

# **TECHNICAL MANUAL**

Installation, Operation and Maintenance Instructions

# **MASTER & CLIPPER**

**Flight Type Dishwashers** 

Insinger Machine Company 6245 State Road Philadelphia, PA 19135-2996

**800-344-4802** Fax: 215-624-6966 www.insingermachine.com



#### Thank you for purchasing this quality Insinger product.

On the space provided below please record the model, serial number and start-up date of this unit:

Model:

Serial Number:\_\_\_\_\_

Start-Up Date:\_\_\_\_\_

When referring to this equipment please have this information available.

Each piece of equipment at Insinger is carefully tested before shipment for proper operation. If the need for service should arise please contact your local Authorized Insinger Service Company.

A Service Network Listing is provided on our web site, www.insingermachine.com or call Insinger at 800-344-4802 for your local authorized servicer.

For proper activation of the *Insinger Limited* Warranty a SureFire<sup>™</sup> Start-Up & Check-Out Service should be completed on your machine. Refer to the Introduction section in this manual for an explanation of Insinger SureFire<sup>™</sup> Start-Up & Check-Out Program.

Please read the Insinger Limited Warantyt and all installation and operation instructions carefully before attempting to install or operate your new Insinger product.

To register your machine for warranty by phone, fax or the internet or for answers to question concerning installation, operation, or service contact our Technical Services Department:

#### **TECHNICAL SERVICE CONTACTS**

Toll-Free	800-344-4802
Fax	215-624-6966
E-mail	service@insingermachine.com
Web	www.insingermachine.com

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# Insinger Essential 🗊 Series

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### **CLIPPER** Three Tank Rackless Conveyor Dishwasher

- Automatic conveyor, flight type three tank dishwasher with recirculating prewash, wash and rinse; and fresh water final rinse
- 124 gallons/hour final rinse consumption
- Capacity is 8,812 dishes per hour

The patented CrossFire® Wash

horizontally, as well as, from above

and below, cleaning and sanitizing

System power sprays water

the dirtiest of ware.

- Conveyor speed of 6.8 feet per minute
- CrossFire® Wash System provides superior cleaning
- Error proof replacement with color-coded curtains
- Designed for left or right hand conveyor travel, as specified

#### **STANDARD FEATURES**

- CrossFire® Wash System
- SureFire® Start-Up & Check-Out Service
- Tank heat: 60.0 kW electric immersion heaters or steam injectors
- Capillary thermometers for pre-wash, wash, rinse and final rinse
- Final rinse pressure gauge
- Vacuum breaker on all incoming water lines
- Manifold clean-out brush
- Inspection and clean-out doors
- S/S frame, legs and feet
- S/S front enclosure panel
- Automatic tank fill
- Low water protection
- Detergent connection provision
- Top mounted NEMA 12 control panel
- Simplified scrap screen design
- Door safety switch
- Exhaust connections with adjustable dampers
- Standard frame drip proof motors
- Conveyor reversing switch
- Polypropylene belt with removable rack sections
- Conveyor safety stop bar
- Interior work lights
- Override switch for de-liming
- End caps/pipe plugs secured to prevent loss
- Color-coded curtains
- □ Stainless steel steam coil tank heat
- □ Steam
- Electric booster
- □ Pressure reduction valve and line strainer
- □ Single point electrical connection: motors, controls and heaters.
- □ S/S panels on all sides
- Security package
- □ Totally enclosed motors
- Insulated hood
- □ Stainless steel belt with removable rack sections

## 

#### **OPTIONS**



#### Capacity Per Hour 8.812 dishes 500-1,000 meals Tank Capacity 24 gals. (pre-wash) 27 gals. (wash) 30 gals. (rinse) Motor Size 1 1/2 hp (pre-wash) 2 hp (wash) 2 hp (rinse) 1/2 hp (conveyor) Electric Usage 60.0 kW wash tanks \*15.0 kW booster 40° rise \*27.0 kW booster 70° rise Steam Consumption 218 lbs./hour tank at 20 psi min. 54 lbs./hour remote booster 40° rise 96 lbs./hour remote booster 70° rise Final Rinse Peak Flow 2.1 gallons/minute at 20 psi min. Final Rinse Consumption 124 gallons/hour at 20 psi min. Exhaust Hood Require-750 CFM Load

750 CFM unload

23 gallons/minute

Steam

25.2

22.9

11.4

13.8

Electric

198.9

171.8

85.6

107.6

3000 lbs.

\*Booster requires separate electrical connection

ment

Peak Rate Drain Flow

Shipping Weight

Machine Electrical

Motors. Controls

Tank Heat

208/3/60

240/3/60

480/3/60

380/3/50

Contact Insinger Sales at 800-344-4802 for an installation drawing specific to your application. This drawing is available on the Insinger webstie at www.insingermachine.com

Note: Due to product improvement we reserve the right to change information and specifications without notice.

#### CLIPPER Three Tank Rackless Conveyor Dishwasher

#### **SPECIFICATIONS**

CONSTRUCTION- Hood and tank all welded seamless construction using 16 gauge 18-8 type 304 S/S. S/S frame, legs and feet. All internal castings are non-corrosive nickel alloy, bronze or S/S.

DOORS- Three extra large die formed 18-8 type 304 S/S front inspection doors riding in all S/S channels. A triple ply leading edge on the door channels made of S/S with no plastic or nylon sleeves or liners used. Two intermediate S/S door-safety stops on each door.

CONVEYORS- Removable polypropylene or S/S rack section on S/S belt with polyethylene rollers. Conveyor drive system includes large speed reducer with cut gears operating in oil bath and frictionless, trouble-free overload release system. Conveyor transports dishware automatically through all washing and rinsing systems and is driven by an independent 1/2 hp motor. A trip bar at the end of the unload section stops the conveyor if any ware reaches the bar. A reversing switch is provided to assist in removing jams in the belt.

PUMPS- Centrifugal type "packless" pump with a brass petcock drains. Construction includes ceramic seal and a balanced cast impeller on a precision ground stainless steel shaft, extension or sleeve. All working parts mounted as an assembly and removable as a unit without disturbing pump housing. Two 2 hp motors wash and rinse and 1/2 hp pre-wash, all standard horizontal C-face frame, drip-proof, internally cooled with ball-bearing construction.

CONTROLS- Top mounted control cabinet, NEMA 12 rated with heat insulation provided between hood and control cabinet, housing motor controls and overload protection, transformer, contactors and all dishwasher integral controls. All controls safe low voltage 24 VAC.

ENERGY SAVER- Electric photo eye automatically operates the final rinse solenoid only when ware passes, saving water and energy. The photo eye also activates an adjustable timer control. If no ware passes during the set time, the machine shuts down.

SPRAY SYSTEM- Spray arms made of type 304 stainless steel pipe. Spray assemblies removable without the use of tools.

PRE-WASH- Upper and lower manifolds. One manifold above with 3 power pre-wash nozzles, one manifold below with 3 power pre-wash nozzles.

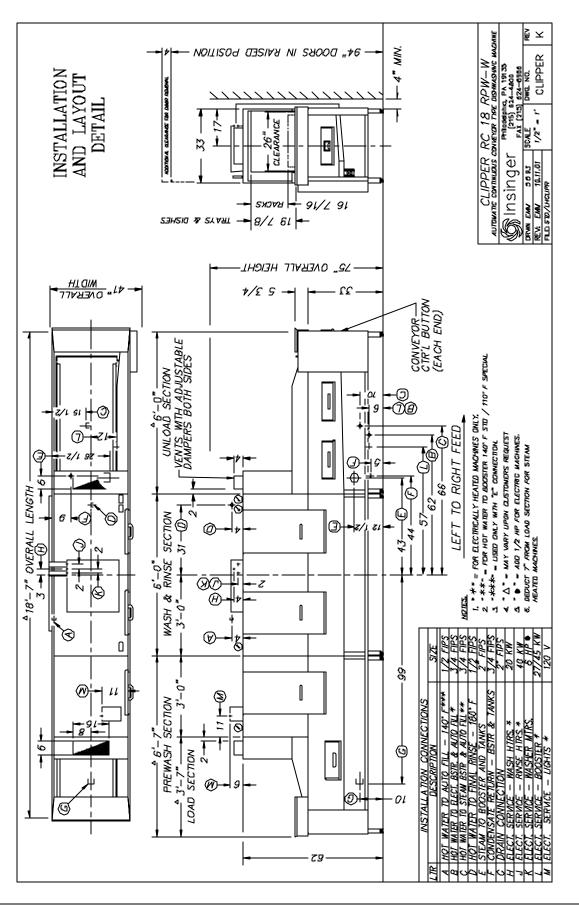
WASH- Upper and lower manifolds with the patented CrossFire® Wash System. Each manifold has 3 upper and 4 lower power wash arms designed with pressure action cleansing slots. The slots are precision milled for water control producing a fan spray. Wash arms are fillet welded to the S/S manifold. The CrossFire system provides 2 horizontally spraying high pressure nozzles.

RINSE- Upper and lower manifolds. Each manifold has 3 upper and 4 lower power rinse arms designed with pressure action fan spray reducing water consumption, maximizing heat retention.

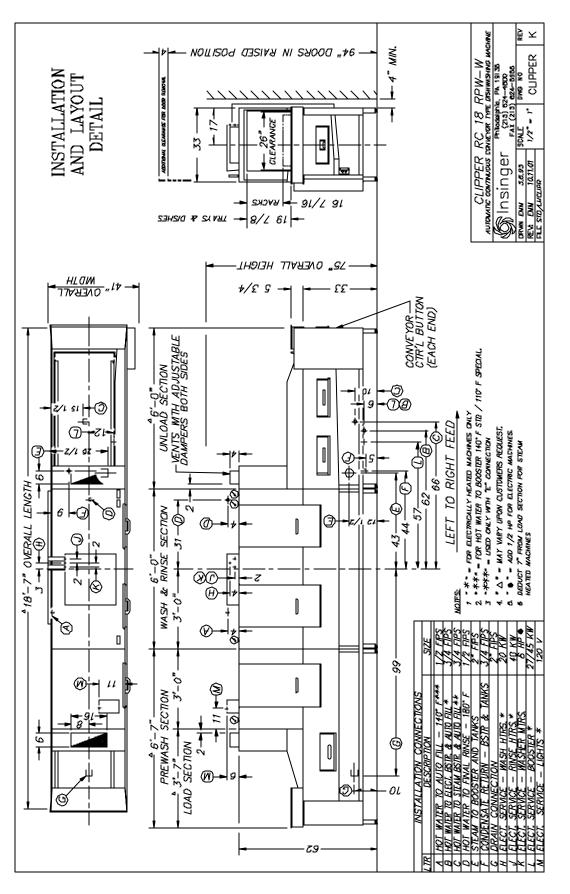
FINAL RINSE- Eight nozzle assemblies above and four nozzles below threaded into S/S schedule 40 pipes. Nozzle assemblies produce a fan spray reducing water consumption, maximizing heat retention.

DRAIN- Drain valve externally controlled. Overflow assembly with skimmer cap is removable without the use of tools for drain line inspection. Heater is protected by low water level control.











# Insinger) ESSENTIAL 🜍 SERIES

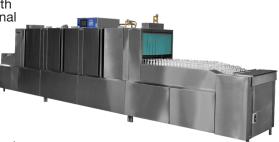
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### MASTER **Three Tank Rackless Conveyor Dishwasher**

- Automatic conveyor, flight type three tank dishwasher with recirculating prewash, wash and rinse; and fresh water final rinse.
- 124 gallons/hour final rinse consumption
- Capacity is 14,300 dishes per hour
- Conveyor speed of 11 feet per minute
- CrossFire® Wash System provides superior cleaning
- Error proof replacement with color-coded curtains
- Designed for left or right hand conveyor travel, as specified

#### STANDARD FEATURES

- Patented CrossFire® Wash System
- SureFire® Start-Up & Check-Out Service
- Tank heat: 60.0 kW electric immersion heaters or steam injectors
- Capillary thermometers for pre-wash, wash, rinse and final rinse
- Final rinse pressure gauge
- Vacuum breaker on all incoming water lines
- Manifold clean-out brush
- Inspection and clean-out doors
- S/S frame, legs and feet
- S/S front enclosure panel
- Automatic tank fill
- Low water protection
- Detergent connection provision
- Top mounted NEMA 12 control panel
- Simplified scrap screen design
- Door safety switch
- Exhaust connections with adjustable dampers
- Standard frame drip proof motors
- Conveyor reversing switch
- Polypropylene belt with removable rack sections
- Conveyor safety stop bar
- Interior work lights
- Override switch for de-liming
- End caps/pipe plugs secured to prevent loss
- Color-coded curtains





The patented CrossFire® Wash System power sprays water horizontally, as well as, from above and below, cleaning and sanitizing the dirtiest of ware.

#### **OPTIONS**

- Stainless steel steam coil tank heat
- Gas tank heat
- Steam booster
- Electric booster
- Pressure reduction valve and line strainer
- □ Single point electrical connection: motors, controls and heaters.
- □ S/S panels on all sides
- □ Heavy duty ultra durable scrap screens
- □ Security package
- □ Totally enclosed motors
- Insulated hood
- Stainless steel belt with removable rack sections





### **MASTER** Three Tank Rackless Conveyor Dishwasher

#### **SPECIFICATIONS**

CONSTRUCTION- Hood and tank all welded seamless construction using 16 gauge 18-8 type 304 S/S. S/S frame, legs and feet. All internal castings are non-corrosive nickel alloy, bronze or S/S.

DOORS- Three extra large die formed 18-8 type 304 S/S front inspection doors riding in all S/S channels. A triple ply leading edge on the door channels made of S/S with no plastic or nylon sleeves or liners used. Two intermediate S/S door-safety stops on each door.

CONVEYORS- Removable polypropylene or S/S rack section on S/S belt with polyethylene rollers. Conveyor drive system includes large speed reducer with cut gears operating in oil bath and frictionless, trouble-free overload release system. Conveyor transports dishware automatically through all washing and rinsing systems and is driven by an independent 1/2 hp motor. A trip bar at the end of the unload section stops the conveyor if any ware reaches the bar. A reversing switch is provided to assist in removing jams in the belt.

PUMPS- Centrifugal type "packless" pump with a brass petcock drains. Construction includes ceramic seal and a balanced cast impeller on a precision ground stainless steel shaft, extension or sleeve. All working parts mounted as an assembly and removable as a unit without disturbing pump housing. Two 2 hp motors wash and rinse and 1/2 hp pre-wash, all standard horizontal C-face frame, drip-proof, internally cooled with ball-bearing construction.

CONTROLS- Top mounted control cabinet, NEMA 12 rated with heat insulation provided between hood and control cabinet, housing motor controls and overload protection, transformer, contactors and all dishwasher integral controls. All controls safe low voltage 24 VAC.

ENERGY SAVER- Electric photo eye automatically operates the final rinse solenoid only when ware passes, saving water and energy. The photo eye also activates an adjustable timer control. If no ware passes during the set time, the machine shuts down.

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PRE-WASH- Upper and lower manifolds. One manifold above with 3 power pre-wash nozzles, one manifold below with 3 power pre-wash nozzles.

WASH- Upper and lower manifolds with the patented CrossFire® Wash System. Each manifold has 3 upper and 4 lower power wash arms designed with pressure action cleansing slots. The slots are precision milled for water control producing a fan spray. Wash arms are fillet welded to the S/S manifold. The CrossFire system provides 2 horizontally spraying high pressure nozzles.

RINSE- Upper and lower manifolds. Each manifold has 3 upper and 4 lower power rinse arms designed with pressure action fan spray reducing water consumption, maximizing heat retention.

FINAL RINSE- Eight nozzle assemblies above and four nozzles below threaded into S/S schedule 40 pipes. Nozzle assemblies produce a fan spray reducing water consumption, maximizing heat retention.

DRAIN- Drain valve externally controlled. Overflow assembly with skimmer cap is removable without the use of tools for drain line inspection. Heater is protected by low water level control.

Capacity Per Hour	14,000 dishes 1,000-2,200 meals
Tank Capacity	24 gals. (pre-wash) 36 gals. (wash) 40 gals. (rinse)
Motor Size	2 hp (pre-wash) 3 hp (wash) 3 hp (rinse) 1/2 hp (conveyor)
Electric Usage	60.0 kW wash tanks *15.0 kW booster 40° rise *27.0 kW booster 70° rise
Steam Consumption at 20 psi min.	215 lbs./hour tank 54 lbs./hour remote booster 40° rise 96 lbs./hour remote booster 70° rise
Gas Consumption	205,000 BTUH 200 CFH natural gas 82 CFH propane
Final Rinse Peak Flow at 20 psi min.	2.1 gallons/minute
Final Rinse Consumption at 20 psi min.	124 gallons/hour
Exhaust Hood Requirement	750 CFM Load 750 CFM unload
Peak Rate Drain Flow	23 gallons/minute
Shipping Weight	3327 lbs.

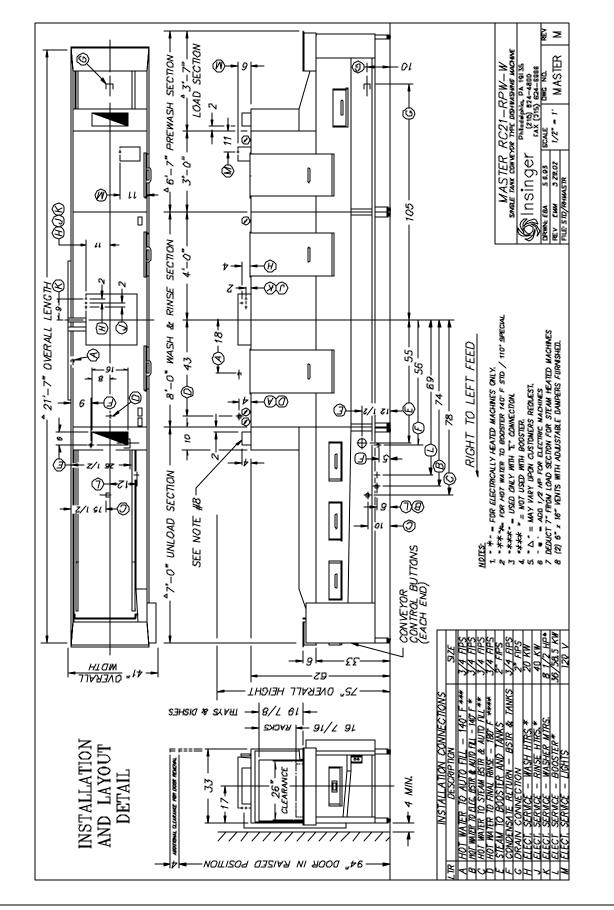
Machine Electrical			
Motors, Controls Tank Heat	Steam	Gas w/o booster	Electric
208/3/60 240/3/60 480/3/60 380/3/50	32.3 29.2 14.6 17.7	39.5 35.8 17.9 21.7	203.9 178.2 88.8 111.5

\*Booster requires separate electrical connection

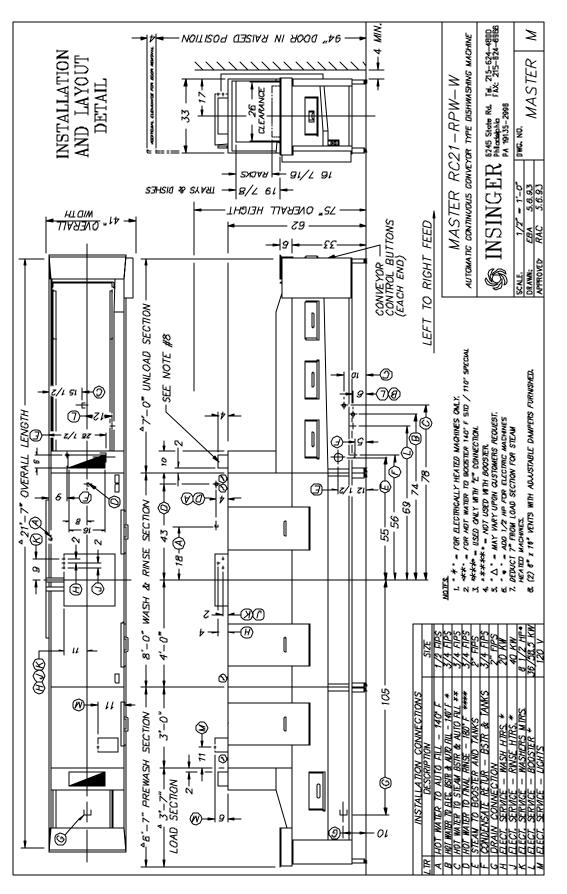
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Note: Due to product improvement we reserve the right to change information and specifications without notice.











