



PW20ER Shown



PW10ER Shown
28917

PW20 PREP WASHER

TECHNICAL MANUAL

**SPECIFICATION SHEET
CLEANING GUIDE
INSTALLATION INSTRUCTIONS
OPERATION INSTRUCTIONS
PROGRAMMING INSTRUCTIONS
MAINTENANCE
TROUBLESHOOTING
WIRING DIAGRAMS
HOBART SERVICE PARTS STORE
CATALOG OF REPLACEMENT PARTS**



Project _____
 AIA # _____ SIS # _____
 Item # _____ Quantity _____ C.S.I. Section 114000



PW SERIES – PW20

PW20
Pot, Pan & Utensil Washer



STANDARD FEATURES

- + Timed wash cycles; racks per hour: 20 (2 minute wash), 12 (4 minute wash), 8 (6 minute wash)
- + 2.35 gallons of water per cycle
- + Hot water sanitation machines
- + Sense-A-Temp™ booster heater capable of 70° rise
- + Front loading, split-door configuration
- + Chamber accepts 20 full-sized sheet pans, or 140 quart mixing bowl
- + Advanced service diagnostics
- + 16 gauge stainless steel deep drawn tank
- + Microcomputer controls with advanced digital cycle/temperature display
- + Two revolving upper and lower anti-clogging wash arms and rinse arms
- + Removable stainless steel scrap screens and scrap basket
- + Corrosion resistant pump
- + Automatic pumped drain
- + Pumped rinse
- + 33.79" door opening
- + Automatic fill
- + Delime pump standard (Advansys)
- + Electric tank heat
- + Spray hose



OPTIONS & ACCESSORIES (Available at extra cost)

- Pressure regulator valve 3/4"
- DWT-PW drain water tempering kit
- Steam pan rack (capacity for two racks)
- Flanged feet
- Water hammer kit
- Door height lowering kit
- Pan rack
- Combination rack

SPECIFIER STATEMENT

Specified dishwasher will be Hobart PW20 Pot/Pan/Utensil Washer, front loading with split door design, (20) pan capacity, over/under rotating arms, 2/4/6 minute adjustable timer, up to (20) racks/hour, includes: (2) flat grids, (2) tray racks & (1) flat bottom rack, pre-rinse spray hose, sanitizing with Sense-A-Temp™ 70° booster rise, vent fan control, drain pump, stainless steel construction, 208-240v/60/3-ph & 480v/60/3-ph, NSF, BISC, ENERGY STAR®.

1 year parts and labor warranty.

Approved by _____ Date _____ Approved by _____ Date _____

LEGEND

Electrical Connections	
E1	Electrical connection (including electric heat) 1-1/4" conduit hole, 7-1/16" AFF.
Plumbing Connections	
P1	Hot water connection incoming: 110°F water minimum. 3/4" female garden hose fitting on 6' long hose supplied with machine. 7-3/4" AFF.
P2	Drain connection: 7/8" barb fitting, 27-1/2" AFF. 6' long 7/8" hose supplied with machine.

NOTE: Cold water connection at P2 (as needed when optional drain water tempering kit is included: 55-80°F recommended water, 1/2" MPT, 26-15/16" AFF.

WARNING: Plumbing and electrical connections should be made by qualified personnel who will observe all the applicable plumbing, sanitary, safety codes and National Electrical Code.

Plumbing Notes: Required flowing water pressure to the dishmachine is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve must be installed in the water line to the dishmachine (by others). Recommended water hardness to be 3 grains or less for best results. Pressure gauge not required on pumped rinse machines.

Miscellaneous Notes: Backflow prevention provided by NSF-approved air gap device. Single point electrical connection machines.

Electrical Specifications			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/240/60/3	58.6/64.0	70/80	80
480/60/3	35	45	45

All dimensions taken from floor line may increase 1-1/2" depending on leg adjustment.

SPECIFICATIONS

Capacities

Wash Time Settings (minutes) 2, 4, 6
 Racks per Hour 20 (2 min. wash), 12 (4 min. wash), 8 (6 min. wash)
 Tank Capacity – Gallons 34

Motor Horsepower

Wash 4.0
 Rinse 0.33

Water Consumption

U.S. Gallons per Cycle 2.35
 U.S. Gallons per Hour (maximum use) 47.0
 Peak Drain Flow – U.S. Gallons 26.0

Temperatures °F

Wash 150
 Rinse 180
 Incoming Water Temperature (minimum recommended) 110

Heating

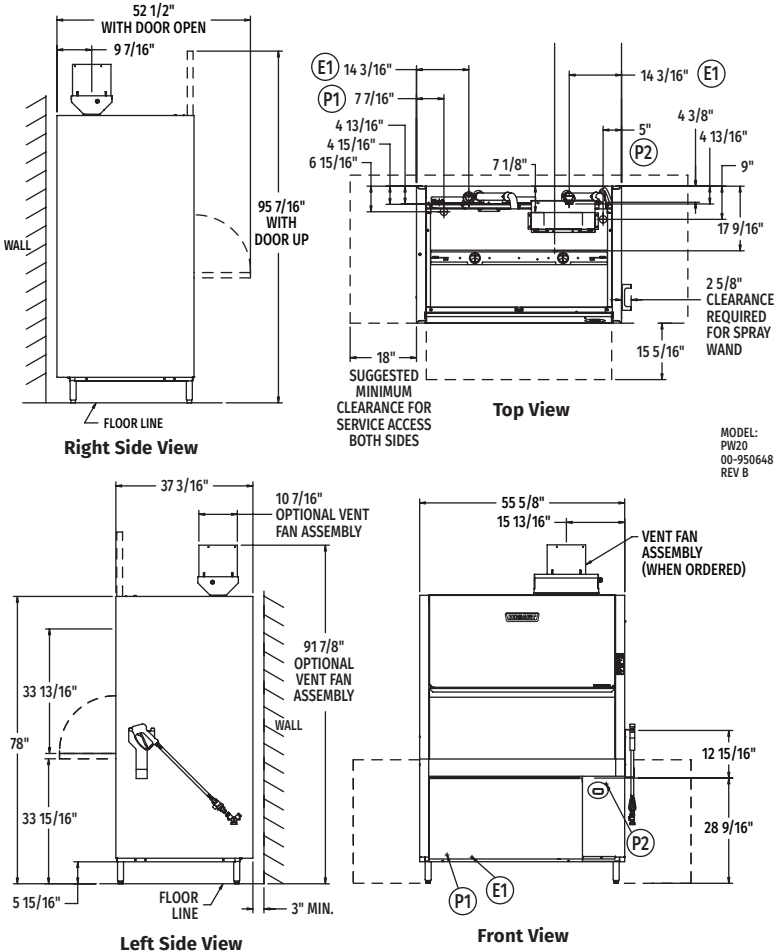
Tank Heat, electric (kW) 16.4
 Electric Booster (kW) 16.4

Standard 20" x 20" (508 x 508) Rack Complement

Trat Rack (10 pan each) 2
 Flat Grid 2
 Flat Bottom 1

Shipping Weight (approximate) 705 lbs.

Crated Dimensions 80"H x 64"W x 40"D



MODEL: PW20
00-950648
REV B

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

[CAD and/or Revit Files Available](#)

CLEAN DISHWARE QUICK REFERENCE GUIDE

PROBLEMS

Spotting

POSSIBLE CAUSE

Improper dishware loading in racks.

Hard water.

High TDS (Total Dissolved Solids)

No rinse agent being injected.

Rinse water temperature too high or too low.

Not enough time to air dry before storage.

PROBABLE SOLUTION

Instruct on proper loading procedures to insure water contact on all ware surfaces.

Water hardness at hot water faucet should be between 4 and 6 grains per gallon hardness. If outside range, recommend water treatment.

Install sediment filter or carbon block.

If all other conditions are proper, recommend having rinse dispenser checked.

Temperature too high results in flash drying and spots. Too low results in slow drying and spots.

When all conditions are right, approximate time to air dry is 60 seconds.

Streaking

Improper dishware loading in racks.

Rinse water hardness.

High TDS (Total Dissolved Solids)

No rinse agent is being injected.

Instruct on proper loading procedures to insure water contact on all ware surfaces.

Water hardness at hot water faucet should be between 4 and 6 grains per gallon hardness. If outside range, recommend water treatment.

Install sediment filter or carbon block.

If all other conditions are proper, recommend having rinse dispenser checked.

Filming

Improper dishware loading in racks.

Water Hardness

High TDS (Total Dissolved Solids)

Water Temperature

Detergent carry-over.

Instruct on proper loading procedure to insure water contact on all ware surfaces.

Water hardness at hot water faucet should be between 4 and 6 grains per gallon hardness. If outside range, recommend water treatment.

Install sediment filter or carbon block.

Rinse water maintained above recommended temperature range may cause filming.

Maintain adequate pressure and volume of rinse water.

CLEAN DISHWARE QUICK REFERENCE GUIDE

<u>PROBLEMS</u>	<u>POSSIBLE CAUSE</u>	<u>PROBABLE SOLUTION</u>
Filming on Flatware Only	No presoak	Flatware may need to be pre-soaked before washing.
Greasy Film	Improper scrapping, not pre-rinsing causes over contamination of wash water.	Instruct on proper loading procedures to insure water contact on all ware surfaces.
	Wash water temperature too low.	Maintain proper wash temperature range.
Staining Plastic	Normal to have to de-stain plastic after many uses.	Pre-soak plastic ware.
Staining Ceramic	Wash temperature not in proper range.	Detergent is typically chlorinated to remove stains, but must be used in the correct water temperature range to operate properly. Using a steel wool pad can stain ceramic. Use a green scrub pad instead of a steel wool pad.
Soiled Dishes	Insufficient pre-scrapping.	Instruct on proper pre-scrapping and pre-rinsing.
	Improper loading of racks.	Instruct on proper loading of ware in racks.
	Wash water temperature too high, baking food on ware.	Maintain proper wash water temperature range.
	Wash water temperature too low for detergent to dissolve food residue.	Maintain proper wash water temperature range.
Foaming	Insufficient pre-scrapping.	Instruct on proper pre-scrapping and pre-rinsing.
	Wash water temperature not being maintained.	Maintain proper wash water temperature range.
	Insufficient rinse water.	Maintain proper rinse flow pressure.
Lime Scale Deposits	High water hardness level.	Water must be treated to eliminate problem. Test at hot water faucet to determine the hardness level. Machine must be delimed following specific machine and chemical instructions.
	High TDS (Total Dissolved Solids)	Install sediment filter or carbon block.

INSTALLATION
INSTALLATION
INSTALACIÓN

PW10/PW20 PREP WASHER
LAVE-BATTERIE PW10/PW20
LAVAVAJILLAS PW10 Y PW20



MODEL
MODÈLE
MODELO

PW10	ML-130290
PW10ER	ML-130291
PW20	ML-130292
PW20ER	ML-130293



HOBART

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F-47575 (March 2016)

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Installation, Operation and Care Of Model PW10/PW20 Prep Washer

SAVE THESE INSTRUCTIONS

GENERAL

The PW10 and PW20 Prep Washer is the answer to volume utensil washing problems in your kitchen, bakery or supermarket operation. The PW10/20 occupies a minimum amount of floor space (under 48" x 43" with door open) and does not require separate dish tables. 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 key pad lets you select a 2-, 4- or 6-minute cycle; each wash cycle is followed by a dwell. After the dwell is a 10 (PW10, PW10eR, PW20) or 12 (PW20eR) second rinse. Advansys models include a 1½ to 2½ minute condensing time following the rinse cycle. The upper and lower wash arms provide thorough cleaning. Upper and lower rinse arms provide a sanitizing rinse at the end of each cycle.

The PW10/20 is only available with electric tank heat and electric booster is standard. A spray hose and nozzle is provided on the side of the machine.

Features include: sloping strainer system, pumped drain, automatic fill, and rack with inserts for trays. The flat rack can accommodate a 140-quart Hobart mixer bowl.

INSTALLATION

UNPACKING

Immediately after unpacking the PW10/PW20, check for possible shipping damage. If the machine is found to be damaged, save the packaging material and contact the carrier within 5 business days after delivery.

Prior to installation, test the electrical service to ensure that it agrees with the specifications on the data plate located on the bottom right of the upper door.

Unpacking From Pallet

Carefully unpack the machine from the pallet.

1. Remove the shipping brackets from the machine/pallet.

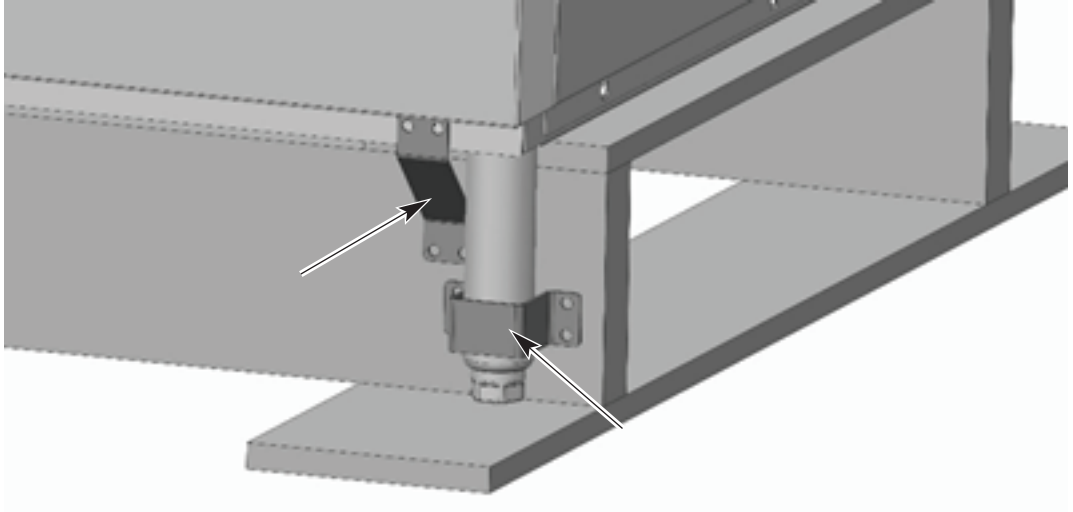


Fig. 1

2. Remove the bottom pallet boards. This can be done using a pallet jack.

NOTICE Proper care and personal equipment should be used when handling wood with exposed nails.

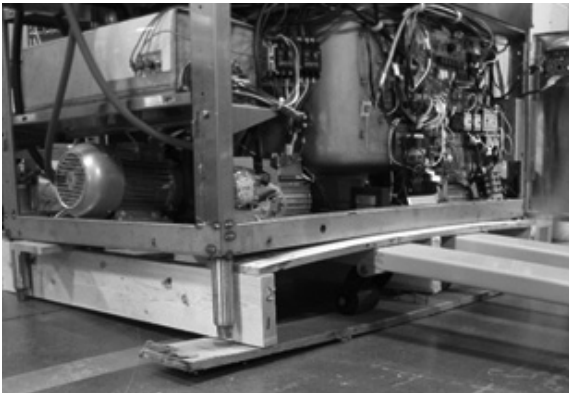


Fig. 2

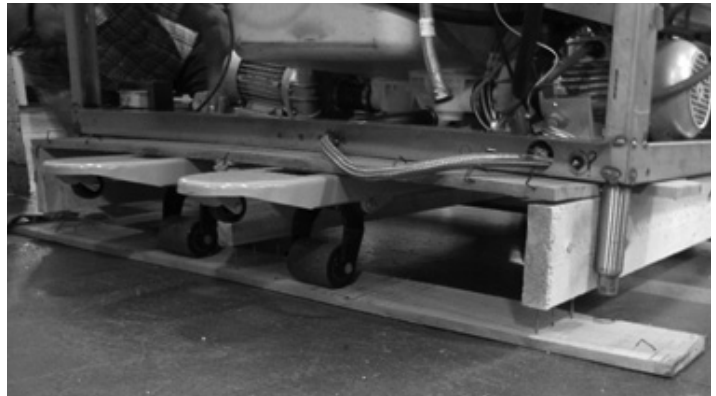


Fig. 3

3. Screw out the feet.
4. With machine resting on the feet, slide pallet out from underneath the machine.

NOTE: On the PW20 machine the pallet sides might need to be removed to make this easier.

Removing ER Section if Necessary



⚠ WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

NOTE: One ER unit is shown in the following steps. If removing both from PW20 Advansys, repeat steps 2 through 10 for each side.

1. Disconnect incoming water hose at supply connection.



Fig. 4

NOTE: Drain out any excess water in hose.

2. Remove upper wash and rinse arms.



Fig. 5

3. Remove baffles. (located under wash and rinse arms).
 - a. Remove bolt (1).
 - b. Side baffle to side to free from holding bracket (2) from opposite side of baffle.
 - c. Remove (Qty 4) nuts (3) that are holding ER assembly from inside wash area.

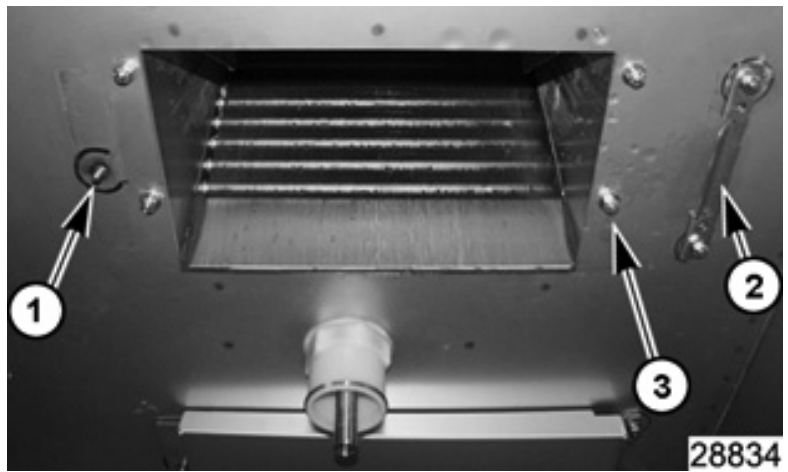


Fig. 6

2. Remove shroud.



Fig. 7

3. Remove door lock assembly cover.

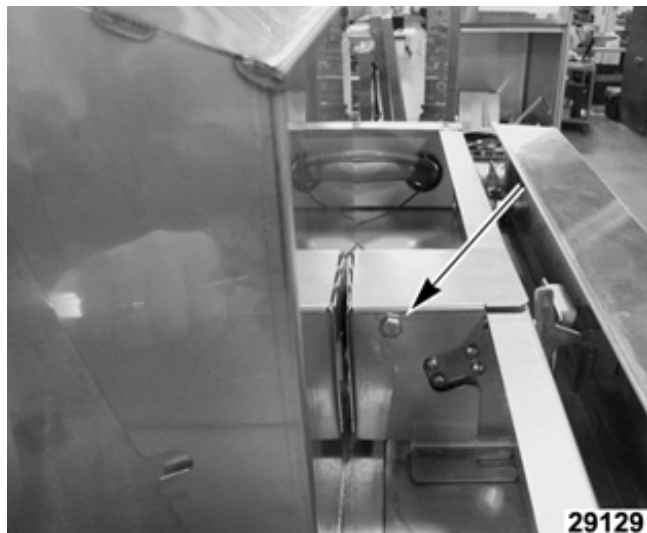


Fig. 8

4. Remove motor junction box cover.

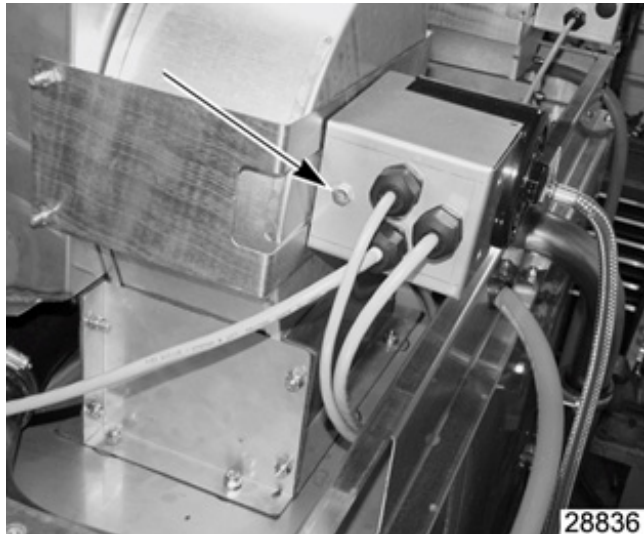


Fig. 9

5. Label motor wires for reconnecting later.



Fig. 10

6. Disconnect motor wires.

7. Disconnect water hoses connected at ER assembly.

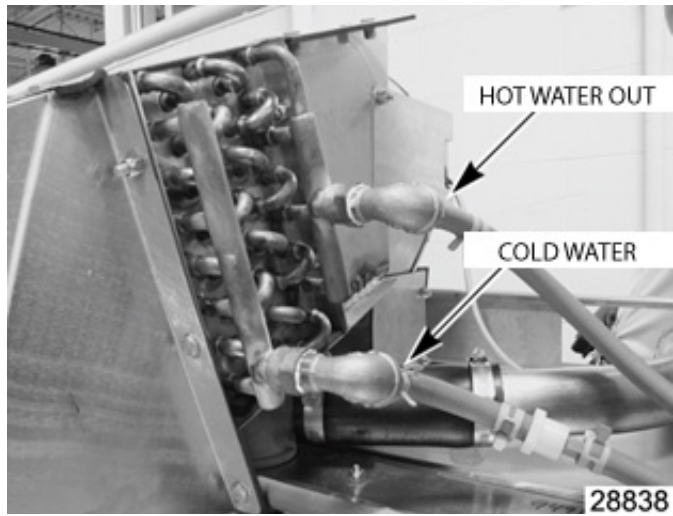


Fig. 11

8. Remove (Qty 13) mounting nuts around ER assembly.

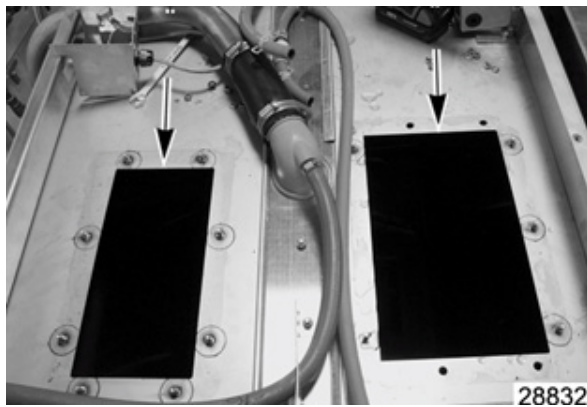


Fig. 12

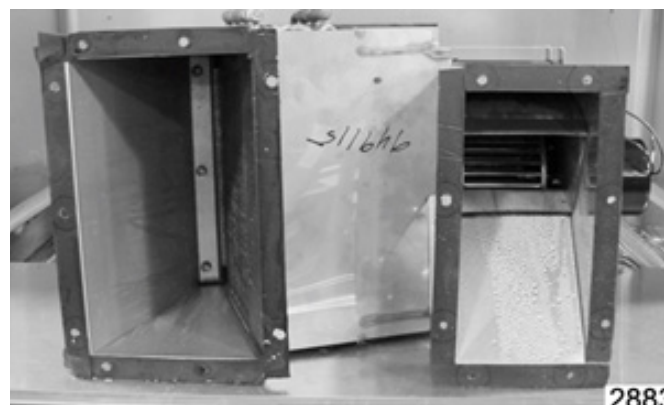
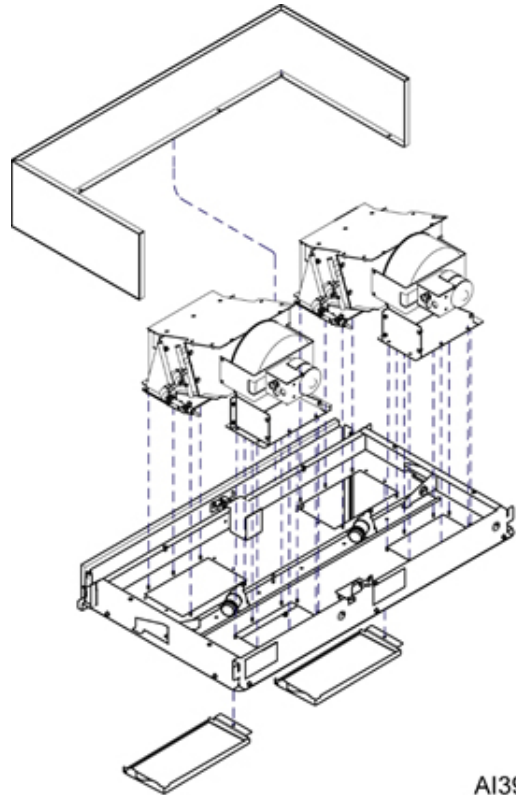


Fig. 13

9. Lift ER assembly off of machine.



AI3983

Fig. 14

10. Reverse procedure to install.

NOTE: If ER units were removed to get thru a door opening, when re-installing, remove, clean surface, and install new foam tape to the housing to ensure a proper seal.

INSTALLATION CODES

Installation must be in accordance with state and local codes, and the National Electrical Code ANSI/NFPA70 (latest edition). In Canada, the installation code is 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. Allow at least 3" at the rear and 18" at the sides of the machine for service access. Allow 16" 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 be made by a qualified person at the time of electrical installation. Do not alter local electrical code. Plumbing connections must comply with applicable safety and plumbing codes. Drain and fill line configurations vary, use methods are shown on this drawing.

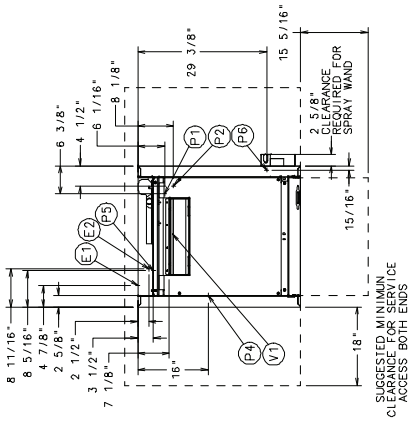
PLUMBING NOTES:

Required 1/2" water supply pressure to the diaphragm is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve must be installed in the water line to the diaphragm (by others).
 1/2" water supply pressure is required for the diaphragm.
 Pressure gauge not required on pumped rinse machines.

MISCELLANEOUS NOTES:

Backflow prevention provided by NSF-approved air gap device
 Single point electrical connection machines.
 All dimensions taken from floor line may increase 1/2" depending on leg adjustment.
 Weight (including weight): 39 lbs.

