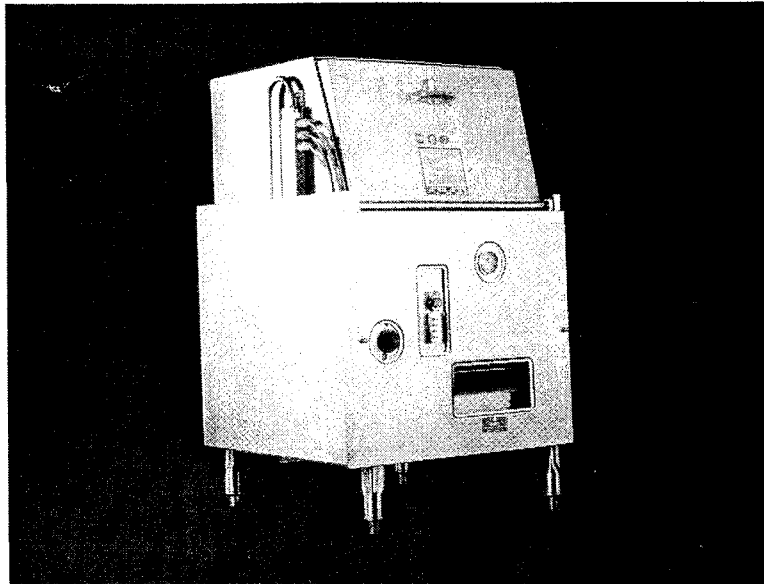




# INSTRUCTION & PARTS MANUAL

## GLASSWASHER



**STERO**  
Dishwashing Machines





# **INSTRUCTION AND PARTS MANUAL**

**STERO MODEL SGW-M GLASS WASHER  
WITH MECHANICAL TIMER**

**AND**

**STERO MODEL SGW-H-M WITH OPTIONAL PRE-HEATER  
AND MECHANICAL TIMER**

## **INTRODUCTION**

Careful attention to these instructions  
will insure long and satisfactory service  
from the Stero Glass Washing Machine.