#### MASTER/CLIPPER FLIGHT MACHINES

#### INTRODUCTION

#### Purpose

The purpose of this technical manual is to provide installation, operation, cleaning and maintenance directions.

A section is provided for replacement parts.

#### Scope

This manual contains all pertinent information to assist in the proper installation, operation, cleaning, maintenance, and parts ordering for Insinger Flight machines including the Clipper and Master.

The installation instructions are intended for qualified equipment installers. The operation and cleaning instructions are intended for the daily users of the equipment. The maintenance and parts sections are intended for qualified service and/or maintenance technicians. Replacement parts may be ordered directly from our factory or from vour local Insinger Authorized Service Agency. You can speak to the **Insinger Technical Services** Department, 800/344-4802, or e-mail us at service@insingermachine.com. When calling for warranty information or replacement parts please provide the model and serial number of your Insinger Equipment. These important numbers should be noted in this manual on the spaces provided on the opening page.

Surefire<sup>™</sup> Start-up & Check-out Program Insinger is proud to offer our exclusive Surefire<sup>™</sup> Start-up & Check-out Program to our commercial customers. This service is included in the purchase price of your new Insinger dishwasher. We will provide an authorized factory service technician for the initial start-up of your new Insinger dishwasher to ensure it is running at optimum levels from the very first pass. Please call the factory or your local Insinger Sales Representative to schedule this service. NSF 3-2003 requirements for detergent and chemical sanitizer dispensers.

This machine must be operated with an automatic detergent dispenser and, if applicable, an automatic chemical sanitizer feeder, including a visual means to verify that detergents and sanitizers are delivered or a visual or audible alarm to signal if detergents and sanitizers are not available for delivery to the respective washing and sanitizing systems. Please see instructions for electrical and plumbing connections located in this manual and in the feeder equipment manual.

Definitions

Throughout this guide you will find the following terms: WARNING, CAUTION, & NOTE.

**WARNING** indicates potential physical danger. **CAUTION** indicates potential equipment damage. **NOTE** indicates helpful operating hints or tips.

You will visually be able to identify each as shown below:



WARNING: Indicates potential physical danger.



NOTE: Indicates helpful operating hints or tips.

#### CAUTION:

Indicates potential equipment damage.



#### INSINGER MACHINE COMPANY LIMITED WARRANTY

Insinger Machine Company, Inc. (Insinger) hereby warrants to the original retail purchaser of this Insinger Machine Company, Inc. product, that if it is assembled and operated in accordance with the printed instructions accompanying it, then for a period of either 15 months from the date of shipment from Insinger or 1 year (12 months) from the date of installation, that said Insinger product shall be free from defects in material and workmanship. Whichever one of the two aforestated limited warranty time periods is the longest shall be the applicable limited warranty coverage time period.

Insinger may require reasonable proof of your date of purchase; therefore, you should retain your copy of invoice or shipping document.

This limited warranty shall be limited to the repair or replacement of parts which prove defective under normal use and service and which on examination shall indicate, to Insinger's satisfaction, they are defective. Any part that is claimed to be defective and covered by this limited warranty must be returned to Insinger, this may be done through an Authorized Service Agency. Furnish serial number of machine with shipment and send to:

> Insinger Machine Company 6245 State Road Philadelphia, PA 19135-2996

If Insinger's inspection confirms the defect and the claim, Insinger will repair or replace such part without charge and return it to you freight or postage prepaid.

This limited warranty does not cover any failure or accident, abuse, misuse, alteration, misapplication, improper installation, fire, flood, acts of God or improper maintenance or service, or failure to perform normal and routine maintenance as set out in the instruction booklet (operating instructions) or for improper operation or failure to follow normal operating instructions (as set out in the instruction booklet). Insinger is not responsible nor liable for any conditions of erosion or corrosion caused by corrosive detergents, acids, lye or other chemicals used in the washing and or cleaning process.

Service must be done by either Insinger Appointed Service Agencies or agencies receiving prior authorization from Insinger.

All warranty work must be done during normal working hours, unless purchaser receives prior authorization from Insinger.

There are no other express warrants except as set forth herein and any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this express written limited warranty. This limited warranty supersedes all other express warranties, implied warranties of merchant-ability and fitness or limited warranties as of this date, January 1, 1998. Some states do not allow limitation on how long an implied warranty lasts so this limitation may not apply to you.

Insinger is not liable for any special, indirect or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation nor exclusion may not apply to you.

Insinger does not authorize any person or company to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return or replacement of its equipment: and no such representations are binding on Insinger.



# INSINGER MACHINE COMPANY LIMITED WARRANTY COMMERCIAL MARINE USE

Insinger Machine Company, Inc. (Insinger) hereby warrants to the original retail purchaser of this Insinger Machine Company, Inc. product, that if it is assembled and operated in accordance with the printed instructions accompanying it (installation manual), then for a period of 18 months from the date of installation on board the vessel, that said Insinger product shall be free from defects in material and workmanship.

Insinger may require reasonable proof of your date of equipment install, therefore, you should retain your copy of invoice or shipping document.

This limited warranty shall be limited to the replacement of parts which prove defective under normal use and service and which on examination shall indicate, to Insinger's satisfaction, they are defective. Any part that is claimed to be defective and covered by this limited warranty must be returned to Insinger. Furnish serial number of machine with shipment and send to:

> Insinger Machine Company, Inc. 6245 State Road Philadelphia, PA 19135-2996

If Insinger's inspection confirms the defect and the claim, Insinger will repair or replace such part without charge and return it to you freight or postage prepaid. If part damages are not covered, Insinger will contact Customer and advise.

If a factory trained authorized technician is required to repair or replace defective parts or material during the 18 month warranty period, the cruise line will be responsible for the payment of travel expense and a minimum of four hours labor. Labor will be billed to the customer at a reduced rate of \$40.00 per hour. If sailing with a vessel is required, then an eight hour per day minimum will apply.

This limited warranty does not cover accident, abuse, misuse, alteration, misapplication, improper installation, fire, flood, or improper maintenance or service, or failure to perform normal and routine maintenance as set out in the instruction booklet (operating instructions) or for improper operation or failure to follow normal operating instructions (as set out in the instruction booklet).

Insinger is not responsible nor liable for any conditions of erosion or corrosion caused by corrosive detergents, acids, lye or other chemicals used in the washing, caring and or cleaning process.

Warranty service must be done by either Insinger Appointed Service Agencies or agencies, customers galley engineers receiving prior authorization from Insinger.

There are no other express warrants except as set forth herein and any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this express written limited warranty. This limited warranty supersedes all other express warranties, implied warranties of merchantability and fitness or limited warranties as the above date.

Insinger does not authorize any person or company locally or overseas to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return or replacement of its equipment; and no such representations are binding on Insinger.



#### INSTALLATION INSTRUCTIONS

Placement Carefully uncrate machine.

Bolt the three sections together.



#### NOTE:

Use a silicone caulking between the sections in addition to the gasketing material provided. This will minimize the possibility of leaks.

#### **Electrical Connections**

Connect electrical lines sized for the correct voltage, current and phase of the machine. These should agree with machine requirements indicated on the nameplate and labels in control panel.

On machines not provided with a single-point connection there is an electrical connection required for the, **1.** Pumps and control circuit, **2.** Wash tank heaters (electric heat only) and, **3.** Rinse tank heaters (electric only).

Machines provided with a single-point connection require one electrical connection in the control panel for all functions excluding the booster.



#### NOTE:

In each case connections must be made to a circuit breaker or fused disconnect as provided by the end-user and required by local codes. A wiring diagram is supplied inside the control panel. Please return diagram when finished.



#### NOTE:

As with any 3 phase system, an electrician should check all motors for proper phasing, i.e., Pump motors must be running in direction indicated by arrow on housing.

Electrical termination points are also required between each of the sections in the termination box located on the frame in the rear of the machine near where the sections meet. Mechanical Requirements

Connect 140°F and 180°F water supply to the tank and final rinse feeds respectively as tagged on the machines and noted on the installation drawing.

If machine is provided with steam heat connect the steam lines and steam condensate lines as tagged and noted on installation drawings.

Connect the drain lines.



Drain lines must be as specified on installation drawings. Drain line should be properly vented and should have fall of not less than ¼" to the foot of proper flow. Some area plumbing codes require drains to flow into an open gap with an opening twice the diameter of the pipe. Check with your local plumbing codes for the type of drain connection required.



#### NOTE:

All lines should be flushed prior to use to remove debris.



#### NOTE:

Do not reduce the size of lines as specified in installation drawings. All lines are sized to facilitate necessary flows, pressures, etc.

Adjust the compression spring located on the conveyor overload shutoff mechanism. This can be found on the unload end of the machine under the mechanism guard. There is sticker marked with the factory test setting of the spring. Adjust to this point then run the conveyor full of ware. If the machine does not shut down the adjustment is set. If it does shut down adjust the spring tighter until the machine runs continuously.



#### HVAC

Ventilation system should be sized to provide adequate ventilation per machine specs. Refer to spec sheet.

Stainless steel, watertight ducting should be connected to the vent cowls on each end of the machine or an overhead venting system should be installed.

#### Chemicals

Upon completed installation of the dishwasher contact a local detergent/chemical supplier for the correct chemicals for your area.

Electrical connection points for the detergent dispenser and rinse injector are located inside the control panel. Refer to the wiring diagram for this machine for the proper connection points. The detergent density probe should be located in a convenient place in the wash tank.



Insinger dishwashers are user-friendly, making them the easiest dishwashers on the market to operate and maintain.

By following the operation procedure and general cleaning procedures your Insinger dishwasher will give you years of trouble free service.

**OPERATION INSTRUCTIONS** 

- 1. Ensure drain overflow tube is in place. Close all tank drain valves. One drain is provided for each tank of the dish machine.
- 2. Check for proper installation and cleanliness of all internal, removable components such as suction strainers, scrap screens, and spray manifolds.
- 3. Ensure all water, and steam lines are open. Ensure electrical circuits are on.
- 4. Close machine doors.



#### NOTE:

An interlock is provided to shut the machine down if the doors are open, therefore the machine will not run if doors are opened. Machines provided with the Prison Package do not have this feature.

- Move the 2 position selector switch to the "ON" position.
- 6. The machine will automatically begin to fill.
- 7. When the tanks are full the tank heat will operate automatically.



NOTE:

To ensure proper operation of the auto tank fill feature and the tank heaters the two (2) level probes located in each tank MUST be cleaned daily.

- 8. Depress the Green button on the control panel to operate the pumps.
- 9. Located at the load and unload end of the machine is a start/stop station for operating the conveyor system. Depress the green button to start the conveyor.



#### NOTE:

An emergency stop bar is located at the end of the conveyor belt to shut the belt down. This will minimize ware breakage if the machine is not unloaded in time.

10. For machines provided with the Conveyor Overload Shutoff Mechanism a light labeled "Check Conveyor Belt" is provided on the control panel. When this light illuminates the machine will automatically shut down. Check the conveyor belt for jamming or ware caught in the belt.



### NOTE:

Should the light illuminate and the machine shut-down after an initial check for jams, DO NOT continue running the machine. Immediately contact a maintenance person or qualified service technician. Refer to the Conveyor Overload Shutoff Mechanism Adjustment section in the Maintenance Section of the manual.

- 11. The system is now ready for operation. All ware should be properly scrapped.
- 12. Place dirty ware on the conveyor belt. The ware will pass through the various machine cycles. The final rinse is automatically started when ware passes the photo-eye located at the entrance of the machine.

### NOTE:

The photo-eye located at the entrance of the machine should be cleaned daily of lime buildup for proper operation of the energy saver feature and the final rinse.

#### NOTE:

Move the Power toggle switch to the "OFF" position before draining the machine.

- 13. Refer to the cleaning procedures for proper clean-up of the dish machine.
- 14. Report any unusual occurrences to qualified service personnel.



#### CLEANING PROCEDURES

The following cleaning procedures should be done daily, at the end of the shift.

#### Daily

- 1. Remove all internal removable parts including spray manifolds, scrap screens, drain overflow tubes, suction strainers and curtains.
- 2. Remove the end caps from the spray manifolds and clean with the brush provided. Flush the manifolds.
- 3. Flush scrap screens.
- 4. Clean drain overflow tube.



#### NOTE:

V-cup seal on the drain overflow tube may become gummed not allowing a proper seal of the overflow tube. This will cause the drain to leak water. Remove any build-up on the V-cup seal. When the seal becomes worn, replace.

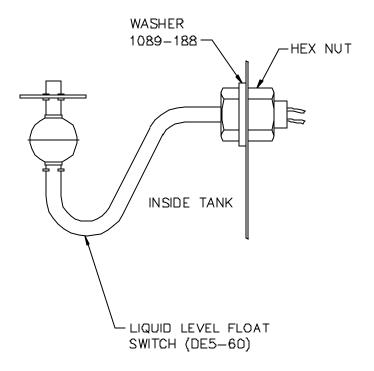
5. Clean suction strainers of build-up.



#### NOTE:

Improper cleaning of suction strainer will cause the pumps to cavitate. This will cause poor washing results.

6. Clean tank level floats (2 per tank) with Scotch-Brite or equivalent.





### WARNING:

Level floats must be cleaned daily. Build-up of grease and scum will cause faulty operation of tank fill and heating system.

- 7. Clean curtains. When curtains are beyond cleaning or torn they should be replaced.
- 8. Final rinse nozzles should be cleaned of matter clogging the jet spray.
- 9. Clean the photo-eye lenses with a damp, soft cloth.
- 10. Doors should be left open to allow drying of interior surfaces.



The following is a basic guide for the repair and replacement of common dishwasher parts. Refer to the Basic Service Guide for troubleshooting tips.

#### MAINTENANCE REQUIREMENTS

#### Daily

1. Refer to the operation and cleaning instructions provided in this manual for daily cleaning procedures.

#### Weekly

- The entire machine should be wiped down using an industrial grade stainless steel cleaner.
- 2. Under the supervision of your detergent supplier the machine interior must be properly de-limed.



#### NOTE:

The water quality in some areas requires deliming to be done more frequently. Contact your detergent supplier for recommended de-liming frequency.

#### Quarterly

- 1. Remove and clean the strainer screens on water and steam lines. If the screens cannot be cleaned, replace.
- 2. Inspect condition of solenoid valve seats and diaphragms. Replace where necessary.
- 3. Inspect drain O-Rings for leakage. Replace where necessary.
- 4. Adjust conveyor chain tension using adjustment bolts located on exit end of machine.

#### MAINTENANCE PROCEDURES

#### Solenoid Valve Disassembly

- 1. Disconnect power supply to machine. Turn off water supply.
- 2. Remove cap on top of coil. Remove coil.
- 3. Remove 4 hex bolts and lift bonnet from valve body. Note positioning of spring and plunger.
- Remove main piston.
- 5. Inspect for dirt, wear or lime build-up. Clean or replace as required.
- 6. Reassemble in reverse of disassembly.

Line Strainer Disassembly

- 1. Shut off water or steam supply.
- 2. Remove large hex nut on bottom of strainer body.
- 3. Remove strainer screen. Inspect and clean or replace as necessary.
- 4. Reassemble in reverse of disassembly. Water flow must be same direction as arrow on line strainer body. Use new gaskets to insure a tight seal.

#### Pump Disassembly

- 1. Before disassembling pump ensure there are no obstructions in the pump intake. Remove and clean the suction strainer (inside tank). See dwg. SK-4702 and SK-4702
- 2. IT IS NOT NECESSARY TO REMOVE THE PUMP HOUSING FROM THE MACHINE TO DISASSEMBLE THE PUMP.
- 3. Remove the pump motor and impeller adaptor by removing the 4 hex bolts attaching them to the pump housing.
- 4. Repair or replace the pump parts as required. Reassemble in reverse of disassembly.

**Immersion Heater Replacement** 

- 1. The immersion heater MUST be completely submerged at all times. If this is not the case contact a qualified service technician. The heated surface should never be in contact with sludge. See dwg. SK-4703
- 2. Remove the housing covering the wiring terminations. Disconnect the immersion heater wires.
- 3. Remove the immersion heater by loosening and removing the large hex nut.
- Install in reverse of removal.

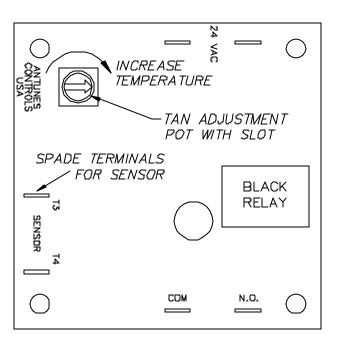


Use plumbers putty as gasketing around the immersion heater to insure no leaks.



Tank Heat Temperature Adjustment

- A temperature control board is provided in the control panel for easy adjustment of tank temperature. Though tank temperature is adjusted during the machines factory test it is sometimes necessary to re-adjust the temperature at startup.
- Locate the temperature control board (P/N DE9-251). Use the control panel layout drawing located in Part 5, Electrical Schematic and Replacement Parts.
- 3. Adjust the tank temperature to the desired temperature by turning the potentiometer located on the temperature control board. An arrow on the potentiometer indicates increase.



TANK TEMPERATURE CONTROL BOARD (DE9-251)

Troubleshooting Tank Temperatures Electric Heat

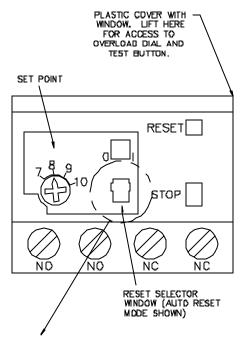
- 1. If temperature cannot be adjusted, check the temperature control board P/N DE9-251 proper operation. If the temperature control board is faulty, replace.
- 2. Verify tank heat contactor is working correctly. If not, replace. Verify all immersion heaters are working properly and not limed. If not, replace.

#### Steam Heat

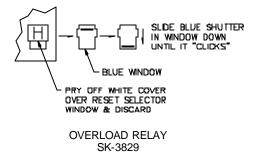
- 1. If temperature cannot be adjusted, check the temperature control board P/N DE9-251 proper operation. If the temperature control board is faulty, replace.
- 2. Verify steam pressure per machine specifications.
- 3. Verify steam trap is not clogged. If so, replace.

#### Motor Overloads

- All motors used on Insinger Machines are provided with motor overloads. Motor overloads are adjusted when the machines are factory tested. Should it be necessary to adjust the motor overloads in the field first verify the motor current draw for the voltage the machine is using.
- 2. Using the Control Panel Component Layout Dwg. located in Part 5 to identify the overload adjust by turning the dial to the appropriate AMP draw.



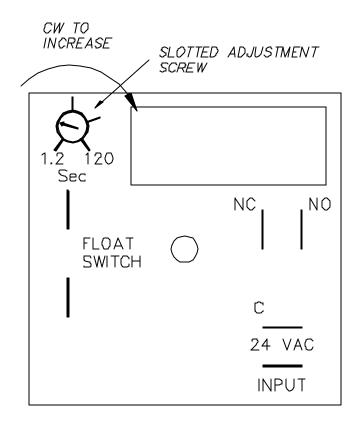
TO CHANGE FROM MANUAL TO AUTO RESET:





Level System

- 1. The level control system consists of a level board (P/N DE7-35) for both the wash and rinse tank and a level float (P/N DE5-60) per tank.
- 2. The level float will not allow the tank heat to energize without water in the tank.



LIQUID LEVEL TIMER DE7-35 SKETCHA\SK-4698

### CAUTION:

Should the tank heat energize without water in the tank, troubleshoot the system to find the problem. Check the floats.



#### WARNING:

Dirty level floats will cause the tank heat to energize with no water in the tanks. LEVEL FLOATS MUST BE CLEANED DAILY. **Final Rinse Actuator** 

- 1. The final rinse is actuated by the photo-eye emitter and receiver located at the entrance to the machine. See dwg. 1100-265.
- When the beam is broken by a plate, etc., the final rinse time is energized turning on the final rinse solenoid and allowing the water to flow. After one minute the timer will de-energize turning the solenoid off. The energy saver timer (P/N DE7-28) is reset to 0 at the same time the final rinse timer is energized. The energy saver timer is adjustable between 0-300 SEC.

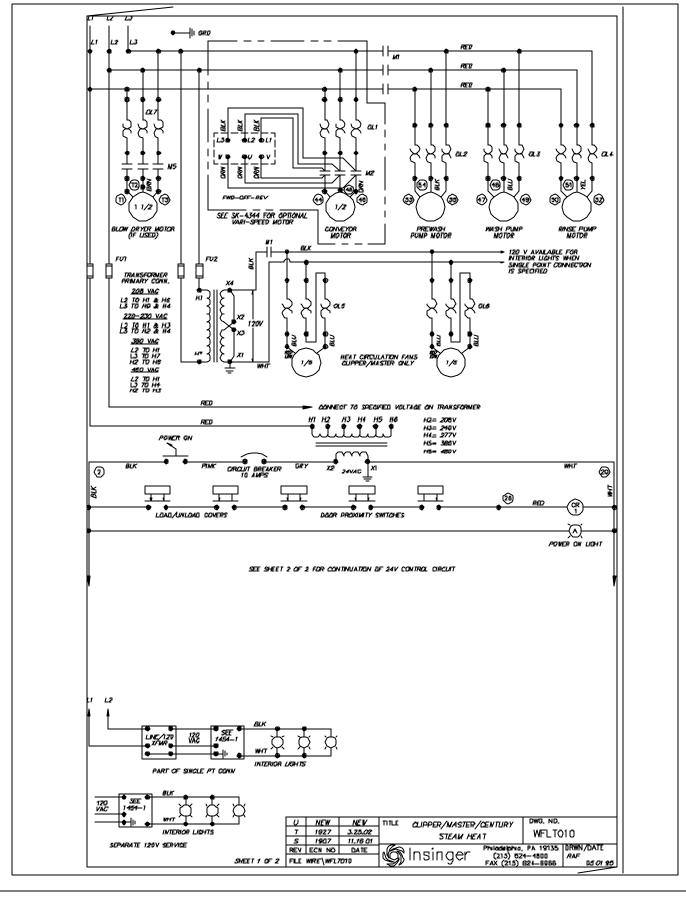
#### Conveyor Belt Adjustment

 The conveyor belt tension is adjustable by locating two adjustment bolts on the load side of the machine. The bolts can be moved in and out of the conveyor follower shaft therefore adjusting the belt tension.

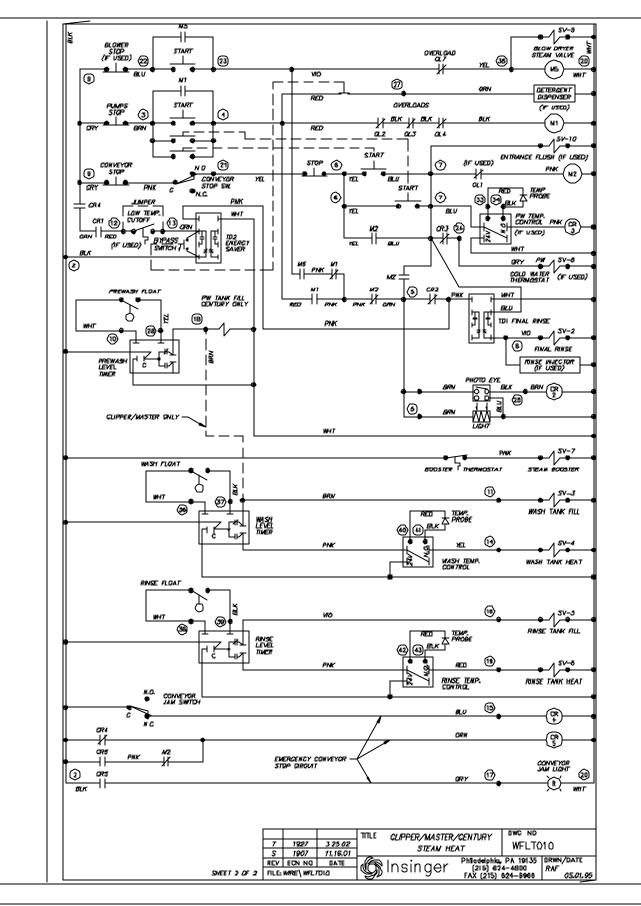
Conveyor Overload Shut-off Mechanism Adjustment (P/N 1100-289)

 A clutchless overload is used to shut the machine completely down should a jam occur in the conveyor system. The jam may be caused by ware being caught, bent tracks or misalignment of the conveyor belt.



