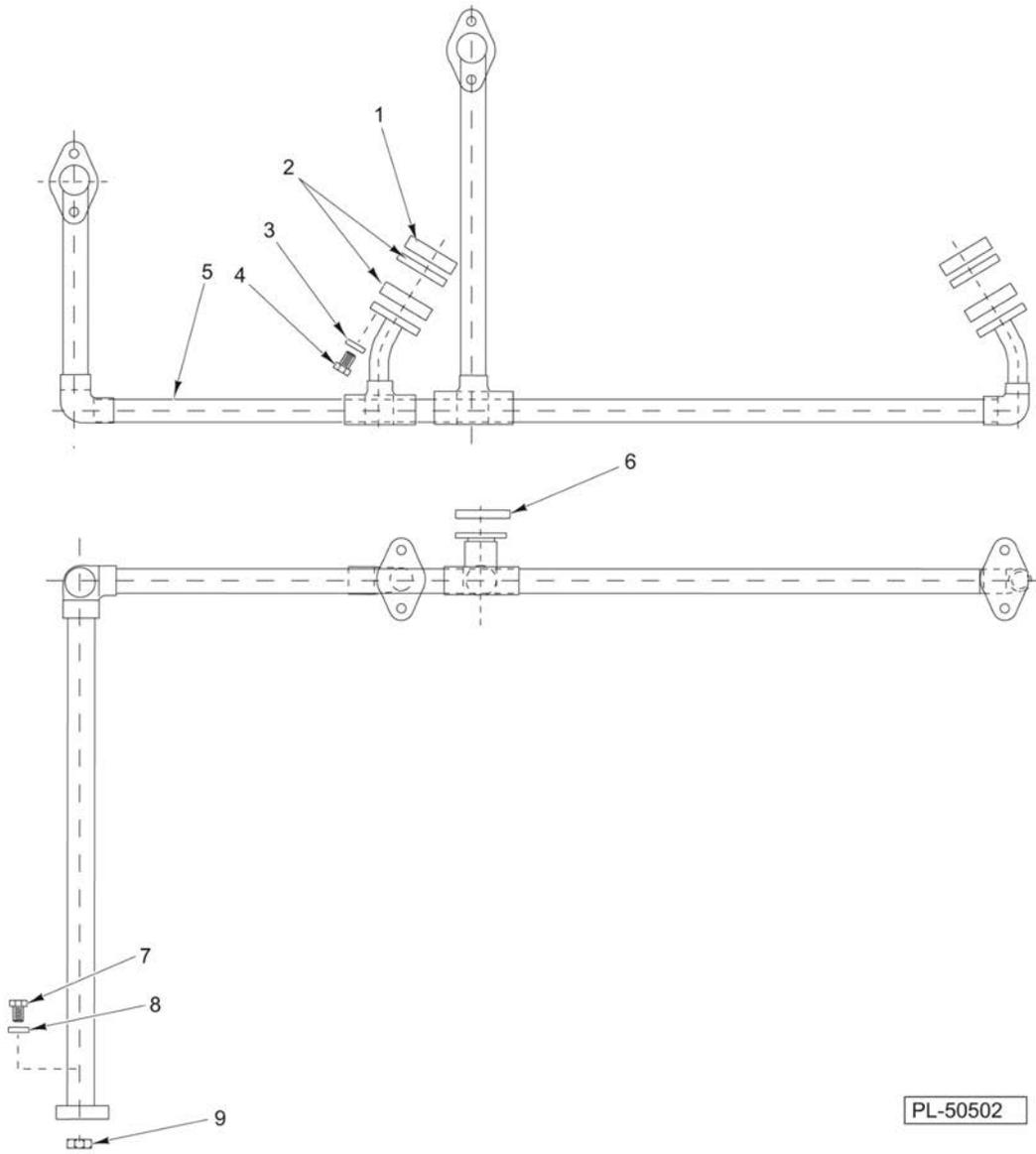
PL-60192

**OUTSIDE RINSE PIPING  
 (WITH BOOSTER)  
 (AFTER S/N 851081922)**

**OUTSIDE RINSE PIPING  
(WITH BOOSTER)  
(AFTER S/N 851081922)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60192			
1	00-814998	Bushing - Hex 3/4 to 1/2.....	1
2	00-292909-00002	Vacuum Breaker 1/2 In.....	1
3	00-292910	Service Kit - Vacuum Breaker.....	1
4		Pipe 1/2 x 4-1/2 TBE (Brass).....	2
5	FP-015-16	Elbow - Pipe 1/2 x 90 Deg. (Brass).....	1
6	00-918460	Gauge - Water Pressure.....	1
7	FP-069-06	Tee - Pipe 1/2 x 1/2 x 1/4 (Brass).....	1
8	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
9	00-435968-00001	Valve - Solenoid (1/2 In.) (110-120 V.).....	1
10	00-271839-00001	Coil - Solenoid Valve.....	1
11	00-271837	Service Kit - Solenoid Valve.....	1
12	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
13	00-814933	Bracket - Piping Support.....	2
14	00-814934	Lock Plate - Piping.....	2
15		Screw.....	4
16		Washer.....	4
17		Nut.....	4
18		Washer.....	4
19		Screw.....	4
20		Lock Washer.....	4
21		Nut.....	4
22	00-118038-00003	Regulator - Pressure (1/2) (Brass).....	1
23	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	3
24	FP-019-21	Tee - Pipe 1/2 x 1/2 x 1/2 (Brass).....	1
*25	00-270258	Strainer - Line (1/2) (Brass) (Kitz) (Incls. Items 28, 29, & 30) (Alternate to Item 33) .....	1
26	00-270259	Plug - Branch.....	1
27	00-270260	Screen - Strainer (1/2 In.).....	1
28	00-270261	Gasket.....	1
29	00-292386	Ball Valve (1/2).....	1
30	00-814999	Adapter 3/4 to 1/2 NPT.....	1
*31	00-892921	Strainer - Line (1/2) (Brass) (Conbraco) (Incls. Items 32, 33, & 34) (Alternate to Item 25) .....	1
32	00-892922-00001	Cap.....	1
33	00-892922-00002	Gasket.....	1
34	00-892922-00003	Screen.....	1
35	00-749153-00006	Hose - Braided 3/4 x 18 In. Lg. (SST).....	1
36	00-749153-00010	Hose - Braided 3/4 x 37 In. Lg. (SST).....	1

\* Kitz line strainer is approx. 0.43 inches longer than Conbraco.

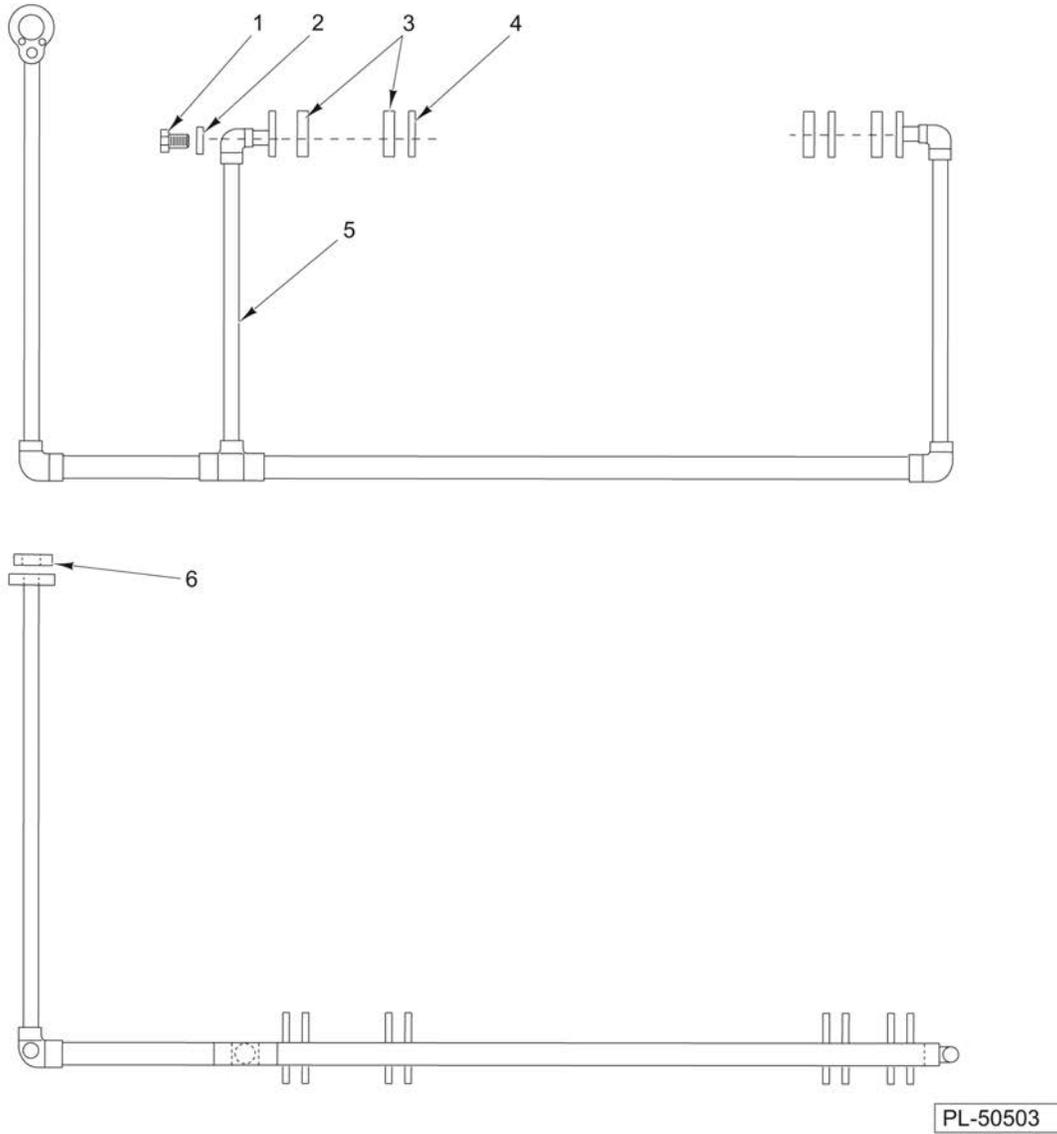


PL-50502

### UPPER INSIDE RINSE PIPING

**UPPER INSIDE RINSE PIPING**

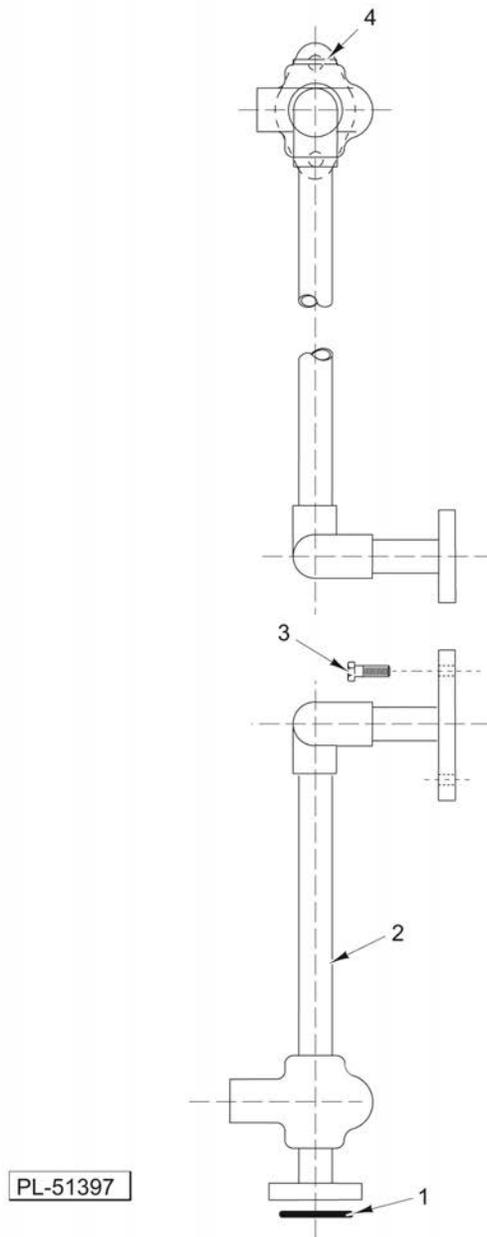
<b>ILLUS.</b>	<b>PART NO.</b>	<b>NAME OF PART</b>	<b>AMT.</b>
<b>PL-50502</b>			
1	00-122402-00002	Flange.....	2
2	00-276407	Gasket - Rinse Pipe.....	4
3	WL-006-23	Lockwasher 5/16 Helical (SST).....	8
4	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	8
5	00-811820	Upper Rinse Piping Assy.....	1
6	00-276407	Gasket - Rinse Pipe.....	1
7	SC-041-15	Cap Screw 5/16-18 x 1-1/4 Hex Hd. (SST).....	2
8	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
9	NS-015-11	Nut 5/16-18 Hex (SST).....	2



**LOWER INSIDE RINSE PIPING**

**LOWER INSIDE RINSE PIPING**

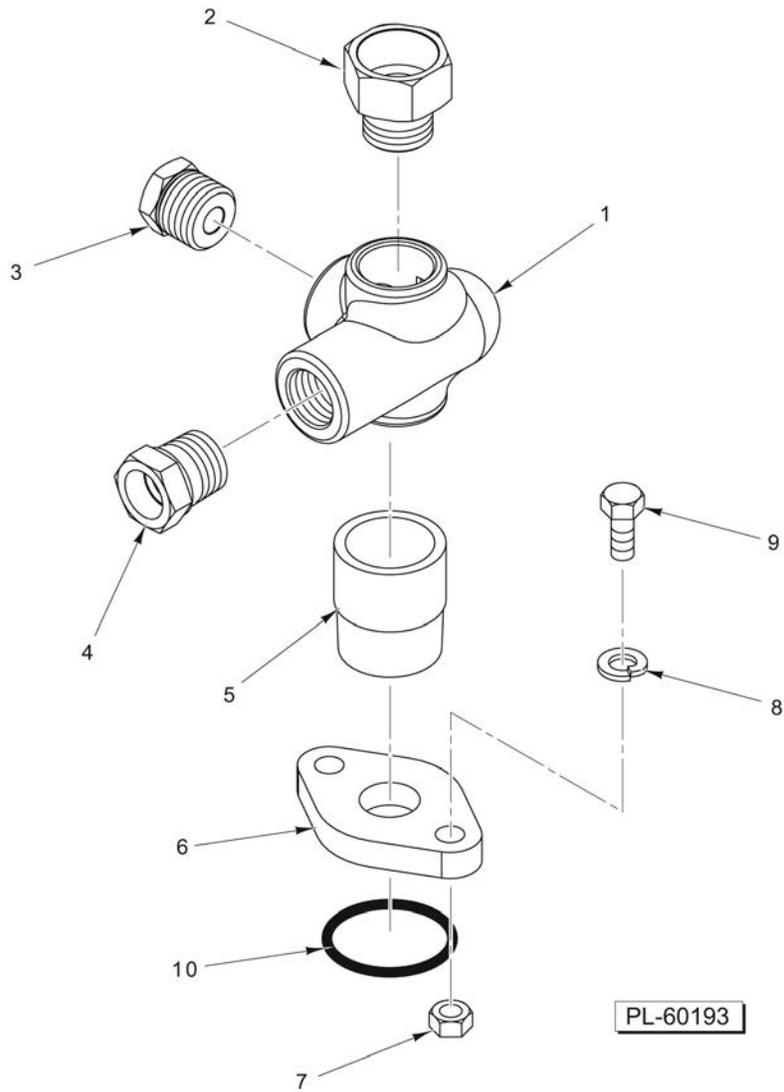
ILLUS. PL-50503	PART NO.	NAME OF PART	AMT.
1	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	8
2	WL-006-23	Lockwasher 5/16 Helical (SST).....	8
3	00-276407	Gasket - Rinse Pipe.....	4
4	00-122402-00002	Flange.....	2
5	00-811819	Lower Rinse Piping Assy.....	1
6	00-067500-00012	O-Ring.....	1



**MANIFOLD FLANGE PIPING  
(WITH BOOSTER)  
(BEFORE S/N 851081922)**

**MANIFOLD FLANGE PIPING  
(WITH BOOSTER)  
(BEFORE S/N 851081922)**

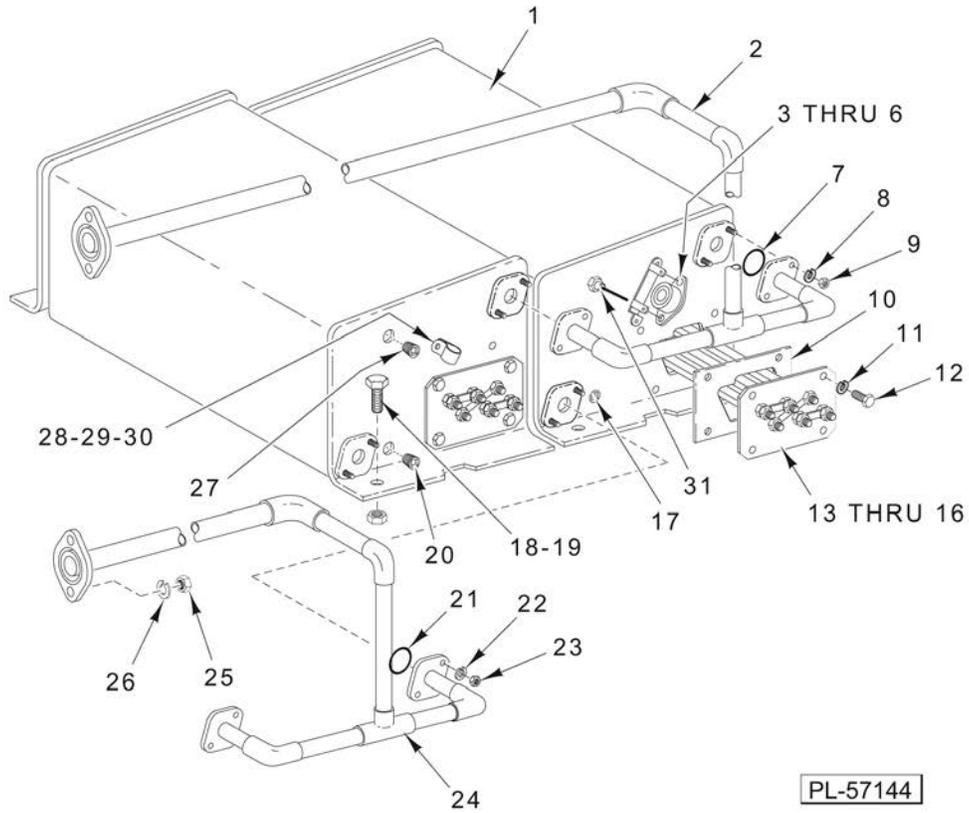
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-51397			
1	00-067500-00012	O-Ring.....	1
2	00-812340	Manifold Flange Piping Assy.....	1
3	SC-041-14	Cap Screw 5/16-18 x 1-1/8 Hex Hd. (SST).....	2
4	FP-052-20	Pipe Plug 1/8 Sq. Hd. (SST).....	1