## **SECTION 1**

Installation Instructions

Operation

Adjustments

Maintenance

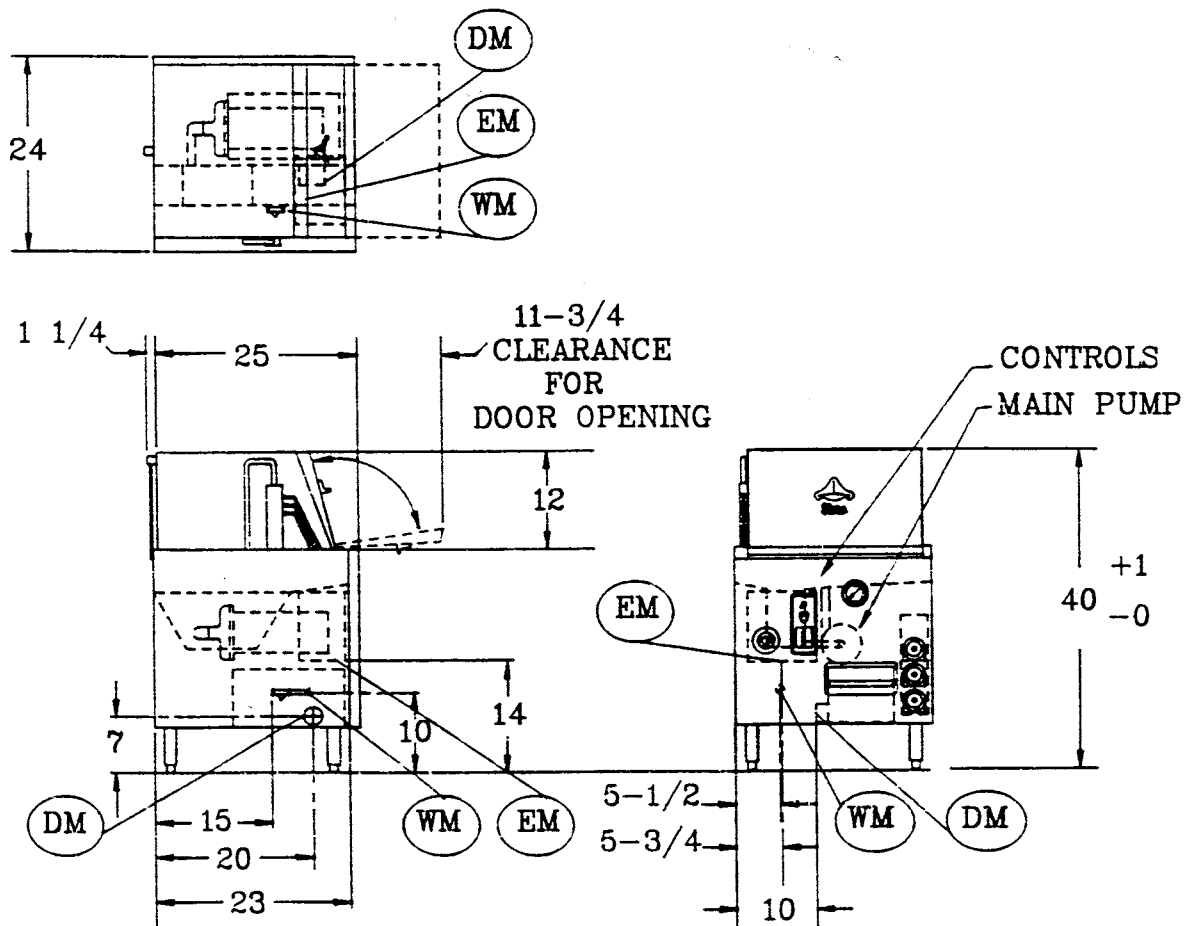
Trouble Shooting Guide

## **SECTION 2**

Parts Drawings

Parts Numbers & Description

Wiring Diagram



| STERO GLASS WASHER SGW         |                                          |
|--------------------------------|------------------------------------------|
| DM                             | DRAIN-2-1/4 I.D. HOSE CONNECTION         |
| 1 ONLY-115V. ELECTRICAL FEEDER |                                          |
| EM                             | 1/3 H.P. MOTOR-115 V.-10 AMPS            |
|                                | 2 K.W. HEATER (OPTIONAL) 115V.-17.4 AMPS |
| WM                             | 3/8" NPT WATER SUPPLY-120° MIN.          |

# ***The Stero Company***

## **WARRANTY POLICY**

*This warranty is in lieu of all other warranties, expressed or implied, including without limitation any implied warranty of merchantability, fitness for a particular purpose or non-infringement, and of any other obligation or liability on the part of Stero, whether in contract, strict liability, tort or otherwise.*

*The Stero Company warrants this equipment to be free from defects in material and workmanship, under normal use and operation, for a period of one (1) year from the date of initial start up or eighteen (18) months from the date of shipment from the factory, whichever comes first. This warranty is conditioned upon the customer's maintenance and care as outlined in the service manual and upon return of the warranty registration card. Repairs will be performed during Stero's authorized service agency's normal business hours. If the customer requires after hours service the customer will be responsible for the overtime premium.*

*Machine is warranted only for the initial place of installation. Removal of machine automatically terminates the warranty.*

*Stero shall have no liability under this warranty unless the customer promptly notifies Stero or it's factory authorized service agent of any alleged defects. All defective parts become the property of Stero and must be returned to Stero, or it's agent, at Stero's expense, within thirty (30) days from the date of the part's replacement. Parts replaced within the warranty carry only the unexpired portion of the machine's warranty. Not covered by this warranty are changes (parts and/or labor) necessitated by or damage resulting from: water conditions, accident, alteration, improper use, abuse, tampering, improper installation or failure to follow operating and maintenance procedures. Examples of the foregoing, but without limitations are: (1) Damage to the machine resulting from excessive concentrations of chlorine or de-liming acid solutions; (2) Use with utility service other than designated on the rating plates; (3) Improper connection to utility service; (4) Inadequate or excessive water and/or steam pressure; (5) Leaks caused by faulty installation; (6) Component failures caused by water leaks due to faulty installation; (7) Failure to comply to local building codes; (8) Failures due to deposits resulting from water or steam conditions, detergents, chemicals, or improper cleaning; (9) Resetting breakers, overloads, or safety thermostats; (10) Adjustments of thermostats after 90 days of operation; (11) Improper opening of utility supply valves; (12) Cleaning drain valves, line strainers, rinse nozzles, etc.; (13) Improper installation or malfunction of chemical dispensing equipment supplied by others; and (14) Failure to provide regular maintenance and daily cleaning as outlined in the service manual. In no event will Stero be liable for loss or damage to or loss of use of facilities or other property, additional labor costs, loss of revenue, loss of anticipated profits, or other damages of any kind what so ever, whether direct, indirect, incidental or consequential.*



## INSTALLATION INSTRUCTIONS

1. Set machine in place.  
Level machine side to side and front to back.
  - A. Level adjustment made by screwing adjustable feet in or out as necessary.
2. Make final plumbing and electrical connections per tags attached to connection points. (See page 2).
  - A. Plumbing connections.
    1. One (1)  $\frac{3}{8}$ " N.P.T. 140° water supply.  
*NOTE: Install shut off valve prior to machine connection.*
    2. One (1) 2 $\frac{1}{4}$ " I.D. hose drain connection.
  - B. Electrical connections.  
*NOTE: ALL STERO GLASS WASHERS ARE 115 VOLTS, SINGLE PHASE.*
    1. The terminal strip is located in the control box and is marked L1 N. A knock-out is provided in the bottom of the control box for your electrical conduit.
    2. Some glass washers are equipped with an optional 2 KW heater to maintain water temperatures at between 120° and 140° f. (Model SGW-H).  
*NOTE: See name plate on door of the machine and size circuit breaker and wire accordingly.*

**COMPLY WITH LOCAL ELECTRICAL CODES.**

## OPERATION: START-UP

1. Make sure drain plug is seated in drain.
2. Pump intake screen in place.
3. Fill the machine by pressing fill toggle switch to left.  
*NOTE: Fill to  $\frac{1}{2}$ " below overflow.*
4. Be sure revolving wash arm is in place with end caps tightly secured—spin to test for free rotation.
5. Set thermostat at 140° (when equipped with optional pre-heater). See Fig. 1
6. Close door—press start switch and hold down for 2 to 5 seconds—door must be closed as machine is equipped with a door safety switch.
7. Stop Run Hold switch must be in center (run) position. Hold position will stop the cycle timer in whatever cycle the machine is running. This is primarily for processing the glasses and/or chemically cleaning the machine.

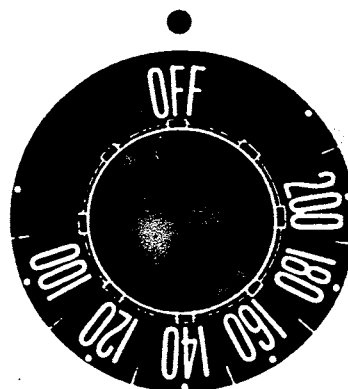
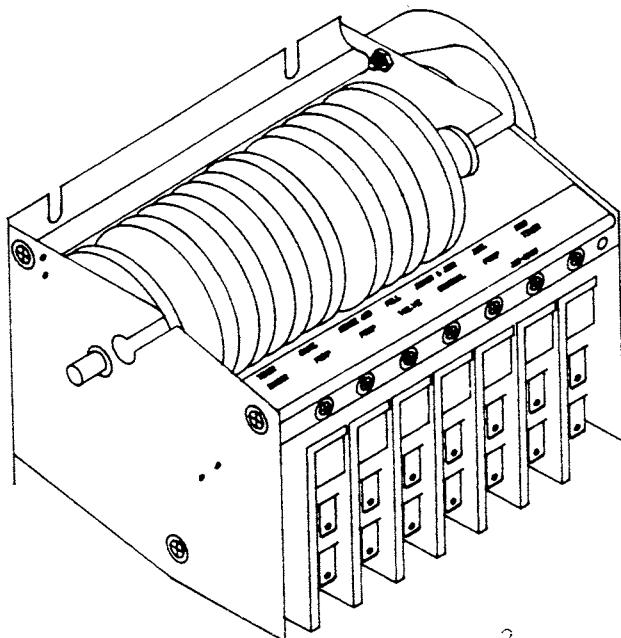


Fig. 1

## SEQUENCE OF EVENTS

1. Wash cycle-40 seconds.
  - A. Detergent dispensing pump is energized during wash cycle.
2. Drain-11 seconds.
3. Flush-4 seconds. (Before the drain closes, the fill solenoid valve will open. The pump motor will come on and the machine will be flushed of any debris or detergent residue).
4. Fill-Drain closes at end of 4 seconds. Flush and fills to proper level -  $\frac{1}{2}$ " below overflow. This time depends on water pressure of supply - approximately 15 seconds.
  - A. Sanitizer and rinse aid pumps activated during fill and rinse.
5. Rinse-20 seconds.



2

## ADJUSTMENTS

The machine has been thoroughly tested and adjustments have been made at the factory. Due to differences in water pressure, the water level may have to be adjusted. This is done by removing the cover from the pressure switch, located behind the front panel, between the start switch and temperature gauge. Turn the adjustment screw clockwise to raise the water level, counter-clockwise to lower water level.

## CHEMICAL DISPENSING SYSTEM

Your glass washer is equipped with a complete liquid chemical dispensing system, consisting of the following:

1. Three (3) peristaltic pumps with color coded tubing.
  - A. Detergent - Red tubing
  - B. Sanitizer - White tubing
  - C. Rinse Aid - Blue tubing
2. Chemical Adjustments.

All chemicals are produced in varying concentrations and therefore, the chemical supplier **MUST** adjust the dispensers to deliver the proper amount of chemical required to give good results.

## CHEMICAL ADJUSTMENTS (Cont.)

To adjust the amount of chemical dispensed, locate the appropriate cam on the 7 cam mechanical timer. Turn the right side of this cam with the timer wrench. Opening the gap will increase the amount of chemical dispensed. The timer is shown in Fig. 2.

**NOTE:** Excessive rinse aid will cause foaming. Foam reduces the wash and rinse pressure to an unacceptable level. If foam is observed on glasses or in machine, check water temperature. If above 120°, have the chemical supplier decrease quantity of rinse additive being injected.

**NOTE:** Chlorine concentration should be kept at 50 PPM. Excessive chlorine will create a chlorine odor around the machine area and cause a cloudy grey film to appear on the clean glassware.

**CAUTION:** Chlorine is corrosive. Excessive concentrations will damage your glass washer.

## MAINTENANCE

Your new SGW-M is easy to maintain.

Since soils, washed from the glassware are discharged from the machine during the drain and flush cycle the interior of the machine remains relatively clean.

### DAILY MAINTENANCE

1. Remove and inspect the spray area, paying close attention to the sprayers to see that they are free of any debris that might interrupt the spray pattern. If a sprayer is clogged, simply loosen the wash arm end caps, push the debris back through the sprayer, into the wash arm and rinse out. Be sure slot in arm bushing is clean.
2. Remove and clean pump intake screen.
3. Remove and clean scrap screen from drain sump.
4. Check level of chemical containers, replace as necessary. When replacing chemical containers use prime switch to prime the pumps. Operate the machine several times after priming the chlorine sanitizer pump. This will wash the concentrated chlorine off of the interior of the glass washer.

Now that all spray jets, pump intake screen and drain sump screen have been cleaned, replace as follows:

1. Replace scrap screen in drain sump.
2. Replace pump intake screen.
3. Replace spray arm.

**NOTE:** Be sure spray arm bushing and pivot pin are free of any grit that may slow down or keep the spray arm from revolving.

### WEEKLY (or as necessary):

1. Remove the scrap screen from the drain sump and thoroughly clean the interior of the drain sump. This cleaning is necessary to avoid any odors created by scrap which may have been allowed to fall from the scrap screen into the sump itself.

### MONTHLY:

1. Remove four spray jets from upper spray jet manifold and clean if clogged.

# SGW AND SGW-H DISHWASHERS - TROUBLE SHOOTING GUIDE

| PROBLEM                                                                          | LOOK FOR                                                                                                                                                                                                                                                                                  | CORRECTION                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MACHINE WILL NOT FILL                                                            | <ol style="list-style-type: none"> <li>1) Closed water supply valve.</li> <li>2) Plugged line strainer.</li> <li>3) Defective pressure switch.</li> <li>4) Defective fill valve.</li> <li>5) Drain valve open.</li> <li>6) Defective fill switch.</li> <li>7) Defective Timer.</li> </ol> | <ol style="list-style-type: none"> <li>1) Open valve.</li> <li>2) Remove &amp; clean screen.</li> <li>3) Check &amp; replace if necessary.</li> <li>4) Check &amp; replace if necessary.</li> <li>5) Check seat for food particles, check "O" ring (broken or out of place).</li> <li>6) Replace fill switch.</li> <li>7) Check fill Micro Switch on Timer.</li> </ol>                   |
| MACHINE WILL NOT START                                                           | <ol style="list-style-type: none"> <li>1) Tripped circuit breaker.</li> <li>2) Defective door switch.</li> <li>3) Stop-Run-Hold switch not in run position.</li> <li>4) Start Switch not depressed long enough.</li> </ol>                                                                | <ol style="list-style-type: none"> <li>1) Reset breaker in customer breaker panel.</li> <li>2) Check &amp; replace if necessary.</li> <li>3) Switch to run.</li> <li>4) Hold start switch in for 5 seconds.</li> </ol>                                                                                                                                                                   |
| MACHINE OVERFILLS<br>Fill level is to 1/2" of overflow.<br>DO NOT UNDERFILL      | <ol style="list-style-type: none"> <li>1) Pressure switch not adjusted properly.</li> <li>2) Defective pressure switch.</li> <li>3) Defective fill valve.</li> <li>4) Defective Timer.</li> </ol>                                                                                         | <ol style="list-style-type: none"> <li>1) Remove cover from pressure switch (which is located behind the front cover panel, between the control box &amp; temperature gauge) using screw driver, turn adjustment screw counter-clockwise.</li> <li>2) Check &amp; replace if necessary.</li> <li>3) Check &amp; replace if necessary.</li> <li>4) Adjust, repair, or replace.</li> </ol> |
| DRAIN HOLDING TANK OVERFLOWING                                                   | <ol style="list-style-type: none"> <li>1) Holding tank scrap screen plugged.</li> <li>2) Holding tank drain line plugged.</li> <li>3) Check water lever for over-filling.</li> </ol>                                                                                                      | <ol style="list-style-type: none"> <li>1) Clean scrap screen.</li> <li>2) Clean out drain line.</li> <li>3) Adjust water level.</li> </ol>                                                                                                                                                                                                                                               |
| PUMP MOTOR KICKING OUT<br>Rating plate on motor - will show voltage & amp limit. | <ol style="list-style-type: none"> <li>1) Wrong motor rotation.</li> <li>2) Wrong line voltage.</li> <li>3) Broken glass, dish, silver, etc. in wash pump.</li> <li>4) Water level too low.</li> </ol>                                                                                    | <ol style="list-style-type: none"> <li>1) Change rotation.</li> <li>2) Check with voltmeter.</li> <li>3) Remove pump &amp; clean housing - check intake &amp; discharge sides &amp; clean if necessary.</li> <li>4) Adjust water level.</li> </ol>                                                                                                                                       |

|                                               |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOT WASHING PROPERLY                          | <ol style="list-style-type: none"> <li>1) Spray arm plugged.</li> <li>2) Spray arm not revolving.</li> <li>3) Empty detergent container.</li> <li>4) Low water level.</li> </ol>                                                                                                                                                                                | <ol style="list-style-type: none"> <li>1) Remove &amp; clean arm body &amp; jets.</li> <li>2) Remove &amp; clean arm &amp; clean shaft &amp; bushing (clean groove in bushing).</li> <li>3) Call detergent representative.</li> <li>4) Adjust fill to proper level.</li> </ol>                                                                                    |
| NOT RINSING PROPERLY                          | <ol style="list-style-type: none"> <li>1) Check rinse aid injector.</li> <li>2) Low water level.</li> <li>3) Not draining wash water completely.</li> </ol>                                                                                                                                                                                                     | <ol style="list-style-type: none"> <li>1) Not working - call detergent representative.</li> <li>2) Check fill system &amp; adjust or correct as necessary.</li> <li>3) Check, if overflowing and/or drain not opening. Correct as necessary.</li> </ol>                                                                                                           |
| WATER LEAKING OUT OF DOOR                     | <ol style="list-style-type: none"> <li>1) Spray arms not revolving</li> <li>2) Spray arm clean-out caps not in place.</li> <li>3) No dish rack in machine.</li> </ol>                                                                                                                                                                                           | <ol style="list-style-type: none"> <li>1) Remove spray arms. Clean nozzles, bushings &amp; arm body.</li> <li>2) Reset clean-out caps.</li> <li>3) Place rack in machine.</li> </ol>                                                                                                                                                                              |
| MACHINE STAYS IN WASH MODE                    | <ol style="list-style-type: none"> <li>1) Check Stop-Hold-Run switch.</li> </ol>                                                                                                                                                                                                                                                                                | <ol style="list-style-type: none"> <li>1) If in HOLD position, switch to run.</li> </ol>                                                                                                                                                                                                                                                                          |
| BLOWS FUSES OR BREAKER                        | <ol style="list-style-type: none"> <li>1) Grounded wire.</li> <li>2) Loose electrical connection.</li> <li>3) Defective detergent equipment.</li> <li>4) Drain solenoid plunger binding.</li> </ol>                                                                                                                                                             | <ol style="list-style-type: none"> <li>1) Check wiring - repair or replace wire as necessary.</li> <li>2) Tighten connection.</li> <li>3) