



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™ 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™ Start-Up & Check-Out Program.

Please read the Insinger Limited Warranty 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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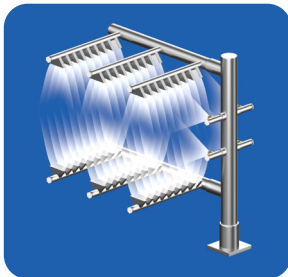


ESSENTIAL SERIES

Project _____
Item _____
Quantity _____
CSI - 11400 _____
Approval _____
Date _____

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
- 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



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

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

OPTIONS

- 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





CLIPPER

Three Tank Rackless Conveyor Dishwasher

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 at 20 psi min.	218 lbs./hour tank 54 lbs./hour remote booster 40° rise 96 lbs./hour remote booster 70° rise
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	3000 lbs.

Machine Electrical		
Motors, Controls Tank Heat	Steam	Electric
208/3/60	25.2	198.9
240/3/60	22.9	171.8
480/3/60	11.4	85.6
380/3/50	13.8	107.6

*Booster requires separate electrical connection

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

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

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.

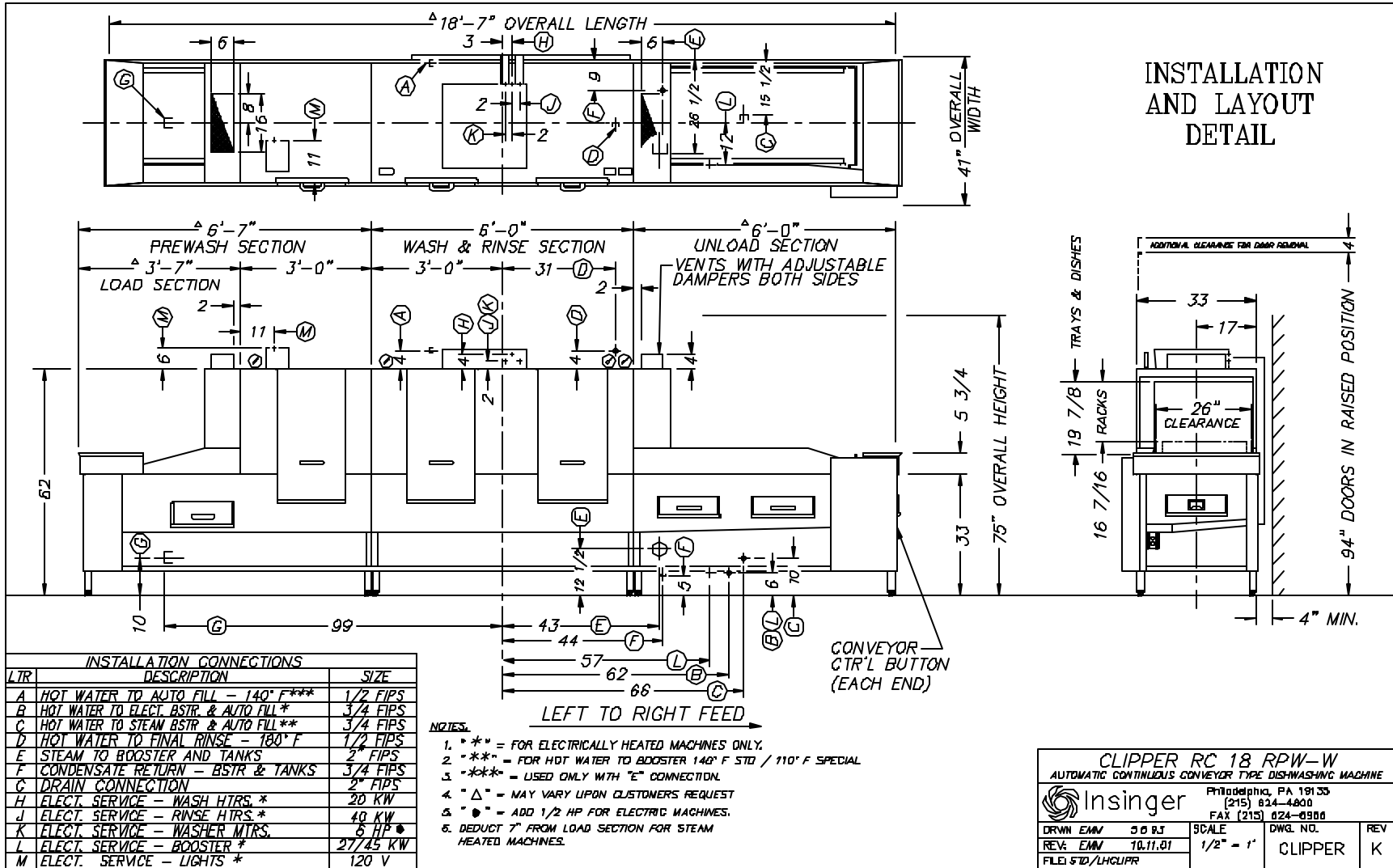
WASH- Upper and lower manifolds with the patented CrossFire® Wash System. Each manifold has 3 upper and 4 lower power wash arms designed with pressure action cleansing slots. The slots are precision milled for water control producing a fan spray. Wash arms are fillet welded to the S/S manifold. The CrossFire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

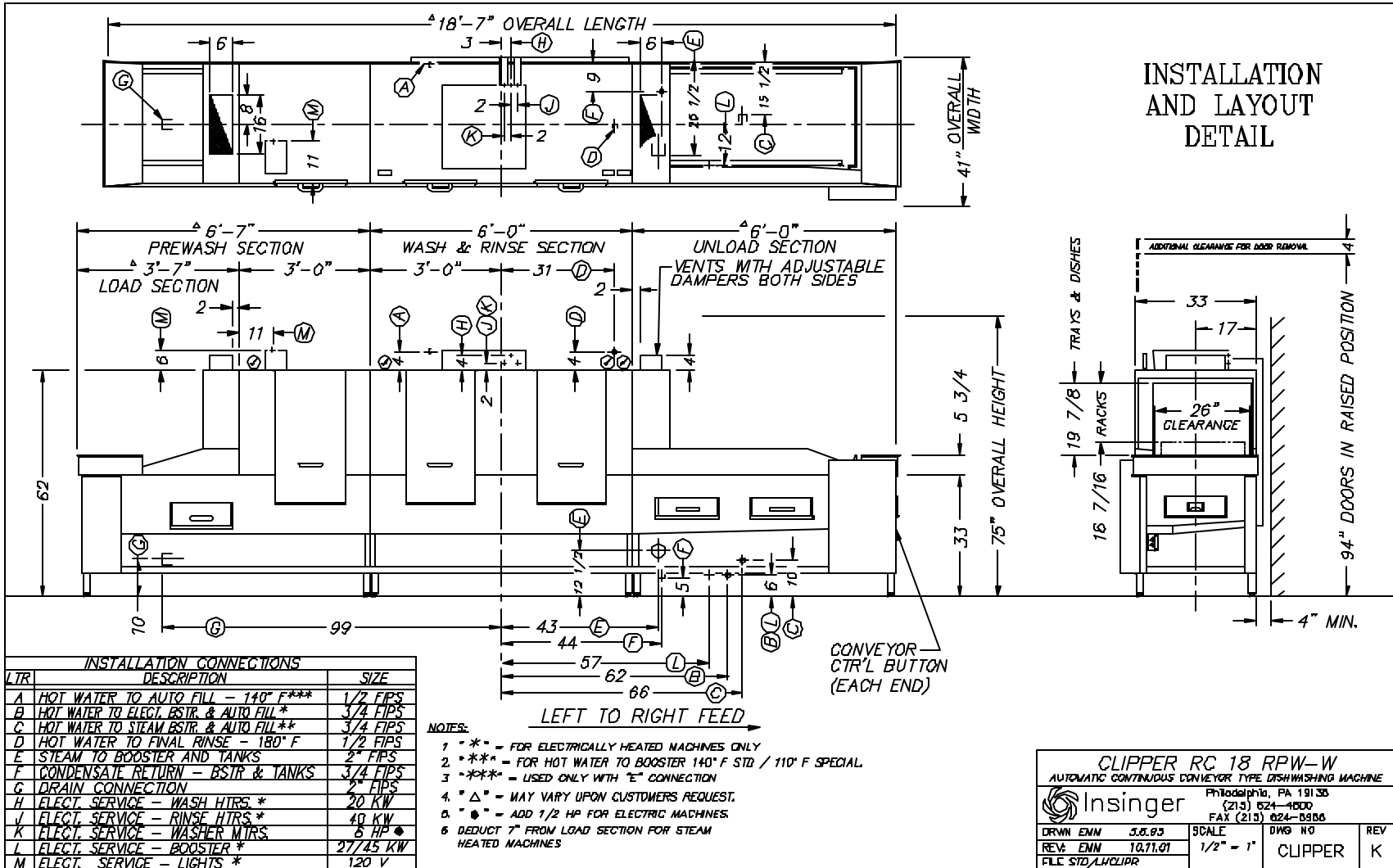
FINAL RINSE- Eight nozzle assemblies above and four nozzles below threaded into S/S schedule 40 pipes. Nozzle assemblies produce a fan spray reducing water consumption, maximizing heat retention.

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.

INSTALLATION AND LAYOUT DETAIL



INSTALLATION AND LAYOUT DETAIL



INSTALLATION CONNECTIONS		
LTR	DESCRIPTION	SIZE
A	HOT WATER TO AUTO FILL - 140° F***	1/2 FIPS
B	HOT WATER TO ELECT. BSTR. & AUTO FILL *	3/4 FIPS
C	HOT WATER TO STEAM BSTR. & AUTO FILL**	3/4 FIPS
D	HOT WATER TO FINAL RINSE - 180° F	1/2 FIPS
E	STEAM TO BOOSTER AND TANKS	2" FIPS
F	CONDENSATE RETURN - BSTR. & TANKS	3/4 FIPS
G	DRAIN CONNECTION	2" FIPS
H	ELECT. SERVICE - WASH HTRS *	20 KW
J	ELECT. SERVICE - RINSE HTRS *	40 KW
K	ELECT. SERVICE - WASHER MTRS.	8 HP ●
L	ELECT. SERVICE - BOOSTER *	27/45 KW
M	ELECT. SERVICE - LIGHTS *	120 V

- NOTES:
1. *** - FOR ELECTRICALLY HEATED MACHINES ONLY
 2. *** - FOR HOT WATER TO BOOSTER 140° F STD / 110° F SPECIAL
 3. *** - USED ONLY WITH "E" CONNECTION
 4. "Δ" - MAY VARY UPON CUSTOMERS REQUEST.
 5. "●" - ADD 1/2 HP FOR ELECTRIC MACHINES
 6. DEDUCT 7" FROM LOAD SECTION FOR STEAM HEATED MACHINES

CLIPPER RC 18 RPW-W
 AUTOMATIC CONTINUOUS CONVEYOR TYPE DISHWASHING MACHINE

Insinger Philadelphia, PA 19136
 (215) 624-4800
 FAX (215) 624-8866

DRWN ENN 3.8.93	SCALE 1/2" = 1"	DWG NO CLIPPER	REV K
REV: ENN 10.71.01			
FILE STD/ANCLIPP			

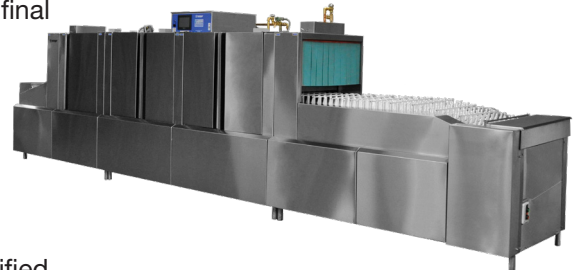


ESSENTIAL SERIES

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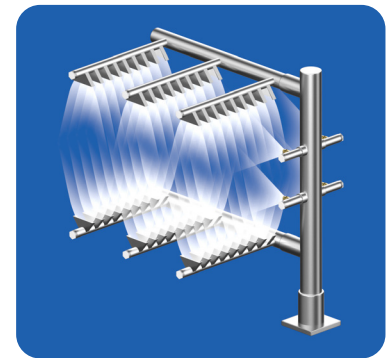
MASTER Three Tank Rackless Conveyor Dishwasher

- 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

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	32.3	39.5	203.9
240/3/60	29.2	35.8	178.2
480/3/60	14.6	17.9	88.8
380/3/50	17.7	21.7	111.5

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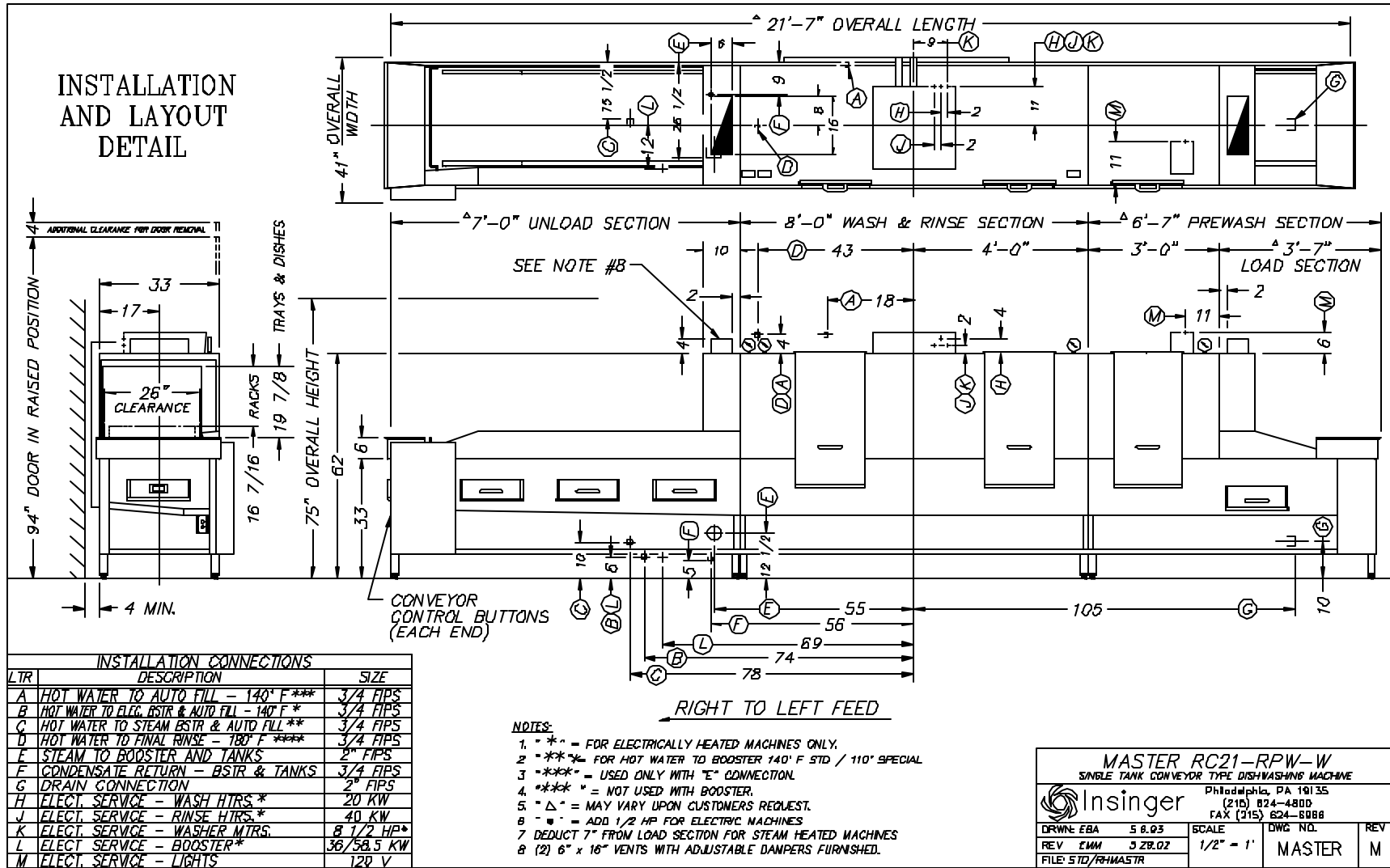
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RINSE- Upper and lower manifolds. Each manifold has 3 upper and 4 lower power rinse arms designed with pressure action fan spray reducing water consumption, maximizing heat retention.

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.

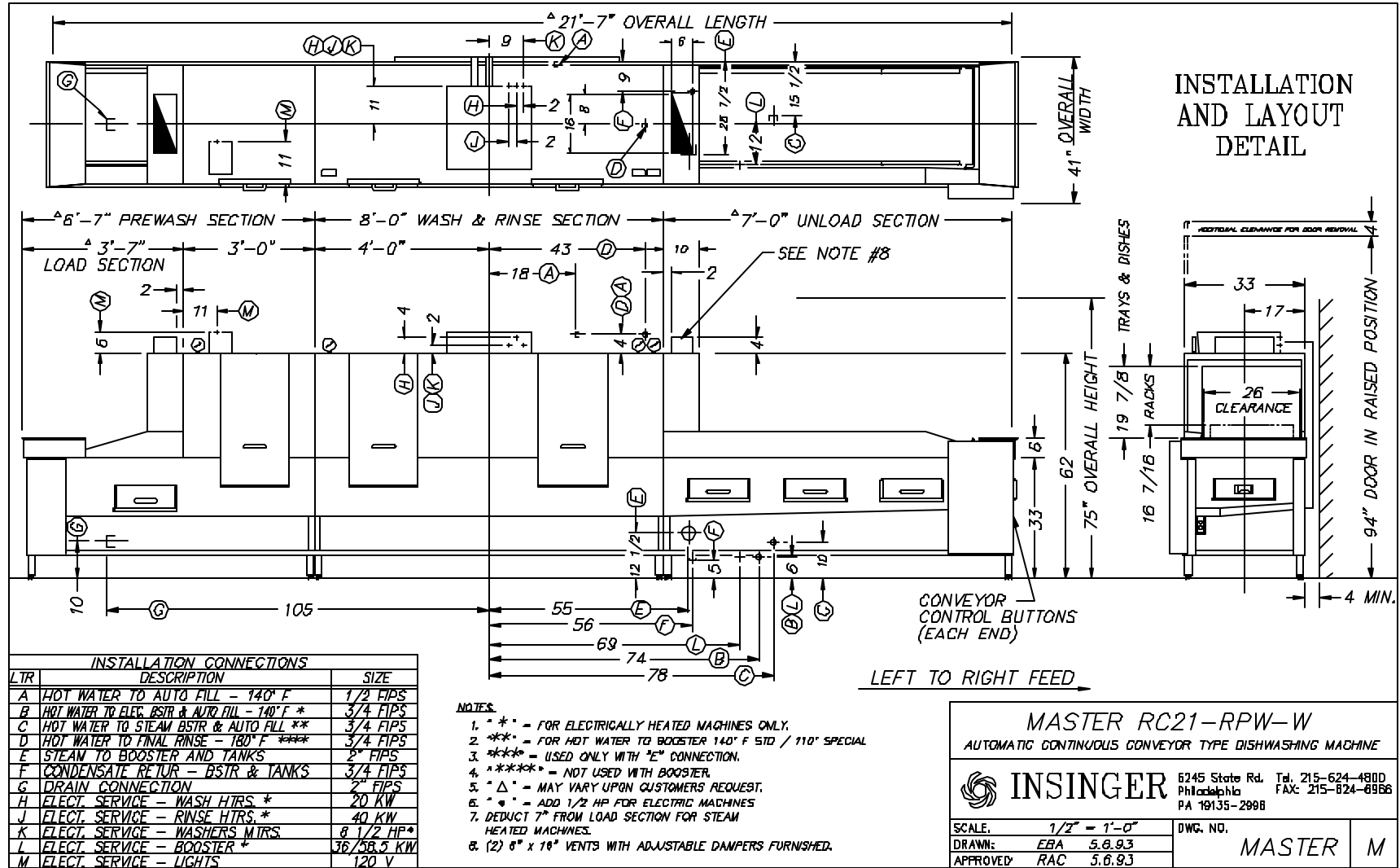
INSTALLATION AND LAYOUT DETAIL



MASTER RC21-RPW-W
SINGLE TANK CONVEYOR TYPE DISHWASHING MACHINE

Philadelphia, PA 19135
(215) 824-4800
FAX (215) 624-8988

DRWN: EBA	5 8.03	SCALE	DWG. NO.	REV
REV	EMM	3 28.02	1/2" = 1"	MASTER
FILE: 510/RHMASTR				M



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 your 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™ Start-up & Check-out Program
Insinger is proud to offer our exclusive Surefire™ 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 aforesaid 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.

**NOTE:**

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.

5. 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 build-up 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.

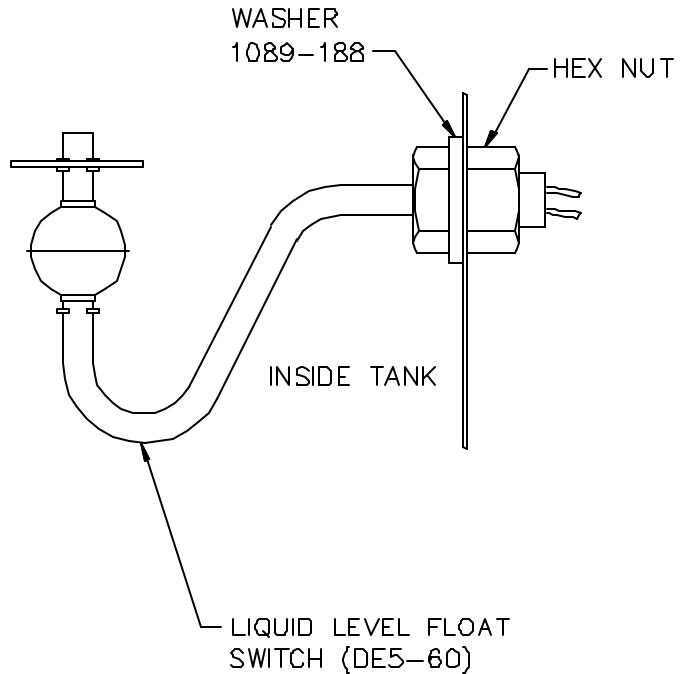
13. Refer to the cleaning procedures for proper clean-up of the dish machine.
14. Report any unusual occurrences to qualified service personnel.


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.

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

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.

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.

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

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

1. 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 de-liming 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.
4. 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.
4. Install in reverse of removal.

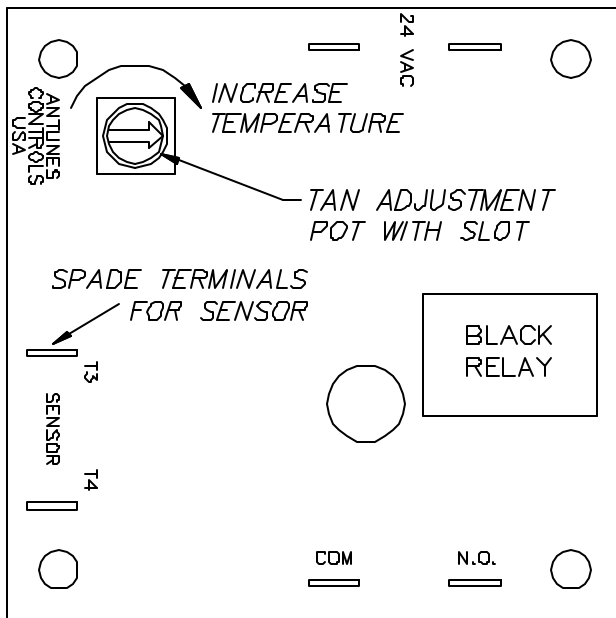


NOTE:

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

Tank Heat Temperature Adjustment

1. 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 start-up.
2. 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

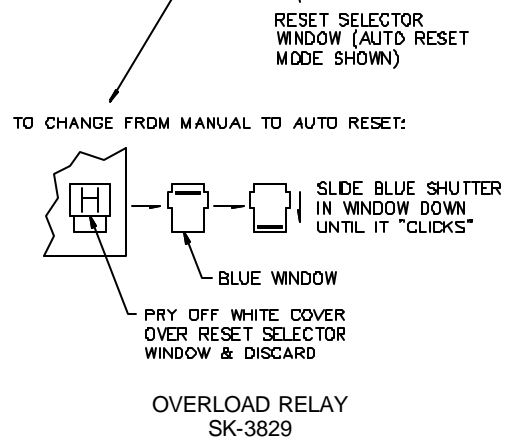
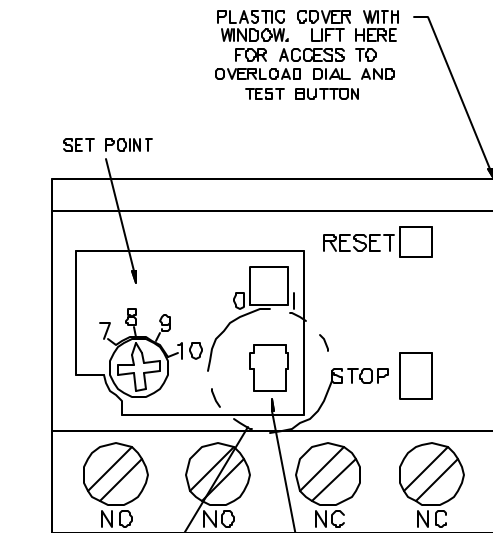
1. If temperature cannot be adjusted, check the temperature control board P/N DE9-251 proper operation. If the temperature control board is faulty, replace.
2. Verify tank heat contactor is working correctly. If not, replace. Verify all immersion heaters are working properly and not limed. If not, replace.

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.

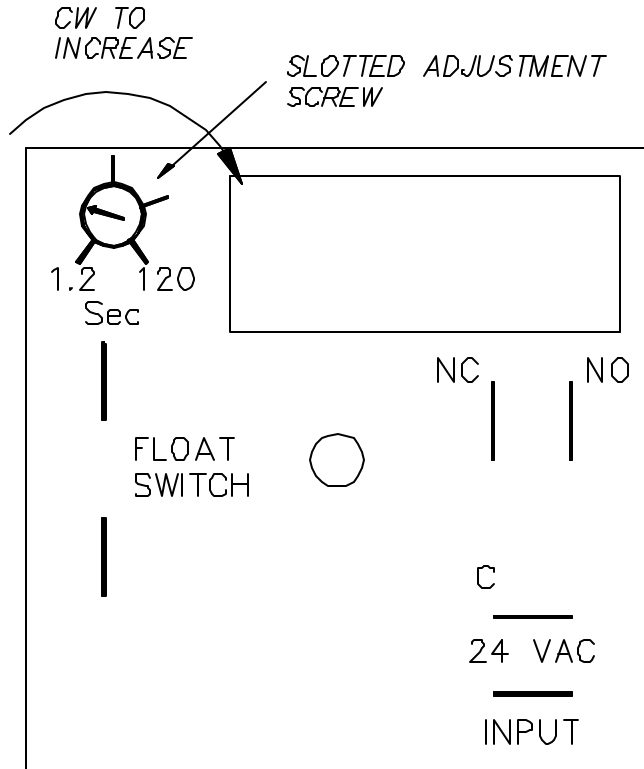
Motor Overloads

1. 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.



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

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.
2. 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

1. 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)

1. 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.