**MANIFOLD FLANGE PIPING  
(ALL MACHINES AFTER S/N 851081922)**

**MANIFOLD FLANGE PIPING  
(ALL MACHINES AFTER S/N 851081922)**

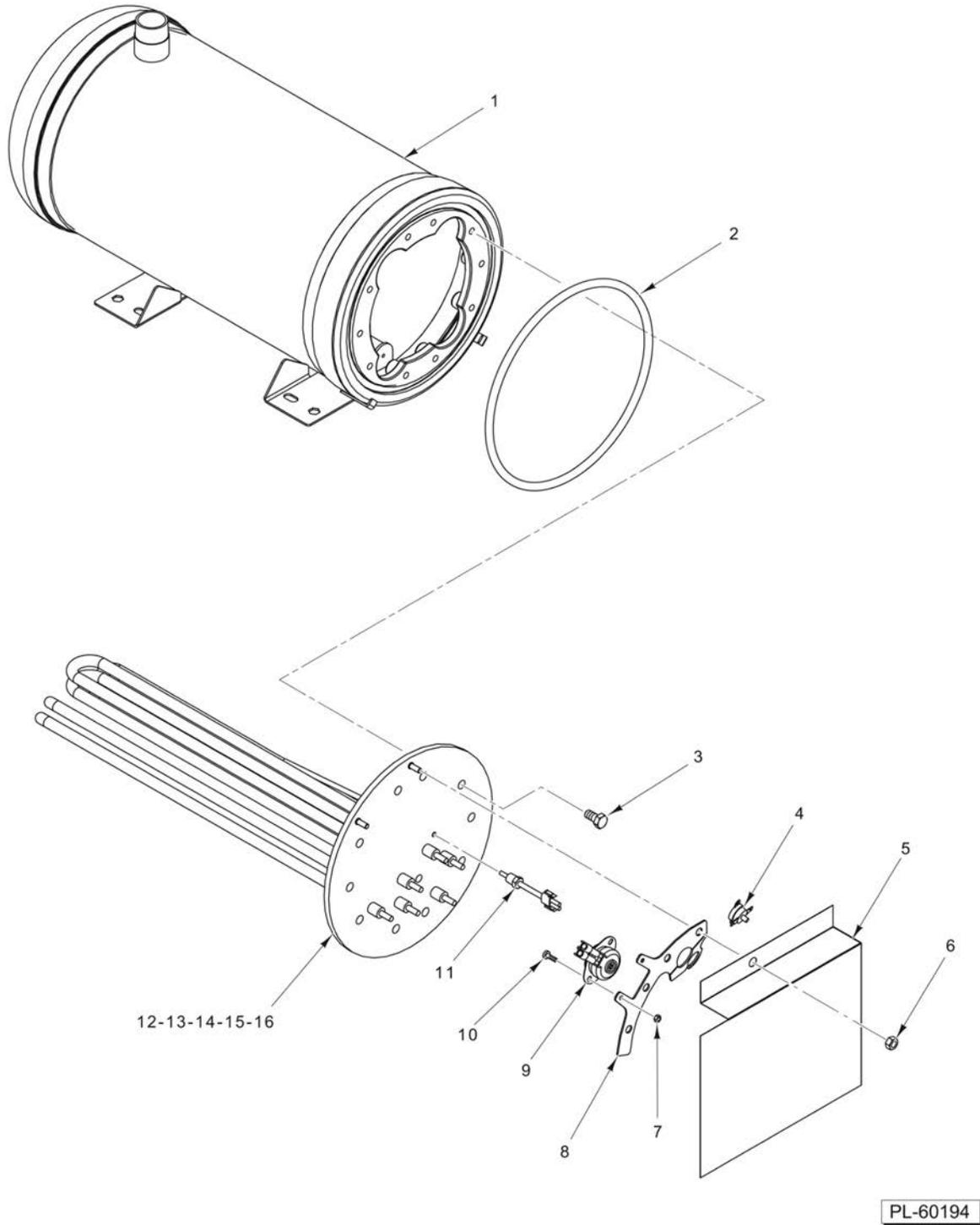
<b>ILLUS.</b>	<b>PART NO.</b>	<b>NAME OF PART</b>	<b>AMT.</b>
<b>PL-60193</b>			
1	00-066394	Manifold - Thermometer Bulb.....	1
2	00-814998	Bushing - Hex 3/4 to 1/2.....	1
3	00-815000	Bushing 1/2 to 1/8 NPT.....	1
4		Fitting.....	1
5	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	1
6	00-815001	Flange.....	1
7	NS-015-11	Nut 5/16-18 Hex (SST).....	2
8	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
9	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
10	00-067500-00012	O-Ring.....	1



**ELECTRIC BOOSTER  
(BEFORE S/N 851081922)**

**ELECTRIC BOOSTER  
(BEFORE S/N 851081922)**

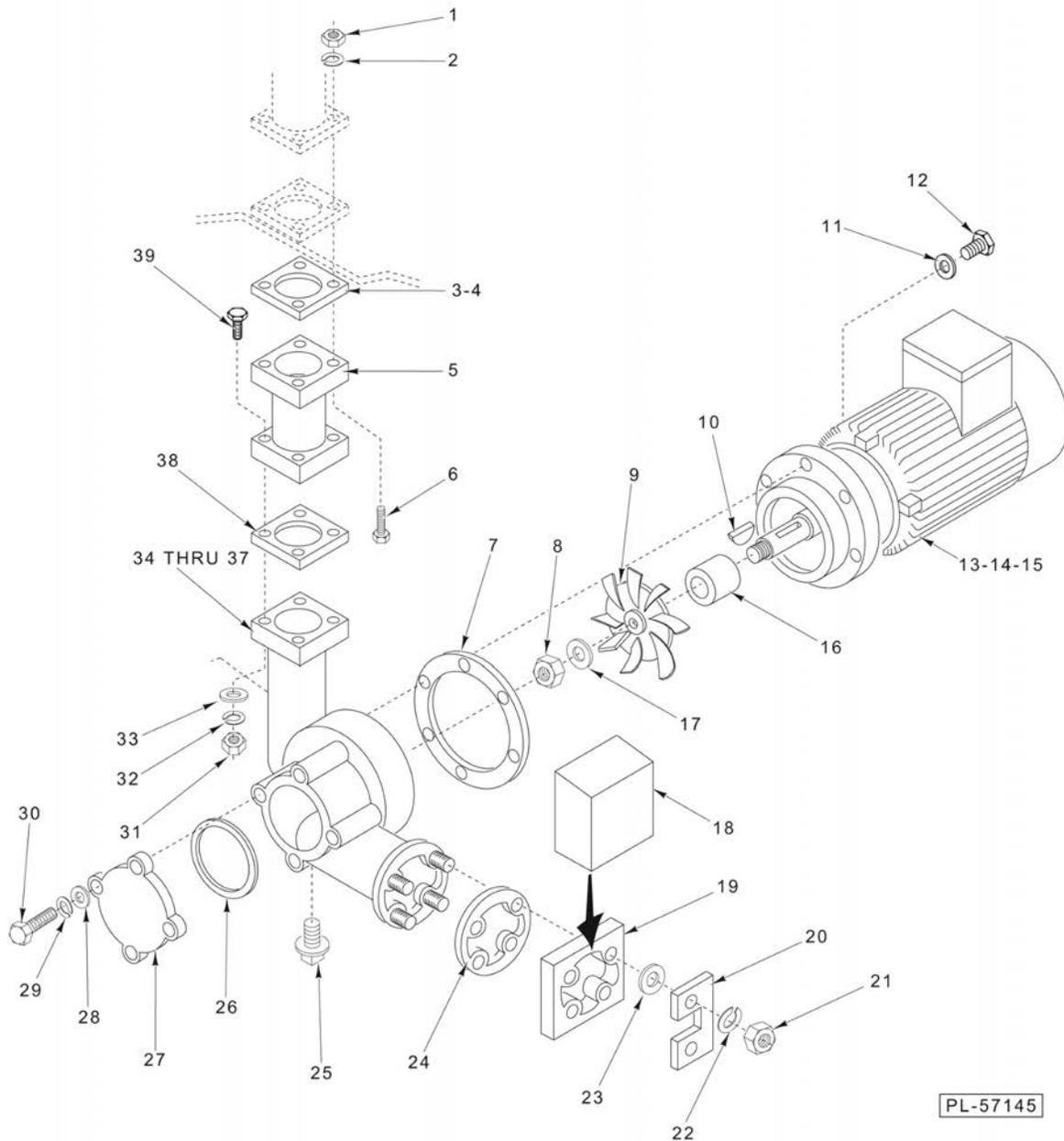
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57144			
1	00-913102-00370	KIT, BOOSTER/HEATER 480/PROBE.....	2
2	00-812341	Upper - Flange Piping.....	1
3	00-271123	Protector - High Limit.....	2
4	00-293946	Sleeve - Lead.....	2
5	SC-021-98	Mach. Screw 8-32 x 3/8 Phil. Rd. Hd. (SST).....	4
6	NS-031-08	Stop Nut 8-32 Special (SST).....	4
7	00-067500-00012	O-Ring.....	2
8	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
9	NS-015-01	Nut 1/4-20 Hex (SST).....	4
10	00-329009	Gasket - Heater Mounting.....	2
11	WL-006-17	Lockwasher 1/4 Helical (SST).....	8
12	NS-014-01	Nut 1/4-20 Hex (Brass).....	8
13	00-812349-00001	Heating Element (240 V., 7000 Watts).....	2
14	00-812349-00002	Heating Element (208 V., 7000 Watts).....	2
15	00-812349-00003	Heating Element (480 V., 7000 Watts).....	2
16	00-812349-00004	Element - Booster Heater (380/415/50/60/3) (7000-8300 Watts).....	2
17	FP-052-20	Pipe Plug 1/8 Sq. Hd. (SST).....	1
18	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	6
19	NS-031-19	Stop Nut 1/4-20 Hex (SST).....	6
20	FP-052-20	Pipe Plug 1/8 Sq. Hd. (SST).....	1
21	00-067500-00012	O-Ring.....	2
22	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
23	NS-015-01	Nut 1/4-20 Hex (SST).....	4
24	00-812339	Lower - Flange Piping.....	1
25	NS-015-11	Nut 5/16-18 Hex (SST).....	4
26	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
27	FP-052-20	Pipe Plug 1/8 Sq. Hd. (SST).....	1
28	00-289364	Spacer.....	1
29	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
30	NS-031-50	Stop Nut 6-32 Hex (SST).....	1
31	00-328994	Sensor - Probe.....	1
	00-812344-00001	Booster Enclosure.....	1
	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	3
	NS-031-19	Stop Nut 1/4-20 Hex (SST).....	3
	00-812346	Cover - Booster Enclosure.....	1
	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	4



**ELECTRIC BOOSTER  
(AFTER S/N 851081922)**

**ELECTRIC BOOSTER  
(AFTER S/N 851081922)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60194			
1	00-814961	Tank Weldment - Booster.....	1
2	00-067500-00148	O-Ring.....	1
3	00-918512	Mounting Screw (With Sealer).....	10
4	00-294615-00001	Control - Temperature.....	1
5	00-936229	Barrier - Mylar.....	1
6	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
7	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
8	00-936374	Bracket - Booster High Limit.....	1
9	00-271123	Protector - High Limit.....	1
10	SC-127-26	Mach. Screw 6-32 x 3/8 Phil. Rd. Hd. (SST).....	2
11	00-328994	Probe Assy. - Rinse.....	1
12	00-814963-00001	Heater - Booster (200/208 V.).....	1
13	00-814963-00002	Heater - Booster (220/240 V.).....	1
14	00-814963-00003	Heater - Booster (440/480 V.).....	1
15	00-814963-00004	Heater - Booster (380/415 V.).....	1
16	00-814963-00005	Heater - Booster (600/655 V.).....	1
	FP-090-25	Pipe 1/2 x 1 STOE.....	1
	FP-019-21	Tee - Pipe 1/2 x 1/2 x 1/2 (Brass).....	1
	FP-028-15	Pipe Plug 1/2 Sq. Hd. (Brass).....	1
	FP-015-16	Elbow - Pipe 1/2 x 90 Deg. (Brass).....	1



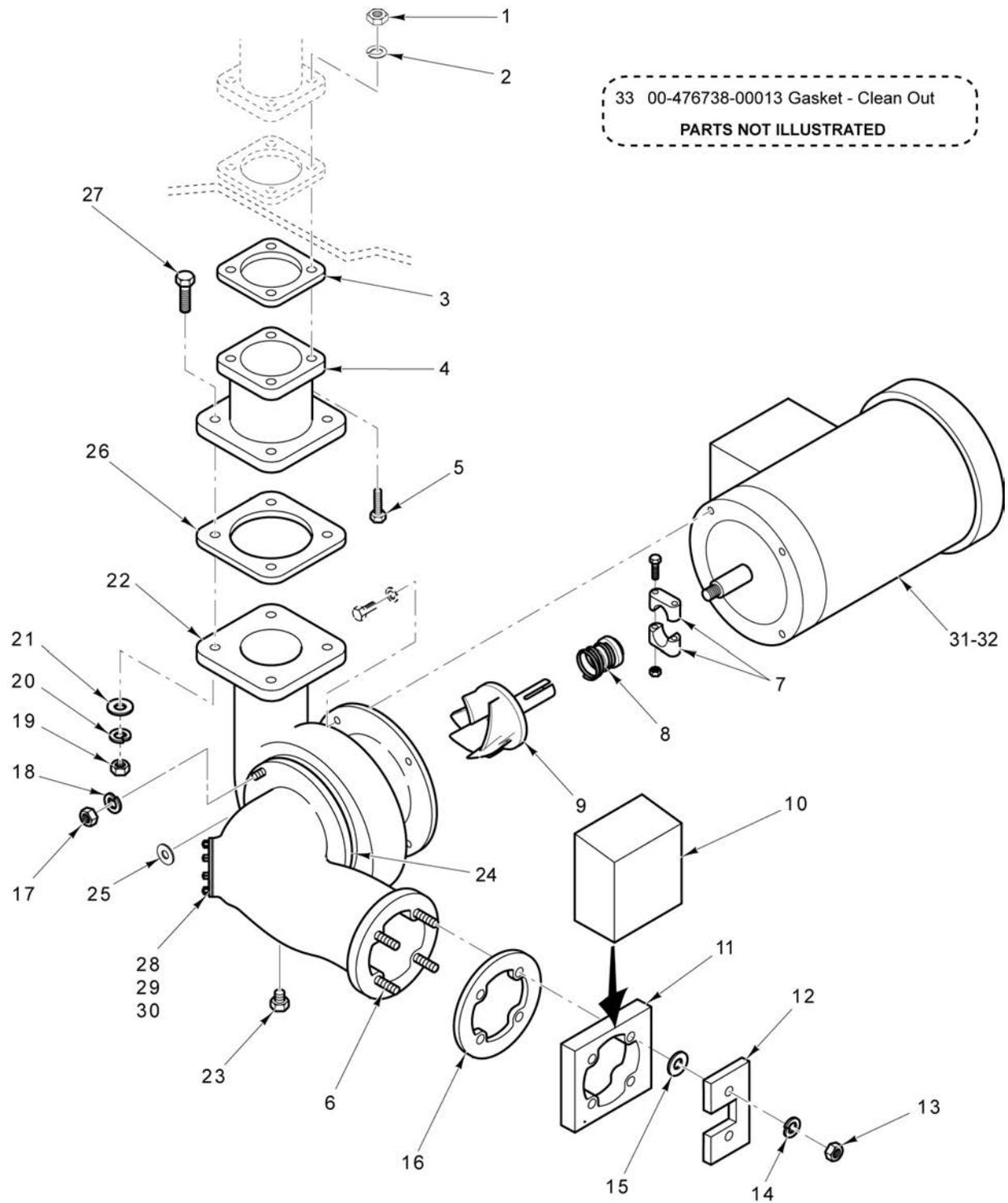
**WASH PUMP  
(PREVIOUS CONSTRUCTION)**

**WASH PUMP  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57145	PART NO.	NAME OF PART	AMT.
1	NS-015-11	Nut 5/16-18 Hex (SST).....	4
2	WL-006-22	Lockwasher 5/16 Light.....	4
*3	00-067036	Gasket - Adapter Plate.....	1
**4	00-813465	Gasket - Wash Duct.....	1
5	00-166258	Discharge.....	1
6	SC-041-18	Cap Screw 5/16-18 x 1-3/4 Hex Hd. (SST).....	4
7	00-811869	Gasket.....	1
8	00-163409-00001	Nut M10 Hex.....	1
9	00-813403	Impeller.....	1
10	KW-003-04	Key 1/8 x 1/2.....	1
11	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	6
12	00-163407-00002	Screw M8 x 25 mm Hex Hd.....	6
13	00-166686-00017	Motor (208/60/3).....	1
14	00-166686-00018	Motor (240/60/3).....	1
15	00-166686-00016	Motor (480/60/3).....	1
16	00-114696	Shaft Seal Assy. (5/8).....	1
17	00-163408-00001	Washer.....	1
18	00-811817	Shroud - Pump.....	1
19	00-813484	Ring - Clamping.....	1
20	00-163311	Plate - Mounting (Pump Intake Baffle).....	2
21	00-163409-00002	Nut M8 Hex.....	4
22	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
23	WS-017-21	Washer.....	4
24	00-811868	Gasket.....	1
25	00-163410	Plug 1/2.....	1
26	00-811870	Gasket.....	1
27	00-165034	Plate - Cover.....	1
28	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	4
29	WL-006-22	Lockwasher 5/16 Light.....	4
30	00-163407-00002	Screw M8 x 25 mm Hex Hd.....	4
31	NS-015-11	Nut 5/16-18 Hex (SST).....	4
32	WL-006-22	Lockwasher 5/16 Light.....	4
33	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	4
34	FP-028-46	Pipe Plug 1/4 Slotted Hd. (Brass).....	1
35	00-893854	Pet Cock (1/4).....	1
36	FP-040-08	Pipe 1/4 x 7/8 TBE (Brass).....	1
37	00-168438	Pump Shell.....	1
38	00-009934-00001	Gasket - Drain Flange.....	1
39	SC-041-18	Cap Screw 5/16-18 x 1-3/4 Hex Hd. (SST).....	4