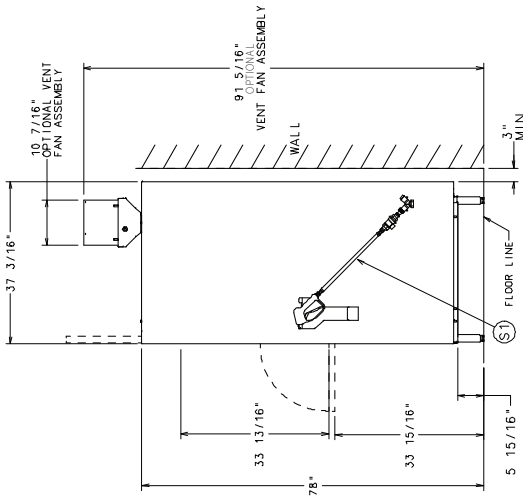
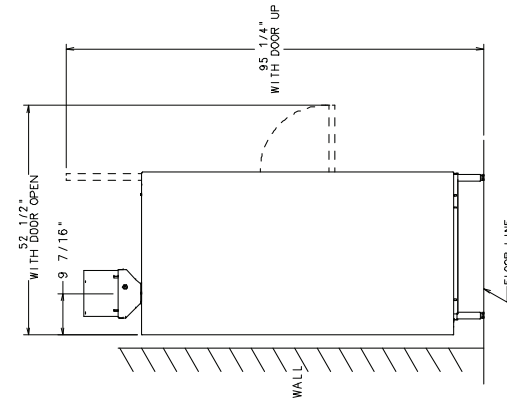
Shipping dimensions:
 35 3/4" H x 40 1/4" W x 40"
 33 3/4" H x 26 5/8" W x 2 1/4"



CONNECTION INFORMATION
 (+AFF. - ABOVE FINISHED FLOOR)

LEGEND

- E1 ELECTRICAL CONNECTION (INCLUDING ELECTRIC HEAT) CONDUIT HOLE; 7-1/16" AFF.
- E2 ELECTRICAL CONNECTION; DETERGENT/RINSE AGENT FEEDERS; 8-5/16" AFF.
- P1 HOT WATER CONNECTION; INCOMING; 110°F WATER MIN. 3/4" FEMALE GARDEN HOSE FITTING ON 6" LONG HOSE SUPPLIED WITH MACHINE. 7-3/4" AFF.
- P2 DRAIN CONNECTION; 1/2" HOSE SUPPLIED WITH MACHINE. 11-1/8" AFF.
- P3 DRAIN CONNECTION; 1/2" HOSE SUPPLIED WITH MACHINE. 12-3/8" AFF.
- P4 DETERGENT PROBE SENSOR; 14-11/16" AFF.
- P5 DETERGENT FEEDER; 31-15/16" AFF.
- P6 RINSE AGENT FEEDER; 52-3/16" AFF.
- V1 VENT EXIT; 4-9/16" X 17-3/8" EXHAUST (STANDARD) CONNECTED TO EXTERNAL VENT; IF REQUIRED, VENT FAN ASSEMBLY TO PROVIDE 400 CFM EXHAUST.
- S1 110°F MIN. 3/4" FEMALE GARDEN HOSE TEE FITTING ON ONE EITHER SIDE.



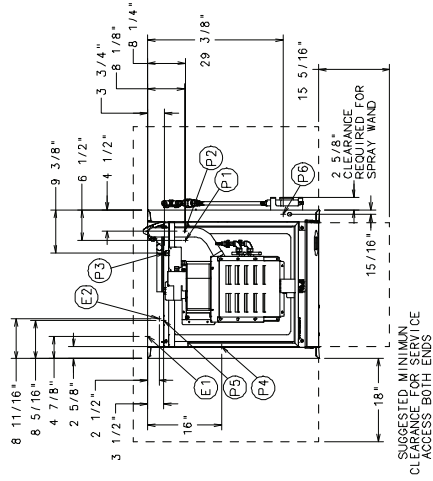
MODEL: PW10
 ELECTRIC
 00-950647
 REV B

PW10

ELC. SPECS.	RATED AMP	MINIMUM SUPPLY WATER PRESSURE (PSI)	MINIMUM OPERATING TEMPERATURE (°F)
208/60/3	47.6	60	60
240/60/3	53.0	70	70
480/60/3	128.6	35	35

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 fill, line configurations, etc., these activities are shown on this drawing.



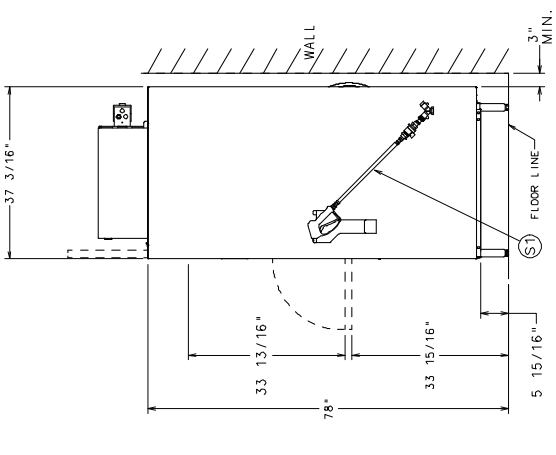
SUGGESTED MINIMUM CLEARANCE FOR SERVICE ACCESS BOTH ENDS

PLUMBING NOTES:
 Required (flushing water; pressure to the dishmachine is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve must be installed in the water line to the dishmachine (by others).
 Recommended water hardness to be 3 grains or less
 Pressure gauge not required on pumped rinse machines.

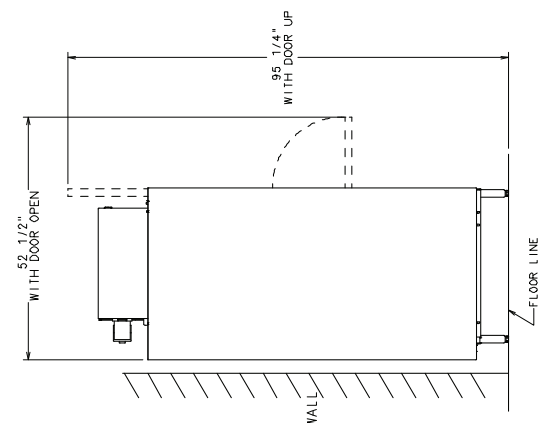
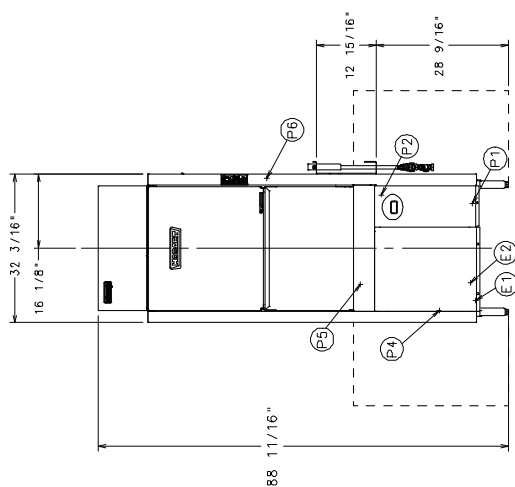
MISCELLANEOUS NOTES:
 Backflow prevention provided by NSF-approved air gap device
 Single point electrical connection machines.

MODEL	TYPICAL RATED AMPERE LOAD (A)	APPROXIMATE HEAT GAIN TO SPACE WITH INLET VENT HOOD (BTU/Hr)
PW10eR	208	18,200
		SENSIBLE 10,000
240/480		LATENT 20,100
		SENSIBLE 12,300

Vent hood is not required due to internal condensing system.
 All dimensions taken from floor line may increase 1-1/2" depending on leg adjustment.
 Net weight of machine: 512 LBS.
 Domestic shipping weight: 575 LBS.
 Shipping dimensions:
 88-3/4" H X 40-1/4" W X 40" D.
 Size of racks:
 23-3/4" X 28-11/16" X 2-1/4"



MODEL: PW10eR
 08-9-2006
 REV B



ELEC. SPEC.	RATED AMPERE LOAD (A)	MINIMUM SUPPLY VOLTAGE (V)	MINIMUM DISCONNECT (A)	MINIMUM DISCONNECT (V)
208/60/3	47.6	60	60	60
240/60/3	53.0	70	70	70
480/60/3	28.6	35	35	35

PW10eR

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:

Required flowing water pressure to the diaphragm is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve is required. Recommended water hardness to be 3 grains or less. Pressure gauge not required on pumped line machines.

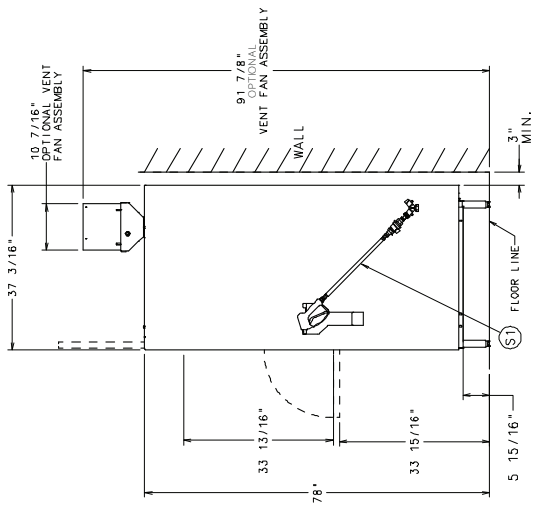
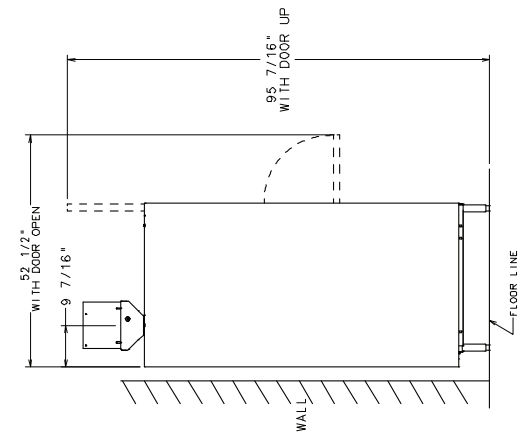
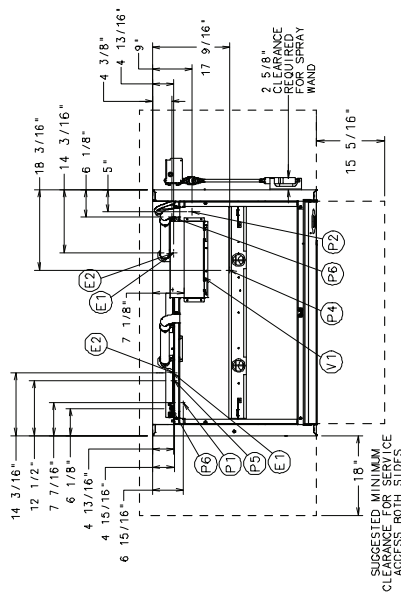
MISCELLANEOUS NOTES:

Backflow prevention provided by NSF-approved air gap device. Single point electrical connection machines. All dimensions taken from floor line unless otherwise noted. Dimensions may vary depending on leg adjustment. Dematic shipping weight is 735 lbs. Shipping dimensions: 35-7/8" H X 63-3/4" W X 49"D. 5-18-53/16" X 27-5/8" X 4-13/16"

CONNECTION INFORMATION
(+AFF = ABOVE FINISHED FLOOR)

LEGEND

- E1 ELECTRICAL CONNECTION, INCLUDING ELECTRIC HEAT
- E2 ELECTRICAL CONNECTION, INCLUDING ELECTRIC HEAT
- E3 ELECTRICAL CONNECTION, DETERGENT/RINSE AGENT FEEDERS: 7-1/8" AFF.
- P1 HOT WATER CONNECTION, INCOMING, 110°F WATER MIN. 3/4" FEMALE GARDEN HOSE FITTING ON 6" LONG HOSE SUPPLIED WITH MACHINE. 15-1/16" AFF.
- P2 SPRAY NOZZLE CONNECTION, 1/2" FEMALE GARDEN HOSE SUPPLIED WITH MACHINE. 15-1/16" AFF.
- P4 DETERGENT PROBE SENSOR: 14-3/8" AFF.
- P5 DETERGENT FEEDER: 31-5/8" AFF.
- P6 RINSE AGENT FEEDER: 50-15/16" AFF.
- V1 VENT EXIT: 4-9/16" X 17-3/8" EXHAUST (STANDARD) CONNECTED TO EXTERNAL VENT. IF REQUIRED, VENT FAN ASSEMBLY TO PROVIDE 400 CFM EXHAUST.
- S1 110°F MIN. 2 1/4" FEMALE GARDEN HOSE FITTING ON 110°F MIN. 2 1/4" FEMALE GARDEN HOSE. MOUNTABLE ON EITHER SIDE.



ELEC. SPEC.	PAVED WAYS	MINIMUM CIRCUIT CAPACITY	MAXIMUM DISCONNECT DEVICE CAPACITY
208/60/3	55.6	70	70
240/60/3	64.0	80	80
480/60/3	25.0	45	45

MODEL : PW20
ELECTRIC
00-950648
REV B

PW20

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:
 Required flowing water pressure to the distal machine is 15-65 PSI (6-4.5 bar). If water must be installed in the water line to the distal machine (by other means), Recommended water hardness to be 3 grains or less for best result.
 Pressure gauge not required on pumped rinse machines.

MISCELLANEOUS NOTES:
 Backflow prevention provided by NSF-approved air gap device
 Single point electrical connection machines.

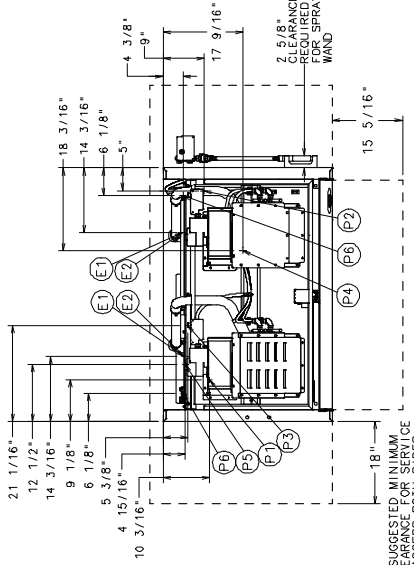
APPROXIMATE NET GAIN TO SPACE WITHOUT VENT HOOD	
MODEL	VOLUME TYPE BTU/Hr
PW20eR	208 LATENT 20,400
	248 SENSIBLE 22,300
	248/480 SENSIBLE 24,800

Vent hood is not required due to internal condensing system.
 1-1/2" depending on leg adjustment, time may increase
 Net weight of machine (est.): 725 LBS.
 Domestic shipping weight: 815 LBS.
 Shipping dimensions:
 89 7/8" H X 63-11/16" W X 40" D.
 Size of locks: 27-5/8" X 4-13/16"

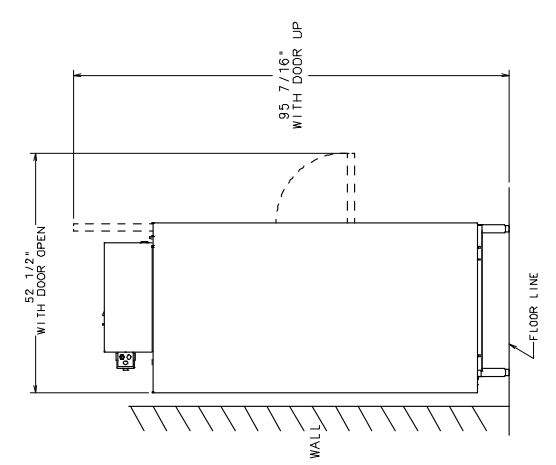
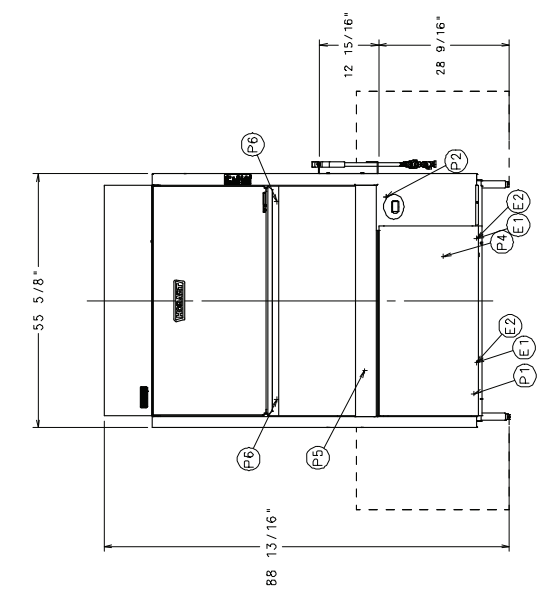
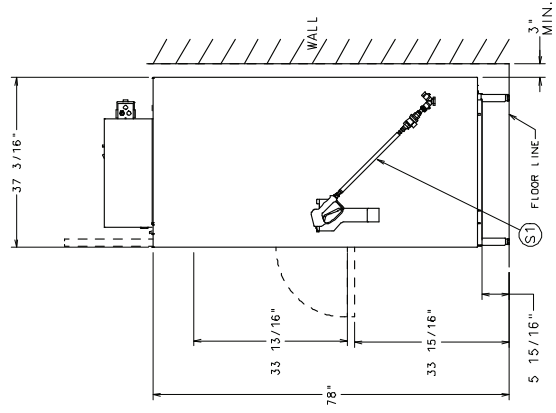
CONNECTION INFORMATION
 (* AFF - ABOVE FINISHED FLOOR)

LEGEND

- E1 ELECTRICAL CONNECTION (INCLUDING ELECTRIC HEAT) CONDENSATE HOLE, 7-1/16" AFF.
- E2 5-1/8" AFF. CONNECTION: DETERGENT/RINSE AGENT FEEDERS;
- P1 HOT WATER CONNECTION INCOMING: 10°F WATER MIN. 3/4" FEMALE GARDEN HOSE FITTING ON 6" LONG HOSE SUPPLIED WITH MACHING. 7-3/4" AFF.
- P2 RINSE CONNECTION: 7/8" BARB FITTING, 27-1/2" AFF.
- P3 6" LONG HOSE SUPPLIED WITH MACHINE.
- P4 165°F HOT WATER CONNECTION: FEMALE GARDEN HOSE FITTING ON 6" LONG HOSE SUPPLIED WITH MACHING. 76-5/8" AFF.
- P5 DETERGENT PROBE SENSOR: 14-3/8" AFF.
- P6 RINSE AGENT FEEDER: 31-5/8" AFF.
- S1 12" FEMALE GARDEN HOSE TEE FITTING ON 12" LONG HOSE SUPPLIED WITH MACHINE. MOUNTABLE ON EITHER SIDE.



PW20eR



MODEL: PW20eR
 ELECTRIC
 00-9506848
 REV B

ULC SECS.	MINIMUM PANEL CAPACITY	MAXIMUM PANEL PROTECTIVE CAPACITY
208/ED/3	158.6	70
248/ED/3	184.6	80
480/ED/3	155.0	45

PLUMBING CONNECTION(S)

⚠ WARNING Electrical and grounding connections must comply with applicable portions of the National Electrical Code (NFPA No. 70, CSA 22.1 latest edition) and/or other local electrical codes.

Water Requirements

Proper water quality can improve ware washing performance by reducing spotting, enhancing effectiveness of labor and extending equipment life. Water conditions vary from one location to another. The recommended proper water treatment for effective and efficient use of this equipment will also vary depending on the local water conditions. Ask your municipal water supplier for details about your local water conditions prior to installation.

Recommended water hardness is 3 grains of hardness per gallon or less. Higher hardness may cause excessive formation of lime scale. Water hardness above 3 grains per gallon requires water treatment. Water treatment has been shown to reduce costs associated with machine cleaning, reduce deliming of the dishwasher, and reduce detergent usage in the dishwasher. Chlorides must not exceed 50 ppm.

NOTICE High iron levels in the water supply can cause staining and may require an iron filter. High chloride levels in the water supply can cause pitting and may require a chloride removal system. Contact your local water treatment professional for proper water treatment.

Sediment may require a particulate filter. Dissolved solids may require water treatment such as a water softener, reverse osmosis system, etc. Contact your local water treatment professional for proper water treatment.

If an inspection of the dishwasher or booster heater reveals lime buildup after the equipment has been in service, water treatment is recommended. If a water softener is already in place, ensure there is a sufficient level of salt. Contact your local Hobart Service office for specific recommendations.

Water Supply Connection

The water supply line should be a ¾" male garden hose (supplied by others).

The plumber connecting this machine is responsible for making certain that water lines are THOROUGHLY FLUSHED OUT BEFORE connecting to the dishwasher. This "flush-out" is necessary to remove all foreign matter, such as chips (resulting from cutting or threading of pipes) pipe joint compound from the lines; or, if soldered fittings are used, bits of solder or cuttings from the tubing. Debris, if not removed, may lodge in the dishwasher's plumbing components and render them inoperative. Manual valves or solenoid valves fouled by foreign matter and any expenses resulting from this fouling are NOT the responsibility of the manufacturer and associated repair costs are not covered under warranty.

Water supply requirements are as follows:

WATER SUPPLY REQUIREMENTS

Model	Supply	Temperature
PW10	Hot Water	110°F Minimum
PW10eR	Cold Water	55°F Minimum, 80°F Maximum
	Hot Water	110°F Minimum
PW20	Hot Water	110°F Minimum
PW20eR	Cold Water	55°F Minimum, 80°F Maximum
	Hot Water	110°F Minimum

PW10eR and PW20eR models require both a cold water supply connection and a hot water supply connection.

NOTICE On PW10eR and PW20eR installations, the cold water supply must not exceed 80°F (27°C) for proper operation. Optimal results are obtained when cold water supply temperature is below 65°F (18°C). For best results, it may be necessary to use ½" pipe for cold water pipe size and minimize the distance between the dishwasher and the entrance into the building. Pipe insulation will also improve results.

If cold water supply temperature is consistently above 80°F (27°C) or if excessive water vapor or steam is entering the room after the condensing cycle is complete, contact Hobart Service to increase condensing time.

Required flowing water pressure to the dishmachine is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve must be installed in the water line to the dishmachine (by others). If flowing pressure is less than 15 psi, improper machine operation may result. All PW models are equipped with a pumped rinse system; therefore, a water pressure gauge is not required and is not supplied with the machine.

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.

A manual shutoff valve (not supplied) should be installed upstream of the fill hose to accommodate servicing the machine.

It is recommended that a line strainer (not supplied) be installed in the supply line between the manual shutoff valve (not supplied) and the connection point on the machine. Make plumbing connections with ½" minimum copper piping OD (¾" recommended), with a ¾" male garden hose fitting (not supplied). See installation diagrams, pages 11-14.

Plumbing Connections

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

Drain

A drain hose, 7/8" inside diameter and 6' long, is provided. This should be securely plumbed into a drain. Use care not to kink hose. See installation diagrams, pages 11-14. Drain must have a minimum flow capacity of 18 gallons per minute for PW10/PW10eR and 26 gallons per minute for PW20/PW20eR.

Venting Requirements (PW10 / PW20)

Type I or type II canopy hoods are recommended. 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 negative building pressure in the room where the unit is located (more exhaust air than outside 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/m²); the hood must be secured in place by noncombustible supports and must meet the RATE of EXHAUST FLOW CALCULATIONS.

NOTICE Make sure the installation meets the local code for your area.

Rate of Exhaust Flow Calculations (FIG. 14)

Based on the 2015 International Mechanical Code.

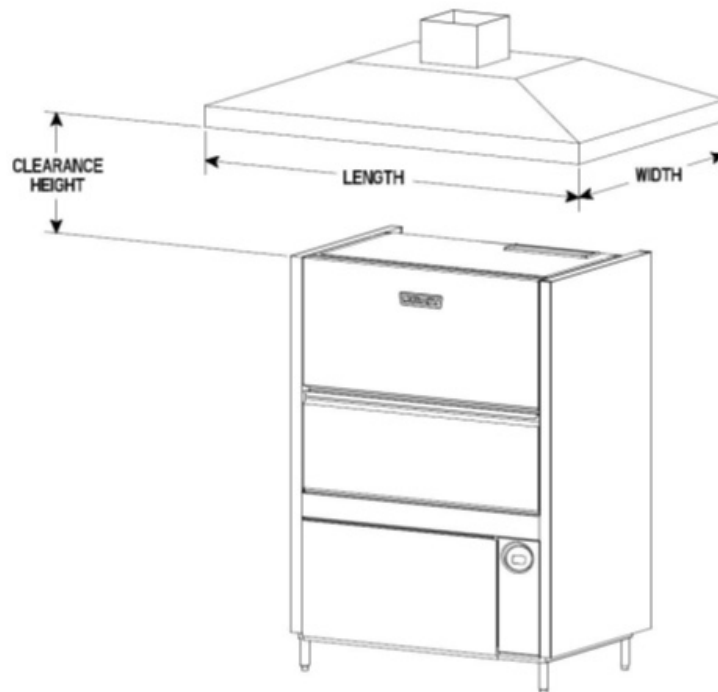


Fig. 15

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) with a minimum of 1 foot (305 mm).

18" min overhang of the front opening.

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

Rate of Exhaust Flow Calculations

Based on the 2015 International Mechanical Code.

The minimum net airflow for Type II hoods used for dishwashing appliances shall be 100 cfm per linear foot of hood length. The net quantity of exhaust air shall be calculated by subtracting any airflow supplied directly to a hood cavity from the total exhaust flow rate of a hood.

Models PW10eR and PW20eR do not require a Type II vent hood. According to 507.3 of the 2015 IMC, Type II hoods are not required where the heat and moisture loads is incorporated in the HVAC system design. See Table A for heat dissipation or heat gain to space.

Table A

HEAT DISSIPATION				
Model	Voltage		Latent Heat (BTU/HR)	Sensible Heat (BTU/HR)
PW10	208V		13,600	6,000
PW10	240V / 480V		16,800	7,300
PW10eR	208V		16,200	10,000
PW10eR	240V / 480V		20,100	12,300
PW20	208V		17,100	7,500
PW20	240V / 480V		20,400	8,900
PW20eR	208V		20,400	12,500
PW20eR	240V / 480V		24,300	14,800

Chemical Feeder Installations

This machine must be operated with an automatic detergent feeder, including a visual means to verify that detergents are delivered or a visual or audible alarm to signal if detergents are not available for delivery to the washing system. Chemical feeders are supplied by others. For electrical connection, refer to Equipment Connections, page 21.

Detergent Feeder (Optional By Others)

If installing a detergent feeder (by others), remove cap to expose 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 1/8" NPT pipe plug(s) to access the tapped hole in the rinse tee on the right side of the machine (PW10/PW10eR) and on the back of the machine (PW20/PW20eR). There are 2 rinse tees for the PW20/PR20eR machines.

Delime Feeder (standard) on Advansys models only (PW10eR/ PW20eR)

A delime feeder with tubing and standpipe is provided to automatically dispense delime agent when needed.

Vent Exit (PW10 / PW20)

A vent exit (4-9/16 " x 17-3/8") is provided in the top of the machine to allow for expansion of air. It must not be directly connected to an external vent.

Vent Fan Control (Standard); Power Vent Fan (Optional) PW10/PW20

The Vent Fan Control provides switching for a vent fan (by others). The vent hood comes on when the PW10/20 is on and goes off when the PW10/20 is off. The Power Vent Fan option exhausts moist air from the chamber after the rinse cycle is finished. The Power Vent fan may be selected to operate for 40, 60 or 80 seconds. The Power Vent Fan kit (field installed only) extends upward 12 1/4" above the vent exit (13 5/16" above the top of the wash chamber) and terminates in a round duct connection for a 101/4" O.D. duct.

Install power vent fan kit using a maximum 60 ft of 10" diameter straight duct; or, 50 ft straight and two (2) 90°elbows, or equivalent. Distances greater than the stated maximum lengths may reduce venting efficiency.

ELECTRICAL CONNECTION(S)

⚠ WARNING Electrical and grounding connections must comply with applicable portions of the National Electrical Code (NFPA No. 70, latest edition) and/or other local electrical codes.



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

Connect incoming power to the control box in accordance with the wiring diagram located on the back of the front trim panel.

ELECTRICAL DATA		
PW10 / PW10eR (Single Point Connection)		
Volts/Hz/ph	Rated Amps	Circuit Size* Amps
208/240/60/3	47.6 / 53.0	60 / 70
480/60/3	28.6	35
PW20 / PW20eR (Single Point Connection)		
Volts/Hz/ph	Rated Amps	Circuit Size* Amps
208/240/60/3	58.6 / 64.0	70 / 80
480/60/3	35.0	45

* 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(s)

Before using the machine, check the pump motor rotation to be sure it is rotating in the right direction.

PW10 / PW10eR

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

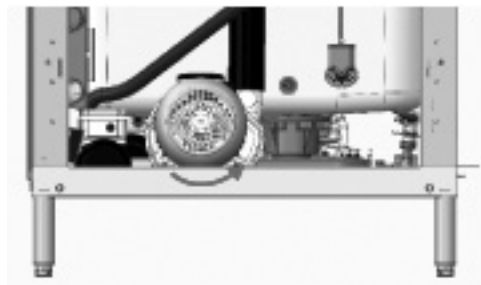


PW10 (Rear View)
Fig. 16

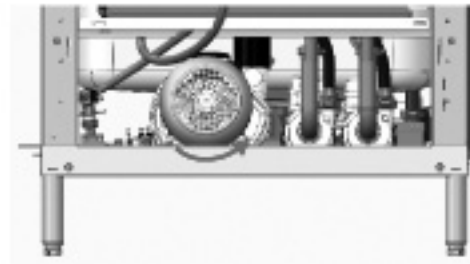
PW20 / PW20eR

Pump motor 1 – Looking from the right side of the machine, the correct rotation is counterclockwise. Inspection is easiest from the right side using a flashlight to check the motor fan on the rear of the motor.

Pump motor 2 – Looking from the left side of the machine, the correct rotation is counterclockwise. Inspection is easiest from the left side using a flashlight to check the motor fan on the rear of the motor.



PW20 (right view)



PW20 (left view)

Fig. 17

If the pump motor(s) is/are rotating in the wrong direction, follow this procedure.



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

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

EQUIPMENT CONNECTIONS

⚠ WARNING Electrical and grounding connections must comply with applicable portions of the National Electrical Code (NFPA No. 70, latest edition) and/or other local electrical codes.



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

Vent Fan Control

The vent fan control feature is standard on PW10 and PW20 models. This feature is not available on PW10eR and PW20eR models. The vent fan control relay provides switch contacts only and does not provide power to the vent fan motor. The rating for a vent fan control relay connected to terminals VFC1 and VFC2 is 1.5 amps at supply voltage. When the prepwasher is connected to the vent fan, the vent fan is switched on when the prepwasher is on, and off when the prepwasher is off.

Detergent Feeder

The maximum rating for a detergent dispenser connected to DPS1 and DPS2 is 1.5 amps at line voltage. Refer to Chemical Feeder Installations, page 18.

Rinse Aid Feeder

The maximum rating for a rinse aid dispenser connected to RPS1 and RPS2 is 1.5 amps at line voltage. Refer to Chemical Feeder Installations, page 18.

OPERATION

CONTROLS



Fig. 18

Operating the PW Prep Washer

DO THIS	DISPLAY SHOWS	REMARKS
Press ON	Model number	Dishwasher performs self-check. This takes 5 seconds.
	FILL and fill icon lit; sump temperature displayed when machine is filling. WARMING UP and warming up icon are displayed when booster is preheating on models. This preheat could take up to 25 minutes.	Dishwasher fills with water. If door is opened during fill cycle, fill will stop. After door is closed, the process continues where it stopped.
	During fill, sump temperature is displayed.	When filled, machine will maintain an idle state. Heat is maintained in both sump and booster.
Open door; slide rack out to load ware. When loading is complete, slide rack into dishwasher. Close door.	READY lit and sump temperature displayed.	Detergent contacts will be activated during wash cycle. Rinse contacts turned on during rinse cycle for external dispenser.
Press WASH (Green Arrow).	WASH and wash icon lit; sump temperature displayed during wash cycle. RINSE and rinse icon lit; rinse temperature displayed during rinse cycle. CONDENSE and condense icon lit (Advansys models only). EXHAUST (base models with Vent Fan Control only).	Machine initiates a wash and rinse cycle. If door is opened during wash, rinse, or drain cycle, cycle will continue at point where door was opened upon closing door. If POWER is pressed during cycle, machine will drain and shut down

DO THIS	DISPLAY SHOWS	REMARKS
When cycle is complete, reload machine for next wash/rinse cycle; or, if not in use, machine will maintain idle mode.	READY lit and sump temperature displayed.	Machine will drain and shut down if the four hour idle shut-down time is reached.
At the end of the day, press POWER.	DRAIN and SHUTDOWN IN PROGRESS are displayed; then the machine shuts down.	When POWER key is pressed, machine will drain and shut down.

SELECT WASH CYCLE and press START

CYCLE	DESCRIPTION
2	A 2-minute wash cycle is followed by a 10 or 12-second fresh water rinse (Advansys models have 99-190 second condensing cycle).
4	A 4-minute wash cycle is followed by a 10 or 12-second fresh water rinse. (Advansys models have 99-190 second condensing cycle).
6	A 6-minute wash cycle is followed by a 10 or 12-second fresh water rinse. (Advansys models have 99-190 second condensing cycle).
All rinse cycles are followed by a 5 second pause.	

Minimum Wash tank temperature is 150°F. Minimum Rinse temperature is 180°F.

PROGRAMMING

Manager Mode Programing

The PW series prep washer's microprocessor allows customization options for machine operation. To activate or change these features, the programming edit mode must be entered.

The manager programming mode requires a MANAGER CODE to be entered to access the options listed in the PARAMETER MENU. The manager codes is 1001.

CHANGING PARAMETERS ENTER MANAGER SECURITY CODE: 1001

→ MANAGER MENU → → ENTER SECURITY CODE → (for 1) → (for 0) → (for 0) → (for 1) Edit Parameters

CHANGING PARAMETERS IS REQUIRED TO CHANGE ALL CODES BELOW

DELIME enables or disables the delime reminder alert.

→ until DELIME → → to enable or disable →

OR → until EXIT MENU → → until EXIT →

LOW TEMP ALARMS enables or disables alert indicating that the final rinse temperature has been below the minimum temperature for a period of time.

→ until LOW TEMP ALARMS → → to enable or disable →

OR → until EXIT MENU → → until EXIT →

END CYCLE AUDIO ALERT enable or disable the unit creating an audio alert at the end of each wash cycle.

→ until END CYCLE AUDIO ALERT → → to enable or disable →

OR → until EXIT MENU → → until EXIT →

TEMPERATURE UNITS allows the choice of Fahrenheit or Celsius.

→ until TEMPERATURE UNITS → → to choose Fahrenheit or Celsius

→ OR → until EXIT MENU → → until EXIT →

DIRTY WATER INDICATOR disables or gives a choice of how many cycles the machine will run between dirty water alert and refresh cycles.

→ until DIRTY WATER INDICATOR → → to Disable, 20 cycles, 40 cycles, or 60 cycles →

OR → until EXIT MENU → → until EXIT →

ENERGY SAVER MODE disables or gives choice of how many hours before the unit will stay on before entering energy saving mode.

→ until ENERGY SAVING MODE → → to Disabled, 1 Hour, 2 Hours, or 3 Hours

→ OR → until EXIT MENU → → until EXIT →

LANGUAGE allows the choice of English, French or Spanish language.



OR → until EXIT MENU → → until EXIT →

WASH PROGRAM allows the customization of total run time.



EXIT MENU TO MAIN MANAGER MENU



DELIME NOW allows for a single delime cycle to be run from the menu at anytime.

Note: this operation takes up to 1 hour 45 minutes depending on conditions. The machine will automatically shut down at the end of delime cycle.



Programming Instructions

All customization is performed through the on-screen menu using the UP arrow, MENU/DOWN arrow, and ENT keys located on the keypad on the lower right of the machine (Fig. 4).

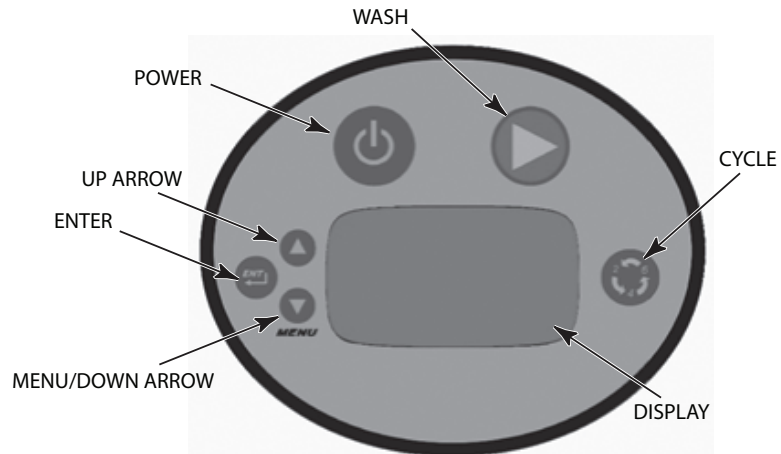


Fig. 19

Menu Display Prompts

The following prompts are used inside the menus:

- The UP arrow and MENU/DOWN arrow keys are used to change parameter values and to navigate the menu.
- The ENT key is used to accept a value, to perform a specific action, or to enter a submenu.

On PW10eR and PW20eR Advansys models, the door is locked and must remain closed until the condensing cycle is completed. During the condense cycle a countdown icon shows the remaining cycle time. When the cycle is finished and the condense icon disappears and the condensing cycle light turns off and the door is unlocked. Open the door and pull out the rack to remove the clean ware. Load soiled ware onto rack and push rack into the machine. Close the door.



**Recommended Condense Time
(Based on Incoming Water Temperature)**

Incoming Water Temp °F (°C)	PW10eR			PW20eR		
	Rinse Time (Sec.)	Condense Time (Sec.)	Racks per Hour (2 min. cycle)	Rinse Time (Sec.)	Condense Time (Sec.)	Racks per Hour (2 min. cycle)
60 (16) – 64 (18)	10	99	13	12	98	13
64 (18) – 72 (22)	12	119	12	14	114	12
72 (22) – 80 (27)	14	139	11	16	131	11
80+ (27+)	16	158	10	18	147	10

For Advansys models only – If excessive amounts of steam or water vapor exit the machine after condensing cycle light goes out and door is opened, incoming cold water temperature may be too high.

Contact Hobart Service to adjust the rinse and condense times according to the adjustment table. Increasing cycle time will increase water consumption and decrease the racks per hour, but should reduce the water vapor entering the room.

General Operating Instructions

Keep the prep 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 prep 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 prep 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 prep washer. Never use steel wool on ware to be loaded into the prep washer. Use only products formulated to be safe on stainless steel. Do not use deliming agent on outside of machine. Rinse items thoroughly after scrubbing to remove metallic debris.

CLEANING



⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

The prep washer must be thoroughly cleaned at the end of each working shift. Use only product formulated to be safe on stainless steel. Never use steel wool to clean machine surfaces.

1. Spray down inside of machine with wand (Fig. 20).



Fig. 20

2. Press POWER. The machine will drain. (Fig. 7).



Fig. 21

NOTE: Shutting off the machine causes a full automatic drain, which takes about 3 minutes for a PW10 and about 3-1/2 minutes for a PW20.

3. Remove tray and racks.

4. The wash and rinse arms are easily removed for cleaning. 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.
 - a. To remove upper rinse arm and wash arm (Fig. 22):
 - i. Unscrew the rinse arm by loosening the tabbed ring at top of rinse arm
 - ii. Remove both Rinse and Wash arms at the same time, being careful not to drop these arms.
 - iii. Reverse the process to replace. Spin arms to make sure they spin freely.
 - b. To remove lower rinse arm and wash arm (Fig.23).
 - i. Unscrew the rinse arm by loosening the tabbed ring at bottom of rinse arm.
 - ii. Remove both Rinse and Wash arms at the same time, being careful not to drop these arms.
 - iii. Reverse the process to replace. Spin arms to make sure they spin freely.



Fig. 22



Fig. 23

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

6. Spray down sump (Fig. 24).



Fig. 24

7. Turn machine back on for 2 minutes to fill.
8. Turn off machine again to flush sump.
9. With a damp cloth, wipe the interior and exterior of the machine. DO NOT use steel wool. Remove any remaining debris with a mild cleanser formulated for stainless steel and a soft cloth or brush.
10. Carefully reinstall the strainer pans and strainer basket.
11. Use a soft, damp cloth or sponge and mild cleanser to clean the control keypad and display. DO NOT use abrasive or harsh cleaners or scouring pads.
12. Leave the doors open to allow the interior to dry and air out.

NOTICE Do not use spray hose to spray down exterior of machine.

For Models PW10eR and PW20eR

In addition to normal cleaning, the baffles, located on the upper chamber on the inside of the machine, may need periodic cleaning. Note that the PW20eR will have two sets of baffles.



WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

1. Loosen and remove the nut from the front baffle(s) and remove baffle(s) by sliding the tab out of the retainer.

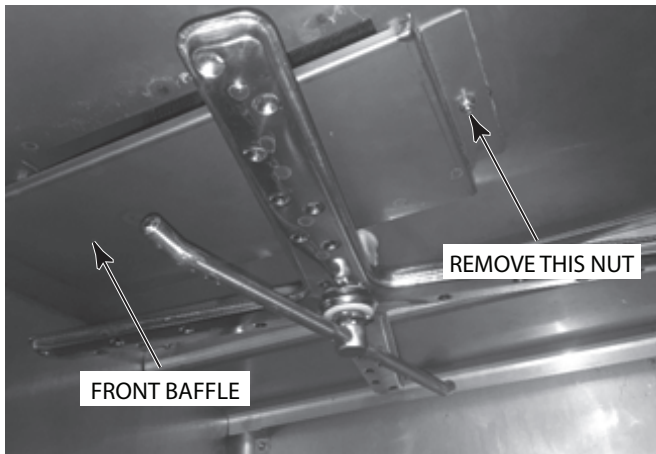


Fig. 25

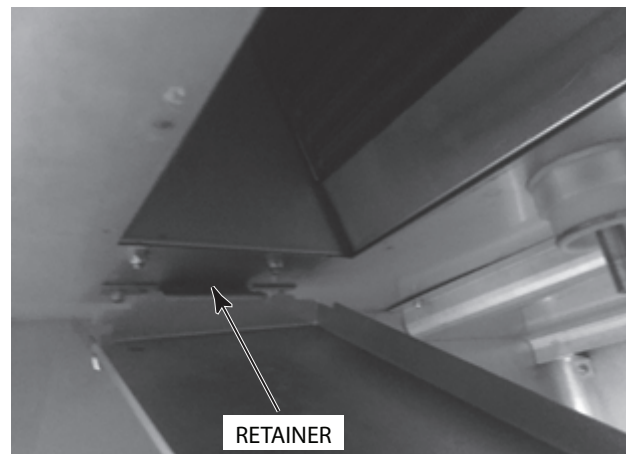


Fig. 26

2. Debris may collect on the top surface of baffles and should be washed in a sink with mild detergent and rinsed.
3. Replace all removed parts.
4. Leave machine door open to allow interior to air out and dry.

DO'S AND DON'TS FOR YOUR NEW HOBART DISHWASHER

DO ensure proper water hardness of 3 grains or less per gallon. 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, at the end of the day, complete a manual cleaning cycle as needed; thoroughly cleanse the machine, rinse, and dry (leave doors open).

DO closely follow the machine's 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, rinse aid or lime scale remover.

DO NOT use steel wool to clean ware or dishwasher 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 dishwasher warranty.

MAINTENANCE

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 ELECTRIC POWER SUPPLY, rotate arms and remove any obstructions causing improper operation. Refer to CLEANING THE PREP WASHER on pages 27-31.

If the strainer pans 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, on the wash and rinse arms and tank heater. Inspect the machine interior for lime deposits. If deliming is necessary, a deliming agent (such as Lime-A-Way® or LSR®) should be used for best results.

All Prep washers are equipped with an automatic delime cycle reminder. It is recommended that deliming be done when DELIME RECOMMENDED is lit. PW10eR and PW20eR models are equipped with an internal delime pump which will automatically pump the required amount of deliming agent into the unit. All PW10eR/PR20eR models are equipped with an automatic deliming system. At installation, a qualified Hobart Service technician or your chemical supplier must adjust the total water hardness setting to properly set the delime intervals.

Remove the deliming agent bottle cap and put the black delivery tube in the container. Be sure to push the delivery tub standpipe completely to the bottom of the container. Check to make sure there are no obstructions or kinks in the delivery tube.

After the preprogrammed number of cycles has expired, the control will indicate the delime request by displaying DELIME RECOMMENDED and will prompt 'would you like to delime now?'. You must enter 'Yes' or 'No' to proceed with a delime cycle or to continue with normal machine operation. If 'No' is selected, the machine will continue to notify the operator at each start-up and power down until the delime cycle is completed. To delime the unit.

1. Press the MENU/DOWN Arrow key until the '>' symbol is shown to the left of 'YES' and press the ENT key.
2. Remove rack from the machine.
3. Remove strainers from the machine and clean. Replace strainers and rack and close door.
4. On PW10er/PW20eR machines, ensure delimer chemical container is not empty. Be sure to push the delivery tube standpipe completely to the bottom of the container. Check to make sure there are no obstructions or kinks in the delivery tube.
5. Press ENT key to enter the delime mode. The machine will drain and refill with fresh water.
6. On PW10/PW20 machines, after the deliming agent has been added, close the door. Press the ENT key to continue the cycle. The machine will enter the wash mode for about 25 minutes, then will begin two rinse and drain operations. Total time to complete the delime operation will be about 45 minutes. ON PW10eR/PW20eR machines, the unit will automatically enter the wash mode for about 40 minutes, then will begin several rinse and drain operations after the fill cycle is complete. Total time to complete the delime operation will be about 1 hour 40 minutes.
7. After deliming operation is completed, the machine will shut down.
8. Inspect the interior of the machine for lime deposits. If necessary, another delime cycle can be initiated by entering Manager Programming Mode.

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. Low water level. Water conditions:</p> <ul style="list-style-type: none"> — Incorrect rinse water temperature. Refer to WATER SUPPLY CONNECTION, page 15. — Excessive water hardness may indicate that a water softener is needed. — Incorrect detergent type or concentration for water conditions. — Incorrect rinse additive for water conditions. Inadequate rinse. — Dirty line strainer causing reduced water flow. Turn off water supply. Remove fill hose and check strainer. Withdraw and clean screen. Reassemble. — Excessive mineral deposits throughout wash and rinse system. Deliming may be necessary. <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> <p>Loss of water pressure due to pump obstruction.</p> <ul style="list-style-type: none"> — DISCONNECT ELECTRIC POWER SUPPLY. Drain tank and check for obstruction at the strainers, basket and pump intake. <p>Insufficient detergent dispensing.</p> <ul style="list-style-type: none"> — Check supply or detergent supplier. <p>Excessive mineral deposits throughout wash and rinse system.</p> <ul style="list-style-type: none"> — Deliming may be necessary. — Excessive water hardness may indicate that a water softener is needed. <p>Prep washer was not cleaned properly. Refer to CLEANING THE PREP WASHER, pages 27-31.</p> <p>Wash arm blocked with debris. Refer to WASH AND RINSE ARMS, page 32.</p>
Machine won't operate	<p>Fuse blown or circuit breaker tripped.</p> <p>Check water level in tank.</p>
Leaking valves	<p>Solenoid valves.</p> <ul style="list-style-type: none"> — Contact service. — Check valve on spray hose — 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.
No wash tank heat	<p>The low water detector will shut off heat if water level is too low.</p> <ul style="list-style-type: none"> — Check water level. <ul style="list-style-type: none"> • Fuse blown or circuit breaker tripped. • Heater failure • Overtemperature protector tripped — Contact service.
No fill or slow fill	<p>Dirty line strainer causing reduced water flow.</p> <ul style="list-style-type: none"> — Turn off water supply. Disconnect fill hose and remove strainer. Clean screen. Reassemble.

SERVICE

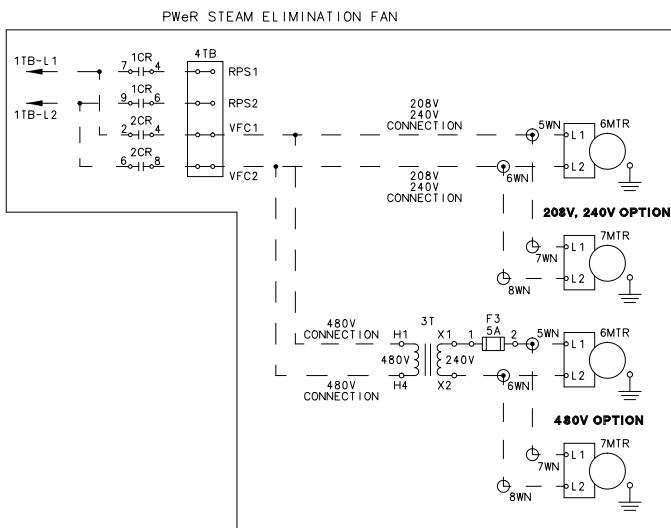
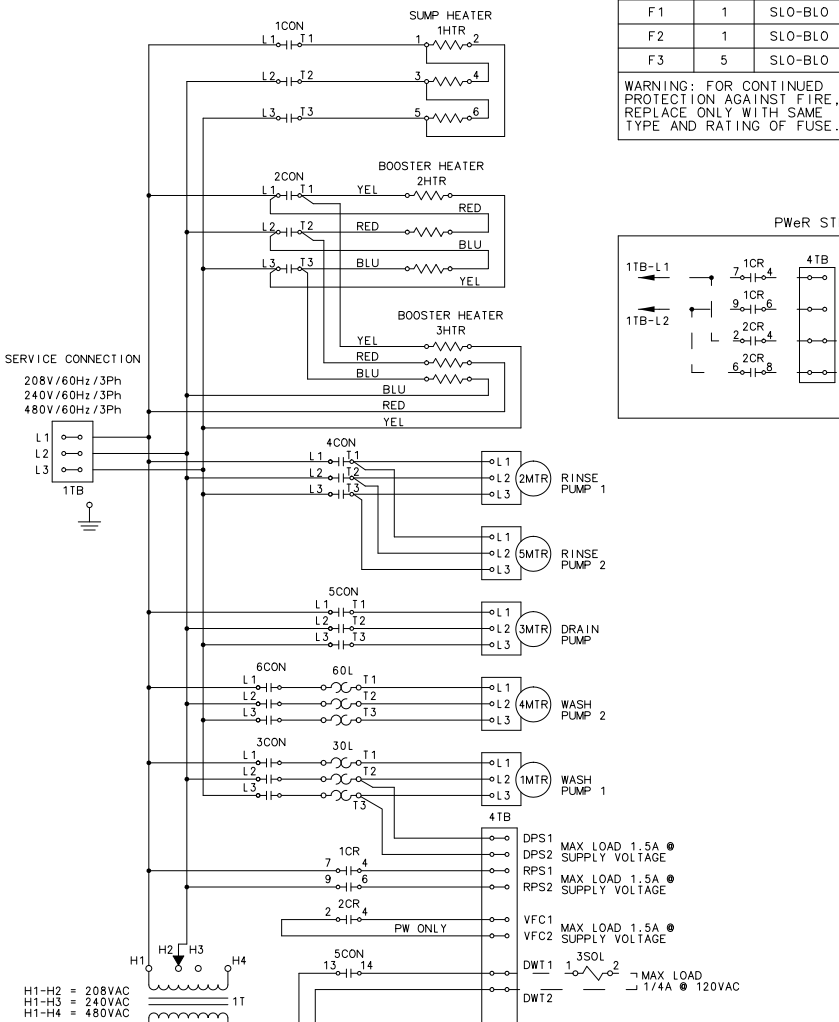
Contact your Hobart service office for any repairs or adjustments needed on this equipment. Long-term service contracts are available on this and other Hobart products.

WARNING Electrical and grounding connections must comply with the applicable portions of the National Electrical Code, ANSI/NFPA 70, latest edition, and/or other local electrical codes.

