Champion

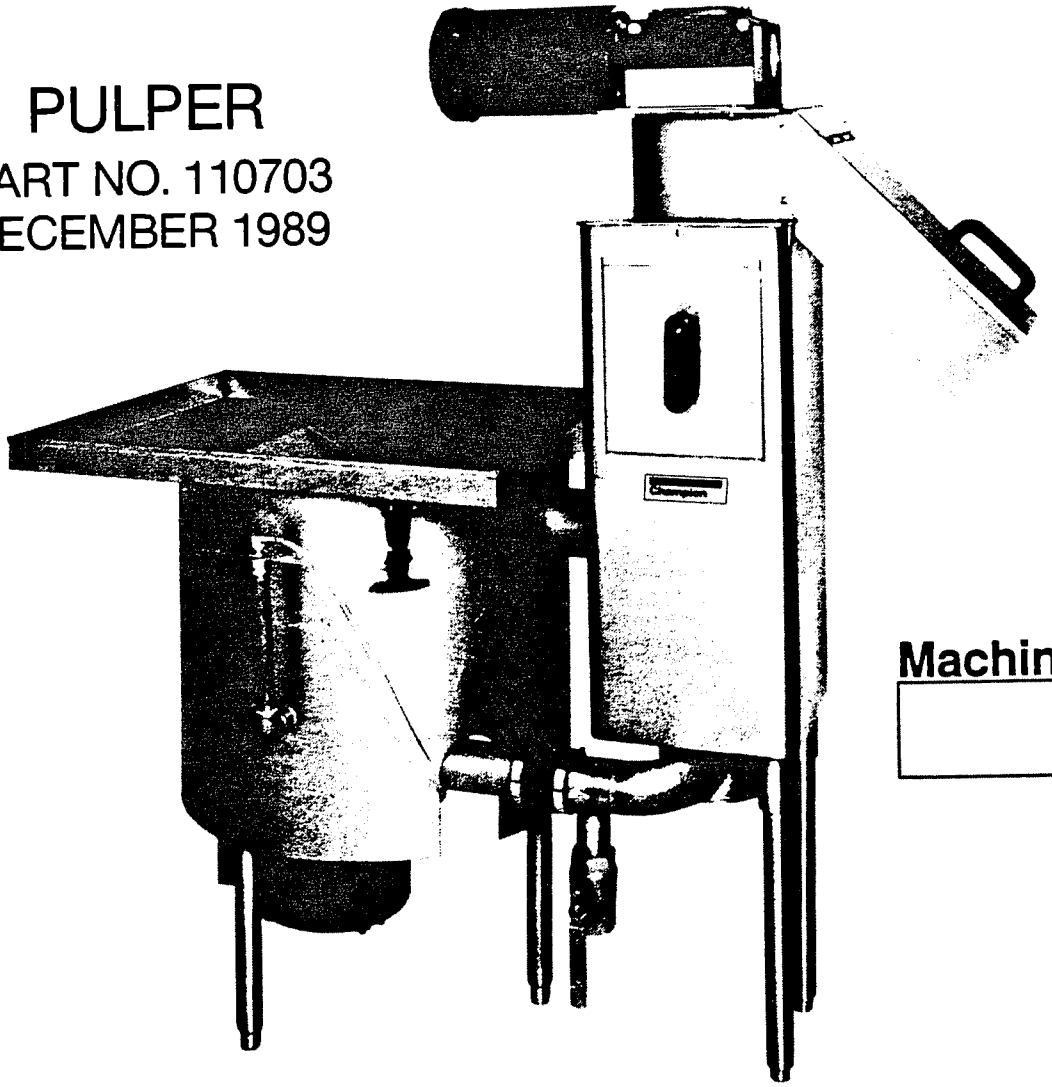
The Dishwashing Machine Specialists

# Equipment Manual

## PULPER

PART NO. 110703

DECEMBER 1989



**Machine Serial No.**

Champion
The Dishwashing Machine Specialists

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The Dishwashing Machine Specialists

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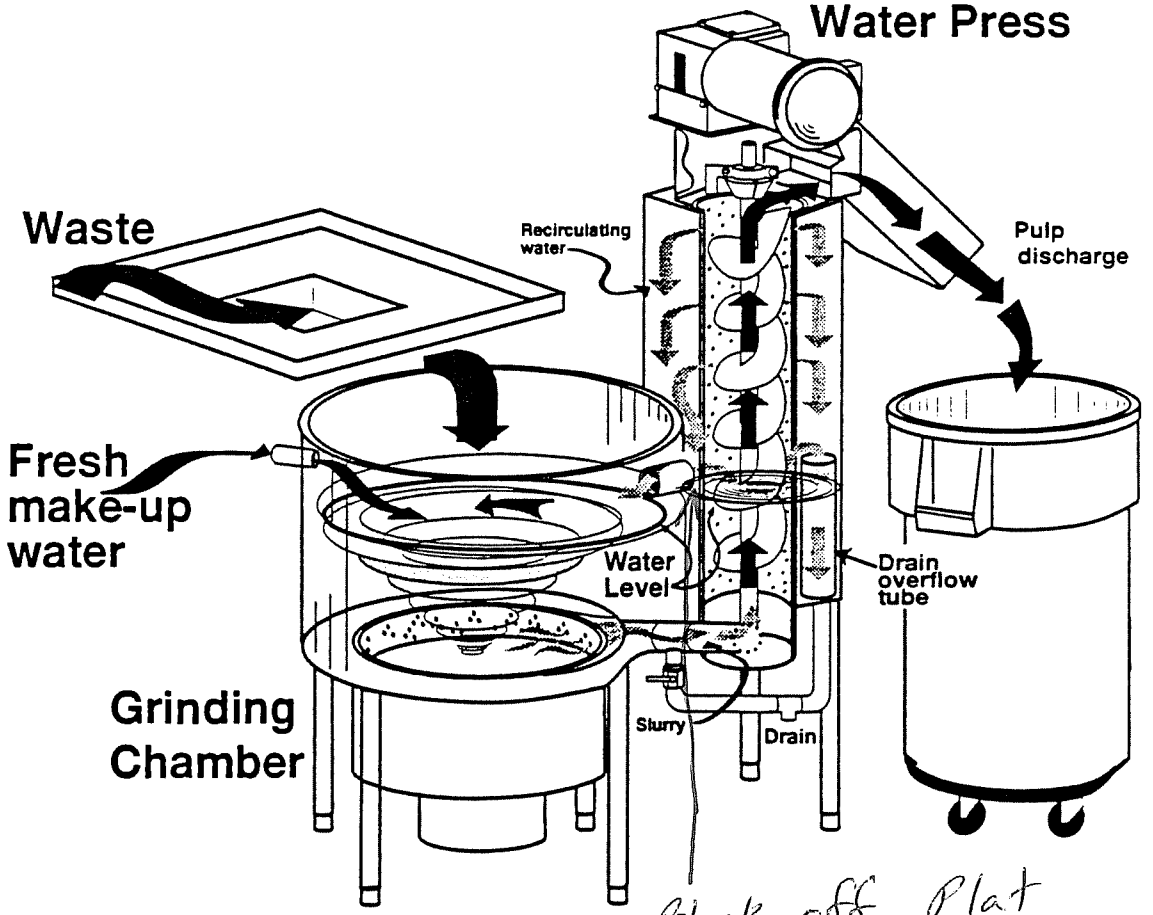


Block off Plat installed when Re-circulating Pump is installed.