\* Used on Machines Built Before 1/4/02

\*\* Used on Machines Built After 1/4/02

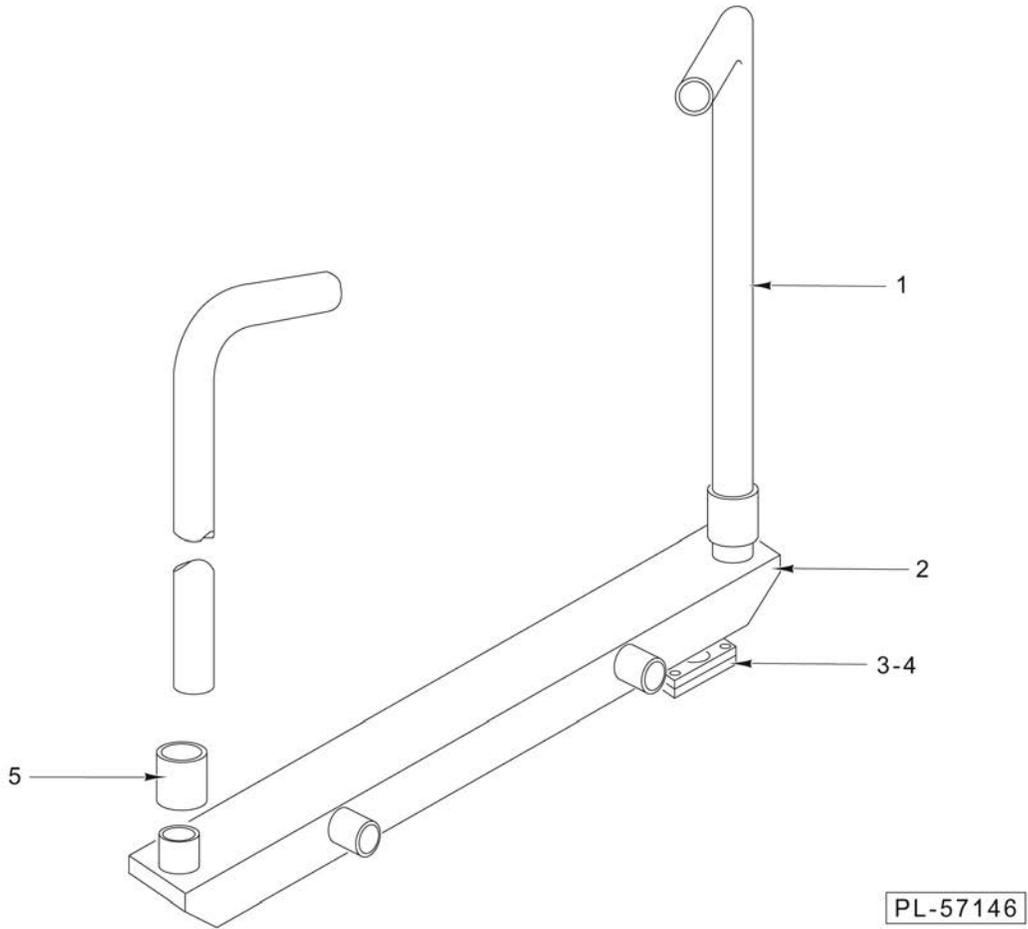


PL-58356

**WASH PUMP  
(CURRENT CONSTRUCTION)**

**WASH PUMP  
(CURRENT CONSTRUCTION)**

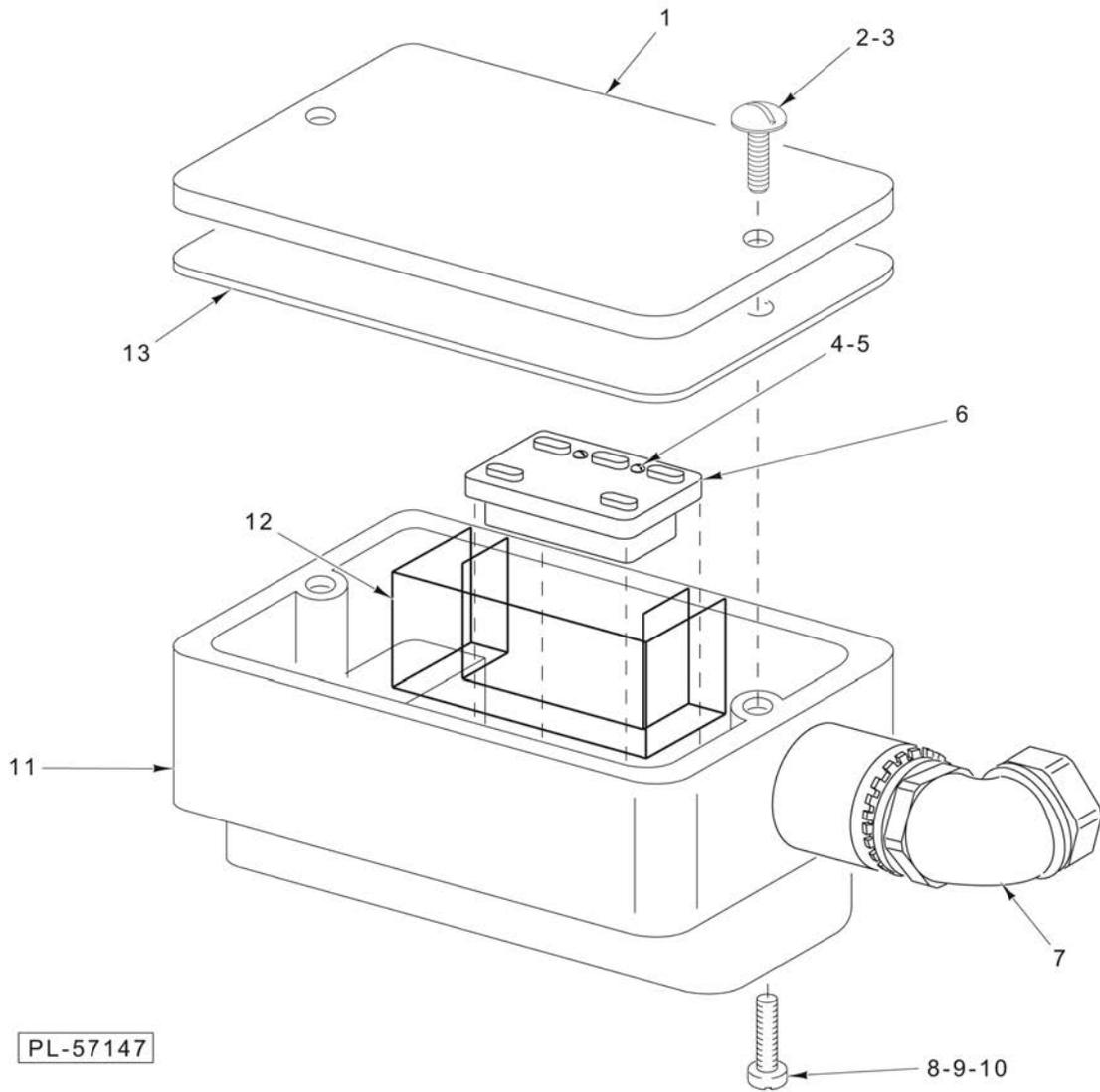
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-58356			
1	NS-015-11	Nut 5/16-18 Hex (SST).....	4
2	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	4
3	00-813465	Gasket - Wash Duct.....	1
4	00-918457	Flange - Pump/Motor Discharge.....	1
5	SC-041-18	Cap Screw 5/16-18 x 1-3/4 Hex Hd. (SST).....	4
6	00-602397	Stud - Screw.....	4
7	00-918472-00004	Clamp.....	1
8	00-918472-00002	Seal Assy.....	1
9	00-918472-00005	Impeller - Sleeve Assy.....	1
10	00-811817	Shroud - Pump.....	1
11	00-813484	Ring - Clamping.....	1
12	00-163311	Plate - Mounting (Pump Intake Baffle).....	2
13	NS-015-11	Nut 5/16-18 Hex (SST).....	4
14	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
15	WS-017-21	Washer.....	4
16	00-811868	Gasket.....	1
17	NS-015-11	Nut 5/16-18 Hex (SST).....	4
18	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
19	NS-015-11	Nut 5/16-18 Hex (SST).....	4
20	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
21	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	4
22	00-918472-00001	Shell - Pump Assy. (incl. pump housing & suction flange) (incl. Item 24 & Item 25) .....	1
23	FP-052-01	Pipe Plug 1/4 Sq. Hd. (SST).....	1
24	00-476738-00009	O-Ring - Suction Flange.....	1
25	00-476738-00008	Gasket - Drain.....	1
26	00-009934-00001	Gasket - Drain Flange.....	1
27	SC-041-18	Cap Screw 5/16-18 x 1-3/4 Hex Hd. (SST).....	4
28	00-476738-00013	Gasket - Clean Out.....	1
29	00-476738-00014	Plate - Cover (Clean Out).....	1
30	NS-015-01	Nut 1/4-20 Hex (SST).....	AR
31	00-918472-00003	Motor (208-230 / 460).....	1
32	00-918459	Pump & Motor Assy.....	1
33	00-476738-00013	Gasket - Clean Out.....	1



**WASH DUCT**

**WASH DUCT**

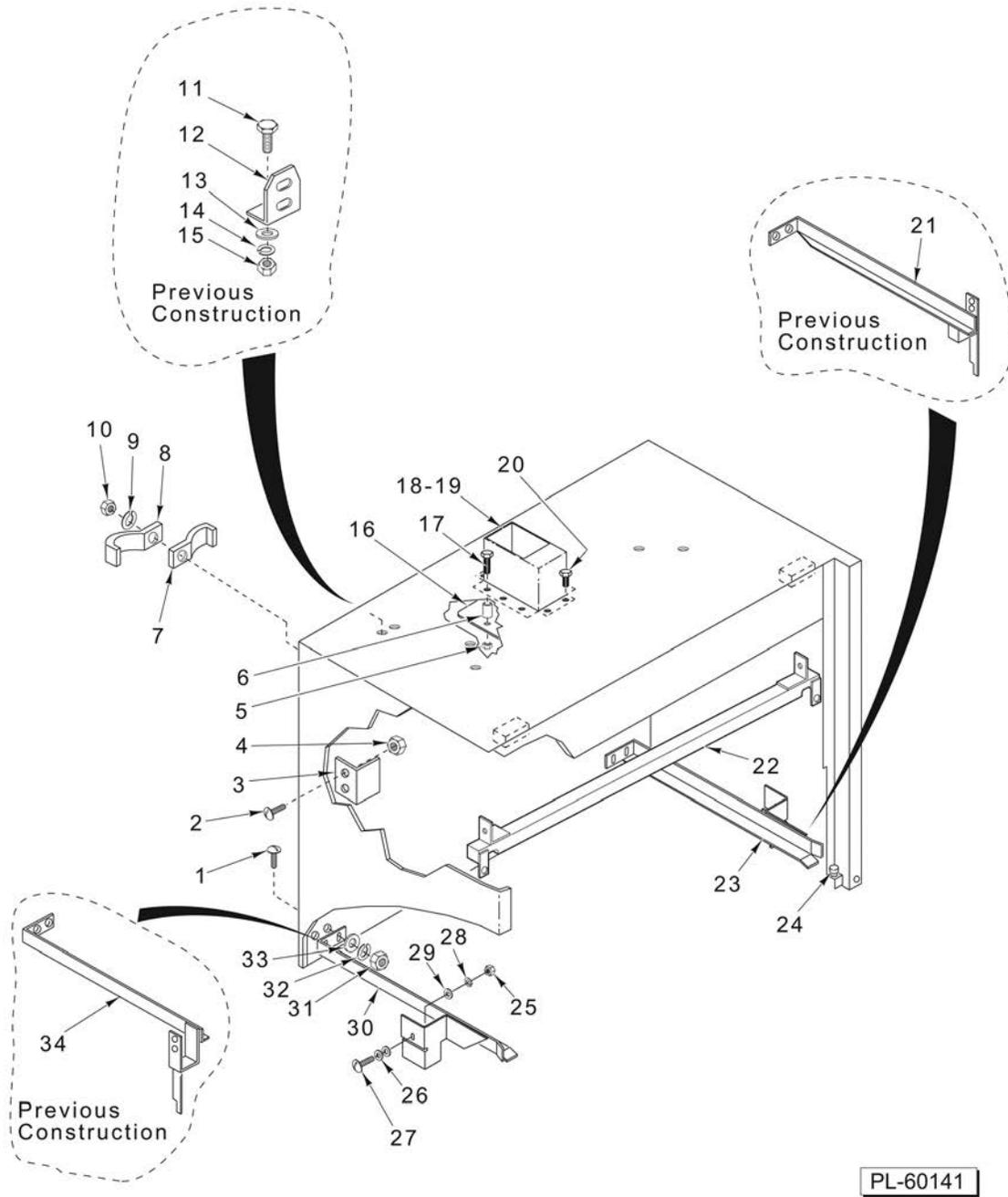
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57146			
1	00-163384-00002	Wash Pipe.....	2
2	00-811676	Wash Duct Assy.....	1
3	00-067036	Gasket - Adapter Plate (Used on Machines Built Before 1/4/02).....	1
4	00-813465	Gasket - Wash Duct (Used on Machines Built After 1/4/02).....	1
5	00-811682	Coupling.....	2



### DOOR INTERLOCK

**DOOR INTERLOCK**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57147			
1	00-436072	Cover - Housing.....	1
2	SC-120-35	Mach. Screw 8-32 x 3/8 Phil. Pan Hd. (SST).....	2
3	WL-006-02	Lockwasher #8 Helical (SST).....	2
4	SC-127-97	Mach. Screw 6-32 x 5/16 Phil. Pan Hd.....	2
5	WL-006-42	Lockwasher #6 Medium.....	2
6	00-436071	Retainer - Switch Weldment (Switch Included).....	1
7	FE-024-61	Connector 45 Deg. (Non-Metallic) Sealite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	2
8	SC-123-76	Mach. Screw 10-24 x 1/2 Phil. Pan Hd.....	2
9	WL-006-07	Lockwasher #10 Helical (SST).....	2
10	WS-029-79	Washer (SST).....	2
11	00-436069	Housing - Cycle Switch.....	1
12	00-811860	Barrier - Door Interlock.....	1
13	00-436073	Gasket - Housing.....	1
	00-812506-00018	Conduit.....	1

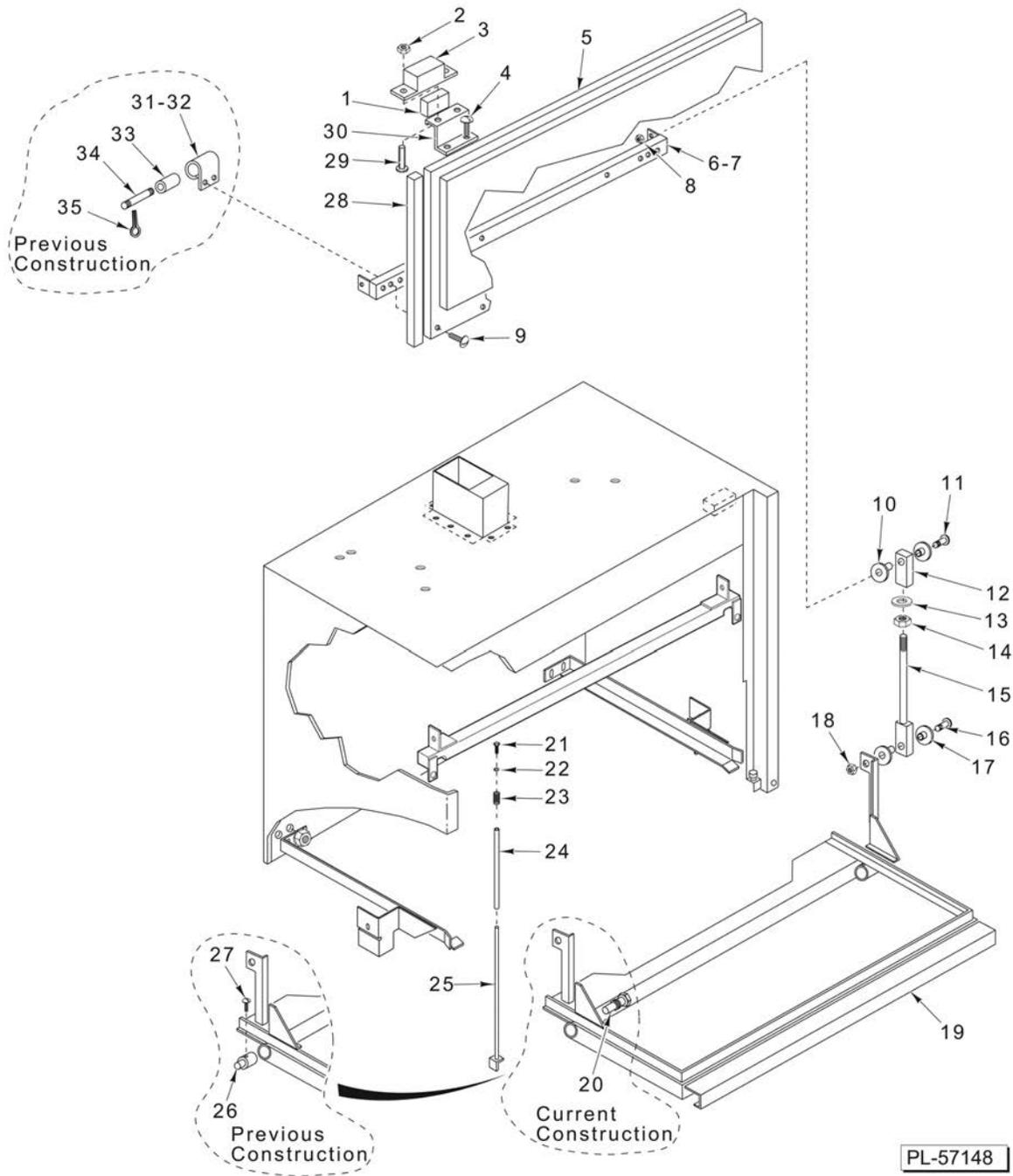


### CHAMBER AND TRACKS

**CHAMBER AND TRACKS**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60141			
1	SC-125-85	Mach. Screw 1/4-20 x 5/8 Phil. Truss Hd. (SST).....	4
2	SC-125-26	Mach. Screw 5/16-18 x 5/8 Phil. Truss Hd. (SST).....	4
3	00-811821	Bracket - Wash Pipe.....	2
4	NS-031-29	Stop Nut 5/16-18 Hex (SST).....	4
5	NS-031-21	Stop Nut 1/4-20 Hex (SST).....	10
6	00-812497	Spacer.....	4
7	FE-006-46	Clamp - Electric.....	1
8	FE-025-10	Clamp 1-1/4 (Use With Booster).....	1
9	WL-006-17	Lockwasher 1/4 Helical (SST).....	1
10	NS-015-01	Nut 1/4-20 Hex (SST).....	1
*11	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	2
*12	00-435974	Bracket - Fill Piping.....	1
*13	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	2
*14	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
*15	NS-015-11	Nut 5/16-18 Hex (SST).....	2
16	00-812501	Baffle.....	1
17	SC-041-08	Cap Screw 1/4-20 x 2 Hex Hd. (SST).....	4
18	00-812504	Stack - Vent.....	1
19	00-506151	Tape - Foam.....	AR
20	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	6
21	00-163245	Track Assy. (RH) (Previous Construction).....	1
22	00-474262	Support - Upper Door Weldment.....	1
23	00-814333	Track Assy. - Rack (RH) (Current Construction).....	1
24	00-163247	Bushing - Threaded.....	2
25	NS-015-01	Nut 1/4-20 Hex (SST).....	4
26	WS-003-47	Washer (SST).....	8
27	SC-125-85	Mach. Screw 1/4-20 x 5/8 Phil. Truss Hd. (SST).....	4
28	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
29	WS-017-06	Washer (SST).....	4
30	00-814334	Track Assy. - Rack (LH) (Current Construction).....	1
31	NS-015-01	Nut 1/4-20 Hex (SST).....	4
32	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
33	WS-017-06	Washer (SST).....	4
34	00-163246	Track Assy. (LH) (Previous Construction).....	1

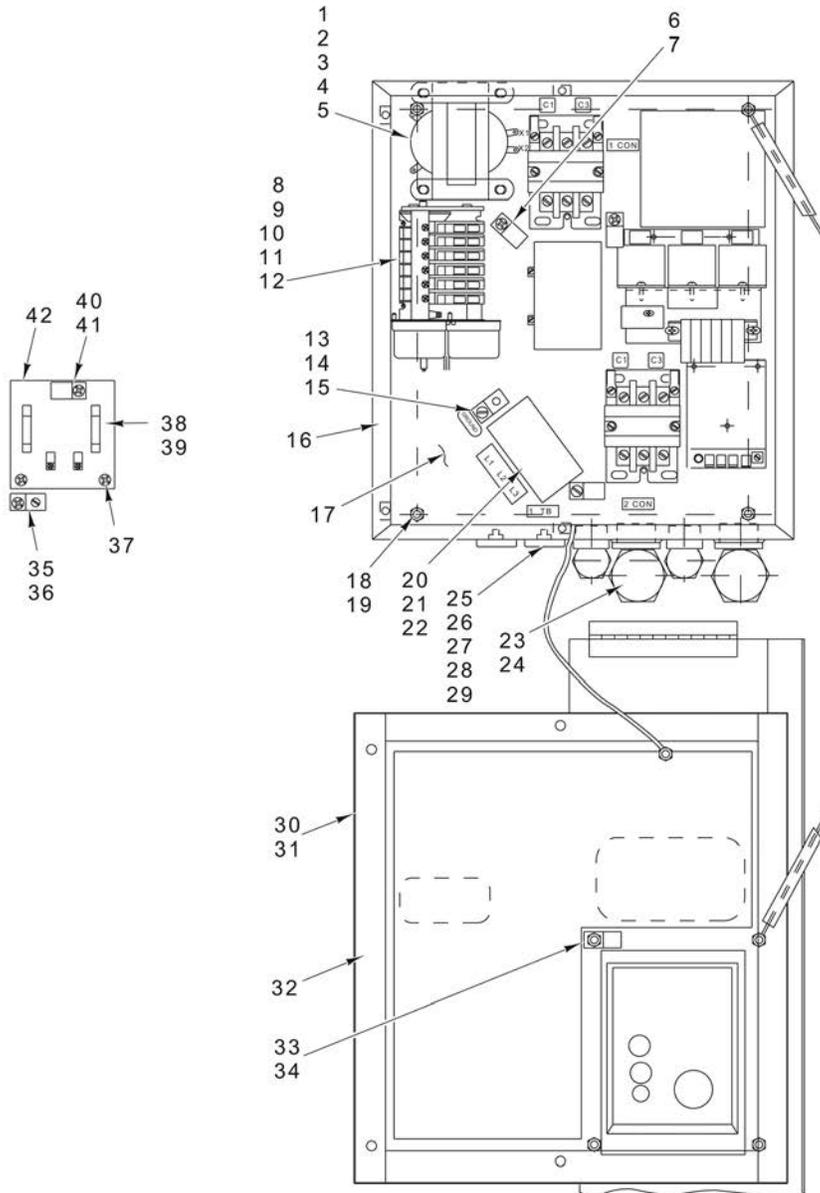
\* (Not required on Machines with Serial Numbers 851081922 or above.)