FUSE CHART		
REF DES	AMPS	TYPE
F1	1	SLO-BLO
F2	1	SLO-BLO
F3	5	SLO-BLO

WARNING: FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

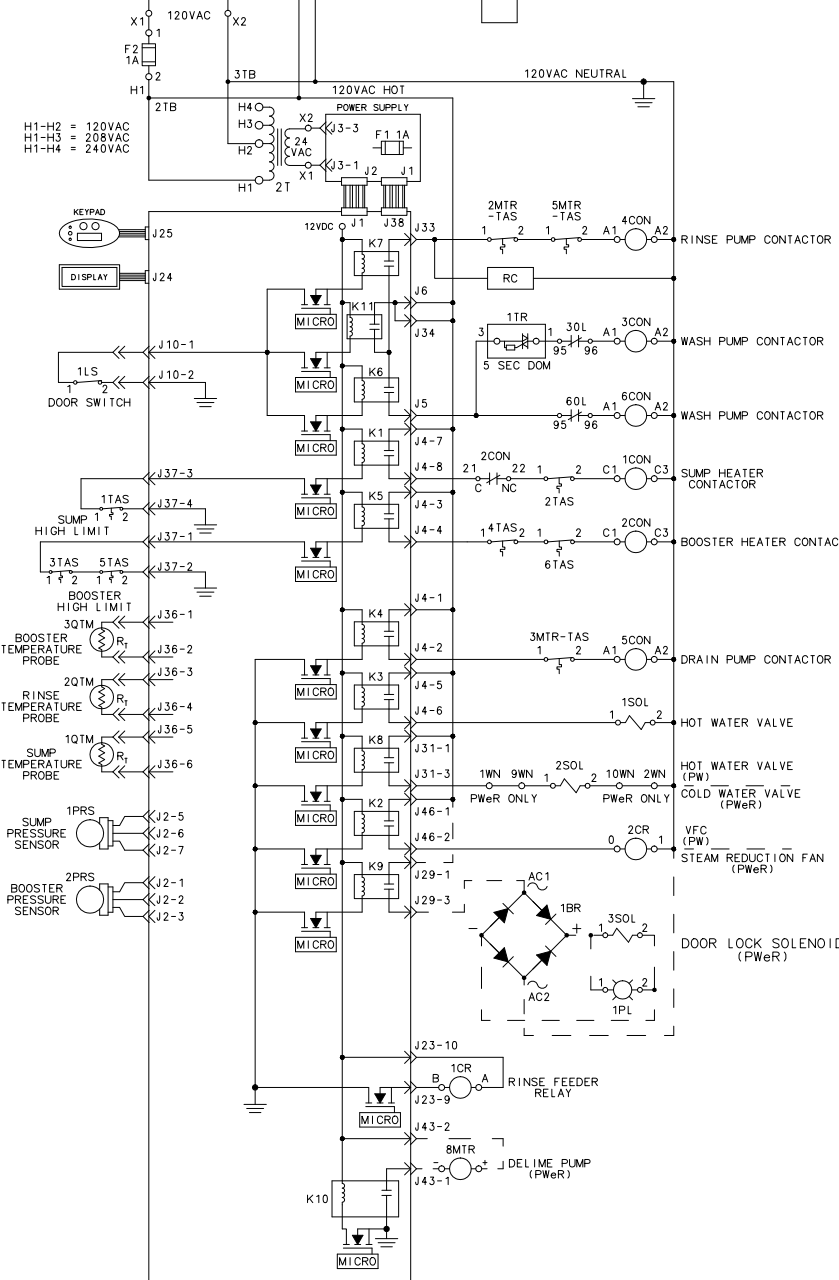
ELEC. SPECS.	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
208/60/3	58.6	70	70
240/60/3	64.0	80	80
480/60/3	35.0	45	45



SYMBOL DEFINITIONS

- TB TERMINAL BLOCK
- T TRANSFORMER
- QTM TEMPERATURE PROBE
- HTR HEATER
- NO CONTACT- NORMALLY OPEN (N.O.)
- NC CONTACT- NORMALLY CLOSED (N.C.)
- CR CONTROL RELAY COIL
- CON CONTACTOR
- SOL SOLENOID
- LS DOOR SWITCH
- TR TIMER DELAY ON MAKE
- FU FUSE/FUSIBLE
- GND GROUND
- TAS THERMALLY ACTIVATED SWITCH
- PL LIGHT
- MICRO MICROCONTROLLER
- SEPARABLE CONNECTION
- INSEPARABLE CONNECTION
- SOLID LINE STD EQUIPMENT
- DASHED LINE OPTIONAL WIRING.
- ER ENERGY RECOVERY
- WIRE NUT (eR ONLY)
- RC SNUBBER

OVERLOAD SETTINGS	
VOLTAGE	WASH PUMPS
208-240	11.0
480	6.5



F-47530B
 ELECTRICAL DIAGRAM
 PW20, PW20eR
 208/60/3
 240/60/3
 480/60/3



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CATALOG OF REPLACEMENT PARTS

PW PREP WASHERS



PW20ER Shown



PW10ER Shown

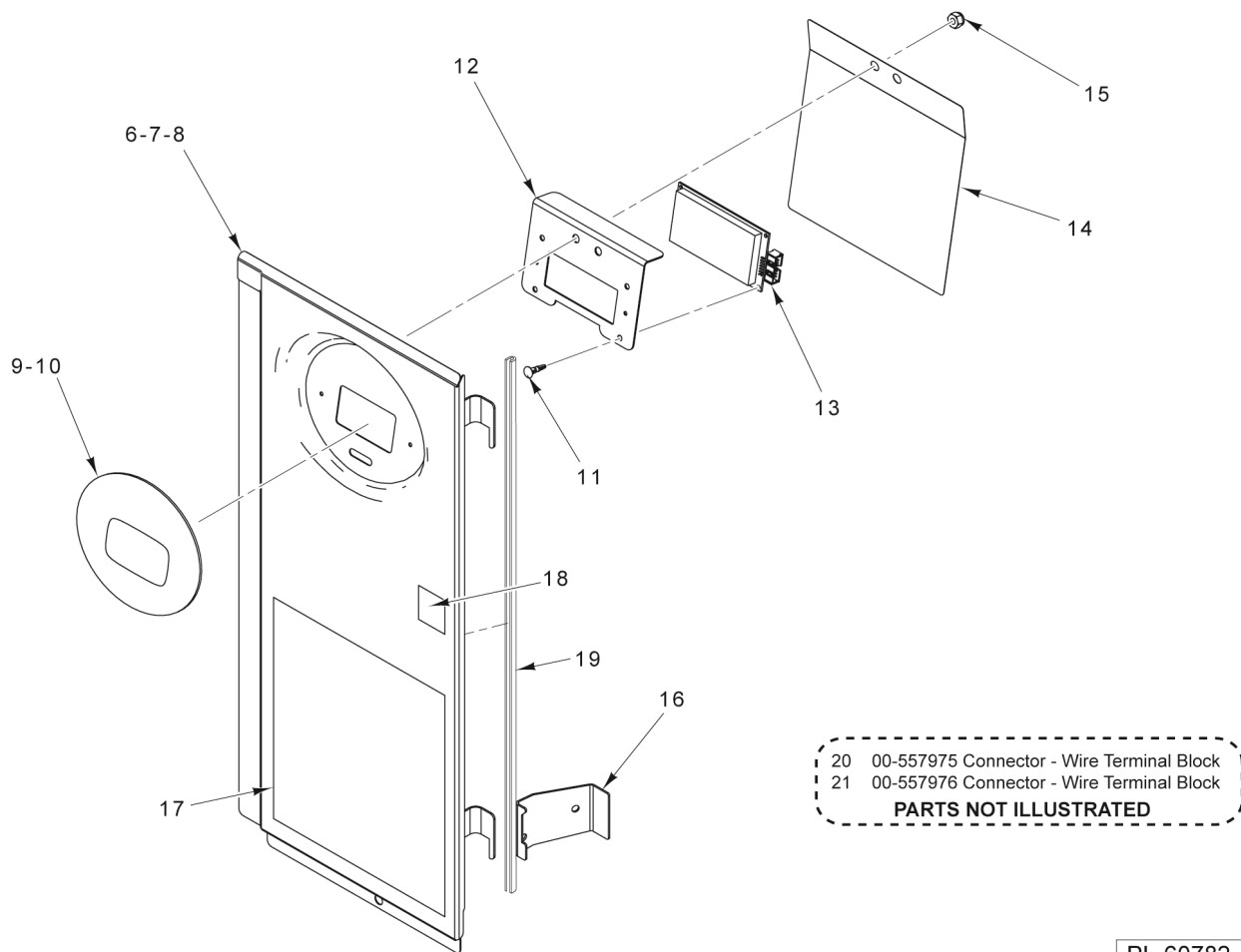
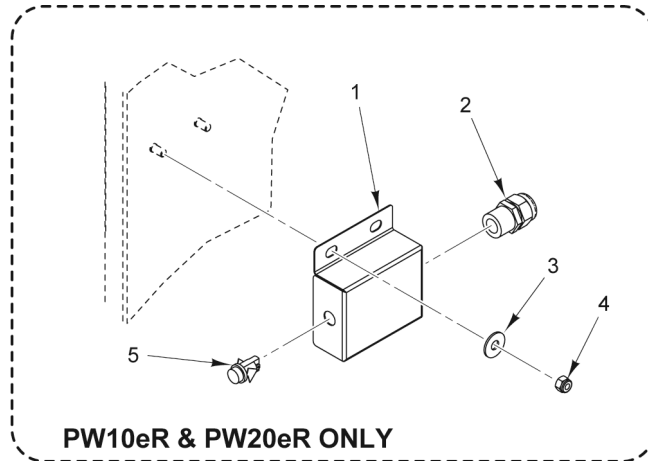
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ML-130290
ML-130291
ML-130292
ML-130293
ML-130346
ML-130347

PW10
PW10eR
PW20
PW20eR
PWV
PWVeR

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51 EXHAUST VENT ASSEMBLY
53 RACK, CABLES, SHELF, AND MISCELLANEOUS (PWV)
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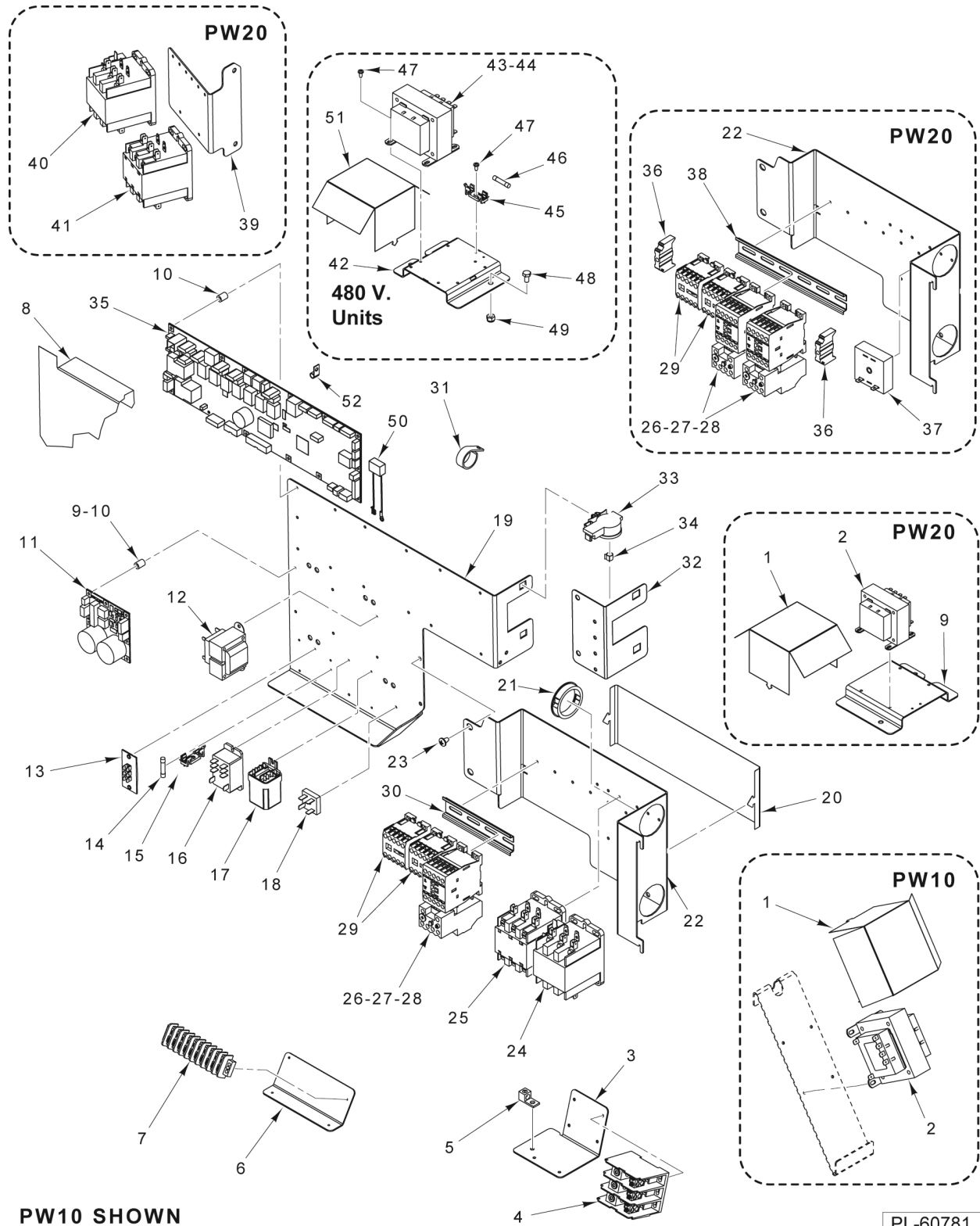


PL-60782

CONTROLS

CONTROLS

ILLUS.	PART NO.	NAME OF PART	AMT.
1	00-950403	Enclosure - Warning Light.....	1
2	FE-022-84	Connector - Strain Relief.....	1
3	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	2
4	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
5	00-941175-00003	Light - Indicator Amber.....	1
6	00-948746-00001	Keypad Panel Assy. (Standard) (Incls. Items 8, 9, & 11 thru 15).....	1
7	00-948746-00002	Keypad Panel Assy. (Advansys) (Incls. Items 8 & 10 thru 15).....	1
8	00-948769	Control Door.....	1
9	00-948626-00002	Membrane - Keypad (Standard).....	1
10	00-948626-00001	Membrane - Keypad (Advansys).....	1
11	00-941790-00001	Clip - Board.....	4
12	00-948707	Bracket - Display Mount.....	1
13	00-941548-00002	Display - Graphic.....	1
14	00-974050	Cover - Display.....	1
15	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
16	00-974038	Hinge.....	2
17	0F-047571	Label (Information).....	1
18	00-935986	Label - Energy Star.....	1
19	00-557960	Grommet.....	2
20	00-557975	Connector - Wire Terminal Block (3 Connector).....	1
21	00-557976	Connector - Wire Terminal Block (2 Connector).....	1



ELECTRICAL COMPONENTS

ELECTRICAL COMPONENTS

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60781			
1	00-950229	Cover - Mylar.....	2
2	00-294500-052-1	Transformer (100 VA.) (50/60 Hz.).....	1
3	00-948998	Bracket - Mount.....	1
4	00-949047	Block - Terminal (175 Amp.).....	1
5	00-118544-00002	Lug - Grounding.....	1
6	00-948996	Bracket - Mount.....	1
7	00-949045	Block - Terminal (2-Row, 600 V.).....	1
8	00-949013	Mylar - Control Board.....	1
9	00-948997	Bracket - Mounting.....	1
10	00-329056-00001	Standoff (PW20).....	AR
11	00-941941	Board - Power Supply.....	1
12	00-941947	Transformer (24 V., 30 Amp.).....	1
13	00-294325-00009	Terminal Board Assy.....	2
14	FE-022-29	Fuse (250 V.) (1 Amp.).....	1
15	00-294436-00003	Block - Fuse.....	1
16	00-087714-046-1	Relay (2-Pole) (30 Amp.).....	1
17	00-949011	Relay (DPDT).....	1
18	00-473660	Rectifier (Previous Construction).....	1
19	00-949109	Plate - Base (Controls).....	1
20	00-974117	Mylar - Contactor.....	1
21	FE-024-23	Bushing - Electrical (Snap).....	2
22	00-949110	Plate - Base (Contactor).....	1
23	SD-035-77	Self-Tapping Screw 1/4-20 x 3/8 Phil. Pan Hd., Type TT.....	2
24	00-087713-018-2	Contactor (W/Aux. Switch) (40 Amp., 3-Pole) (PW10).....	1
25	00-918322	Contactor (40 Amp., 3-Pole) (PW10).....	1
26	00-949891	Contactor.....	AR
27	00-949362-00009	Relay - Overload (208/240 V. Only).....	AR
28	00-949362-00008	Relay - Overload (480 V.).....	AR
29	00-948104	Contactor (8 Amp., 3-Pole).....	2
30	00-948824-00002	Rail - Din (5-3/8 In.) (PW10).....	1
31	00-294677-00004	Clamp - Wire (1 I.D.).....	9
32	00-974378	Bracket - Mount (Pressure Sensor).....	1
33	00-775866-00002	Sensor - Pressure.....	2
34	00-113156-00001	Clamp - Spring Action Hose.....	2
35	00-941944-00003	Board - Master.....	1
36	00-949805	Stop - End (PW20).....	2
37	00-087714-031-2	Relay - Time Delay (5 Sec.) (PW20).....	1
38	00-948824-00003	Rail - Din (8-1/4 In.) (PW20).....	1
39	00-948995	Bracket - Mount (PW20).....	1
40	00-087713-018-2	Contactor (W/Aux. Switch) (40 Amp., 3-Pole) (PW20).....	1
41	00-918322	Contactor (40 Amp., 3-Pole) (PW20).....	1
42	00-949041	Bracket - Mount (480 V. Units).....	1
43	00-294500-00053	Transformer 500 VA (208-240/480 V.) (480 V. eR Models Only).....	1
44	00-949038-00037	Wire - Jumper (480 V. eR Models Only).....	1
45	00-294436-00003	Block - Fuse (480 V. eR Models Only).....	1
46	FE-023-25	Fuse (5.0 Amp., 250 V.) (480 V. eR Models Only).....	1
47	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	3
48	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	2
49	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
50	00-974352	Snubber Assy.....	1
51	00-950229-00002	Cover - Mylar.....	1
52	00-294677-00001	Clamp - Wire (1/4 In.).....	1

PW PREP WASHERS REPLACEMENT PARTS

ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
1	CONTACTORS TO MOTORS HARNESS	4CON	2MTR	00-949021	PW10
		5CON	3MTR		
			4TB		
2	1TB TO CONTACTORS HARNESS	1TB	3CON	00-949024	PW10
			4CON		
			5CON		
3	24V HARNESS	2T	PWR SUPPLYJ3	00-949025	PW10 / PW20
4	RINSE DRAIN CONTACTORS HARNESS	J4	2TB	00-949026	PW10
			1SOL		
			4TAS		
			2CON		
			3MTR		
			5CON		
		3TB	1SOL		
5	TANK HEATER HARNESS	1CON	1HTR	00-949027	PW10
6	HIGH LIMIT HARNESS	J37	1TAS	00-949028	PW10
			3TAS		
			5TAS		
7	POWER DISTRIBUTION/DOOR SWITCH HARNESS	1CR	1TB	00-949031	PW10
		2TB	5CON		
		F2	1T		
		J10	1LS		
		J5	3OL		
		J33	2MTR		
		4CON			
		2T	3TB		
		1T			
		3TB	2CON		
		1CON	3CON		
		5CON	4CON		
		3OL	3CON		
8	WASH MOTOR HARNESS (LOW VOLTAGE)	1MTR	MTR CONNECTOR	00-949033	PW10 / PW20
9	12V BOARD POWER HARNESS	PWR SUPPLY J2	J1	00-949034	PW10 / PW20
10	1TB TO PWR XFMR HARNESS	1TB	1T	00-949035	PW10
11	BRIDGE RECT / DOOR LOCK HARNESS	J29	1BR	00-949036	PW10 / PW20
			2TB		
		J6	J34		
12	1TB TO HEAT CONTACTORS HARNESS	1TB	1CON	00-950117	PW10
			2CON		
13	SIGNAL TO MAIN BD HARNESS	PWR SUPPLY J1	J38	00-950118	PW10 / PW20
14	FUSE TO 2TB & 2T HARNESS	F2	2TB	00-950157	PW10 / PW20
		2T			
15	1T TO FUSE HARNESS	F2	1T	00-950161	PW20
		1T	3TB		
		2T			

PL-60834

HARNESSES

HARNESSES

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60834			
1	00-949021	Harness - Contactors to Motors.....	1
2	00-949024	Harness - 1TB to Contactors.....	1
3	00-949025	Harness - 24V.....	1
4	00-949026	Harness - Rinse Drain Contactors.....	1
5	00-949027	Harness - Tank Heater.....	1
6	00-949028	Harness - High Limit.....	1
7	00-949031	Harness - Power Distribution / Door Switch.....	1
8	00-949033	Harness - Wash Motor (Low Voltage).....	1
9	00-949034	Harness - 12V Board Power.....	1
10	00-949035	Harness - 1TB to Pwr. Xfmr.....	1
11	00-949036	Harness - Bridge Rect. / Door Lock.....	1
12	00-950117	Harness - 1TB to Heat Contactors.....	1
13	00-950118	Harness - Signal to Main Board.....	1
14	00-950157	Harness - Fuse to 2TB & 2T.....	1
15	00-950161	Harness - 1T to Fuse.....	1

PW PREP WASHERS REPLACEMENT PARTS

ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
16	DRAIN PUMP MOTOR HARNESS	5CON	3MTR	00-950164	PW20
17	DOOR SWITCH HARNESS	J10	1LS	00-950165	PW20
18	HIGH LIMIT HARNESS	J37	1TAS	00-950166	PW20
			3TAS		
19	TANK HEATER HARNESS	1CON	1HTR	00-950167	PW20
20	CON TO WASH PUMP HARNESS (RH)	3OL	1MTR	00-950168	PW20
21	PWR TO SOL VALVE & HL HARNESS	J4	2TB	00-950171	PW20
			3MTR		
			2CON		
			4TAS		
			1SOL		
		3TB	1CON		
		2CON			
22	1TB TO PUMP CONTACTORS HARNESS	1TB	3CON	00-950172	PW20
			6CON		
			5CON		
			4CON		
23	1TB TO HT CON PMP PWR HARNESS	1TB	1CON	00-950173	PW20
			2CON		
		3OL	DPS		
		6OL	4MTR		
		1TB	1T		
		4CON	SP-1		
		2MTR			
		5MTR			
		4CON	SP-2		
		2MTR			
		5MTR			
		4CON	SP-3		
		2MTR			
		5MTR			
		J33	2MTR		
		4CON	5MTR		
2MTR	5MTR				
24	PWR DIST HARNESS	1CR	5CON	00-950176	PW20 / PW20eR
		2TB			
		DWT			
		J5	1TR		
		6OL	6CON		
		3TB			
		3CON			
			5CON		
		4CON			
6CON	6OL				
25	2SOL HARNESS	2SOL	3TB	00-950221	PW20
			J31		
		2TB			
		2CR	J46		

PL-60869

HARNESSES (CONTINUED-1)

HARNESSES (CONTINUED-1)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60869			
16	00-950164	Harness - Drain Pump Motor.....	1
17	00-950165	Harness - Door Switch.....	1
18	00-950166	Harness - Wire Harness - High Limit.....	1
19	00-950167	Harness - Wire Harness - Tank Heater.....	1
20	00-950168	Harness - Wire Harness - Con to Wash Pump.....	1
21	00-950171	Harness - Pwr. to Sol. Valve & HL.....	1
22	00-950172	Harness - 1TB to Pump Contactors.....	1
23	00-950173	Harness - 1TB to HT Con. Pump Pwr.....	1
24	00-950176	Harness - Pwr. Dist.....	1
25	00-950221	Harness - 2Sol.....	1

ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
26	WASH PUMP HARNESS	3OL	1MTR	00-950557	PW10
			4TB		
27	WASH MOTOR HARNESS (HI VOLTAGE)	1MTR	MTR CONN	00-950601	PW10 / PW20
28	1SS/1CON to 2TAS HARNESS	2TAS	1CON	00-950622	PW10
			2CON		
29	2TB TO J6, J34 HARNESS	2TB	J6	00-950623	PW10
		J34			
30	2CR / 2SOL HARNESS	2SOL	3TB	00-950624	PW10
			J31		
		2TB	J46		
		2CR			
31	DOOR LOCK HARNESS	1BR	1PL	00-974030	PW10 / PW20

PL-60870

HARNESSES (CONTINUED-2)

HARNESSES (CONTINUED-2)

ILLUS. PL-60870	PART NO.	NAME OF PART	AMT.
26	00-950557	Harness - Wash Pump.....	1
27	00-950601	Harness - Wash Motor (Hi Voltage).....	1
28	00-950622	Harness - 1SS/1CON to 2TAS.....	1
29	00-950623	Harness - 2TB to J6.....	1
30	00-950624	Harness - 2CR/2SOL.....	1
31	00-974030	Harness - Door Lock.....	1

ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
1	LEAD WIRE ASSY	GND	DISP-GND	00-949038-00001	PW10, PW10eR, PW20, PW20eR
2	LEAD WIRE ASSY	4TAS-2	6TAS-1	00-949038-00003	PW10, PW10eR
3	LEAD WIRE ASSY	6TAS-2	2CON-C1	00-949038-00004	PW10, PW10eR
4	LEAD WIRE ASSY	4TAS-1	6TAS-1	00-949038-00010	PW20, PW20eR
5	LEAD WIRE ASSY	6TAS-2	2C)N-C1	00-949038-00011	PW20, PW20eR
6	LEAD WIRE ASSY	2CR-6	1CON-L2	00-949038-00013	PW10eR, PW20eR PWR VENT KIT
7	LEAD WIRE ASSY	2TAS-1	2C)N-NC	00-949038-00015	PW20, PW20eR
8	LEAD WIRE ASSY	2CR2	1CON-L1	00-949038-00016	PW10eR, PW20eR PWR VENT KIT
9	LEAD WIRE ASSY	2TAS-2	1CON-C1	00-949038-00017	PW20, PW20eR
10	LEAD WIRE ASSY	2CR-4	4TB-VFC1	00-949038-00019	PW10, PW10eR, PW20, PW20eR
11	LEAD WIRE ASSY	2CR-8	4TB-VFC2	00-949038-00020	PW10eR, PW20eR PWR VENT KIT
12	LEAD WIRE ASSY	1TR-1	3OL-95	00-949038-00022	PW20, PW20eR
13	LEAD WIRE ASSY	2CR-1	3TB	00-949038-00023	PW10, PW10eR, PW20, PW20eR
14	LEAD WIRE ASSY	GND	3TB	00-949038-00024	PW10, PW10eR, PW20, PW20eR
15	LEAD WIRE ASSY	3TB	4TB-DWT2	00-949038-00025	PW10, PW10eR, PW20, PW20eR
16	LEAD WIRE ASSY	3OL-96	3CON-A1	00-949038-00026	PW20, PW20eR
17	LEAD WIRE ASSY	1CR-4	4TB-RPS1	00-949038-00027	PW10, PW10eR, PW20, PW20eR
18	LEAD WIRE ASSY	1CR-6	4TB-RPS2	00-949038-00028	PW10, PW10eR, PW20, PW20eR
19	LEAD WIRE ASSY	3TB	1BR-AC2	00-949038-00029	PW10eR, PW20eR
20	LEAD WIRE ASSY	2CR-2	4TB-VFC2	00-949038-00032	PW10, PW20
21	LEAD WIRE ASSY	4TB-VFC1	3T-H1	00-949038-00033	PW20eR HI VOLT
22	LEAD WIRE ASSY	4TB-VFC2	3T-H4	00-949038-00034	PW20eR HI VOLT
23	LEAD WIRE ASSY	4TB-VFC1	3T-H1	00-949038-00035	PW10eR HI VOLT
24	LEAD WIRE ASSY	4TB-VFC2	3T-H4	00-949038-00036	PW10eR HI VOLT
25	LEAD WIRE ASSY	F3-1	3T-X1	00-949038-00037	PW10eR / PW20eR HI VOLT
26	LEAD WIRE ASSY	4TB-VFC1	4T-H1	00-949038-00038	PWR VENT KIT
27	LEAD WIRE ASSY	4TB-VFC2	4T-HX	00-949038-00039	PWR VENT KIT
28	LEAD WIRE ASSY	F4-1	4T-X1	00-949038-00040	PWR VENT KIT