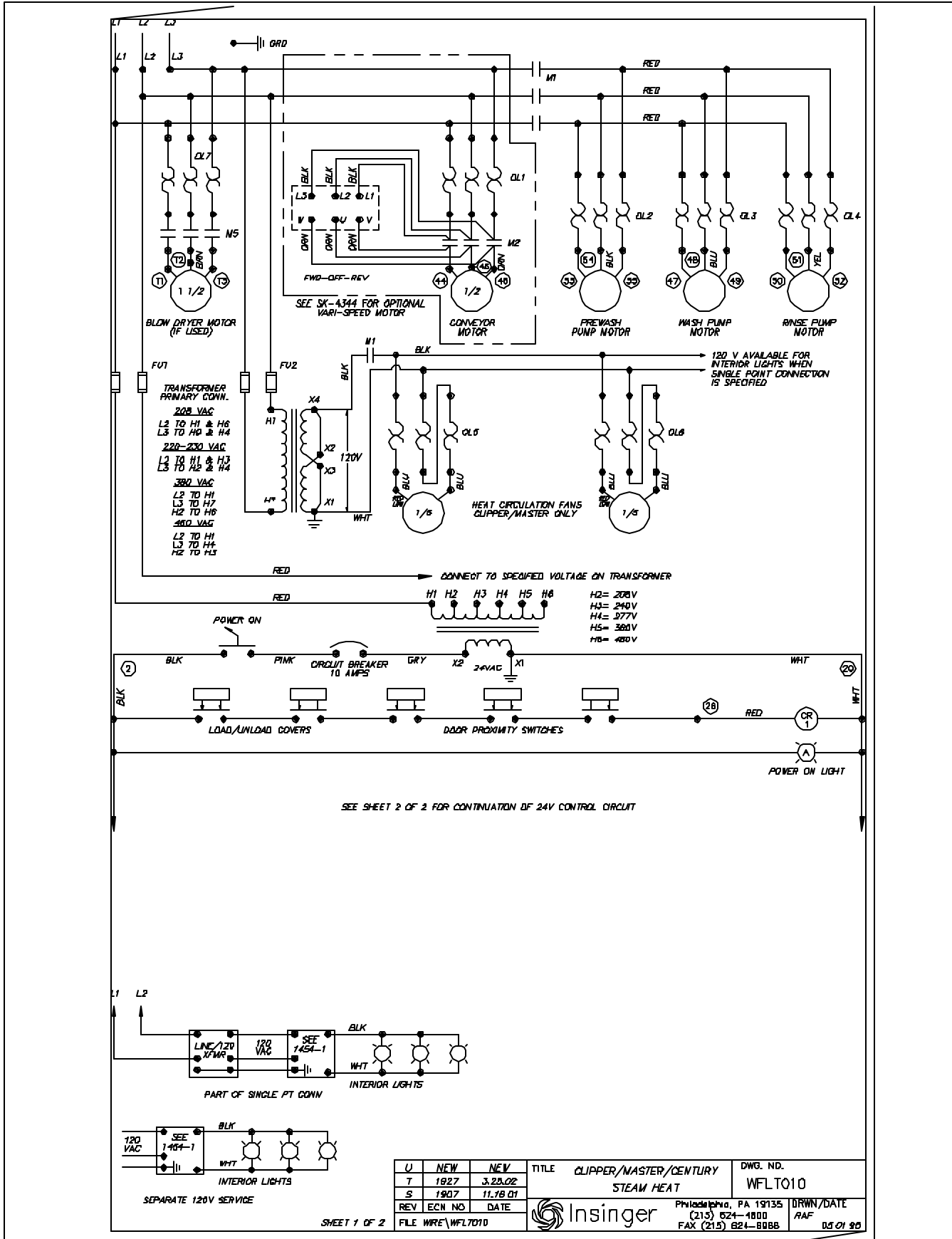
CAUTION:

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



WARNING:

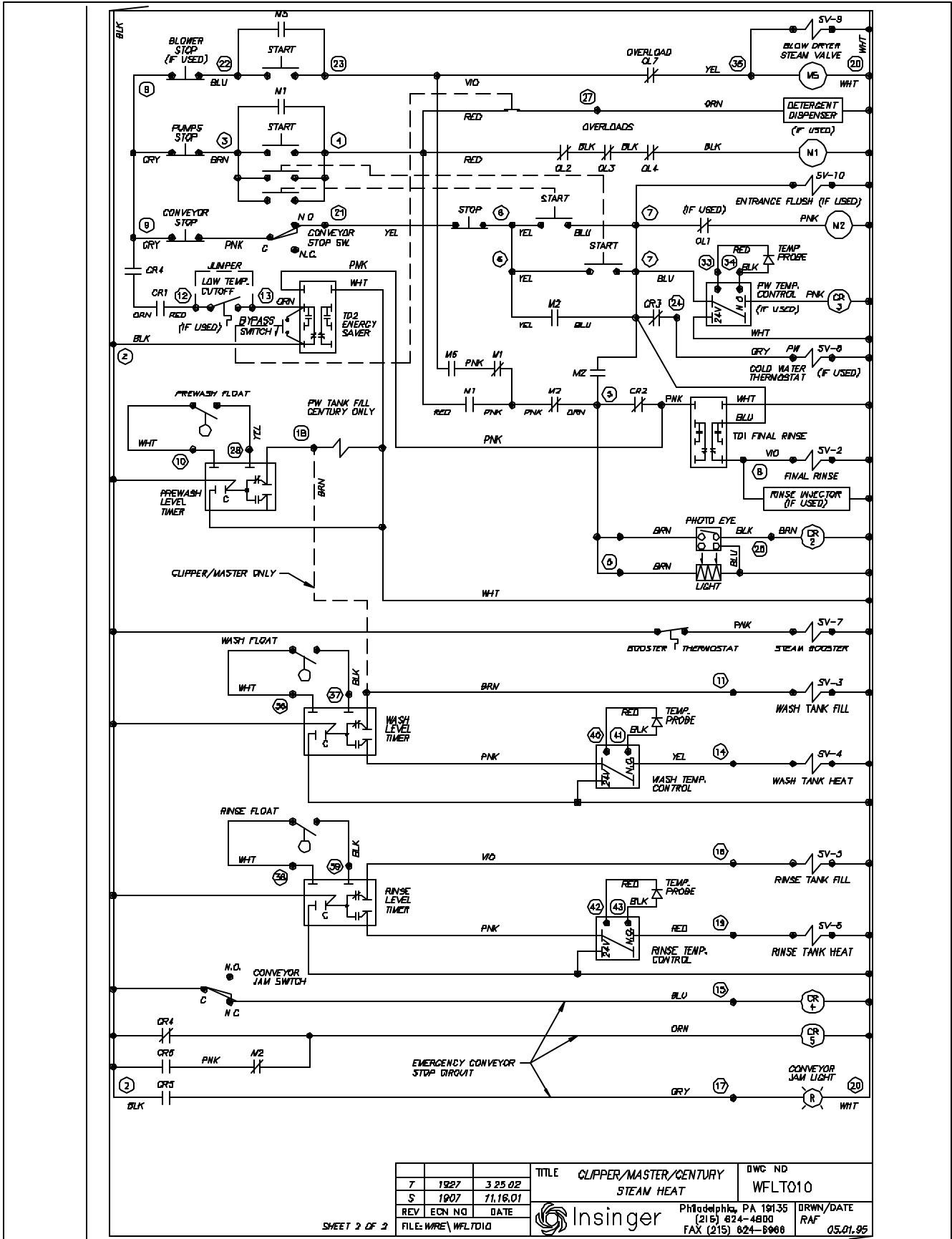
Dirty level floats will cause the tank heat to energize with no water in the tanks. LEVEL FLOATS MUST BE CLEANED DAILY.



U	NEW	REV		TITLE	CLIPPER/MASTER/CENTURY	DWG. NO.	
T	1827	3.25.02			STEAM HEAT	WFLT010	
S	1907	11.78.01					
REV	ECN NO	DATE					

Philadelphia, PA 19135
(215) 624-4800
FAX (215) 624-8088

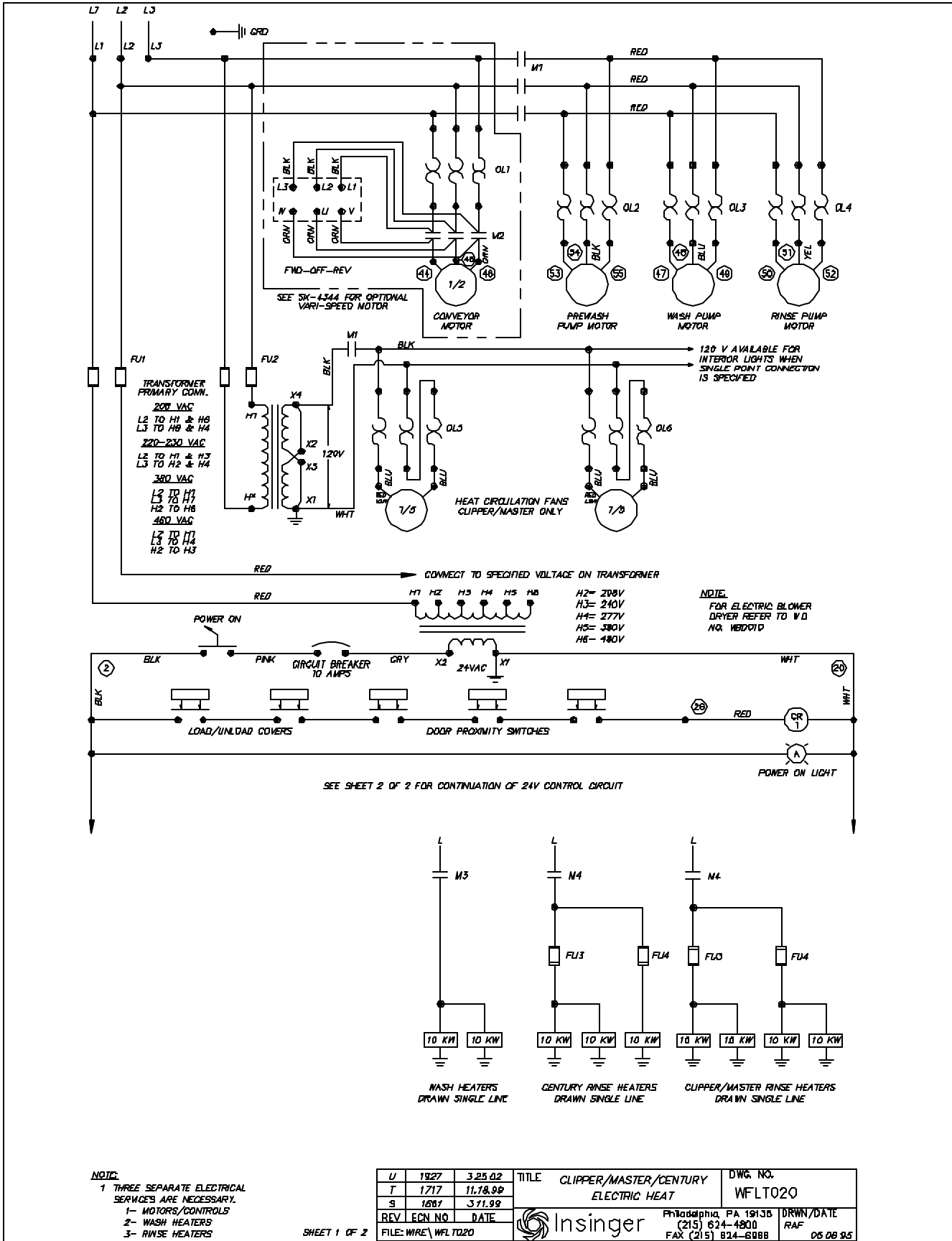
DRWN/DATE
RAF
03.01.00

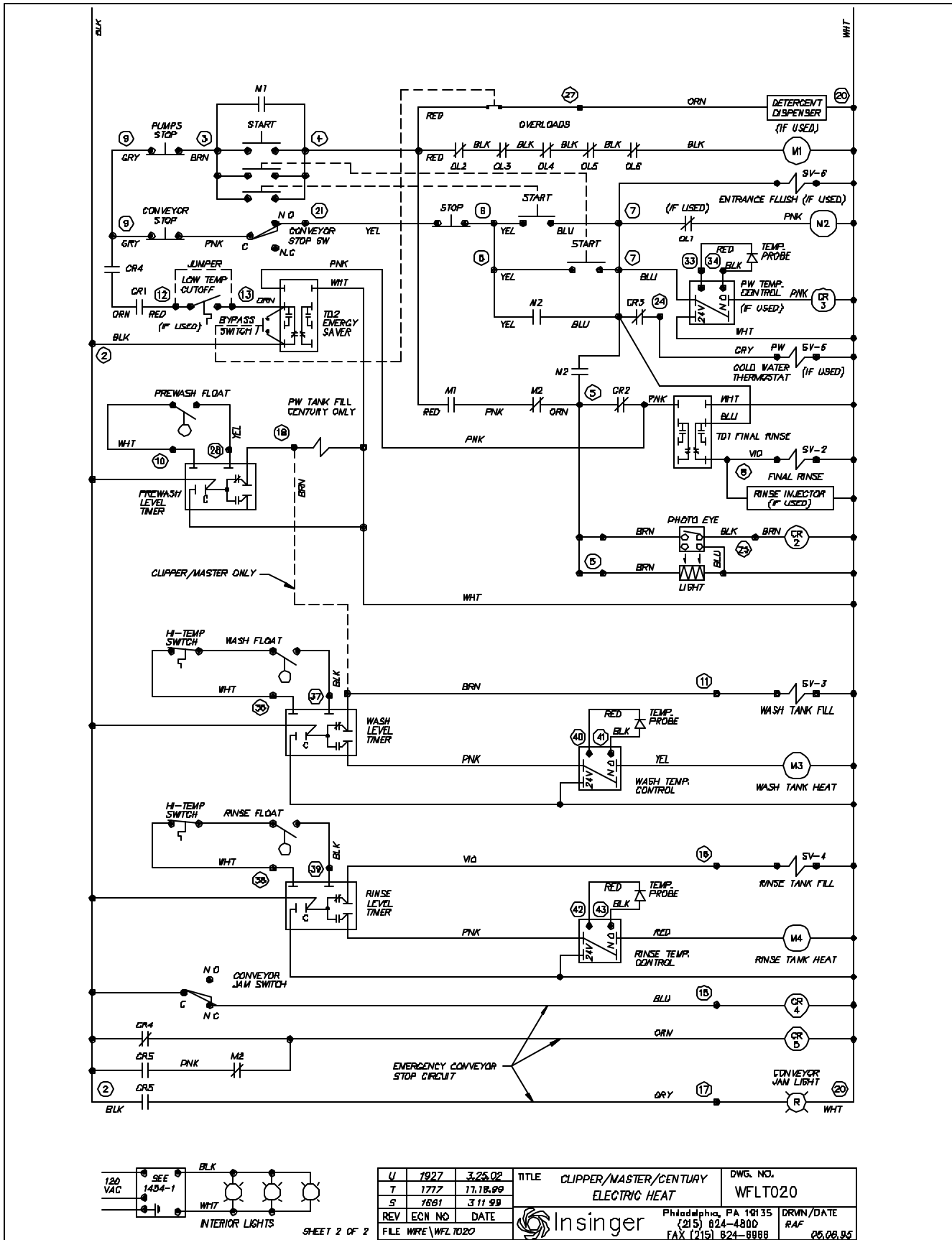


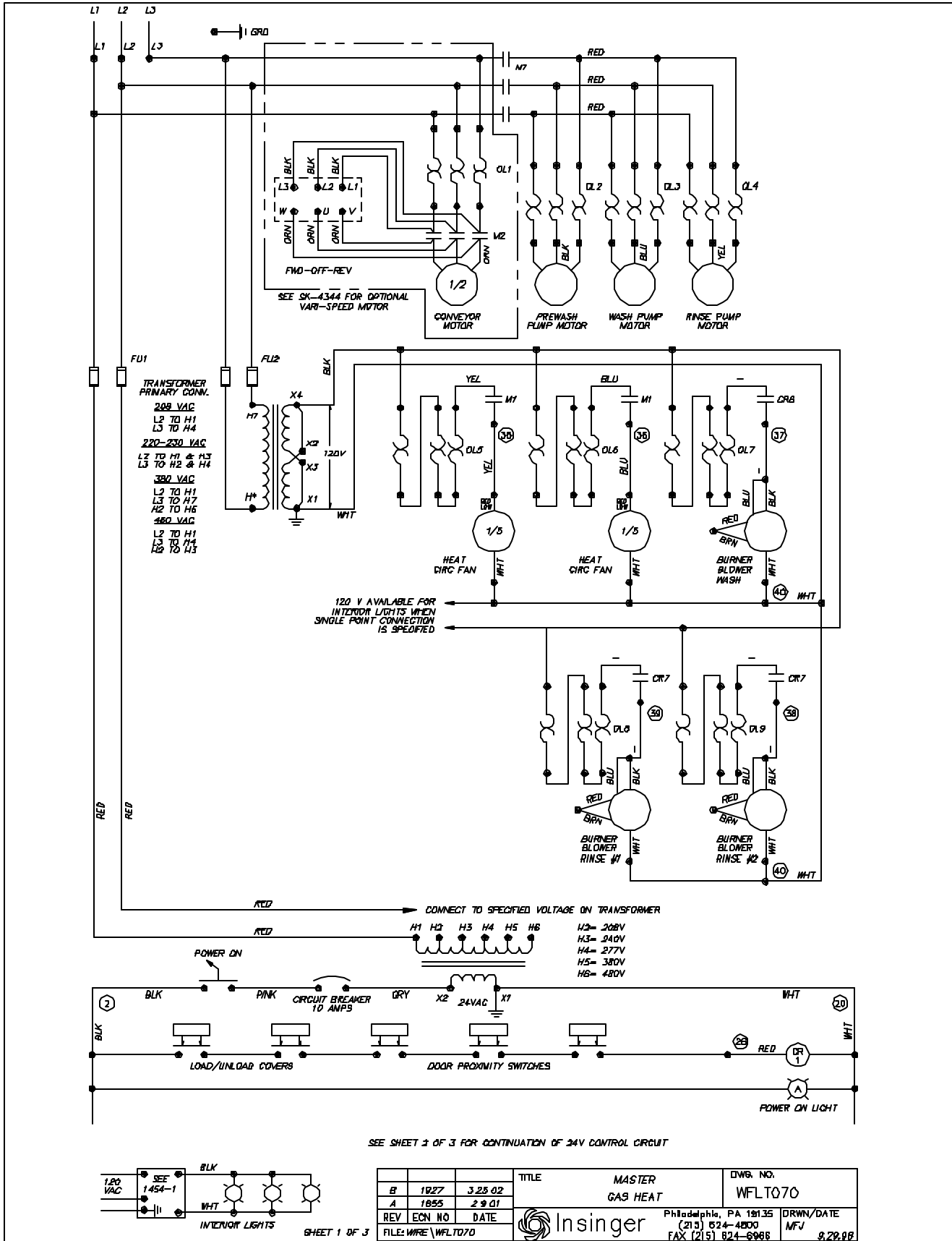
SHEET 3 OF 3

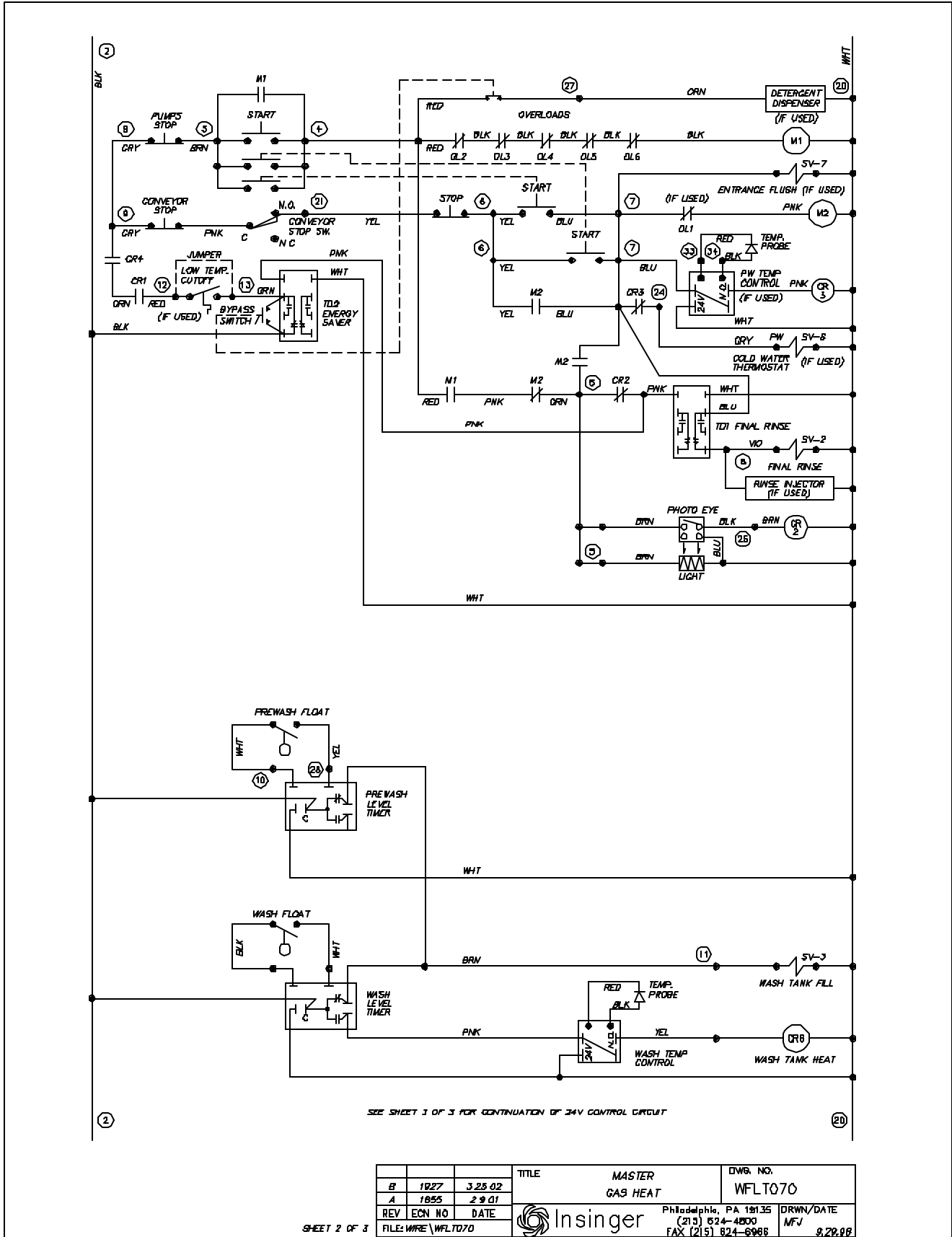
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S	1907	7.1.18.01
REV	EDN NO	DATE
FILE: WARE\WFLTD10		

TITLE	CLIPPER/MASTER/CENTURY STEAM HEAT	DWG NO	WFLTD10
		Philadelphia, PA 19135 (215) 624-4800	DRWN/DATE RAF 05.01.95
		FAX (215) 624-8000	

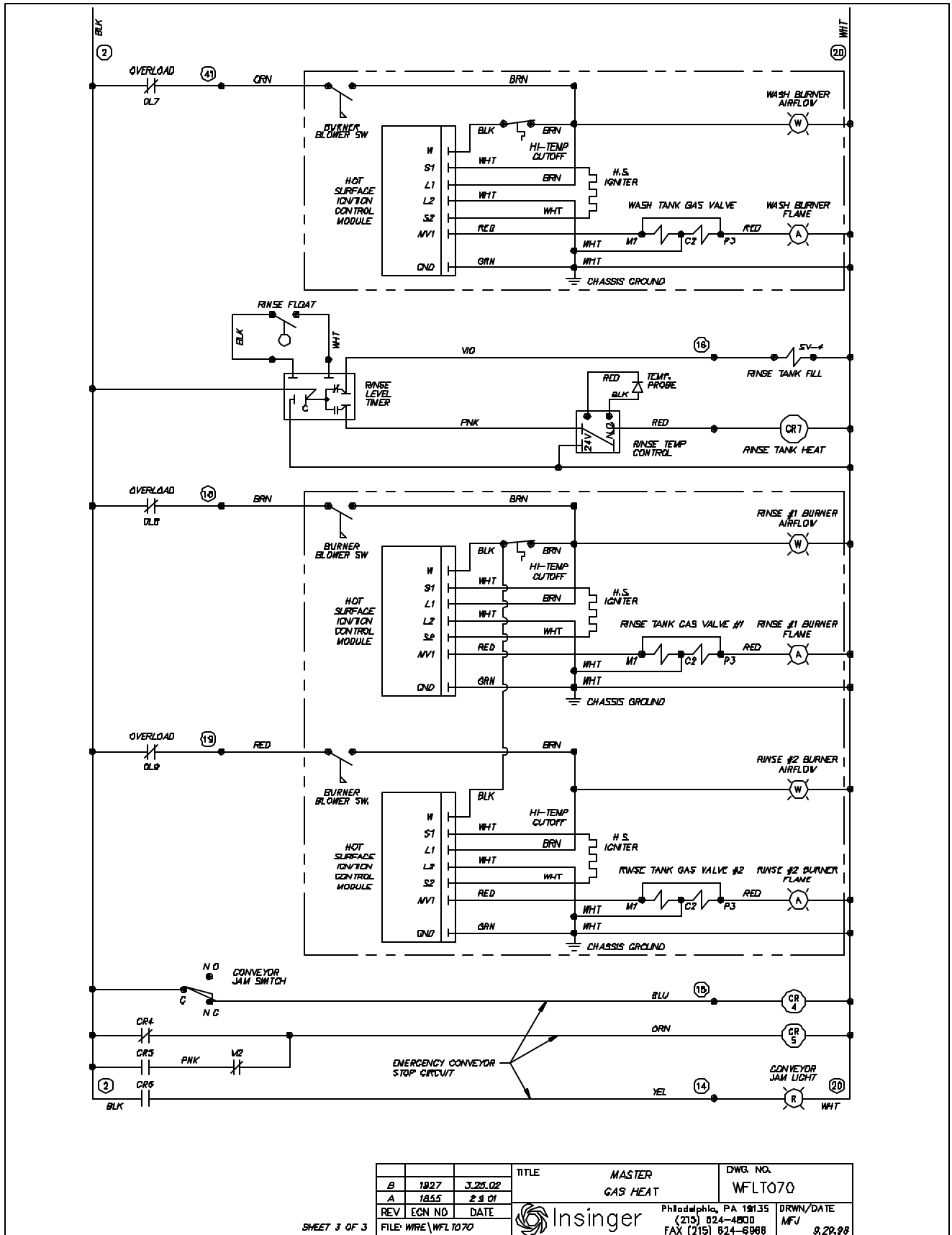








B	1927	3 25 02	TITLE	MASTER GAS HEAT	DWG. NO.	WFLT070
A	1855	2 9 01	REV	ECN NO	DATE	Philadelph, PA 19135 (215) 524-4800 FAX (215) 524-8966
SHEET 2 OF 3			FILE: WIRE\WFLT070	DRWN/DATE	NFJ	8.29.08



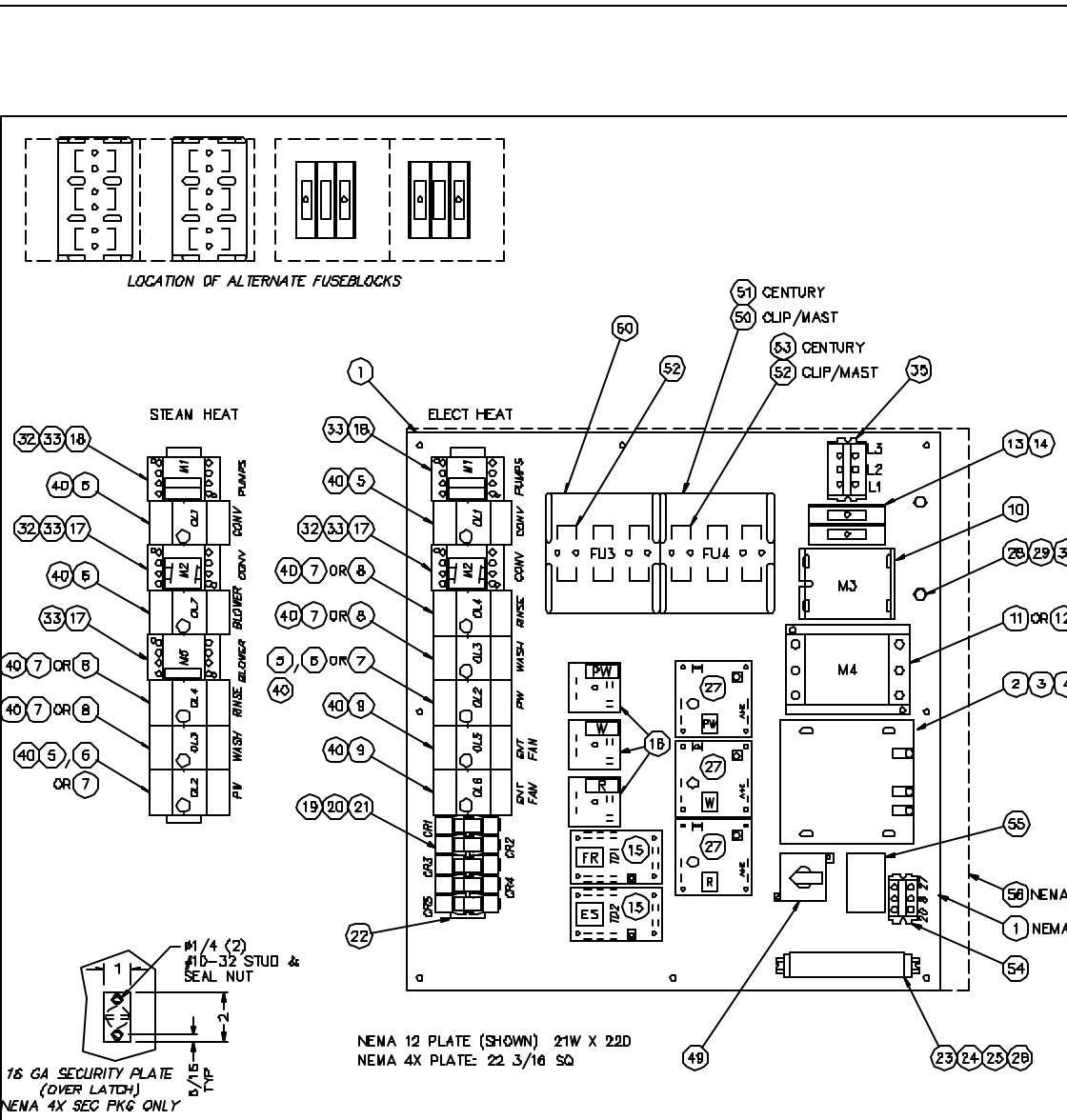
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REV	EGN NO	DATE	Insinger		Philadelphia, PA 19135
FILE	WIRE	WFL1070			(215) 824-4800
					FAX (215) 824-8988
					DRWN/DATE
					MFJ 9.29.98