**DOORS**

**DOORS**

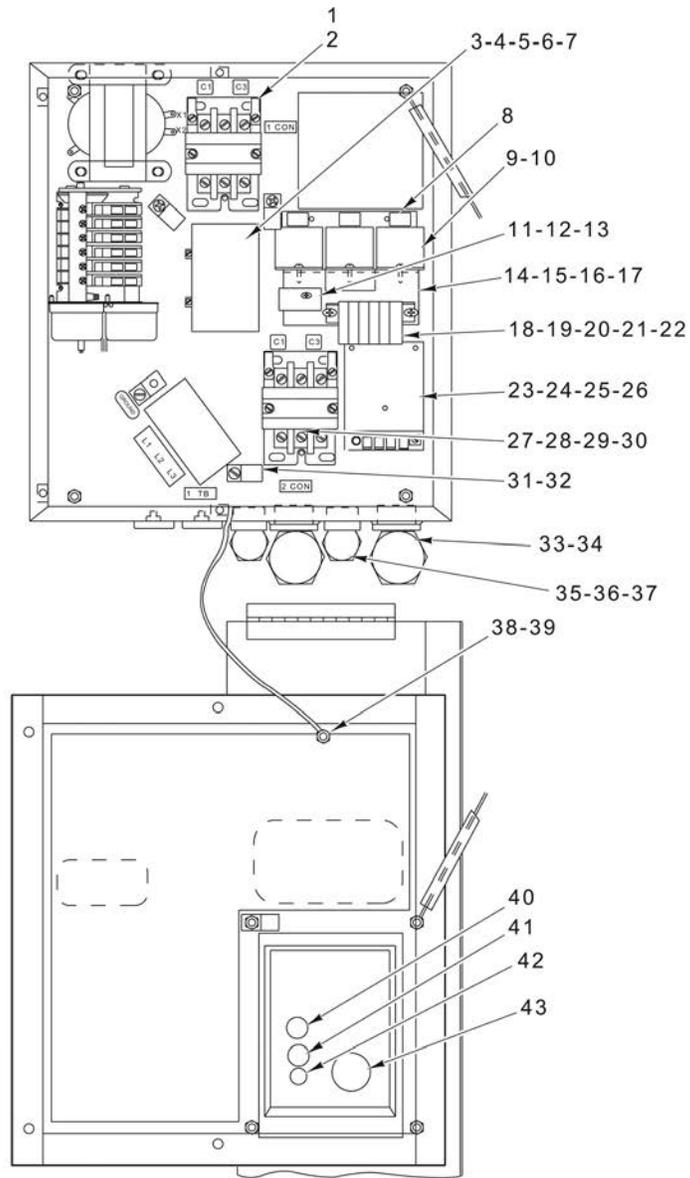
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57148			
1	00-436091	Magnet.....	1
2	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
3	00-435950	Retainer - Magnet.....	1
4	SC-066-05	Mach. Screw 10-24 x 3/8 Phil. Truss Hd. (SST).....	2
5	00-163285	Upper Door Assy.....	1
6	00-163193	Support - Upper Door (Previous Construction) (Not Shown).....	1
7	00-474262	Support - Upper Door Weldment (Current Construction).....	1
8	NS-031-21	Stop Nut 1/4-20 Hex (SST).....	2
9	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	6
10	00-163289	Bearing - Bushing.....	4
11	00-163287	Pin - Hinge.....	2
12	00-163185	Link.....	4
13	WL-006-27	Lockwasher 3/8 Helical (SST).....	2
14	NS-015-13	Nut 3/8-16 Hex (SST).....	2
15	00-163286	Rod - Door Lift.....	2
16	00-163287	Pin - Hinge.....	2
17	00-163289	Bearing - Bushing.....	4
18	NS-031-21	Stop Nut 1/4-20 Hex (SST).....	2
19	00-811684	Lower Door Assy.....	1
20	00-812799	Pin - Door Hinge (Current Construction).....	2
21	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	2
22	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
23	00-436366	Spring - Counterbalance.....	2
24	00-436367	Tube - Spring.....	2
25	00-436358	Support - Spring Weldment.....	1
26	00-811664	Pin (Previous Construction).....	2
27	SC-022-32	Mach. Screw 1/4-20 x 1/2 Slotted Flat Hd. (SST) (Previous Construction).....	2
28	00-112378-00034	Slide - Door.....	2
29	SC-127-97	Mach. Screw 6-32 x 5/16 Phil. Pan Hd.....	2
30	00-811867-00001	Door Magnet Bracket Assy.....	1
31	00-378591	Spring - Door (Previous Construction).....	2
32	SC-021-14	Mach. Screw 8-32 x 3/8 Slotted Rd. Hd. (SST) (Previous Construction).....	4
33	00-299109-00002	Roller (Previous Construction).....	2
34	00-163394	Pin - Coil (Previous Construction).....	2
35	PC-005-11	Cotter Pin 3/32 (Previous Construction).....	4
	00-812813	Door Assy. (Incls. Items 19 & 20).....	1



**CONTROL BOX  
(VIEW 1)  
(PREVIOUS CONSTRUCTION)**

**CONTROL BOX  
(VIEW 1)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-57149	PART NO.	NAME OF PART	AMT.
1	00-223452-00001	Transformer (208/60/3).....	1
2	00-223450-00001	Transformer (240/60/3 & 480/60/3).....	1
3	00-294500-026-1	Transformer (75VA, 60 Hz.) (Gas Heat).....	1
4	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	4
5	WL-014-07	Lockwasher #10 External Shakeproof (SST).....	4
6	00-294677-00004	Clamp - Wire (1 I.D.).....	2
7	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	2
8	00-812410	Timer.....	1
9	SC-093-04	Mach. Screw 8-32 x 1/2 Phil. Pan Hd. (SST).....	4
10	WS-019-06	Washer.....	4
11	WL-003-12	Lockwasher #8 Helical.....	4
12	00-087711-00218	Switch - Timer.....	6
13	00-118544-00002	Lug - Grounding.....	1
14	SD-035-77	Self-Tapping Screw 1/4-20 x 3/8 Phil. Pan Hd., Type TT.....	1
15	WL-007-15	Lockwasher 1/4 External Shakeproof.....	1
16	00-811840	Box - Control.....	1
17	00-811823	Plate - Base.....	1
18	WL-014-07	Lockwasher #10 External Shakeproof (SST).....	4
19	NS-011-18	Nut 10-24 Hex (SST).....	8
20	00-294325-004-1	Terminal Block.....	1
21	SC-012-36	Mach. Screw 10-24 x 3/4 Slotted Fil. Hd.....	2
22	WL-003-20	Lockwasher #10 Light.....	2
23	FE-023-26	Fitting - Conduit (Elect/Steam/Gas).....	1
24	FE-024-67	Connector 90 Deg. (Non-Metallic) Sealrite (1 Male Thd. x 1 Flex. Cnd.) (With Electric Heat Booster).....	1
25	00-119244	Cap & Stud Assy.....	AR
26	00-119254	Retainer - Cap & Stud.....	AR
27	00-067500-00031	O-Ring.....	AR
28	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
29	NS-015-01	Nut 1/4-20 Hex (SST).....	2
30	00-163158	Lid - Control Box.....	1
31	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	4
32	00-526409	Tape - Foam 1/8 In. x 1 In. x 25 Ft. Roll.....	AR
33	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
34	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	1
35	00-118544-00001	Lug - Solderless.....	1
36	SD-034-59	Self-Tapping Screw 10-32 x 3/8 Phil. Pan Hd., Type T.....	1
37	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	2
38	FE-015-02	Fuse (250 V., 2.5 Amp.) (208/240 V.) (Time Delay).....	2
39	FE-022-52	Fuse (500 V., 1.6 Amp.) (480 V.) (Time Delay).....	2
40	00-294677-00002	Clamp - Wire (1/2 I.D.).....	1
41	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	1
42	00-294488	Board - Terminal.....	1

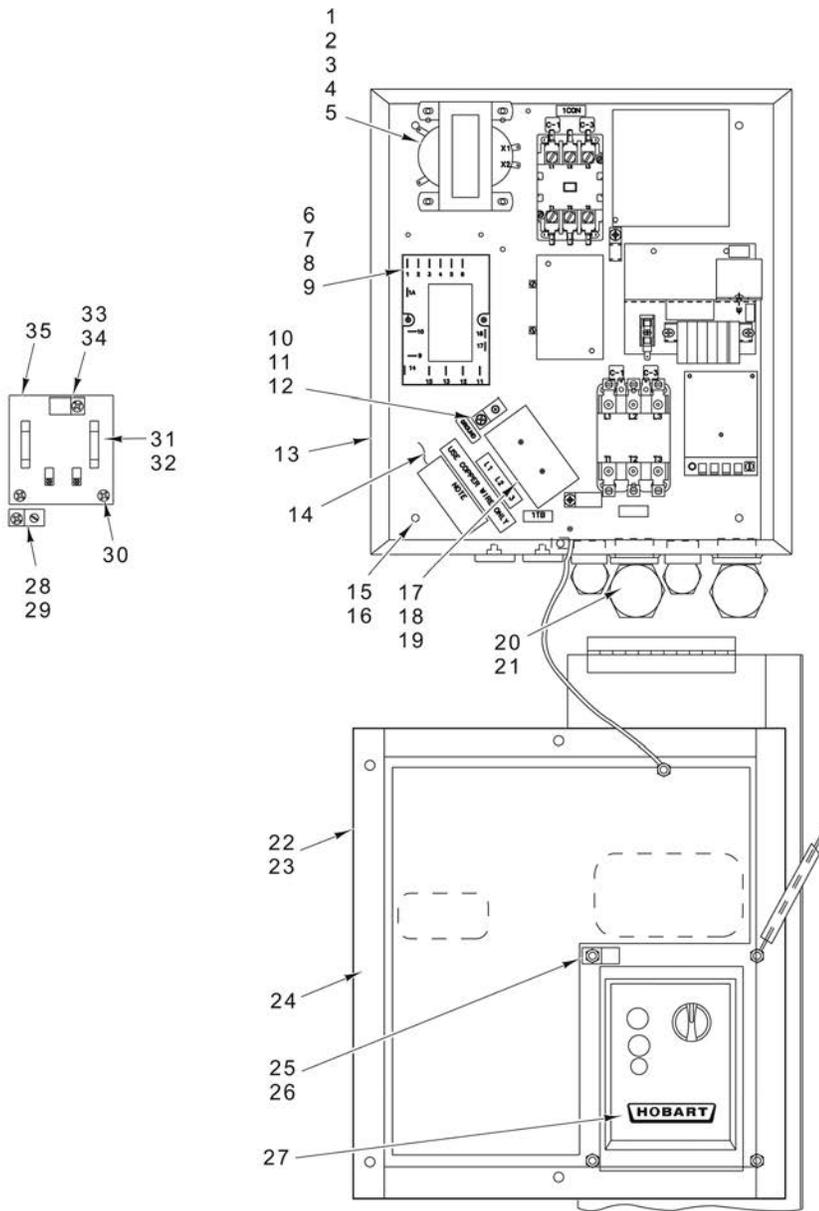


PL-60124

**CONTROL BOX  
(VIEW 2)  
(PREVIOUS CONSTRUCTION)**

**CONTROL BOX  
(VIEW 2)  
(PREVIOUS CONSTRUCTION)**

ILLUS. PL-60124	PART NO.	NAME OF PART	AMT.
1	00-087713-080-2	Contactora (480 V., 60 Hz., 3 Ph.) (30 Amp.) (3-Pole).....	1
2	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	2
3	00-294687-00027	Heater - Overload (208 V.) (K58).....	3
4	00-294687-00025	Heater - Overload (240 V.) (K56).....	3
5	00-294687-00016	Heater - Overload (480 V.) (K41).....	3
6	00-088196-009-1	Relay - Thermal Overload (3 Ph.).....	1
7	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	2
8	00-811805	Bracket - Relay.....	1
9	00-087714-020-2	Relay (3.P.D.T.).....	3
10	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	7
11	00-294436-00003	Block - Fuse (1.5 Amp.).....	1
12	FE-022-39	Fuse (250 V., 1.5 Amp.).....	1
13	FE-021-19	Fuse (3.2 Amp., 250 V.).....	1
14	00-811804-00002	Base Plate Bracket Assy. (All Voltages, Gas Heat).....	1
15	00-811804	Base Plate Brkt. Assy. (Incls. Items 8 thru 12 & 18 thru 22) (Steam or Electric).....	1
16	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	2
17	WL-014-03	Lockwasher #6 External (SST).....	2
18	00-102064-00028	Channel - Mounting.....	1
19	00-102057	Block - Terminal.....	6
20	00-102058	End - Barrier.....	1
21	00-101611	Clip - Retaining.....	2
22	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	2
23	00-475811	Board - Temperature Control.....	1
24	SD-038-02	Self-Tapping Screw 6-20 x 5/8 Phil. Pan Hd., Type B.....	3
25	WS-028-12	Washer (Fiber).....	1
26	00-476653	Spacer - Circuit Board.....	4
27	00-918322	Contactora (40 Amp., 3-Pole).....	1
28	00-087714-020-2	Relay (3.P.D.T.).....	1
29	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B (Use With Item 27).....	2
30	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B (Use With Item 28).....	2
31	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
32	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	1
33	FE-008-12	Gasket.....	2
34	FE-008-33	Connector 90 Deg. (Sealtite) (1 Male Thd. x 1 Flex).....	2
35	FE-008-10	1/2 Gasket Assy.....	3
36	FE-007-07	Connector 90 Deg. Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	3
37	FE-007-05	Connector 45 Deg. Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
38	WL-007-12	Lockwasher #10 External Shakeproof.....	2
39	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
40	00-811807-00001	Light - Pilot (White).....	1
41	00-811807-00002	Light - Pilot (Green).....	1
42	00-811830	Switch - Start.....	1
43	00-811806	Switch - Selector.....	1

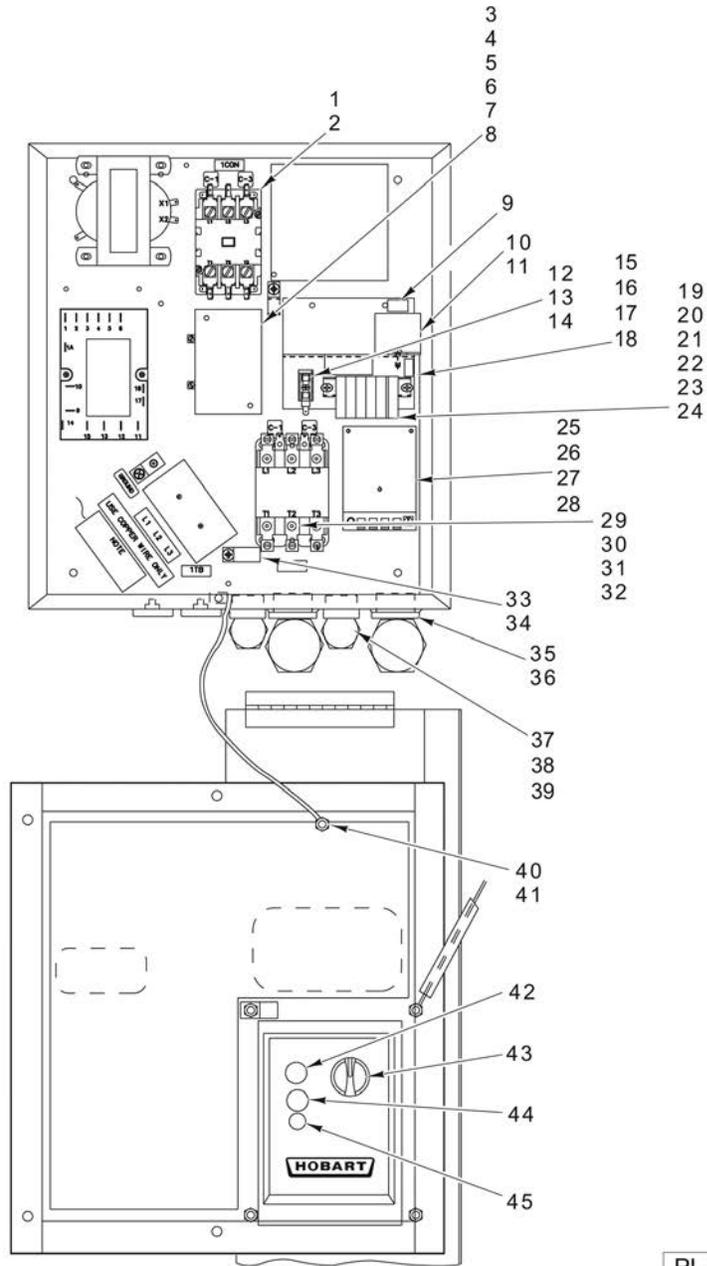


PL-60125

**CONTROL BOX  
(VIEW 1)  
(CURRENT CONSTRUCTION)**

**CONTROL BOX  
(VIEW 1)  
(CURRENT CONSTRUCTION)**

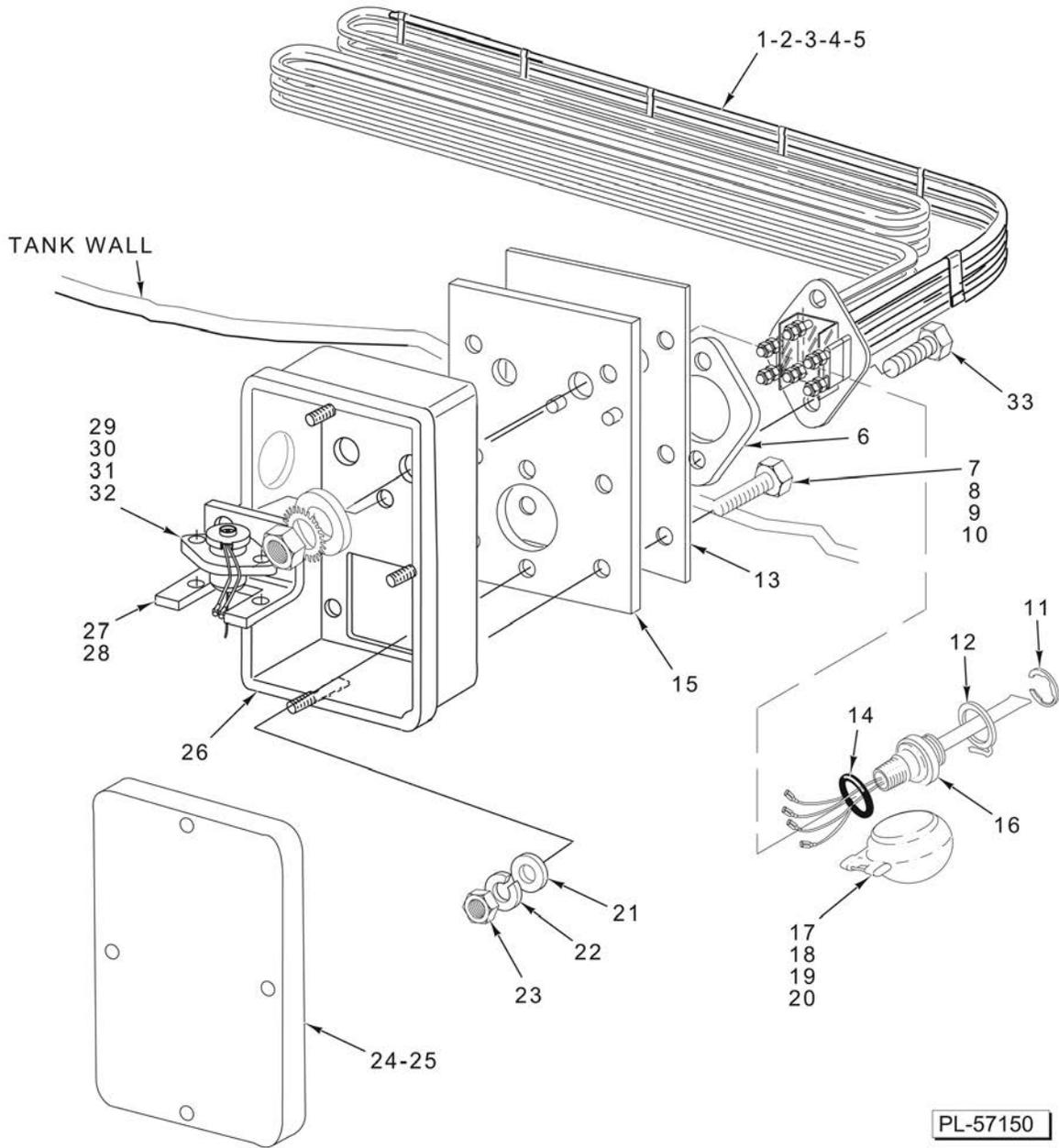
ILLUS. PL-60125	PART NO.	NAME OF PART	AMT.
1	00-223452-00001	Transformer (208/60/3).....	1
2	00-223450-00001	Transformer (240/60/3 & 480/60/3).....	1
3	00-294500-026-1	Transformer (75VA, 60 Hz.) (Gas Heat).....	1
4	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	5
5	WL-014-07	Lockwasher #10 External Shakeproof (SST).....	4
6	00-918130	Timer (Previous Construction) (S/N 851058011 to 851066515).....	1
7	00-814344	Timer (Current Construction) (After S/N 851066515).....	1
8	00-087711-00218	Switch - Timer.....	6
9	SD-037-21	Self-Tapping Screw 8-32 x 1 Fil. Phil. Hd., Type F.....	2
10	00-118544-00002	Lug - Grounding.....	1
11	SD-035-77	Self-Tapping Screw 1/4-20 x 3/8 Phil. Pan Hd., Type TT.....	1
12	WL-007-15	Lockwasher 1/4 External Shakeproof.....	1
13	00-811840	Box - Control.....	1
14	00-811823	Plate - Base.....	1
15	WL-014-07	Lockwasher #10 External Shakeproof (SST).....	4
16	NS-011-18	Nut 10-24 Hex (SST).....	8
17	00-294325-004-1	Terminal Block.....	1
18	SC-012-36	Mach. Screw 10-24 x 3/4 Slotted Fil. Hd.....	2
19	WL-003-20	Lockwasher #10 Light.....	2
20	FE-023-26	Fitting - Conduit (Elect/Steam/Gas).....	1
21	FE-024-67	Connector 90 Deg. (Non-Metallic) Sealtite (1 Male Thd. x 1 Flex. Cnd.) (With Electric Heat Booster).....	1
22	00-163158	Lid - Control Box.....	1
23	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	4
24	00-526409	Tape - Foam 1/8 In. x 1 In. x 25 Ft. Roll.....	AR
25	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
26	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	1
27	00-811835	Label - Control Panel Logo.....	1
28	00-118544-00001	Lug - Solderless.....	1
29	SD-034-59	Self-Tapping Screw 10-32 x 3/8 Phil. Pan Hd., Type T.....	1
30	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	2
31	FE-015-02	Fuse (250 V., 2.5 Amp.) (208/240 V.) (Time Delay).....	2
32	FE-022-52	Fuse (500 V., 1.6 Amp.) (480 V.) (Time Delay).....	2
33	00-294677-00002	Clamp - Wire (1/2 I.D.).....	1
34	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	1
35	00-294488	Board - Terminal.....	1