Champion

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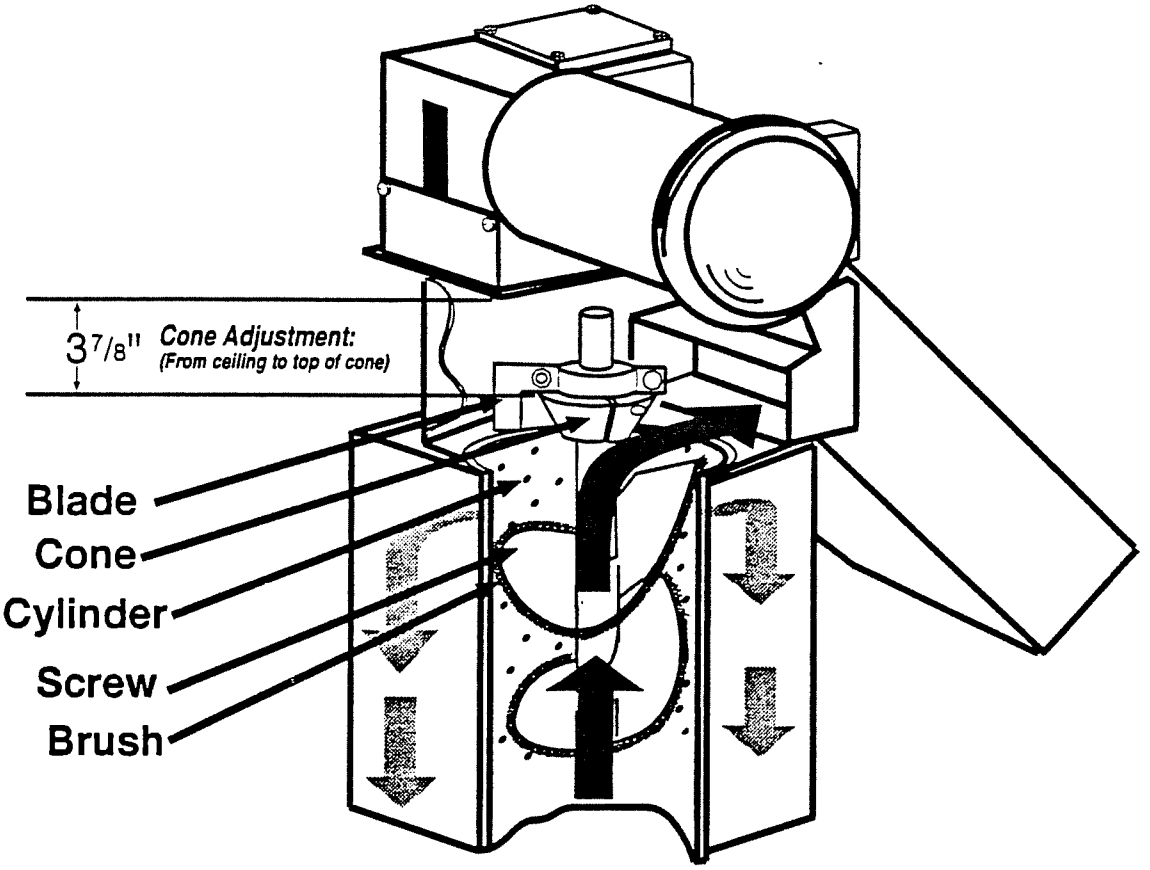
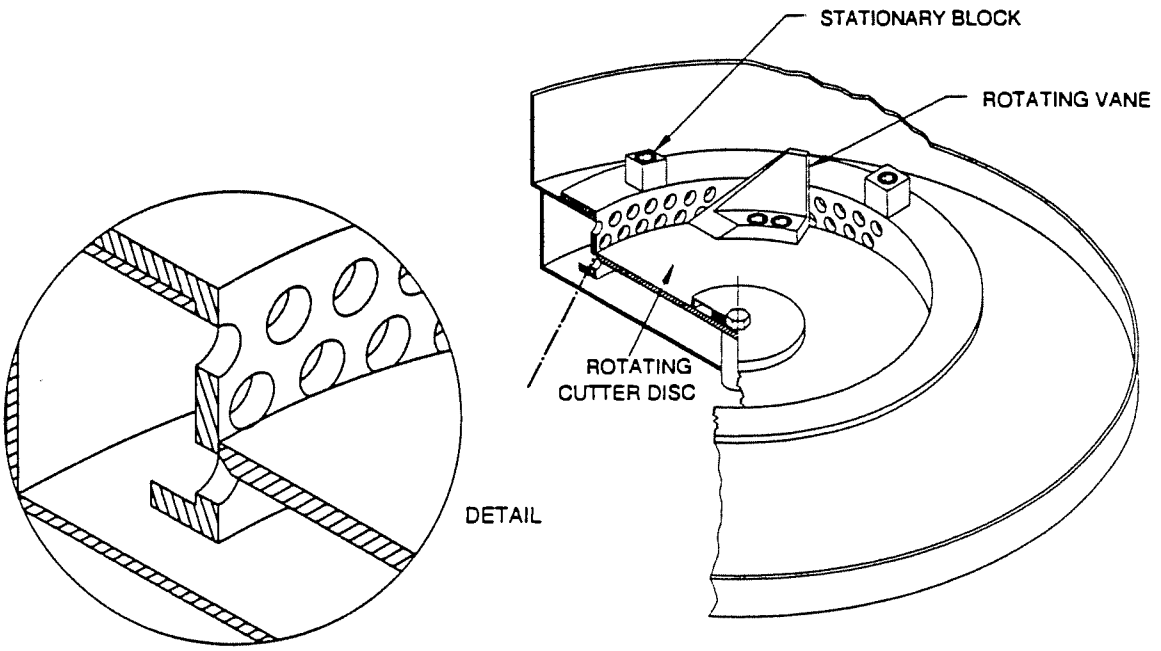
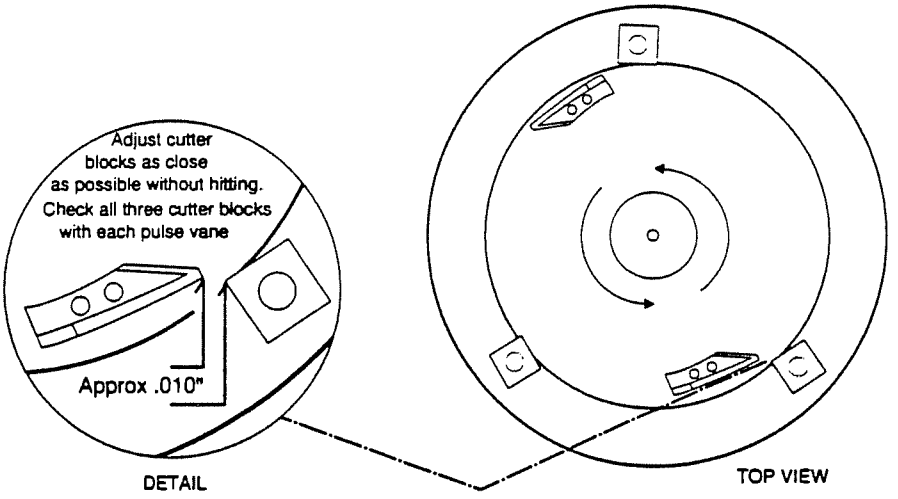
# P-5
# Cone Adjustment



# *P-5 PULPER*
# *STATIONARY CUTTER BLOCK ADJUSTMENT*



## GENERAL INTRODUCTION

This manual contains installation, operating and maintenance instructions for the CHAMPION INDUSTRIES INC., PULPER, Waste Handling System.

Prior to shipment, the unit is completely assembled, inspected and tested at the factory. It is then skidded and wrapped, to facilitate shipment direct to the customer.

When specified, Champion will supervise and/or assist in the installation and make ready for final utility connections by others.

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

Ordering parts: Parts must be ordered through a Champion Authorized Parts Distributor and/or Service Agent. When ordering, give a full description of the equipment (MODEL, SERIAL #, VOLTAGE) and the specific part you are looking for.

Champion maintains records of shipped equipment which can be searched for a specific part. If you have a problem identifying certain parts, contact Champion Service Department directly at 1-800-334-0180, or by FAX 1-919-661-1660.

Due to a continuing product improvement program at Champion, specifications contained in this manual are subject to change without notice.

Champion
The Dishwashing Machine Specialists

# WARRANTY

Champion Industries Inc. (herein referred to as Champion), P.O. Box 4149, Winston-Salem, North Carolina, 27115, warrants all new dishwashing machines of its manufacture bearing the name Champion and installed within the United States to be free from defects in material and workmanship for a period of one (1) year after the date of installation or fifteen (15) months from the date of shipment from the factory, whichever occurs first. (Does NOT include Glasswashers. Warranty on glasswashers - 1 year parts, 90 days labor). The warranty registration card must be returned to Champion within ten (10) days after installation. If warranty card is not returned to Champion within this period, warranty will expire after one year from date of shipment from the factory.

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

If a defect in workmanship or materials is found to exist within the warranty period set forth above, Champion will repair the defect. The labor and work to be performed in connection with the warranty shall be done during regular working hours by a Champion authorized service technician. Defective parts become the property of Champion. Parts replaced within the warranty period carry a warranty of 90 days or until the end of the machinery warranty period, whichever is longer. Use of replacement parts not supplied by Champion will relieve Champion of all future liability and responsibility.

**Not Covered by Warranty:**

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

**Examples of the aforementioned, but without limitations are:** (1) Damage to the exterior or interior finish as a result of the above. (2) Use with utility service other than that designated on the rating plate. (3) Improper connection to utility service. (4) Inadequate or excessive water pressure. (5) Corrosion from chemicals dispensed in excess of recommended concentrations. (6) Failure of electrical components due to connection of chemical dispensing equipment installed by others. (7) Leaks or damage resulting from such leaks as made by installer, including those at machine table connections or by connection of chemical dispensing equipment installed by others. (8) Failure to comply with local building codes. (9) Damage caused by labor dispute.

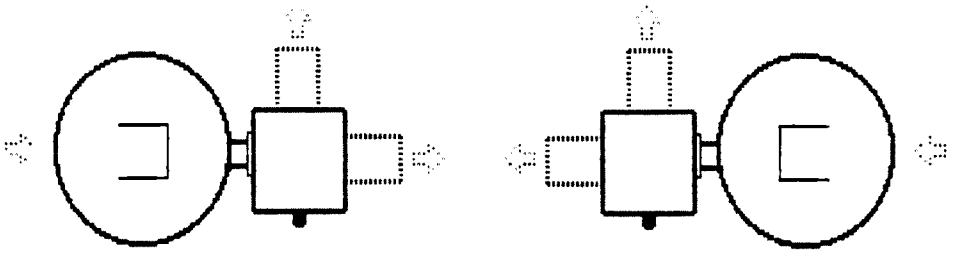
**This Warranty is the only warranty applicable to Champion dishwashing machines and is expressly in lieu of all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and any other obligation on the part of Champion. The remedy contained in this warranty is the sole remedy for any defect found to exist in a Champion dishwashing machine and all other remedies are excluded, including any liability for incidental or consequential damages.**

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

## PULPER

This all stainless steel waste handling system was designed as a free-standing or trough connected shreader/compactor of solid waste material in a food service environment. Two basic configurations are available; a RIGHT HAND and LEFT HAND model, depending on requirements. Although this unit is capable of shreading glass, plastic, cans and wood, these items should be separated for recycling.

TOP VIEW



LEFT TO RIGHT

RIGHT TO LEFT

The 2 horsepower water press, turning at 60 RPM., is complemented with either a 5 or 7 horsepower pulper, with a choice of 3 phase voltage (208/220/380/460). The discharge chute can be clocked to any of two positions and is guarded by a magnetic safety switch.
Four quick release "Dog-Downs" provide easy removal of the curtained load chute pulper top. A magnetic safety switch prevents operation with the cover removed.
A magnetic silver saver is built in to the unit to prevent damage to the 12" cutting head.
An optional 3/4 HP recirculating pump is available, for trough connection, to recirculate extracted water back to the trough to be used for flushing.
A NEMA 12, start/stop station is conveniently mounted on the operator side of the water press.
Control Cabinet may either be mounted directly on the unit or remote.
Simplicity of operation, ease of maintenance, nationwide service and availablity of parts makes this unit a desirable asset to all kitchens.

# P-5 SPECIFICATIONS

## CAPACITIES

| | |
|---|---|
| Food waste | 700 lbs./hr. |
| General waste | 500 lbs./hr. |

## DIMENSIONS

| | |
|---|---|
| Width | 25" |
| Length | 59" |
| Height | 66" |
| Table Height | 33" |
| Trough Height | 25" |
| Discharge Height | 42" |
| Tank | 24" |
| Cutting Disk | 12" |
| Screw | 6"dia. |
| Press Housing | 144 sq.in. |
| Volume crated | 99 cu. ft. |
| Shipping weight | 1000 lbs. |

## UTILITIES

| | |
|---|---|
| Drain | 1 1/2" N.P.T. |
| Inlet Water @ 65°F. | |
| Pulper | 1/2" N.P.T. |
| Power @ 3/60/208 | |
| 5/2 HP | 22 AMPS. |
| Power @ 3/60/220 | |
| 5/2 HP | 19 AMPS. |
| Power @ 3/50/380 | |
| 5/2 HP | 14 AMPS. |
| Power @ 3/60/460 | |
| 5/2 HP | 9 AMPS. |

(Power does not include otional 3/4 HP recirculating pump)

## UNCRATING AND LOCATING

1. Remove and discard the covering. Inspect the machine for "Hidden Damage". If damage is found, report it to the carrier within 15 days.

2. Open the top of the pulper, by releasing the black handles, and you will find an envelope containing the Equipment Manual, a list of Parts & Service Agents and a Warranty Registration Card to be filled out and returned within 10 days.

3. Move the machine ON SKIDS to its final location. DO NOT LIFT ON ANY OF THE PIPING UNDER THE UNIT! Remove the unit from its skid and level it, side-to-side and front-to-back with a "bubble" level. The five feet are adjustable.