PL-65067

LEAD WIRE ASSEMBLY

LEAD WIRE ASSEMBLY

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-65067			
1	00-949038-00001	Lead Wire Assy. (GND to DISP-GND) PW10, PW10ER, PW20, PW20ER.....	1
2	00-949038-00003	Lead Wire Assy. (4TAS-2 to 6TAS-1) PW10, PW10ER.....	1
3	00-949038-00004	Lead Wire Assy. (6TAS-2 to 2CON-C1) PW10, PW10ER.....	1
4	00-949038-00010	Lead Wire Assy. (4TAS-2 to 6TAS-1) PW20, PW20ER.....	1
5	00-949038-00011	Lead Wire Assy. (6TAS-2 to 2CON-C1) PW20, PW20ER.....	1
6	00-949038-00013	Lead Wire Assy. (2CR-6 to 1CON-L2) PW10ER, PW20ER Power Vent Fan Kit.....	1
7	00-949038-00015	Lead Wire Assy. (2TAS-1 to 2CON-NC) PW20, PW20ER.....	1
8	00-949038-00016	Lead Wire Assy. (2CR-2 to 1CON-L1) PW10ER, PW20ER Power Vent Fan Kit.....	1
9	00-949038-00017	Lead Wire Assy. (2TAS-2 to 1CON-C1) PW20, PW20ER.....	1
10	00-949038-00019	Lead Wire Assy. (2CR-4 to 4TB-VFC1) PW10, PW10ER, PW20, PW20ER.....	1
11	00-949038-00020	Lead Wire Assy. (2CR-8 to 4TB-VFC2) PW10ER, PW20ER Power Vent Fan Kit.....	1
12	00-949038-00022	Lead Wire Assy. (1TR-1 to 3OL-95) PW20, PW20ER.....	1
13	00-949038-00023	Lead Wire Assy. (2CR-1 to 3TB) PW10, PW10ER, PW20, PW20ER.....	1
14	00-949038-00024	Lead Wire Assy. (GND to 3TB) PW10, PW10ER, PW20, PW20ER.....	1
15	00-949038-00025	Lead Wire Assy. (3TB to 4TB-DWT2) PW10, PW10ER, PW20, PW20ER.....	1
16	00-949038-00026	Lead Wire Assy. (3OL-96 to 3CON-A1) PW20, PW20ER.....	1
17	00-949038-00027	Lead Wire Assy. (1CR-4 to 4TB-RPS1) PW10, PW10ER, PW20, PW20ER.....	1
18	00-949038-00028	Lead Wire Assy. (1CR-6 to 4TB-RPS2) PW10, PW10ER, PW20, PW20ER.....	1
19	00-949038-00029	Lead Wire Assy. (3TB to 1BR-AC2) PW10ER, PW20ER.....	1
20	00-949038-00032	Lead Wire Assy. (2CR-2 to 4TB-VCF2) PW10, PW20.....	1
21	00-949038-00033	Lead Wire Assy. (4TB-VFC1 to 3T-H1) PW20ER High Voltage.....	1
22	00-949038-00034	Lead Wire Assy. (4TB-VFC2 to 3T-H4) PW20ER High Voltage.....	1
23	00-949038-00035	Lead Wire Assy. (4TB-VFC1 to 3T-H1) PW10ER High Voltage.....	1
24	00-949038-00036	Lead Wire Assy. (4TB-VFC-2 to 3T-H4) PW10ER High Voltage.....	1
25	00-949038-00037	Lead Wire Assy. (F3-1 to 3T-X1) PW10ER, PW20ER High Voltage.....	1
26	00-949038-00038	Lead Wire Assy. (4TB-VCF1 to 4T-H1) Power Vent Kit.....	1
27	00-949038-00039	Lead Wire Assy. (4TB-VFC2 to 4T-HX) Power Vent Kit.....	1
28	00-949038-00040	Lead Wire Assy. (F4-1 to 4T-XT) Power Vent Kit.....	1

PW PREP WASHERS REPLACEMENT PARTS

ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
1	FAN/SOL VALVE CABLE	J31	9WN (2SOL)	00-949029	PW10eR
		J46	2TB		
			2CR		
		3TB	10WN (2SOL)		
2	FANS TO 2SOL CABLE	9WN	2SOL	00-950155	PW20eR
		10WN			
3	FAN TO FAN CABLE	1WN	9WN (2SOL)	00-950156	PW20eR
		2WN	10WN (2SOL)		
		5WN (6MTR)	7WN (7MTR)		
		6WN (6MTR)	8WN (7MTR)		
		GND	GND		
4	CONTROL TO FAN1 CABLE	J31	1WN	00-950175	PWEeR
		J46	2TB		
			2CR		
			3TB		
5	XFMR TO FAN CABLE	F3	5WN	00-974051	PW20eR
		3T	6WN		
		GND	GND		
6	CONTROL TO SOLENOID CABLE	J31	1WN	00-974052	PWeR
		J46	2TB		
			2CR		
			3TB		
7	PWeR VALVE CABLE	J31	9WN	00-974053	PW10
		J46	2TB		
			2CR		
			3TB		
8	XFMR TO FAN CABLE	F3	6MTR	00-974054	PW10
		3T			
		GND			
9	KEYPAD CABLE ASSY	J25	JKPD	00-974057	PW10, PW20
10	RINSE FEEDER RELAY CABLE ASSY	J23	1CR	00-974058	PW10, PW20
11	DELIME PUMP CABLE ASSY	J43	8MTR	00-974059	PW10eR
12	PRESSURE SENSORS CABLE ASSY	J2	BSTR	00-974060	PW10, PW20
			TANK		
13	DELIME PUMP CABLE ASSY	J43	8MTR	00-974061	PW20eR
14	TEMP PROBES CABLE ASSY	J36	J3QTM	00-974063	PW20
			J2QTM		
			J1QTM		
15	DOOR SWITCH CABLE	1PL	3SOL	00-974159	PW10eR, PW20eR

PL-65068

CABLES

CABLES

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-65068			
1	00-949029	Fan / Sol Valve Cable.....	1
2	00-950155	Cable - Fans to 2Sol.....	1
3	00-950156	Cable - Fan to Fan Cable.....	1
4	00-950175	Cable - Control to Fan1.....	1
5	00-974051	Cable - Xfmr. to Fan.....	1
6	00-974052	Cable - Control to Solenoid.....	1
7	00-974053	Cable - PWER Valve.....	1
8	00-974054	Cable - Xfmr. to Fan.....	1
9	00-974057	Keypad Cable Assy.....	1
10	00-974058	Rinse Feeder Relay Cable Assy.....	1
11	00-974059	Delime Pump Assy.....	1
12	00-974060	Pressure Sensors Cable Assy.....	1
13	00-974061	Delime Pump Cables Assy.....	1
14	00-974063	Temp. Probes Cable Assy.....	1
15	00-974159	Cable - Door Switch.....	1

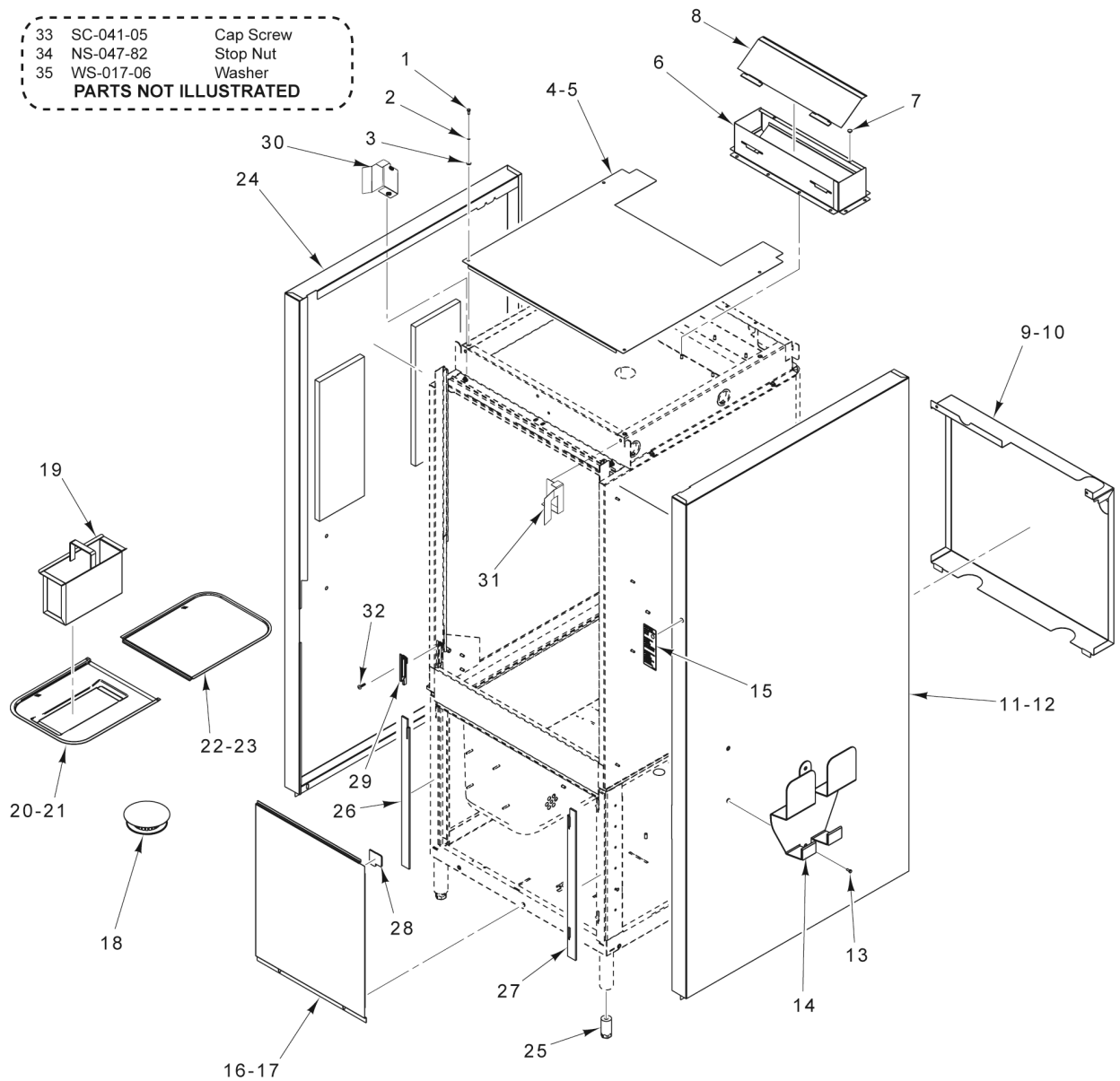
ITEM	NOMENCLATURE	END 1	END 2	PN	USED ON
16	POWER VENT KIT CABLE	F4	8MTR	00-974202	PW10, PW20
		4T			
17	DISPLAY CABLE ASSY	J24	JD	00-974224	PW10, PW20
18	FAN CABLE	4TB	5WN	00-974322	PW10eR
			6WN		
		GND	GND		
19	FAN CABLE	4TB GND	6MTR GND	00-974323	PW20eR
20	DWT CABLE	DWT	CONNECTOR	00-974374	DWT KIT
21	TEMP PROBES CABLE ASSY	J36	J1QTM	00-974062	PW10
			J2QTM		
			J3QTM		



CABLES (CONTINUED)

CABLES (CONTINUED)

ILLUS. PL-65069	PART NO.	NAME OF PART	AMT.
16	00-974202	Cable - Power Vent Kit.....	1
17	00-974224	Display Cable Assy.....	1
18	00-974322	Cable - Fan.....	1
19	00-974323	Cable - Fan.....	1
20	00-974374	Cable - DWT.....	1
21	00-974062	Temp Probes Cable Assy.....	1



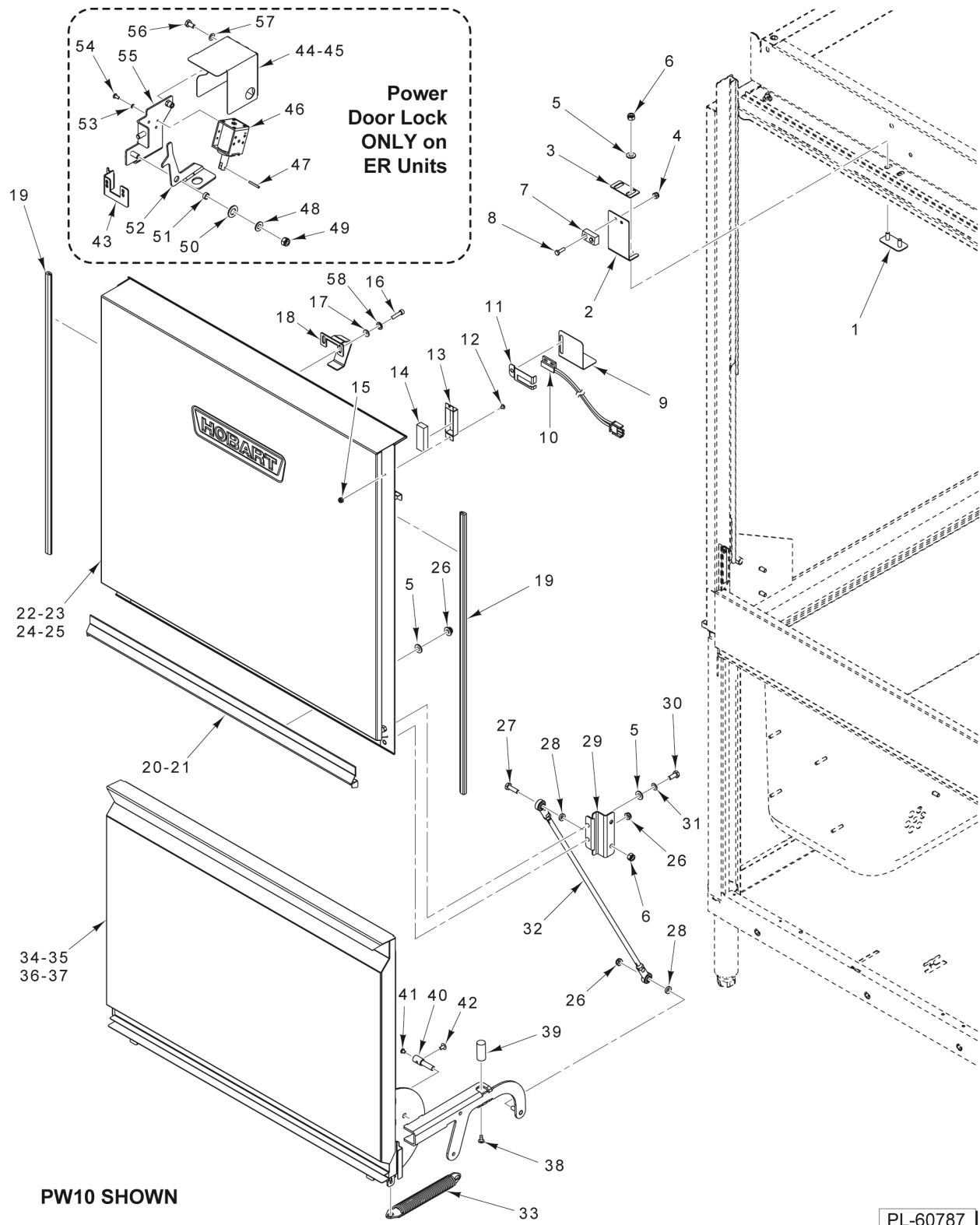
PW10 SHOWN

PL-60777

PANELS AND SCREENS

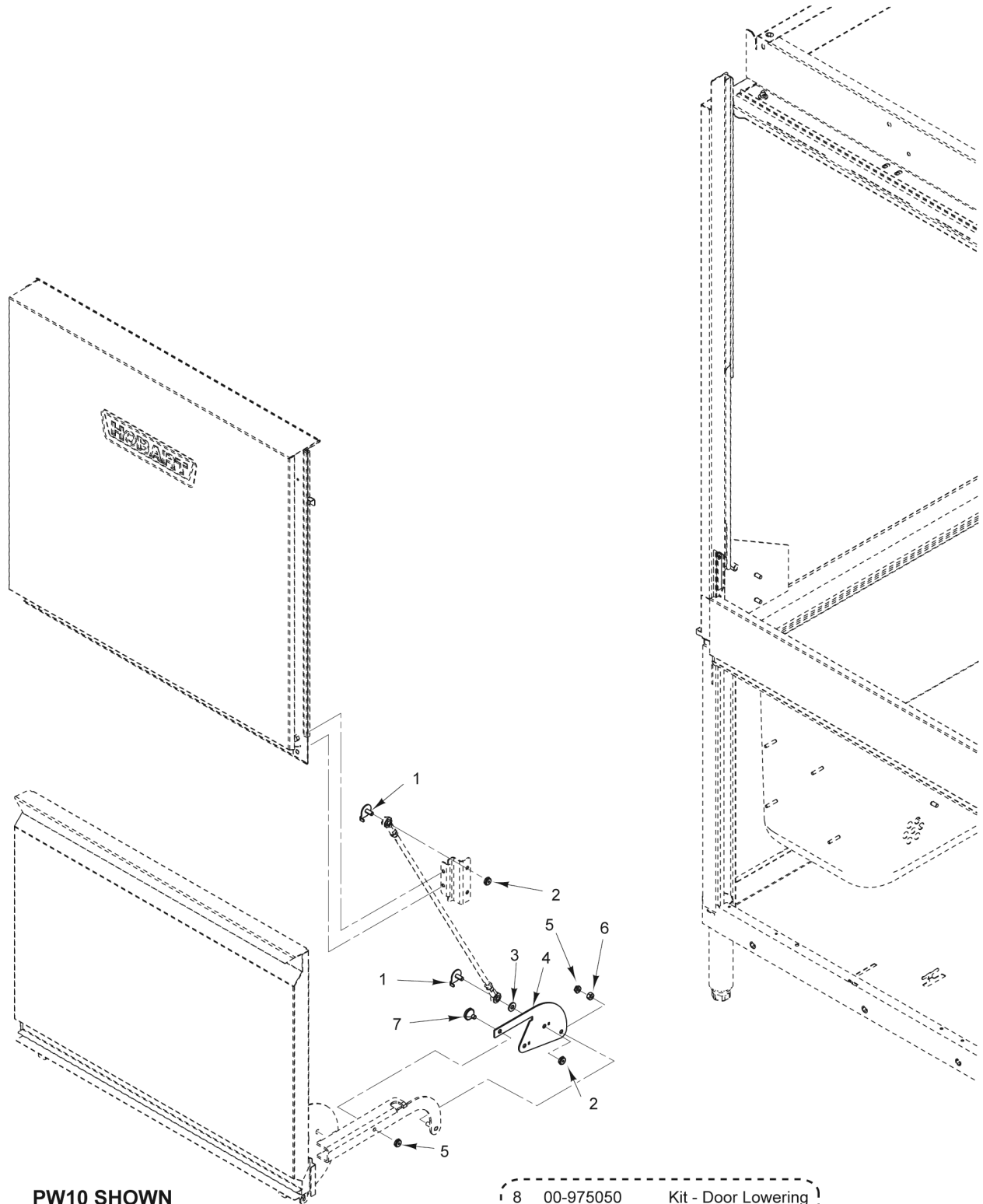
PANELS AND SCREENS

ILLUS. PL-60777	PART NO.	NAME OF PART	AMT.
1	SC-067-06	Mach. Screw 10-24 x 1/2 Hex Hd.....	4
2	WL-006-06	Lockwasher #10 Helical (SST).....	5
3	WS-019-20	Washer 0.219 x 0.375 x 0.031 (SST).....	4
4	00-948946-00001	Panel - Top (PW10).....	1
5	00-948946-00002	Panel - Top (PW20).....	1
6	00-948954	Channel - Vent.....	1
7	00-473466	Button - Door Handle.....	2
8	00-948957	Flap.....	1
9	00-948930	Panel - Rear (PW10).....	1
10	00-948931	Panel - Rear (PW20).....	1
11	00-948836-00001	Panel Assy. (RH) (Standard).....	1
12	00-948836-00005	Panel Assy. (RH) (Advansys).....	1
13	SC-125-15	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	2
14	00-948999	Bracket - Sprayer Handle.....	1
15	00-950404	Label - Condensing Cycle (Advansys).....	1
16	00-948932-00001	Panel - Front (PW10).....	1
17	00-948932-00002	Panel - Front (PW20).....	1
18	00-974259	Strainer - Drain.....	AR
19	00-118999	Strainer Basket Assy.....	1
20	00-948886-00001	Strainer - Front (PW10).....	1
21	00-948884-00001	Strainer - Front (PW20).....	1
22	01-294731-00001	Strainer - Back (PW10).....	1
23	01-294740-00001	Strainer - Back (PW20).....	1
24	00-948836-00004	Panel Assy. (LH).....	1
25	00-893122-00003	Foot - Standard.....	4
26	00-974223	Seal.....	1
27	00-974222	Seal.....	1
28	00-974220	Seal.....	1
29	00-948928	Barrier - Vapor.....	2
30	00-974021-00001	Seal - Left Side Plate (Requires items 32, 33 [1 each] and 34 [2 each]).....	1
31	00-974021-00002	Seal - Right Side Plate (Requires items 32, 33 [1 each] and 34 [2 each]).....	1
32	SC-125-45	Screw - Mach. 8-32 x 3/4 (Flat Cross).....	2
33	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	2
34	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
35	WS-017-06	Washer (SST).....	4



DOOR ASSEMBLY

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60787			
1	00-974102-00001	Mount - Door Stop.....	1
2	00-948941	Bracket - Spring & Lock.....	1
3	00-948897-00001	Bracket - Door Brake.....	1
4	NS-031-15	Stop Nut 10-24 Hex (SST).....	2
5	WS-017-06	Washer (SST).....	AR
6	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	4
7	00-950106	Shoe - Brake.....	1
8	SC-126-29	Cap Screw 10-24 x 5/8 Hex Hd.....	2
9	00-949004	Bracket - Switch.....	1
10	00-941429-00002	Switch Assy. - Interlock.....	1
11	00-949012	Clamp - Switch.....	1
12	SC-066-01	Mach. Screw 6-32 x 1/4 Phil. Truss Hd.....	2
13	00-290159	Retainer - Magnet.....	1
14	00-290160	Magnet.....	1
15	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
16	SC-123-01	Cap Screw 10-24 x 3/4 Hex Socket Hd. (SST).....	2
17	WS-019-20	Washer 0.219 x 0.375 x 0.031 (SST).....	2
18	00-948898-00001	Bracket - Brake.....	1
19	00-112378-00023	Guide - Door.....	2
20	00-948819-00001	Gutter (Upper Door) (PW10).....	1
21	00-948819-00002	Gutter (Upper Door) (PW20).....	1
22	00-948855-00001	Door Weldment (PW10).....	1
23	00-948853-00001	Door Assy. (PW10) (Incls. Items 12 thru 20, 22, & 58).....	1
24	00-948855-00002	Door Weldment (PW20).....	1
25	00-948853-00002	Door Assy. (PW20) (Incls. Items 12 thru 19, 21, 24, & 58).....	1
26	NS-047-86	Stop Nut 1/4-20 Hex (SST).....	AR
27	SC-109-47	Cap Screw 1/4-20 x 7/8 Hex Hd. (SST).....	2
28	WS-022-25	Washer.....	4
29	00-948858	Bracket - Upper Door.....	2
30	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	2
31	WL-007-15	Lockwasher 1/4 External Shakeproof.....	2
32	00-948874	Rod Assy.....	2
33	00-948925	Spring Assy.....	2
34	00-948840-00001	Door Assy. (Lower Hinged) (PW10) (Incls. Items 36, 38, 39, & 40).....	1
35	00-948840-00002	Door Assy. (Lower Hinged) (PW20) (Incls. Items 37 thru 40).....	1
36	00-948842-00001	Door Weldment (Lower Hinged) (PW10).....	1
37	00-948842-00002	Door Weldment (Lower Hinged) (PW20).....	1
38	SD-038-84	Self-Tapping Screw 10-24 x 1/2 Phil. Truss Hd., Type F (SST).....	2
39	00-948841	Bumper - Rubber.....	2
40	00-948818	Pin - Pivot.....	2
41	SC-119-14	Mach. Screw 8-32 x 1/4 Phil. Flat Hd. (SST).....	2
42	SC-010-24	Mach. Screw 10-24 x 3/8 Slotted Truss Hd.....	2
43	00-948940	Bracket - Switch.....	1
44	00-948992	Lock Assy. (Incls. Items 45 thru 57).....	1
45	00-949015	Cover - Solenoid.....	1
46	00-949046-00001	Solenoid (110 VDC, 3/4 In. Travel).....	1
47	RP-003-47	Pin - Roll 1/8 In x 1-1/4 In. Lg.....	1
48	WS-005-32	Washer (SST).....	1
49	NS-036-19	Stop Nut 5/16-18 Hex (SST).....	1
50	WS-021-01	Washer.....	1
51	00-893014-00002	Spacer - Link.....	1
52	00-948994	Lock.....	1
53	WL-006-01	Lockwasher #8 Helical (SST).....	4
54	SC-120-35	Mach. Screw 8-32 x 3/8 Phil. Pan Hd. (SST).....	4
55	00-948993	Plate - Solenoid.....	1
56	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	1
57	WL-007-15	Lockwasher 1/4 External Shakeproof.....	1
58	WL-006-06	Lockwasher #10 Helical (SST).....	1