**CONTROL BOX  
(VIEW 2)  
(CURRENT CONSTRUCTION)**

**CONTROL BOX  
(VIEW 2)  
(CURRENT CONSTRUCTION)**

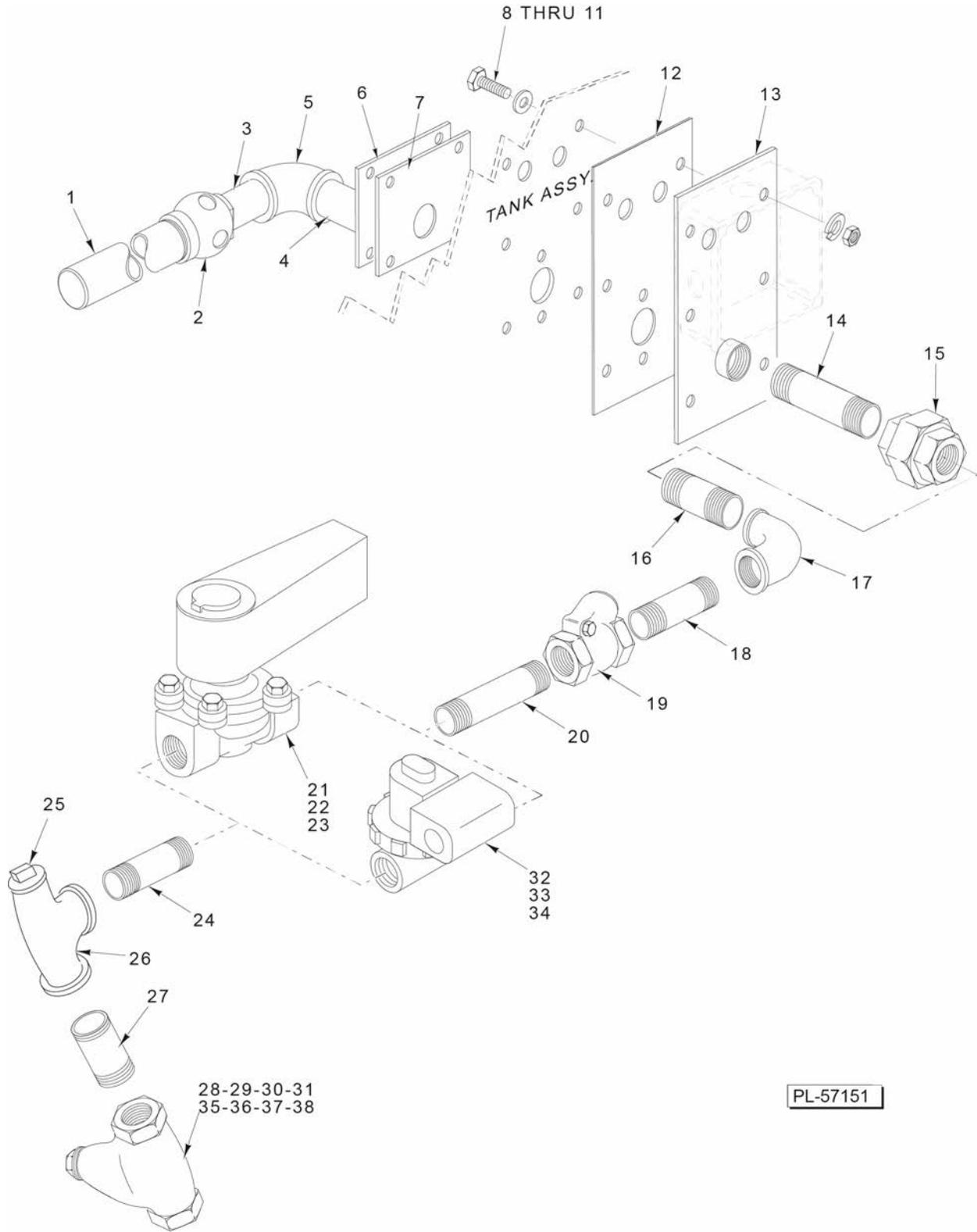
ILLUS. PL-58357	PART NO.	NAME OF PART	AMT.
1	00-087713-040-2	Contactora (30 Amp., 3-Pole).....	1
2	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	2
3	00-294687-00023	Heater - Overload (208 V.) (K54).....	3
4	00-294687-00023	Heater - Overload (240 V.) (K54).....	3
5	00-294687-00015	Heater - Overload (480 V.) (K39).....	3
6	00-088196-009-1	Relay - Thermal Overload (3 Ph.).....	1
7	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	2
8	00-294687-00023	Element - Overload (208-240V.) (K54).....	3
9	00-811805	Bracket - Relay.....	1
10	00-087714-020-2	Relay (3.P.D.T.).....	3
11	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	7
12	00-294436-00003	Block - Fuse (1.5 Amp.).....	1
13	FE-022-39	Fuse (1.5 Amp.) (250 V.).....	1
14	FE-021-19	Fuse (3.2 Amp., 250 V.).....	1
15	00-811804-00002	Base Plate Bracket Assy. (All Voltages, Gas Heat).....	1
16	00-811804	Base Plate Brkt. Assy. (Incls. Items 9 thru 13 & 19 thru 24) (Steam or Electric).....	1
17	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	2
18	WL-014-03	Lockwasher #6 External (SST).....	2
19	00-102064-00028	Channel - Mounting.....	1
20	00-102057	Block - Terminal.....	6
21	00-103349	Jumper - Plug-In.....	2
22	00-102058	End - Barrier.....	1
23	00-101611	Clip - Retaining.....	2
24	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	2
25	00-475458-00001	Board Assy. - Temperature Control.....	1
26	SD-038-02	Self-Tapping Screw 6-20 x 5/8 Phil. Pan Hd., Type B.....	3
27	WS-028-12	Washer (Fiber).....	1
28	00-476653	Spacer - Circuit Board.....	4
29	00-918322	Contactora (40 Amp., 3-Pole).....	1
30	00-087714-020-2	Relay (3.P.D.T.).....	1
31	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B (Use With Item 29).....	2
32	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B (Use With Item 30).....	2
33	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
34	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	1
35	FE-008-12	Gasket.....	2
36	FE-008-33	Connector 90 Deg. Sealtite (1 Male Thd. x 1 Flex).....	2
37	FE-008-10	1/2 Gasket Assy.....	3
38	FE-007-07	Connector 90 Deg. Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	3
39	FE-007-05	Connector 45 Deg. Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
40	WL-007-12	Lockwasher #10 External Shakeproof.....	2
41	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
42	00-811807-00001	Light - Pilot (White).....	1
43	00-918134	Switch - Selector.....	1
44	00-811807-00002	Light - Pilot (Green).....	1
45	00-811830	Switch - Start.....	1



### ELECTRIC HEAT

**ELECTRIC HEAT**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57150			
1	00-950696	Insulator - Terminal (Above 250 V.).....	1
2	00-436907-00001	Heater - Tank Electric (208 V., 60 Hz./200 V., 50 Hz., 3 Ph.).....	1
3	00-436907-00002	Heater - Tank Electric (240 V., 50/60 Hz., 3 Ph.).....	1
4	00-436907-00005	Heater - Tank Electric (480 V., 60 Hz., 3 Ph.).....	1
5	00-436907-00007	Heater - Tank Electric (600 V.).....	1
6	00-293598	Gasket - Heater Mounting.....	1
7	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	6
8	WS-029-05	Washer 0.328 x 0.750 x 0.062 (SST).....	12
9	WL-006-23	Lockwasher 5/16 Helical (SST).....	6
10	NS-015-11	Nut 5/16-18 Hex (SST).....	6
11	RR-010-13	Retaining Ring.....	1
12	00-112467	Retainer - Float.....	1
13	00-271109	Gasket - Mounting.....	1
14	00-067500-00072	O-Ring.....	1
15	00-271118-00001	Plate - Mounting.....	1
16	00-271621	Switch & Probe Assy. (4-Wire) (Long).....	1
17	00-122674	Float Assy.....	1
18	WS-010-40	Washer - Thrust.....	1
19	WL-014-31	Lockwasher 1/2 External Shakeproof (SST).....	1
20	NS-018-28	Jam Nut 1/2-20 Hex (SST).....	1
21	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	2
22	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
23	NS-015-11	Nut 5/16-18 Hex (SST).....	2
24	00-474574-00002	Lid Assy.....	1
25	NS-031-15	Stop Nut 10-24 Hex (SST).....	4
26	00-474512-00001	Box - Electric Heat.....	1
27	00-271122	Bracket - Thermostat.....	1
28	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
29	00-293946	Sleeve - Lead.....	1
30	00-271123	Protector - High Limit.....	1
31	SC-127-26	Mach. Screw 6-32 x 3/8 Phil. Rd. Hd. (SST).....	2
32	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
33	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
	00-294357-00001	Housing - Connector (Nat).....	1
	00-294357-00002	Housing - Connector (Black).....	1
	00-186091	Probe & Switch Assy. (Incls. Items 11, 12, 16, & 17).....	1

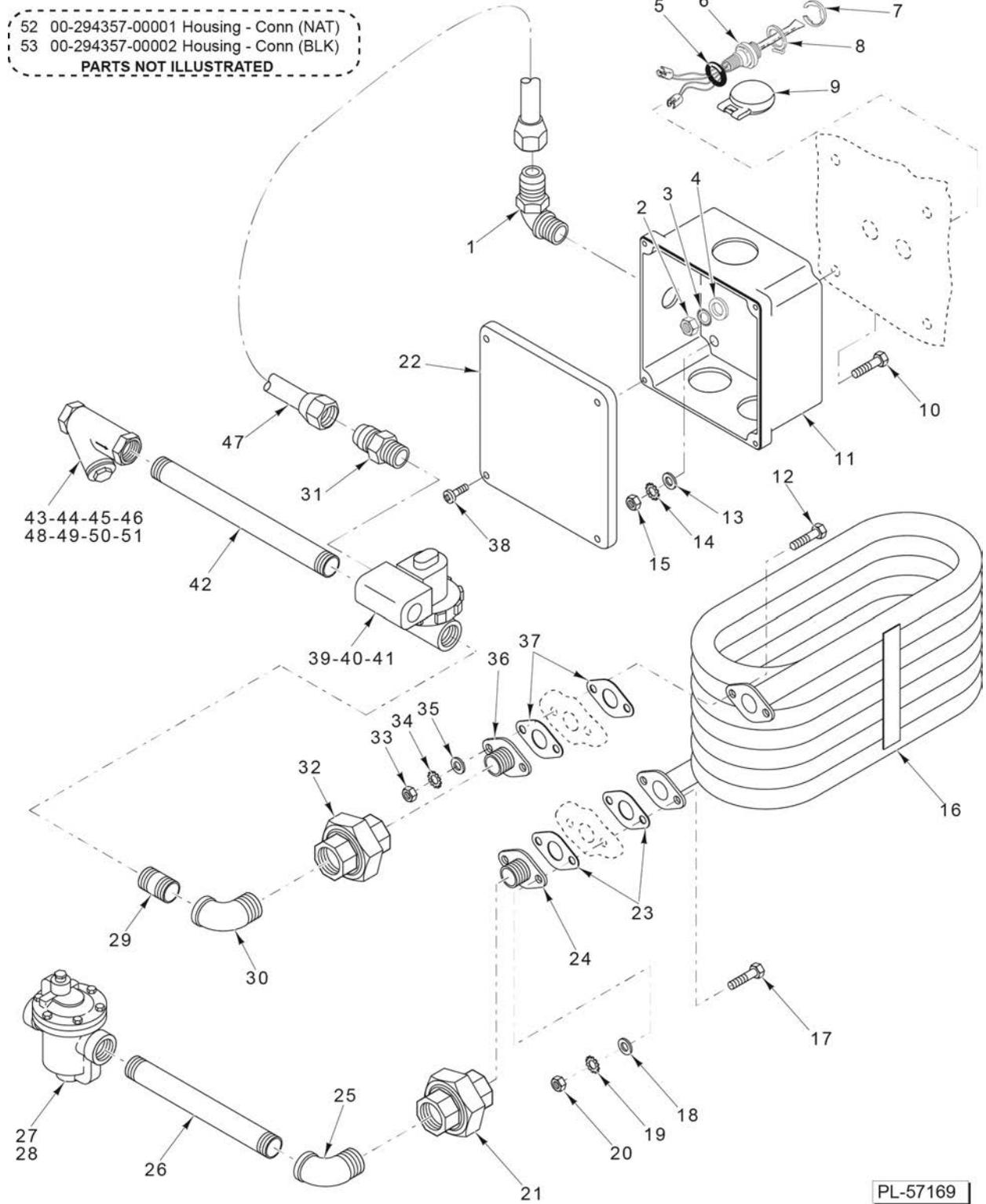


**STEAM INJECTOR HEAT**

**STEAM INJECTOR HEAT**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57151			
1	FP-085-05	Pipe 1 x 10-1/2 STOE (SST).....	1
2	00-288671	Silent Water Heater Assy.....	1
3	FP-054-27	Pipe 3/4 x 1-3/8 TBE (SST).....	1
4	FP-054-27	Pipe 3/4 x 1-3/8 TBE (SST).....	1
5	FP-077-29	Elbow 3/4 x 45 Deg. (SST).....	1
6	00-435027	Plate.....	1
7	00-435026	Gasket.....	1
8	SC-041-15	Cap Screw 5/16-18 x 1-1/4 Hex Hd. (SST).....	6
9	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	12
10	WL-006-23	Lockwasher 5/16 Helical (SST).....	6
11	NS-015-11	Nut 5/16-18 Hex (SST).....	6
12	00-271109	Gasket - Mounting.....	1
13	00-271108	Plate - Mounting.....	1
14	FP-036-05	Pipe 3/4 x 3 TBE.....	1
15	FP-022-17	Union 3/4 (Grd. Seat).....	1
16	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
17	FP-013-22	Elbow Pipe 3/4 x 90 Deg.....	1
18	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
19	00-074696	Check Valve (3/4).....	1
20	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
21	00-270329-00001	Valve - Solenoid 3/4 (Incls. Items 22 & 23) (Asco).....	1
22	00-270318-00001	Coil - Solenoid Valve (120 V.) (Asco).....	1
23	00-270336	Service Kit - Solenoid Valve (Asco).....	1
24	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
25	FP-028-06	Pipe Plug 1/4 Sq. Hd.....	1
26	FP-019-79	Tee 3/4 x 1/4 x 3/4 Reducing.....	1
27	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
*28	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) (Incls. Items 29, 30, & 31) (Alternate to Item 35) .....	1
29	00-186923	Plug - Branch.....	1
30	00-186924	Gasket - Branch Plug.....	1
31	00-186925	Screen - Line Strainer.....	1
32	00-892004-00002	Valve - Solenoid (3/4) (Parker).....	1
33	00-892363-00002	Coil - Solenoid Valve (110 - 120 V.) (Parker).....	1
34	00-892072	Kit - 3/4 In. Valve Service (Parker).....	1
*35	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 36, 37, & 38) (Alternate to Item 28).....	1
36	00-749802-00001	Cap.....	1
37	00-749802-00002	Gasket.....	1
38	00-749802-00003	Screen (80 Mesh).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.

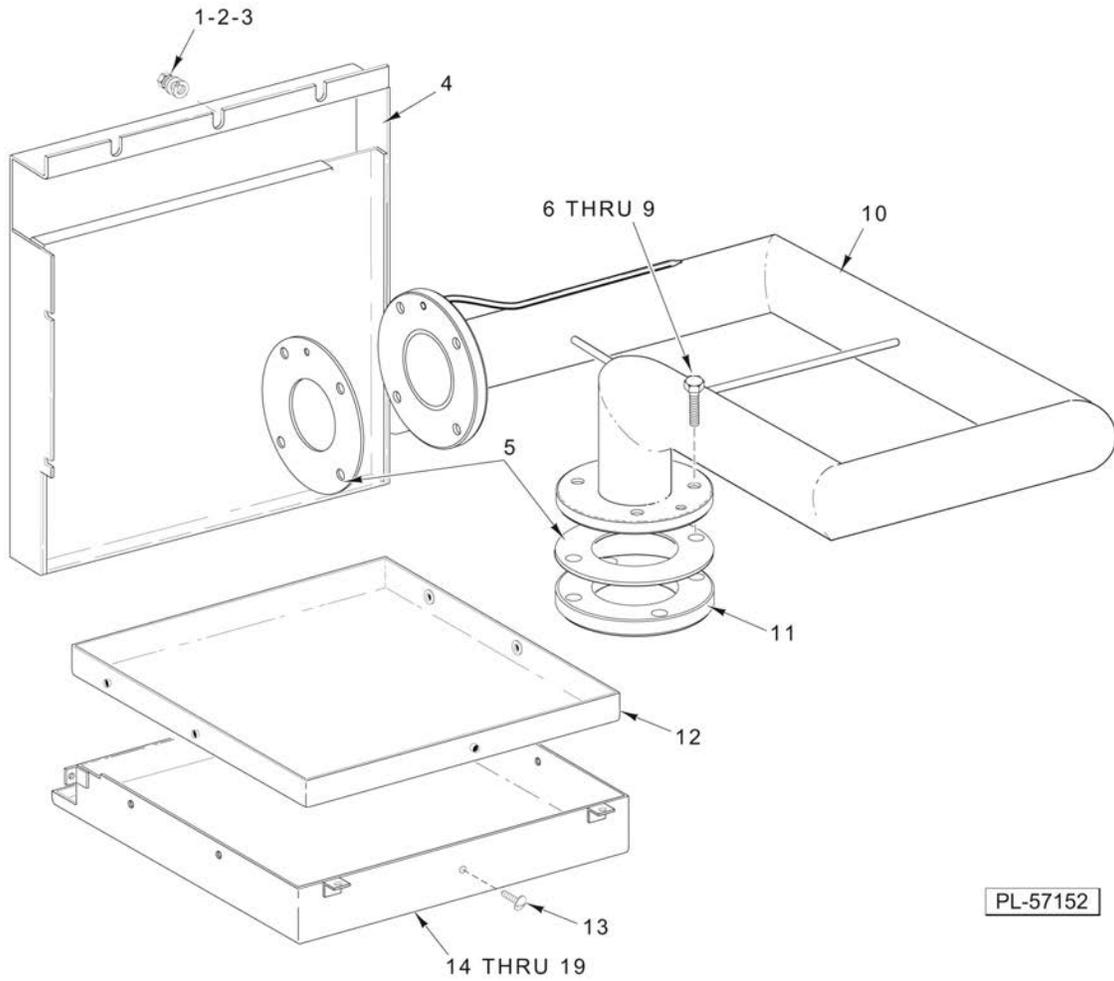


**STEAM COIL HEAT**

**STEAM COIL HEAT**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57169			
1	FE-024-65	Connector 90 Deg. (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
2	NS-018-28	Jam Nut 1/2-20 Hex (SST).....	AR
3	WL-014-31	Lockwasher 1/2 External Shakeproof (SST).....	AR
4	WS-010-40	Washer - Thrust.....	AR
5	00-067500-00072	O-Ring.....	1
6	00-186091	Probe & Switch Assy. (4 Wire) (Temp. & Water Level) (Incls. Items 7, 8, & 9).....	1
7	RR-010-13	Retaining Ring.....	1
8	00-112467	Retainer - Float.....	1
9	00-122674	Float Assy.....	1
10	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	4
11	00-271112-00001	Box - Steam Heat.....	1
12	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
13	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	8
14	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
15	NS-015-11	Nut 5/16-18 Hex (SST).....	4
16	00-812757	Coil - Steam.....	1
17	SC-041-13	Cap Screw 5/16-18 x 1 Hex Hd. (SST).....	2
18	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	2
19	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
20	NS-015-11	Nut 5/16-18 Hex (SST).....	2
21	FP-022-17	Union 3/4 (Grd. Seat).....	1
22	00-288465	Lid & Gasket Assy.....	1
23	00-435762	Gasket.....	2
24	00-812761	Flange - Pipe.....	1
25	FP-078-86	Elbow - Street 3/4 x 90 Deg.....	1
26	FP-059-65	Pipe 3/4 x 6 TBE.....	1
27	00-118316	Steam Trap (0-20 PSI).....	AR
28	00-118317	Steam Trap (21-50 PSI).....	1
29	FP-036-92	Pipe 3/4 x 1-3/8 TBE (Black).....	1
30	FP-078-86	Elbow - Street 3/4 x 90 Deg.....	1
31	FE-024-57	Connector Straight (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
32	FP-022-17	Union 3/4 (Grd. Seat).....	1
33	NS-015-11	Nut 5/16-18 Hex (SST).....	2
34	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
35	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	2
36	00-812761	Flange - Pipe.....	1
37	00-435762	Gasket.....	2
38	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	4
39	00-892004-00002	Valve - Solenoid (3/4) (Parker).....	1
40	00-892363-00002	Coil - Solenoid Valve (110 - 120 V.) (Parker).....	1
41	00-892072	Kit - 3/4 In. Valve Service (Parker).....	1
42	FP-083-48	Pipe 3/4 x 8-1/2 TBE.....	1
*43	00-186922	Strainer - Line (3/4 In.) (Brass) (Kitz) (Incls. Items 44, 45, & 46) (Alternate to Item 48)	1
44	00-186923	Plug - Branch.....	1
45	00-186924	Gasket - Branch Plug.....	1
46	00-186925	Screen - Line Strainer.....	1
47	00-812506-00020	NLA - Obsolete--Conduit - Liquidtite.....	1
*48	00-186922	Strainer - Line (3/4 In.) (Brass) (Apollo / Conbraco) (Incls. Items 49, 50, & 51) (Alternate to Item 43).....	1
49	00-749802-00001	Cap.....	1
50	00-749802-00002	Gasket.....	1
51	00-749802-00003	Screen (80 Mesh).....	1
52	00-294357-00001	Housing - Connector (Nat).....	1
53	00-294357-00002	Housing - Connector (Black).....	1

\* Kitz line strainer is approx. 1/4" shorter than Apollo / Conbraco.

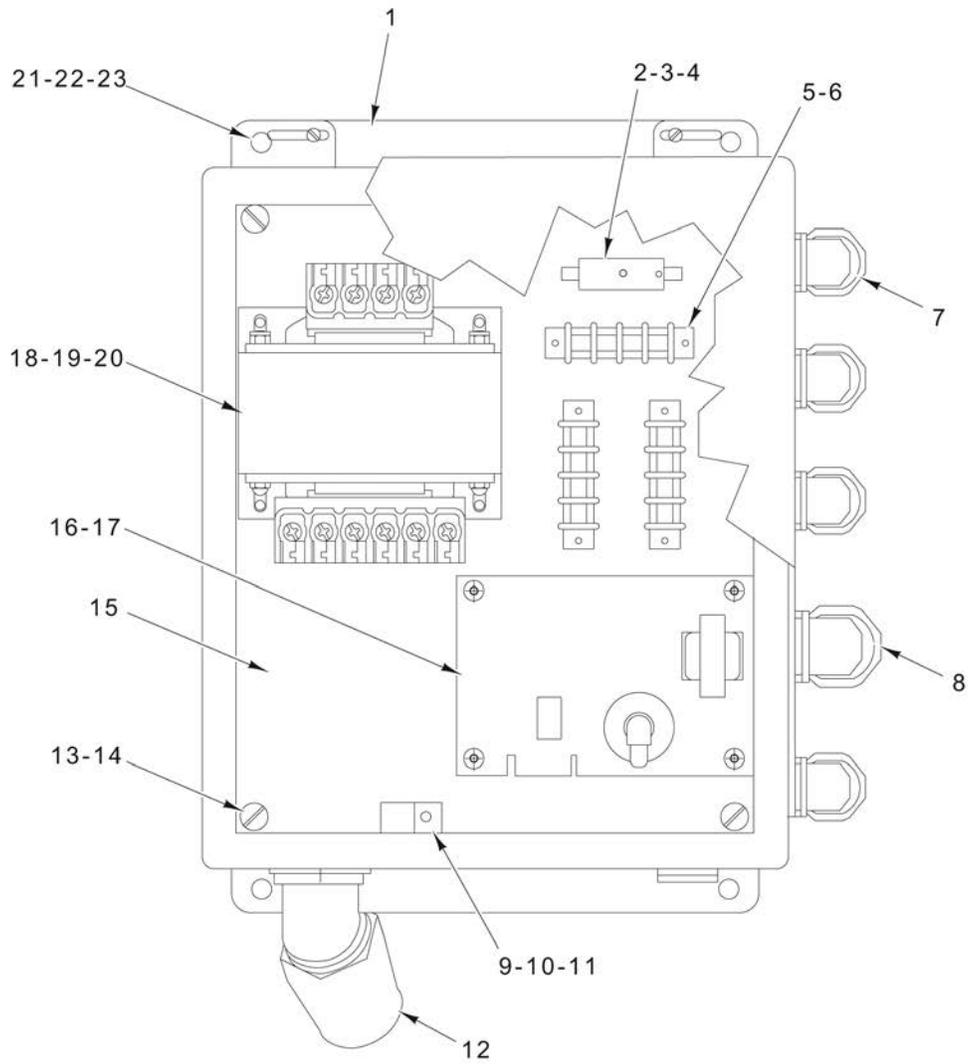


PL-57152

**GAS HEAT IMMERSION TUBE, SHROUD, AND FLUE**

**GAS HEAT IMMERSION TUBE, SHROUD, AND FLUE**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57152			
1	WS-003-49	Washer 0.266 x 0.563 x 0.062 (SST).....	7
2	WL-006-17	Lockwasher 1/4 Helical (SST).....	7
3	NS-015-01	Nut 1/4-20 Hex (SST).....	7
4	00-812470	Flue - Weldment.....	1
5	00-436100	Gasket - Immersion Tube.....	2
6	SC-121-43	Cap Screw 7/16-14 x 1-3/4 Hex Hd. (SST).....	4
7	WS-021-07	Washer (SST).....	8
8	WL-019-77	Lockwasher 7/16 Medium.....	4
9	NS-047-97	Nut 7/16-14 Hex.....	4
10	00-473123	Tube - Immersion.....	1
11	00-435952	Flange - Immersion Tube.....	1
12	00-812467-00001	Liner - Shroud.....	1
13	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	5
14	00-812466-00001	Shroud - Weldment.....	1
15	00-812476	Insulation - Shroud.....	1
16	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	4
17	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	4
18	WL-006-23	Lockwasher 5/16 Helical (SST).....	4
19	NS-015-11	Nut 5/16-18 Hex (SST).....	4

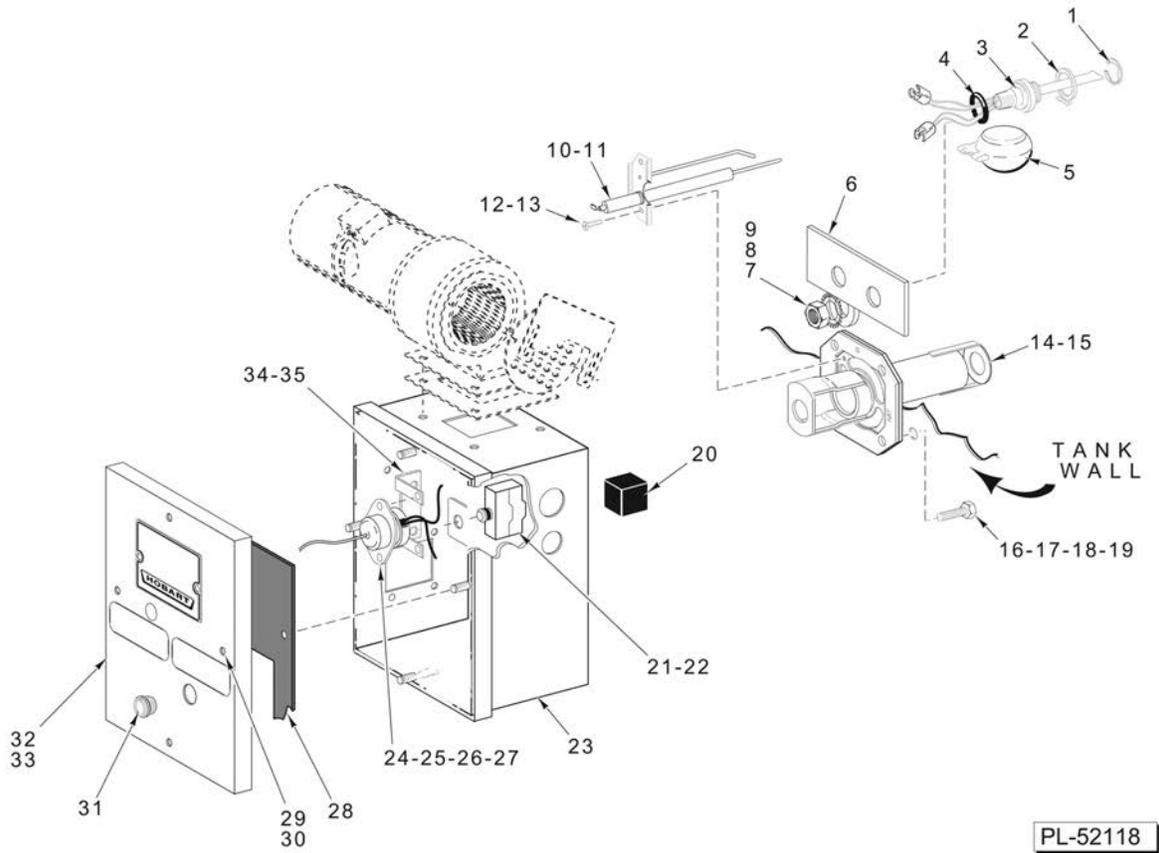


PL-58358

**CONTROL BOX  
(GAS HEAT)**

**CONTROL BOX  
(GAS HEAT)**

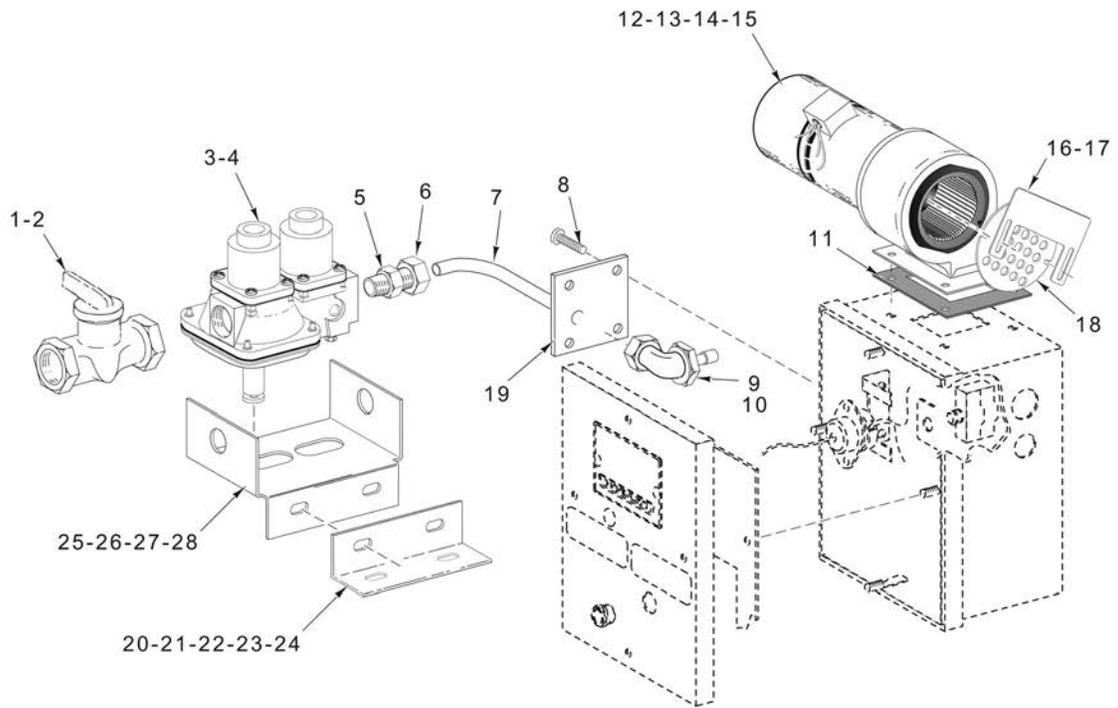
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-58358			
1	00-812480	Box - Control.....	1
2	00-294436-00003	Block - Fuse.....	1
3	FE-021-19	Fuse (3.2 Amp., 250 V.).....	1
4	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	1
5	00-294325-014-1	Block - Terminal.....	3
6	SD-009-17	Self-Tapping Screw 8-32 x 5/8 Phil. Pan Hd., Type F.....	6
7	FE-024-65	Connector 90 Deg. (Non-Metallic) Sealrite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	2
8	FE-024-66	Connector - Conduit 3/4 TS 90 Deg.....	1
9	00-294677-00003	Clamp - Wire (3/4 I.D.).....	1
10	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	1
11	WL-007-12	Lockwasher #10 External Shakeproof.....	1
12	FE-024-63	Connector 45 Deg. (Non-Metallic) Sealrite (1 Male).....	1
13	SC-071-11	Mach. Screw 10-24 x 3/8 Phil. Truss Hd.....	4
14	WL-007-12	Lockwasher #10 External Shakeproof.....	4
15	00-812478	Plate - Base.....	1
16	00-918223	Ignitor Board 24 VAC.....	1
17	SD-009-40	Self-Tapping Screw 6-32 x 3/4 Phil. Pan Hd., Type F.....	4
18	00-294500-046-2	Transformer (300 VA) Pilot Control.....	1
19	WL-014-07	Lockwasher #10 External Shakeproof (SST).....	4
20	SD-019-23	Self-Tapping Screw 10-16 x 3/8 Phil. Pan Hd., Type B.....	4
21	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	4
22	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
23	NS-015-01	Nut 1/4-20 Hex (SST).....	4
	00-812473-00001	Bracket - Gas Control Box.....	1



**GAS HEAT COMPONENTS  
(VIEW 1)**

**GAS HEAT COMPONENTS  
(VIEW 1)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-52118			
1	RR-010-13	Retaining Ring.....	1
2	00-112467	Retainer - Float.....	1
3	00-271621	Switch & Probe Assy. (4-Wire) (Long).....	1
4	00-067500-00072	O-Ring.....	1
5	00-122674	Float Assy.....	1
6	00-435960-00001	Plate Spacer (Float/Probe).....	1
7	NS-018-28	Jam Nut 1/2-20 Hex (SST).....	1
8	WL-014-03	Lockwasher #6 External (SST).....	1
9	WS-010-40	Washer - Thrust.....	1
10	00-436792	Electrode - Spark/Sense (NAT).....	1
11	00-436067	Electrode - Spark/Sense (PRO).....	1
12	SC-120-35	Mach. Screw 8-32 x 3/8 Phil. Pan Hd. (SST).....	2
13	WL-014-05	Lockwasher #8 External Shakeproof (SST).....	2
14	00-328649	Burner - Weldment (NAT, 60 Hz.).....	1
15	00-436761	Burner - Weldment (PRO, 60 Hz.).....	1
16	SC-121-43	Cap Screw 7/16-14 x 1-3/4 Hex Hd. (SST).....	4
17	WS-021-07	Washer (SST).....	8
18	WL-019-77	Lockwasher 7/16 Medium.....	4
19	NS-047-97	Nut 7/16-14 Hex.....	4
20	00-328450	Plug - Rubber (Conduit).....	2
21	00-087711-153-1	Switch - Limit.....	1
22	00-328508	Insulator - Switch.....	1
23	00-328465	Box - Gas Heat (LH).....	1
24	00-271123	Protector - High Limit.....	1
25	SC-127-26	Mach. Screw 6-32 x 3/8 Phil. Rd. Hd. (SST).....	2
26	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
27	00-293946	Sleeve - Lead.....	1
28	00-328429	Gasket - Heat Box Lid.....	1
29	WS-019-06	Washer.....	4
30	NS-031-16	Stop Nut 10-24 Hex Elastic (SST).....	4
31	00-435024	Eye - Box (Gas Heat).....	1
32	00-812491	Lid Assy. - Box (Gas Heat) (NAT).....	1
33	00-812491-00002	Lid Assy. - Box (Gas Heat) (PRO).....	1
34	00-271122	Bracket - Thermostat.....	1
35	SC-066-05	Mach. Screw 10-24 x 3/8 Phil. Truss Hd. (SST).....	2
	00-294357-00001	Housing - Connector (Nat).....	1
	00-294357-00002	Housing - Connector (Black).....	1

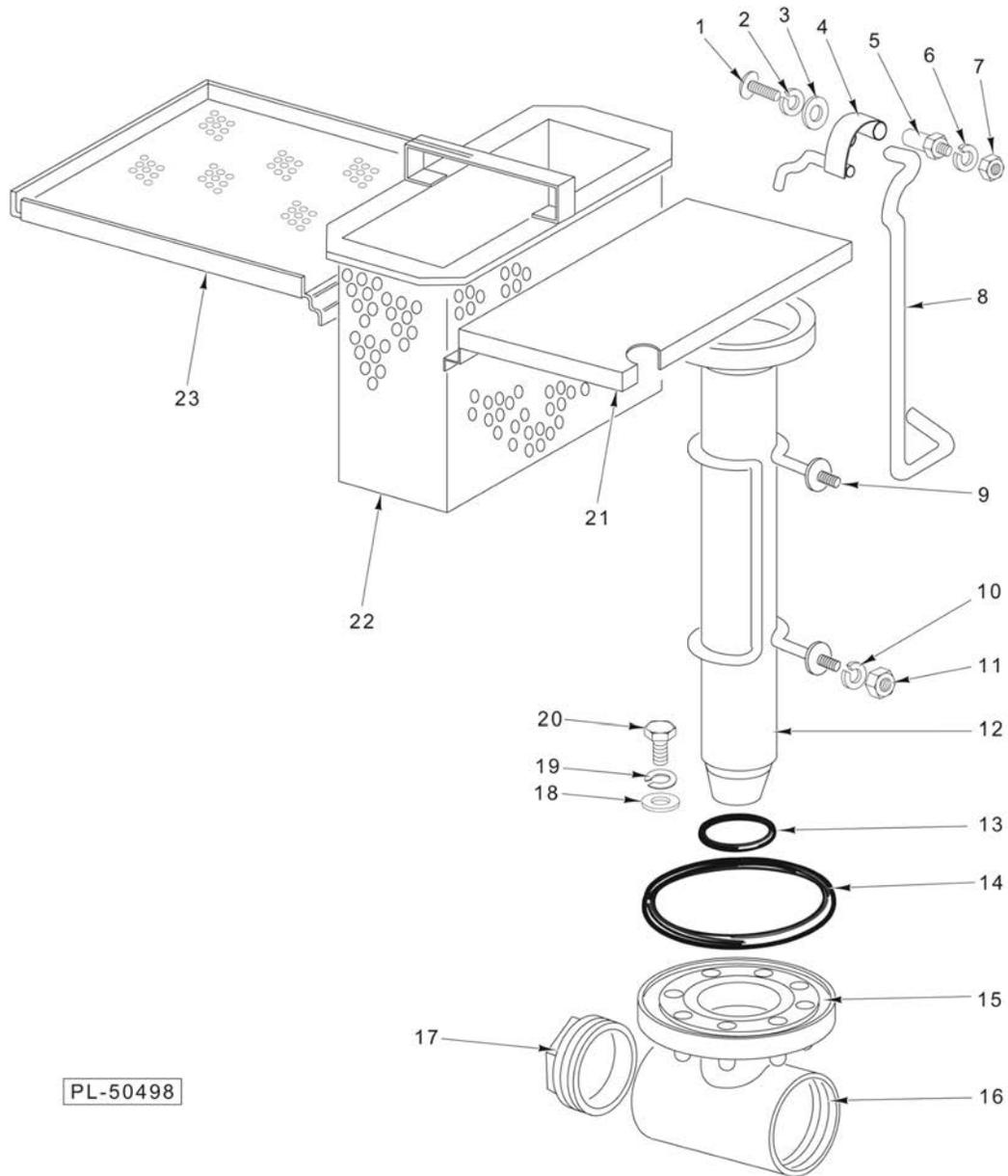


PL-60126

**GAS HEAT COMPONENTS  
(VIEW 2)**

**GAS HEAT COMPONENTS  
(VIEW 2)**

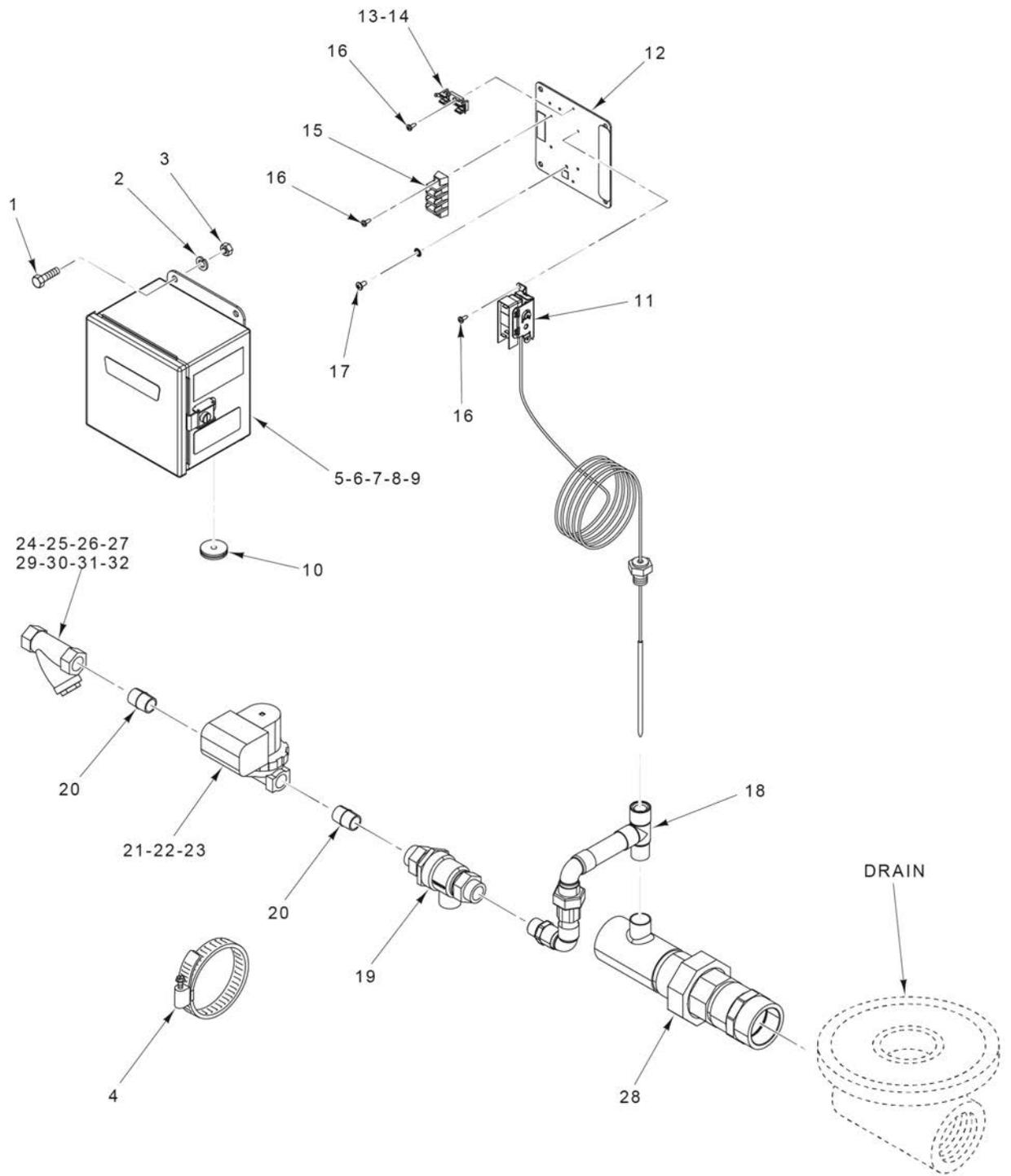
ILLUS.	PART NO.	NAME OF PART	AMT.
1	00-291988-00003	Valve - Gas (Shut Off).....	1
2	FP-035-94	Pipe 1/2 x 1-1/2 TBE.....	1
3	00-328426-00001	Valve - Regulator (NAT).....	1
4	00-328426-00002	Valve - Regulator (PRO).....	1
5	FP-026-14	Bushing - 1/2 to 3/8.....	1
6	00-435702	Connector - Male 7/16.....	1
7	00-328425-00002	Tube - Gas.....	1
8	SC-066-05	Mach. Screw 10-24 x 3/8 Phil. Truss Hd. (SST).....	4
9	00-435701-00002	Angle Fitting #43 (LP).....	1
10	00-435701-00003	Angle Fitting 7/16 (NAT).....	1
11	00-328473	Gasket - Blower.....	1
12	00-328476-00001	Blower - Motor & Switch.....	1
13	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	4
14	WL-014-10	Lockwasher 1/4 External Shakeproof.....	1
15	NS-031-21	Stop Nut 1/4-20 Hex (SST).....	4
16	00-328428	Plate - Adjusting.....	1
17	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	2
18	00-328427	Plate - Restrictor.....	1
19	00-328440	Plate - Gas Line.....	1
20	00-812472	Bracket - Gas Valve Mounting.....	1
21	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	2
22	WS-017-06	Washer (SST).....	2
23	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
24	NS-015-01	Nut 1/4-20 Hex (SST).....	2
25	00-328212	Bracket - Valve.....	2
26	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	2
27	WL-006-23	Lockwasher 5/16 Helical (SST).....	2
28	NS-015-11	Nut 5/16-18 Hex (SST).....	2



### STRAINERS AND DRAIN

**STRAINERS AND DRAIN**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-50498			
1	SC-114-15	Mach. Screw 10-24 x 3/8 Rd. Hd. (SST).....	1
2	WL-006-07	Lockwasher #10 Helical (SST).....	1
3	WS-019-06	Washer.....	1
4	00-163320	Drain Lever Assy.....	1
5	00-119116	Axle - Drain Lever.....	1
6	WL-006-17	Lockwasher 1/4 Helical (SST).....	1
7	NS-015-01	Nut 1/4-20 Hex (SST).....	1
8	00-814318	Rod - Overflow Lift.....	1
9	00-277025	Guide.....	1
10	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
11	NS-015-01	Nut 1/4-20 Hex (SST).....	2
12	00-119099-00002	Tube - Overflow.....	1
13	00-067500-00120	O-Ring.....	1
14	00-067500-00082	O-Ring.....	1
15	00-119239	Sleeve.....	1
16	00-118976	Body - Drain Valve.....	1
17	FP-028-32	Pipe Plug 2 In. Sq. Hd.....	1
18	WS-017-08	Washer (0.328 x 0.625 x 0.062) (SST).....	8
19	WL-006-23	Lockwasher 5/16 Helical (SST).....	8
20	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	8
21	00-163275	Overflow Cover.....	1
22	00-163283	Strainer Bucket.....	1
23	00-811842	Strainer Pan.....	1

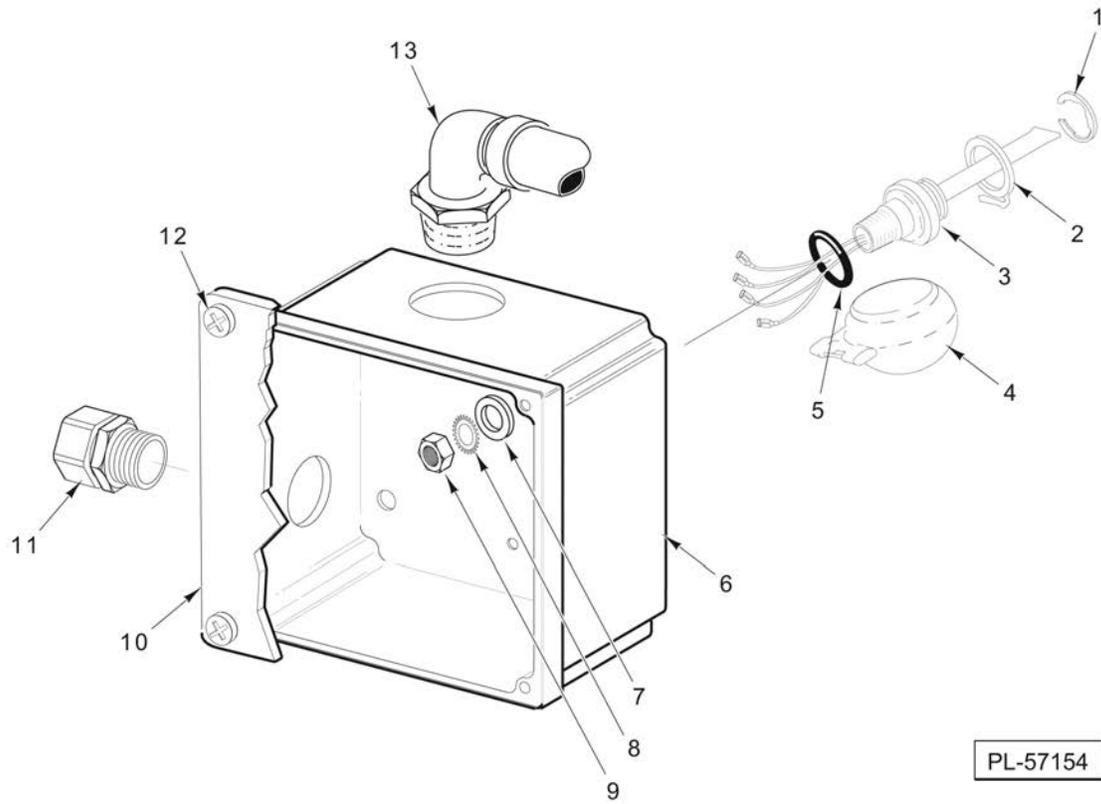


### DRAIN WATER TEMPERING

**DRAIN WATER TEMPERING**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60355			
1	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	2
2	WL-003-36	Lockwasher 1/4 Light.....	2
3	NS-015-01	Nut 1/4-20 Hex (SST).....	2
4	00-542337	Clamp - Hose.....	2
5	00-814690	Box - Control.....	1
6	00-814767	Cable - Control.....	1
7	00-814666	Cable - Solenoid Valve.....	1
8	00-814665	Harness - Thermostat.....	1
9	00-814663-00003	Wire - Ground.....	1
10	00-274947	Grommet.....	1
11	00-294681-025-4	Thermostat - Drain (135 Deg.).....	1
12	00-814678	Plate - Base.....	1
13	00-294436-00003	Block - Fuse.....	1
14	FE-008-48	Fuse (250 V., 0.6 Amp.).....	1
15	00-919742-00003	Block - Terminal.....	1
16	SD-019-29	Self-Tapping Screw 6-20 x 1/2 Phil. Pan Hd., Type B.....	5
17	SD-008-25	Self-Tapping Screw 10-16 x 1/2 Phil. Pan Hd., Type B.....	1
18	00-814712-00001	Pipe Assy. (Cold Water).....	1
19	00-223472	Backflow Preventer.....	1
20	FP-040-42	Pipe 1/2 x 1-1/8 TBE (Brass).....	2
21	00-435968-00001	Valve - Solenoid (1/2 In.) (110-120 V.) (Incls. Item 22).....	1
22	00-271839-00001	Coil - Solenoid Valve.....	1
23	00-271837	Service Kit - Solenoid Valve.....	1
*24	00-270258	Strainer - Line (1/2) (Brass) (Kitz) (Incls. Items 25, 26, & 27) (Alternate to Item 29) .....	1
25	00-270259	Plug - Branch.....	1
26	00-270260	Screen - Strainer (1/2 In.).....	1
27	00-270261	Gasket.....	1
28	00-814711	Drain Pipe Assy.....	1
*29	00-892921	Strainer - Line (1/2) (Brass) (Conbraco) (Incls. Items 30, 31, & 32) (Alternate to Item 24).....	1
30	00-892922-00001	Cap.....	1
31	00-892922-00002	Gasket.....	1
33	00-892922-00003	Screen.....	1

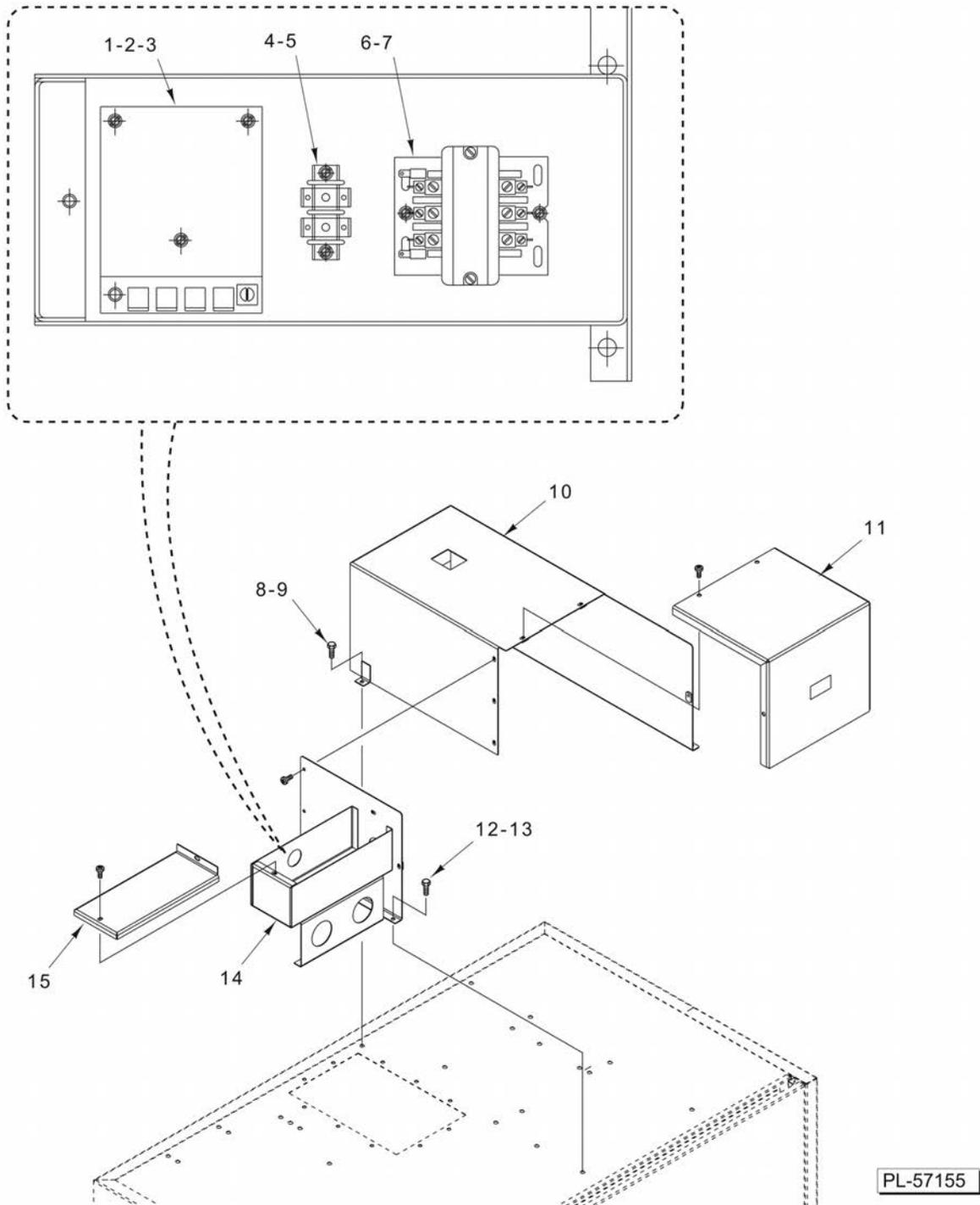
\* Kitz line strainer is approx. 0.43 inches longer than Conbraco.



**LOW WATER PROTECTION  
(STEAM HEAT/WASH TANK)**

**LOW WATER PROTECTION  
(STEAM HEAT/WASH TANK)**

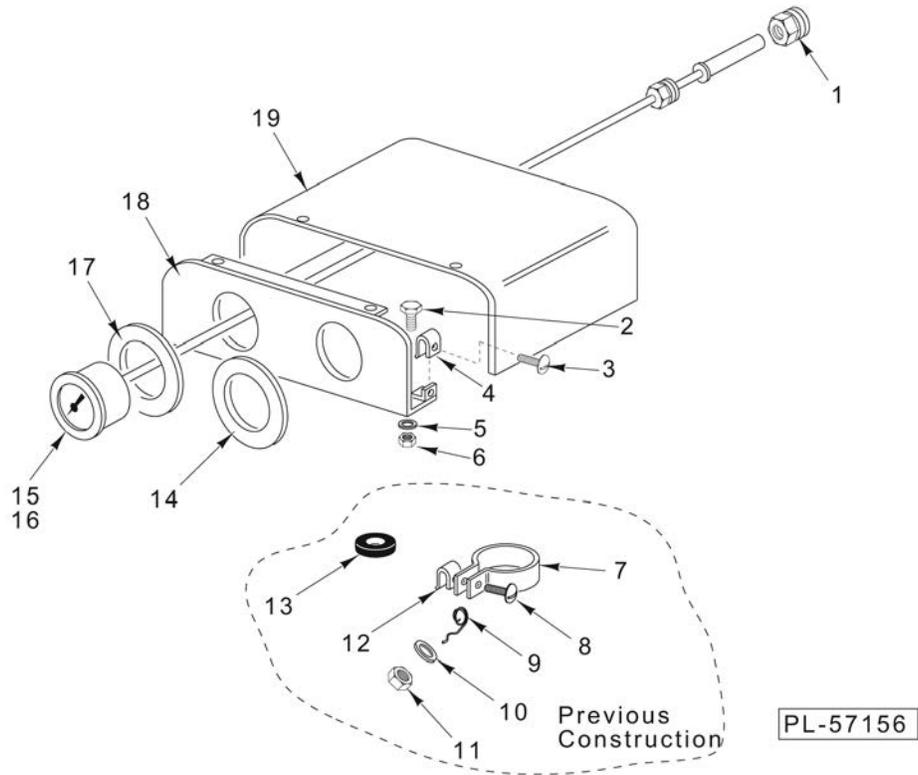
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57154			
1	RR-010-13	Retaining Ring.....	1
2	00-112467	Retainer - Float.....	1
3	00-271621	Switch & Probe Assy. (4-Wire) (Long) (Temperature & Water Level).....	1
4	00-122674	Float Assy.....	1
5	00-067500-00072	O-Ring.....	1
6	00-271112-00001	Box - Steam Heat.....	1
7	WS-010-40	Washer - Thrust.....	1
8	WL-014-31	Lockwasher 1/2 External Shakeproof (SST).....	1
9	NS-018-28	Jam Nut 1/2-20 Hex (SST).....	1
10	00-288465	Lid & Gasket Assy.....	1
11	FE-024-57	Connector Straight (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
12	SD-012-20	Self-Tapping Screw 8-32 x 1/2 Phil. Truss Hd., Type T.....	4
13	FE-024-65	Connector 90 Deg. (Non-Metallic) Sealtite (1/2 Male Thd. x 1/2 Flex. Cnd.).....	1
	00-294357-00001	Housing - Connector (Nat).....	1
	00-294357-00002	Housing - Connector (Black).....	1



**BOOSTER CONTROL BOX**

**BOOSTER CONTROL BOX**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57155			
1	00-475458-00001	Thermostat - Solid State (120 V.).....	1
2	SC-125-25	Mach. Screw 6-32 x 3/4 Phil. Rd. Hd. (SST).....	3
3	00-476653	Spacer - Circuit Board.....	4
4	00-117256	Block - Terminal.....	1
5	SC-125-42	Mach. Screw 8-32 x 1/2 Phil. Rd. Hd. (SST).....	2
6	00-918322	Contacto (40 Amp., 3-Pole).....	1
7	SC-125-42	Mach. Screw 8-32 x 1/2 Phil. Rd. Hd. (SST).....	2
8	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	5
9	NS-031-19	Stop Nut 1/4-20 Hex (SST).....	5
10	00-814948	Enclosure - Booster.....	1
11	00-814947	Cover - Booster Enclosure.....	1
12	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	3
13	NS-031-19	Stop Nut 1/4-20 Hex (SST).....	3
14	00-814946	Box - Booster Control.....	1
15	00-812360	Cover - Booster Control Box.....	1
	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST) (Fastens Cover to Box).....	2
	FE-023-53	Bushing - Snap.....	1