4. If the unit is to be attached to a scrapping trough, line up the flanges and bolt holes leaving enough space to apply selastic.

5. You will note that the discharge chute may be rotated to any of three different positions based on customer preference.

6. Mount the control cabinet where specified.

## INSTALLATION

1. PLUMBING;

   Connect to a 1/2" COLD (65°F.) water source.
   If water pressure is greater than 25 P.S.I., install a P.R.V.
   Provide a suitable 1 1/2" gravity drain connection.
   Good plumbing practice is to install a shut off valve on the inlet and increase utility connections one pipe size.
   A spray reel of sufficient length should be available for cleaning.
   Refer to ASME NATIONAL PLUMBING CODE.

2. ELECTRICAL;

   The Control Cabinet must be located within sight of the unit and requires a separate circuit.
   The Start/Stop station should be within sight and reach of the operator.
   Check the Data plate on the Control Cabinet for the proper voltage and amps. required before connection.
   The unit was phased at the factory. Check rotation of the screw, it should rotate counter-clockwise. Rephasing must be done at the Control Cabinet, not at the motors.
   Refer to NATIONAL ELECTRIC CODE.

3. OPTIONS AVAILABLE;

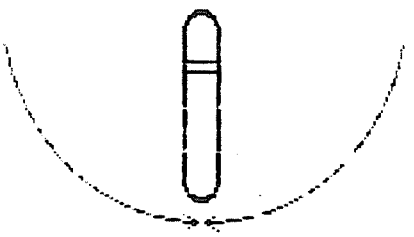
   Inlet water, P.R.V.; Shutoff Valve, Strainer
   Feed Hood & tray (free standing)
   Undercounter Hood & Cover (table mounted)
   Water Press Flushing Spray System
   Plumbing Code Piping (w/o backflow preventer)
   Deodorizer Injector
   Hose Reel
   Scrap trough with Silver-Saver
   Recirculating pump

## OPERATION

1. Make sure the pulper tank is clean and empty and the cover installed.

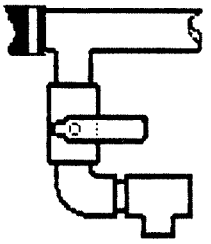
2. Make sure the water press is clean and empty and the chute lid closed.

3. Make sure the overflow handle (rear of water press) is in the closed position.



(CLOSED)

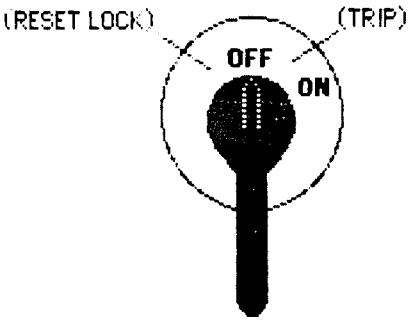
4. Make sure the drain handle (front) is in the closed position.



(CLOSED)

5. Make sure you have turned the water "ON" and placed a container under the discharge chute

6. The rotary handle (4 positions) on the control cabinet is equipped with a squeeze trigger which prevents the handle from being rotated in the "RESET LOCK" position. The handle must be squeezed and rotated all the way clockwise to the "ON" position. The "POWER" red light should be illuminated.




7. Pressing the "START" button (Green) activates the fill valve and starts the pulper/drive motors. As the pulper tank fills up, the pressure switch will deactivate the fill. The seal flushing valve will be open whenever the pulper motor is running. During operation the pressure switch will maintain the proper water level.

8. Pressing the "STOP" button (Red) puts the unit in 'standby' while the container is changed under the discharge chute. Feeding paper or cardboard prior to shut-down will aid in clearing food particles thru the unit.

9. At the end of a 'run' or day, add 1/2 cup of non-foaming detergent to the pulper and operate the unit for 10 minutes.

10. The rotary switch on the Control Cabinet must be rotated to the "RESET LOCK" position before any attempt is made to open doors or cover.

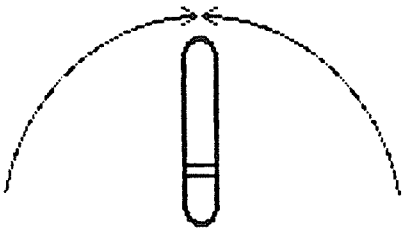
**DO NOT ATTEMPT CLEANING WITH POWER ON!**

11. Open the drain valve and allow the unit to drain completely.

(OPEN)

12. Open the overflow tube by rotating the handle to the "UP" position.

(OPEN)



13. Remove the pulper cover and clean the interior. CAUTION! BE CAREFUL NOT TO CUT YOURSELF ON THE PULSING VANES, THEY ARE SHARP!

14. Remove the water press cover and clean the screen.

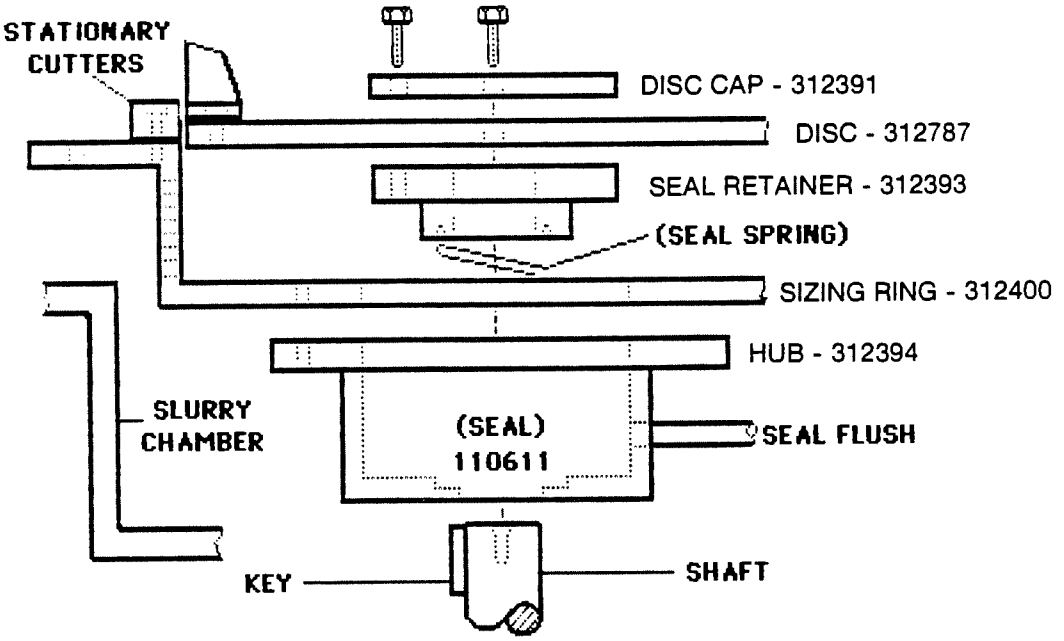
15. Raise the discharge chute cover and clean the wiper/cone at the top of the screw.

**CLEANING AT LEAST ONCE A DAY WILL PREVENT ODORS!**

## PULPER DRIVE

The 5 horsepower 3/MV, TEFC direct drive motor, is located on the bottom of the pulper tank. The 5 HP, 208-480, 60 HZ motor is part #110495, and the 380, 50 HZ motor is part #180196. Always replace the seal when changing the motor.

To replace the seal, remove the bolt in the center of the disc cap, remove the cap and disc to expose the seal.




## PULPER CUTTER

Three pulper cutter blocks are attached to the sizing ring. These blocks may be rotated to present a new cutting surface as the old surface becomes dull. A 3/8" Allen wrench is required to remove or reclock.

## PULSING VANE

The two pulsing vanes are bolted to the top of the pulper disc and revolve counter-clockwise past the sizing ring holes and the three cutter blocks creating both a shearing action and suction vortex, reducing the waste to a macerated slurry and forcing it thru the sizing ring holes to be passed to the bottom of the water press tank.

## WATER PRESS DRIVE

The 2 horsepower, 3/MV, TEFC motor, located on the top of the water press, is connected to a 30:1 angle gear reducer driving the vertical screw. Check gear oil in the reducer (top plug) during the first 80 hours of operation; again at 250 hours and after 2500 hours of operation. The oil level should be up to the edge of the plug. Use SAE 90 (TRANS./DIFFER.)

## WATER PRESS SCREW

The rotating screw, inside the water press screen, is driven by the gear reducer and is removable thru the top of the water press housing. If low ceiling prevents vertical extraction, unbolt the return flange and disconnect the rubber drain sleeve. Separate the pulper from the water press housing and lay the water press housing on its side.

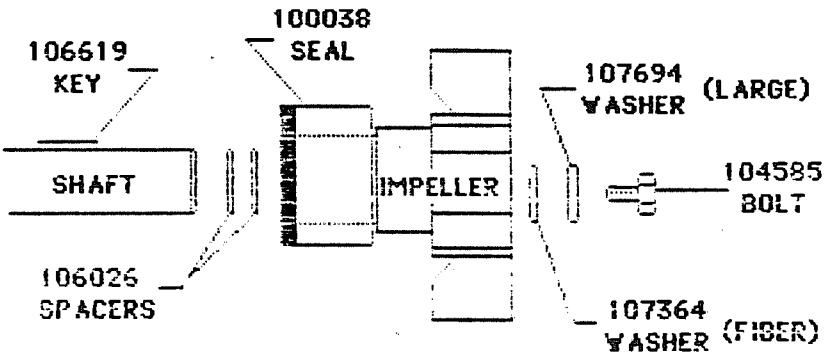
## WATER PRESS SCREEN

This stationary cylindrical perforated screen has a round cutout at the bottom which is oriented toward the front of the press housing, and allows pulp to enter the screw. It is removable thru the top of the press housing. If low ceiling prevents vertical extraction, unbolt the return flange and disconnect the rubber drain sleeve. Separate the pulper from the water press housing and lay the press housing on its side.

## RECIRCULATING PUMP (OPTIONAL)

The 3/4 horsepower, 3/MV, TEFC direct drive pump is located at the bottom of the water press tank. This pump is used in conjunction with a scrap trough, providing water from the water press, to be used for trough flushing.

To replace the seal or motor, remove the pump from the tank, for bench tear-down. Always replace the seal when replacing the motor.



## SOLENOID VALVES

Mounted at the back of the pulper, is a normally closed (1/2") fill and (1/4") seal flush, 120V solenoid valve. The 1/2" valve is for filling and maintaining the water level. The 1/4" valve is for seal flushing and is only open when the pulper motor is active. These valves are equipped with coils which have LED connectors. The red LED will glow when the valve is active.
Repair kits are available for these valves; 1/4" (109901), 1/2" (109902)

## BACK-FLOW PREVENTER

Located at the back of the pulper, this 1/2" connection provides one-way, fill and seal flush fresh water to both solenoid valves.