SHEET 3 OF 3

SHEET 1 OF 2

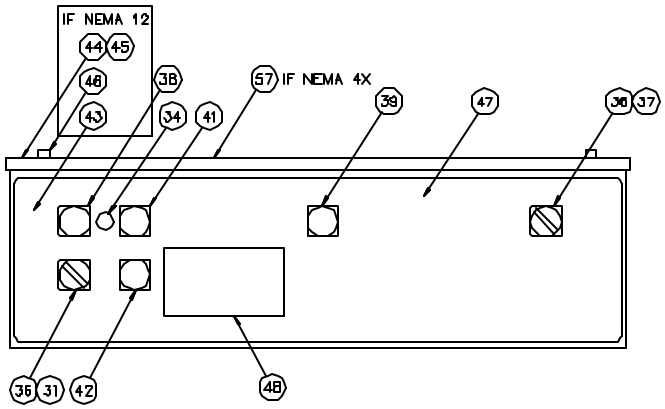
ITEM	DESCRIPTION	PART NO.	QTY
1	COMPONENT MTG PLATE (NEMA 12 BOX)	12B2-30	1
2	TRANSFORMER (250 VA, 24 VAC)	DE8-25	1
3	FUSE BLOCK KIT (250 VA XFMR)	DE9-185	1
4	FUSE (250 VA TRANSFORMER PRIMARY)		2
	460 V FNQ-R-1.8	DE9-189	
	380 V FNQ-R-2	DE9-170	
	220 - 230 V FNQ-R-3.5	DE9-174	
	208 V FNQ-R-4	DE9-175	
5	OVERLOAD RELAY (1/2 HP CENTURY PRE-WASH PUMP, ALL 1/2 HP CONV DRIVES)		AR
	460/3/60 1-1 6 A	DE2-50	
	380/3/60 1-1 6 A	DE2-50	
	230/3/60 1.6-2.5 A	DE2-52	
	208/3/60 1.6-2.5 A	DE2-52	
6	OVERLOAD RELAY (1-1/2 HP CLIPPER PREWASH PUMP AND 1-1/2 HP STEAM DRYER MOTOR)		AR
	460/3/60 1.6-2.5 A	DE2-52	
	380/3/60 2.5-4 A	DE2-53	
	230/3/60 4-6 A	DE2-54	
	208/3/60 4-6 A	DE2-54	
7	OVERLOAD RELAY (2 HP CENTURY & CLIPPER WASH/RINSE AND 2 HP MASTER PW PUMPS)		AR
	460/3/60 2.5-4 A	DE2-53	
	380/3/60 2.5-4 A	DE2-53	
	230/3/60 5.5-8 A	DE2-55	
	208/3/60 5.5-8 A	DE2-55	
8	OVERLOAD RELAY (3 HP MASTER WASH & RINSE PUMPS)		2
	460/3/60 4-6 A	DE2-54	
	380/3/60 4-6 A	DE2-54	
	230/3/60 7-10 A	DE2-56	
	208/3/60 7-10 A	DE2-56	
9	OVERLOAD RELAY (1/5 HP HEAT FAN)		2
	120/1/60 2.5-4	DE2-53	

TITLE			
CLIPPER/MASTER/CENTURY CONTROL PANEL LAYOUT			
		Philadelphia, PA 19136 (215) 824-4800 FAX (215) 624-6800	DRWN/DATE MFV 03.20.85
K	1986	8.1.03	FILE: SKETCH\SK-3623
J	7945	7.17.02	SCALE
H	7057	2.13.07	1/4
REV	ECN NO	DATE	DWG. NO. SK-3623

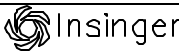


SHEET 2 OF 2

ITEM	DESCRIPTION	PART NO	QTY	ITEM	DESCRIPTION	PART NO.	QTY	ITEM	DESCRIPTION	PART NO	QTY
70	CONTACTOR (20 KW ELECT WASH TANK HEAT ONLY)		1	18	CONTACTOR (PUMPS)		1	38	PILOT LIGHT ASSY - RED	DE8-81	1
	460/3/60 30 A RES	DE1-108			CENTURY SP4	DE1-93		40	OVERLOAD BASE	DE2-80	AR
	380/3/50 50 A RES	DE1-110			GLIP & MAST (380 - 460 V) SP17	DE1-56AE		41	PUSHBUTTON ASSY, START	DE8-84	1
	230/3/60 65 A RES	DE1-111			GLIP & MAST (208 - 230 V) SP27	DE1-55AE		42	PUSHBUTTON ASSY, STOP	DE8-85	1
	208/3/60 65 A RES	DE1-111		18	RELAY BASE	DE2-37	AR	43	CONTROL BOX, NEMA 12	1442-32	1
11	CONTACTOR (30 KW ELECT RINSE TANK HEAT ONLY)		1	20	RELAY	DE2-38	AR	44	CONTROL BOX COVER, NEMA 12	1442-32	1
	460/3/60 50 A RES	DE1-110		21	RELAY HOLD DOWN SPRING	DE3-43	AR	45	GASKET, NEMA 12 BOX	8007-001	1
	380/3/50 65 A RES	DE1-111		22	DIN RAIL (35 mm)	DE9-216	1	46	NUT, NEMA 12 BOX	D312C-EF-5	4
	230/3/60 SP-47	DE1-94		23	DIN RAIL (15 mm)	DE3-42	1	47	DECAL	SK-3799	1
	208/3/60 SP-57	DE1-95		24	TERMINAL SECTION	DE3-39	AR	48	DATA DECAL	SK-3715	1
12	CONTACTOR (40 KW ELECT RINSE TANK HEAT ONLY)		1	25	TERMINAL END COVER PLATE	DE3-40	1	49	SWITCH (FWD - OFF - REV)	DE8-56	1
	460/3/60 65 A RES	DE1-111		26	TERMINAL END CLAMP	DE3-41	2	50	FUSEBLOCK		AR
	380/3/50 SP-47	DE1-94		27	TEMPERATURE CONTROL BOARD	DE8-251	AR		460 V	DE8-188	
	230/3/60 SP-77	DE1-86		28	GROUNDING STUD	D309C-6C-46	2		380 & 230 V	DE8-212	
	208/3/60 SP-77	DE1-96		29	LOCKWASHER, 1/4"	D313C-63	2		208 V	DE8-213	
73	FUSE BLOCK, 2 POLE (XFMR PRIMARY)	DE8-186	1	30	HEX NUT, 1/4-20	D312C-CC-2	2	51	FUSEBLOCK (CENTURY ONLY)		1
14	FUSE (1000 VA TRANSFORMER PRIMARY)		2	31	CONTACT BLOCK, NO	DE8-59	1		460, 380, & 230 V	DE8-186	
	460 V FNO-R-4	DE8-175		32	AUX CONTACT NC	DE1-61AE	AR		208 V	DE8-212	
	380 V FNO-R-5	DE8-178		33	AUX CONTACT NO	DE1-62AE	AR	52	FUSE		AR
	230 V FNO-R-7.5	DE8-178		34	CIRCUIT BREAKER (10A)	DE9-106	1		460 V KTK-R-30	DE8-189	
	208 V FNO-R-8	DE8-179		35	TERMINAL BLOCK ASSY	DE3-3	1		380 V JWS-40	DE8-209	
15	TIMER (ENERGY SAVER & FINAL RINSE)	DE7-28	2	36	SELECTOR SWITCH ASSY	DE8-58	2		230 V JWS-60	DE8-210	
16	TIMER (LIQUID LEVEL)	DE7-35	AR	37	CONTACT BLOCK, NC	DE8-60	1		208 V JUN-70	DE8-211	
17	CONTACTOR (CONV & DRYER BLOWER)SP4	DE1-93	AR	38	PILOT LIGHT ASSY - YELLOW	DE8-62	1	53	FUSE (CENTURY ONLY)		3
									460 V KTK-R-15	DE8-194	
									380 V KTK-R-20	DE8-195	
									230 V KTK-R-30	DE8-189	
									208 V JWS-35	DE8-208	
								54	TERMINAL BLOCK ASSY	DE3-9	1
								55	CAUTION LABEL	SK-3451	1
								56	COMPONENT MTC PLATE, NEMA 4X BOX	SK-4446	1
								57	CONTROL BOX (24 X 24 X 8), NEMA 4X	DE8-249	1



- NOT SHOWN
- ELECTRIC IMMERSION HEATER (10 KW)
 - 440-480 V, 3 PH DE13-SF73 AR
 - 380 V, 3 PH DE13-SF63
 - 220-240 V, 3 PH DE13-SF43
 - 208V, 3PH DE13-SF23
 - TRANSFORMER (DRY) FOR HEAT FANS
 - 1000 VA DE8-37
 - 1000 VA (208 & 380 V ONLY) DE8-32
 - REMOTE START/STOP PUSHBUTTON STA DE5-43AE AR
 - TEMPERATURE SENSOR DE9-252 AR

TITLE				CLIPPER/MASTER/CENTURY CONTROL PANEL LAYOUT	
		Philadelphia, PA 19135 (215) 824-4800 FAX (215) 624-8866	DRWN/DATE NFJ 03.20.83		
K	1986	8.1.03	FILE SKETCH	SK-3623	
J	1946	7.17.02	SCALE	DWG. NO.	
H	1887	2.15.01	1/4	SK-3623	
REV	EQN NO	DATE			

ITEM	DESCRIPTION	PART NO	QTY	ITEM	DESCRIPTION	PART NO	QTY	ITEM	DESCRIPTION	PART NO	QTY
10	OVERLOAD RELAY (BURNER BLOWER) 120/1/80 63-1 A	DE2-49	3	17	CONTACTOR (CONV & DRYER BLOWER) SP4	DE1-83	AR	25	TERMINAL END COVER PLATE	DE3-40	1
11	RELAY	DE2-12	2	18	CONTACTOR (PUMPS) CENTURY SP4	DE1-83	1	26	TERMINAL END CLAMP	DE3-41	2
12	RELAY BASE	DE3-25	2		CLIP & MAST (380 - 480 V) SP17	DE1-56AE		27	TEMPERATURE CONTROL BOARD	DE9-251	AR
13	FUSE BLOCK, 2 POLE (XFMR PRIMARY)	DE9-185	1		CLIP & MAST (208 - 230 V) SP27	DE1-55AE		28	GROUNDING STUD	D-308C-GC-4G	2
14	FUSE (1500 VA TRANSFORMER PRIMARY) 480 V FNQ-R-6	DE9-177	2	19	RELAY BASE	DE2-37	AR	29	LOCKWASHER, 1/4"	D313C-65	2
	380 V FNQ-R-7.5	DE9-178		20	RELAY	DE2-38	AR	30	HEX NUT, 1/4-20	D312C-GC-2	2
	230 V FNQ-R-12	DE9-182		21	RELAY HOLD DOWN SPRING	DE3-43	AR	31	CONTACT BLOCK, NO	DE9-58	1
	208 V FNQ-R-15	DE9-183		22	DIN RAIL (35 mm)	DE9-216	2	32	AUX CONTACT NC	DE1-61AE	AR
15	TIMER (ENERGY SAVER & FINAL RINSE)	DE7-28	2	23	DIN RAIL (15 mm)	DE3-42	1	33	AUX CONTACT NO	DE1-62AE	AR
18	TIMER (LIQUID LEVEL)	DE7-35	AR	24	TERMINAL SECTION	DE3-39	AR	34	CIRCUIT BREAKER (10A)	DE9-106	1
								35	TERMINAL BLOCK ASSY	DE3-3	1
								36	SELECTOR SWITCH ASSY	DE9-58	2
								37	CONTACT BLOCK, NC	DE9-60	1
								38	PILOT LIGHT ASSY - YELLOW	DE9-62	1
								39	PILOT LIGHT ASSY - RED	DE9-61	1
								40	OVERLOAD BASE	DE2-60	AR
								41	PUSHBUTTON ASSY, START	DE9-64	1
								42	PUSHBUTTON ASSY, STOP	DE9-65	1
								43	CONTROL BOX, NEMA 12	1442-32	1
								44	CONTROL BOX COVER, NEMA 12	1442-32	1
								45	GASKET, NEMA 12 BOX	9007-001	1
								46	NUT, NEMA 12 BOX	D312C-EF-5	4
								47	DECAL	SK-3789	1
								48	DATA DECAL	SK-3715	1
								49	SWTCH (FWD - OFF - REV)	DE9-58	1
								50	TERMINAL BLOCK ASSY	DE3-159	1
								51	CONTROL BOX (24 X 24 X 8), NEMA 4X	DE9-249	1
								52	COMPONENT MTG PLATE, NEMA 4X BOX	SK-4445	1
								53			
								54	TERMINAL BLOCK ASSY	DE3-9	1
								55	CAUTION LABEL	SK-3451	1

NOT SHOWN

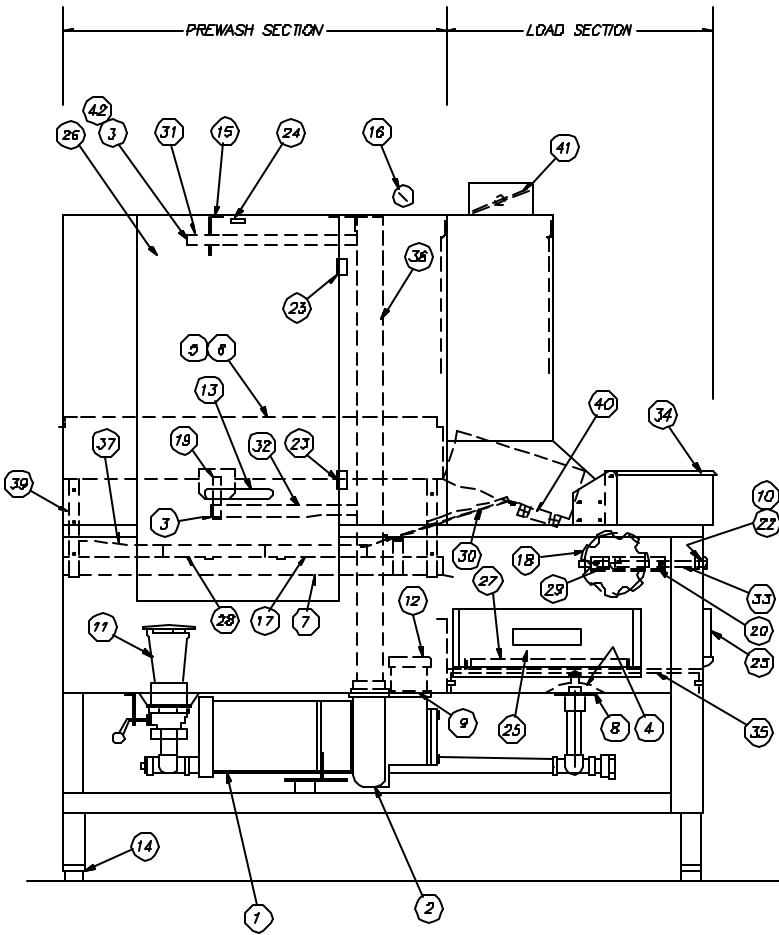
IGNITION MODULE	D2833A	3
PILOT LIGHT, WHITE	DE9-108	3
PILOT LIGHT, AMBER	DE9-109	3
DECAL, GAS BURNER LIGHTS	1430-31	3
TRANSFORMER (DRY)		1
7500 VA	DE9-44	
1500 VA (208 V ONLY)	DE9-48	
REMOTE START/STOP PUSHBUTTON STA	DE9-43AE	AR
TEMPERATURE SENSOR	DE9-252	AR

TITLE				GAS MASTER CONTROL PANEL LAYOUT			
Insinger		Philadelphia, PA 19135 (215) 824-4800 FAX (215) 824-8988		DRWN/DATE		MFJ 9.29.08	
F	1908	G.L.DJ		FILE SKETCH/ SK-4170			
E	1945	7.17.02	SCALE	DWS: NDL			
D	1857	2.16.01	1/4	SK-4170			
REV	EGN NO	DATE					

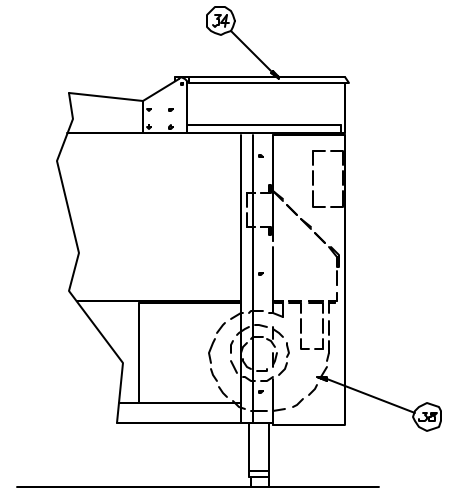
SHEET 2 OF 2

RECOMMENDED MASTER/CLIPPER 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:		
D2947RK	1	
D2946RK	3/4"	
D2475	1 1/4"	
For Electric Heat Add:		
DE13-Sfy3		Immersion Heater y = Specify Voltage




RIGHT HAND MACHINE SHOWN (STEAM)



ELECTRIC MACHINE ONLY

SHEET 1 OF 2

CLIPPER MASTER 2', 3', 4' LOAD - 3' PW		
 INSINGER MACHINE COMPANY		6245 State Rd. Tel. 215-624-4800 Philadelphia FAX: 215-624-6966 PA 19135-2996
SCALE:	1"=12	DWG. NO. SK-2605R
DRAWN:	PG 3.31.99	
APPROVED:	MFJ 3.31.99	

FILE: SKETCH\SK-2605R

 EGN #2007 3.22.04

ITEM	PART NO						PART NAME	REQ'D
	STANDARD WIDTH			31" WDE				
	STD HEIGHT	3" EX HIGH	6" EX HIGH	STD HEIGHT	3" EX HIGH	6" EX HIGH		
1	-	-	-	-	-	-	MOTOR (AS SPECIFIED)	1
2	D-2471	D-2471	D-2471	D-2471	D-2471	D-2471	PUMP	1
3	D2-554-2	D2-554-2	D2-554-2	D2-554-2	D2-554-2	D2-554-2	END PLUG	6
4	D-108	D-108	D-108	D-108	D-108	D-108	DRAIN STRAINER	1
5	1113-46	1113-46	1113-46	1113-46	1113-46	1113-46	TRACK-UPPER FRONT	1
6	1113-46	1113-46	1113-46	1113-46	1113-46	1113-46	TRACK-UPPER REAR	1
7	1113-30	1113-30	1113-30	1113-30	1113-30	1113-30	TRACK-LOWER	2
	1103-85	1103-85	1103-85	1103-85	1103-85	1103-85	TRACK-LOWER	2
	1113-29	1113-29	1113-29	1113-29	1113-29	1113-29	TRACK-LOWER	2
8	D-514	D-514	D-514	D-514	D-514	D-514	GASKET	1
9	D-530	D-530	D-530	D-530	D-530	D-530	GASKET	1
10	D-885	D-885	D-885	D-885	D-885	D-885	"O" RING-ADJ SCREW	2
11	Q64-1	Q64-1	Q64-1	Q64-1	Q64-1	Q64-1	DRAIN ASS'Y (SEE PARTS LIST)	1
12	DE-341	DE-341	DE-341	DE-341	DE-341	DE-341	SUCTN STRAINER	1
13	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	DOOR HANDLE & ROD	1
14	D-2248	D-2248	D-2248	D-2248	D-2248	D-2248	ADJUSTABLE FOOT	4
15	D-2348	D-2348	D-2348	D-2348	D-2348	D-2348	SPRAY PIPE LATCH	1
16	D-2390	D-2390	D-2390	D-2390	D-2390	D-2390	THERMOMETER	1
17	1105-83	1105-83	1105-83	1426-30	1426-30	1426-30	SCRAP SCREEN	4
18	D2-138	D2-138	D2-138	D2-138	D2-138	D2-138	BELT SPROCKET	2
19	1100-73	1100-73	1100-73	1426-105	1426-105	1426-105	GRADLE-SPRAY PIPES	1
20	1100-147	1100-147	1100-147	1100-147	1100-147	1100-147	CHANNEL FOR SHAFT	2
21	-	-	-	-	-	-	-	1
22	D2-839	D2-839	D2-839	D2-839	D2-839	D2-839	COLLAR- ADJ SCREW	2
23	D-2715	D-2715	D-2715	D-2715	D-2715	D-2715	DOOR LATCH	1
24	DE5-37	DE5-37	DE5-37	DE5-37	DE5-37	DE5-37	MAGNET SWITCH	1
25	1100-94	1100-94	1100-94	1100-94	1100-94	1100-94	DOOR-LOAD SECT	2
26	1100-28	1442-33	1442-33	1100-28	1442-33	1442-33	DOOR-P.W.	1
27	1100-37	1100-37	1100-37	1426-28	1426-28	1426-28	SCRAP SCREEN	2
								3
								4
28	1100-81	1100-81	1100-81	1426-28	1426-28	1426-28	SCRAP SCREEN	4
29	1100-146	1100-146	1100-146	1426-60	1426-60	1426-60	CONVEYER SHAFT	1
30	1100-196	1100-196	1100-196	1465-19R	1465-19R	1465-19R	BAFFLE-LOAD/PW	1
	1105-102	1105-102	1105-102	1426-91	1426-91	1426-91		
31	1100-357A	1100-357A	1100-357A	1100-357B	1100-357B	1100-357B	MANIFOLD ASS'Y-UPPER	1
32	1100-71	1100-71	1100-71	1426-49	1426-49	1426-49	MANIFOLD ASS'Y-LOWER	1
33	1100-148	1100-148	1100-148	1100-148	1100-148	1100-148	ADJUSTABLE SCREW	2
34	1100-134	1100-134	1100-134	1426-65	1426-65	1426-65	END REST	1
	1375-11	1375-11	1375-11	1426-76	1426-76	1426-76		
35	1100-38	1100-38	1100-38	1100-38	1100-38	1100-38	SCRAP SCREEN SUPPORT	1
36	1113-43	1113-43	1113-43	1113-43	1113-43	1113-43	DISCHARGE TUBE ASS Y	1
37	1100-100	1100-100	1100-100	1426-29	1426-29	1426-29	TRAY SPACER	1
	1105-96	1105-96	1105-96	1426-92	1426-92	1426-92		
38	50508	50508	50508	50508	50508	50508	BLOWER, 120 VAC	2
39	1100-50	1100-50	1100-50	1426-22	1426-22	1426-22	TRACK SUPPORT	2
40	1100-65	1100-65	1100-65	1426-21	1426-21	1426-21	TRACK SUPPORT	1
41	D2-728	D2-728	D2-728	D2-728	D2-728	D2-728	DAMPER BLADE	1
42	D3-598	D3-598	D3-598	D3-598	D3-598	D3-598	END PLUG RETAINER	6

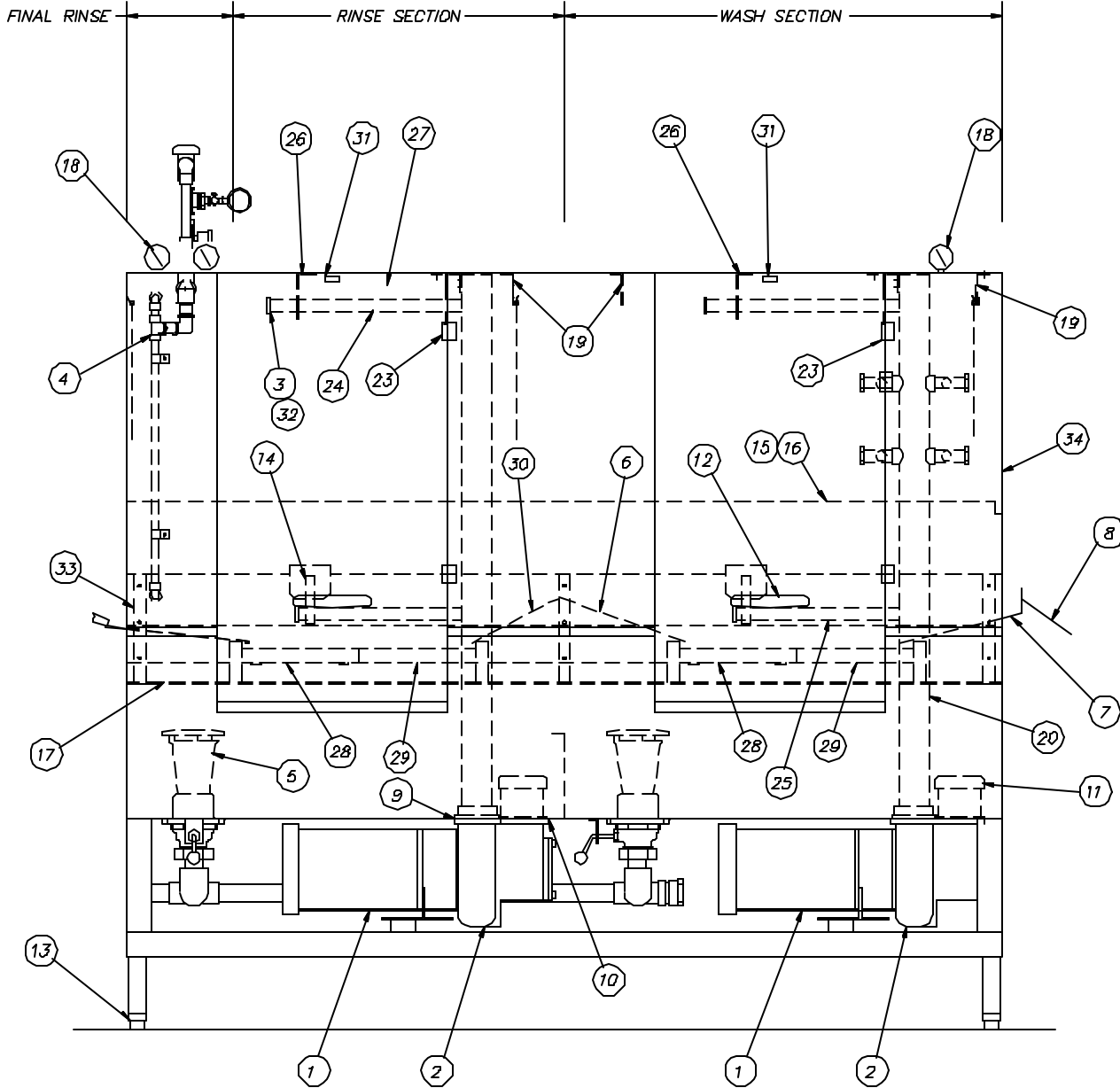
* ITEM 17 QUANTITY 1 R H MACHINE - 0 L H MACHINE
 ITEM 26 QUANTITY 1 R H MACHINE - 2 L H MACHINE

SHEET 2 OF 2

CLIPPER MASTER 2',3',4' LOAD-3' PW		
 INSINGER MACHINE COMPANY	B245 State Rd Philadelphia PA 19133-2396	Tel: 215-624-4800 FAX: 215-624-8866
	SCALE: 1"=12' DRAWN: PC 3.31.99 APPROVED: MFJ 3.31.99	DWG. NO. SK-2605R

△ EDN #2007 3.22.04

5. SKETCH/5K-2605R




RIGHT HAND MACHINE SHOWN

SHEET 1 OF 2

△ EGN #2007 3.22.04

FILE: SKETCH\SK-2610R


<i>CLIPPER</i>	
<i>WASH & RINSE SECTION</i>	
	INSINGER MACHINE COMPANY
6245 State Rd. Tel. 215-624-4800 Philadelphia PA 19135-2996 FAX: 215-624-6966	
SCALE: 1"=12	DWG NO.
DRAWN: PG 4.16.99	<i>SK-2610R</i>
APPROVED: MFJ 4.16.99	