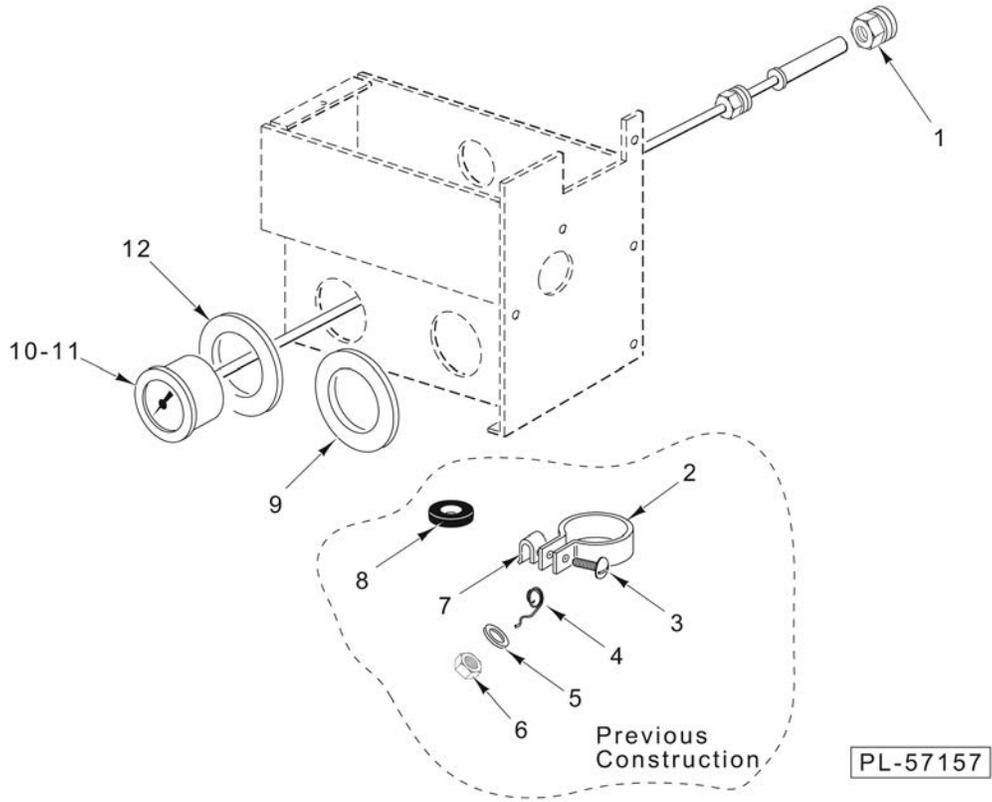


**THERMOMETER UNIT  
(WITHOUT BOOSTER)**

**THERMOMETER UNIT  
(WITHOUT BOOSTER)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57156			
1	00-107218	Coupling - Thermometer Bulb.....	2
2	SC-041-10	Cap Screw 5/16-18 x 5/8 Hex Hd. (SST).....	2
3	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	4
4	00-074348	Speed Nut 10-24.....	4
5	WL-006-22	Lockwasher 5/16 Light.....	2
6	NS-015-11	Nut 5/16-18 Hex (SST).....	2
*7	00-074098	Clamp - Thermometer.....	3
*8	SC-053-03	Mach. Screw 10-24 x 3/4 Slotted Truss Hd. (SST).....	3
*9	00-276451	Retainer - Wire.....	1
*10	WS-022-04	Washer (SST).....	1
*11	NS-015-01	Nut 1/4-20 Hex (SST).....	1
*12	00-074348	Speed Nut 10-24.....	3
*13	00-065028	Grommet.....	1
14	00-286684	Ring - Wash Identification.....	1
15	00-328696-00002	Thermometer (3 Ft.) (Final Rinse).....	1
16	00-437041-00004	Thermometer (11 Ft.) (Wash / Rinse).....	1
17	00-286687	Ring - Final Rinse Identification.....	1
18	00-812401	Thermometer Panel Assy.....	1
19	00-292419	Housing - Thermometer (5 In. Lg.).....	1

\* (Previous Construction)

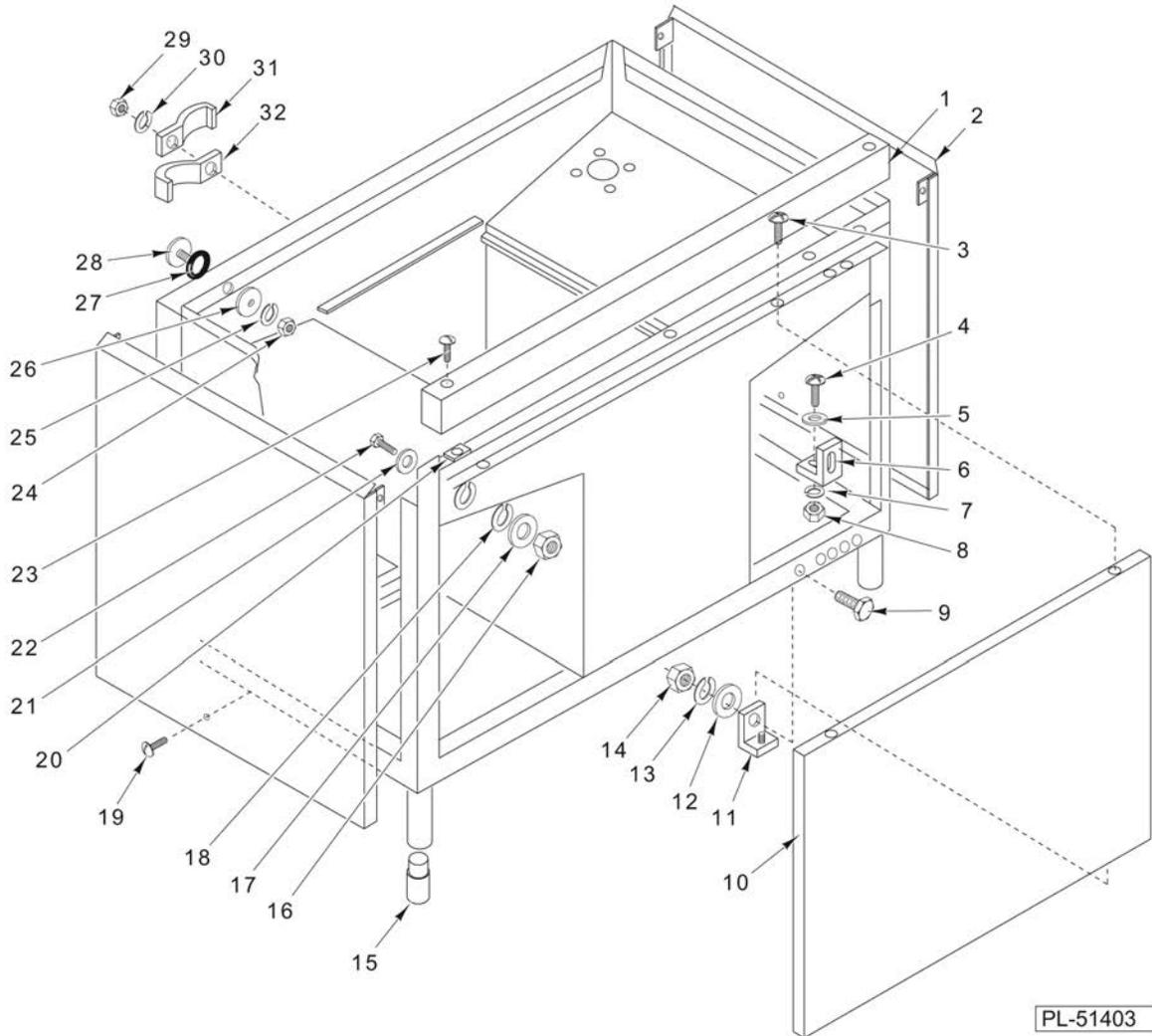


**THERMOMETER UNIT  
(WITH BOOSTER)**

**THERMOMETER UNIT  
(WITH BOOSTER)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57157			
1	00-107218	Coupling - Thermometer Bulb.....	1
*2	00-074098	Clamp - Thermometer.....	3
*3	SC-053-03	Mach. Screw 10-24 x 3/4 Slotted Truss Hd. (SST).....	3
*4	00-276451	Retainer - Wire.....	1
*5	WS-022-04	Washer (SST).....	1
*6	NS-015-01	Nut 1/4-20 Hex (SST).....	1
*7	00-074348	Speed Nut 10-24.....	3
*8	00-065028	Grommet.....	1
9	00-286684	Ring - Wash Identification.....	1
10	00-328696-00002	Thermometer (3 Ft.) (Final Rinse).....	1
11	00-437041-00004	Thermometer (11 Ft.) (Wash / Rinse).....	1
12	00-286687	Ring - Final Rinse Identification.....	1

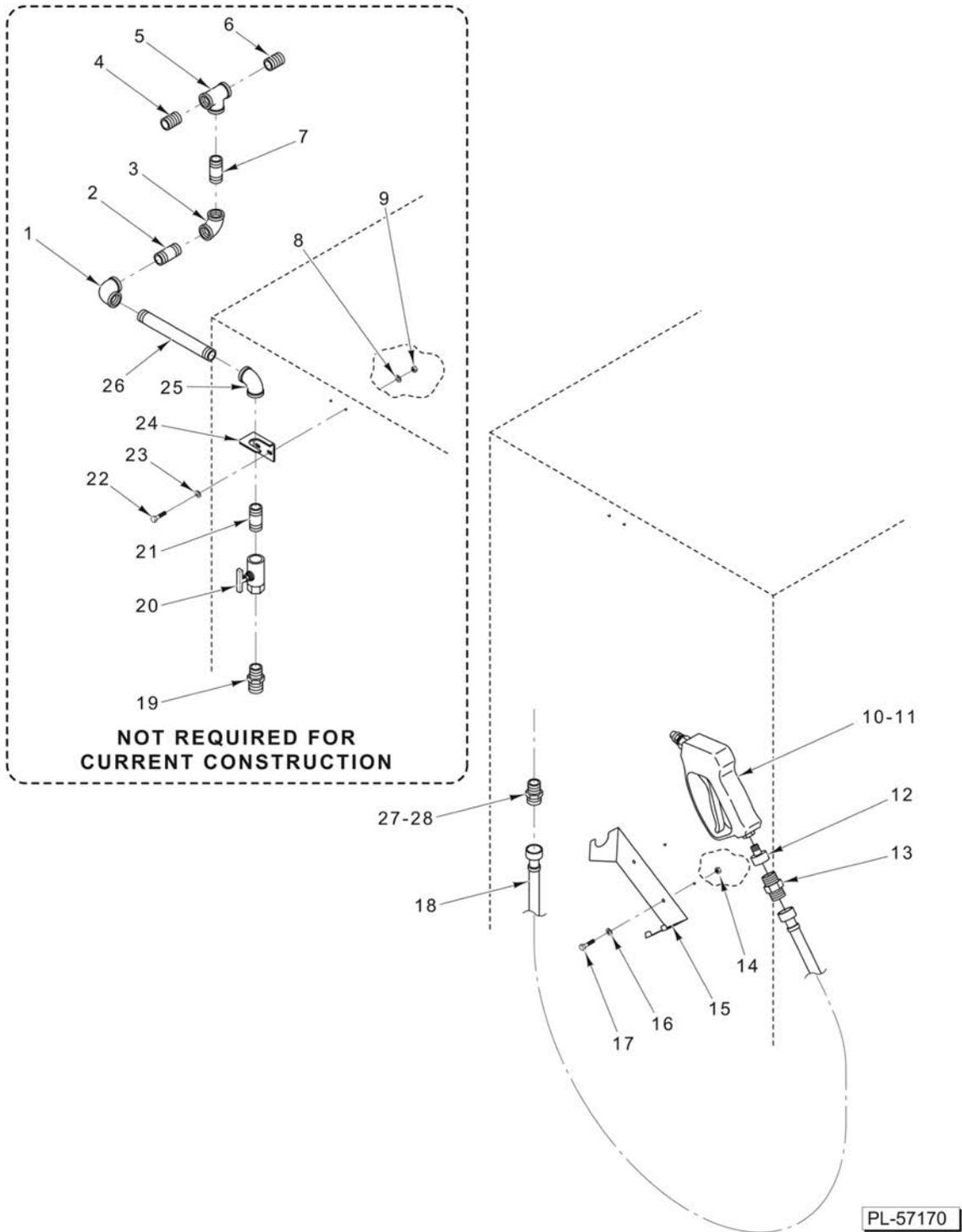
\* (Previous Construction)



### FRAME AND PANELS

**FRAME AND PANELS**

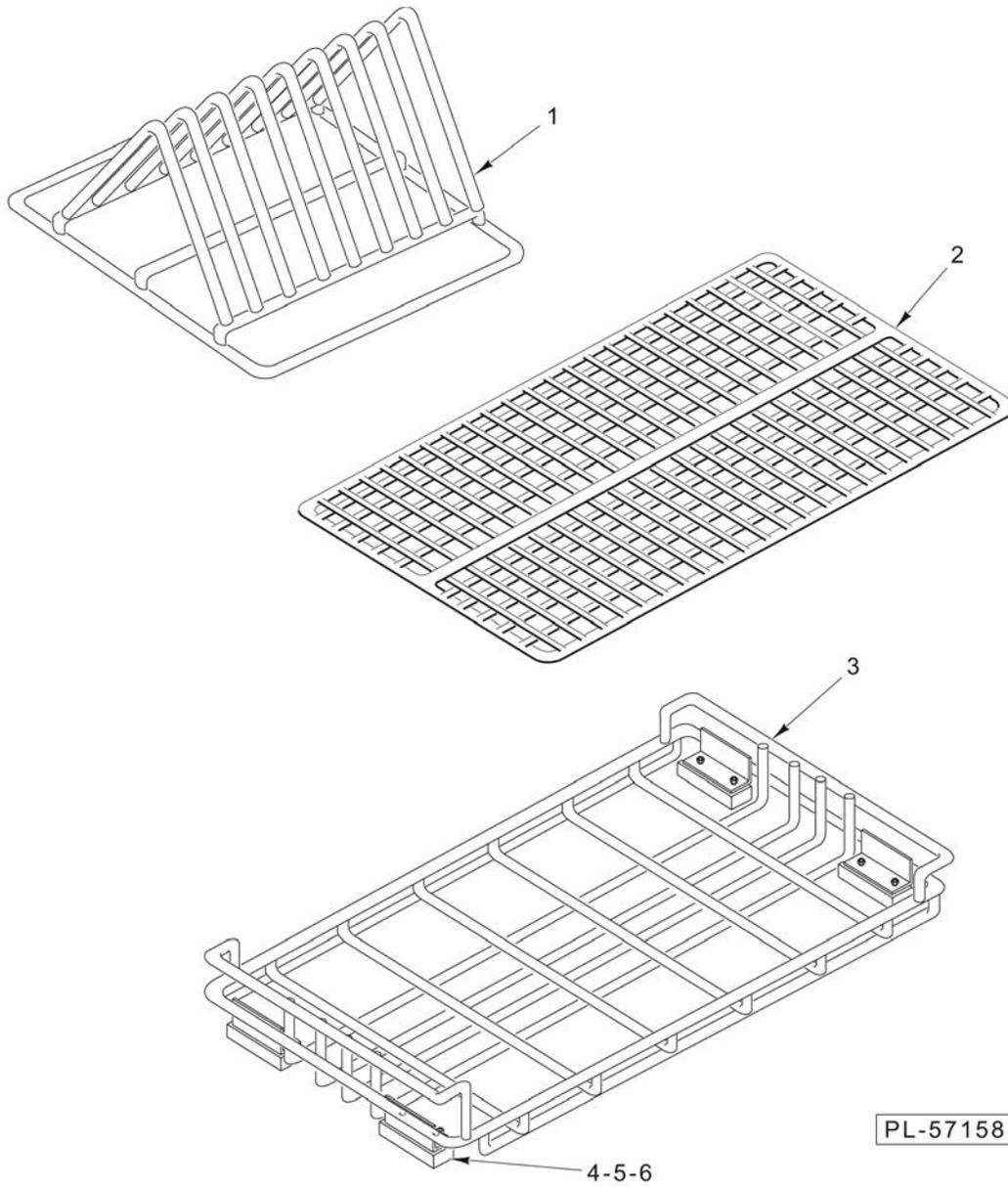
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-51403			
1	00-163217	Trim - Panel.....	1
2	00-163235	Side Panel Assy.....	2
3	SD-026-09	Self-Tapping Screw 10-16 x 1/2 Phil. Truss Hd., Type AB (SST).....	2
4	SC-041-01	Cap Screw 1/4-20 x 3/4 Hex Hd. (SST).....	1
5	WS-017-06	Washer (SST).....	6
6	00-163458	Bracket - Control Box Mounting.....	3
7	WL-006-17	Lockwasher 1/4 Helical (SST).....	6
8	NS-015-01	Nut 1/4-20 Hex (SST).....	6
9	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	2
10	00-163230	Panel - Front.....	1
11	00-163290	Front Panel Support Bracket Assy.....	2
12	WS-017-06	Washer (SST).....	2
13	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
14	NS-015-01	Nut 1/4-20 Hex (SST).....	2
15	00-288946-00002	Foot - Adjustable (1-5/8) (SST).....	4
16	NS-015-11	Nut 5/16-18 Hex (SST).....	4
17	WS-017-21	Washer.....	4
18	WL-006-22	Lockwasher 5/16 Light.....	8
19	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	2
20	00-074348	Speed Nut 10-24.....	5
21	WS-017-21	Washer.....	4
22	SC-041-11	Cap Screw 5/16-18 x 3/4 Hex Hd. (SST).....	4
23	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	3
24	NS-015-01	Nut 1/4-20 Hex (SST).....	1
25	WL-006-17	Lockwasher 1/4 Helical (SST).....	1
26	00-119254	Retainer - Cap & Stud.....	1
27	00-067500-00031	O-Ring.....	1
28	00-119244	Cap & Stud Assy.....	1
29	NS-015-01	Nut 1/4-20 Hex (SST).....	1
30	WL-006-17	Lockwasher 1/4 Helical (SST).....	1
31	FE-006-46	Clamp - Electric.....	1
32	FE-025-10	Clamp 1-1/4 (Use With Booster).....	1



**SPRAY HOSE**

**SPRAY HOSE**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-57170			
1	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
2	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
3	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
4	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
5	FP-019-28	Tee - Pipe 3/4 x 3/4 x 3/4 (Brass).....	1
6	FP-041-50	Pipe 3/4 x 1-3/8 TBE (Brass).....	1
7	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
8	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
9	NS-015-01	Nut 1/4-20 Hex (SST).....	2
10	00-812608-00002	Nozzle.....	1
11	00-812608-00003	Gun - Spray.....	1
12	FP-088-17	Fitting - Hose.....	1
13	FP-088-18	Fitting - Hose.....	1
14	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
15	00-748293	Bracket - Sprayer.....	1
16	WS-019-06	Washer.....	2
17	SC-066-06	Mach. Screw 10-24 x 1/2 Phil. Truss Hd. (SST).....	2
18	00-293625-00002	Hose - Fill (96 In.).....	1
19	FP-087-32	Fitting - Hose.....	1
20	00-223220-00003	Valve 3/4 In. Ball.....	1
21	FP-041-60	Pipe 3/4 x 2-5/8 TBE (Brass).....	1
22	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	2
23	WS-017-06	Washer (SST).....	2
24	00-748294	Bracket - Piping Support.....	1
25	FP-015-23	Elbow 3/4 x 90 Deg. (Brass).....	1
26	FP-042-15	Pipe 3/4 x 8-1/2 TBE (Brass).....	1
27	00-814999	Adapter 3/4 to 1/2 NPT.....	1
28	00-815002	Clamp.....	1



## RACKS

**RACKS**

ILLUS. PL-57158	PART NO.	NAME OF PART	AMT.
1	00-172829	Insert - Tray.....	2
2	00-172830-00001	Tray - Bottom.....	1
3	00-812814	Tray (Incls. Items 4, 5, & 6).....	1
4	00-163997	Slide.....	4
5	SC-022-40	Mach. Screw 1/4-20 x 3/4 Phil. Flat Hd. (SST).....	8
6	NS-031-21	Stop Nut 1/4-20 Hex (SST).....	8