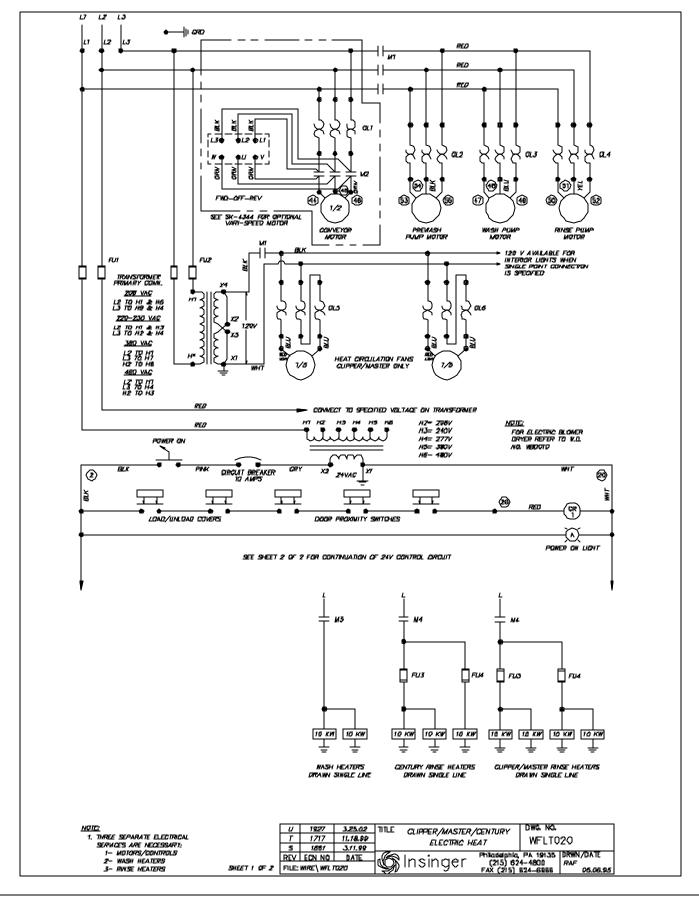




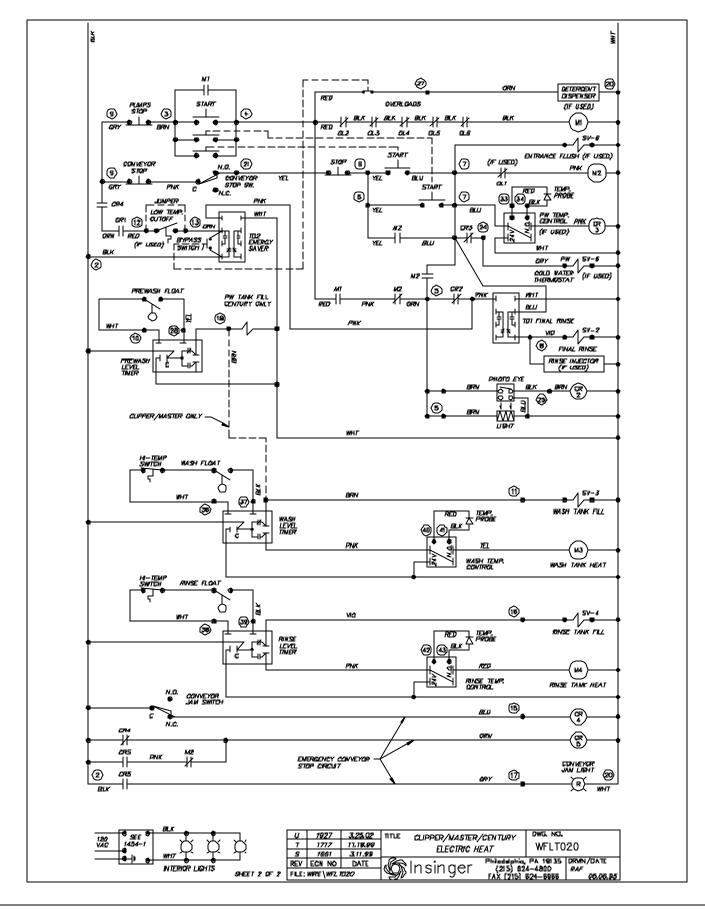




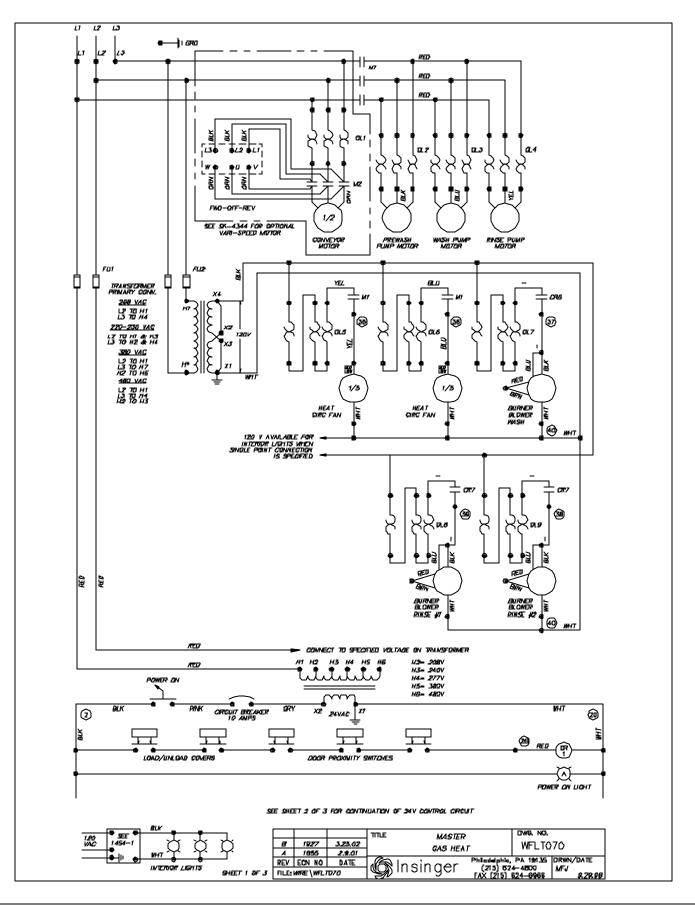




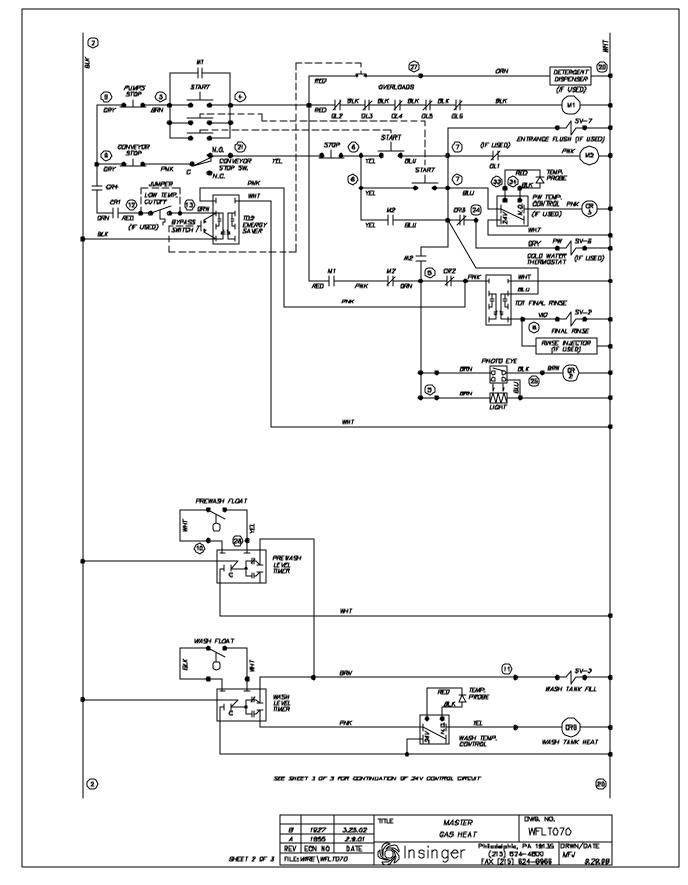




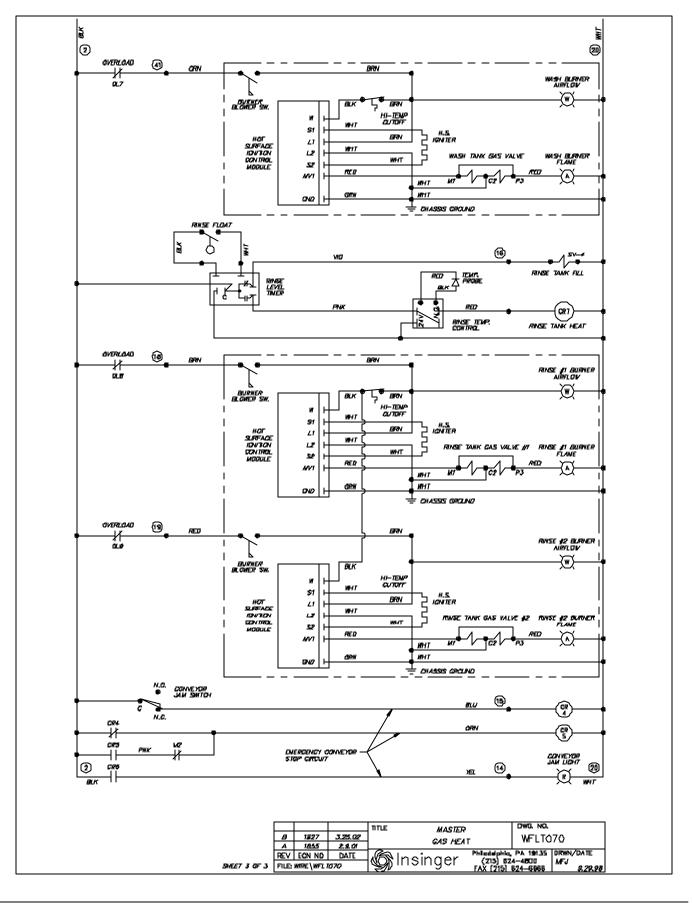




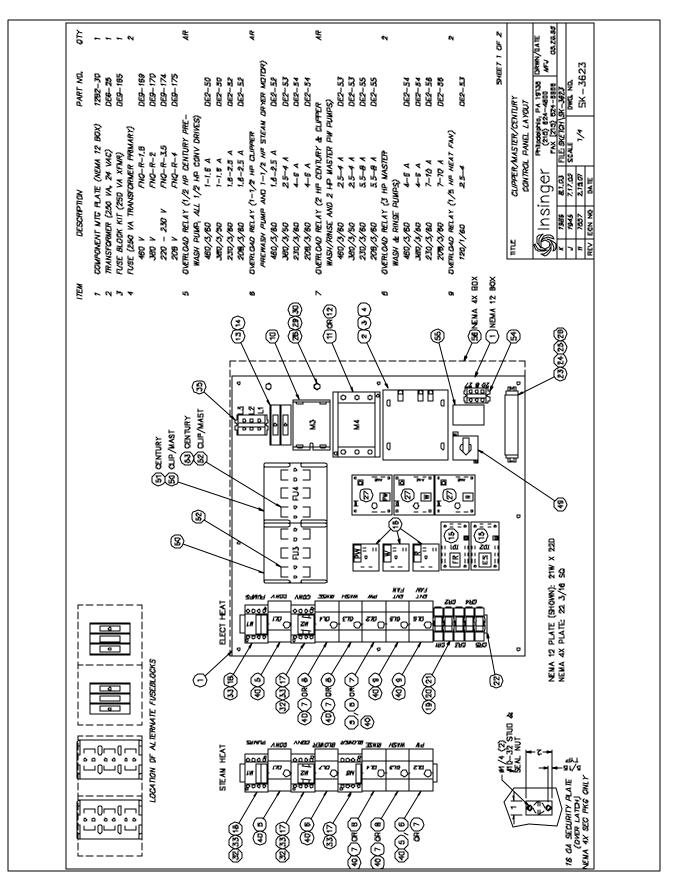








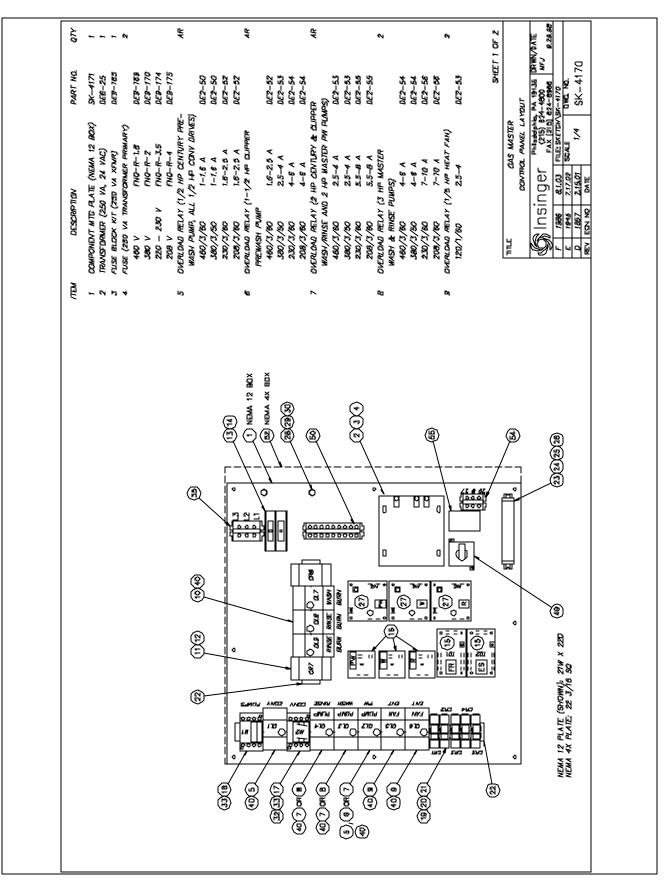






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PAR	0E8-&1	DE2-&0	0E8-64	DE8-65	1442-32	1442-32	9009	212.0		51/E-XS	0E8-20		0E9-186	DE8-212	0E9-21.J		DE9-186	UE\$-212	Į	0F8-746		012-63-510 010 000	463-211	0E3-104	0F9-195	DE9-189	DE9-209	0E3-9	34-3451	X 5K-4445	~					/0/ EN3//	עריבויעע IVA		Philadelphia, PA 18135 (213) 624-4500	zi 5) 624-09( 7/4/6/2_769	ON OND NO	
DESCRIPTION	Pilot Light ASSY - Red	OVERLOAD BASE	PUSHBUTTON ASSY, START	PUSHBUTTON ASSY, STOP	CONTROL BOX, NEWA 12	CONTROL BOX COVER, NEWA 12	G45KET. NEVA 12 BDX	NUT NEMA 12 BOX	DECAL	DATA DECAL	Switch (fwd - Off - REV)		460 V	JAD & 230 V	202 V	רעבבורמבא (נכואנתאא מארא)	460, J80, & 230 V					21-577 / 1777	ZCHE V FICE VENTREY JMI V	450 / KEK-K-15				RLOCK ASSY	CAUTION LABEL	COUPDNENT MTG PLATE, NEMA 4X BOX	CONTROL BOX (24 X 24 X B), NEMA 4X		AR						Mainsinger 24		< >	2.15.01
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PART ND		DE1-\$3	DE1-56AE	DE1-55AE	DE2-37	DE2-38	DE3-43	DE9-215	DEJ-42	05-530	DE3-40	DE3-41	DE9-251	D309C-CC-4C	031-35160	משבר-מכ-2	DE8-59		DET-62AE	UEB-1065		11414-1213 1110 - 211	LEB-DU DFA-R7										HEATER (10 KW)				FOR HEAT FANS		LA DNI A	FUSHBUTTON 574	P	
r DESCRUPTION	(ELINITE)		CUP & MAST (JBO - 460 V) SP17	CLIP & NAST (2019 - 230 V) SP27	RELAY BASE	RELAY	RELAY HOLD DOWN SPRING	DIN RAIL (35 mm)	DIN RAIL (13 mm)	TERUNAL SECTION	Terunal end cover plate	TERMINAL END CLANP	TEMPERATURE CONTROL BOARD	CRUUNDING STUD	LOCKWASHER 1/4	HEX NUT, 1/4-20	CONTACT BLOCK, NO	`			-		בתאו אבין אבריכא, אכ או מד ו ופאד 4557 – אבו מוא						J.S.			NOT SHOWN	ELECTRIC IMMERSION HEATER (10 KW)	440-480 V, 3 PH			TRANSFORMER (DPY) FOR HEAT FANS		LATINO A OBE & BOZJ VA DOUL	RENGIE START/STOP PUSHBUTTON STA	TEMPERATURE SEVEN	
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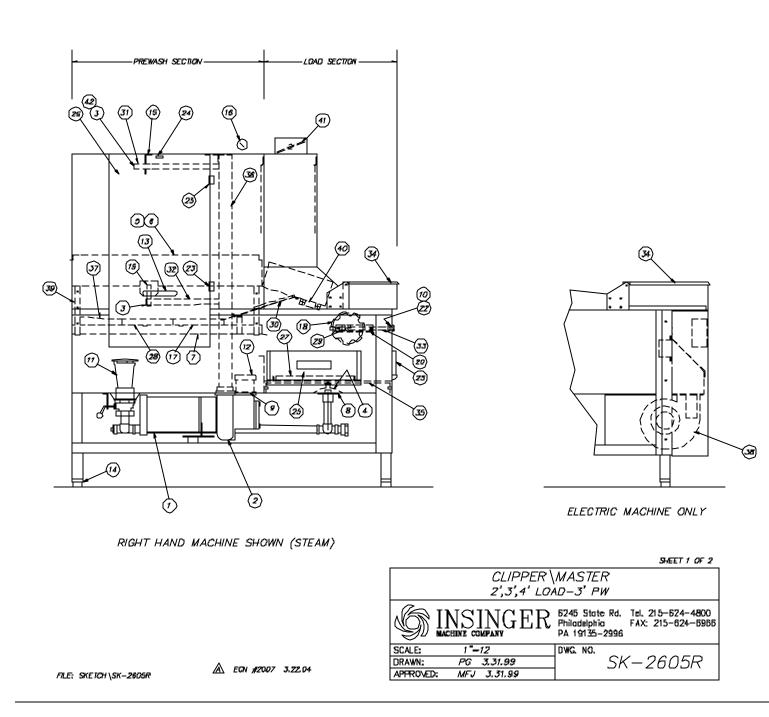
FAFT ND	063-40	DEJ-41	UE9-251 0-2000 01			1013-42		UE1-01/4E	01-1-10E	0E3-J	BS-830	09-830	19-63 19-63	10-0-01	0EB-64	068-65	142-32	142-32	8007-001	0.3120-6F	SK-3799	51-3715	95-830 95-830	902-159 1020	UE9-248		0-£30	1240-X5			SHE			0 12 18 18 18 19 19 19 19	B968-1	-#1/0	SK-417
ND1L-11253D	TERMINAL END COVER PLATE	TERMINAL END CLAMP	IENPERATURE CUNIMILE BOARD						NAV VAVIAN NU NAVINT ROLAKER (104)	TERMINAL BLOCK ASSY	~		PLOT LIGHT ASSY - YELLOW	מועבסו אמט מאמב מועבסו אמט מאמב	PUSHEUTTON ASSY START	PUSHBUTTON ASSY, STOP	CONTROL BOX, NEMA 12	CONTROL BOX COVER, NEWA 12	gasket, nena 12 Box	NUT, NEMA 12 BRX	DECAL	DATA DECAL	SWTCH (FWD - CAF - REV)	IERMINAL BLOCK ASSY Sector: Boy /24 / 24 / 21 MENA //	CAN INVLEDIX (24 X 24 X BJ, NEMA 4X COMPONENT NTC PLATE. NEMA 4X PDX		TETMINAL BLOCK ASSY	CAN IKIN TARFT		M	3 •7	E GAS MASTER	CON 7F	/ 100 INSINGER Printed to 19136		F 1846 717 02	E 1372 7.17.122 174 BFV FGN ND RATE
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DESCAPTION	CONTACTOR (CONV & DRYER BLOWER)SP4	PUMPS)		/14/2 (/ 02/2 - 02/2) /23// 1/ 4/1/3	6-11 PL MASI (200 - 210 V) 3-2/ PFI 47 PASE			DAL POLL LUMIN SPACE	DIN RAL (35 mm)	TERMINAL SECTION																	(Sale)	J		NDT SHOWN		PLOT LIGHT, ANBER	DECAL CAS BURNER LIGHTS	קזאובן אבוויפארידיבעווגאו זיזמיט עם	1200 NY (2018 N ONT)	REMOTE START/STOP PUSHBUTTON STA	TEMPERA TURE SENSOR
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DESCRIPTION	LAY (BUR	120/1/80 .63-1 A	MELAY 95:12:0105	HELAT BASE FLICE PLOCY 9 ROLE (VEND REALLED)	FUSE DELIGA, Z FOLE (XTMIT FTUMATI) FUSE (15:00 VA TRANSFORMER FRUIVARY)					ERGY SAIVER	נואבע להומרווס ובאבר)												E NEMA 13		- ` (	R R			المرامل	) ] ] [ ] ]					38) 31) (+2) (+3)	)	
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RECOMMENDED M	ASTER/CLIF	PPER SPARE PARTS LIST
Part Number	Quantity	Description
Mechanical Parts		
D2-554-1	4	End Plug 1/2"
D2-554-2	4	End Plug, 3/4"
D2-541	2	Suction Strainer
D2099	1	Handle, Door
D2349	1	Latch, Spray Pipe
D2-522S	1	Curtain
D2286	3	Spray Nozzle, FR
D2701	3	Spray Nozzle, FR
D2390	2	Temperature Gauge
954-50	1	Drain Assembly
D2-594	1	O-ring, Manifold
RC15-226	6	Section Link, Belt
D582	6	Roller, Belt
D2160	12	Cotter Pin, Belt
SK1115	24	Split Rivet, Belt
D2930RK	1	Solenoid Valve Repair Kit, 1/2"
D2242	1	Vacuum Breaker Repair Kit, 1/2"
Electrical Components		
DE7-28	1	Timer
DE7-35	1	Timer, Level
DE5-60	1	Level Float
DE9-251	1	Temperature Control Board
DE5-37	2	Magnetic Switch
DE5-4	1	MicroSwitch
For Steam Tank Heat Add:		
1 Each Solenoid Valve Repair Kits	S:	
D2947RK	1	
D2946RK	3/4"	
D2475	1 1/4"	
For Electric Heat Add:		
DE13-Sfy3		Immersion Heater y = Specify Voltage
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1 ITEL			ДА	RT NO.					1
	STANI	DARD WIDTH	-79		31" WCE		PART NAME	REO'D	
	510 height	∓ tX til0ti	6" EX 1/1011	STD HEIRHT	> EX fillion	6 EX 11911			
2	- D-2471	- D-2471	- D-2471	- D-2471	- G2471	- D-2471	Notor (As specified) PLWP	1	-
3	D2-654-2	D2-664-2	02- <b>55</b> 1-2	02- <b>551</b> -2	02-554-2	02-554-2	END PLUG	त 7	570 MDTH 31° WDE
4	D-106	D-108	D-108	D-108	0-106	0-106	DRAIN STRAINER	1	
5	1113-45	111 <b>3-40</b>	1113-45	111 <b>3- 45</b>	1113-40	111 <b>3-4</b> 6	TRACK-UPPER FRONT	1	
8	1113-46	1113-46	1113-45	1113-40	1113-45	1115-45	TRACK-UPPER REAR	1	
7	1113-30	1113-30	1113-30	1113-30	1113-30	1113-30	TRACK-LONER	2	2 1040
í -	1109-95	1109-199	1109-99	1103-99	1103-99	1145-85		2	5 1040
	1113-29	1113-29	1113-29	1115-29	1115-28	1113-29	TRACK-LONER	2	4° LO4/2
8	D-6/4 D-930	D-514 D-530	D-514 D-330	0-5/4 D-330	D-514 D-330	D-514 D-330	GASKET GASKET	1	1
16	D-685	D-085	D-385	D-385	0-385	0-085	TO" RING-ADJ SCREW	2	-
11	954-1	954-1	954-1	954-1	<b>954</b> -1	954-1	DRAIN ASS'Y (SEE PARTS LIST)	1	1
1Z	DZ-541	DZ-541	DZ-941	DZ941	DZ <b>34</b> 7	DZ-341	SUCTION STRAINET	7	
15	RC/5-20 RC/5-21	RC15-20 RC15-21	RC15-20 RC15-21	AC15-20 AC15-21	RC15-20 RC15-21	RC15-20 RC15-21	door handle & rod	7	
14	D-2248	D-2248	D-2248	D-2248	D-2248	D-2248	Admistable FOOT	4	1
10	D-2545	D-2549	D-2549	D-2349	D-2348	D-2349	SPRAY PIPE LATCH	1	1
16	D-2393	D-2392	D-2380	D-2380	D-23M	D-2390	THERN OME TER	1	]
17	1105-63	1105-93	1105-03	1426-30	1426-30	1426-30	SCRAP SCREEN	4	]
8	D2-138	DZ-130	DZ-138	02-138	02-138	02-138	BELT SPROCKET	2	
19	1100-73	1100-73	1100-73	1428-105	1426-105	1428-105	oradle-spray pipes	1	1
20 21	1100-147 -	1100-147 -	1100-147 -	1100-147 -	1100-147 -	1180-147 -	Channel for Shaft -	2	4
22	D2-836	DZ-819	02-839	02-839	02-839	02-839	OOLLAR- ADJ. SCREW	2	1
23	D-2715	D- 2715	D-2715	D-2715	D-2715	D-2715	Door Lator	1	1
24	DE3-37	DE5-37	DE <b>S-</b> 37	DE <b>5-</b> J7	DE5-37	DE 3- 37	NAGNET\SWITCH	1	
25	1700-\$4	1100-94	1100-94	1100-94	1100-94	1100-94	000R-1.040 SECT.	2	STEAN NACH. ELECT. NACH.
26	1100-20	1442-33	1442-33	1100-28	1442-35	1442-35	DOOR-P.W.	1	
								2	Z 1040
27	1100-37	1100-37	1100–17	1428-28	1426-28	1426-28	SCRAP SCREEN	3	3 LOAD 4 LOAD
28	1100-61	1100-61	1100-81	1426-26	1426-28	1426-26	SORAP SCREEN	-	
29	1100-148	1100-146	1100-146	1428-60	1426-60	1426-80	CONVEYER SHAFT	1	
¥۵	<i>1100-</i> 195	1100-196	1100-195	14 <b>65</b> –19R	1465-19R	1465-197	BAFFLE-LOAD\PW	1	R.H. MACH
	1105-102	1105-102	1105-102	1428-91	1428-91	1428-91			L.H. MACH
.31	1100–357A	1100-3574	1100-3574	1100–3578	1100-3578	1110-3579	NANIFOLD ASSY-UPPER	1	
32	1100-71	1100-71	1100-71	1420-40	1426-49	1425-49	NANIFOLD ASSY-LOWER	1	-
33	1100-148	1100-148	1100-148	1100-148	1100-148	1180-148	ADIUSTABLE SCREW	2	
#	1100-134	1100-134	1100-134	1428-85	1428-85	1428-85	END REST	1	STEAM MACH
32	1 375-11 1100-38	1375-11 100-20	1375-11 1100-38	1420-70	1426-76	1420-70		1	LLECT. NADI.
32 36	17040-388 1773-43	1100-38 1113-43	1100-38 1113-43	1100-38 1113-43	1100-38 1113-43	1100-38 1113-43	SCRAP SCREEN SUPPORT	1	1
	1100-100	1100-100	1100-100	1420-20	1426-29	1420-20			I.T. MACH
57	1105-96	1105-176	1105-96	1426-92	1426-92	1425-92	TRAY SPACER	7	L.H. MACH
38	50508	50508	50508	50508	50508	50508	BLOWER, 120 VAC	2	
38	1700-90	7100-90	7100-50	74 <b>29-22</b>	1429-22	1420-22		Z	1
40	1100-55	1100-65	1100-65	1425-21	1426- <i>2</i> 1	1425-21	TRACK SUPPORT	1	1
	D2-728	D2-728	D2-728	D2-728	D2-728	D2-728	DANPER BLADE		1
11								1	

S SKETCH \SK-2605R

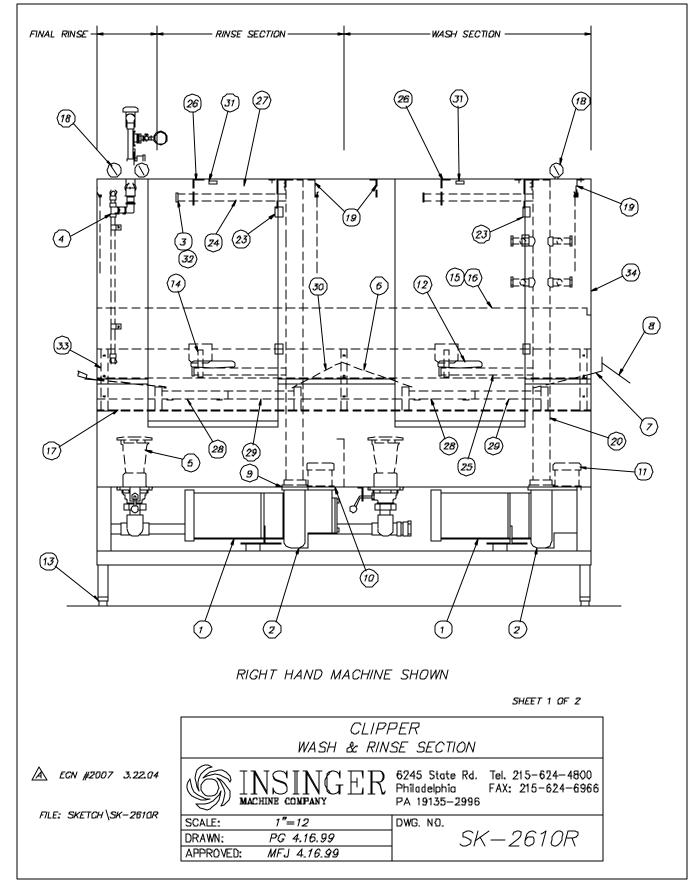
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NFJ 3.31.99

SK-2605R

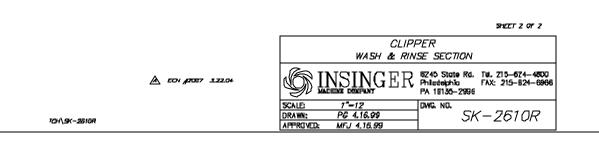
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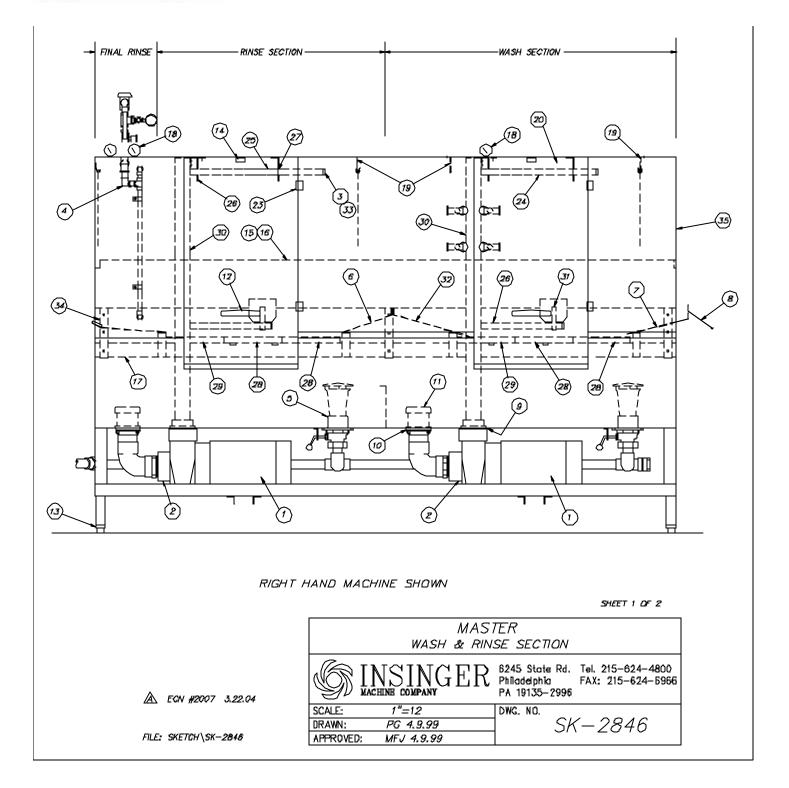