## PRESSURE SWITCH

The NEMA 4 pressure switch is mounted on the back of the water press and must be higher than the water level in the pulper. The switch is adjustable from 0 to 20" water column (with set point indicator). The differential is 1" water column. This switch has been factory set and requires no maintenance. The pressure tubing must be air tight for this system to funtion properly.

## PRESSURE SNUBBER

The 1/4" flow restrictor is screwed into the bottom of the pressure switch and acts as a surge suppressor to the air pressure in the tubing connected to the air chamber on the side of the pulper.

## SAFETY INTERLOCK SWITCHES

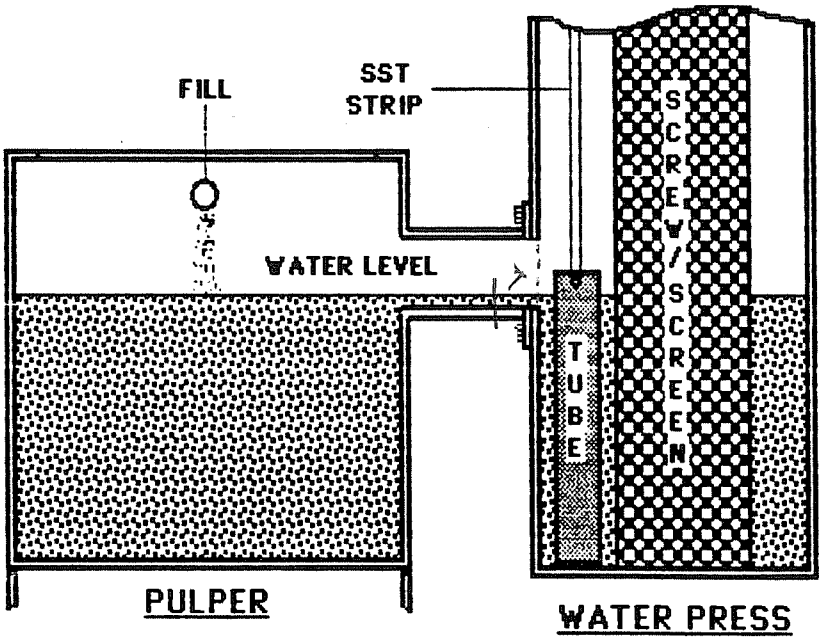
Two magnetic safety switches are employed; one on the pulper cover and the other on the discharge chute lid. The 24V system requires that both switches be closed (continuity) before the unit will operate. The transformer and holding relay are located in the control cabinet.

## SILVER SAVER

Mounted under the pulper tub at the rear, is a permanent magnet held in place by a bracket. It is designed to attract metals to the tub bottom, upstream of the baffle plate (counterclockwise vortex). Any item collected by the magnet will begin to oxidize, therefore, this cavity must be kept clean
NOTE, STAINLESS STEEL AND ALUMINUM ARE NOT MAGNETIC!

## OVERFLOW

Located at the bottom of the water press tank, the overflow is actually a tube within a tube. The inner tube is notched at the base to allow water to exit. The outer tube is lowered and raised by a stainless steel strip connected to an eccentric handle mounted on the rear of the water press tank. In the closed position, excess water will exit over the top of the outer tube and into the main drain, downstream of the drain valve. When the outer tube is raised, water will exit thru the bottom inner tube notches to the main drain.



# SERVICE TIPS

| CONDITION | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| Machine will not start | Main switch off | Check disconnect |
| | Defective fuse | Replace fuse |
| | Cover unlatched | Check latches |
| | Chute lid open | Close lid |
| | Circuit breaker-OUT | Reset breaker-IN |
| | Defective hold-in-relay | Check relay |
| No water. | Inlet water turned OFF | Open valve |
| | Circuit breaker-OUT | Reset breaker-IN |
| | Defective hold-in-relay | Check relay |
| | Defective valves | Check valve LED |
| Any motor not running. | Defective fuse | Replace fuse |
| | Defective hold-in-relay | Check relay |
| | Circuit breaker tripped | Reset breaker |
| | Defective motor | Check OHM/AMPS |
| Continuous water filling. | Leak in air system | Check system |
| | Pressure snubber blocked | Clean |
| | Pressure switch failure | Replace |
| | Open fill valve | Clean or replace |
| | Open drain or overflow | Check |

## ELECTICAL SYSTEMS

This unit is tailored to the customers building requirements which considers, voltage, number of motors, horsepower, valves, switches, lights and options, therfore, no two wiring schematics will be the same. For this reason, each machine is shipped with it's own custom control cabinet and wiring diaghram (by serial #).
The basic machine requires 3 phase power (208/220/380/460) from the building. The control circuit operates on 120 VAC with saftey switches using 24 VAC.

From a service standpoint, a good electrical technican can trouble-shoot the electical system on the machine with nothing more than a good quality VOA meter.

Abbreviations, symbols and numbers are used on the schematics to aid the technician in tracing a circuit.

**DO NOT USE MACHINE AS GROUND DURING VOLTAGE CHECKS!**

For the above reasons, only sample material lists and schematics have been shown in this manual and are to be used only as a guide for application - NOT FOR ORDERING REPLACEMENT PARTS!

ELECTRICAL REPLACEMENT PARTS ARE TO BE ORDERED BY SERIAL# ONLY!

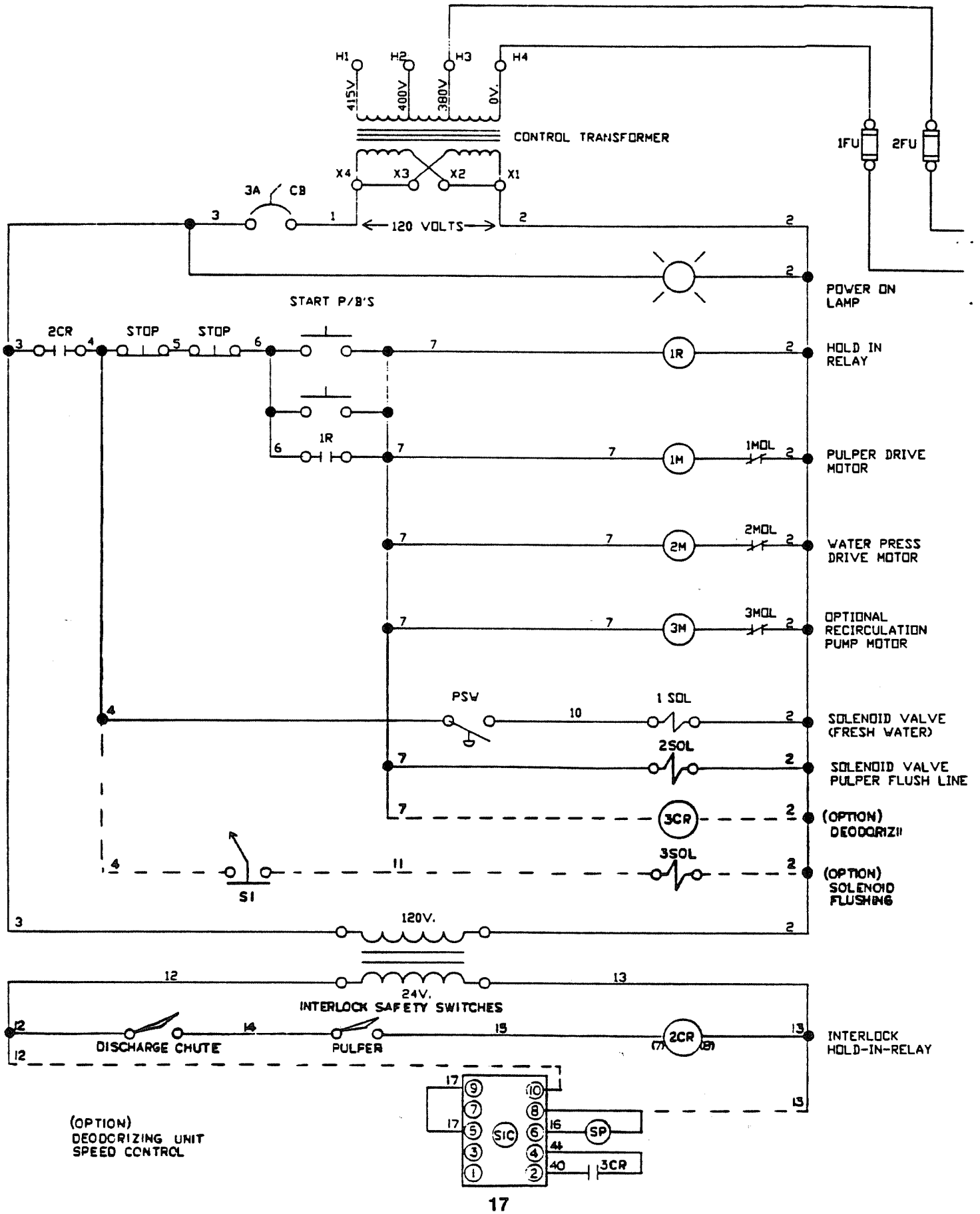
It would be helpful if a location and description of the part, or it's function, accompany the request for replacement.

As new electrical components become available they are incorporated on the machines during production rather than waiting for a new model year.

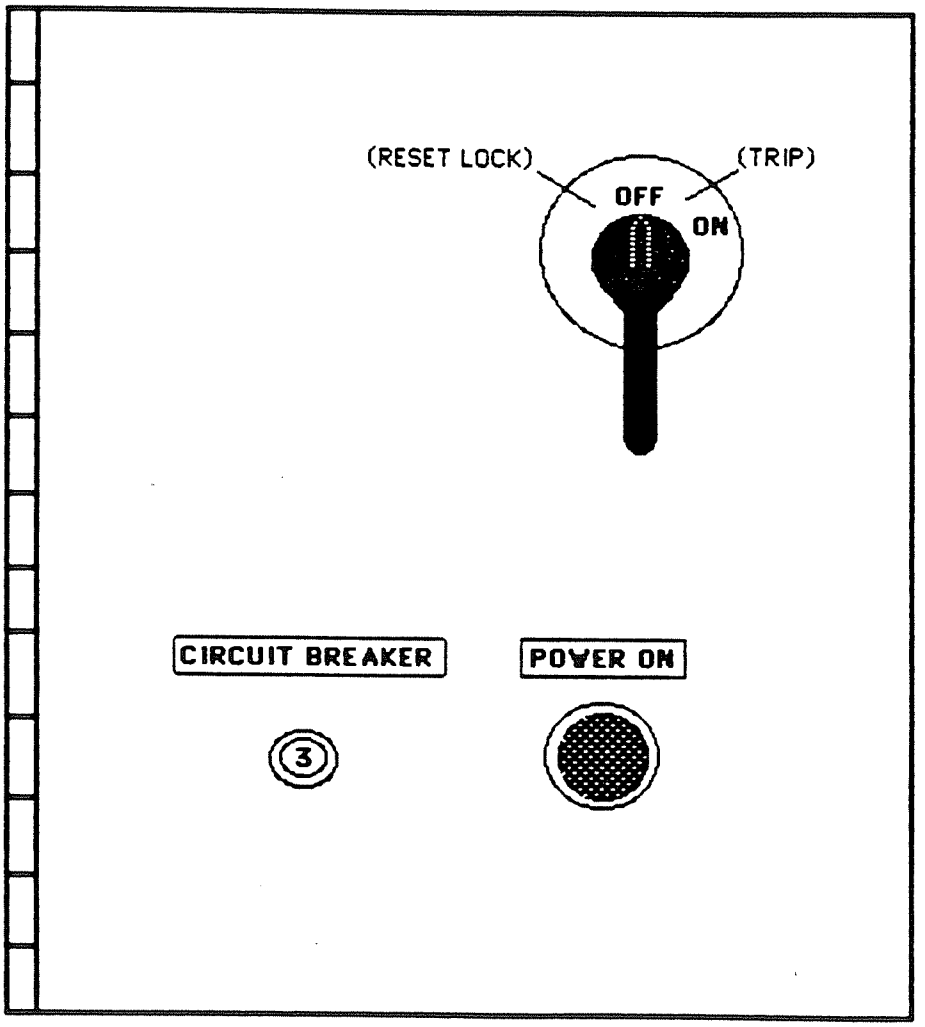
# ELECTRICAL LEGEND

| LEGEND | DESCRIPTION |
|---|---|
| CB | CIRCUIT BREAKER |
| P/B | PUSH BUTTON |
| PSW | PRESSURE SWITCH |
| 1,2FU | MOTOR FUSE |
| 1,2,3MOL | MOTOR OVERLOAD |
| 1,2SOL | SOLENOID VALVE |
| 1R | HOLD-IN-RELAY |
| 2CR | INTERLOCK RELAY |
| T1 | CONTROL TRANSFORMER |
| 1,2,3M | MOTOR |

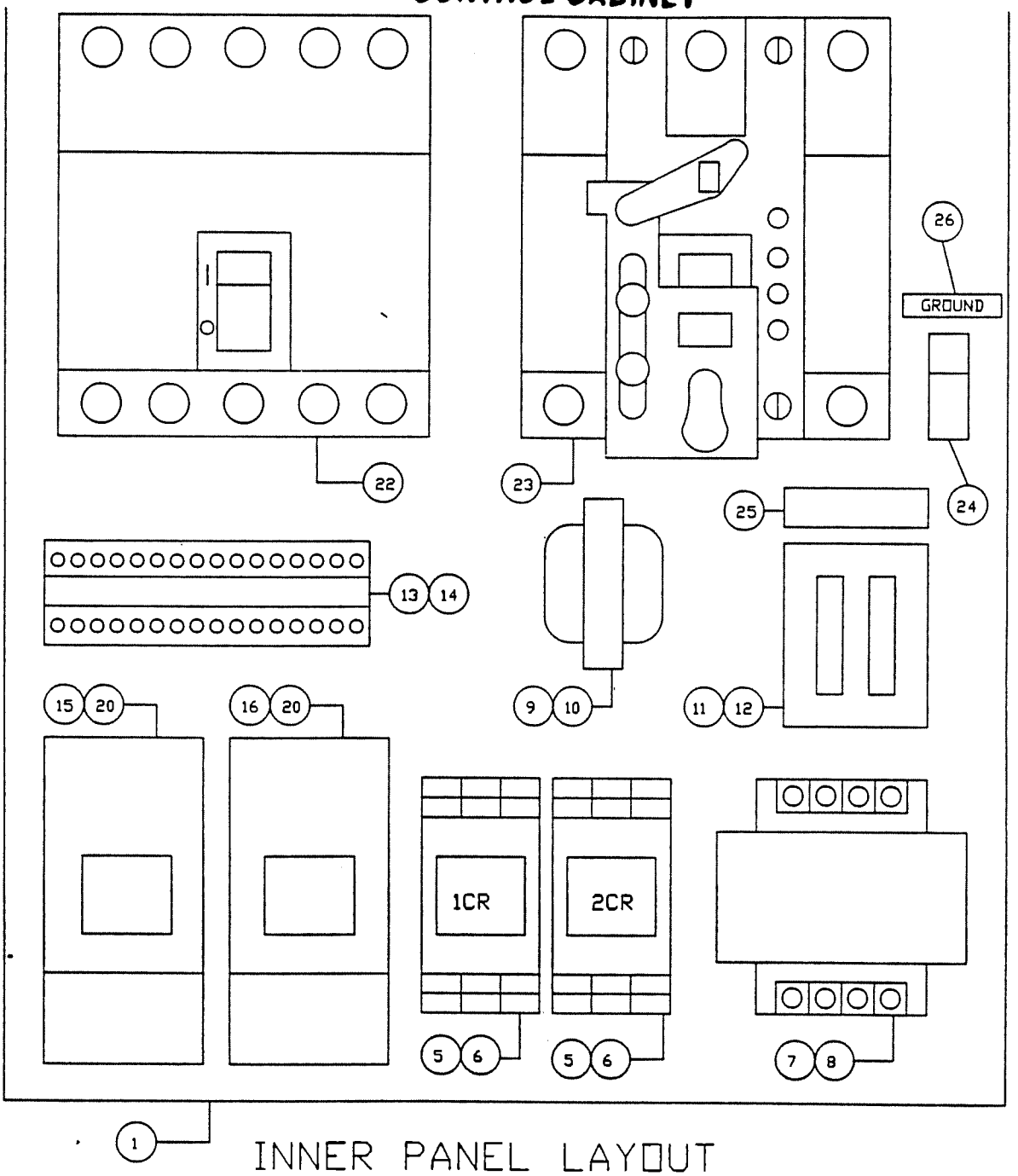
# WIRING SCHEMATICS



# CONTROL CABINET



## CONTROL CABINET




INNER PANEL LAYOUT

| AUTHENTICATION | |
|---|---|
| DR. BY | DG |
| DATE | 4/18/88 |
| CH. BY | |
| DATE | |
| APP. BY | |
| DATE | |

20

CHAMPION

TITLE: PULPER/CABINET LAYOUT

C | 700956 | REV A

SCALE | SHEET 1 OF 1

## 405907 COM PTS PULPER 208 THRU 480

| PART # | ITEM # | DESCRIPTION | QTY |
|---|---|---|---|
| C700955 | | PULPER SCHEMATIC | |
| C700956 | | PULPER CONT. CAB. | |
| 106975 | | LABEL 1CR | 1 |
| 106976 | | LABEL 2CR | 1 |
| 106980 | | LABEL 1M | 1 |
| 106981 | | LABEL 2M | 1 |
| 107098 | | LABEL XFMR | 1 |
| 107099 | | LABEL 1MOL | 1 |
| 107100 | | LABEL 2MOL | 1 |
| 108131 | | TRACK BND | 1 |
| 108498 | | LABEL AMP | 1 |
| 110520 | | PHOENIX TRACK | 1 |
| 110521 | | PHOENIX TIE | 1 |
| 312583 | 1 | INNER PANEL | 1 |
| 111036 | 5 | SOCKET (IDEC) | 2 |
| 111067 | 6 | RELAY 24VAC | 1 |
| 111068 | 6 | RELAY 120VAC | 1 |
| 108129 | 9 | TRANSFORMER 120V | 1 |
| 110518 | 13 | PHOENIX TERM | 1 |
| 110519 | 14 | PHOENIX END | 1 |
| 108122 | 20 | CONTACTOR LC1 | 1 |
| 109582 | 21 | CONTACTOR TELE | 1 |
| 110586 | 22 | CIRCUIT BREAKER | 1 |
| 110541 | 23 | SWITCH DISC. | 1 |
| 103309 | 24 | WIRE LUG | 1 |
| 104873 | 26 | NAMEPLATE GND | 1 |
| 100302 | 40 | PILOT LIGHT 120V | 1 |
| 108311 | 41 | CIRCUIT BREAKER | 1 |
| 110612 | 43 | LABEL CKT BRK | 1 |
| 110628 | 44 | LABEL PWR ON | 1 |
| 313114 | | CONT CAB | 1 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405248 | | CONT CAB PULP208-240 5/2HP | |
| 109583 | | OVERLOAD RELAY LR1-D25322 | 1. |
| 110589 | | CIRCUIT BREAKER SQ-D 45A | 1. |
| 405252 | | COM PTS PULPER 208-240V | 1. |
| 405880 | | PULPER KIT RECIRPMP208-240 | 0.0 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405249 | | CONT CAB PULP208-240 7/2HP | |
| 110590 | | CIRCUIT BREAKER SQ-D 60A | 1. |
| 110591 | | OVERLOAD RELAY LR1D40355 | 1. |
| 405252 | | COM PTS PULPER 208-240V | 1. |
| 405880 | | PULPER KIT RECIRPMP208-240 | 0.0 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405880 | | PULPER KIT RECIRPMP208-240 | |
| 107101 | | LABEL 3MOL | 1. |
| 108116 | | OVERLOAD RELAY LR1D09308 | 1. |
| 108122 | | CONTACTOR LC1-D123 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405252 | | COM PTS PULPER 208-240V | |
| 107005 | | FUSE BLOCK 30 AMP250V 2POL | 1. |
| 108389 | | OVERLOAD RELAY LR1D09314 | 1. |
| 108506 | | FUSE2.5 250V/TR/FRNR/CRNR | 2. |
| 405254 | | COM PTS PULPER 208-240-480 | 1. |

| PART.NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405254 | | COM PTS PULPER 208-240-480 | |
| 109064 | | TRANSFORMER B250BTZ13JK | 1. |
| 405907 | | COM PTS PULPER 208THRU480 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405904 | | CONT CAB PULPER 380V 5/2HP | |
| 108120 | | OVERLOAD RELAY LR1D12316 | 1. |
| 110587 | | CIRCUIT BREAKER SQ-D 25A | 1. |
| 405906 | | COM PTS PULPER 380V | 1. |
| 405908 | | KIT-PULPER RECIRC 380V | 0.0 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405905 | | CONT CAB PULPER380V7.5/2HP | |
| 108350 | | OVERLOAD RELAY LR1D16321 | 1. |
| 110588 | | CIRCUIT BREAKER SQ-D 30A | 1. |
| 405906 | | COM PTS PULPER 380V | 1. |
| 405908 | | KIT-PULPER RECIRC 380V | 0.0 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405908 | | KIT-PULPER RECIRC 380V | |
| 107101 | | LABEL 3MOL | 1. |
| 108117 | | OVERLOAD RELAY LR1D09307 | 1. |
| 108122 | | CONTACTOR LC1-D123 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405906 | | COM PTS PULPER 380V | |
| 100906 | | FUSE 5 AMP CTK-R5 | 2. |
| 106402 | | FUSE BLOCK 600V 30AMP | 1. |
| 108121 | | OVERLOAD RELAY LR1D09310 | 1. |
| 108860 | | TRANSFORMER B250RFD34XJ | 1. |
| 405907 | | COM PTS PULPER 208THRU480 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405250 | | CONT CAB PULPER 480V 5/2HP | |
| 108389 | | OVERLOAD RELAY LR1D09314 | 1. |
| 110587 | | CIRCUIT BREAKER SQ-D 25A | 1. |
| 405253 | | COM PTS PULPER 480V | 1. |
| 405879 | | PULPER KIT RECIRC PMP 480 | 0.0 |

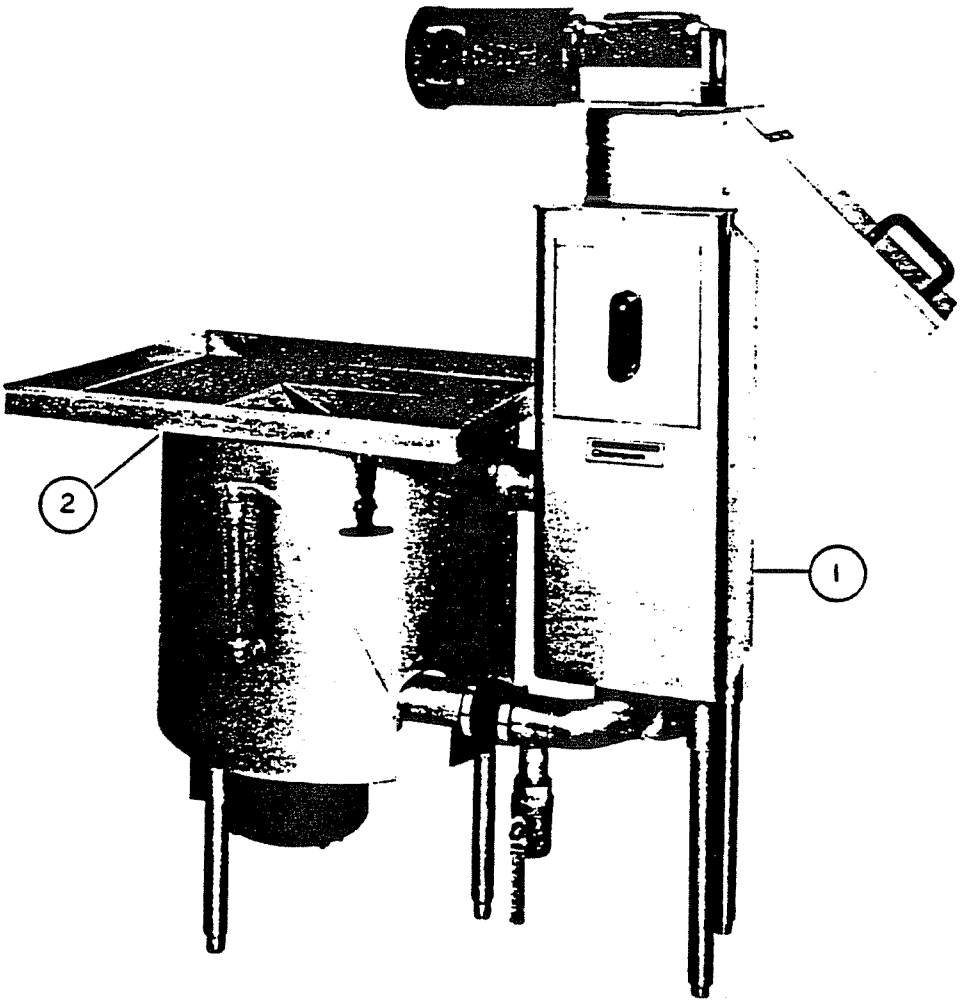
| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405251 | | CONT CAB PULPER 480V 7/2HP | |
| 108350 | | OVERLOAD RELAY LR1D16321 | 1. |
| 110588 | | CIRCUIT BREAKER SQ-D 30A | 1. |
| 405253 | | COM PTS PULPER 480V | 1. |
| 405879 | | PULPER KIT RECIRC PMP 480 | 0.0 |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405879 | | PULPER KIT RECIRC PMP 480 | |
| 107101 | | LABEL 3MOL | 1. |
| 108117 | | OVERLOAD RELAY LR1D09307 | 1. |
| 108122 | | CONTACTOR LC1-D123 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405253 | | COM PTS PULPER 480V | |
| 100906 | | FUSE 5 AMP CTK-R5 | 2. |
| 106402 | | FUSE BLOCK 600V 30AMP | 1. |
| 108121 | | OVERLOAD RELAY LR1D09310 | 1. |
| 405254 | | COM PTS PULPER 208-240-480 | 1. |

| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405254 | | COM PTS PULPER 208-240-480 | |
| 109064 | | TRANSFORMER B250BTZ13JK | 1. |
| 405907 | | COM PTS PULPER 208THRU480 | 1. |

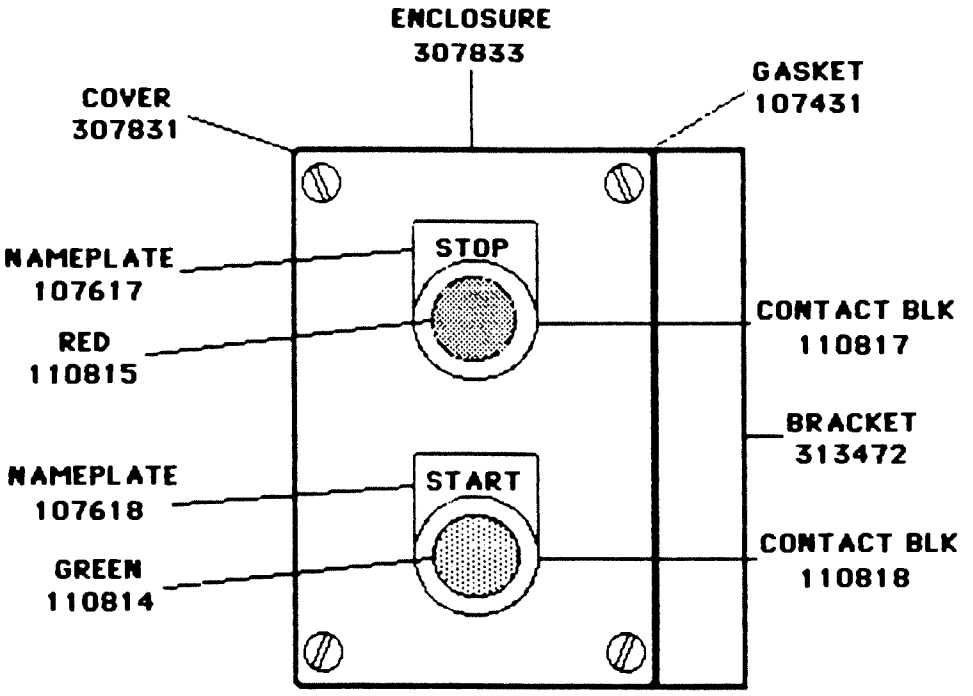
# MAIN ASSEMBLY




| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| P500656 | | PULPER MAIN ASSY,IN-LINE | |
| P451453 | 1 | PULPER-WATER PRESS INSTAL. | 1. |
| P451454 | 2 | PULPER-IN LINE TANK INSTAL | 1. |
| 405248 | 3 | CONT CAB PULP208-240 5/2HP | 1. |

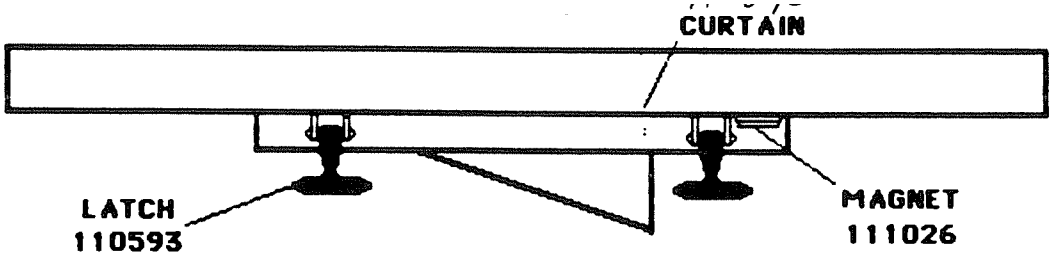
| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| P500667 | | PULPER,5HP 208V,INLINE& LH | |
| P451454 | 1 | PULPER-IN LINE TANK INSTAL | 1. |
| P451480 | 2 | PULPER-WATER PRESS LH INST | 1. |
| 405248 | 3 | CONT CAB PULP208-240 5/2HP | 1. |

# START/STOP STATION

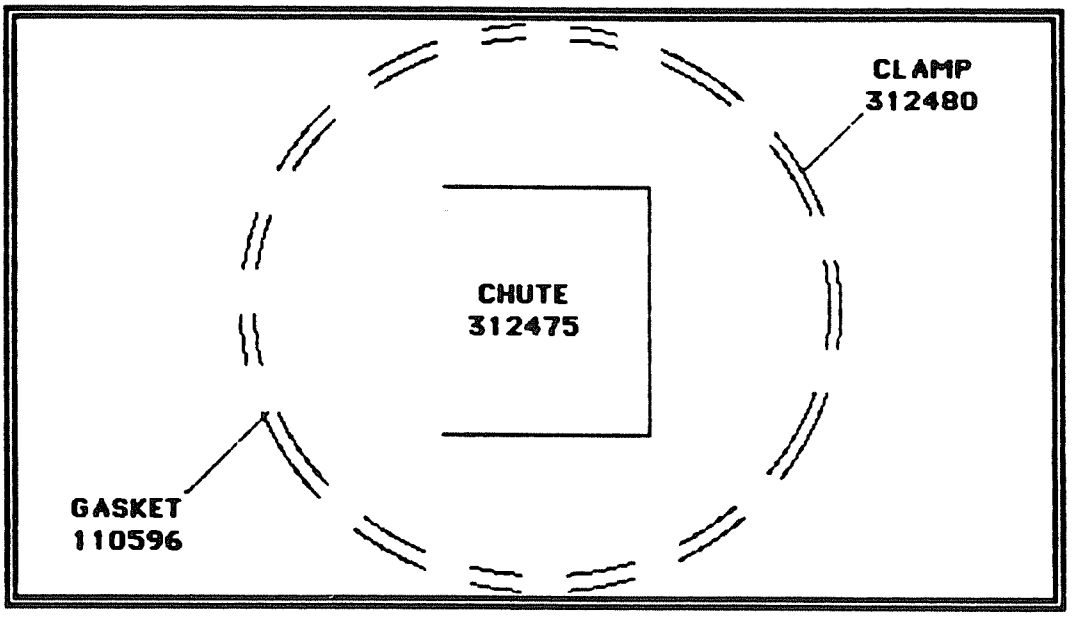



ASSEMBLY
406225

# PULPER COVER

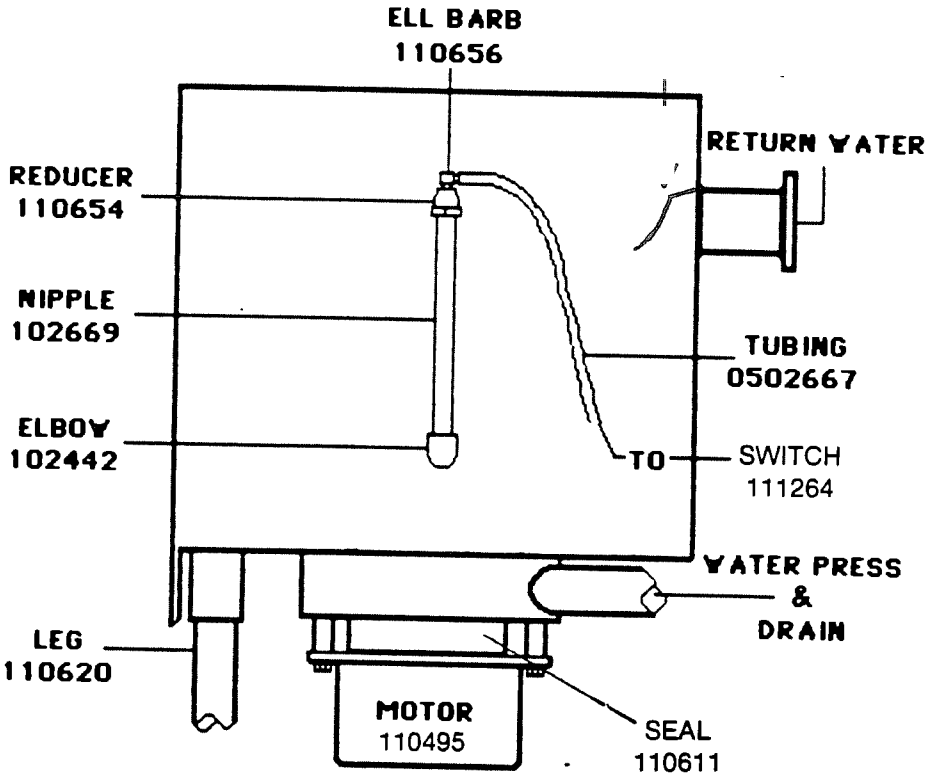



SIDE VIEW



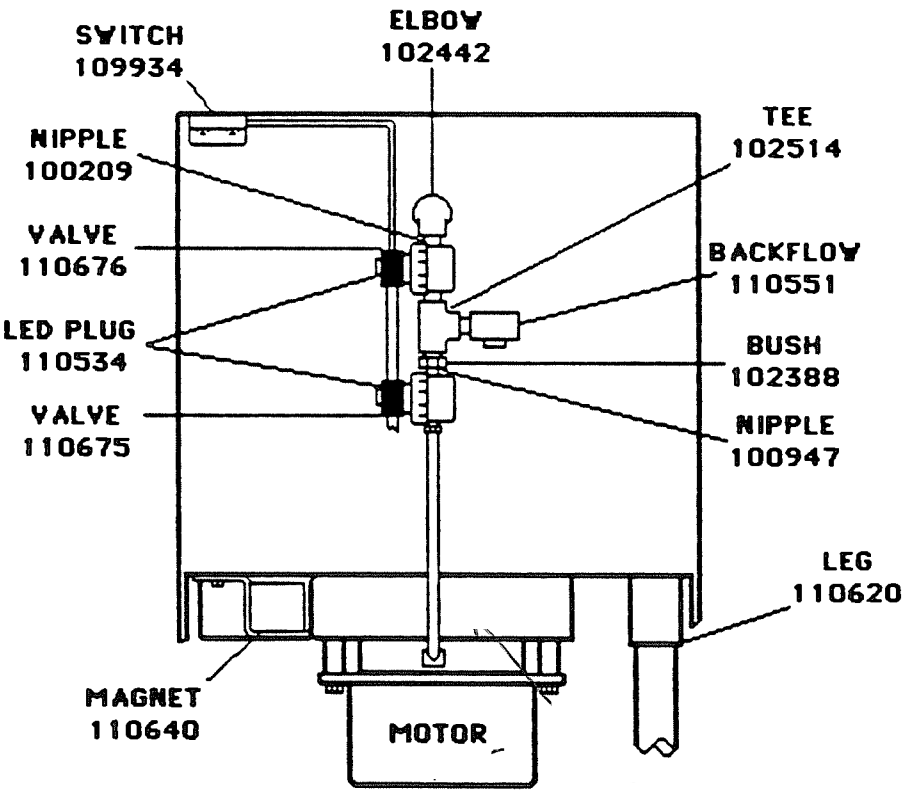

TOP VIEW

# PULPER
# WATER LEVEL CONTROL




FRONT VIEW
(SKIRT REMOVED)

# PULPER
# FILL & SEAL FLUSH

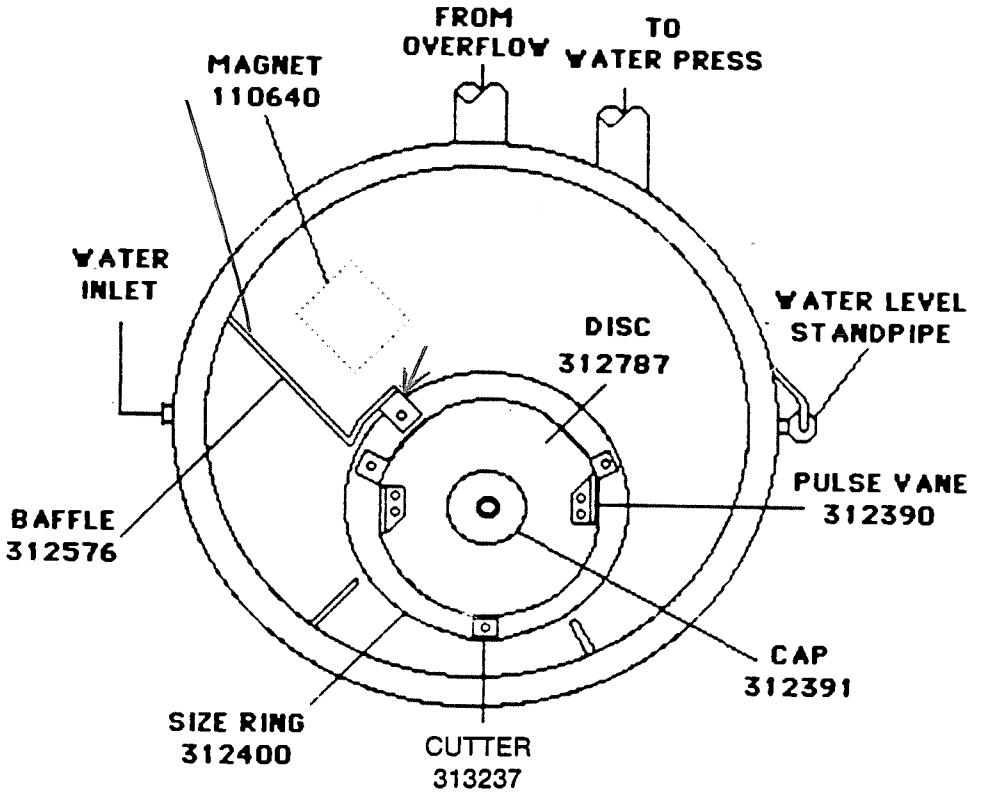



REAR VIEW

(SKIRT REMOVED)

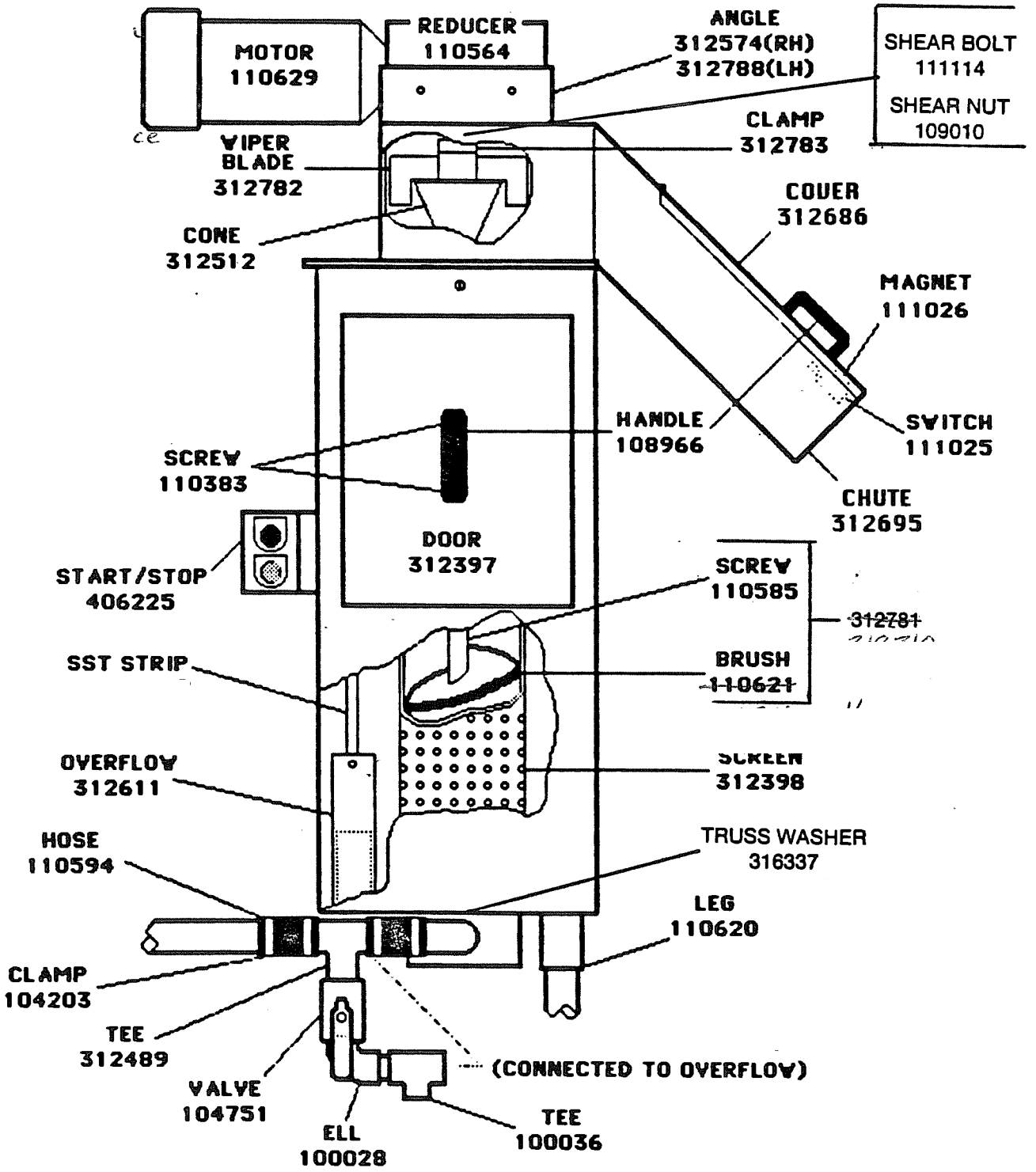
# PULPER TANK

(COVER REMOVED)

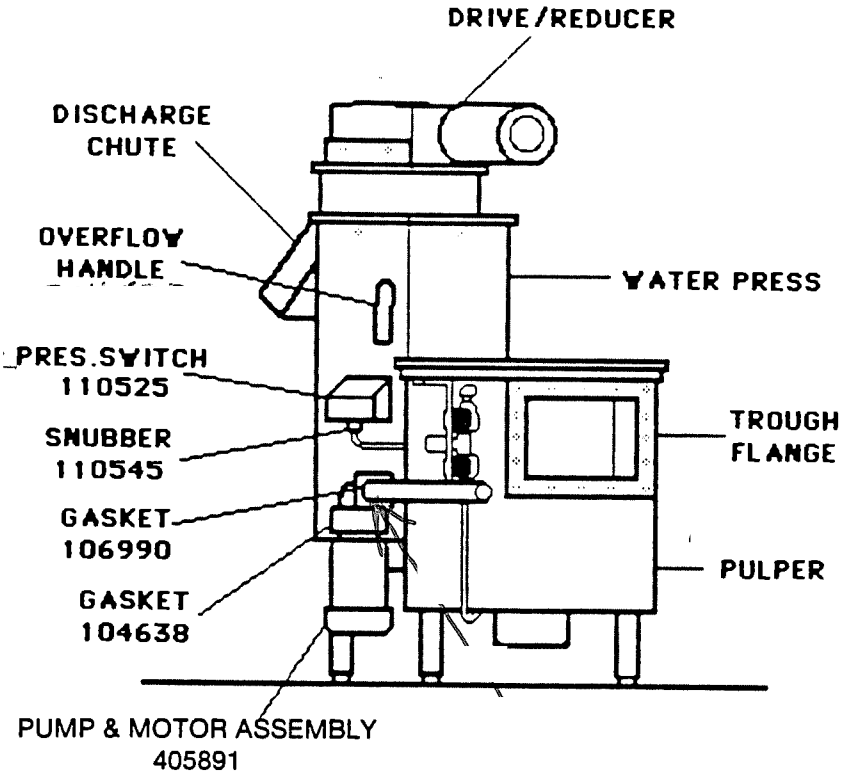



TOP VIEW

# PULPER
# WATER PRESS

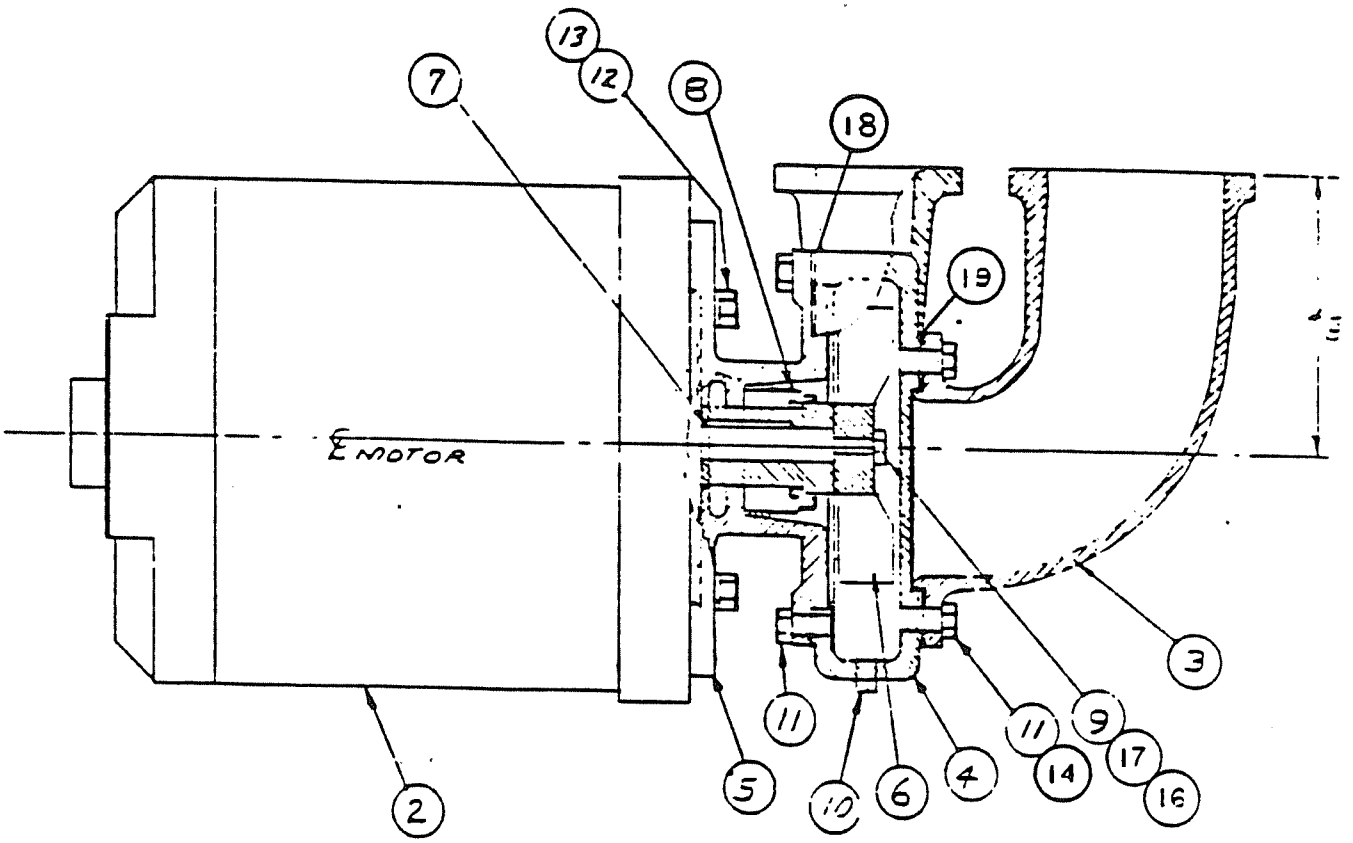


# PULPER W/TROUGH




REAR VIEW

MOTOR ONLY
204725

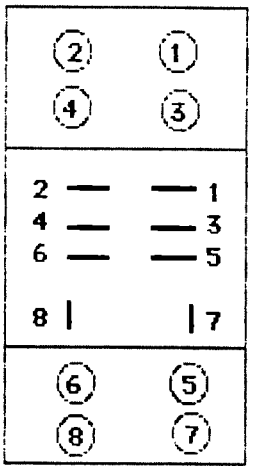



| PART NUMBER | ITEM NO | DESCRIPTION | QTY/PER |
|---|---|---|---|
| 405891 | | PUMP ASSY,3/4HP PULPER | |
| 109678 | 18 | GASKET,FIBER 3/4 HP PUMP | 1.1 |
| 204725 | 2 | MOTOR,3/4 HP BALDOR CM3542 | 1. |
| C3819 | 3 | PUMP SUCTION #1103 | 1. |
| D4820 | 4 | PUMP DISCHARGE PATT#1102 | 1. |
| 14269-1 | 5 | HOUSING PUMP SEAL #1041 | 1. |
| 12799-1 | 6 | IMPELLER | 1. |
| 106619 | 7 | KEY 3/16 X 3/16 X 1 | 1. |
| 100038 | 8 | SEAL 1 INCH | 1. |
| 104585 | 9 | BOLT 1/4-20 X 1 1/4 HEX HD | 1. |
| 102500 | 10 | PLUG 1/4 IN BRASS | 1. |
| 100735 | 11 | BOLT 1/4-20 X 5/8 HEX HEAD | 12. |
| 104616 | 12 | WASHER LOCK 3/8 EXTER BRZ | 8. |
| 100153 | 13 | BOLT 3/8-16 X 1 HEX HEAD | 8. |
| 100216 | 14 | WASHER SEALING 1/4 INCH | 8. |
| 104414 | 15 | O-RING 1 INCH 5427-19 | 1. |
| 107364 | 16 | WASHER FIBER 1/4ID X 7/8OD | 1. |
| 107694 | 17 | WASHER IMPELLER 7/8 X 1/4 | 1. |

SERVICE BULLETIN

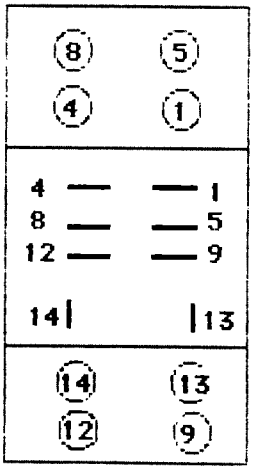
1. Effective 9-11-89 all machines using the **Socket-Relay** Assembly AROMAT #HL2-SFD (Champion #110447) will be changed to Assembly IDEC #SH2B-05 (Champion #111036).
   AROMAT Socket uses Relay #107352 (115V) or #109737 (24V).
   IDEC Socket uses Relay #111067 (24V) or #111068 (120V).
   Please note the change of Pin Numbers on the Relay and Wire # on Socket.

(Black)
SOCKET




AROMAT #110447

(Grey)
SOCKET




IDEC #111036

# P-5 PULPER REVISIONS

| OLD PART NO. | DESCRIPTION | NEW PART NO. |
|---|---|---|
| 103585 | TEE | 100036 |
| 107352 | RELAY 115V | 111068 |
| 107368 | CHAIN | 314378 |
| 109737 | RELAY 24V | 111067 |
| 109934 | SWITCH | 111025 |
| 109935 | MAGNET | 111026 |
| 110208 | TUBING | 0502667 |
| 110447 | SOCKET RELAY | 111036 |
| 405280 | START/STOP | 406225 |