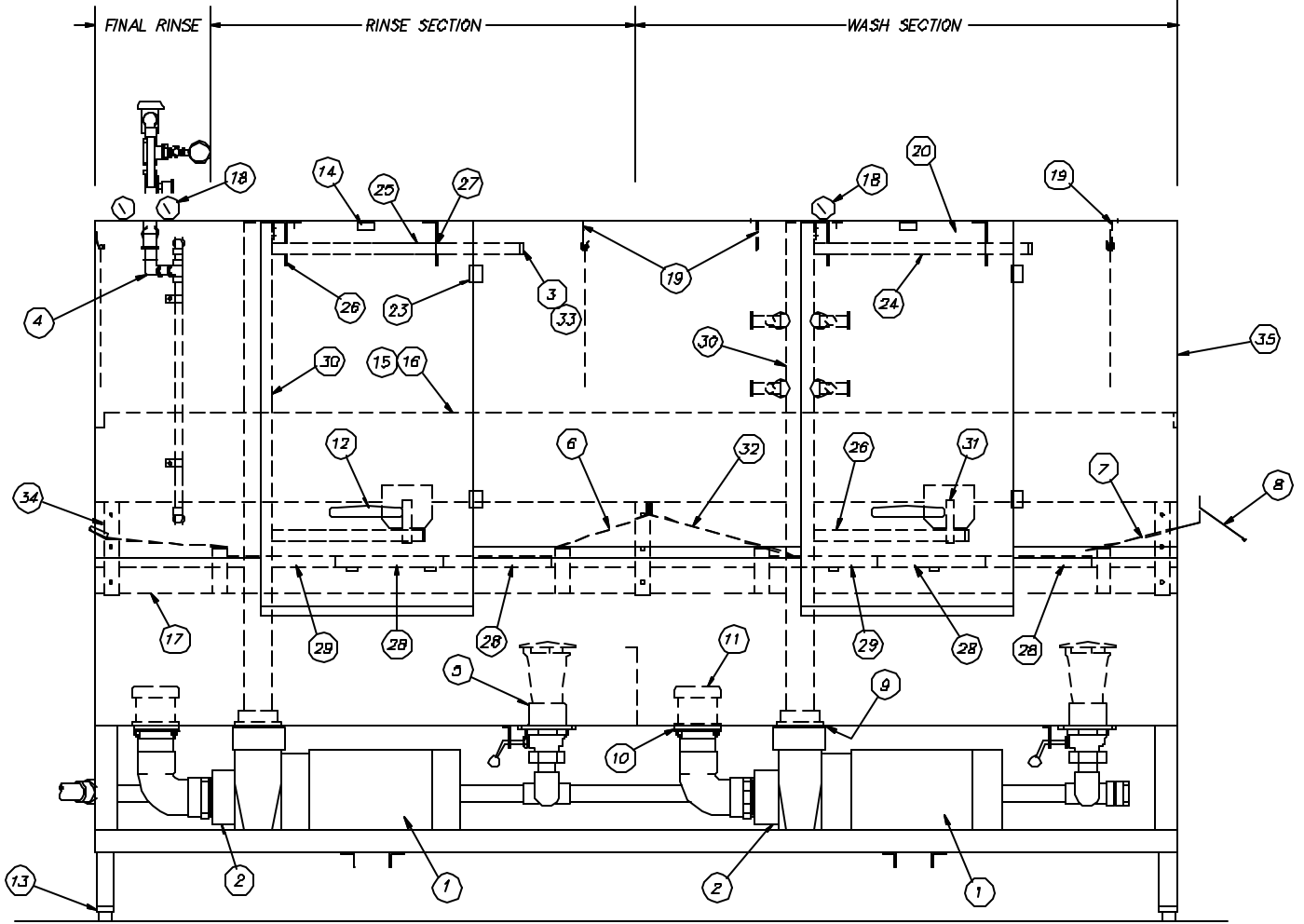
ITEM	PART NO.						PART NAME	REQ'D	
	STANDARD WIDTH			3" WIDE					
	STD HEIGHT	3" EX HIGH	6" EX HIGH	STD HEIGHT	3" EX HIGH	6" EX HIGH			
1	-	-	-	-	-	-	MOTOR (AS SPECIFIED)	2	
2	D-2471	D-2471	D-2471	D-2471	D-2471	D-2471	PUMP	2	
3	D2-654-2	D2-654-2	D2-654-2	D2-654-2	D2-654-2	D2-654-2	END PLUG	12	
4	1100-330	1100-330	1100-330	1486-20	1485-20	1486-20	FINAL RINSE ASS'Y (SEE PARTS LIST)	1	
5	954-1	954-1	954-1	954-1	954-1	954-1	DRAIN ASS'Y (SEE PARTS LIST)	2	
6	1100-183	1100-183	1100-193	1483-16R	1483-16R	1483-16R	BAFFLE-CENTER	1	R.H. MACH.
	1113-33	1113-33	1113-33	1489-22	1489-22	1489-22			L.H. MACH.
7	1100-194	1100-194	1100-194	1485-18R	1485-18R	1485-18R	BAFFLE-WASH	1	R.H. MACH.
	1113-34	1113-34	1113-34	1485-24	1485-24	1485-24			L.H. MACH.
8	1100-185	1100-185	1100-195	1428-34	1426-34	1426-34	BAFFLE-AT SPLIT	1	R.H. MACH.
	1103-106	1103-106	1103-706	1420-80	1426-80	1420-80			L.H. MACH.
9	D-614	D-614	D-614	D-614	D-614	D-614	GASKET	2	
10	D-630	D-630	D-630	D-630	D-630	D-630	GASKET	2	
11	D2-541	D2-541	D2-541	D2-541	D2-541	D2-541	SUCTION STRAINER	2	
12	RC19-20 RC19-21	RC19-20 RC19-21	RC19-21	RC19-20 RC19-21	RC19-20 RC19-21	RC19-20 RC19-21	DOOR HANDLE & ROD	2	
13	D-2248	D-2248	D-2248	D-2248	D-2248	D-2248	ADJUSTABLE FOOT	4	
14	1100-73	1100-73	1100-73	1428-103	1428-103	1428-103	GRABBLE-SPRAY PIPES	2	
15	1113-48	1113-48	1113-48	1113-48	1113-48	1113-48	TRACK-UPPER FRONT	1	
16	1113-49	1113-49	1113-49	1113-49	1113-49	1113-49	TRACK-UPPER REAR	1	
17	1100-185	1100-185	1100-185	1100-185	1100-185	1100-185	TRACK-LOWER	2	R.H. MACH.
	1113-28	1113-28	1113-28	1113-28	1113-28	1113-28			L.H. MACH.
18	D-2390	D-2390	D-2390	D-2390	D-2390	D-2390	THERMOMETER	3	
19	1100-16R	1100-16R	1100-16R	1486-13R	1485-13R	1486-13R	BAFFLE-TOP	3	
20	1113-41A	1113-41B	1113-41C	1113-41A	1113-41B	1113-41C	DISCHARGE TUBE ASSY	2	
21	-	-	-	-	-	-	-	-	
22	-	-	-	-	-	-	-	-	
23	D-2716	D-2716	D-2716	D-2716	D-2716	D-2716	DOOR LATCH	4	
24	1100-359B	1100-359B	1100-359B	1100-359D	1100-359D	1100-359D	MANIFOLD ASSY UPPER	2	
25	1100-71	1100-71	1100-71	1428-49	1426-49	1426-49	MANIFOLD ASSY-LOWER	2	
26	D-2349	D-2349	D-2349	D-2349	D-2349	D-2349	SPRAY PIPE LATCH	2	
27	1100-28	1442-36	1442-36	1100-28	1442-36	1442-36	DOOR	2	
28	1100-81	1100-81	1100-81	1428-28	1428-28	1428-28	SCRAP SCREEN	2	
29	1104-73	1104-73	1104-73	1428-31	1428-31	1428-31	SCRAP SCREEN W/DR DISCHARGE	2	
30	1100-182	1100-182	1100-192	1483-17R	1483-17R	1483-17R	BAFFLE-CENTER	1	R.H. MACH.
	1100-183	1100-183	1100-193	1483-162	1483-162	1483-162			L.H. MACH.
31	DE5-37	DE5-37	DE5-37	DE5-37	DE5-37	DE5-37	MAGNET SWITCH	2	
32	D3-658-2	D3-658-2	D3-658-2	D3-658-2	D3-658-2	D3-658-2	END PLUG RETAINER	12	
33	1100-50	1100-50	1100-50	1428-31	1426-21	1426-21	TRACK SUPPORT	3	
34	1100-15	-	-	1428-41	-	1442-12	GASKET	2	

SHEET 2 OF 2


 ECON #007 3.22.04

TCH/SK-2610R

CLIPPER WASH & RINSE SECTION	
 INSINGER MACHINE COMPANY	
8245 State Rd. Tel. 215-624-4800 Philadelphia PA 19135-2996 FAX: 215-824-6968	
SCALE: 1"=12"	DWG. NO.
DRAWN: PG 4.16.99	SK-2610R
APPROVED: MFJ 4.16.99	




RIGHT HAND MACHINE SHOWN

SHEET 1 OF 2

△ EQN #2007 3.22.04

FILE: SKETCH\SK-2846

MASTER WASH & RINSE SECTION	
 INSINGER MACHINE COMPANY	
6245 State Rd. Tel. 215-624-4800 Philadelphia FAX: 215-624-6966 PA 19135-2996	
SCALE: 1"=12	DWG. NO
DRAWN: PG 4.9.99	SK-2846
APPROVED: MFJ 4.9.99	

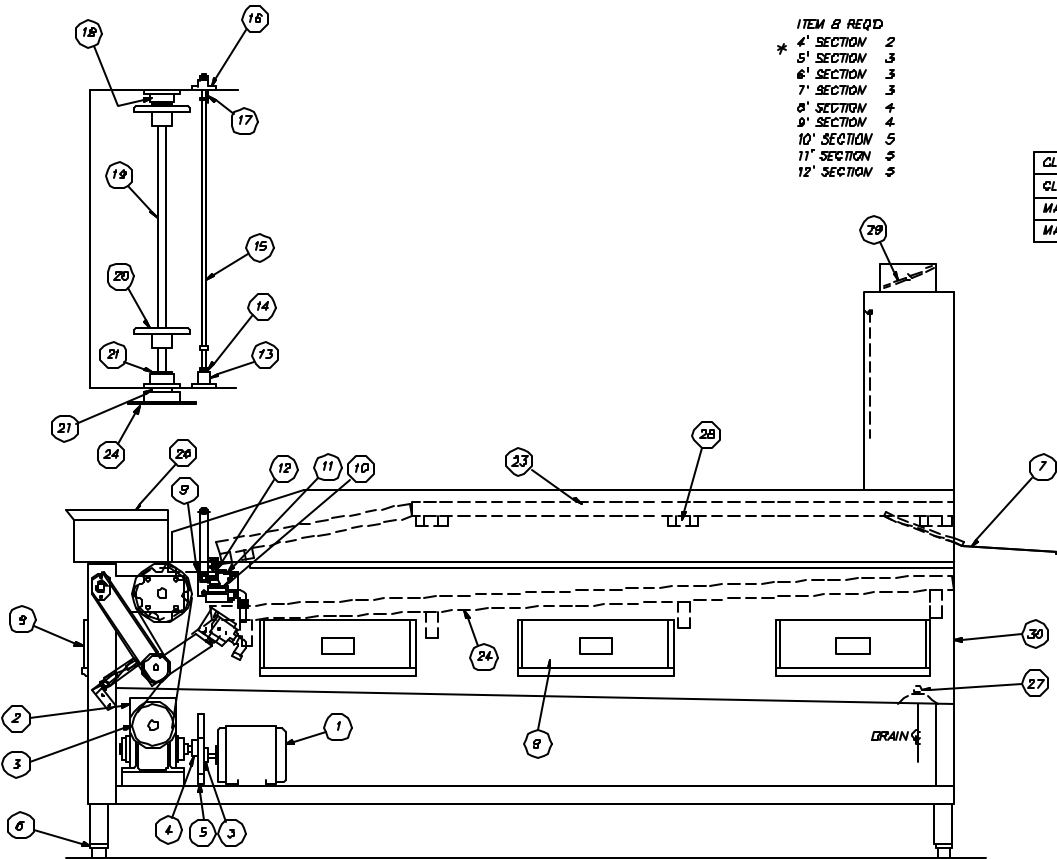
ITEM	PART NO						PART NAME	REQ'D	
	STANDARD WIDTH			31" WIDE					
	STD HEIGHT	3" EX HIGH	6" EX HIGH	STD HEIGHT	3" EX HIGH	6" EX HIGH			
1	-	-	-	-	-	-	MOTOR (AS SPECIFIED)	2	
2	D2-2603	D2-2603	D2-2603	D2-2603	D2-2603	D2-2603	PUMP	2	
3	D2-554-2	D2-554-2	D2-554-2	D2-554-2	D2-554-2	D2-554-2	END PLUG	14	
4	1100-318	1100-318	1100-318	1100-318	1100-318	1100-318	FINAL RINSE ASS'Y (SEE PARTS LIST)	1	
5	954-1	954-1	954-1	954-1	954-1	954-1	DRAIN ASS'Y (SEE PARTS LIST)	2	
6	1104-71	1104-71	1104-71	1426-37	1426-37	1426-37	BAFFLE-CENTER	1	R.H. MACH
	1105-138	1105-138	1105-138	1426-87	1426-87	1426-87			L.H. MACH
7	1104-72	1104-72	1104-72	1426-38	1426-38	1426-38	BAFFLE-WASH	1	R.H. MACH
	1105-140	1105-140	1105-140	1426-89	1426-89	1426-89			L.H. MACH
8	1100-195	1100-195	1100-195	1426-34	1426-34	1426-34	BAFFLE-AT SPLIT	1	R.H. MACH
	1105-106	1105-106	1105-106	1426-90	1426-90	1426-90			L.H. MACH
9	1104-67	1104-67	1104-67	1104-67	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	D2-541	D2-541	D2-541	SUCTION STRAINER	2	
12	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	RC15-20 RC15-21	DOOR HANDLE & ROD	2	
13	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	MAGNET/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	1104-51	1104-51	1104-51	TRACK-UPPER REAR	1	
17	1104-39	1104-39	1104-39	1104-39	1104-39	1104-39	TRACK-LOWER	2	R.H. MACH
	1105-135	1105-135	1105-135	1105-135	1105-135	1105-135			L.H. MACH
18	D-2390	D-2390	D-2390	D-2390	D-2390	D-2390	THERMOMETER	3	
19	1104-10R	1104-10R	1104-10R	1426-33	1426-33	1426-33	BAFFLE-TOP	3	
20	1100-28	1442-35	1442-35	1100-28	1442-35	1442-35	DOOR	2	
21	-	-	-	-	-	-	-	-	
22	-	-	-	-	-	-	-	-	
23	D-2715	D-2715	D-2715	D-2715	D-2715	D-2715	DOOR LATCH	4	
24	1104-95A	1104-95A	1104-95A	1104-95C	1104-95C	1104-95C	MANIFOLD ASS'Y-UPPER-WASH	1	
25	1104-96A	1104-96A	1104-96A	1104-96C	1104-96C	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-2349	D-2349	D-2349	SPRAY PIPE LATCH	2	
28	1100-61	1100-61	1100-61	1426-28	1426-28	1426-28	SCRAP SCREEN	4	
29	1104-73	1104-73	1104-73	1426-31	1426-31	1426-31	SCRAP SCREEN W&R DISCHARGE	2	
30	1104-64A	1104-64B	1104-64C	1104-64A	1104-64B	1104-64C	DISCHARGE TUBE ASS'Y	2	
31	1100-73	1100-73	1100-73	1426-105	1426-105	1426-105	CRADLE-SPRAY PIPES	2	
32	1104-45	1104-45	1104-45	1426-40	1426-40	1426-40	BAFFLE-CENTER	1	R.H. MACH
	1105-139	1105-139	1105-139	1426-88	1426-88	1426-88			L.H. MACH
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	3	
35	1100-15	-	-	1426-41	-	1442-12	GASKET	2	

SHEET 2 OF 2

ECN #2007 3.22.04

SKETCH\SK-2846

MASTER WASH & RINSE SECTION	
 INSINGER MACHINE COMPANY	6245 State Rd. Tel 215-624-4800 Philadelphia PA 19135-2996 FAX: 215-624-6966
SCALE: 1"=12"	DWG. NO <div style="font-size: 2em; font-weight: bold;">SK-2846</div>
DRAWN: PG 4 9 99	
APPROVED MFJ 4 9 99	




ITEM & REQD
 * 4' SECTION 2
 5' SECTION 3
 6' SECTION 3
 7' SECTION 3
 8' SECTION 4
 9' SECTION 4
 10' SECTION 5
 11' SECTION 5
 12' SECTION 5

RIGHT HAND MACHINE SHOWN

FILE: SKETCH\SK-2607

ECN #2007 3.22.04

ITEM	PART NO.		PART NAME	REQ'D
	STD WIDTH	JT" WIDE		
1	-	-	MOTOR (AS SPECIFIED)	7
2	D2344A	D2344A	REDUCER	1
3	818-18	818-18	PULLEY-MOTOR	1
4	D-2527	D-2527	PULLEY-REDUCER	1
5	D2-682	D2-682	DRIVE BELT	1
6	D-2248	D-2248	ADJUSTABLE FOOT	4
CLIPPER R.H.	1100-117	1465-15R	BAFFLE	1
CLIPPER L.H.	1105-103	1465-21		
MASTER R.H.	1104-44	1426-30		
MASTER L.H.	1105-137	1426-36		
8	1100-84	1100-84	CLEANOUT DOOR	*
9	1100-110P	1100-73D	MTR BRACKET-MICROSWITCH	7
10	D-2216A	D-2216A	MICROSWITCH	1
11	1100-132	1100-132	SPRING-MICROSWITCH	1
12	1100-131	1100-73T	ACTUATOR-MICROSWITCH	1
13	D2-141	D2-141	BEARING-STOP BAR-FRONT	1
14	D2-839	D2-839	COLLAR-STOP BAR	2
15	1100-126	1426-84	STOP BAR	1
16	1100-124	1100-724	BEARING-STOP BAR-REAR	7
17	1100-126	1100-726	BRACKET-STOP BAR ADJ	1
18	1100-119	1100-719	BEARING BKT-DRIVE SHAFT	2
19	1100-118	1426-62	DRIVE SHAFT-CONVEYOR BELT	1
20	D2-138	D2-138	SPROCKET-CONVEYOR BELT	2
21	1100-122	1100-122	SPACER-DRIVE SPROCKET	2
22	D-2333	D-2333	CHAIN SPROCKET-CLIPPER	1
	D-2388A	D-2388A	CHAIN SPROCKET-MASTER	
23	1113-47	1113-47	UPPER TRACK-FRONT & REAR	1 EA
24	1100-105	1100-105	LOWER TRACK-FRONT & REAR	1 EA
25	-	-	CHAIN (NOT SHOWN)	1
26	1100-134	1426-85	END REST	7
27	D106	D106	DRAIN COVER	7
28	1100-55	1426-21	TRACK SUPPORT	*
29	D2-728	D2-728	DAMPER BLADE	1
30	1100-13	1426-41	GASKET	7

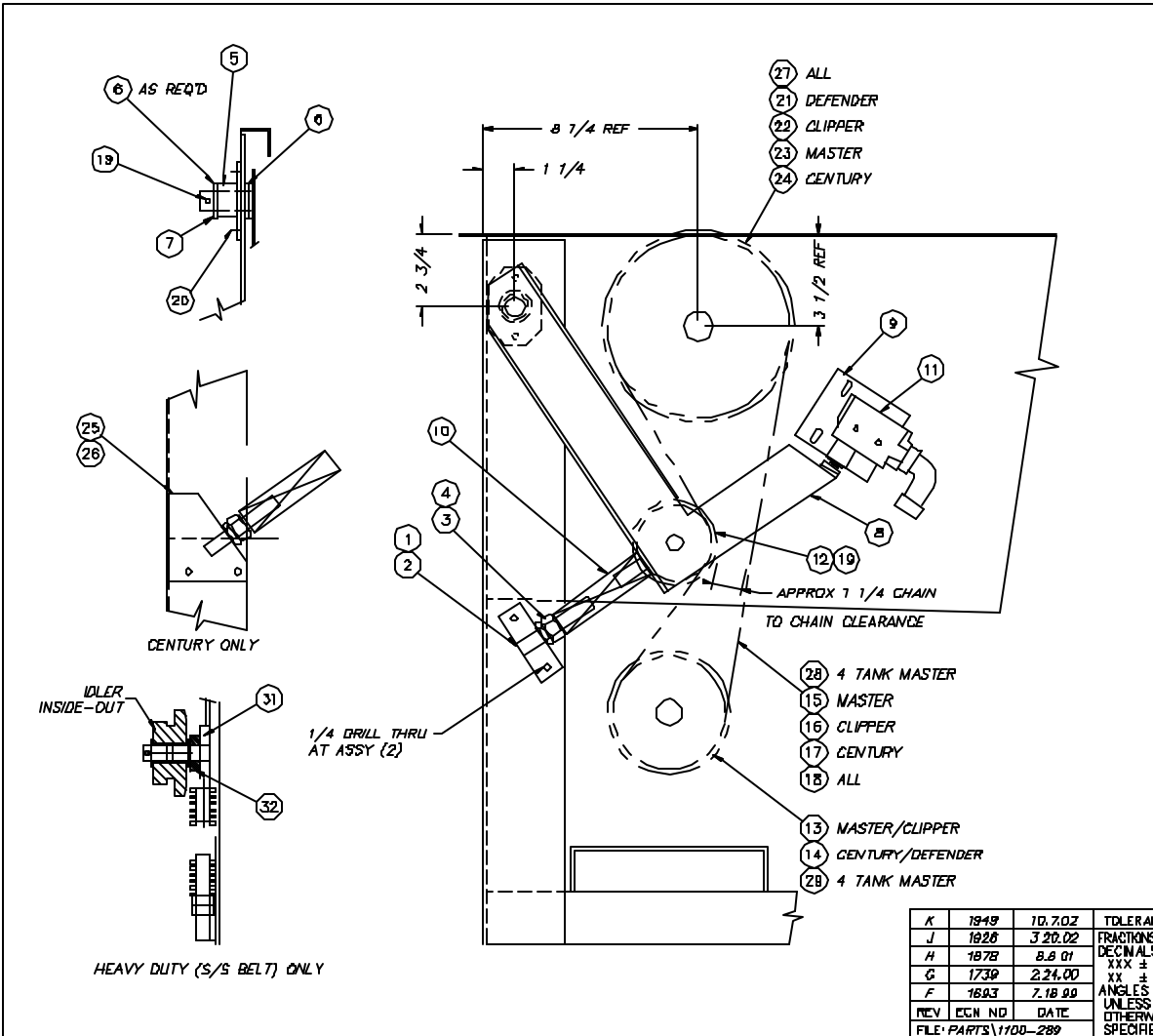
CLIPPER \ MASTER 4', 5', 6', 7', 8', 9', 10', 11', 12' UNLOAD SECTION		
 INSINGER MACHINE COMPANY		6245 State Rd. Tel. 215-824-4800 Philadelphia PA 19135-2998 FAX: 215-624-5966
SCALE	1"=12'	DWG NO.
DRAWN	PG 4 12 99	SK-2607
APPROVED	MFJ 4 12 99	

ITEM	PART NO.	DESCRIPTION	QTY.
1	1100-285	ADJUSTABLE SPRING STOP	1
2	1100-309	SHIM	1
3	D312C-LC-2	1/2-13 HEX NUT	1
4	D312C-LC-1	1/2-13 JAM NUT	1
5	1100-286	ATC PIVOT CUP	1
6	D2-525	1/8 THK SPACER	3
7	D3-811A	1/16 THK WASHER	1
8	1100-287	ATC ARM WELDMENT	1*
9	1100-288	MICROSWITCH BRACKET	1
10	D351	SPRING	1
11	D2215A	MICROSWITCH	1
12	1100-310	IDLER SPROCKET	1
13	D2714	60B20F 1" SPROCKET	1
14	D2760	60B13F 1" SPROCKET	1
15	D308B-60	ROLLER CHAIN, 48 3/4 LG	1
16	D308B-60	ROLLER CHAIN, TBD LG	1
17	D308B-60	ROLLER CHAIN, 49" LG	1
18	D308B-60CL	ROLLER CHAIN CONN. LINK	1
19	D311-22	S/S GITTER PIN, 1/8 x 1 1/4	2
20	D308C-GC-5	1/4-20 x 5/8 LG WELD STUD	2
21	D2-146A	60B29 1 1/8 SPROCKET	1
22	D-2333	60B36F 1 1/8 SPROCKET	1
23	D2388A	60B26F 1 1/8 SPROCKET	1
24	D2761	60B30F 1 1/8 SPROCKET	1
25	1100-311	ADJUSTABLE SPRING STOP	1
26	1100-312	SHIM	1
27	D302-2	#15 WOODRUFF KEY (1/4 X 1)	1
28	D308B-60	ROLLER CHAIN 47 1/4 LG	1
29	D2875	60B20F 1" SPROCKET	1
30	D308B-60HL	CHAIN OFFSET LINK (IF NEEDED)	1
31	1100-378	ARM WELDMENT (HEAVY BELT)	1*
32	1100-386	SPACER - H.D. ARM (S/S BELT)	1*

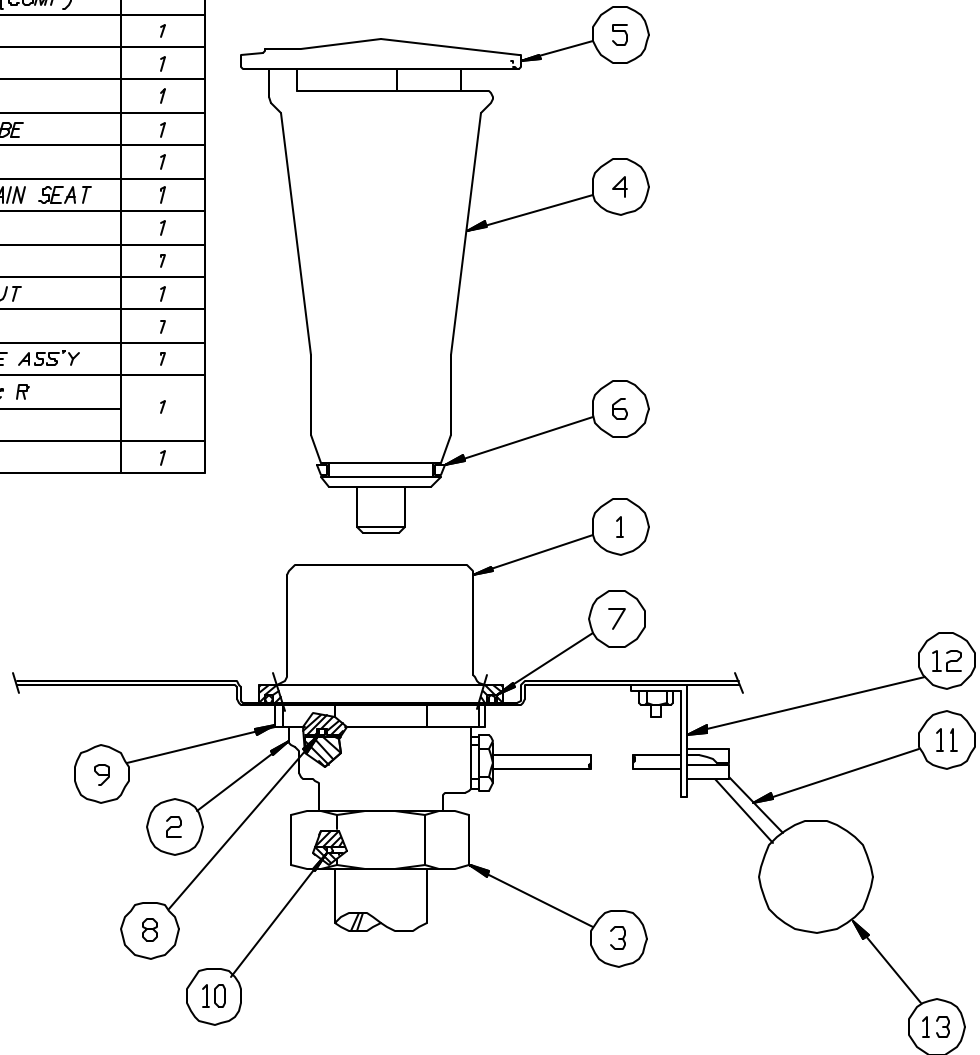
*ITEM 8 REPLACED BY ITEMS 31 & 32 FOR S/S BELT APPS
 RIGHT HAND SHOWN LEFT HAND OPPOSITE
 DRAWN TO SCALE FOR MASTER MACHINE

K	1849	10.7.02	TOLERANCES
J	1926	3.20.02	FRACTIONS 1/164
H	1878	8.8.01	DECIMALS
G	1739	2.24.00	XXX ± .01
F	1693	7.18.90	ANGLES ± 1/2°
REV	ECN NO	DATE	UNLESS OTHERWISE SPECIFIED
FILE	PARTS\1100-289		

TITLE	CONVEYOR OVERLOAD SHUTOFF ASSEMBLY	NEXT ASSY REQ'D	DWG. NO
MATL	-	SCALE 1"=4"	1100-289
		Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-8988	USED ON FLO/HTS DRWN/DATE JRS 4.75.01




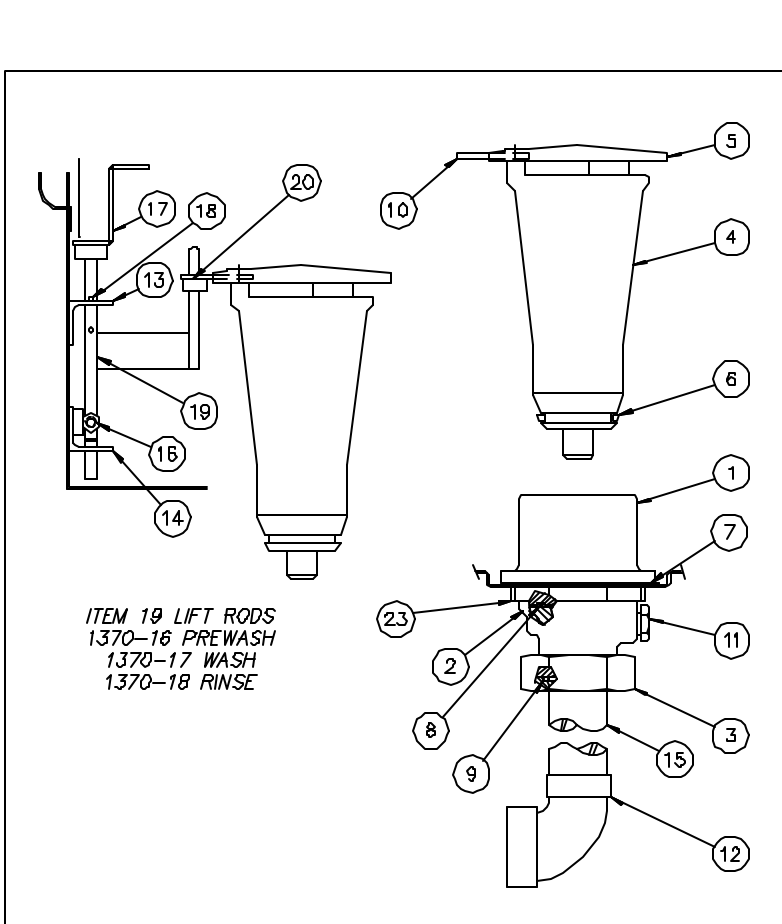
ITEM	PART NO.	NAME OF PART	REQ'D
	954-50	DRAIN ASS'Y (COMP)	-
1	954-50A	UPPER BODY	1
2	954-50B	LOWER BODY	1
3	954-50C	NUT	1
4	954-50D	OVERFLOW TUBE	1
5	D-193	SKIMMER CAP	1
6	D2-557	"V" SEAL-DRAIN SEAT	1
7	954-9	FLAT WASHER	1
8	D2-549	"D" RING	1
9	D-305	DRAIN JAM NUT	1
10	D2-550	"D" RING	1
11	1100-79	DRAIN HANDLE ASS'Y	1
12	954-8	BRACKET W & R	1
	954-8A	BRACKET P.W.	
13	D2-507	BALL	1