PW10 SHOWN

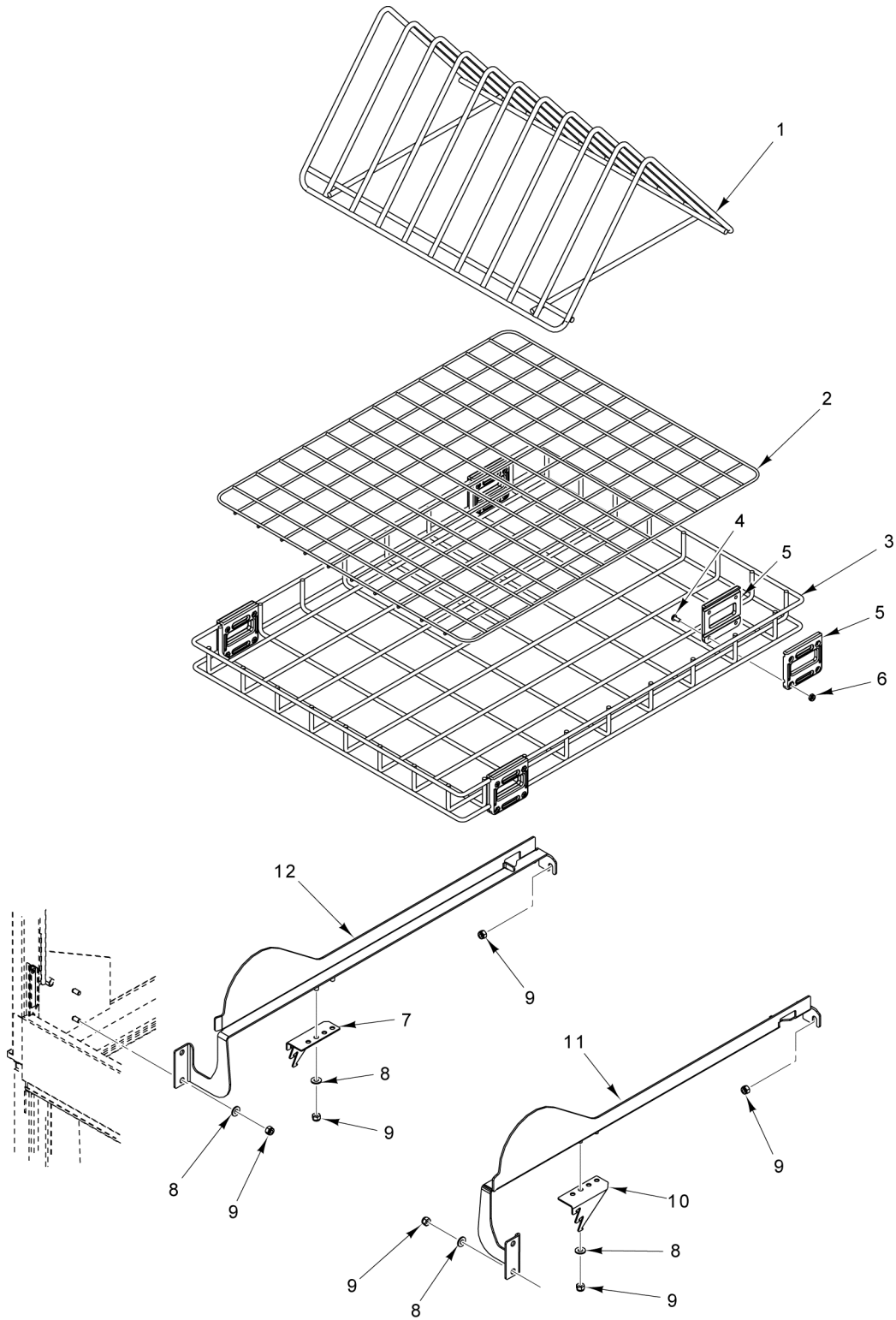
8 00-975050 Kit - Door Lowering
PART NOT ILLUSTRATED

AI4712

**DOOR LOWERING KIT
(OPTIONAL ACCESSORY)**

**DOOR LOWERING KIT
(OPTIONAL ACCESSORY)**

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-AI4712			
1	00-975074-00001	Captive Stud - Anti-Rotation 1/4-20.....	4
2	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	4
3	WS-022-25	Washer.....	2
4	00-975072	Bracket - Door Pivot.....	2
5	NS-047-86	Stop Nut 1/4-20 Hex (SST).....	4
6	NS-015-01	Nut 1/4-20 Hex (SST).....	2
7	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	2
8	00-975070	Kit - Door Lowering (Incls. Items 1-7).....	1

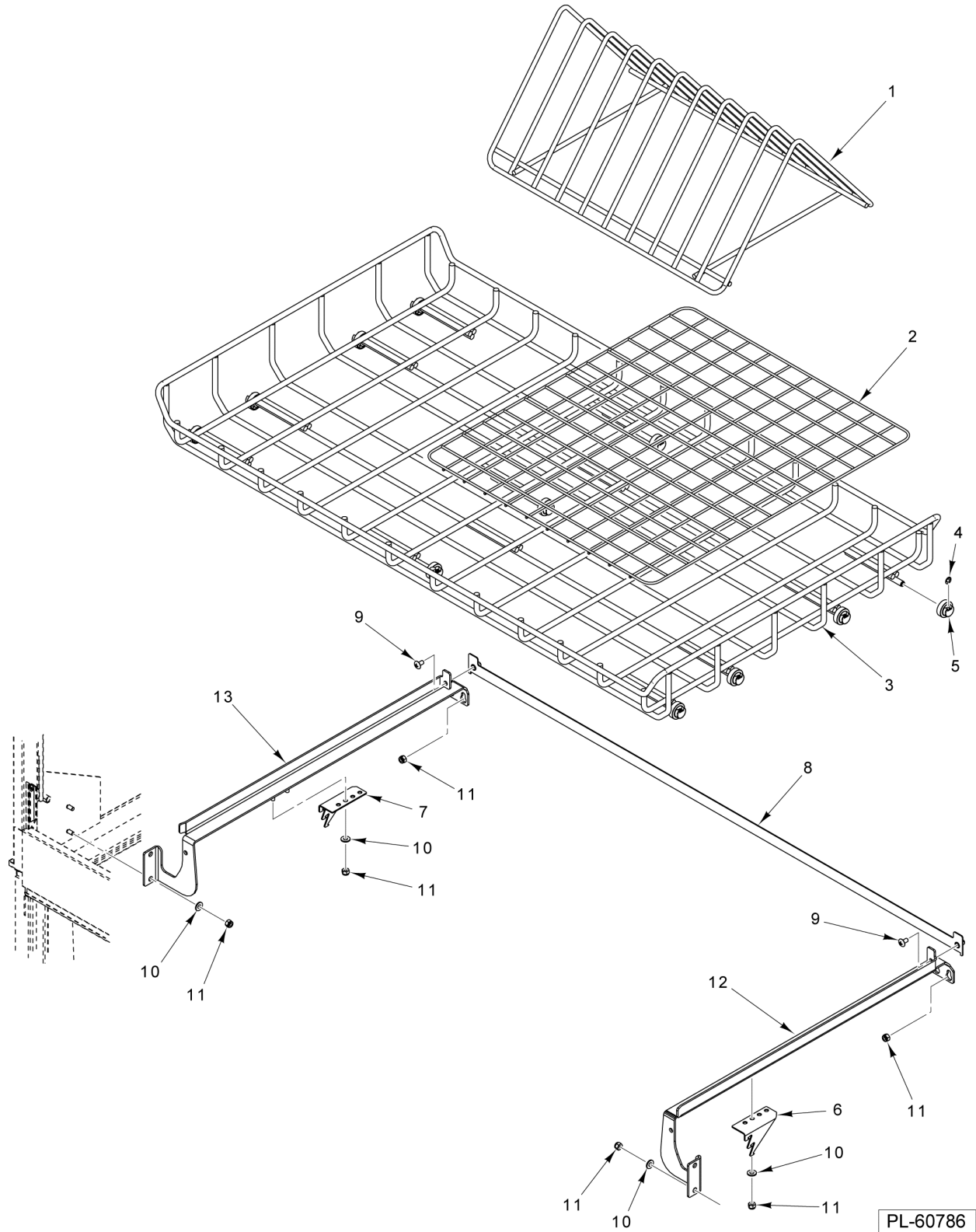


PL-60785

RACK ASSEMBLY (PW10)

RACK ASSEMBLY (PW10)

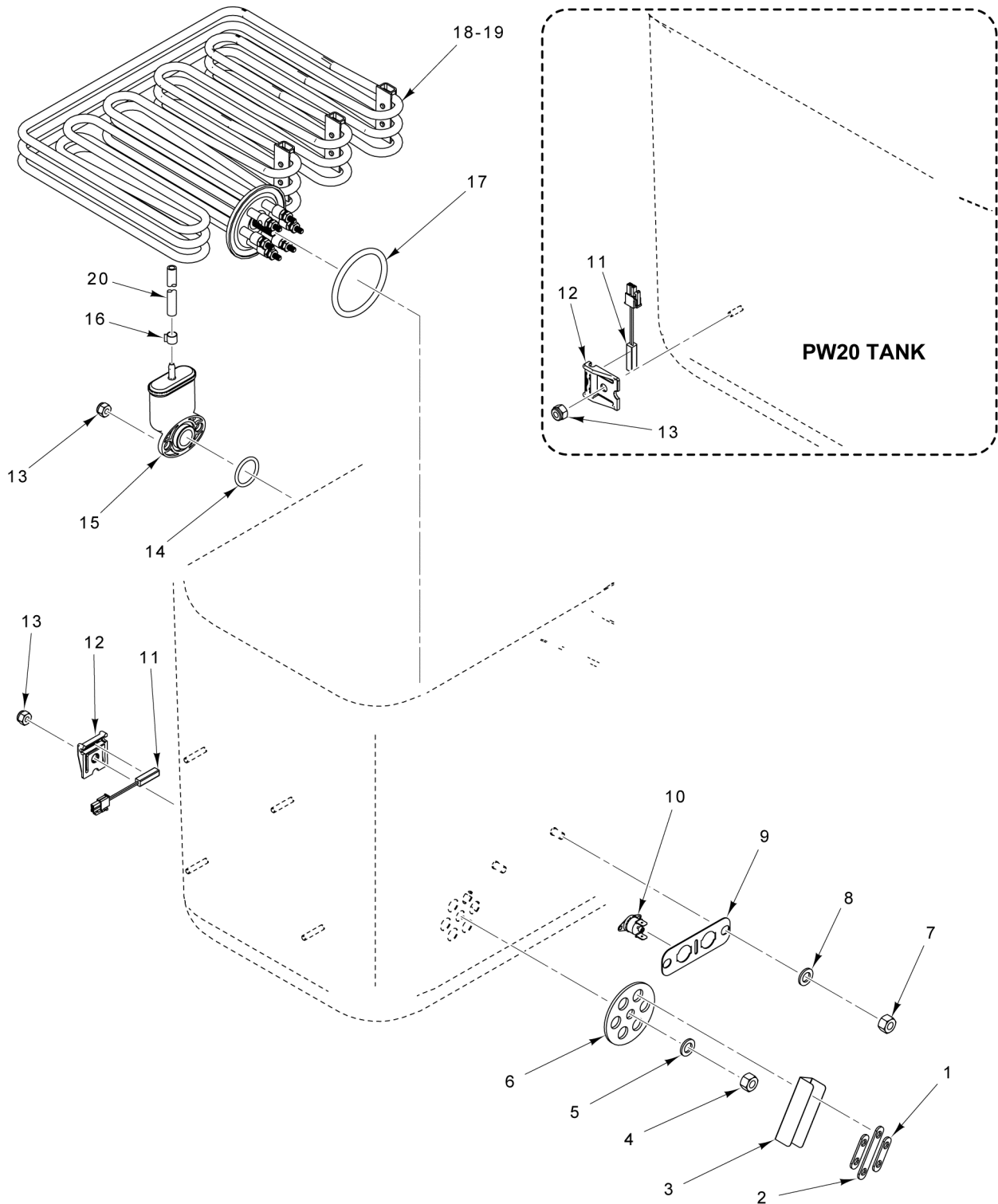
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60785			
1	00-948776	Rack (10-Pan).....	1
2	00-950677	Insert - Basket.....	1
3	00-948959	Rack Assy. (With Blocks) (Incls. Items 4, 5, & 6).....	1
4	SC-123-76	Mach. Screw 10-24 x 1/2 Phil. Pan Hd.....	16
5	00-948929	Block - Rack Mounting.....	8
6	NS-031-16	Stop Nut 10-24 Hex Elastic (SST).....	16
7	00-948921-00002	Bracket - Spring (LH).....	1
8	WS-017-06	Washer (SST).....	AR
9	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	12
10	00-948921-00001	Bracket - Spring (RH).....	1
11	00-948908-00001	Guide - Rack (RH).....	1
12	00-948908-00002	Guide - Rack (LH).....	1



RACK ASSEMBLY (PW20)

RACK ASSEMBLY (PW20)

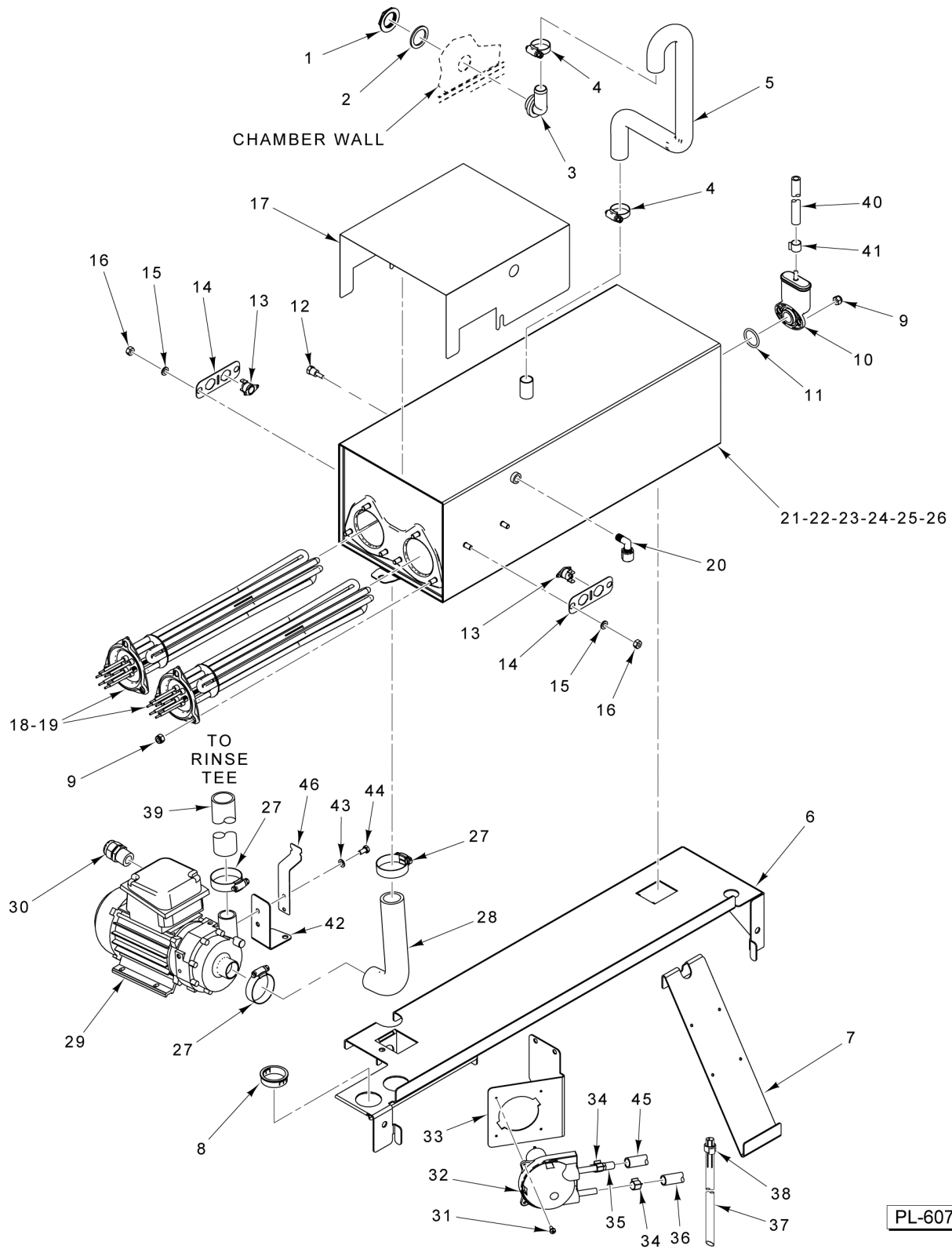
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60786			
1	00-948776	Rack (10-Pan).....	2
2	00-950677	Insert - Basket.....	2
3	00-950678	Rack Basket Assy. (Incls. Items 4 & 5).....	1
4	RR-006-23	Retaining Ring.....	11
5	00-949014	Roller - Conveyor Rack.....	11
6	00-948921-00001	Bracket - Spring (RH).....	1
7	00-948921-00002	Bracket - Spring (LH).....	1
8	00-974142-00001	Support - Rack.....	1
9	SC-125-15	Mach. Screw 1/4-20 x 1/2 Phil. Truss Hd.....	2
10	WS-017-06	Washer (SST).....	AR
11	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	12
12	00-948905-00001	Guide - Rack (RH).....	1
13	00-948905-00002	Guide - Rack (LH).....	1



PL-60780

TANK HEAT

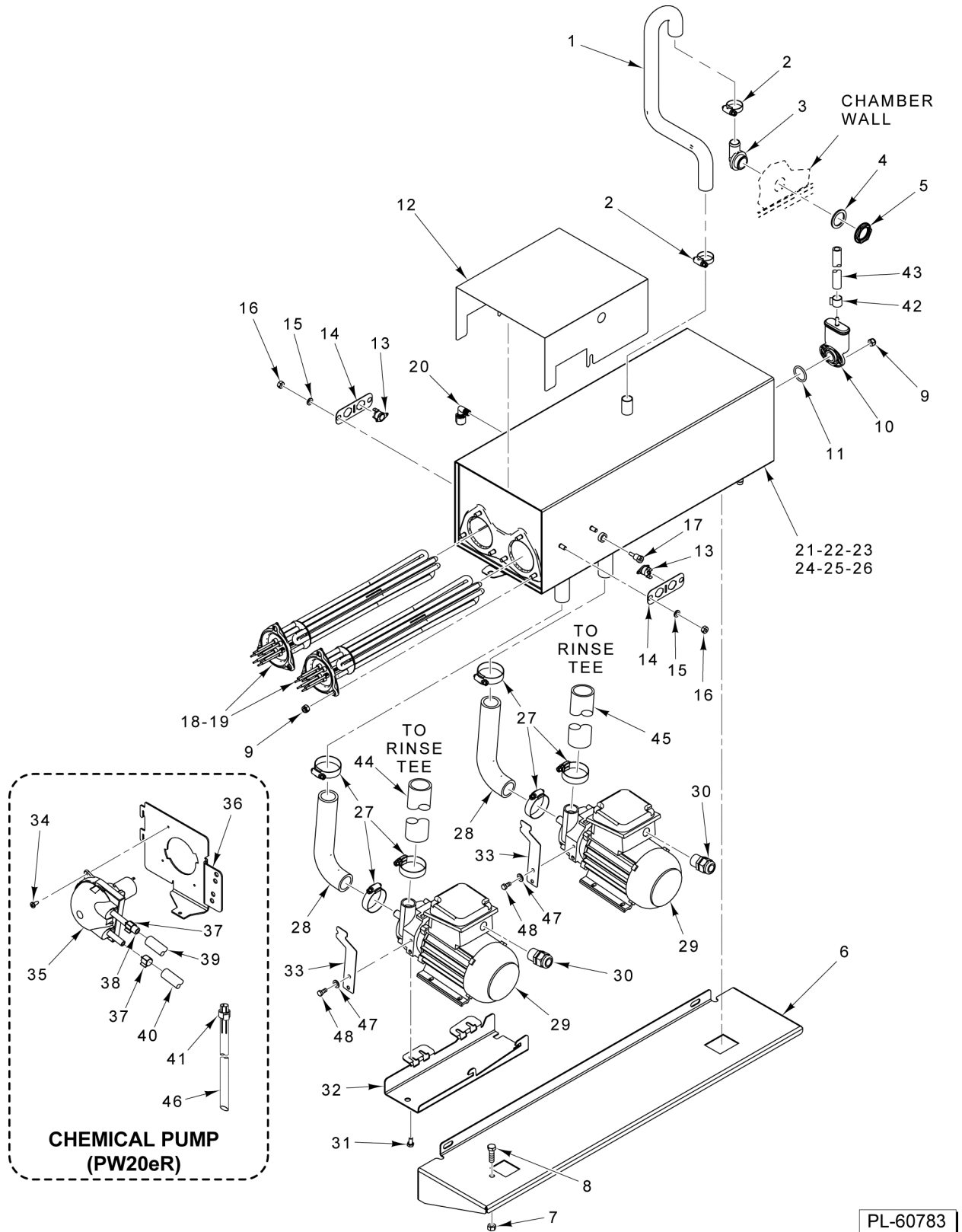
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60780			
1	00-974037-00001	Jumper.....	2
2	00-974037-00002	Jumper.....	1
3	00-974036	Insulator.....	1
4	NS-014-15	Nut 3/8-16 (Brass) (Supplied With Heater).....	1
5	WL-006-27	Lockwasher 3/8 Helical (SST).....	1
6	00-950267	Reinforcement - Heater.....	1
7	NS-015-01	Nut 1/4-20 Hex (SST).....	2
8	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
9	00-941630	Bracket - High Limit.....	1
10	00-942185	Protector - High Limit.....	2
11	00-941747	Thermistor.....	1
12	00-949010	Mount - Thermistor.....	1
13	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	3
14	OR-001-21	O-Ring.....	1
15	00-942151-00001	Trap - Air.....	1
16	00-113156-00001	Clamp - Spring Action Hose.....	1
17	OR-001-32	O-Ring.....	1
18	00-948740-00001	Heater - 16.4 kW Electric (240 V.).....	1
19	00-948740-00002	Heater - 16.4 kW Electric (480 V.).....	1
20	00-974388-00007	Tubing.....	1



RINSE PUMP & BOOSTER ASSEMBLY (PW10)

RINSE PUMP & BOOSTER ASSEMBLY (PW10)

ILLUS. PL-60784	PART NO.	NAME OF PART	AMT.
1	00-116198-00003	Nut - Adapter.....	1
2	00-941940	Washer - Air Gap.....	1
3	00-324097	Elbow - Fill.....	1
4	00-528499	Clamp - Hose.....	2
5	00-948988	Hose - Booster.....	1
6	00-948948	Bracket - Shelf (Booster) (PW10).....	1
7	00-949000	Support - Booster.....	1
8	FE-023-53	Bushing - Snap.....	2
9	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	8
10	00-942151-00001	Trap - Air.....	1
11	OR-001-21	O-Ring.....	1
12	00-949039	Probe Assy.....	1
13	00-942185	Protector - High Limit.....	4
14	00-941630	Bracket - High Limit.....	2
15	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
16	NS-015-01	Nut 1/4-20 Hex (SST).....	4
17	00-949016	Cover - Mylar (Booster).....	1
18	00-948741-00001	Heater - Electric (240 V., 8200 W.).....	2
19	00-948741-00002	Heater - Electric (480 V., 8200 W.).....	2
20	FP-087-46	Fitting - Tube 1/4 (Advansys).....	1
21	00-948918-00001	Booster Weldment (Standard).....	1
22	00-948918-00003	Booster Weldment (Advansys).....	1
23	00-948919-00001	Booster Assy. (Standard) (240 V.) (Incls. Items 9 thru 18 & 21).....	1
24	00-948919-00005	Booster Assy. (Standard) (480 V.) (Incls. Items 9 thru 17, 19, & 21).....	1
25	00-948919-00002	Booster Assy. (Advansys) (240 V.) (Incls. Items 9 thru 18, 20, & 22).....	1
26	00-948919-00006	Booster Assy. (Advansys) (480 V.) (Incls. Items 9 thru 17, 19, 20, & 22).....	1
27	00-558171	Clamp - Hose.....	3
28	00-950423-00001	Hose - Elbow.....	1
29	00-947899-00004	Pump Motor Assy. (208-240/380-480/60).....	1
30	FE-027-12	Cord Grip - Strain Relief.....	1
31	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	AR
32	00-948850	Pump - Chemical.....	AR
33	00-949002	Bracket - Chemical Pump (PW10eR).....	1
34	00-113156-00001	Clamp - Spring Action Hose.....	AR
35	00-949651-00002	Hose - P-Pump.....	1
36	00-185105-00029	Tubing (Black) (144 In.).....	1
37	00-185112	Stand Pipe 20-1/2 Lg.....	1
38	00-185111-00002	Clamp - Hose 7/16.....	1
39	00-949008-00001	Hose.....	1
40	00-974388-00006	Tubing.....	1
41	00-113156-00001	Clamp - Spring Action Hose.....	1
42	00-948975	Bracket - Drain Pump.....	1
43	WL-006-16	Lockwasher 1/4 Helical (SST).....	2
44	SC-120-48	Cap Screw M6 x 1.0 x 18mm Hex Hd. (SST).....	2
45	00-185105-00031	Tubing (Clear) (9.5 In.).....	1
46	00-948779	Anchor - Hose.....	1

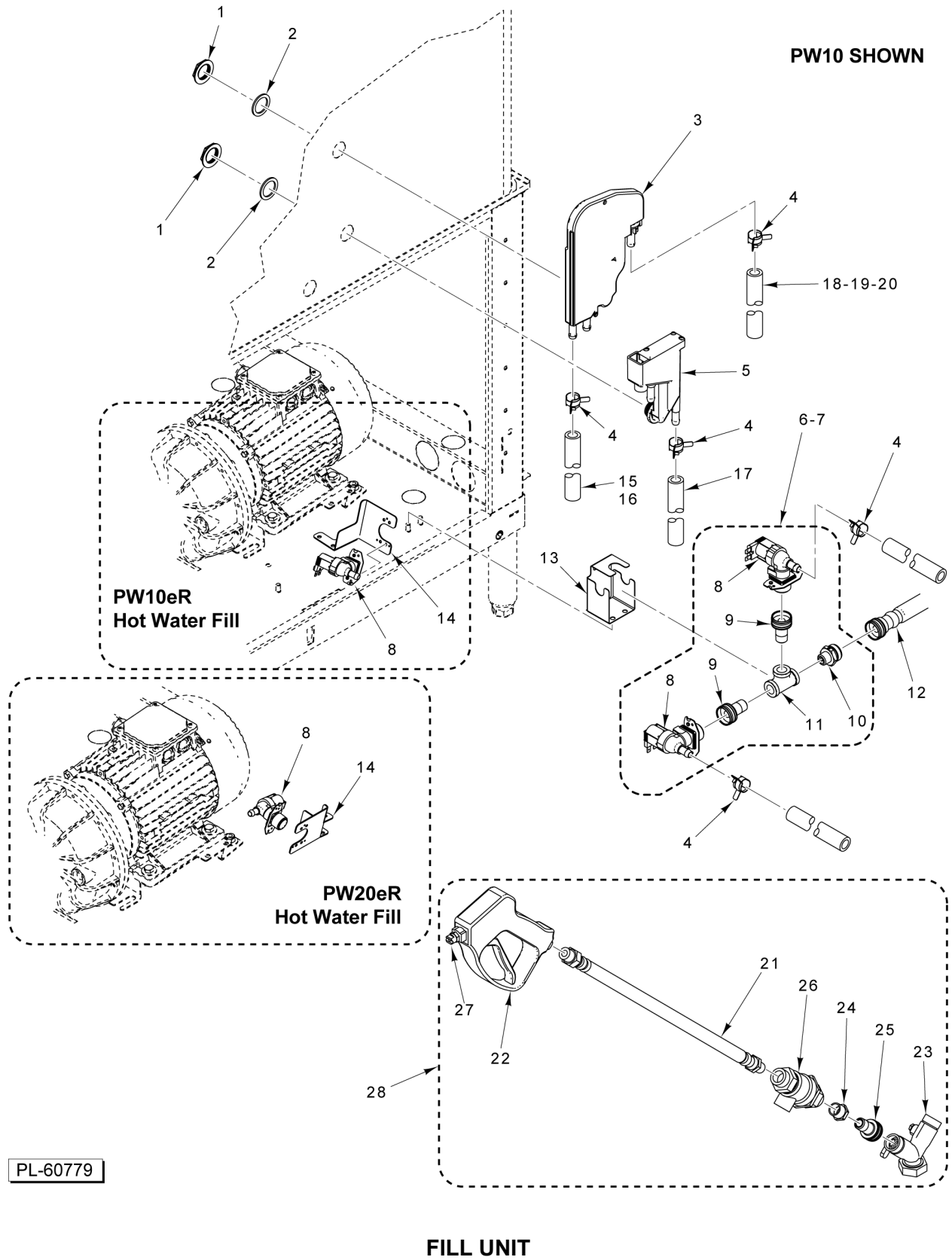


PL-60783

RINSE PUMP & BOOSTER ASSEMBLY (PW20)

RINSE PUMP & BOOSTER ASSEMBLY (PW20)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60783			
1	00-948988	Hose - Booster.....	1
2	00-528499	Clamp - Hose.....	2
3	00-324097	Elbow - Fill.....	1
4	00-941940	Washer - Air Gap.....	1
5	00-116198-00003	Nut - Adapter.....	1
6	00-948969	Bracket - Shelf (Booster).....	1
7	NS-015-11	Nut 5/16-18 Hex (SST).....	2
8	SC-041-12	Cap Screw 5/16-18 x 7/8 Hex Hd. (SST).....	2
9	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	8
10	00-942151-00001	Trap - Air.....	1
11	OR-001-21	O-Ring.....	1
12	00-949016	Cover - Mylar (Booster).....	1
13	00-942185	Protector - High Limit.....	4
14	00-941630	Bracket - High Limit.....	2
15	WL-006-17	Lockwasher 1/4 Helical (SST).....	4
16	NS-015-01	Nut 1/4-20 Hex (SST).....	4
17	00-949039	Probe Assy.....	1
18	00-948741-00001	Heater - Electric (240 V., 8200 W.).....	2
19	00-948741-00002	Heater - Electric (480 V., 8200 W.).....	2
20	FP-087-46	Fitting - Tube 1/4 (Advansys).....	1
21	00-948918-00002	Booster Weldment (Standard).....	1
22	00-948918-00004	Booster Weldment (Advansys).....	1
23	00-948919-00003	Booster Assy. (Standard) (240 V.) (Incls. Items 9 thru 18 & 21).....	1
24	00-948919-00007	Booster Assy. (Standard) (480 V.) (Incls. Items 9 thru 17, 19, & 21).....	1
25	00-948919-00004	Booster Assy. (Advansys) (240 V.) (Incls. Items 9 thru 18, 20, & 22).....	1
26	00-948919-00008	Booster Assy. (Advansys) (480 V.) (Incls. Items 9 thru 17, 19, 20, & 22).....	1
27	00-558171	Clamp - Hose.....	6
28	00-950423-00001	Hose - Elbow.....	2
29	00-947899-00004	Pump Motor Assy. (208-240/380-480/60).....	2
30	FE-027-12	Cord Grip - Strain Relief.....	2
31	SC-118-58	Cap Screw M6 x 1.0 x 12mm Hex Hd. (SST).....	4
32	00-948973	Bracket - Pump Support.....	1
33	00-948779	Anchor - Hose.....	2
34	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	AR
35	00-948850	Pump - Chemical.....	AR
36	00-948851	Bracket - Chemical Pump (PW20eR).....	AR
37	00-113156-00001	Clamp - Spring Action Hose.....	AR
38	00-949651-00002	Hose - P-Pump.....	1
39	00-185105-00016	Tubing.....	1
40	00-185105-00029	Tubing (Black) (144 In.).....	1
41	00-185111-00002	Clamp - Hose 7/16.....	1
42	00-113156-00001	Clamp - Spring Action Hose.....	1
43	00-974388-00008	Tubing.....	1
44	00-949008-00001	Hose.....	1
45	00-948008-00002	Hose.....	1
46	00-185112	Stand Pipe 20-1/2 Lg.....	1
47	WL-006-16	Lockwasher 1/4 Helical (SST).....	4
48	SC-120-48	Cap Screw M6 x 1.0 x 18mm Hex Hd. (SST).....	4



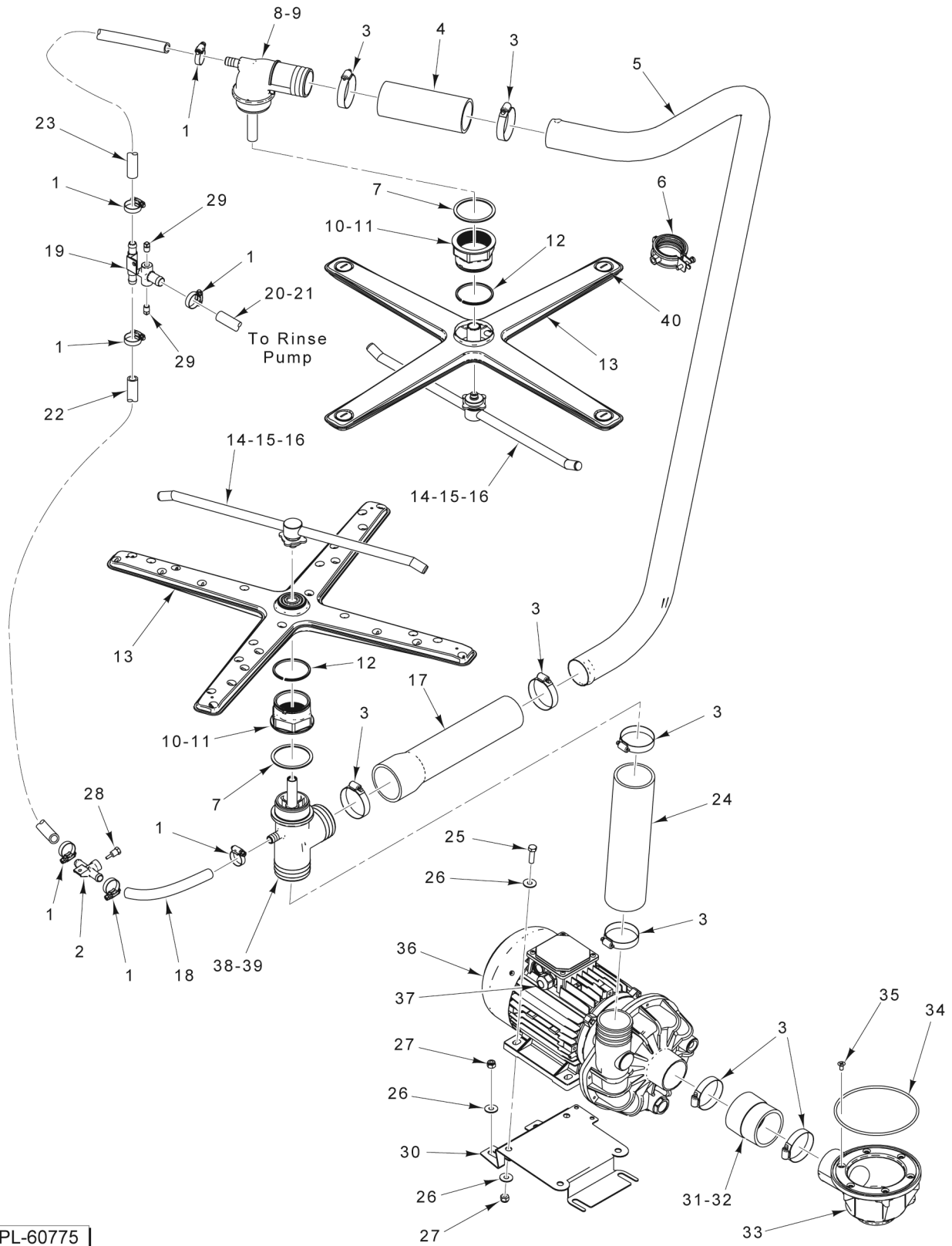
PL-60779

FILL UNIT

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60779			
1	00-974952	Nut - Adapter.....	2
2	00-941940	Washer - Air Gap.....	2
3	01-297510-00001	Air Gap.....	1
4	00-558090	Clamp.....	6
5	00-948624-00001	Manifold - Fill.....	1
6	00-948888-00001	Fill Assy. (PW10).....	1
7	00-948888-00002	Fill Assy. (PW20).....	1
8	00-941798	Valve (Deltrol).....	2
9	FP-088-17	Fitting - Hose.....	2
10	FP-087-68	Fitting - Hose 3/4 Male to 3/8 MPT.....	1
11	FP-019-12	Tee - Pipe 3/8 x 3/8 x 3/8 (Brass).....	1
12	00-243625-00002	Hose.....	AR
13	00-948889	Bracket - Fill Assy.....	1
14	00-974098	Mount - Valve.....	1
15	00-941726-00019	Hose 3/8 (46 In. Lg.) (PW10).....	AR
16	00-941726-00013	Hose 3/8 (39.5 In. Lg.) (PW20).....	AR
17	00-941726-00012	Hose 3/8 (30 In. Lg.).....	AR
18	00-941726-00011	Hose 3/8 (62 In. Lg.) (PW10eR).....	AR
19	00-941726-00018	Hose 3/8 (96 In. Lg.) (PW20eR).....	AR
20	00-941726-00013	Hose 3/8 (39.5 In. Lg.) (PW10 & PW20).....	AR
21	00-936801-00002	Hose 3/8 x 144 In. Lg.....	1
22	00-812608-00001	Nozzle Assembly (Incls. Item 27).....	1
23	00-974115	Shutoff - Tee.....	1
24	FP-027-13	Bushing - Pipe 1/2 to 3/8 (Brass).....	1
25	FP-088-17	Fitting - Hose.....	1
26	00-223472	Backflow Preventer.....	1
27	00-812608-00002	Nozzle.....	1
28	00-948888-00003	Sprayer Assy. (Incls. Items 21 thru 27).....	1

WASH & PUMP ASSEMBLY (PW10)

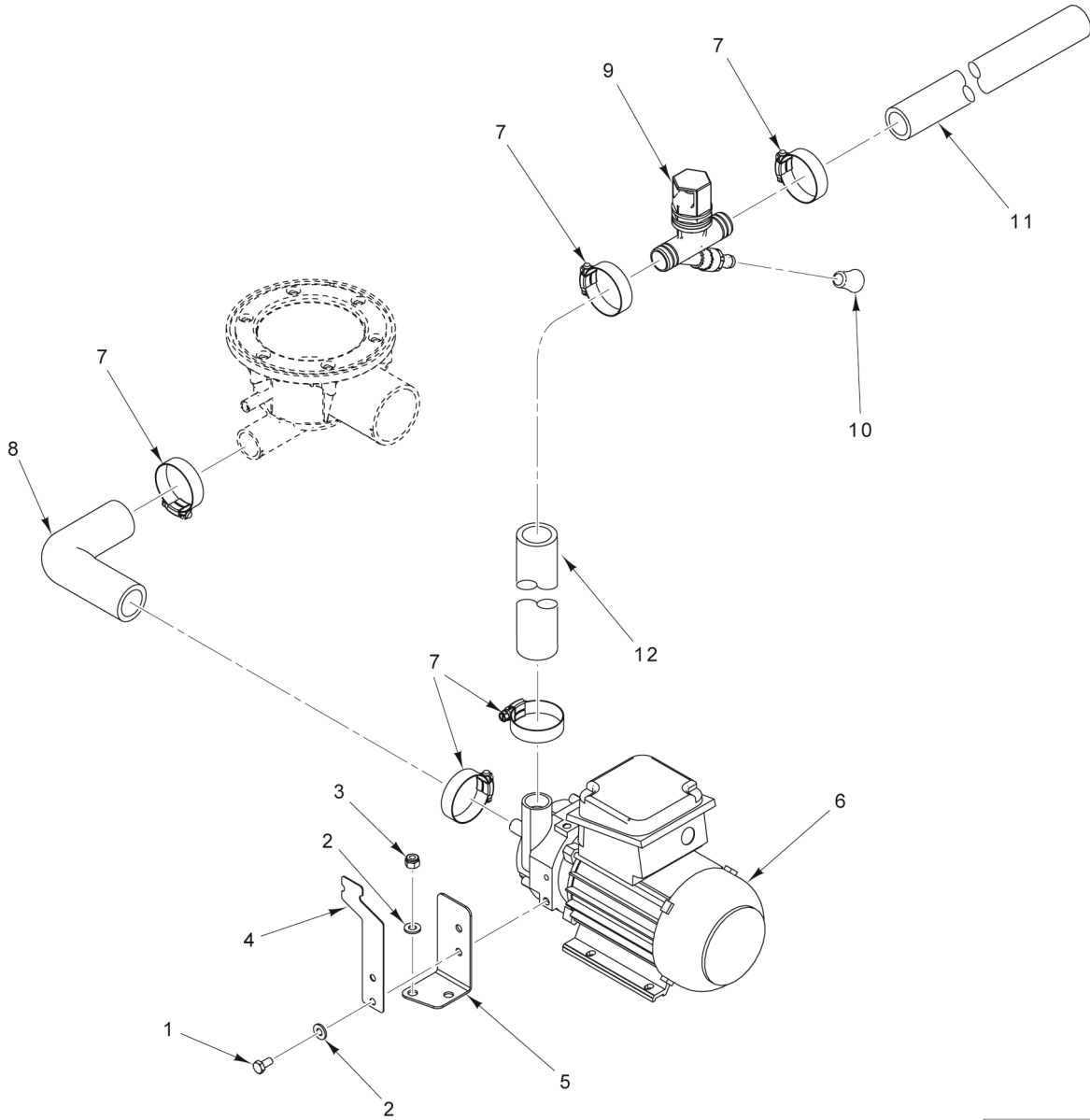
ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60776			
1	00-948822-00001	Wash/Rinse Arm Assy. (Incls. Items 2 thru 5).....	2
2	00-948739-00001	Rinse Arm Assy.....	2
3	00-974367	Arm - Wash.....	2
4	00-324751	Ring - Wash.....	2
5	00-948821-00001	Nut - Rinse Arm.....	2
6	00-329017-00009	Hose.....	1
7	00-898202-00001	Manifold - Wash/Drain.....	1
8	OR-001-25	O-Ring.....	1
9	SC-128-10	Mach. Screw M6 x 1 x 12 mm Phil. Flat Hd.....	6
10	00-522162	Clamp - Hose.....	AR
11	00-949592	Hose - Intake.....	1
12	NS-036-19	Stop Nut 5/16-18 Hex (SST).....	6
13	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	10
14	00-948963	Bracket - Pump.....	1
15	SC-041-14	Cap Screw 5/16-18 x 1-1/8 Hex Hd. (SST).....	4
16	00-948783-00001	Wash Pump Assy.....	1
17	00-949877	Hose.....	1
18	00-522162	Clamp - Hose.....	AR
19	00-948785-00001	Hose.....	1
20	00-974365-00001	Manifold - Wash (Lower).....	1
21	00-542337	Clamp - Hose.....	3
22	00-528499	Clamp - Hose.....	AR
23	00-948782	Tube - Wash Manifold.....	1
24	00-948971-00002	Hanger - Pipe.....	2
25	00-949885	Hose.....	1
26	00-974364-00001	Manifold - Wash (Upper).....	1
27	00-948986-00001	Gasket - Wash Arm.....	2
28	00-948784	Tee - Rinse.....	1
29	00-328994	Probe Assy. - Rinse.....	1
30	FP-028-03	Pipe Plug 1/8 Sq. Hd. (Brass).....	2
31	00-329017-00016	Hose.....	2
32	00-949008-00001	Hose.....	1
33	00-949584	Hose (Drain Sump to Drain Pump).....	1
34	00-329017-00015	Hose - Rinse (Upper).....	1
35	00-974252-00001	Tee.....	1
36	00-558171	Clamp - Hose.....	1
37	00-886610	Plug.....	AR



WASH & PUMP ASSEMBLY (PW20)

WASH & PUMP ASSEMBLY (PW20)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60775			
1	00-528499	Clamp - Hose.....	AR
2	00-974252-00001	Tee.....	2
3	00-542337	Clamp - Hose.....	16
4	00-949885	Hose.....	2
5	00-948780	Tube - Wash Manifold.....	2
6	00-948971-00002	Hanger - Pipe.....	4
7	00-948986-00001	Gasket - Wash Arm.....	4
8	00-974364-00002	Manifold - Wash (LH) (Upper).....	2
9	00-974364-00003	Manifold - Wash (RH) (Upper).....	2
10	00-948821-00002	Nut - Wash (LH).....	2
11	00-948821-00003	Nut - Wash (RH).....	2
12	00-324751	Ring - Wash.....	2
13	00-974367	Arm - Wash.....	2
14	00-948739-00001	Rinse Arm Assy.....	2
15	00-948822-00002	Wash/Rinse Arm Assy. (LH) (Incls. Items 10, 12, 13, & 14).....	2
16	00-948822-00003	Wash/Rinse Arm Assy. (RH) (Incls. Items 11 thru 14).....	2
17	00-948785-00002	Hose.....	2
18	00-329017-00014	Hose.....	2
19	00-948784	Tee - Rinse.....	2
20	00-949008-00001	Hose.....	AR
21	00-949008-00002	Hose (Long).....	AR
22	00-329017-00010	Hose.....	AR
23	00-329017-00016	Hose.....	AR
24	00-949877	Hose.....	2
25	SC-041-14	Cap Screw 5/16-18 x 1-1/8 Hex Hd. (SST).....	8
26	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	20
27	NS-036-19	Stop Nut 5/16-18 Hex (SST).....	12
28	00-328994	Probe Assy. - Rinse.....	2
29	FP-028-03	Pipe Plug 1/8 Sq. Hd. (Brass).....	2
30	00-948963	Bracket - Pump.....	2
31	00-949580	Hose - Formed (LH).....	1
32	00-949581	Hose - Formed (RH).....	1
33	00-898202-00001	Manifold - Wash/Drain.....	2
34	OR-001-25	O-Ring.....	2
35	SC-128-10	Mach. Screw M6 x 1 x 12 mm Phil. Flat Hd.....	12
36	00-948783-00001	Wash Pump Assy.....	2
37	FE-022-84	Connector - Strain Relief.....	1
38	00-974365-00002	Manifold - Wash (LH) (Lower).....	1
39	00-974365-00003	Manifold - Wash (RH) (Lower).....	1
40	00-886610	Plug.....	AR

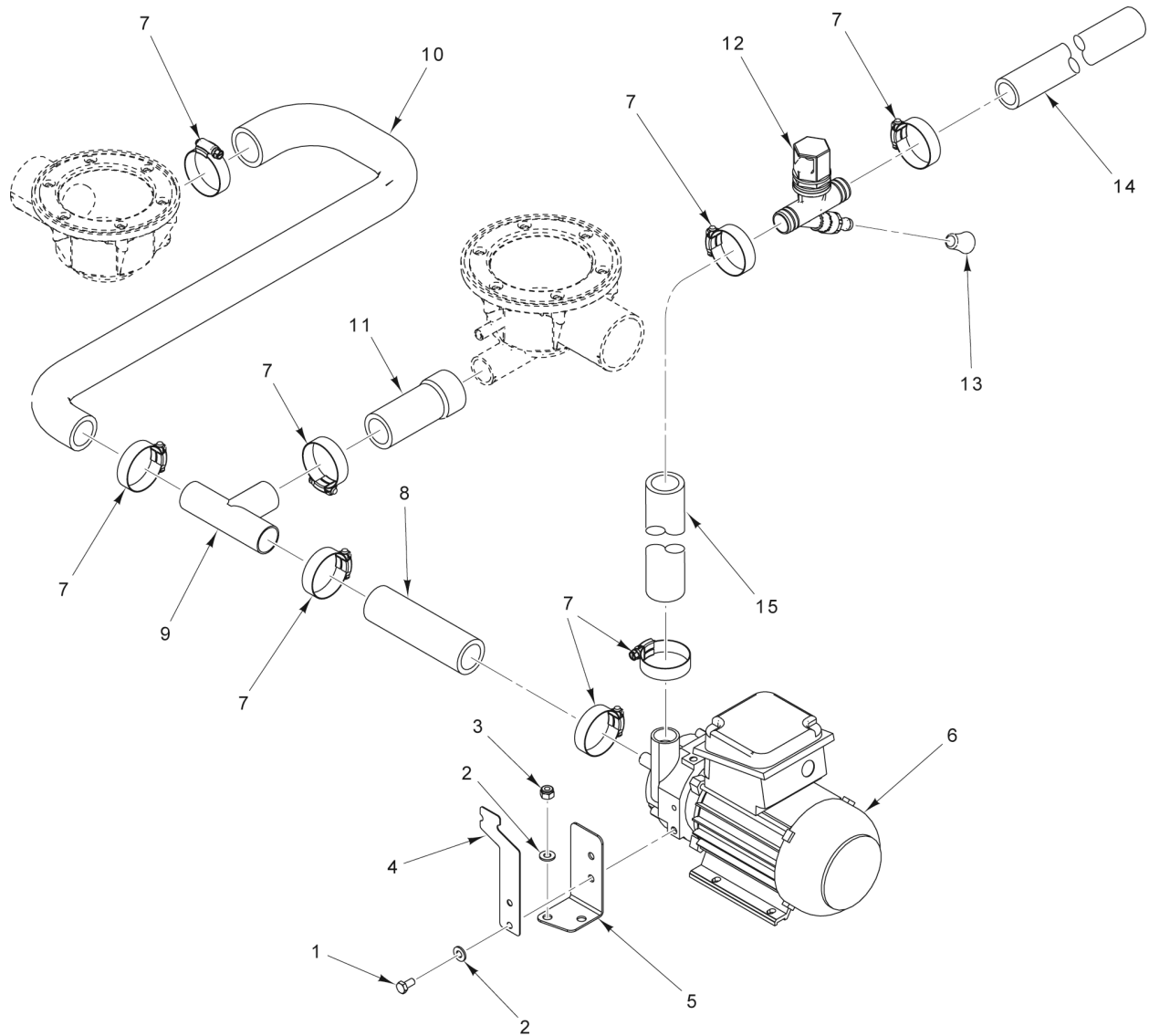


PL-60833

DRAIN ASSEMBLY (PW10)

DRAIN ASSEMBLY (PW10)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60833			
1	SC-120-48	Cap Screw M6 x 1.0 x 18mm Hex Hd. (SST).....	2
2	WL-006-16	Lockwasher 1/4 Helical (SST).....	4
3	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
4	00-948779	Anchor - Hose.....	1
5	00-948975	Bracket - Drain Pump.....	1
6	00-947899-00001	Pump Motor Assy. (208-480 V., 60 Hz., 3 Ph.).....	1
7	00-558171	Clamp - Hose.....	9
8	00-936468-00004	Hose (1 In. I.D. x 4.75 In. Lg.).....	1
9	00-974366	Valve Assy.....	1
10	00-775531-00001	Plug.....	1
11	00-949674-00001	Hose (72 In. Lg.).....	1
12	00-949878-00001	Hose.....	1

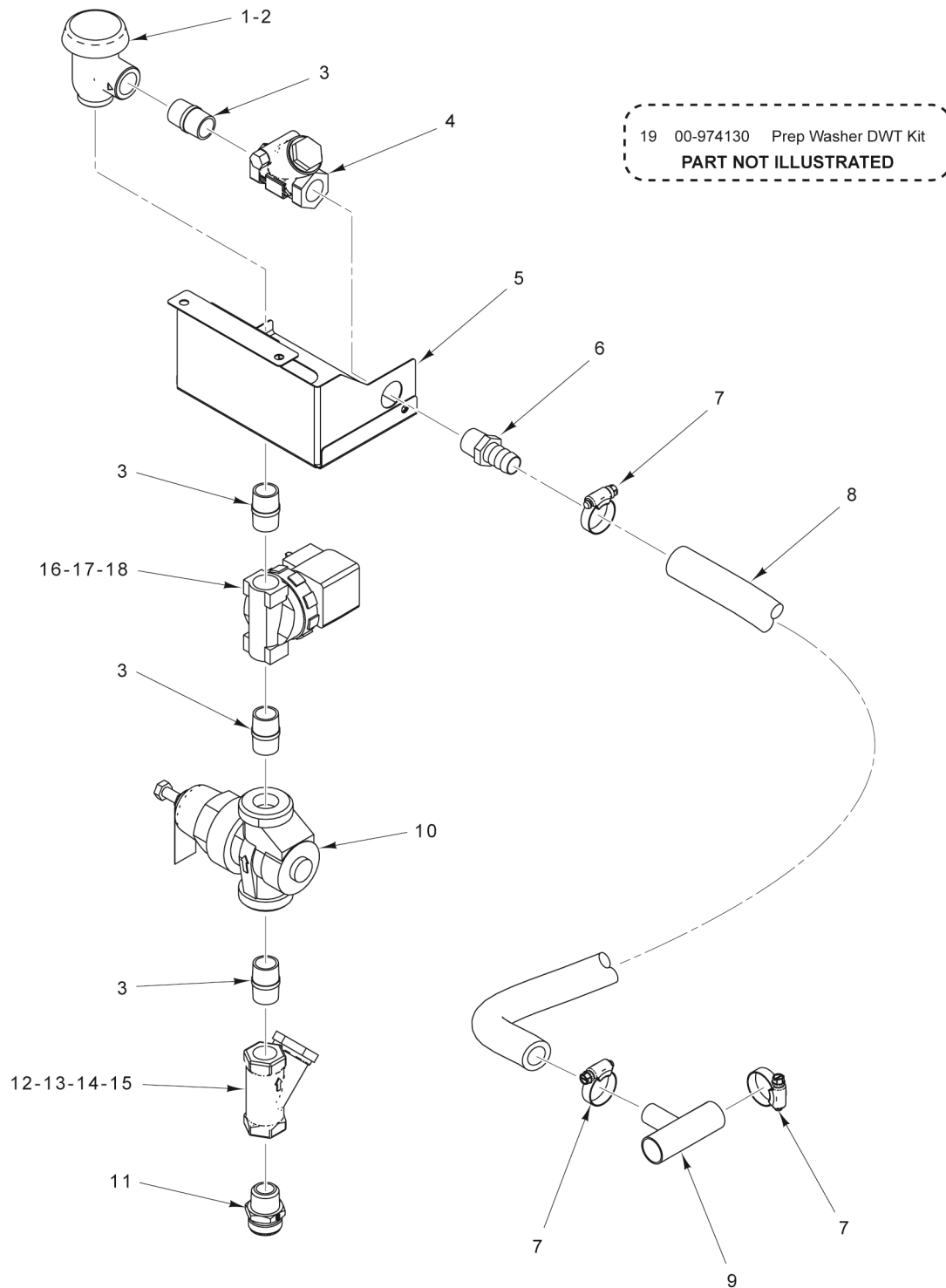


PL-60778

DRAIN ASSEMBLY (PW20)