6	Insi	nger_
9)		

L			PA	rt NCI.					
ТЕИ	STAN	DARD WDTH			31 WIDE		PART NAME	ÆØD	
	std height	3" EX HIGH	EX HICH	std height	.3™ EX HIGH	e" ex high			
7	-	-	-	-	-	-	NOTOR (AS SPECIFIED)	z	
Z	D-2471	D-2471	0-2471	D-2471	D-2471	0-2477	FWF	Z	
5	D2-664-2	02-664-2	D2-664-2	<i>D2-664-2</i>	D2-554-2	02-584-2	END PLUG	12	
4	1100-330	1100-330	1100-330	1466-20	1465-20	1465-29	FINAL RINSE AGS'Y (BEE PARTS LIST)	1	
5	<b>#54</b> _1	<u>05</u> 4-1	<u>954</u> _1	954-1	<b>05</b> 4_1	<b>\$54</b> -1	DRAIN ASS'Y (SEE PARTS LIST)	2	
	<i>1100</i> -1 <b>93</b>	1100-183	1100-193	1409-105	1463-168	1400-1017	BAFFLE-CENTER	,	fi.H. MACH
-	<i>1113</i> -33	1113-55	1113-33	1460-22	1465-22	1466-22			L.Н. ИАСН.
,	<i>1100</i> -1 <b>9</b> 4	1100-194	1100-1 <del>9</del> 4	1466-18R	1465—18R	1485-18R	SAFTLE-WASH	7	R.H. MACH
<u> </u>	1113-34	1113-34	111.334	1485-24	1485-24	1485-24		•	L.H. МАСН.
8	1100-105	1100-145	1100-105	1428-34	14 <b>96</b> _34	1426-34	BAFFLE-AT SPLIT	+	R.H. NACH
-	7105-106	1105-106	1105-706	1426-30	1425-90	1 <b>426-9</b> 7		•	L.Н. ИАСН
9	D-6/4	D-614	D-014	D-014	D-014	D-014	GASKET	2	
10	D- <i>630</i>	D-530	0-530	LP 530	D-330	0530	GABKET	2	
<i>tt</i>	D2-541	D2-541	D2-541	DZ-541	D2-541	D2-541	SLICTION STRAINER	'n	
12	RC13-20 RC16-21	RC19-20 RC16-21	RC13-Z0 RC13-Z1	RC73-20 RC15-21	RC19-20 RC16-21	ftC13-20 RC13-21	DOOR HANDLE & ROO	2	
13	0-7748	<u>∏-3248</u>	<i>∐−2</i> 748	0-2248	Q-3345	G-2246		4	1
14	1100-75	1100-73	1100-73	1420-705	1426-105	1420-103	CRADLE-SPRAY PIPES	2	
15	7113-48	1113-48	1113-48	1113-46	111 <b>J-48</b>	1113-48	TRACK-UPPER FRONT	1	
16	711 <b>3-4</b> 9	1113-49	111.3-49	1113-4\$	1113 <b>-49</b>	1113-49	TRACK-UPPER REAR	1	
	1100-1885	1100-185	1100185	1100-165	1100-185	1100185			R.H. NACH
17	7113-28	1113-28	111 <b>3-28</b>	117 <b>3-20</b>	1113-28	1113-28	TRACK-LOWER	2	L.H. MACH.
8	D-2390	0-2390	0-2380	D-2390	0-2390	0-2390	THERMONETER	5	
9	1100-16R	1100–18R	1100-18R	1466-1 <b>3</b> R	1465—13R	1486-1 JR	BAFFLE-TOP	3	
žũ	711 <b>3</b> -414	1113-41B	1113-410	1 1/3-4/A	111 J-41B	1113-41C	DISCHARGE TUBE ASSTY	Ż	
27	-	-	_	-	-	_	-	-	1
22	-	-	_	-	-	_	-	-	
25	D-2715	D-2715	D-2715	D-2715	D-2715	D-2710	DOOR LATCH	4	
24	1100-359B	1100-3540	1100-355B	1100-3590	1100-3590	1100-3590	HANIFOLD ASSY UPPER	2	1
25	1100-71	1100-71	1100-71	1428-49	14.36-49	1426-49	NANIFOLD ASSY-LOWER	2	
26	D-2349	D-2349	D-2349	D-2349	D-2349	D-2340	SPRAY PIPE LATCH	2	
27	7100-28	1442-35	1442-30	1100-22	1442-35	1442-56	DOOR	7	1
28	1100-61	1100-81	1100-81	1428-28	1428-28	1428-28	SCRAF SCREEN	2	]
20	1104-73	1104-73	1104-73	1426-31	1428-31	1426-31	SCRAP SCREEN WINR DISCHARGE	2	1
_	7 <i>100-</i> 182	1100-19Z	1100-797	1453-175	1455-176	14 <b>65</b> –17 <del>1</del>		-	fi.tl. NAG4
50	1100-193	1100-193	1100-193	1463-162	1465-162	1465-162	BAFFLE-CENTER	7	L.Н. ИАСН.
31	DES-37	DED-37	DEG J7	DES-37	DED-37	DE0-57	NAGNET\SWITCH	2	
32	D.3-558-2	D <b>3-558-2</b>	D3-558-2	D3-558-2	173-558-2	03-556-2	END PLUG RETAINER	1 <del>2</del>	1
33	1100-50	1100-50	1100-50	14:26-21	14:26-21	1426-21	TRACK SUPPORT	3	1
_	1100-15	_	_	1428-41	-	1442-12	GASKET	2	1



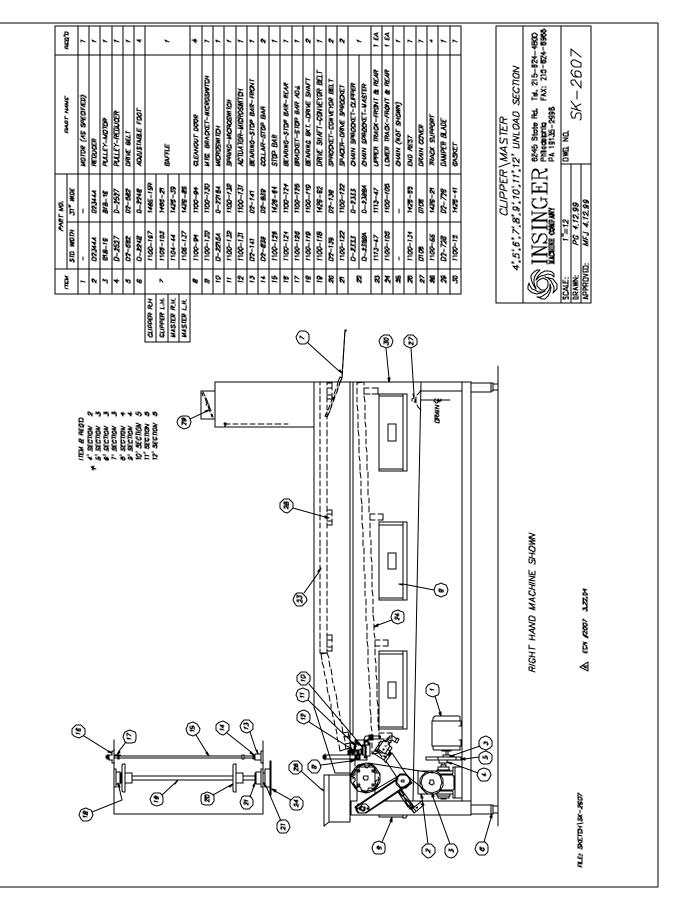




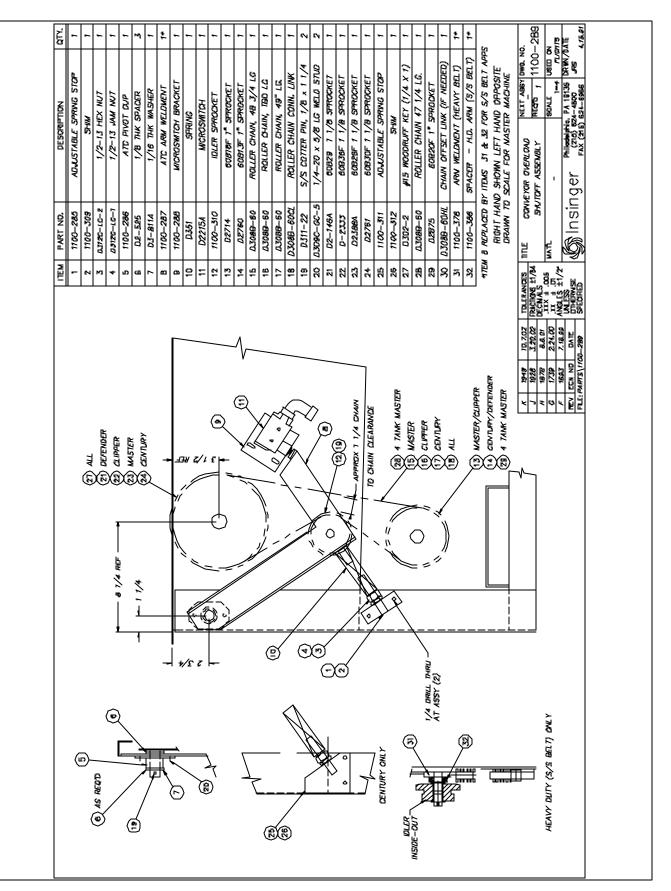


/TEM									٦
	PART NO.								
	STANDARD WIDTH			31 WIDE			PART NAME	REO D	
/	STD HEIGHT	3" EX HICH	6" EX HIGH	STD HEIGHT	3" EX HIGH	6" EX HIGH	Motor (as specified)	2	-
2	- D2-2603	- D2-2603	- D2-2603	- D2-2603	- D2-2603	- D2-2603	PUMP	2	-
									-
3	D2-554-Z	D2-554-Z	D2-554-2	D2-554-2	D2-554-Z	D2-554-2		14	-
4	1100-318	1100-318	1100–318	1100-318	1100-318	1100-318	FINAL RINSE ASS'Y (SEE PARTS LIST)	1	-
5	<b>95</b> 4-1	<b>954</b> —7	<b>954</b> —7	<b>954</b> -7	<b>954</b> -1	994-1	DRAIN ASS'Y (SEE PARTS LIST)	Ζ	
6	1104—71	1104-71	1104—71	1426-37	1426-37	142637	BAFFLE-CENTER	1	R.H. MACH
	1105–1 <b>38</b>	1105–1 <b>38</b>	1105—138	1426-87	1426-87	1426— <u>8</u> 7		-	L.Н. ИАСН
7	11 <b>04</b> —72	1104-72	7104—72	7 <i>42</i> 5– <i>3</i> 8	7 <i>42</i> 6–.38	7 <b>425—</b> .3B	BAFFLE-WASH	1	R.H. MACH
	1105—140	1105—140	1105—140	1426—89	1426-89	1426—89			L.Н. ИАСН
	1100–1 <i>95</i>	1100-195	1100-195	1426-34	1426-34	1426-34	BAFFLE-AT SPLIT	,	R.H. MACH
"	1105–126	1105–106	110 <b>5</b> —106	7 <i>426</i> —90	1426-90	1426—90		'	L.Н. ИАСН.
9	1104-67	1104-67	1104-67	1104-87	1104-67	1104—67	GASKET	2	
10	D-530	D-530	D-530	D-530	D-530	D-530	GASKET	2	
11	D2-541	D2-541	D2-541	02-541	D2-541	02-541	SUCTION STRAINER	2	
	RC15-20	RC15-20	RC15-20	RC15-20	RC15-20	RC15-20			-
12	RC15-21	RC15-21	RC15-21	RC15-21	RC15-21	RC15-21	DOOR HANDLE & ROD	2	
73	D-2248	D-2248	D-2248	D-2248	D-2248	D-2248	ADJUSTABLE FOOT	4	
14	DE5—37	DE5-37	DE5-37	DE5-37	DE5-37	DE5-37	MAONET/SWITCH	2	
15	1104-50	1104-50	1104-50	1104-50	1104-50	1104-50	TRACK-UPPER FRONT	1	
16	1104—51	1104-51	1104—51	110 <b>4</b> —51	1104-51	1104–51	TRACK-UPPER REAR	1	
47	1104– <b>39</b>	1104-39	1104-39	1104-39	1104-39	1104-39	TR 4 9% 1 P# 50		R.H. MACH
17 -	1105-135	1105–135	1105–135	1105–135	1105-135	1105-135	TRACK-LOWER	2	L.Н. ИАСН.
18	D-2390	D-2390	D-2390	0-2390	D-2390	D-2390	THERMOMETER	3	
19	1104-1 <i>0</i> R	1104-10R	7104-10R	7 <i>42<del>6</del>-3</i> 3	1426-33	1426-33	BAFFLE-TOP	3	
20	1100-28	1442-35	1442–3 <del>5</del>	1100-28	1442-35	1442-35	DOOR	2	-
21	-	-	-	-	-	-	_		
22									
22	 D-2715	– D–2715	- D-2715	 D-2715	– D–2715	– D–2715	- DOOR LATCH	4	-
23	1104-95A	1104-95A	1104-95A	1104-95C	1104-95C	1104-95C		4	
							MANIFOLD ASS'Y-UPPER-WASH	-	-
25	1104—96A	1104- <b>96</b> A	1104–96A	1104 <b>-98</b> C	1104-980	1104—96C	MANIFOLD ASS'Y-UPPER-RINSE	1	
26	1104-60	1104-60	1104-60	1426-47	1426-47	1426-47	MANIFOLD ASS'Y-LOWER	2	-
27	D-2349	D-2349	D-2349	D-Z349	D-2349	D-2349	SPRAY PIPE LATCH	Z	-
28	110061	110061	1100-81	1426–28	1426-28	1426-28	SCRAP SCREEN	4	_
29	1104-73	1104-73	1104-73	1426-31	1426-31	1426—31	SCRAP SCREEN WAR DISCHARCE	2	
.30	1104—64A	1104—64B	7104—54C	7104— <b>5</b> 4A	1104—64B	1104—54C	DISCHARGE TUBE ASS"Y	2	
31	1100-73	1100-73	1100-73	1 <i>426</i> —105	1426-105	1426—105	CRADLE-SPRAY PIPES	2	
32	1104-45	1104-45	1104-45	1426-40	1426-40	1426—40			R.H. MACH
- T	1105–139	1105–139	7105–139	7 <i>426</i> 88	1426-88	1426-8B	BAFFLE-CENTER	1	L.Н. ИАСН
33	D3-558-2	D3-558-2	D3-558-2	D3-558-2	D3-558-2	D3-558-2	END PLUG RETAINER	14	
34	1100-50	1100-50	1100-50	1426-21	1426-21	1426-21	TRACK SUPPORT		-
	1100-15					1429-21	$I\pi ALA SUPPORT$	3	

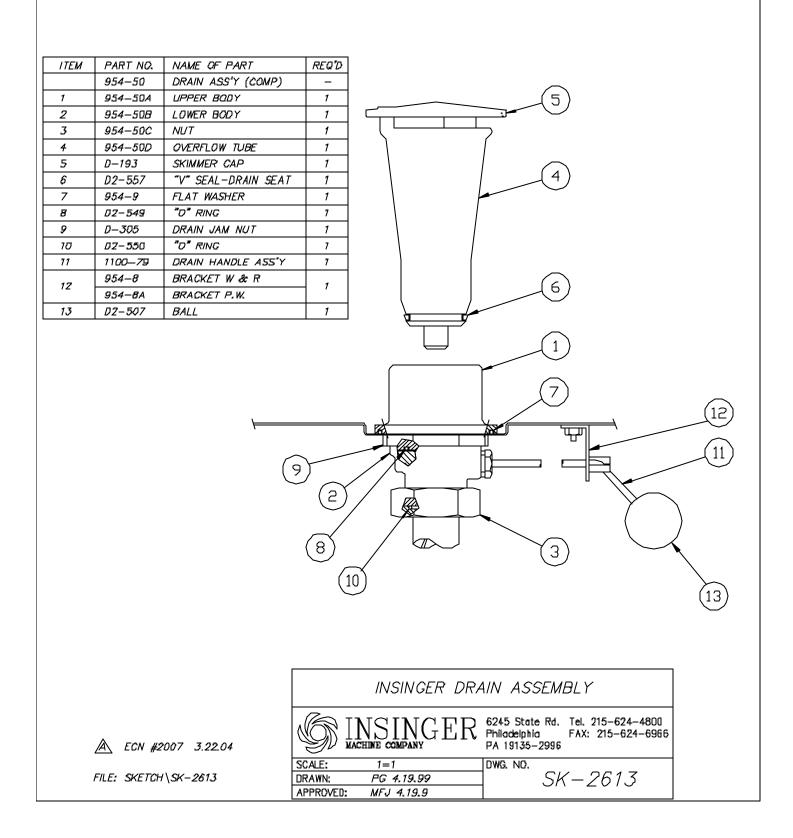










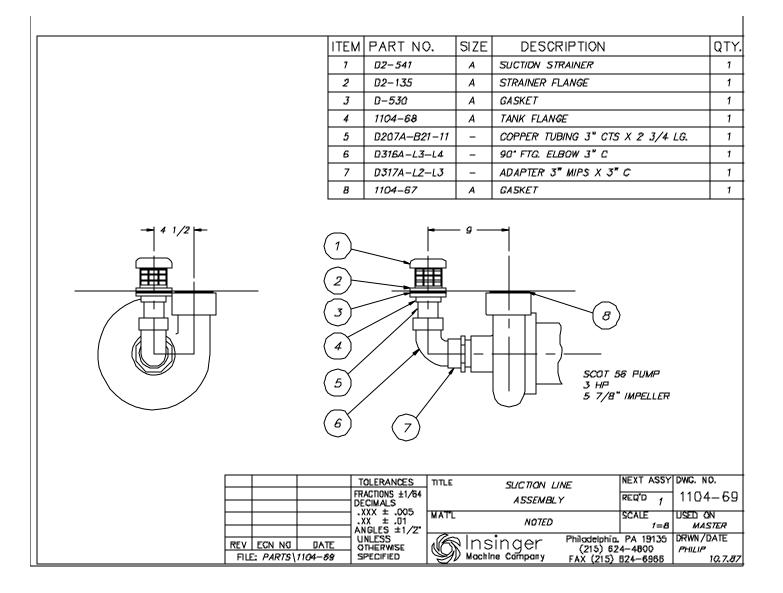


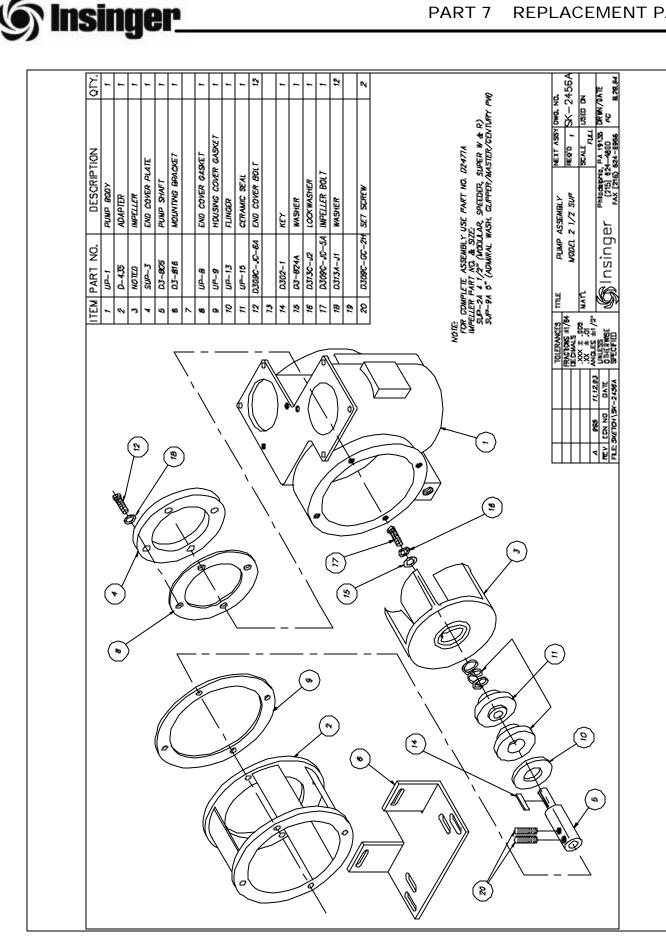




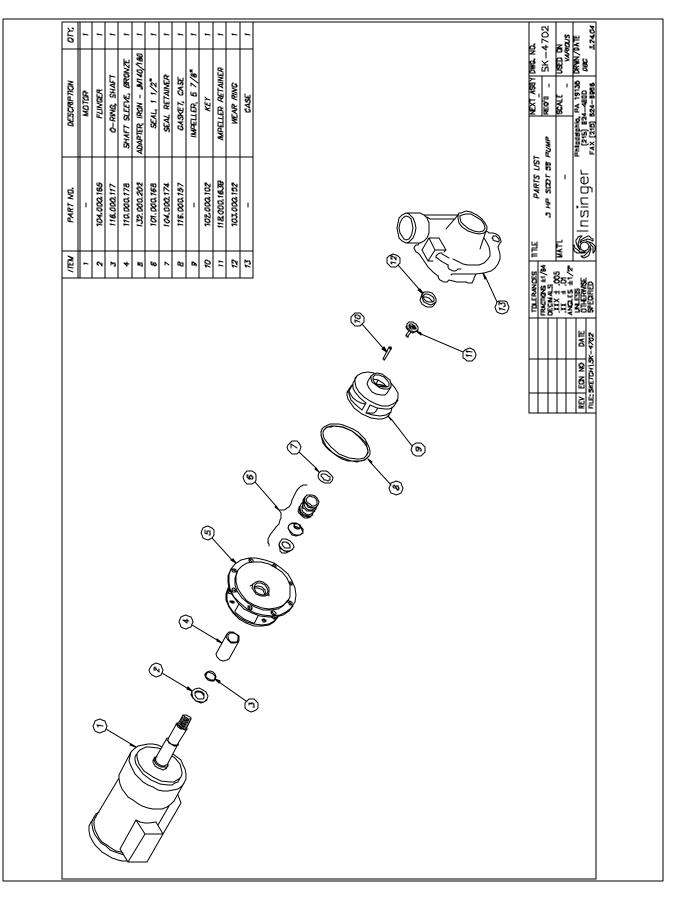
						-
			ITEM	PART NO.	DESCRIPTION	QTY.
		5	1	954–50A	UPPER VALVE BODY	1
			2	954—50B	LOWER VALVE BODY	1
		$\left( \right)$	3	954—50C	C-RING NUT	7
		(4)	4	954— <i>50D</i>	OVERFLOW TUBE	1
	<b>_</b>		5	1370—3	SKIMMER CAP (MODIFIED)	1
	7		6	D2-557	°V <sup>≫</sup> SEAL	1
		_	7	954-9	SEALING WASHER	1
		6	8	D2-549	0 RING	1
			9	D2-550	O RING	2
			10	1370—5	SKIMMER CAP TAB	1
			11	1370–11	PLUG	1
		(7)	1Z	D31&A-H3-H1	90° ELL 1-1/2 C x 1-1/2 FPT	1
	```		13	<i>1370</i> —6	UPPER BRACKET	
ITEM 19 LIFT RODS			14	1 <i>370</i> —7	LOWER BRACKET	1
1370—16 PREWASH	(23)	(11)	15	D-207A-B12-17	CU TUBE, 1-1/2 CTS x 4-1/4 LG	÷ 1
1370–17 WASH 1370–18 RINSE	2)/		16	D2738	SPRING PLUNGER	1
			17	1370—30	LIFT HANDLE	1
		(15) (3)	18	D311-8	ROLL PIN, 1/8 DIA	2
	(9)		19	SEE TABLE	LIFT ROD	1
			20	D27 <b>39</b>	CLAMP CQLLAR, 1/4 DIA	1
		(12)	21	SK 3476	DECAL	1
		U	22	1370–19	INSTALLATION NOTES	X
			23	D305A	DRAIN JAM NUT	1
		TOLERANCES	TITLE	DRAIN ASSY -	SELE CLOSING NEXT ASSY DWG. NO.	•
		FRACTIONS ±1/64 DECIMALS		MASTER SI		-20
	C    1989    7.7.03      B    1268    09.22.95	.XXX ± .005 .XX ± .01	MATL	NO	TED SCALE USED ON	
	A 1051 8.18.94	ANGLES ±1/2	1a	- 1 4		
	REV ECN NO DATE FILE: PARTS\1370-20	SPECIFIED	Ø	INSINGEI Machine Compon	(215) 624–4800 MFJ	.16.92
			2			.10.32



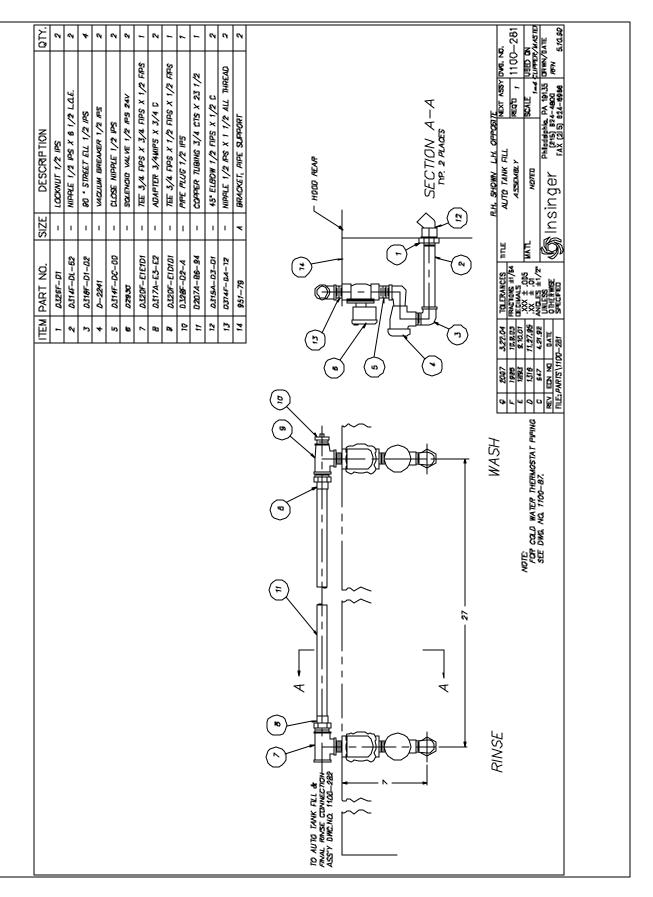






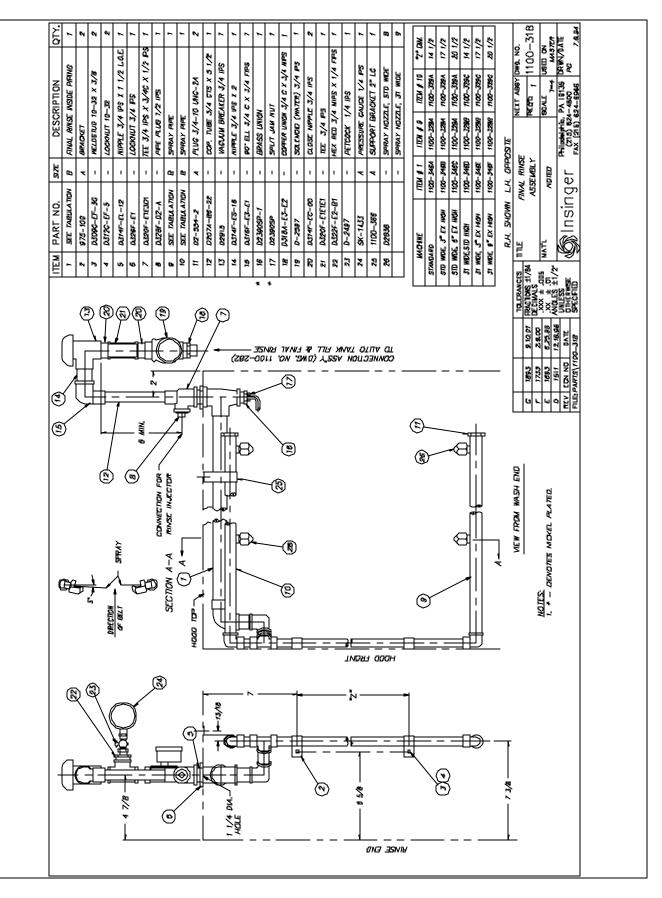




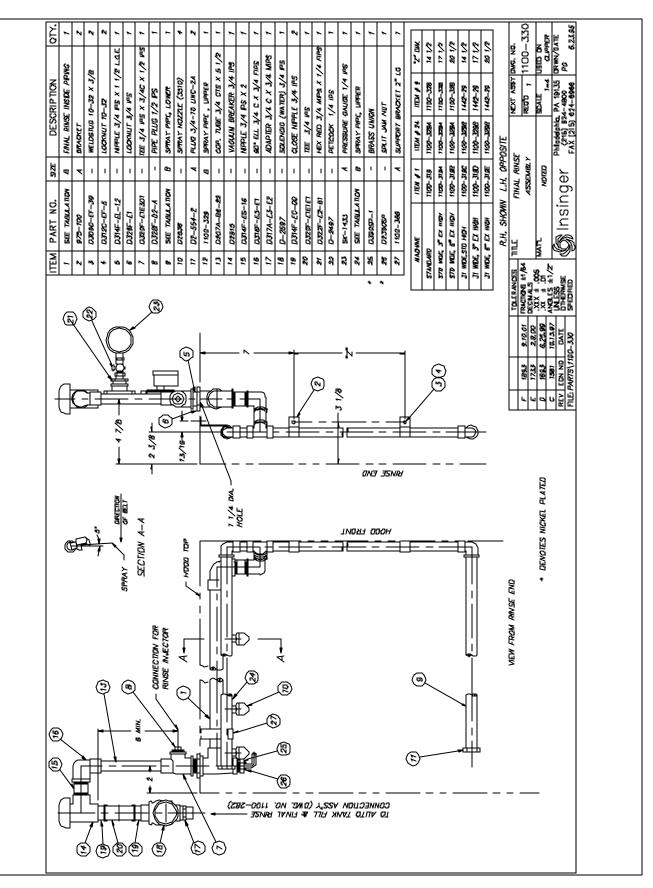




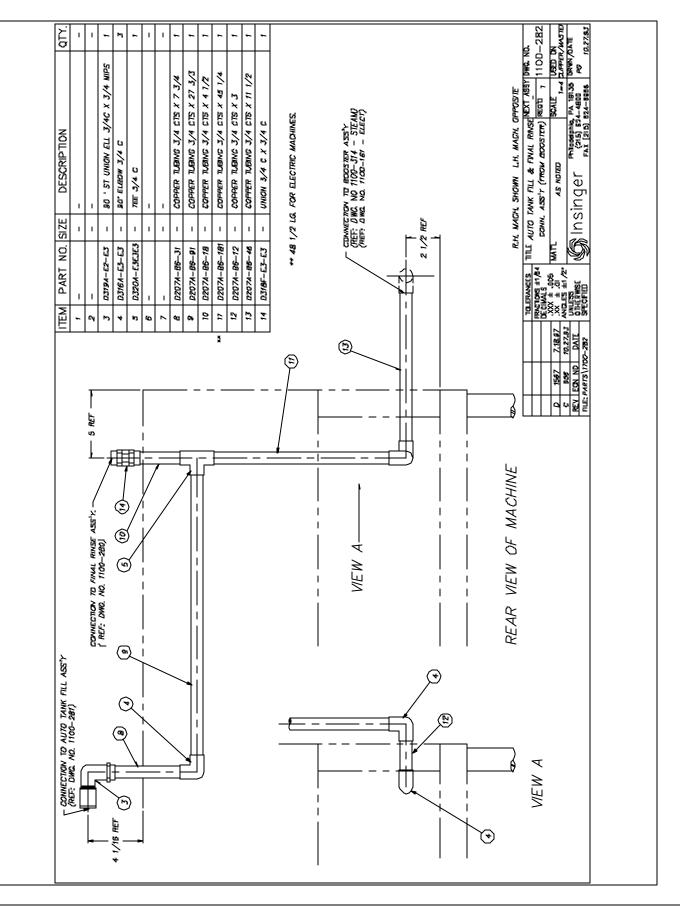




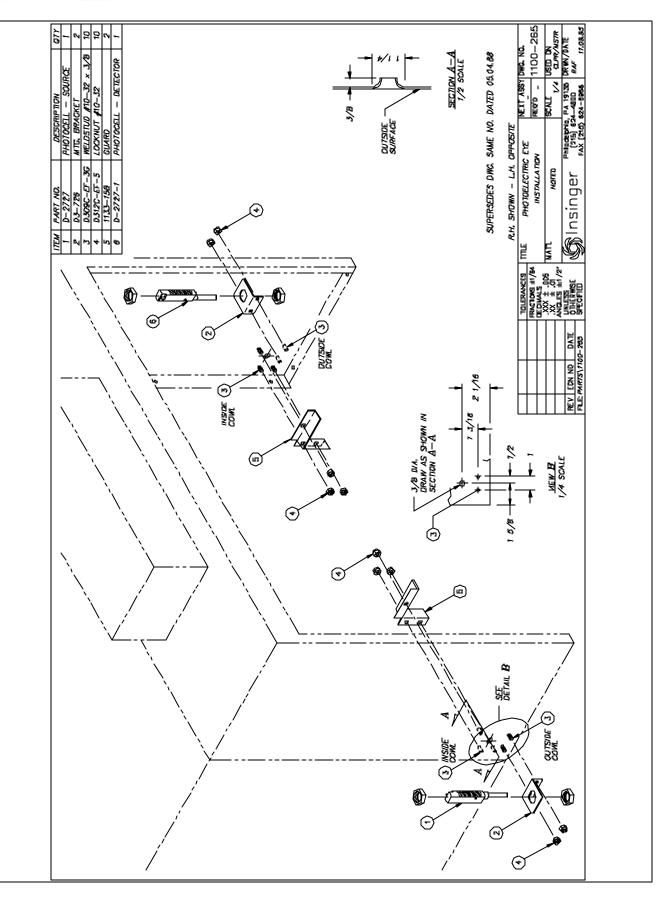




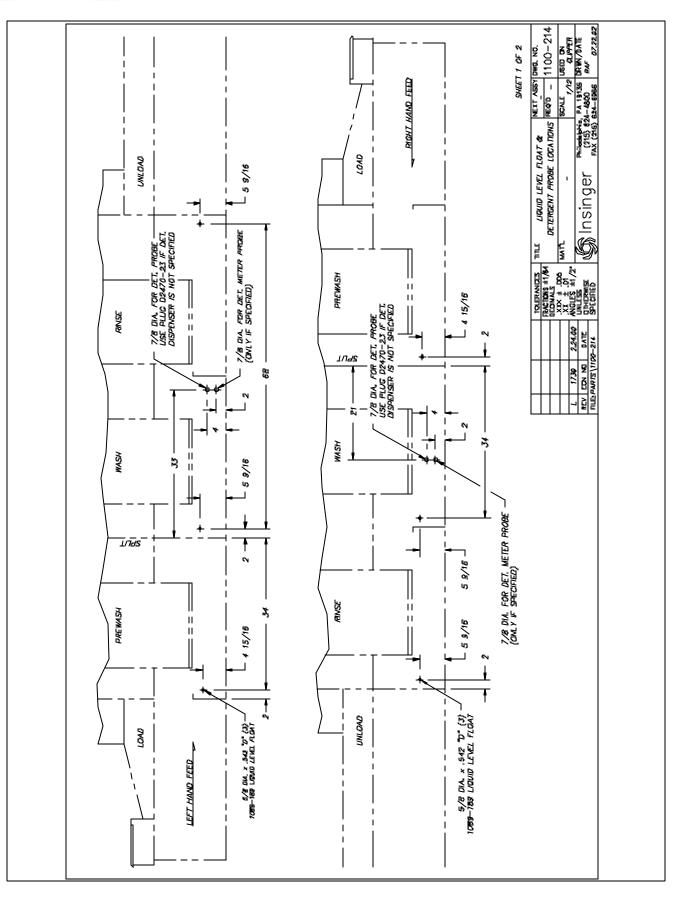




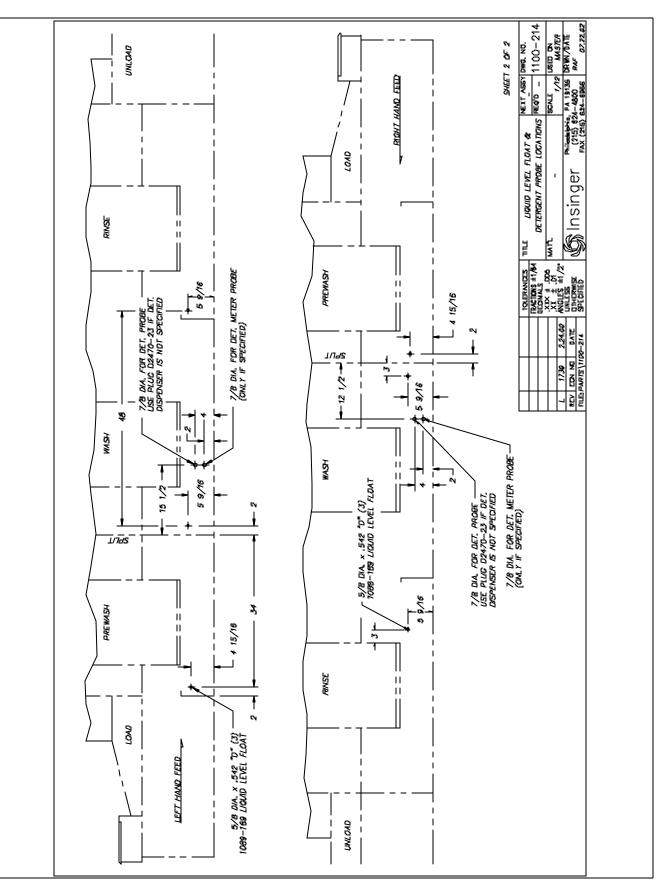




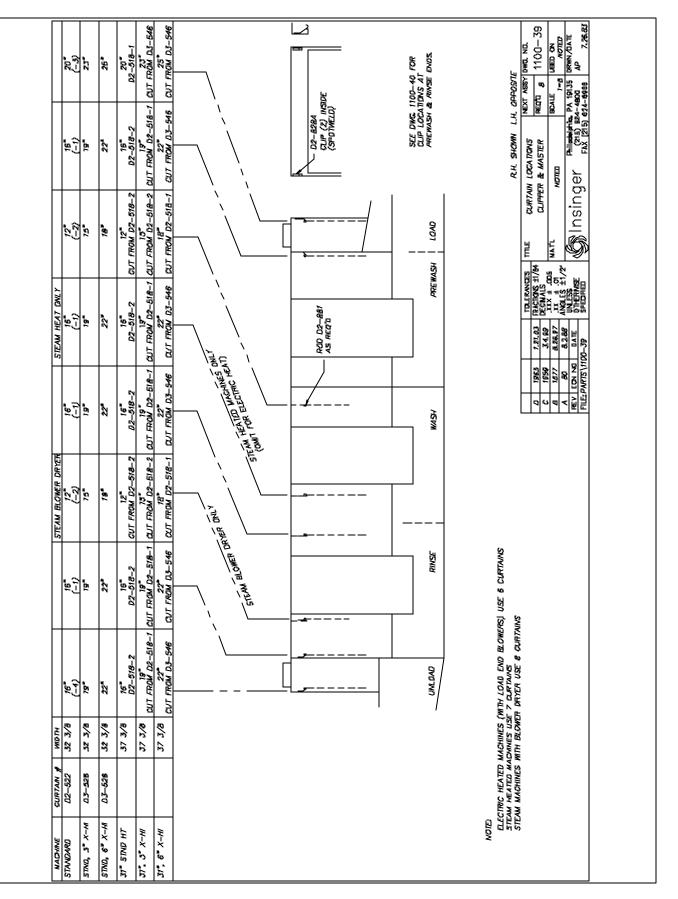




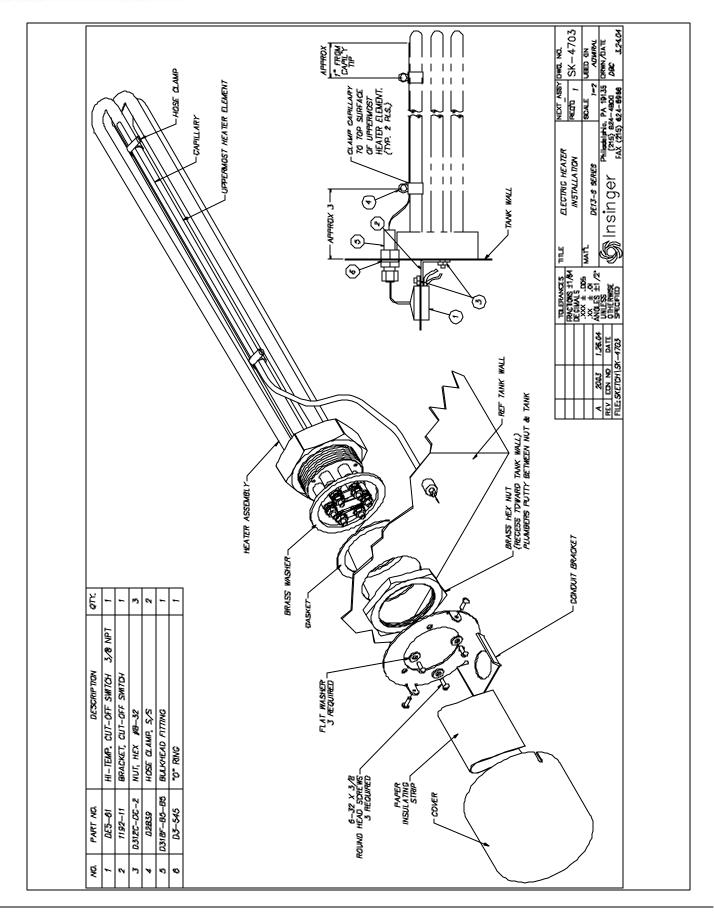


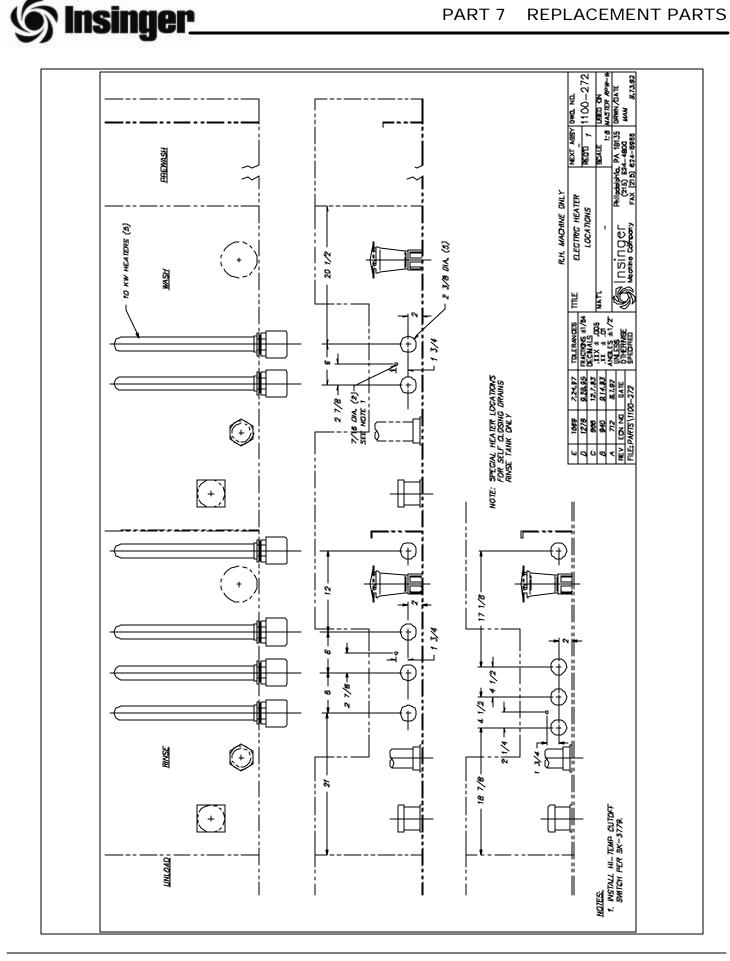




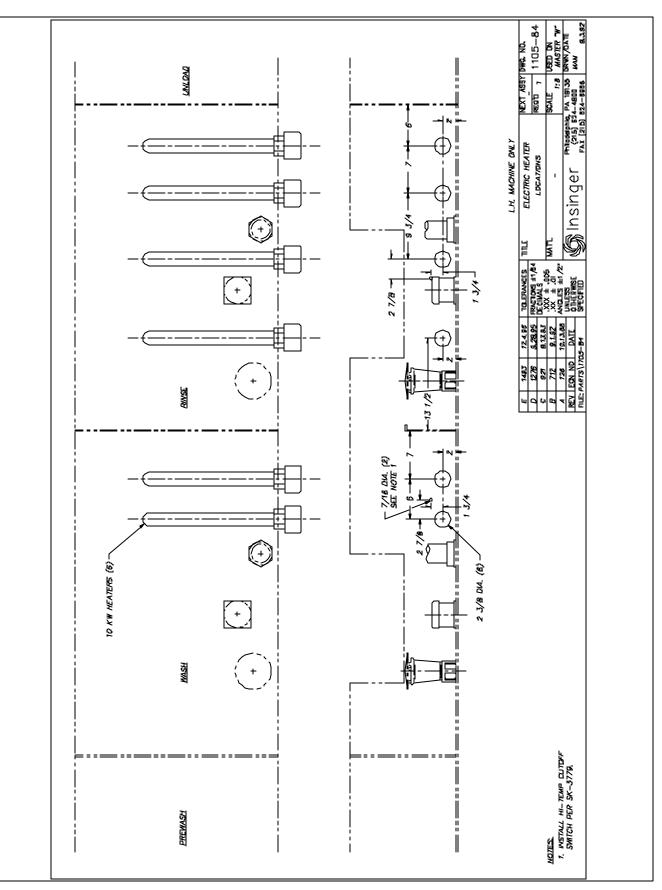