△ EGN #2007 3 22.04


FILE: SKETCH\SK-2613

INSINGER DRAIN ASSEMBLY		
 INSINGER MACHINE COMPANY		
6245 State Rd. Tel. 215-624-4800 Philadelphia FAX: 215-624-6966 PA 19135-2996		
SCALE:	1=1	DWG. NO.
DRAWN:	FG 4.19.99	SK-2613
APPROVED:	MFJ 4.19.9	

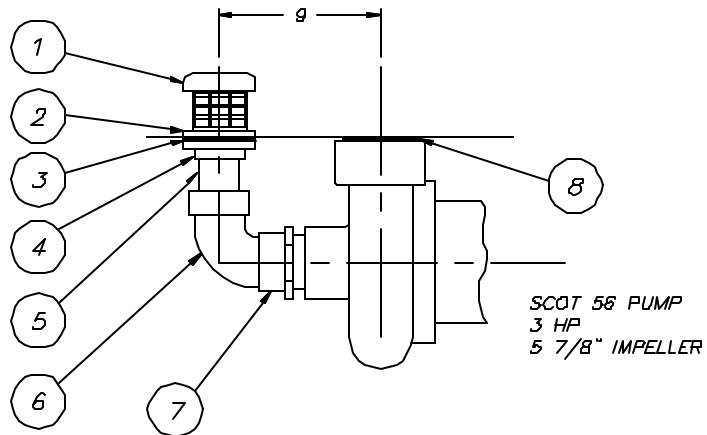
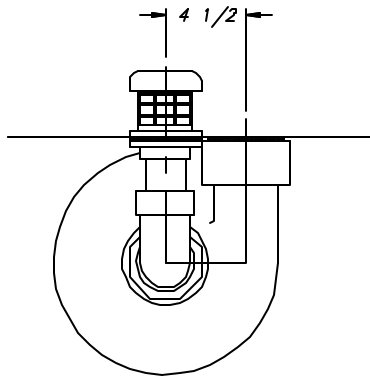



ITEM 19 LIFT RODS
1370-16 PREWASH
1370-17 WASH
1370-18 RINSE

ITEM	PART NO.	DESCRIPTION	QTY.
1	954-50A	UPPER VALVE BODY	1
2	954-50B	LOWER VALVE BODY	1
3	954-50C	O-RING NUT	1
4	954-50D	OVERFLOW TUBE	1
5	1370-3	SKIMMER CAP (MODIFIED)	1
6	D2-557	*V* SEAL	1
7	954-9	SEALING WASHER	1
8	D2-549	O RING	1
9	D2-550	O RING	2
10	1370-5	SKIMMER CAP TAB	1
11	1370-11	PLUG	1
12	D316A-H3-H1	90° ELL 1-1/2 C x 1-1/2 FPT	1
13	1370-6	UPPER BRACKET	1
14	1370-7	LOWER BRACKET	1
15	D-207A-B12-17	CU TUBE, 1-1/2 CTS x 4-1/4 LG	1
16	D2738	SPRING PLUNGER	1
17	1370-30	LIFT HANDLE	1
18	D311-8	ROLL PIN, 1/8 DIA	2
19	SEE TABLE	LIFT ROD	1
20	D2739	CLAMP COLLAR, 1/4 DIA	1
21	SK 3476	DECAL	1
22	1370-19	INSTALLATION NOTES	X
23	D305A	DRAIN JAM NUT	1

			TOLERANCES	TITLE	DRAIN ASSY - SELF CLOSING	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/64		MASTER STEAM HEAT	REQ'D 3	1370-20
			DECIMALS				
C	1989	7.7.03	XXX ± .005	MAT'L	NOTED	SCALE	USED ON
B	1268	09.22.95	.XX ± .01			1=4	MASTER
A	1051	8.18.94	ANGLES ±1/2°				DRWN/DATE
REV	ECN NO	DATE	UNLESS OTHERWISE SPECIFIED	 Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-6986			MFJ
FILE: PARTS\1370-20							10.16.92


ITEM	PART NO.	SIZE	DESCRIPTION	QTY.
1	D2-541	A	SUCTION STRAINER	1
2	D2-135	A	STRAINER FLANGE	1
3	D-530	A	GASKET	1
4	1104-68	A	TANK FLANGE	1
5	D207A-B21-11	-	COPPER TUBING 3" O.T.S X 2 3/4 LG.	1
6	D316A-L3-L4	-	90° FTG. ELBOW 3" C	1
7	D317A-L2-L3	-	ADAPTER 3" MIPS X 3" C	1
8	1104-67	A	GASKET	1

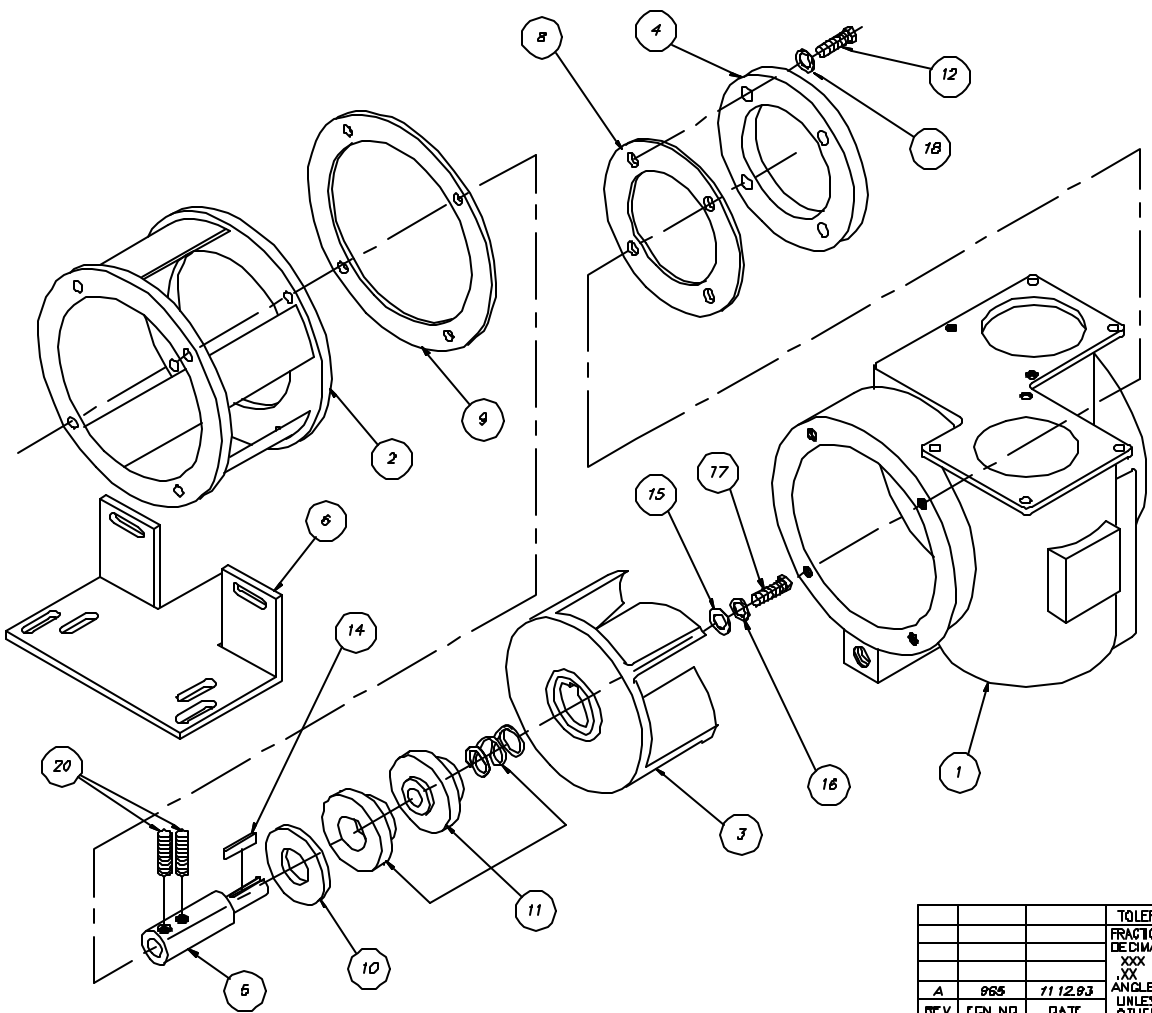


REV	ECN NO	DATE	TOLERANCES	TITLE	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/64	SUCTION LINE	REQ'D 1	1104-69
			DECIMALS	ASSEMBLY		
			.XXX ± .005	MAT'L	SCALE 1=8	USED ON MASTER
			.XX ± .01	NOTED		
			ANGLES ±1/2°	 Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-6966	DRWN/DATE	
			UNLESS OTHERWISE SPECIFIED		PHILIP	
FILE: PARTS\1104-69						10.7.87

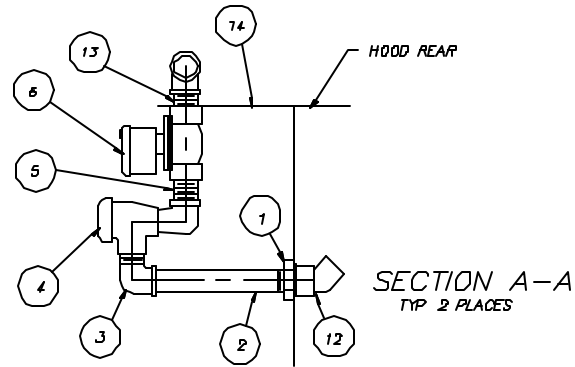
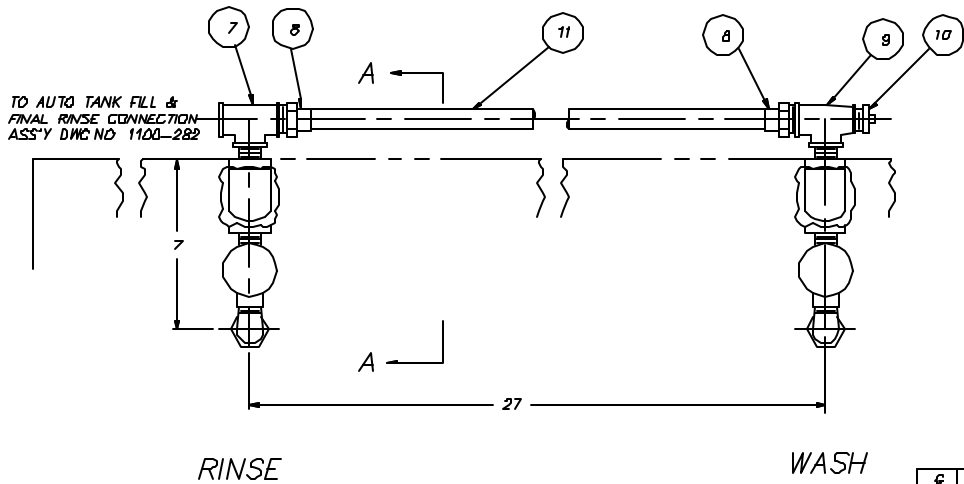
ITEM	PART NO.	DESCRIPTION	QTY.
1	UP-1	PUMP BODY	1
2	D-435	ADAPTER	1
3	NOTED	IMPELLER	1
4	SUP-3	END COVER PLATE	1
5	D3-805	PUMP SHAFT	1
6	D3-816	MOUNTING BRACKET	1
7			
8	UP-8	END COVER GASKET	1
9	UP-9	HOUSING COVER GASKET	1
10	UP-13	FLINGER	1
11	UP-15	CERAMIC SEAL	1
12	D309C-JC-6A	END COVER BOLT	12
13			
14	D302-1	KEY	1
15	D3-824A	WASHER	1
16	D313C-J2	LOCKWASHER	1
17	D309C-JC-5A	IMPELLER BOLT	1
18	D313A-J1	WASHER	12
19			
20	D309C-GC-2H	SET SCREW	2

NOTE:
 FOR COMPLETE ASSEMBLY USE PART NO. D2471A
 IMPELLER PART NO. & SIZE
 SUP-2A 4 1/2" (MODULAR, SPEEDER, SUPER W & R)
 SUP-9A 6" (ADMIRAL WASH, CLIPPER/MASTER/CENTURY PW)

			TOLERANCES	TITLE	PUMP ASSEMBLY	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/64	MODEL 2 1/2 SUP		REQ'D	1 SK-2456A
			DECIMALS			SCALE	USED ON
			.XXX ± .000			FULL	
			.XX ± .01				
			ANGLES ±1/2°				
			UNLESS OTHERWISE SPECIFIED				
REV	ECN NO	DATE			Philadelphia, PA 19135 (215) 824-4800 FAX (215) 824-8986		DRWN/DATE PC 8.28.94
A	985	11.12.93	FILE SKETCH SK-2438A				

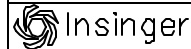


ITEM	PART NO.	SIZE	DESCRIPTION	QTY.
1	D326F-D1	-	LOCKNUT 1/2 IPS	2
2	D314F-DL-62	-	NIPPLE 1/2 IPS X 6 1/2 L O E	2
3	D318F-D1-D2	-	90° STREET ELL 1/2 IPS	4
4	D-2241	-	VACUUM BREAKER 1/2 IPS	2
5	D314F-DC-00	-	CLOSE NIPPLE 1/2 IPS	2
6	D2930	-	SOLENOID VALVE 1/2 IPS 24V	2
7	D320F-E1E1D1	-	TEE 3/4 FIPS X 3/4 FIPS X 1/2 FIPS	1
8	D317A-E3-E2	-	ADAPTER 3/4MIP5 X 3/4 C	2
9	D320F-E1D1D1	-	TEE 3/4 FIPS X 1/2 FIPS X 1/2 FIPS	1
10	D328F-D2-A	-	PIPE PLUG 1/2 IPS	1
11	D207A-B6-94	-	COPPER TUBING 3/4 CTS X 23 1/2	1
12	D315A-D3-D1	-	45° ELBOW 1/2 FIPS X 1/2 C	2
13	D374F-DA-72	-	NIPPLE 1/2 IPS X 1 1/2 ALL THREAD	2
14	951-79	A	BRACKET, PIPE SUPPORT	2



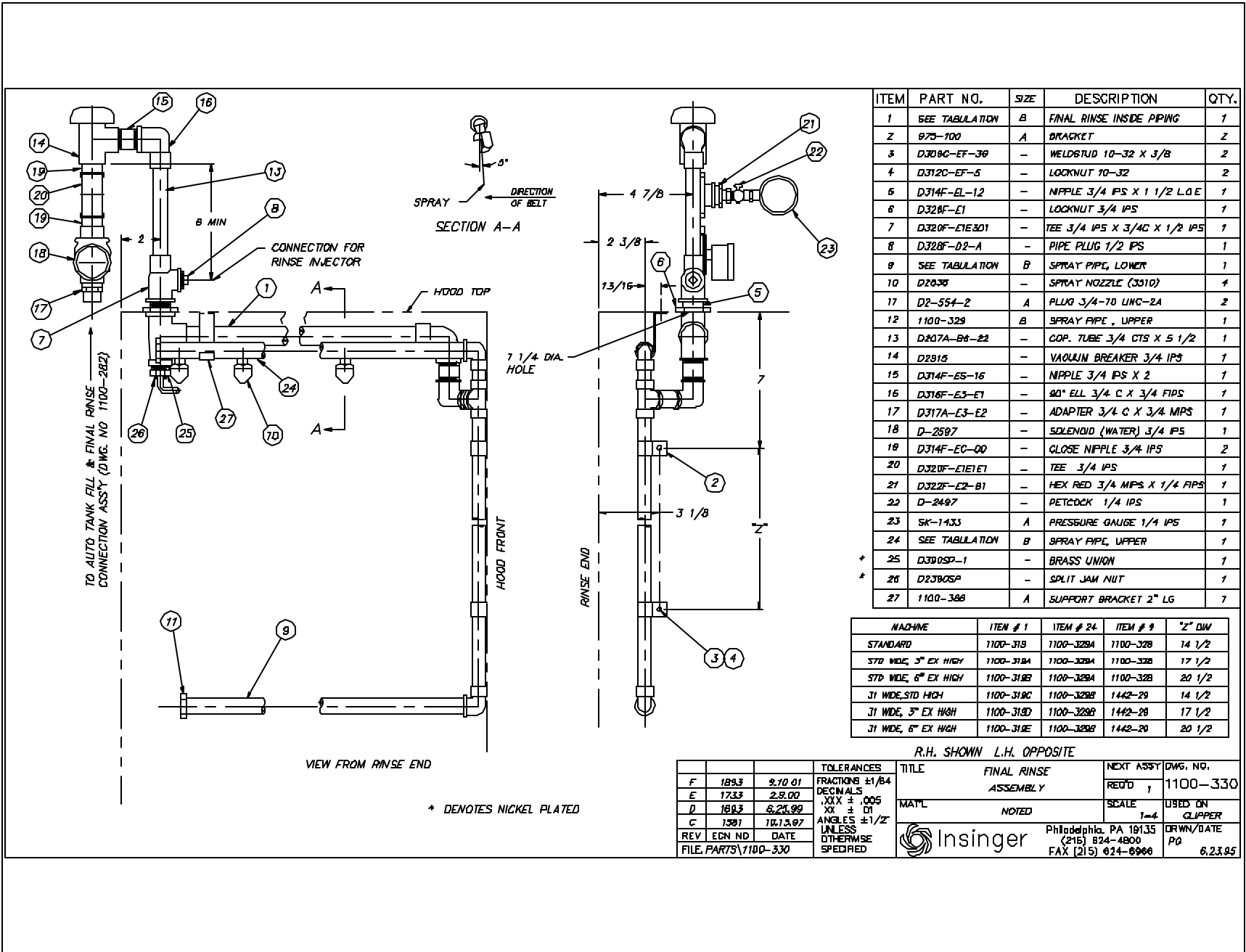
NOTE:
FOR COLD WATER THERMOSTAT PIPING
SEE DWG. NO. 7100-87.

REV	EDN NO	DATE	TOLERANCES	TITLE	SCALE	DRWN/DATE
2007	3.22.04		FRACTIONS ±1/64	AUTO TANK FILL ASSEMBLY	1100-281	
1886	10.02.03		DECIMALS			
1883	9.10.01		XXX ± .005			
D	1316	11.27.05	XX ± .01			
C	647	4.21.92	ANGLES ±1/2°			
			UNLESS OTHERWISE SPECIFIED			



Philadelphia, PA 19135
(215) 824-4800
FAX (215) 824-8966

REV	EDN NO	DATE	TOLERANCES	TITLE	SCALE	DRWN/DATE



ITEM	PART NO.	SIZE	DESCRIPTION	QTY.
1	SEE TABULATION	B	FINAL RINSE INSIDE PIPING	1
2	Ø75-100	A	BRACKET	2
3	D309C-EF-3Ø	-	WELDSTUD 10-32 X 3/8	2
4	D312C-EF-5	-	LOCKNUT 10-32	2
6	D314F-EL-12	-	NIPPLE 3/4 IPS X 1 1/2 L.O.E	1
8	D328F-E1	-	LOCKNUT 3/4 IPS	1
7	D320F-E1E1Ø1	-	TEE 3/4 IPS X 3/4 X 1/2 IPS	1
8	D328F-D2-A	-	PIPE PLUG 1/2 IPS	1
Ø	SEE TABULATION	B	SPRAY PIPE, LOWER	1
10	D2Ø3Ø	-	SPRAY NOZZLE (331Ø)	4
17	D2-554-2	A	PLUG 3/4-7Ø UNC-2A	2
12	110Ø-32Ø	B	SPRAY PIPE, UPPER	1
13	DØ7A-BØ-22	-	COP. TUBE 3/4 CTS X 5 1/2	1
14	D2Ø15	-	VALVING BREAKER 3/4 IPS	1
15	D314F-E5-16	-	NIPPLE 3/4 IPS X 2	1
16	D318F-E3-E1	-	90° ELL 3/4 C X 3/4 FIPS	1
17	D317A-E3-E2	-	ADAPTER 3/4 C X 3/4 MIP	1
18	D-25Ø7	-	SOLENOID (WATER) 3/4 IPS	1
18	D314F-EC-ØØ	-	CLOSE NIPPLE 3/4 IPS	2
20	D32ØF-E1E1E1	-	TEE 3/4 IPS	1
21	D322F-E2-B1	-	HEX RED 3/4 MIP X 1/4 FIP	1
22	D-24Ø7	-	PETCOCK 1/4 IPS	1
23	SK-1433	A	PRESSURE GAUGE 1/4 IPS	1
24	SEE TABULATION	B	SPRAY PIPE, UPPER	1
* 25	D3ØØSP-1	-	BRASS UNION	1
* 26	D23ØØSP	-	SPLIT JAM NUT	1
27	110Ø-3ØØ	A	SUPPORT BRACKET 2" LG	7

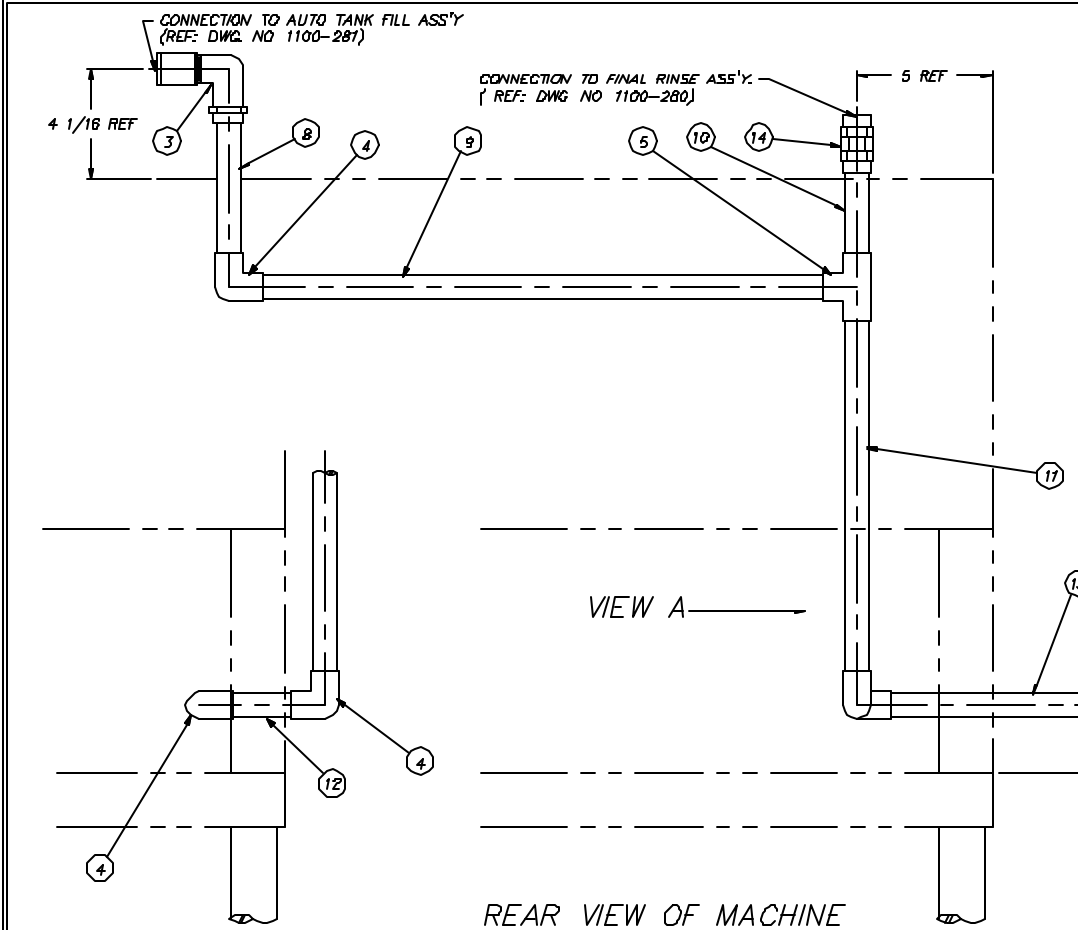
MACHINE	ITEM # 1	ITEM # 24	ITEM # 9	"Z" DW
STANDARD	110Ø-31Ø	110Ø-328A	110Ø-328	14 1/2
Ø7Ø WIDE, 3" EX HIGH	110Ø-318A	110Ø-328A	110Ø-328	17 1/2
Ø7Ø WIDE, 6" EX HIGH	110Ø-318B	110Ø-328A	110Ø-328	20 1/2
31 WIDE, STD HIGH	110Ø-319C	110Ø-328B	1442-2Ø	14 1/2
31 WIDE, 3" EX HIGH	110Ø-318D	110Ø-328B	1442-2Ø	17 1/2
31 WIDE, 6" EX HIGH	110Ø-318E	110Ø-328B	1442-2Ø	20 1/2

R.H. SHOWN		L.H. OPPOSITE	
TITLE	FINAL RINSE ASSEMBLY	NEXT ASSY	DWG. NO.
MAT'L	NOTED	REQ'D	1
INSINGER		SCALE	USED ON
Philadelphia, PA 19135 (215) 824-4800		1=4	CLIPPER
FAX (215) 614-6966		DRWN/DATE	ØØ 6.23.95

REV	EDN	ND	DATE
F	1893	2	2.10.01
E	1733	2	8.00
D	1893	6	2.21.99
C	13Ø1	1	1Ø.1.Ø7
FILE PARTS 110Ø-330			

TOLERANCES	FRACCTIONS ±1/84
	DECIMALS .XXX ± .005
	.XX ± .01
	ANGLES ±1/2°
	UNLESS OTHERWISE SPECIFIED

* DENOTES NICKEL PLATED



ITEM	PART NO	SIZE	DESCRIPTION	QTY
1	-	-	-	-
2	-	-	-	-
3	D319A-E2-E3	-	90° ST UNION ELL 3/4 C X 3/4 NIPS	1
4	D316A-E3-E3	-	90° ELBOW 3/4 C	3
5	D320A-E3E3E3	-	TEE 3/4 C	1
6	-	-	-	-
7	-	-	-	-
8	D207A-B6-31	-	COPPER TUBING 3/4 CTS X 7 3/4	1
9	D207A-B6-01	-	COPPER TUBING 3/4 CTS X 27 3/3	1
10	D207A-B6-18	-	COPPER TUBING 3/4 CTS X 4 1/2	1
** 17	D207A-B6-181	-	COPPER TUBING 3/4 CTS X 45 1/4	1
12	D207A-B6-12	-	COPPER TUBING 3/4 CTS X 3	1
13	D207A-B6-46	-	COPPER TUBING 3/4 CTS X 11 1/2	1
14	D318F-E3-E3	-	UNION 3/4 C X 3/4 C	1