DRAIN ASSEMBLY (PW20)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60778			
1	SC-120-48	Cap Screw M6 x 1.0 x 18mm Hex Hd. (SST).....	2
2	WL-006-16	Lockwasher 1/4 Helical (SST).....	4
3	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	2
4	00-948779	Anchor - Hose.....	1
5	00-948975	Bracket - Drain Pump.....	1
6	00-947899-00001	Pump Motor Assy. (208-480 V., 60 Hz., 3 Ph.).....	1
7	00-558171	Clamp - Hose.....	9
8	00-936468-00004	Hose (1 In. I.D. x 4.75 In. Lg.).....	1
9	00-883181-00002	Tee.....	1
10	00-949582	Hose (Drain Manifold to Tee).....	1
11	00-949579	Hose (Drain Manifold to Tee).....	1
12	01-510300-00002	Kit - Drain Valve.....	1
13	00-775531-00001	Plug.....	1
14	00-949674-00001	Hose (72 In. Lg.).....	1
15	00-949878-00002	Hose.....	1



PL-60865

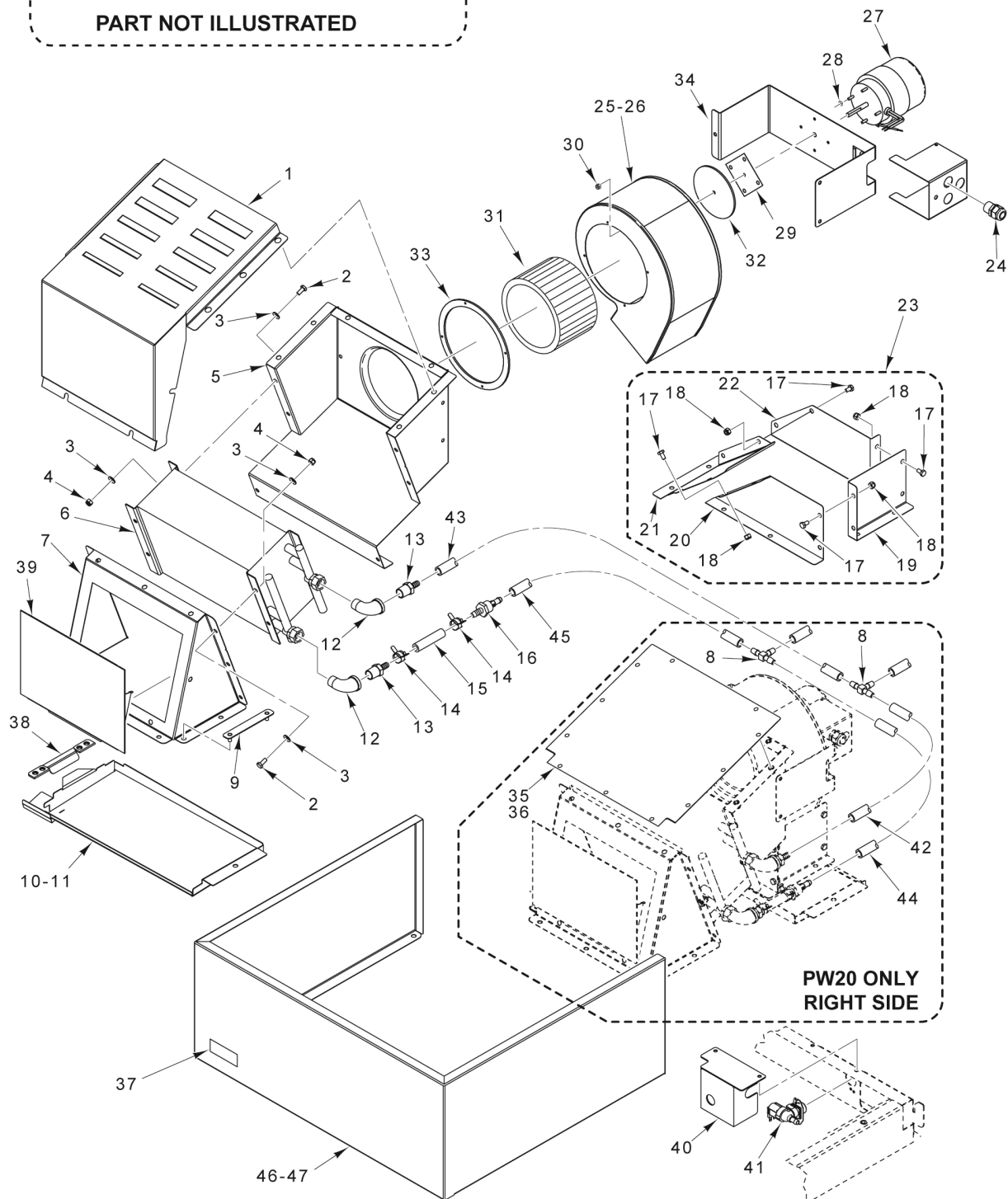
DRAIN WATER TEMPERING

DRAIN WATER TEMPERING

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60865			
1	00-292909	Vacuum Breaker 1/2 In. (Chrome) (Incls. Item 2).....	1
2	00-292910	Service Kit - Vacuum Breaker.....	1
3	FP-040-43	Pipe 1/2 x 1-1/4 TBE (Brass).....	AR
4	00-084071	Valve - Check 1/2.....	1
5	00-974120	Bracket - Support.....	1
6	FP-087-39	Fitting - Hose 5/8 Hose to 1/2 NPT (Brass).....	1
7	00-528499	Clamp - Hose.....	AR
8	00-292856-00002	Hose - Drain (Cut to Fit).....	1
9	00-974354	Tee.....	1
10	00-118038-00002	Regulator - Pressure (1/2 In.).....	1
11	FP-081-15	Fitting - Hose 5/8 x 3/4 Hose Male to 1/2 MPT.....	1
12	00-892921	Strainer - Line (Incls. Items 13, 14, & 15).....	1
13	00-892922-00001	Cap.....	1
14	00-892922-00002	Gasket.....	1
15	00-892922-00003	Screen.....	1
16	00-893100-00001	Solenoid Valve (1/2) (120 V.) (Incls. Items 17 & 18).....	1
17	00-892132	Coil - Solenoid Valve (120 V.).....	1
18	00-893101	Service Kit - 1/2 Solenoid Valve.....	1
19	00-974130	Prep Washer Drain Water Tempering Kit (Includes items 1 through 17).....	1

48 00-919364 Nut - Rivet 1/4-20

PART NOT ILLUSTRATED



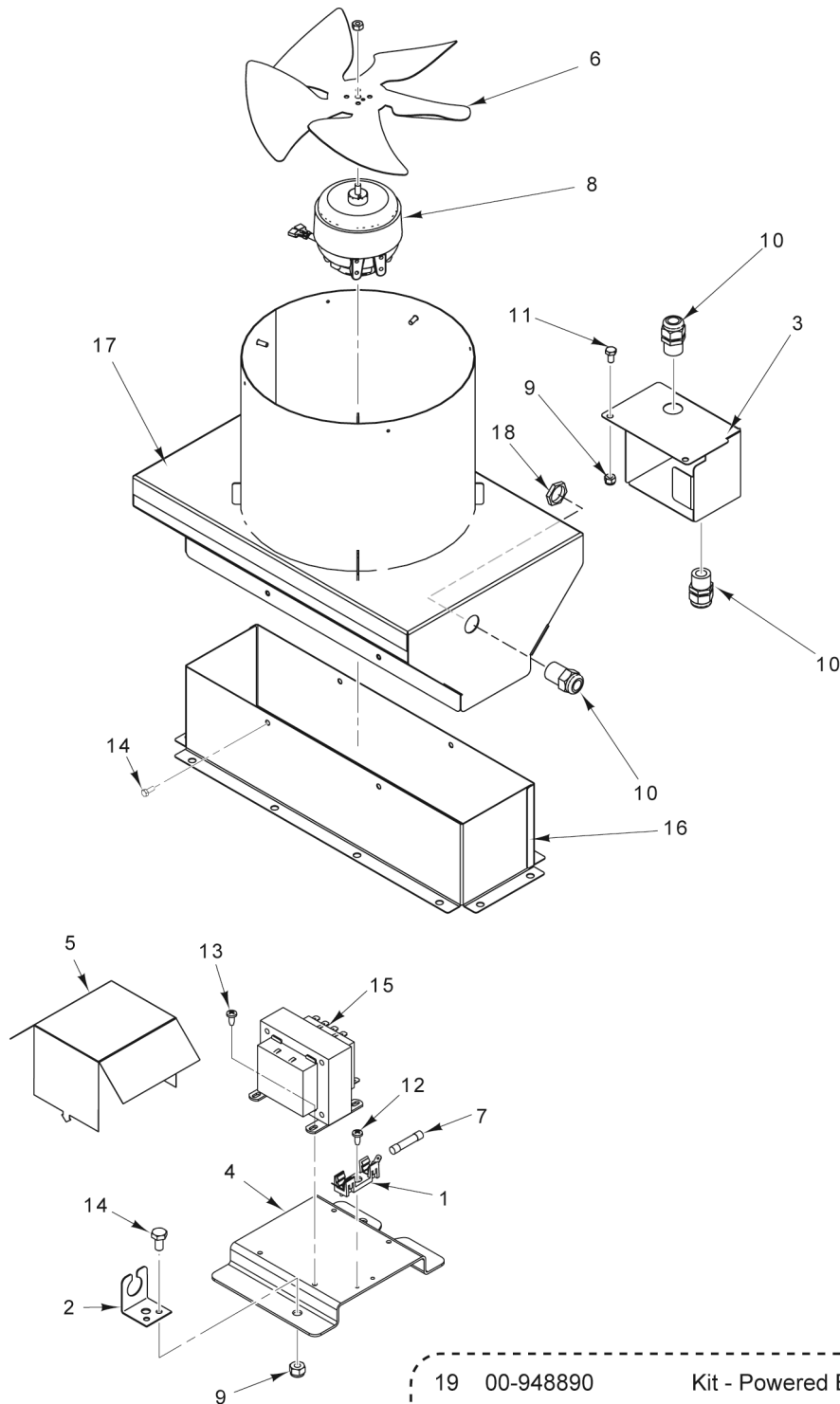
PW10 SHOWN

PL-60774

ENERGY RECOVERY UNIT

ENERGY RECOVERY UNIT

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-60774			
1	00-974039	Diffuser.....	AR
2	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	10
3	WS-017-06	Washer (SST).....	20
4	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	10
5	00-949115	Mount (Fan to Coil).....	1
6	00-941113	Coil - Steam Condensing.....	1
7	00-949114-00002	Plenum - Intake (With Flap) Before S/N 231176327.....	AR
	00-949477	Plenum - Ventless Intake Starting S/N 231176327.....	AR
8	00-441481	Tee 3/8 Barbed (PW20eR).....	2
9	00-941188	Bracket - Intake Plenum.....	2
10	00-949128-00001	Deflector Assy.....	1
11	00-949128-00002	Deflector Assy.....	1
12	FP-015-17	Elbow - Pipe 1/2 x 90 Deg. (Brass).....	2
13	FP-090-64	Adapter 1/2 MPT to 3/8 Hose.....	2
14	00-558090	Clamp.....	AR
15	00-941726-00004	Hose 3/8 (3.5 In. Lg.).....	1
16	00-941416	Restrictor - Flow.....	1
17	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	8
18	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	8
19	00-949268	Duct - Side.....	1
20	00-949107	Duct - Front.....	1
21	00-949108	Duct - Top.....	1
22	00-949106	Duct - Rear.....	1
23	00-949105	Duct Assy. (Incls. Items 17 thru 22).....	1
24	FE-022-84	Connector - Strain Relief.....	2
25	00-949111-00002	Blower Assy. (Incls. Items 26 thru 34 & 48 [Qty 2]).....	AR
26	00-941200-00002	Housing - Fan.....	1
27	00-941187	Motor - Fan.....	1
28	NS-011-12	Stop Nut 8-32 (SST).....	4
29	00-948690	Seal - Fan Shaft.....	1
30	NS-031-08	Stop Nut 8-32 Special (SST).....	4
31	00-941200-00003	Impeller - Fan.....	1
32	00-941197-00002	Gasket - Motor.....	1
33	00-941197-00001	Gasket - Fan Intake.....	1
34	00-941184	Mount - Fan Motor.....	1
35	00-949112	Plate - Top (PW20eR Right Side).....	1
36	00-526454-00002	Foam Tape.....	AR
37	00-941420	Logo - Advansys.....	1
38	00-941349	Bracket - Baffle.....	AR
39	00-949007	Flap - Vent Before S/N 231176327.....	AR
	00-974565	Flap - Vent Starting S/N 231176327, Use With 00-949477.....	AR
40	00-949001	Cover - Valve.....	1
41	00-941798	Valve (Deltrol).....	1
42	00-941726-00001	Hose 3/8 (23.62 In. Lg.).....	1
43	00-941726-00007	Hose 3/8 (15 In. Lg.).....	1
44	00-941726-00017	Hose 3/8 (28 In. Lg.).....	1
45	00-941726-00015	Hose 3/8 (13.50 In. Lg.).....	1
46	00-949125-00001	Shroud - Front (PW10eR).....	1
47	00-949125-00002	Shroud - Front (PW20eR).....	1
48	00-919364	Nut - Rivet 1/4-20.....	9



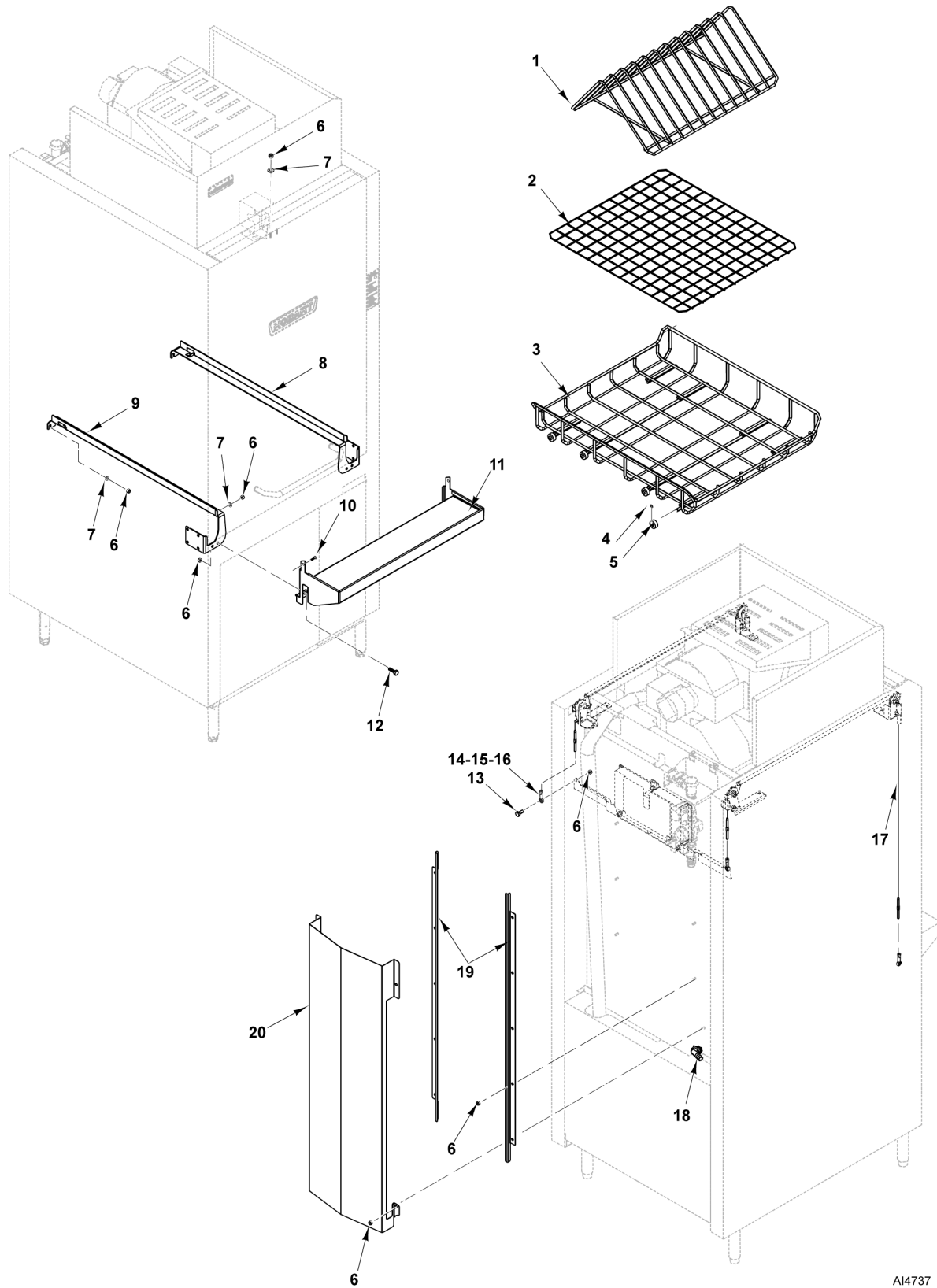
PL-60866

19 00-948890 Kit - Powered Exhaust Vent Assy.
PART NOT ILLUSTRATED

EXHAUST VENT ASSEMBLY

EXHAUST VENT ASSEMBLY

ILLUS.	PART NO.	NAME OF PART	AMT.
1	00-294436-00003	Block - Fuse.....	1
2	00-918732	Bracket - Strain Relief.....	1
3	00-974141	Bracket.....	1
4	00-948997	Bracket - Mounting.....	1
5	00-950229	Cover - Mylar.....	1
6	00-892250	Blade - Fan (10-1/2 In. Wing).....	1
7	FE-026-92	Fuse (2.5 Amp.) (250 V.).....	1
8	00-918088	Motor - Fan (Exhaust) (120 V.).....	1
9	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	4
10	FE-022-84	Connector - Strain Relief.....	3
11	SC-041-50	Cap Screw 1/4-20 x 1/2 Hex Hd. (SST).....	4
12	SD-008-17	Self-Tapping Screw 6-20 x 3/8 Phil. Bndg. Hd., Type B.....	1
13	SD-008-18	Self-Tapping Screw 8-18 x 3/8 Phil. Bndg. Hd., Type B.....	4
14	SC-067-06	Mach. Screw 10-24 x 1/2 Hex Hd.....	4
15	00-294500-052-1	Transformer (100 VA.) (50/60 Hz.).....	1
16	00-948894	Vent Weldment.....	1
17	00-948891	Duct - Exhaust.....	1
18	FE-024-88	Lock Nut 1/2 Electrical.....	3
19	00-948890	Kit - Powered Exhaust Vent Assy. (Incls. Items 1 thru 18).....	1

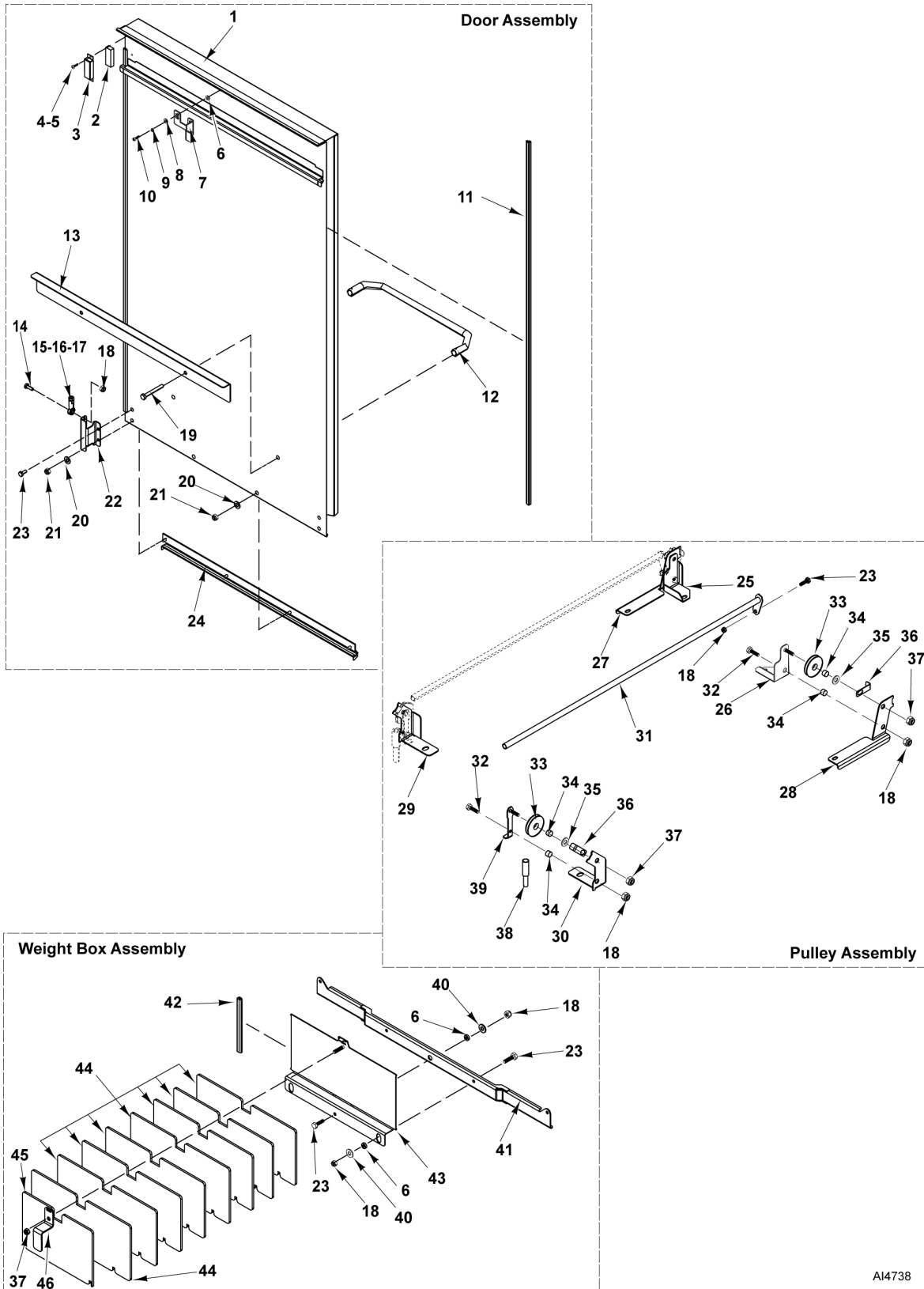


A14737

RACK, CABLES, SHELF, AND MISCELLANEOUS (PWV)

RACK, CABLES, SHELF, AND MISCELLANEOUS (PWV)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-AI4737			
1	00-948776-00003	Rack - 12 Pan.....	1
2	00-950677	Insert - Basket.....	1
3	00-974381	Rack - PWV Basket.....	1
4	RR-006-23	Retaining Ring.....	8
5	00-949014	Roller - Conveyor Rack.....	8
6	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	26
7	WS-017-06	Washer (SST).....	14
8	00-974984-00002	Guide - PWV Rack (RH).....	1
9	00-974984-00001	Guide - PWV Rack (LH).....	1
10	SC-125-45	Screw - Mach. 8-32 x 3/4 (Flat Cross).....	2
11	00-913102-00250	Assy. - Shelf Kit.....	1
12	SC-125-45	Screw - Mach. 8-32 x 3/4 (Flat Cross).....	2
13	SC-041-01	Cap Screw 1/4-20 x 3/4 Hex Hd. (SST).....	2
14	00-948826	Rod-End (1/4-28).....	2
15	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
16	NS-015-06	Nut - Hex (1/4-28).....	2
17	00-975035	Assy. - Wire Cable.....	2
18	00-185104	Elbow.....	2
19	00-974988	Guide - Channel.....	2
20	00-975039	Cover - Pulley Rear.....	1



AI4738

DOOR, PULLEYS, AND WEIGHTS (PWV)

DOOR, PULLEYS, AND WEIGHTS (PWV)

ILLUS.	PART NO.	NAME OF PART	AMT.
PL-AI4738			
1	00-974993-00001	Assy. - PWV Door.....	1
2	00-290160	Magnet.....	1
3	00-290159	Retainer - Magnet.....	1
4	SC-066-01	Mach. Screw 6-32 x 1/4 Phil. Truss Hd.....	2
5	NS-031-50	Stop Nut 6-32 Hex (SST).....	2
6	WS-022-25	Washer.....	4
7	00-948940	Bracket - Switch (ER Units Only).....	1
8	WS-019-06	Washer.....	2
9	WL-006-06	Lockwasher #10 Helical (SST).....	2
10	SC-123-01	Cap Screw 10-24 x 3/4 Hex Socket Hd. (SST).....	2
11	00-112378-00048	Door - Slide.....	2
12	00-748221	Handle - PWV Door.....	1
13	00-975001	Stop - Door.....	1
14	SC-041-01	Cap Screw 1/4-20 x 3/4 Hex Hd. (SST).....	2
15	00-948826	Rod-End (1/4-28).....	2
16	WL-006-17	Lockwasher 1/4 Helical (SST).....	2
17	NS-015-06	Nut - Hex (1/4-28).....	2
18	NS-047-82	Stop Nut 1/4-20 Hex (SST).....	13
19	SC-041-62	Cap Screw 5/16-18 x 2-1/2 Hex Hd. (SST).....	2
20	WS-017-06	Washer (SST).....	4
21	NS-047-86	Stop Nut 1/4-20 Hex (SST).....	4
22	00-974999	Bracket - Door.....	2
23	SC-041-05	Cap Screw 1/4-20 x 5/8 Hex Hd. (SST).....	7
24	00-948819-00001	Gutter (Upper Door) Gutter - Door.....	1
25	00-974982-00002	Mount - PWV Pulley (Right Rear).....	1
26	00-974982-00001	Mount - PWV Pulley (Left Rear).....	1
27	00-975005-00002	Bracket - Clevis (Right Rear).....	1
28	00-975005-00001	Bracket - Clevis (Left Rear).....	1
29	00-974981-00002	Mount - PWV Pulley (Right Front).....	1
30	00-974981-00001	Mount - PWV Pulley (Left Front).....	1
31	00-974990	Tube - Cable.....	2
32	SC-041-02	Cap Screw 1/4-20 x 1 Hex Hd. (SST).....	4
33	00-975031	Sheave (2" OD).....	4
34	00-893014-00001	Spacer Door Link (Upper).....	8
35	WS-017-01	Washer 0.328 x 0.875 x 0.062 (SST).....	4
36	00-975030	Lock - Pulley Wire.....	4
37	NS-036-19	Stop Nut 5/16-18 Hex (SST).....	5
38	00-975002	Bushing - Flanged.....	2
39	00-975004	Bracket - Front Clevis.....	2
40	WS-003-47	Washer (SST).....	3
41	00-975003	Pivot - Balance Bar.....	1
42	00-975037	Slide.....	2
43	00-974986-00001	Weldment - Plate Weight.....	1
44	00-974987-00001	Weight - Large.....	8
45	00-974987-00002	Weight - Small.....	1
46	00-974989	Lock - Weight.....	1