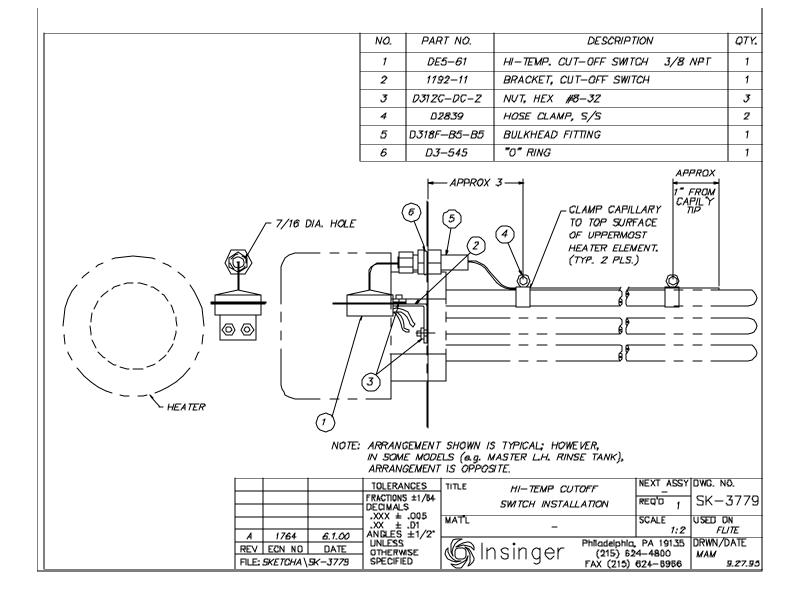




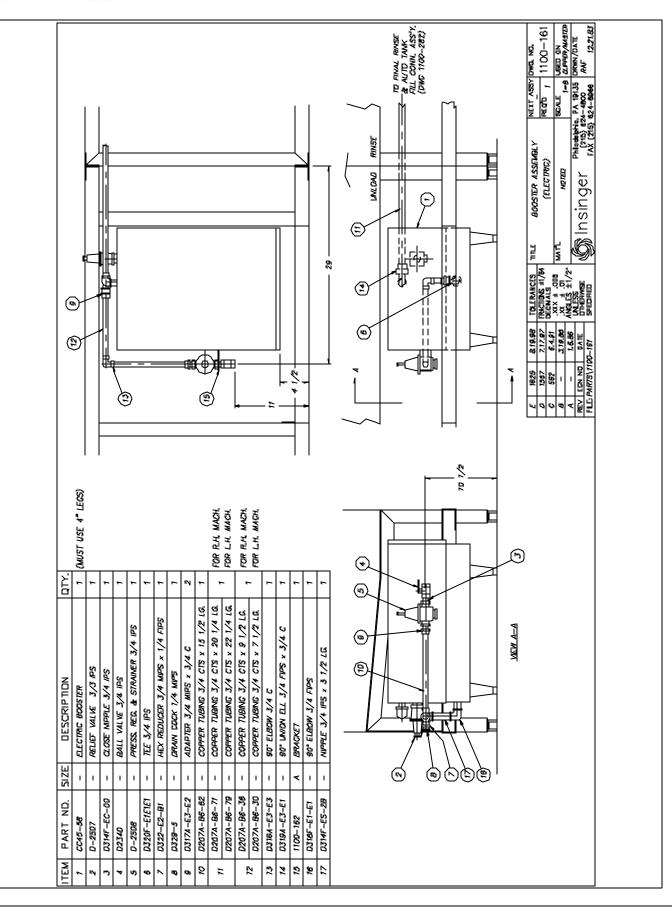




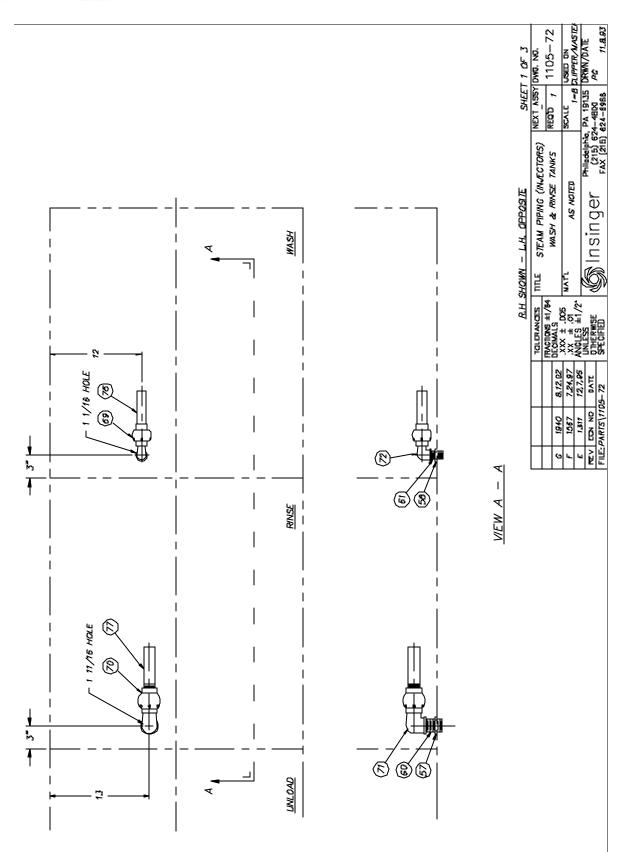














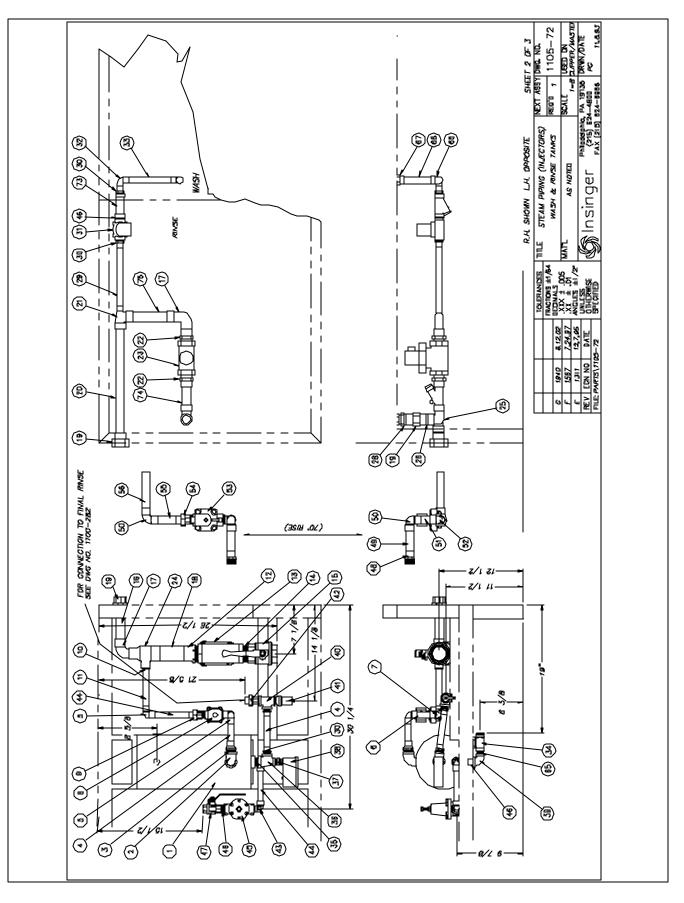
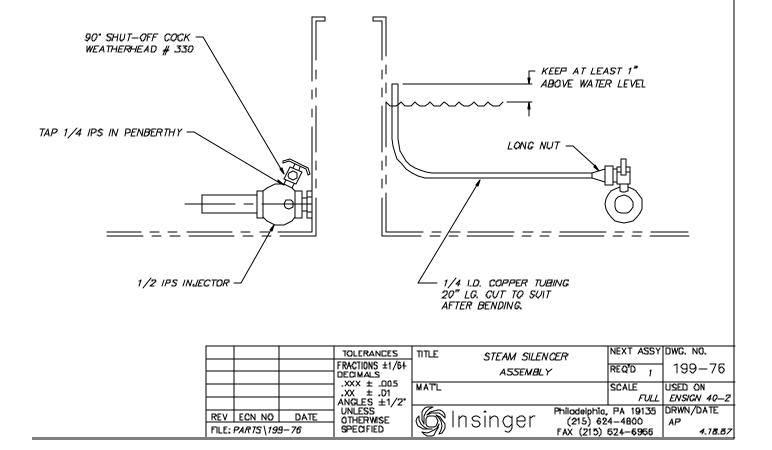


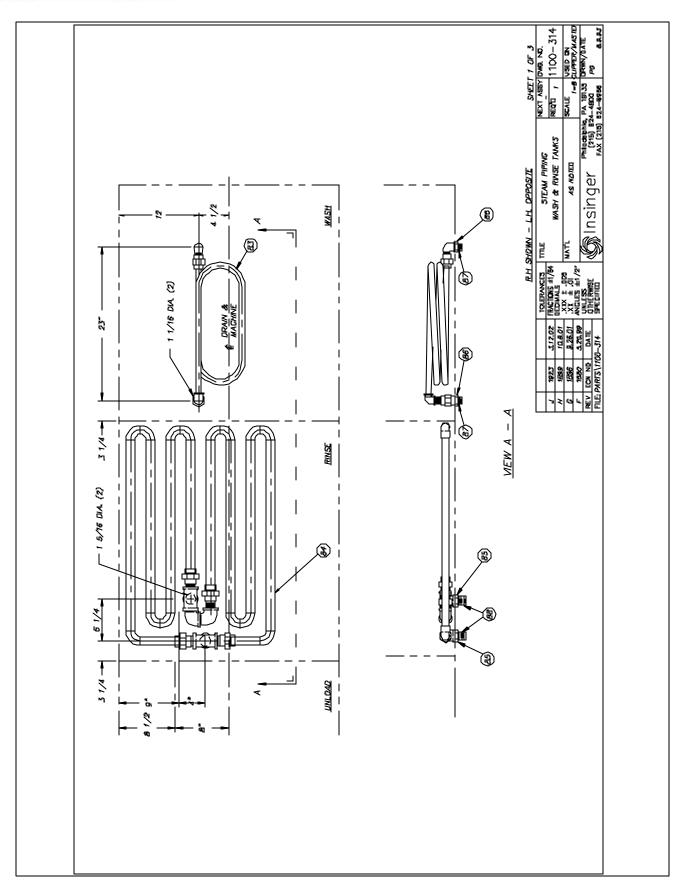


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ITEM  PART IN.0.  DESCORPTION  OTM    RE
ITEM  PART INL  DESCORPTION  OTH    R
ITEM    PART NO.    DESCRIPTION    OTH      62     -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    - </td
ITEM    PART NO.    DESCRIPTION    OTM      62     -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    - </td
ITEM    PART NO.    DESCRIPTION    OTV      62
ITEM  FART NO.  DESCRIPTION  QTV.    62  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
ITEM  FART NO.  DESCRIPTION  QTV.    62  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
ITEM  FART NO.  DESCRIPTION  OTV.    62  -  -  -  -  -    64  -  -  -  -  -  -    65  D37A-15-63  BF ELBOW 3/4 FS  2  1  -  -    67  D317A-17-63  DAPPTER 3/4 FDS X 3/4 S  1  1  -  -  -    68  D237A-BF-3P  DAPPTER 3/4 FDS X 3/4 FS  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1<
ITEM  PART  NO.  DESCRIPTION  QTV    62  -  -  -  -  -  -    63  -  -  -  -  -  -  -    64  -  -  -  -  -  -  -  -    65  D37ACC-C0  MPPLE  CLOFE  JAPRE  JAPRE  1  -    66  D37ACT-C3  ROPER  TEMOW  JAPRE  1  1    7  D2426  STEAM INLECTINE  JAPRE  1  1    7  D24263  STEAM INLECTINE  JAPRE  1  1    77  D2864-CF-C2  RC  STEAM INLECTINE  1  1    77  D2816  MPPLE  1  J  1  1    77  D3164-LF-C2  RC  MPPLE  1  J  1  1    77  D3164-LF-C2  RC  SC  SC  1  1  1  1  1  1  1  1  1  1  1  1  1  1
ITEM    FART    NO.    DESCRIPTION      62    -    -    -      63    5374-50-00    MMPLE    LLGE    1/2 IFS      64    5374-50-00    MMPLE    LLGE    1/4 FS      67    5317A-15-63    AOMPTER    3/4 FS    3/4 FS      67    5317A-15-163    AOMPTER    3/4 FS    5/4 FS      68    2037A-56-20    COMPER    7/4 FS    5/4 FS      69    2037A-56-20    COMPER    7/4 FS    5/4 FS      77    2023PG    607 FILE    1/4 FS    5/4 FS      77    2034A-15-43    607 FILE    1/4 FS    5/4 FS      77    2034A-15-43    MMPLE    1/4 FS    5/4 FS      77    2034A-15-43    MPPLE    1/4 FS    5/4 FS      77 </td

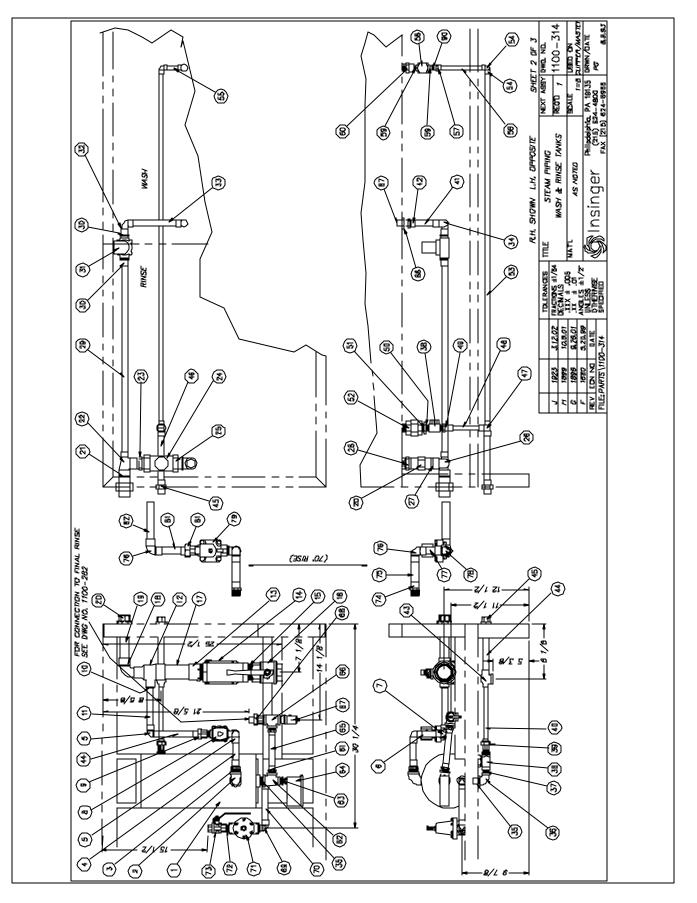


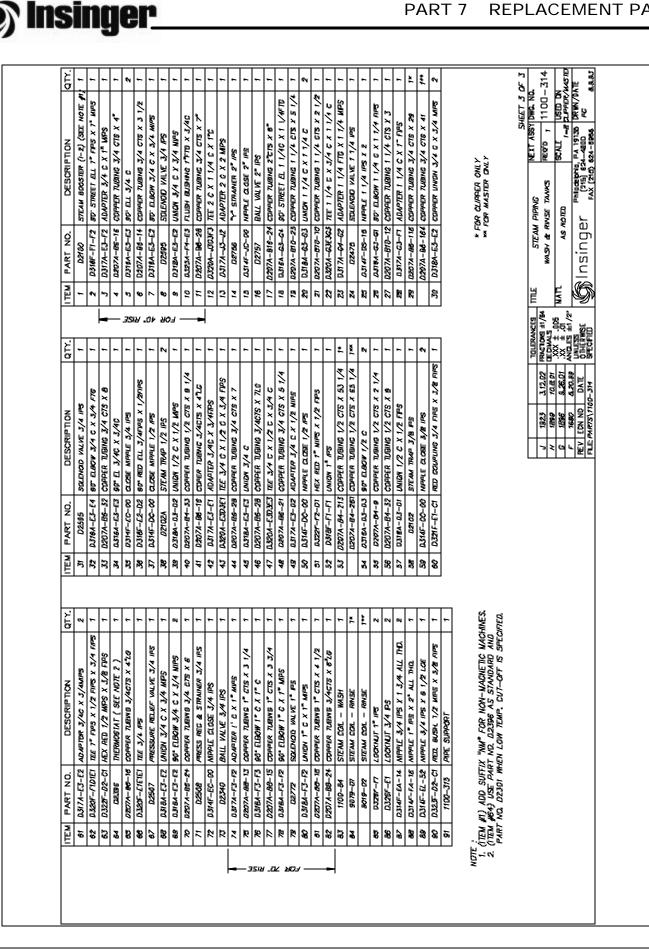




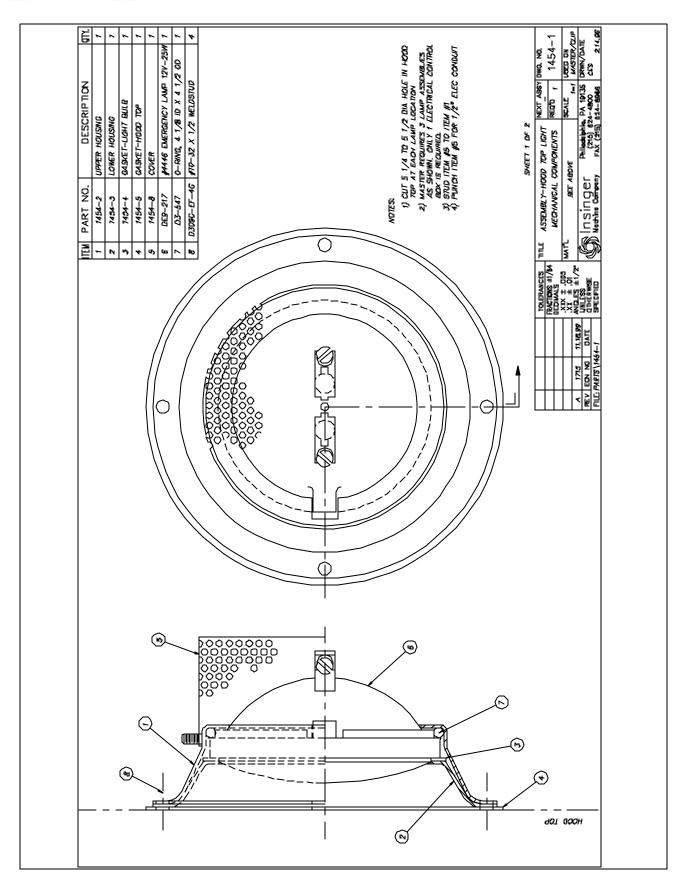




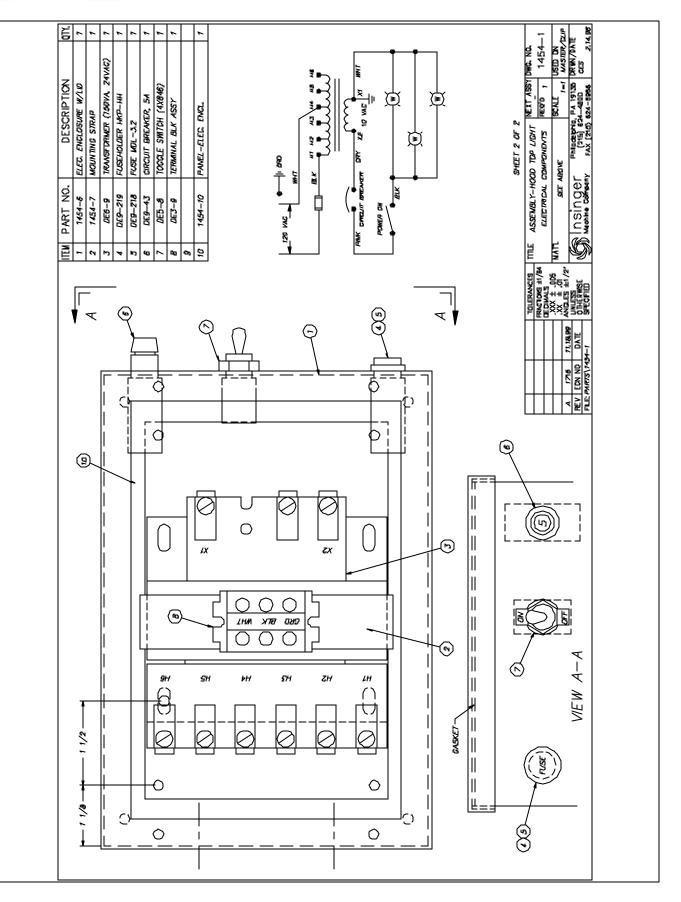




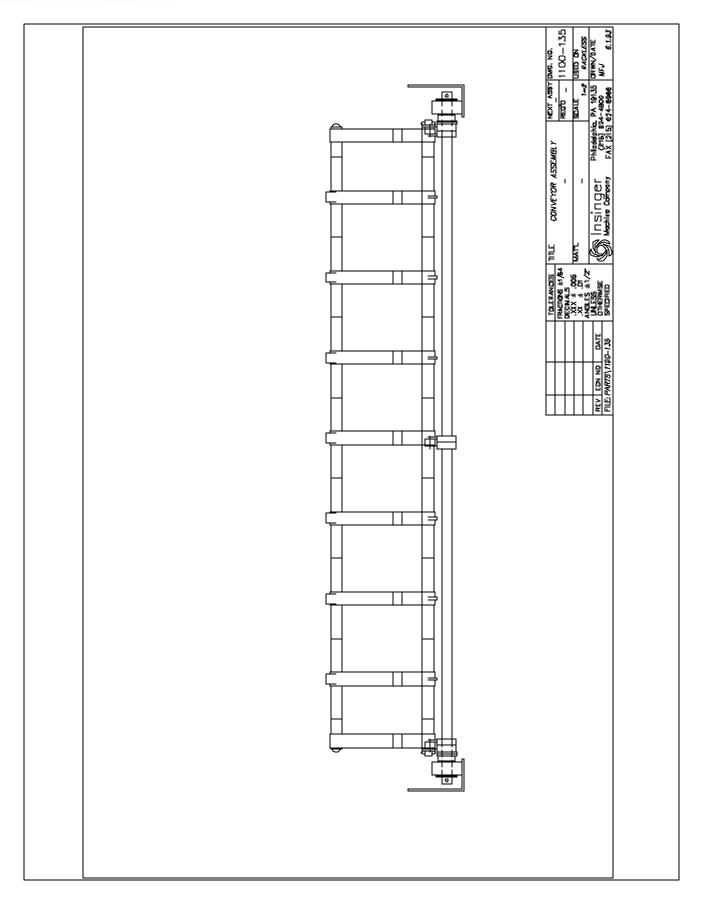




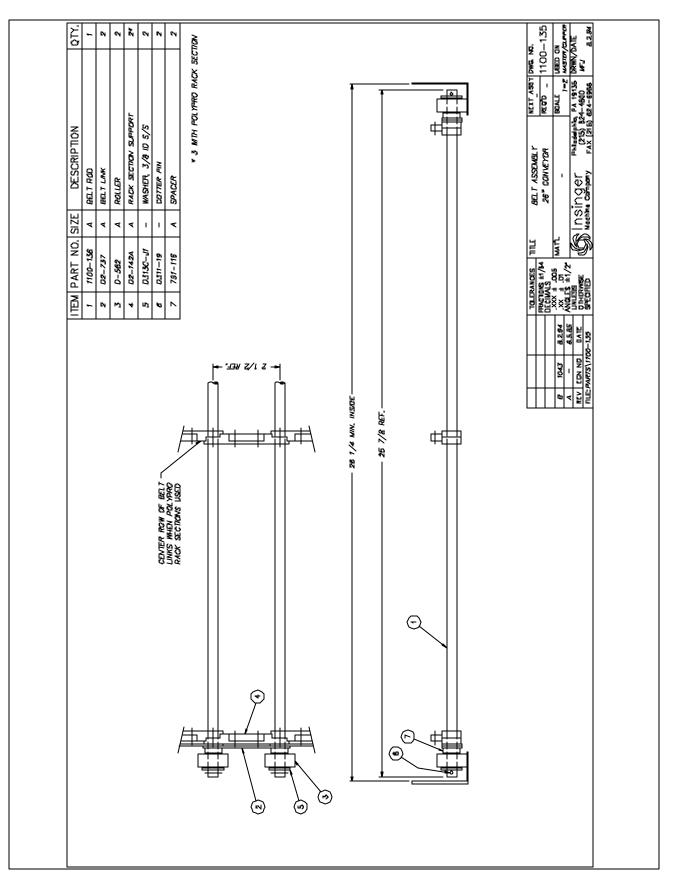




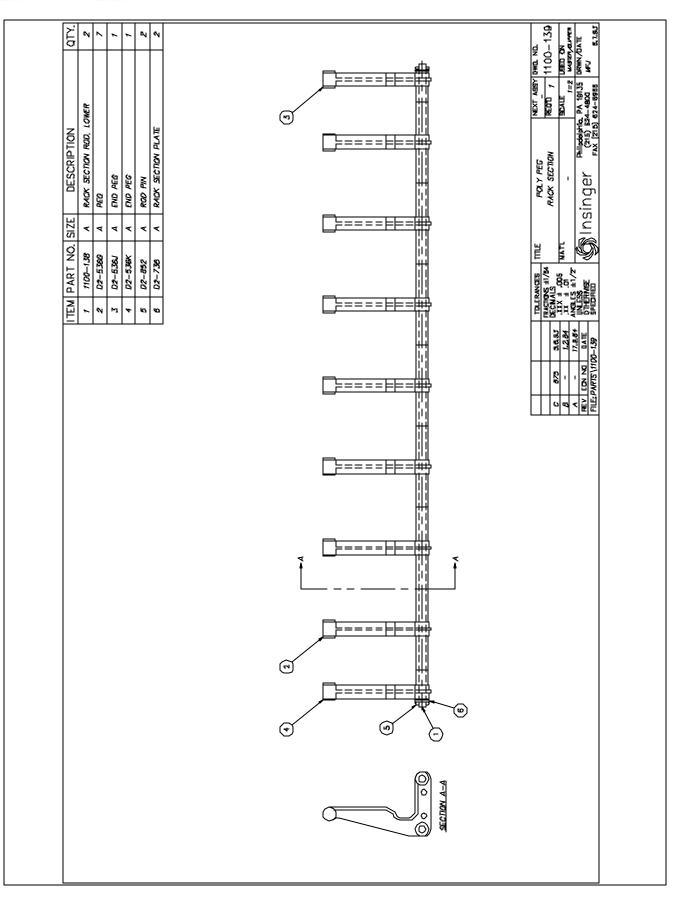




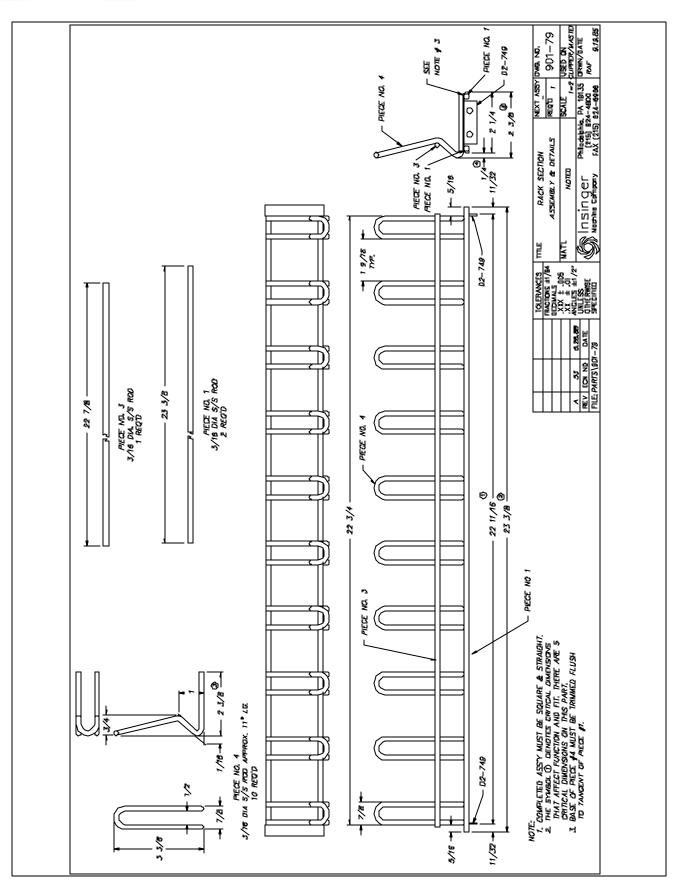




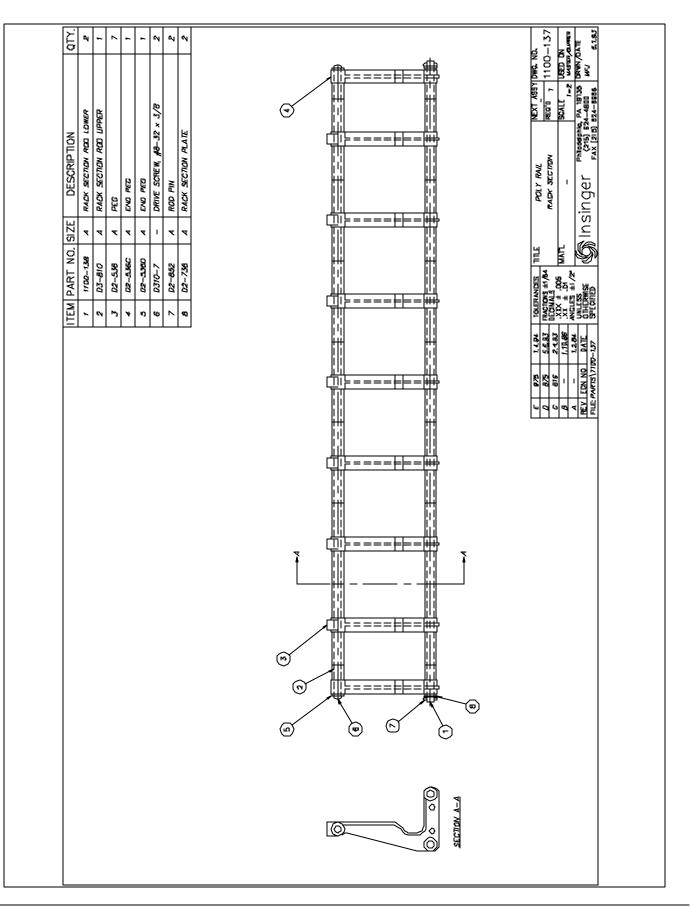














FULL ASSY	DESCRIPTION	BELT ASSY (LESS RACK SECTIONS)	RACK .	SECTION(S)	Ъма, иа. 1100 – 380 чеел а́и Бекил/дате Ме́и 11.29.00
A	STND 25" WIDE POLYPRO RACK SECTIONS	1100—135	(1) 1100–137 RAL (2) 1100–139 PEG		NEXT ASSY D REGT _ 1 SEALE U SEALE U ABHA, PA 19135 DA 10: 624-9506 A (215) 424-9506
B	STND 31" WIDE POLYPRO RACK SECTIONS	142 <b>5</b> —10	(1) 1425–11 RAIL (2) 1426–12 PEG		RIGHT CONVEYOR ASSEMBLES 113 DSIDGE 13
С	STND 28° WIDE S/S RACK SECTIONS	1100—135	901—79		10日1日の10日 10日1日の10日 10日 10日 10日 10日 10日 10日 10日 10日 10日
D	STND 31" WIDE S/S RACK SECTIONS	1420—10	1426-74		1 7.18.01 /
E	SPECIAL 26" WIDE POLYPRO RACK SECTIONS "BACK TO BACK" OWM & TIVOLI TRAYS	1100—13 <del>5</del>	ALL 1100–137 RAILS		900 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
F	SFECIAL 37° WIDE POLYPRO: RACK SECTIONS "BACK TO BACK" OMM & TIVOLI TRAYS	1426–10	ALL 1426–11 RAILS		-
G	SPECIAL 25° WIDE POLYPRO RACK SECTIONS	7100–135	(1) 1100–7.37 RAU (1) 1100–7.39 PEG		-
Η	SPECIAL 26" WIDE POLYPRO RACK SECTIONS	1100–135	ALL 1700–139 PEG		-
J	SPECIAL 31" WIDE POLYPRO RACK SECTIONS	1426—10	ALL 1428—12 PEG		
К	SPECIAL 26° WIDE POLYPRO RACK SECTIONS (TEHACHAPI COY)	1100–135	ALL 1100–137 RAIL		



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