** 48 1/2 LG. FOR ELECTRIC MACHINES.

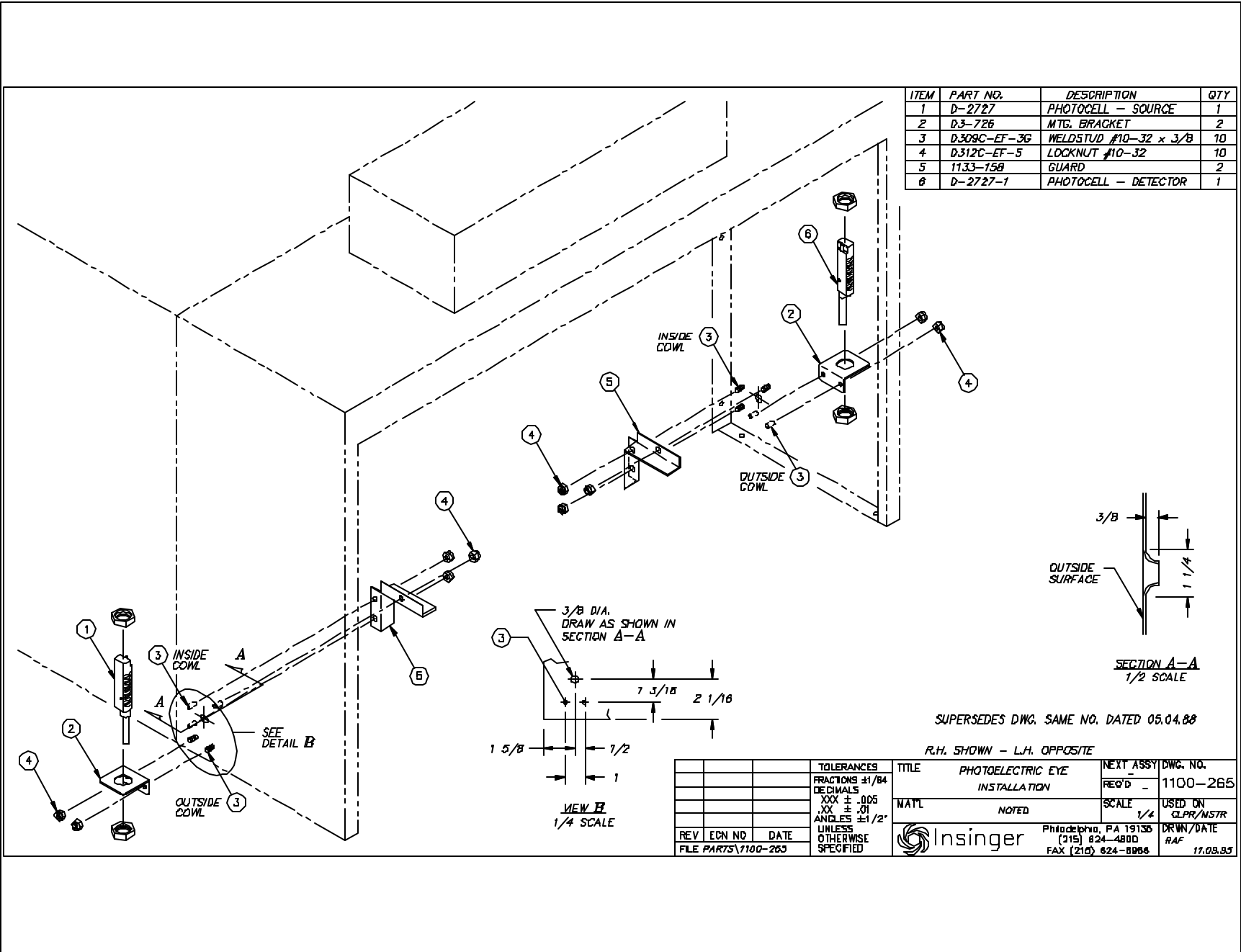
VIEW A

VIEW A

REAR VIEW OF MACHINE

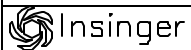
TOLERANCES			TITLE	NEXT ASS'Y	DWG. NO.
		FRACTIONS ±1/84	AUTO TANK FILL & FINAL RINSE	-	1100-282
		DECIMALS	CONN. ASS'Y (FROM BOOSTER)	REQ'D 7	
D	1587	7.18.97	MATL	SCALE	USED ON
C	858	10.27.97	AS NOTED	1=4	CLIPPER/MASTER
REV	EGN NO	DATE	Philadelphia, PA 19135 (215) 674-4800 FAX (215) 624-8886		
FILE: PARTS\1700-282			DRWN/DATE PG 10.27.97		

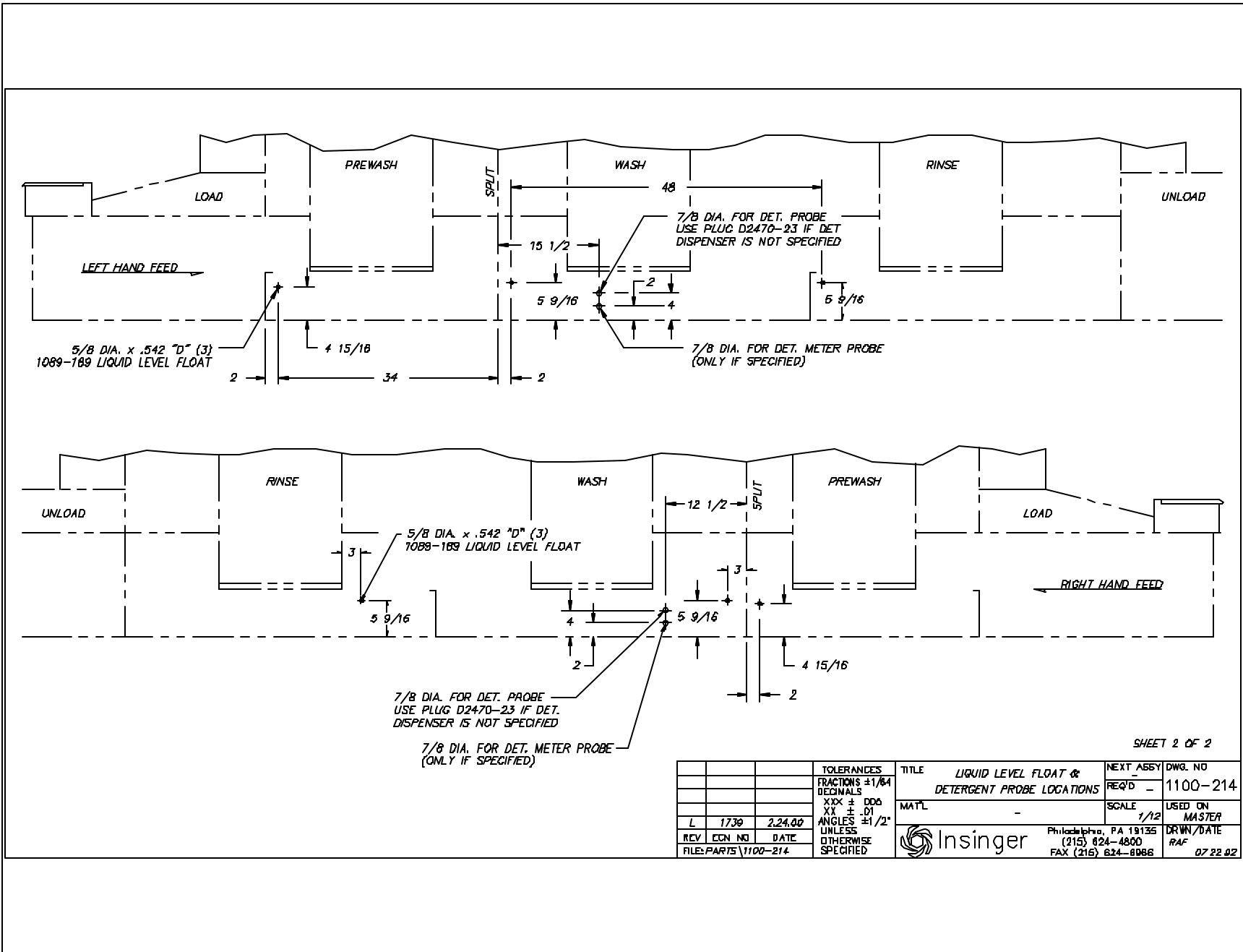
ITEM	PART NO.	DESCRIPTION	QTY
1	D-2727	PHOTOCELL - SOURCE	1
2	D3-726	MTG. BRACKET	2
3	D309C-EF-3G	WELDSTUD #10-32 x 3/8	10
4	D312C-EF-5	LOCKNUT #10-32	10
5	1133-158	GUARD	2
6	D-2727-1	PHOTOCELL - DETECTOR	1



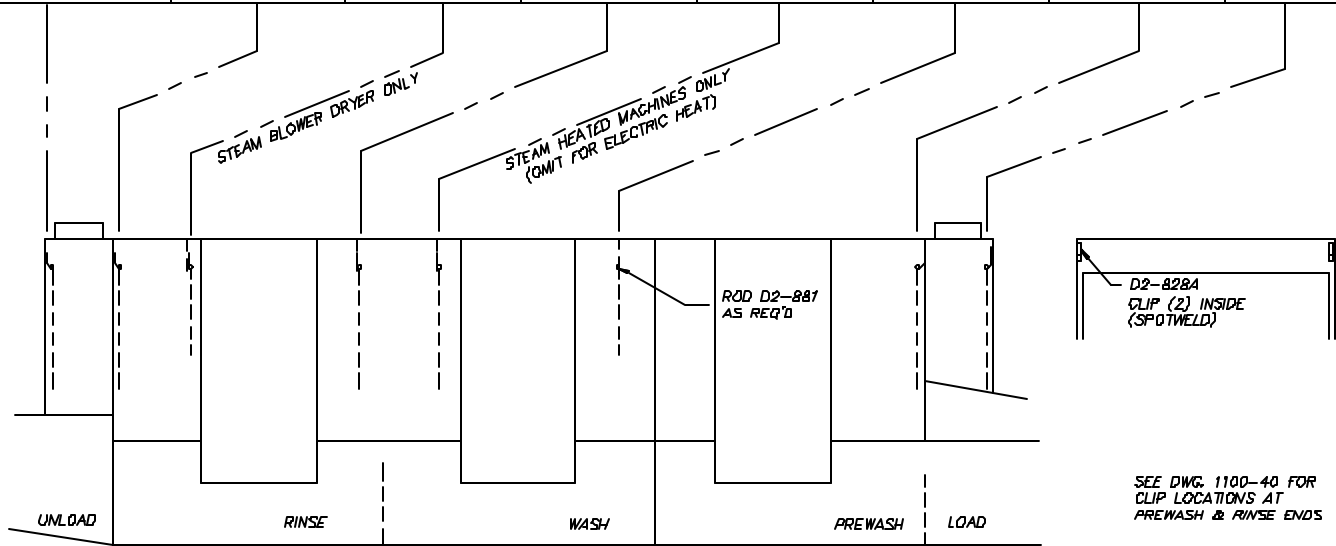
SUPERSEDES DWG. SAME NO. DATED 05.04.88

R.H. SHOWN - L.H. OPPOSITE

REV	ECN NO	DATE	TOLERANCES	TITLE	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/84	PHOTOELECTRIC EYE	REQ'D -	1100-265
			DECIMALS	INSTALLATION		
			XXX ± .005		SCALE	USED ON
			XX ± .01	NOTED	1/4	GLPR/MSTR
			ANGLES ±1/2°			DRWN/DATE
			UNLESS OTHERWISE SPECIFIED	 Insinger	Philadelphia, PA 19136 (215) 824-4800 FAX (215) 824-8068	RAF 17.09.85
				FILE PARTS/1100-265		



MACHINE	CURTAIN #	WIDTH	STEAM BLOWER DRYER				STEAM HEAT ONLY			
STANDARD	D2-522	32 3/8	16" (-4)	16" (-1)	12" (-2)	16" (-1)	16" (-1)	12" (-2)	16" (-1)	20" (-3)
STND, 5" X-H	D3-526	32 3/8	19"	19"	15"	19"	19"	15"	19"	23"
STND, 6" X-H	D3-526	32 3/8	22"	22"	18"	22"	22"	18"	22"	26"
37" STND HT		37 3/8	16" D2-518-2	16" D2-518-2	12" CUT FROM D2-518-2	16" D2-518-2	16" D2-518-2	12" CUT FROM D2-518-2	16" D2-518-2	20" D2-518-1
37". 5" X-HI		37 3/8	19" CUT FROM D2-518-1	19" CUT FROM D2-518-1	15" CUT FROM D2-518-2	19" CUT FROM D2-518-1	19" CUT FROM D2-518-1	15" CUT FROM D2-518-2	19" CUT FROM D2-518-1	23" CUT FROM D3-546
37". 6" X-HI		37 3/8	22" CUT FROM D3-546	22" CUT FROM D3-546	18" CUT FROM D2-518-1	22" CUT FROM D3-546	22" CUT FROM D3-546	18" CUT FROM D2-518-1	22" CUT FROM D3-546	25" CUT FROM D3-546



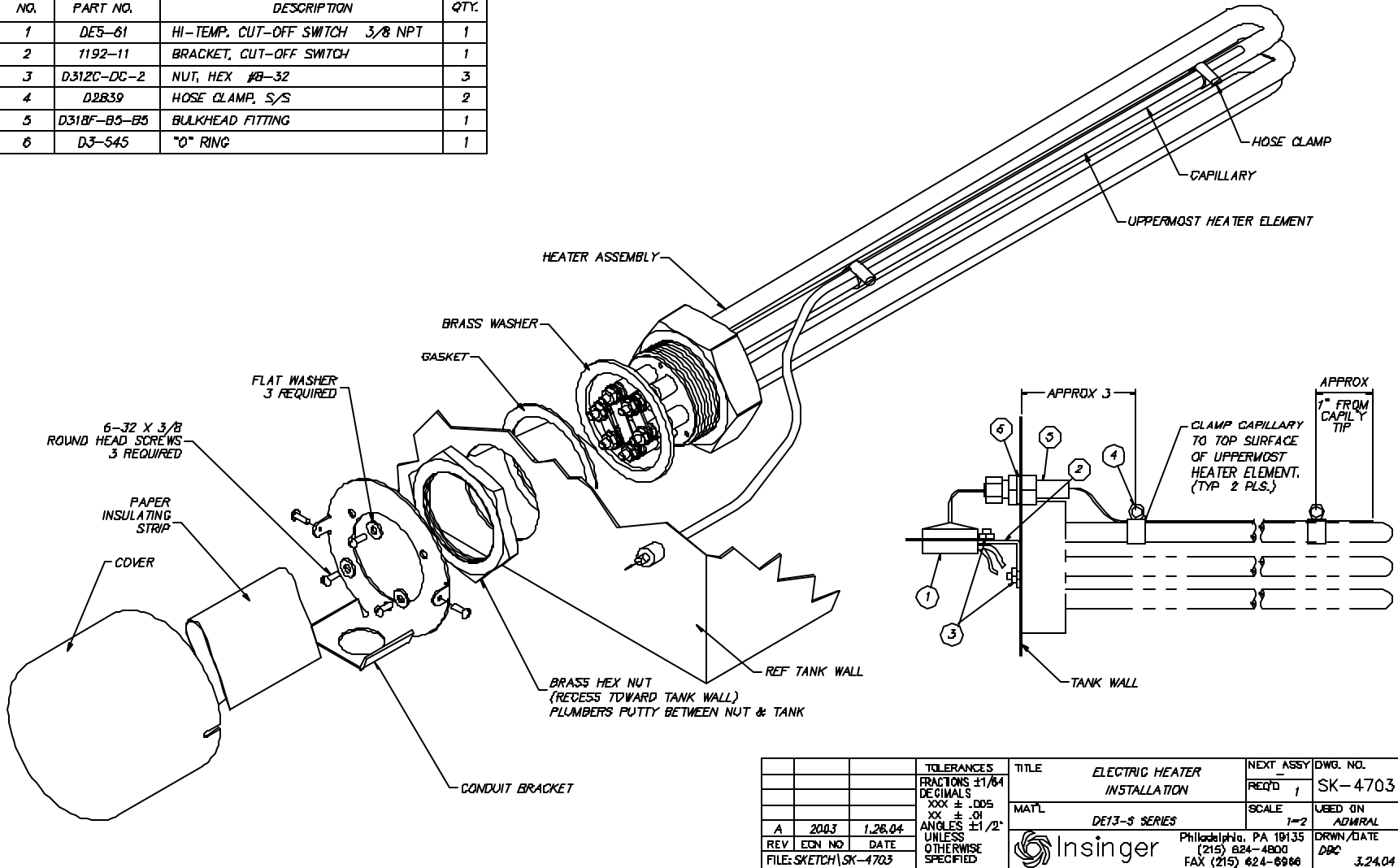
NOTE:

ELECTRIC HEATED MACHINES (WITH LOAD END BLOWERS) USE 6 CURTAINS
 STEAM HEATED MACHINES USE 7 CURTAINS
 STEAM MACHINES WITH BLOWER DRYER USE 8 CURTAINS

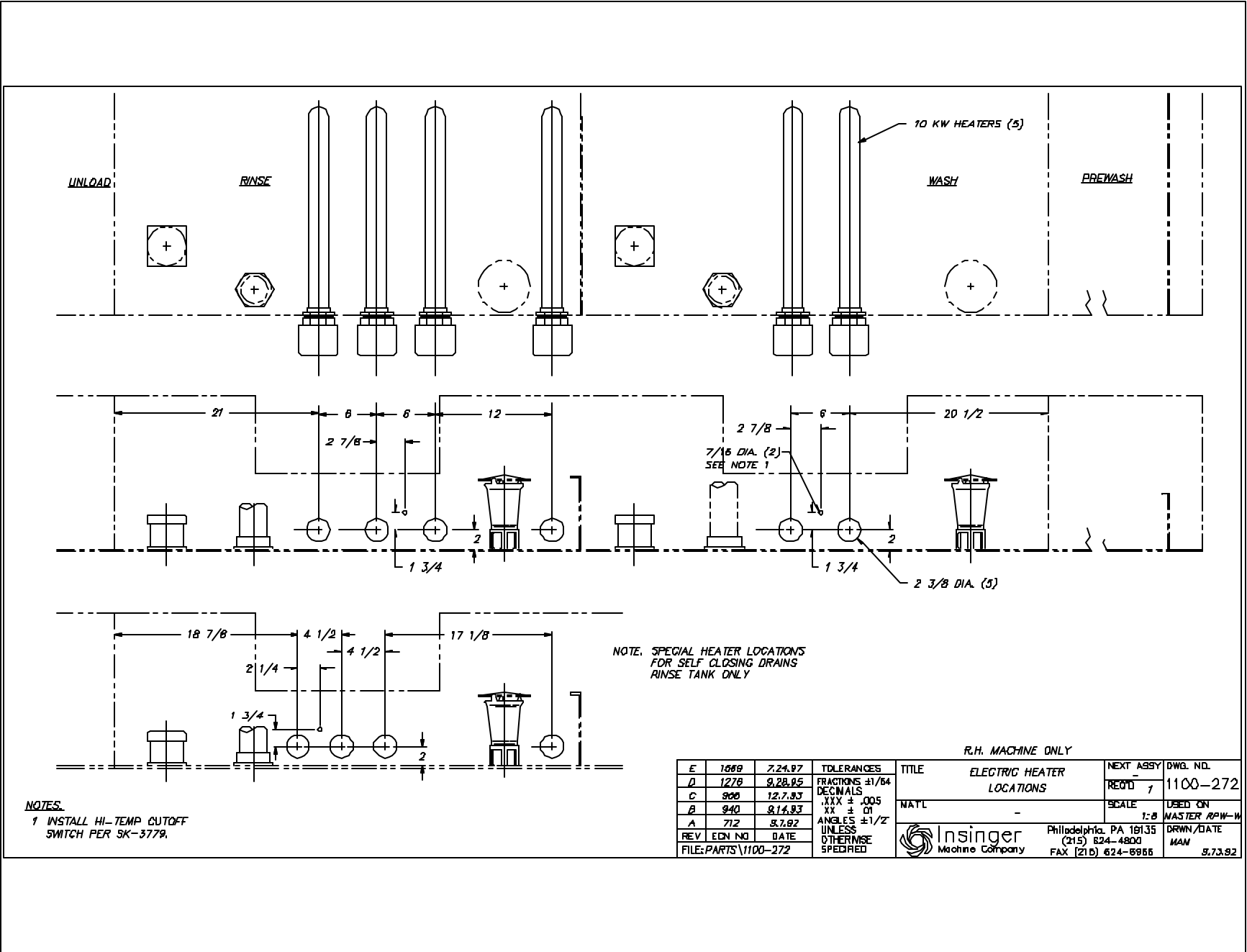
R.H. SHOWN L.H. OPPOSITE

REV	EQN NO	DATE	TOLERANCES	TITLE	NEXT ASSY	DWG. NO.
D	1963	1 21.03	FRACTIONS 31/64	CURTAIN LOCATIONS CLIPPER & MASTER	REQ'D	1100-39
C	1659	3.4.00	DECIMALS		#	
B	1577	8 26.87	XX ± .005	NAT'L	SCALE	USED ON
A	80	8.2.88	XX ± .01		NOTED	1=B
REV EQN NO DATE			ANGLES ± 1/2°	Philadelphia, PA 19135 (215) 824-4800 FAX (215) 824-8986	DRWN/DATE	
FILE: PARTS \1100-39			UNLESS OTHERWISE SPECIFIED		AP 7.26.83	

NO.	PART NO.	DESCRIPTION	QTY.
1	DE5-81	HI-TEMP. CUT-OFF SWITCH 3/8 NPT	1
2	1192-11	BRACKET, CUT-OFF SWITCH	1
3	D312C-DC-2	NUT, HEX #8-32	3
4	D2B39	HOSE CLAMP, S/S	2
5	D31BF-B5-B5	BULKHEAD FITTING	1
6	D3-545	"O" RING	1



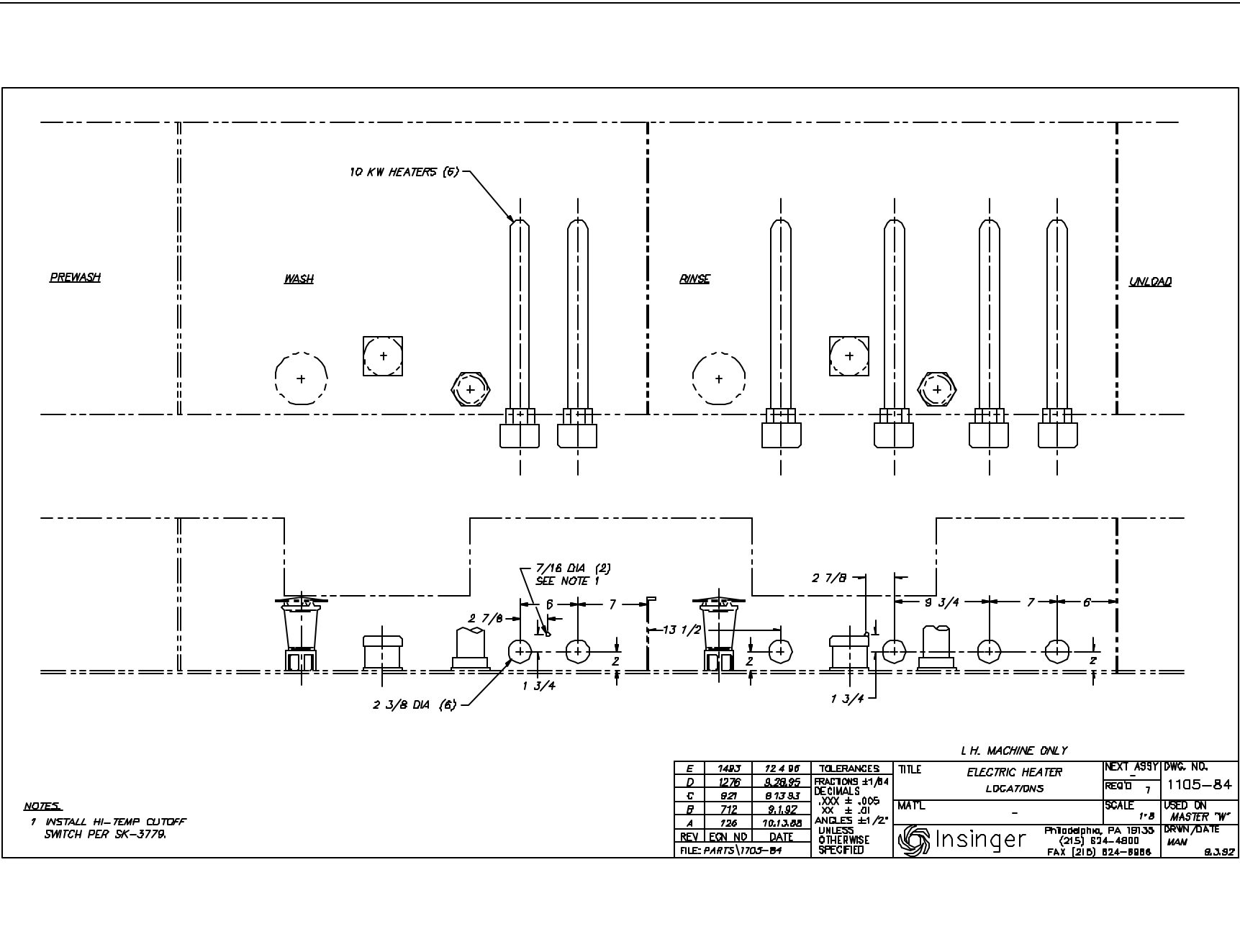
			TOLERANCES FRACTIONS ±1/64 DECIMALS XXX ± .005 XX ± .01 ANGLES ±1/2° UNLESS OTHERWISE SPECIFIED	TITLE ELECTRIC HEATER INSTALLATION	NEXT ASSY REQ'D 1	DWG. NO. SK-4703
				MAT'L DE13-S SERIES	SCALE 1=2	USED IN ADMIRAL
A	2003	1.28.04		Insinger	Philadelphia, PA 19135 (215) 824-4800 FAX (215) 624-8900	DRWN/DATE DPC 3.24.04
REV	EDN NO	DATE	FILE:SKETCH\SK-4703			



NOTES:
 1 INSTALL HI-TEMP CUTOFF SWITCH PER SK-3779.

NOTE: SPECIAL HEATER LOCATIONS FOR SELF CLOSING DRAINS RINSE TANK ONLY

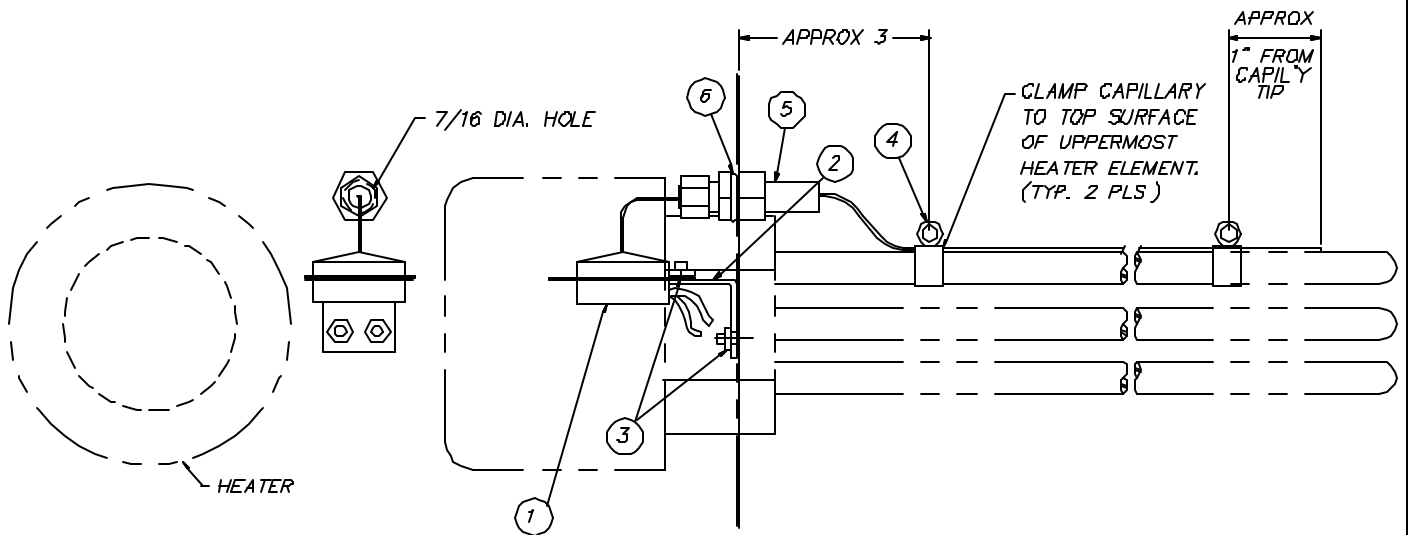
			R.H. MACHINE ONLY			
E	1568	7.24.97	TOLERANCES	TITLE	NEXT ASSY	DWG. NO.
D	1278	8.28.95	FRACTIONS ±1/64	ELECTRIC HEATER LOCATIONS	REGD 7	1100-272
C	908	12.7.93	DECIMALS			
B	940	8.16.93	.XXX ± .005		SCALE	USED ON
A	712	8.7.92	XX ± .01		1:8	MASTER RPW-W
REV	EDN NO	DATE	ANGLES ±1/2°			DRWN/DATE
			UNLESS OTHERWISE SPECIFIED			MAN
FILE:	PARTS\1100-272				Philadelphia, PA 19135 (215) 824-4800 FAX (215) 624-8966	8.7.92


NOTES

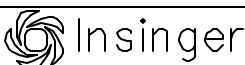
1 INSTALL HI-TEMP CUTOFF SWITCH PER SK-3779.

			L.H. MACHINE ONLY	
E	1483	12.4.06	TOLERANCES	TITLE
D	1276	8.28.95	FRACTIONS ±1/8"	ELECTRIC HEATER
C	821	8.13.93	DECIMALS	LOCATIONS
B	712	8.1.92	.XXX ± .005	
A	126	10.13.88	.XX ± .01	MATL
REV	LEGN	DATE	ANGLES ±1/2"	
FILE: PARTS 1705-B4			UNLESS OTHERWISE SPECIFIED	INSINGER
				Philadelphia, PA 19135 (215) 834-4800 FAX (215) 824-8886
			NEXT ASSY	DWG. NO.
			REQ'D	7
			SCALE	1:8
			USED ON	MASTER "W"
			DRWN/DATE	MAW
				8.3.92

NO.	PART NO	DESCRIPTION	QTY.
1	DE5-61	HI-TEMP. CUT-OFF SWITCH 3/8 NPT	1
2	1192-11	BRACKET, CUT-OFF SWITCH	1
3	D312G-DC-2	NUT, HEX #8-32	3
4	D2839	HOSE CLAMP, S/S	2
5	D318F-B5-B5	BULKHEAD FITTING	1
6	D3-545	"O" RING	1



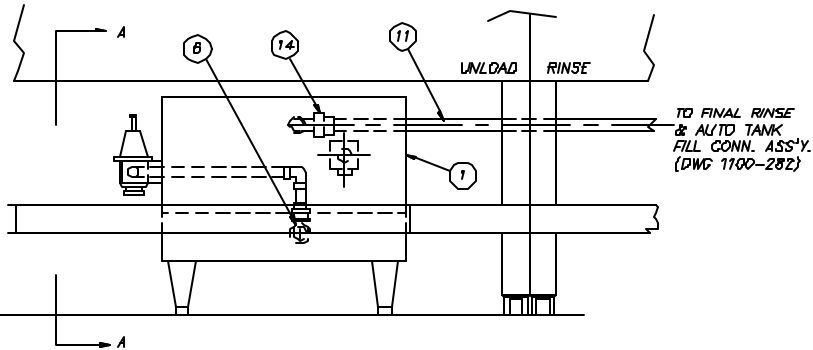
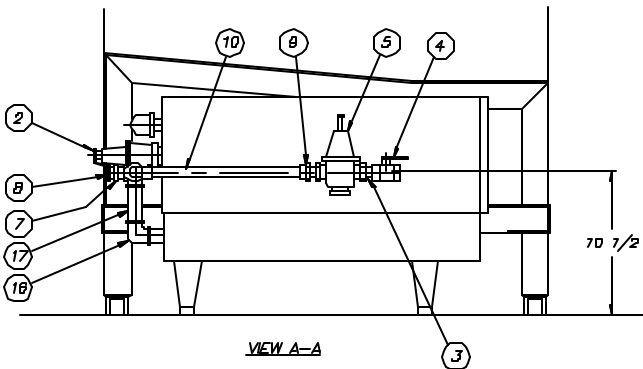
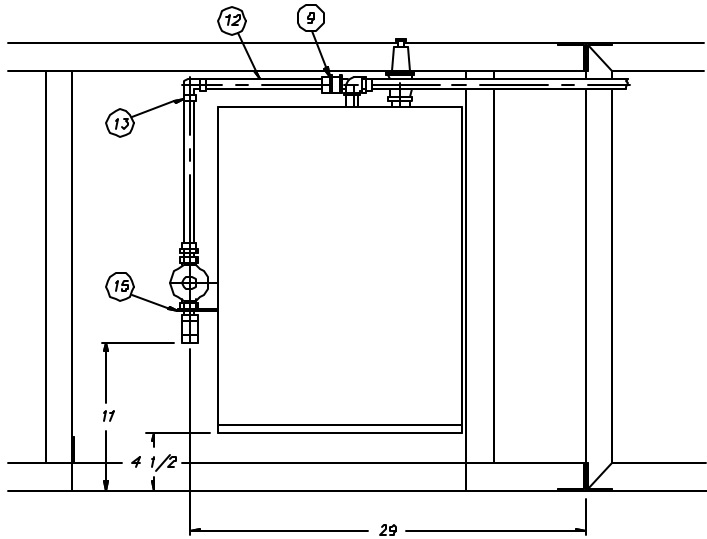
NOTE: ARRANGEMENT SHOWN IS TYPICAL; HOWEVER, IN SOME MODELS (e.g. MASTER L.H. RINSE TANK), ARRANGEMENT IS OPPOSITE


			TOLERANCES	TITLE	HI-TEMP CUTOFF SWITCH INSTALLATION	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/84			REQ'D	SK-3779
			DECIMALS			1	
			.XXX ± .005	MAT'L	-	SCALE	USED ON
			.XX ± .01			1:2	FLITE
A	1764	6 1.00	ANGLES ±1/2°				DRWN/DATE
REV	ECN NO	DATE	UNLESS OTHERWISE SPECIFIED		Philadelphia, PA 19135		MAM
FILE: SKETCHA\SK-3779					(215) 624-4800		9.27.95
					FAX (215) 624-6956		

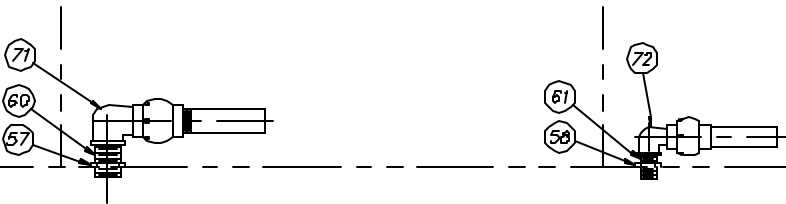
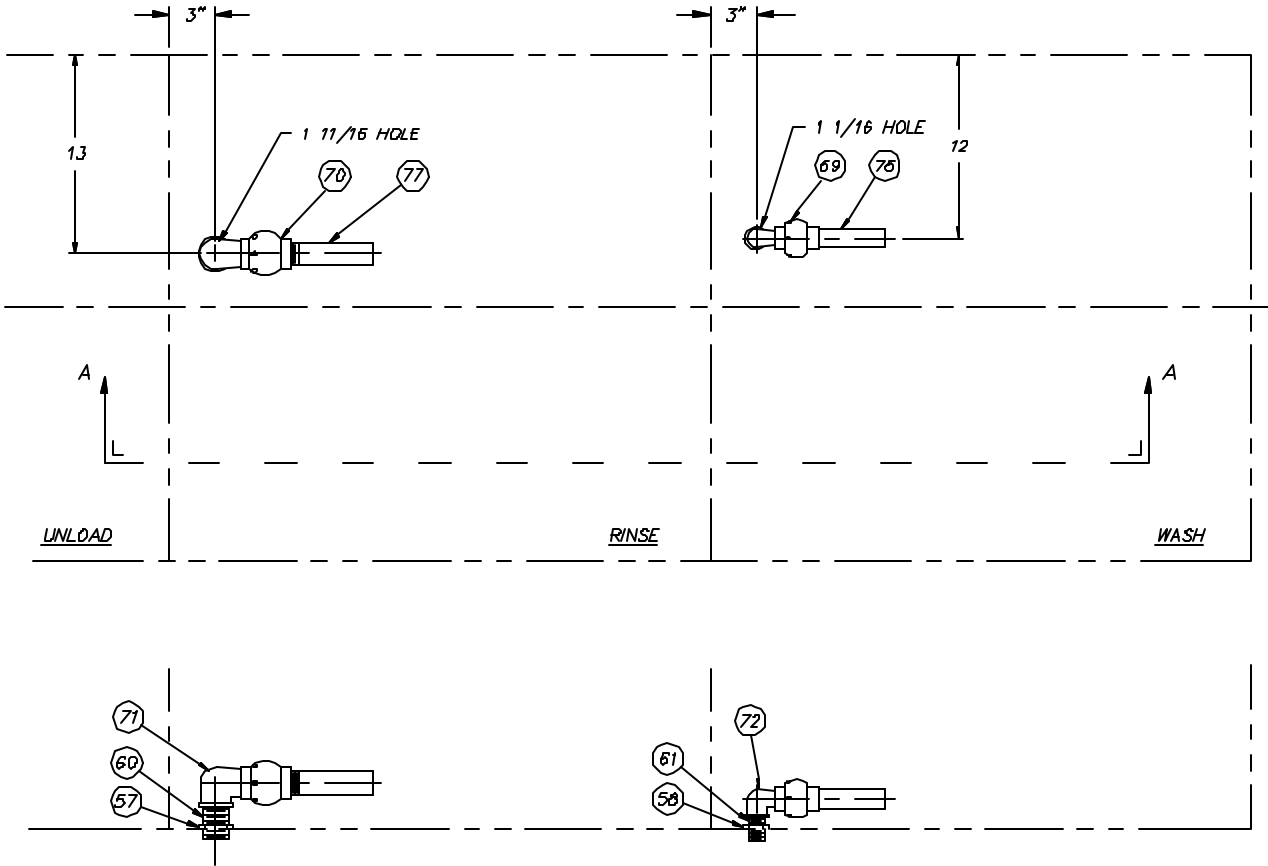
ITEM	PART ND	SIZE	DESCRIPTION	QTY.
1	CC45-58	-	ELECTRIC BOOSTER	1
2	D-2507	-	RELIEF VALVE 3/3 IPS	1
3	D314F-EC-00	-	CLOSE NIPPLE 3/4 IPS	1
4	D234D	-	BALL VALVE 3/4 IPS	1
5	D-2508	-	PRESS. REG. & STRAINER 3/4 IPS	1
6	D320F-E1E1E1	-	TEE 3/4 IPS	1
7	D322-E2-B1	-	HEX REDUCER 3/4 MIPS x 1/4 FIPS	1
8	D329-5	-	DRAIN COCK 1/4 MIPS	1
9	D317A-E3-E2	-	ADAPTER 3/4 MIPS x 3/4 C	2
10	D207A-B6-B2	-	COPPER TUBING 3/4 CTS x 15 1/2 LG.	1
11	D207A-B6-71	-	COPPER TUBING 3/4 CTS x 20 1/4 LG.	1
	D207A-B6-78	-	COPPER TUBING 3/4 CTS x 22 1/4 LG.	
12	D207A-B6-38	-	COPPER TUBING 3/4 CTS x 9 1/2 LG.	1
	D207A-B6-30	-	COPPER TUBING 3/4 CTS x 7 1/2 LG.	
13	D316A-E3-E3	-	90° ELBOW 3/4 C	1
14	D319A-E3-E1	-	90° UNIDN ELL 3/4 FIPS x 3/4 C	1
15	1100-162	A	BRACKET	1
16	D316F-E1-E1	-	90° ELBOW 3/4 FIPS	1
17	D314F-ES-28	-	NIPPLE 3/4 IPS x 3 1/2 LG.	1

(MUST USE 4" LEGS)

 FOR R.H. MACH.
FOR L.H. MACH

 FOR R.H. MACH.
FOR L.H. MACH.


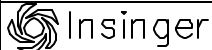
E	1625	8.19.98	TOLERANCES	TITLE	BOOSTER ASSEMBLY	NEXT ASSY	DWG. NO.
D	1587	7.17.97	FRACTIONS ±1/84	(ELECTRIC)	REQ'D	1	1100-161
C	562	6.4.91	DECIMALS	MAT'L	NOTED	SCALE	USED ON
B	-	3.19.86	XXX ± .000			1-B	CLIPPER/MASTER
A	-	1.6.86	XX ± .01				DRWN/DATE
REV	EGN NO	DATE	ANGLES ±1/2°				RAF
			UNLESS OTHERWISE SPECIFIED				12.21.83
FILE	PARTS\1100-161			 Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-6966			



VIEW A - A

R.H. SHOWN - L.H. OPPOSITE

SHEET 1 OF 3

			TOLERANCES	TITLE	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/84	STEAM PIPING (INJECTORS)		1105-72
			DECIMALS	WASH & RINSE TANKS	REQ'D 1	
G	1940	8.12.02	.XXX ± .005	MAT'L	SCALE	USED ON
F	1567	7.24.97	.XX ± .01	AS NOTED	1-8	CLIPPER/MASTER
E	1311	12.7.95	ANGLES ±1/2°			DRWN/DATE
REV	ECN NO	DATE	UNLESS OTHERWISE SPECIFIED		Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-6966	PC 11.8.93
FILE:PARTS\1105-72						

ITEM	PART NO	DESCRIPTION	QTY.
62	-	-	-
63	-	-	-
64	-	-	-
65	D314F-DC-00	NIPPLE CLOSE 1/2 IPS	2
66	D316A-E3-E3	90° ELBOW 3/4 C	1
67	D317A-E1-E3	ADAPTER 3/4 FIPS X 3/4 C	1
68	D207A-B6-20	COPPER TUBING 3/4 CTS X 5" LG	1
69	D-942A	STEAM INJECTOR 3/4 IPS	1
70	D-2450	STEAM INJECTOR 1 1/4 IPS	1
71	D316A-C1-C2	90° STREET ELL 1 1/4 IPS	1
72	D316A-E1-E2	90° STREET ELL 3/4 IPS	1
73	D2454	BALL CHECK 3/4 IPS	1
74	D2210	HORIZ CHECK VALVE 1 1/4 C	1
75	D207A-B10-24	COPPER TUBING 1 1/4 CTS X 6	1
76	D314F-F8-4B	NIPPLE 1 IPS X 6	1
77	D314F-HS-4B	NIPPLE 1 1/2 IPS X 6	1

FOR 70" RISE

ITEM	PART NO	DESCRIPTION	QTY
31	D2595	SOLENOID VALVE 3/4 IPS	1
32	D316A-E3-E4	90° ELBOW 3/4 FTG X 3/4 C	1
33	D207A-B6-32	COPPER TUBING 3/4 CTS X 8	1
34	D2702A	STEAM TRAP 1/2 IPS	1
35	D314F-FC-00	NIPPLE CLOSE 1" IPS	1
36	D320F-F1D1E1	TEE 1" FIPS X 1/2 FIPS X 3/4 FIPS	1
37	D322F-D2-C1	HEX RED 1/2 NIPS X 3/8 FIPS	1
38	D2396	THERMOSTAT (SEE NOTE 2)	1
39	D316F-E2-D2	90° RED ELL 3/4 FIPS X 1/2 FIPS	1
40	D320F-E1E1E1	TEE 3/4 IPS	1
41	D2507	PRESSURE RELIEF VALVE 3/4 IPS	1
42	D318A-E3-E2	UNION 3/4 C X 3/4 MPS	1
43	D318A-E3-E2	90° ELBOW 3/4 C X 3/4 MPS	2
44	D207A-B6-24	COPPER TUBING 3/4 CTS X 6	1
45	D2508	PRESS REC & STRAINER 3/4 IPS	1
46	D314F-EC-00	NIPPLE CLOSE 3/4 IPS	2
47	D2310	BALL VALVE 3/4 IPS	1
48	D317A-F3-F2	ADAPTER 1" C X 1" MPS	1
49	D207A-B8-19	COPPER TUBING 1" CTS X 4 3/4	1
50	D316A-F3-F3	90° ELBOW 1" C X 1" C	2
51	D207A-B8-10	COPPER TUBING 1" CTS X 3 3/4	1
52	D316A-F3-F2	90° ELBOW 1" C X 1" MPS	1
53	D2772	SOLENOID VALVE 1" IPS	1
54	D318A-F3-F2	UNION 1" C X 1" NIPS	1
55	D207A-B8-18	COPPER TUBING 1" CTS X 4 1/2 LG	1
56	D207A-B8-24	COPPER TUBING 1" CTS X 6" LG	1
57	D326A-G1	LOCKNUT 1 1/4 IPS	1
58	D326F-E1	LOCKNUT 3/4 IPS	1
59	-	-	-
60	D314F-GA-16	NIPPLE 1 1/4 IPS X 2" ALL THD	1
61	D314F-EA-18	NIPPLE 3/4 IPS X 2" ALL THD	1

FOR 40" RISE

ITEM	PART NO.	DESCRIPTION	QTY
1	D2100	STEAM BOOSTER (1-2) (SEE NOTE #1)	1
2	D316F-F1-F2	90° STREET ELL 1" NIPS X 1" FIAS	1
3	D317A-E2-D3	ADAPTER 3/4 C X 1" MPS	1
4	D207A-B6-10	COPPER TUBING 3/4 CTS X 4" LG	2
5	D316A-E3-E3	90° ELL 3/4 C	2
6	D207A-B6-14	COPPER TUBING 3/4 CTS X 3 1/2 LG	1
7	D316A-D3-D2	90° ELBOW 1/2 C X 1/2 NIPS	1
8	D2595	SOLENOID VALVE 3/4 NIPS	1
9	D318A-E3-E2	UNION 3/4 C X 3/4 MPS	1
10	D323A-F4-E3	FLUSH BUSHING 1" FTG X 3/4 D	1
11	D207A-B6-28	COPPER TUBING 3/4 CTS X 7" LG	1
12	D317A-J3-L2	ADAPTER 2" C X 2" MPS	1
13	D2758	"Y" STRAINER 2" IPS	1
14	D314F-JC-00	NIPPLE CLOSE 2" IPS	1
15	D2757	BALL VALVE 2" IPS	1
16	D207A-B10-21	COPPER TUBING 1 1/4 CTS X 5 1/4 LG	1
17	D316A-G3-G3	90° ELBOW 1 1/4 C X 1 1/4 C	2
18	D207A-B16-24	COPPER TUBING 2" CTS X 6" LG	1
19	D318A-G3-G3	UNION 1 1/4 C X 1 1/4 C	2
20	D207A-B10-06	COPPER TUBING 1 1/4 CTS X 18 1/2	1
21	D320A-D3E393	TEE 1 1/4 C X 3/4 C X 1 1/4 C	1
22	D317A-G4-G2	ADAPTER 1 1/4 FTG X 1 1/4 MPS	2
23	D2475	SOLENOID VALVE 1 1/4 IPS	1
24	D320A-J3B3F3	TEE 2" C X 1 1/4 C X 1" C	1
25	D316A-G3-G4	90° ELBOW 1 1/4 C X 1 1/4 FTG	1
26	D207A-B10-12	COPPER TUBING 1 1/4 CTS X 3	1
27	-	-	-
28	D317A-G4-G1	ADAPTER 1 1/4 FIPS X 1 1/4 FTG	1
29	D207A-B-38	COPPER TUBING 3/4 CTS X 9 1/2	1*
	D207A-B8-90	COPPER TUBING 3/4 CTS X 22 1/2	1**
30	D317A-E3-E2	ADAPTER 3/4 C X 3/4 MPS	4

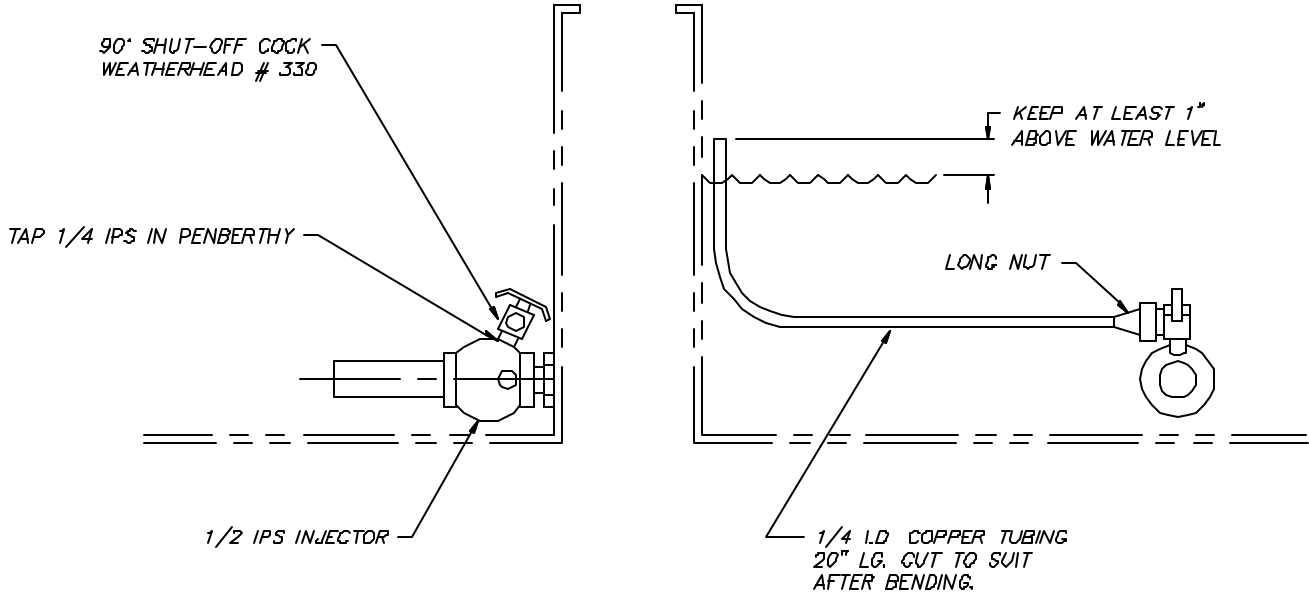
NOTE -


- (ITEM #1) ADD SUFFIX "NM" FOR NON-MAGNETIC MACHINES.
- (ITEM #64) USE PART NO. D2396 AS STANDARD AND PART NO. D2301 WHEN LDW TEMP. CUT-OFF IS SPECIFIED

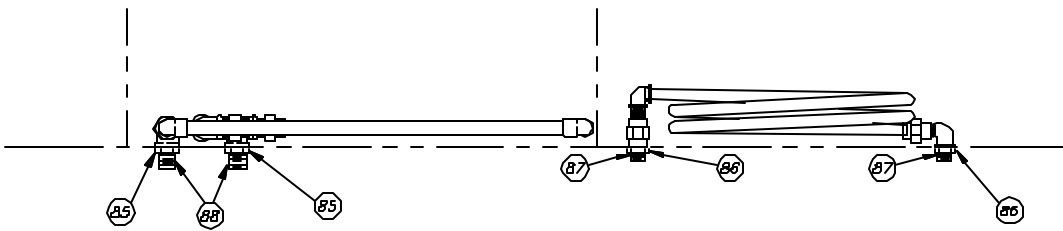
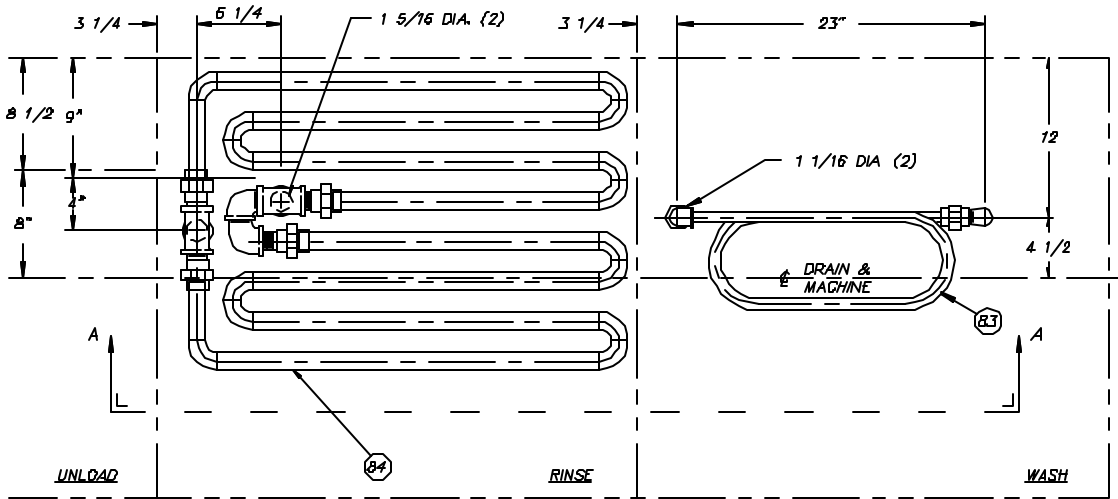
 * FOR CLIPPER ONLY
 ** FOR MASTER ONLY

SHEET 3 OF 3

			TOLERANCES	TITLE	NEXT ASSY	DWG. NO
			FRACTIONS ±1/64	STEAM PIPING (INJECTORS)	REQ'D	1105-72
G	1940	8.12.02	DECIMALS	WASH & RINSE TANKS	1	
F	1367	7.24.97	X XX ± .006			
E	1311	12.7.90	X X ± .01	MATL	SCALE	USED ON CLIPPER/MASTER
			ANGLES ±1/2°	AS NOTED	1=8	
REV	ECN NO	DATE	UNLESS OTHERWISE SPECIFIED		Philadelph, PA 19135	DRWN/DATE
FILE:PARTS\1105-72					(215) 624-4800	PC
					FAX (215) 624-8986	11.8.03



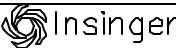
			TOLERANCES	TITLE	STEAM SILENCER ASSEMBLY	NEXT ASSY	DWG. NO.
			FRACTIONS $\pm 1/64$			REQ'D	1
			DECIMALS				199-76
			.XXX $\pm .005$	MATL		SCALE	USED ON
			.XX $\pm .01$			FULL	ENSGN 40-2
			ANGLES $\pm 1/2^\circ$				DRWN/DATE
			UNLESS OTHERWISE SPECIFIED		Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-6966		AP
REV	ECN NO	DATE					4.78.87
FILE: PARTS \ 199-76							



VIEW A - A

R.H. SHOWN - L.H. OPPOSITE

SHEET 1 OF 3

J	1023	3.12.02	FRACTIONS 31/64	TITLE	STEAM PIPING	NEXT ASSY	DWG NO
H	1009	10.8.01	DECIMALS		WASH & RINSE TANKS	REQD	1100-314
G	1006	9.28.01	XXX ± .000	NATL	AS NOTED	SCALE	USED ON
F	1000	3.20.89	XX ± .01			1-8	CLIPPER/MASTER
REV	ECH NO	DATE	ANGLES ± 1/2°	 Philadelphia, PA 19133 (215) 824-4800 FAX (215) 524-8966		DRWN/DATE PB 8.8.93	
			UNLESS OTHERWISE SPECIFIED				
FILE PARTS\1100-314							



FOR 70" RISE

ITEM	PART NO.	DESCRIPTION	QTY.
61	D317A-E3-E2	ADAPTOR 3/4C X 3/4MPS	2
62	D320F-F1D1E1	TEE 1" FIPS X 1/2 FIPS X 3/4 FIPS	1
63	D322F-D2-G1	HEX RED 1/2 MPS X 3/8 FIPS	1
64	D2396	THERMOSTAT (SEE NOTE 2)	1
65	D207A-B6-16	COPPER TUBING 3/4CTS X 4"LG	1
66	D320F-E1E1E1	TEE 3/4 IPS	1
67	D2507	PRESSURE RELIEF VALVE 3/4 IPS	1
68	D318A-E3-E2	UNION 3/4 C X 3/4 MPS	1
69	D318A-E3-E2	90° ELBOW 3/4 C X 3/4 MPS	2
70	D207A-B6-24	COPPER TUBING 3/4 CTS X 6	1
71	D2508	PRESS REC & STRAINER 3/4 IPS	1
72	D314F-EC-00	NIPPLE CLOSE 3/4 IPS	1
73	D2340	BALL VALVE 3/4 IPS	1
74	D317A-F3-F2	ADAPTER 1" C X 1" MPS	1
75	D207A-B6-13	COPPER TUBING 1" CTS X 3 1/4	1
76	D318A-F3-F3	90° ELBOW 1" C X 1" C	1
77	D207A-B6-15	COPPER TUBING 1" CTS X 3 3/4	1
78	D318A-F3-F2	90° ELBOW 1" C X 1" MPS	1
79	D2772	SOLENOID VALVE 1" IPS	1
80	D318A-F3-F2	UNION 1" C X 1" MPS	1
81	D207A-B6-18	COPPER TUBING 1" CTS X 4 1/2	1
82	D207A-B6-24	COPPER TUBING 3/4CTS X 5"LG	1
83	1100-84	STEAM COIL - WASH	1
84	9079-07	STEAM COIL - RINSE	1*
	8019-02	STEAM COIL - RINSE	1**
85	D328F-F7	LOCKNUT 1" IPS	2
86	D328F-E1	LOCKNUT 3/4 IPS	2
87	D314F-EA-14	NIPPLE 3/4 IPS X 1 3/4 ALL THD.	2
88	D314F-FA-16	NIPPLE 1" IPS X 2" ALL THD.	1
89	D314F-EL-52	NIPPLE 3/4 IPS X 1/2 LQE	1
90	D323F-D2-C1	RED. BUSH 1/2 MPS X 3/8 FIPS	1
91	1100-315	PIPE SUPPORT	1

NOTE:
 1. (ITEM #1) ADD SUFFIX "NM" FOR NON-MAGNETIC MACHINES.
 2. (ITEM #64) USE PART NO. D2396 AS STANDARD AND PART NO. D2301 WHEN LOW TEMP. CUT-OFF IS SPECIFIED.

ITEM	PART NO.	DESCRIPTION	QTY.
31	D2585	SOLENOID VALVE 3/4 IPS	1
32	D316A-E3-E4	90° ELBOW 3/4 C X 3/4 FTG	1
33	D207A-B6-32	COPPER TUBING 3/4 CTS X 8	1
34	D316A-E3-E3	90° EL 3/4C X 3/4C	1
35	D314F-EO-00	CLOSE NIPPLE 5/4 IPS	1
36	D316F-E2-D2	80° RED ELL 3/4FIPS X 1/2MPS	1
37	D314F-DC-00	CLOSE NIPPLE 1/2 IPS	1
38	D2102A	STEAM TRAP 1/2 IPS	2
39	D318A-D3-D2	UNION 1/2 C X 1/2 MPS	1
40	D207A-B4-33	COPPER TUBING 1/2 CTS X 8 1/4	1
41	D207A-B6-16	COPPER TUBING 3/4CTS X 4"LG	1
42	D317A-E3-E1	ADAPTER 3/4C X 3/4FIPS	1
43	D320A-E3D3E1	TEE 3/4 C X 1/2 C X 3/4 FIPS	1
44	D207A-B6-28	COPPER TUBING 3/4 CTS X 7	1
45	D318A-E3-E3	UNION 3/4 C	1
46	D207A-B6-28	COPPER TUBING 3/4CTS X 7LG	1
47	D320A-E3D3E3	TEE 3/4 C X 1/2 C X 3/4 C	1
48	D207A-B6-21	COPPER TUBING 3/4 CTS X 5 1/4	1
49	D317A-E3-D2	ADAPTER 3/4 C X 1/2 MPS	1
50	D314F-DC-00	NIPPLE CLOSE 1/2 IPS	1
51	D322F-F2-D1	HEX RED 1" NIPS X 1/2 FIPS	1
52	D316F-F1-F1	UNION 1" IPS	1
53	D207A-B4-213	COPPER TUBING 1/2 CTS X 53 1/4	1*
	D207A-B4-261	COPPER TUBING 1/2 CTS X 65 1/4	1**
54	D316A-D3-D3	90° ELBOW 1/2 C	2
55	D207A-B4-9	COPPER TUBING 1/2 CTS X 2 1/4	1
56	D207A-B4-32	COPPER TUBING 1/2 CTS X 8	1
57	D318A-D3-D1	UNION 1/2 C X 1/2 FIPS	1
58	D2102	STEAM TRAP 3/8 IPS	1
59	D314F-DC-00	NIPPLE CLOSE 3/8 IPS	2
60	D321F-E1-C1	RED COUPLING 3/4 FIPS X 3/8 FIPS	1

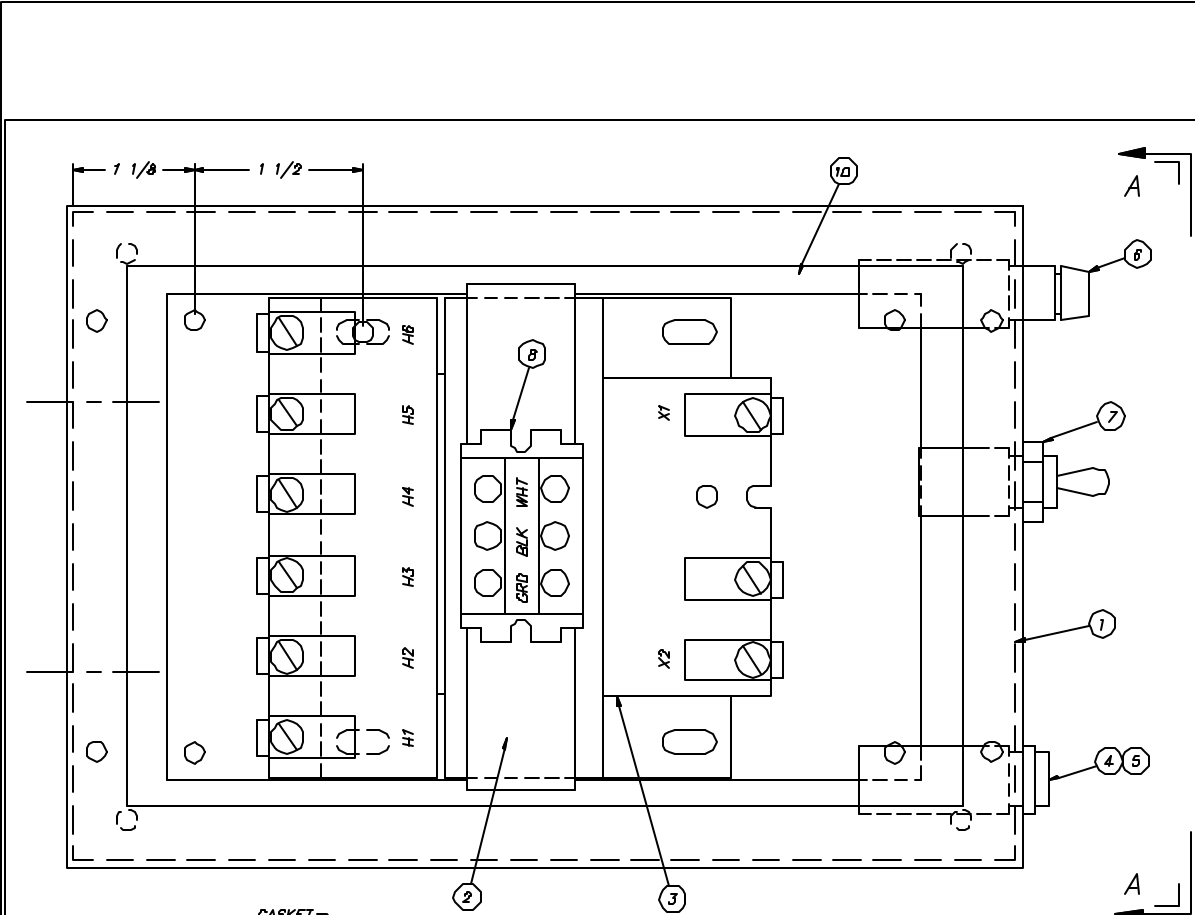
FOR 40" RISE

ITEM	PART NO.	DESCRIPTION	QTY.
1	D2100	STEAM BOOSTER (1-2) (SEE NOTE #1)	1
2	D316F-F1-F2	90° STREET ELL 1" FIPS X 7" MPS	1
3	D317A-E3-F2	ADAPTER 3/4 C X 1" MPS	1
4	D207A-B6-16	COPPER TUBING 3/4 CTS X 4"	1
5	D316A-E3-E3	90° ELL 3/4 C	2
6	D207A-B6-14	COPPER TUBING 3/4 CTS X 3 1/2	1
7	D316A-E3-E2	90° ELBOW 3/4 C X 3/4 MPS	1
8	D2395	SOLENOID VALVE 3/4 IPS	1
9	D318A-E3-E2	UNION 3/4 C X 3/4 MPS	1
10	D325A-F4-E3	FLUSH BUSHING 1"FTG X 3/4C	1
11	D207A-B6-28	COPPER TUBING 3/4 CTS X 7"	1
12	D320A-J3D3F3	TEE 2 C X 1 1/4 C X 1" C	1
13	D317A-J3-J2	ADAPTER 2 C X 2 MPS	1
14	D2766	"Y" STRAINER 2" IPS	1
15	D314F-JC-00	NIPPLE CLOSE 2" IPS	1
16	D2757	BALL VALVE 2" IPS	1
17	D207A-B16-24	COPPER TUBING 2"CTS X 6"	1
18	D318A-G3-G4	90° STREET EL 1 1/4C X 1 1/4FTG	1
19	D207A-B10-23	COPPER TUBING 1 1/4 CTS X 5 1/4	1
20	D318A-G3-G3	UNION 1 1/4 C X 1 1/4 C	2
21	D207A-B70-10	COPPER TUBING 1 1/4 CTS X 2 1/2	1
22	D320A-G3E3G3	TEE 1 1/4 C X 3/4 C X 1 1/4 C	1
23	D317A-G4-G2	ADAPTER 1 1/4 FTG X 1 1/4 MPS	1
24	D2470	SOLENOID VALVE 1 1/4 IPS	1
25	D314F-G5-16	NIPPLE 1 1/4 IPS X 2	1
26	D316A-G3-G1	90° ELBOW 1 1/4 C X 1 1/4 FIPS	1
27	D207A-B10-12	COPPER TUBING 1 1/4 CTS X 3	1
28	D317A-G3-F1	ADAPTER 1 1/4 C X 1" FIPS	1
29	D207A-B6-116	COPPER TUBING 3/4 CTS X 29	1*
	D207A-B6-164	COPPER TUBING 3/4 CTS X 41	1**
30	D318A-E3-E2	COPPER UNION 3/4 C X 3/4 MPS	2

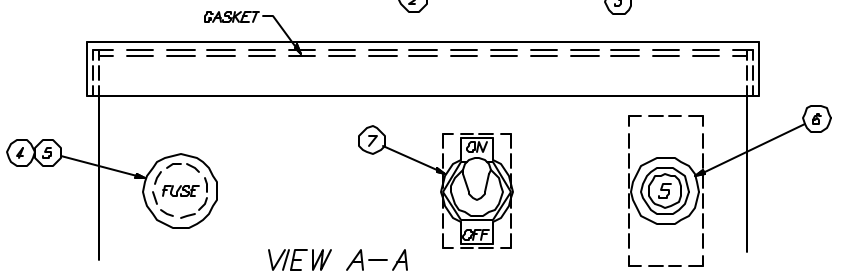
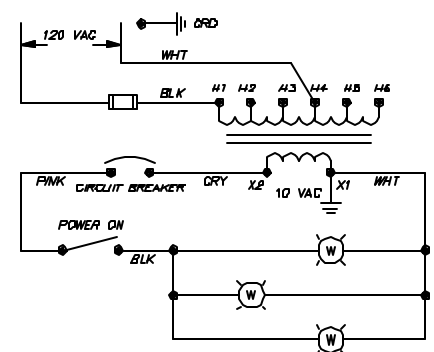
* FOR CLIPPER ONLY
 ** FOR MASTER ONLY

SHEET 3 OF 3

J	1923	3.12.02	TOLERANCES	TITLE	STEAM PIPING	NEXT ASSY DWG. NO.
H	1989	10.8.01	FRACTIONS ±1/84	WASH & RINSE TANKS	REQ'D	1100-314
G	1986	9.28.01	DECIMALS	AS NOTED	SCALE	USED ON CLIPPER/MASTER
F	1680	6.20.99	XXX ± .005		1-8	DRWN/DATE
REV	ECN NO	DATE	XX ± .01	Philadelphia, PA 19135 (215) 624-4800 FAX (215) 624-8866	PC	8.8.8J
			ANGLES ±1/2"			
			UNLESS OTHERWISE SPECIFIED			
			FILE PARTS/1100-314			



ITEM	PART NO.	DESCRIPTION	QTY.
1	1454-6	ELEC. ENCLOSURE W/LID	7
2	1454-7	MOUNTING STRAP	7
3	DE6-9	TRANSFORMER (150VA, 24VAC)	7
4	DE9-219	FUSEHOLDER HKP-HH	7
5	DE9-218	FUSE MDL-3,2	7
6	DE9-43	CIRCUIT BREAKER, 5A	7
7	DE5-8	TOGGLE SWITCH (4X646)	7
8	DE3-8	TERMINAL BLK ASSY	7
9			
10	1454-10	PANEL-ELEC. ENCL	7



REV	ECN NO	DATE
A	1716	71.18.99

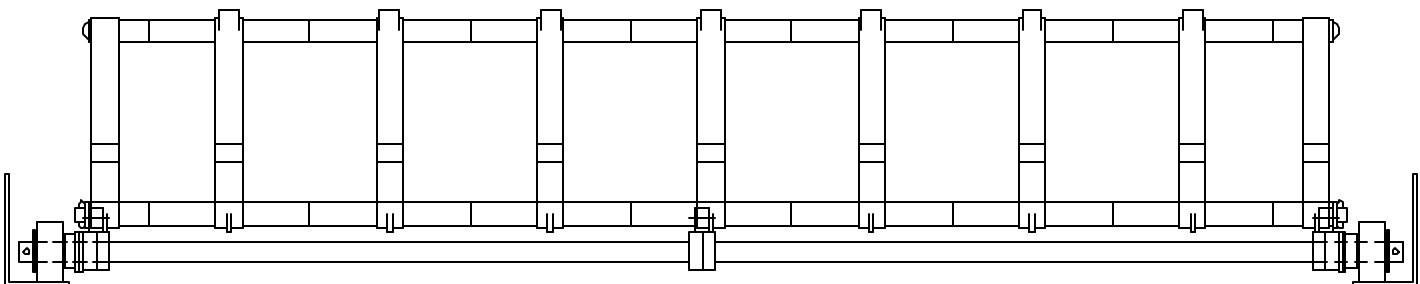
FILE PARTS 1454-1


TOLERANCES
 FRACTIONS ±1/8"
 DECIMALS
 .XXX ±.006
 .XX ±.01
 ANGLES ±1/2"
 UNLESS OTHERWISE SPECIFIED

TITLE	ASSEMBLY-HOOD TOP LIGHT ELECTRICAL COMPONENTS	NEXT ASSY	DWG. NO.
NAT'L	SEE ABOVE	REQ'D 1	1454-1
SCALE	1=1	USED ON	MASTER/CLIP
DRWN/DATE		CES	2.14.98

INSINGER Machine Company
 Philadelphia, PA 19138
 (215) 824-4800
 FAX (215) 824-8866

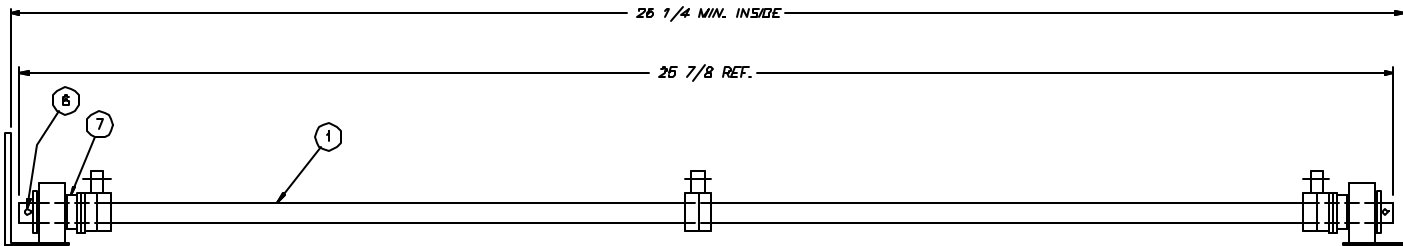
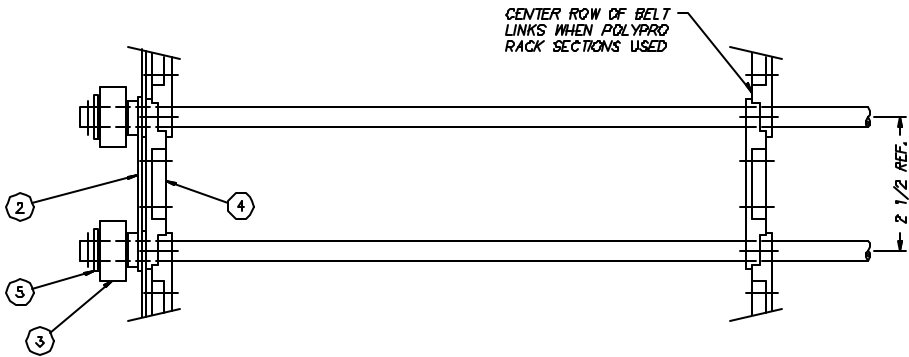
SHEET 2 OF 2




			TOLERANCES	TITLE CONVEYOR ASSEMBLY	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/8"	-	REQ'D -	1100-135
			DECIMALS			
			.XXX ± .005	MAT'L	SCALE	USED ON
			XX ± .01	-	1=2	RACKLESS
			ANGLES ±1/2"	 Insinger Machine Company	Philadelphia, PA 19135 (215) 824-4800 FAX (215) 624-6966	
REV	EDN	ND	DATE		DRWN/DATE	
				NFJ		
FILE PARTS\1100-135			SPECIFIED	6.1.93		

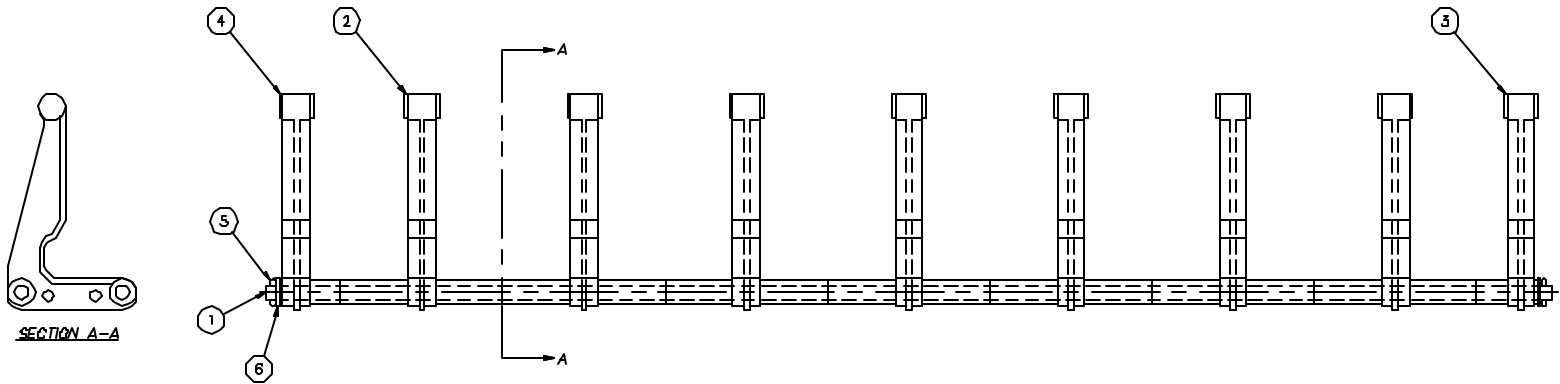
ITEM	PART NO.	SIZE	DESCRIPTION	QTY.
1	1100-136	A	BELT ROD	1
2	D2-737	A	BELT LINK	2
3	D-582	A	ROLLER	2
4	D2-14.2A	A	RACK SECTION SUPPORT	2*
5	D313C-11	-	WASHER, 3/8 ID S/S	2
6	D311-19	-	COTTER PIN	2
7	781-116	A	SPACER	2

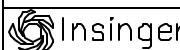
* 3 MTH POLYPRO RACK SECTION

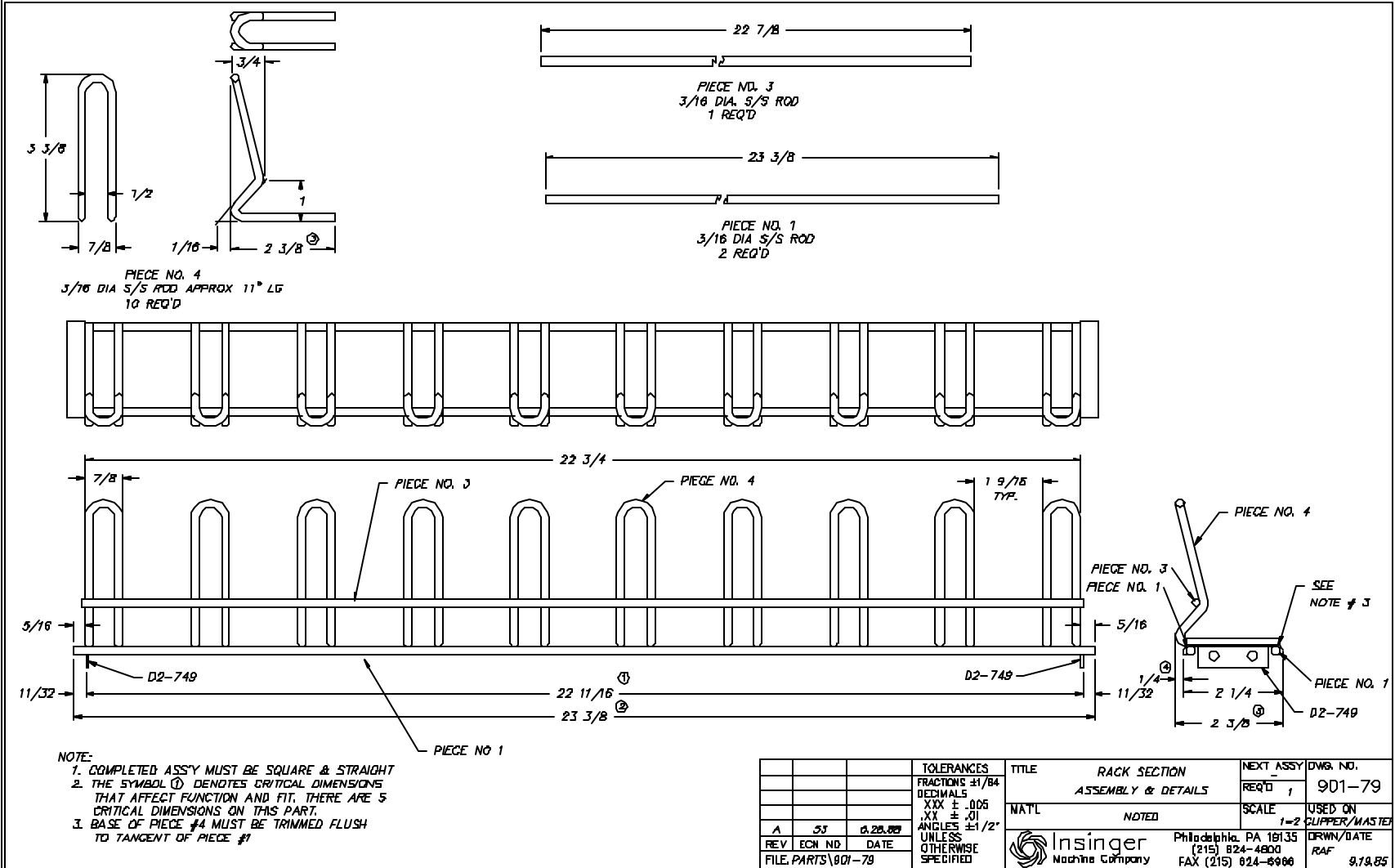


			TOLERANCES	TITLE	BELT ASSEMBLY	NEXT ASSY	DWG. NO.
			FRACTIONS ±1/64		26" CONVEYOR	REQ'D -	1100-135
			DECIMALS				
B	1043	0.284	XXX ± .005	MATL	-	SCALE	USED ON
A	-	0.585	XX ± .01			1=2	MASTER/CLIPPER
REV	EGN NO	DATE	ANGLES ±1/2°	 Philadelphia, PA 19135 (215) 524-4800 FAX (215) 624-8986		DRWN/DATE MFJ	
			UNLESS OTHERWISE SPECIFIED			B 2 94	
FILE: PARTS\1100-135							

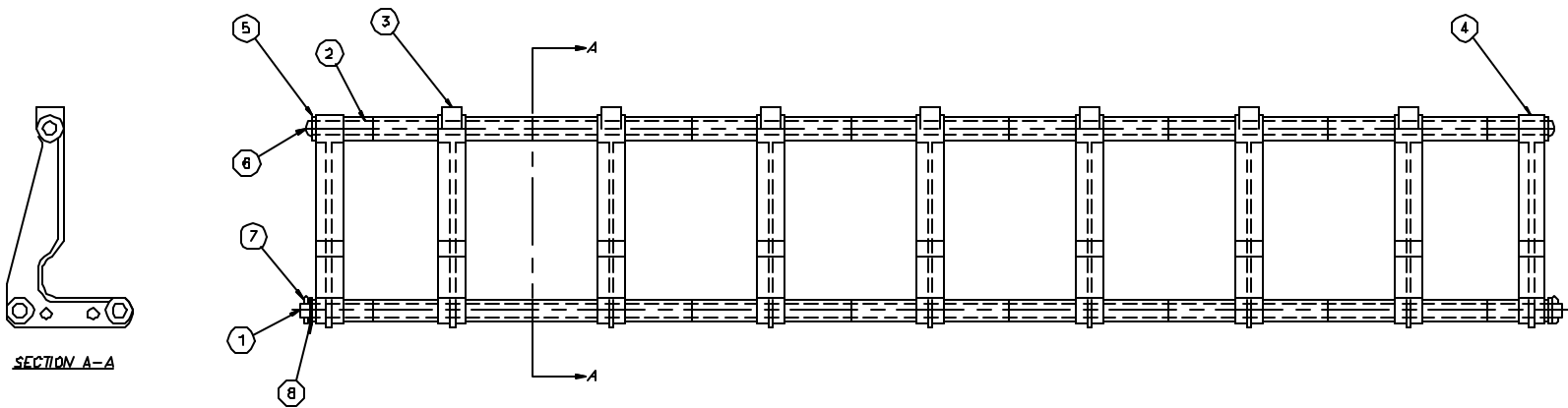
ITEM	PART NO.	SIZE	DESCRIPTION	QTY.
1	1100-13B	A	RACK SECTION ROD, LOWER	2
2	D2-536G	A	PEG	7
3	D2-536J	A	END PEG	1
4	D2-536K	A	END PEG	1
5	D2-852	A	ROD PIN	2
6	D2-736	A	RACK SECTION PLATE	2

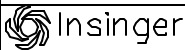


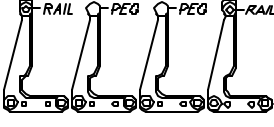
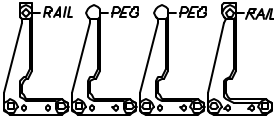
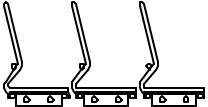
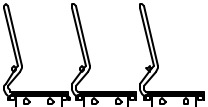
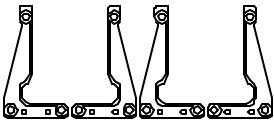
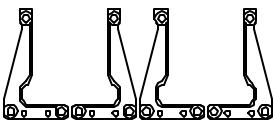
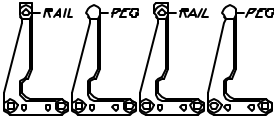
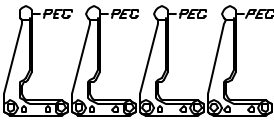
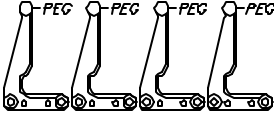
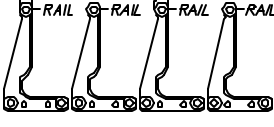
		TOLERANCES		TITLE		NEXT ASSY		DWG. NO.	
		FRACTIONS ±1/64		POLY PEG		-		1100-139	
C		075	3.0.95	RACK SECTION		REQD 1			
		DECIMALS		-		SCALE		USED ON	
B		-	1.2.84	NATL		1=2		MASTER CLIPPER	
		.XXX ± .005		-				DRWN/DATE	
		XX ± .01		-				MFJ	
A		-	17.9.84	 Philadelphia, PA 19135 (215) 824-4800 FAX (215) 624-5955				0.7.95	
REV		EDN	NO	DATE					
				FILE: PARTS\1100-139					
				ANGLES ±1/2°					
				UNLESS OTHERWISE SPECIFIED					



ITEM	PART NO.	SIZE	DESCRIPTION	QTY
1	1100-138	A	RACK SECTION ROD LOWER	2
2	D3-810	A	RACK SECTION ROD UPPER	1
3	D2-538	A	PEG	7
4	D2-536C	A	END PEG	1
5	D2-536D	A	END PEG	1
6	D310-7	-	DRIVE SCREW, #8-32 x 3/8	2
7	D2-852	A	ROD PIN	2
8	D2-736	A	RACK SECTION PLATE	2



E	876	1.4.94	TOLERANCES	TITLE	POLY RAIL	NEXT ASSY	DWG. NO.
D	879	5.6.83	FRACTIONS ±1/64		RACK SECTION	REG'D 7	1100-137
C	816	2.4.83	DECIMALS			SCALE	USED ON
B	-	1.10.88	.XIX ± .005	MATL	-	1-2	MASTER/CLIPPER
A	-	1.2.84	XX ± .01				DRWN/DATE
REV	ECN NO	DATE	ANGLES ±1/2°				MFL
FILE PARTS	7100-137		UNLESS OTHERWISE SPECIFIED		Philadelphia, PA 19133 (215) 824-4800 FAX (215) 824-8886		6.1.83

FULL ASSY	DESCRIPTION	BELT ASSY (LESS RACK SECTIONS)	RACK SECTION(S)	TITLE		TOLERANCES		NEXT ASSY DWG. NO.		FLIGHT CONVEYOR ASSEMBLIES		MATERIAL		DRAWN/DATE	
				FRACCTIONS #/84	DECIMALS	REQD	ASSEMBLIES	SCALE	USED IN	DRWN/DATE					
A	STND 26" WIDE POLYPRO RACK SECTIONS	1100-135	(1) 1100-137 RAIL (2) 1100-138 PEG 					1100-360							
B	STND 31" WIDE POLYPRO RACK SECTIONS	1426-10	(1) 1426-11 RAIL (2) 1426-12 PEG 												
C	STND 26" WIDE S/S RACK SECTIONS	1100-135	901-79 												
D	STND 31" WIDE S/S RACK SECTIONS	1426-10	1426-74 												
E	SPECIAL 26" WIDE POLYPRO RACK SECTIONS "BACK TO BACK" DMN & TIVOLI TRAYS	1100-135	ALL 1100-137 RAILS 												
F	SPECIAL 31" WIDE POLYPRO RACK SECTIONS "BACK TO BACK" DMN & TIVOLI TRAYS	1426-10	ALL 1426-11 RAILS 												
G	SPECIAL 26" WIDE POLYPRO RACK SECTIONS	1100-135	(1) 1100-737 RAIL (1) 1100-739 PEG 												
H	SPECIAL 26" WIDE POLYPRO RACK SECTIONS	1100-135	ALL 1100-139 PEG 												
J	SPECIAL 31" WIDE POLYPRO RACK SECTIONS	1426-10	ALL 1426-12 PEG 												
K	SPECIAL 26" WIDE POLYPRO RACK SECTIONS (TEHACHAPI CO)	1100-135	ALL 1100-137 RAIL 												

PHILADELPHIA, PA 19135
(215) 824-4800
FAX (215) 624-8866
Insinger
11.28.02



6245 State Road
Philadelphia, PA 19135-2996
800.344.4802
215.624.4800
Fax 215.624.6966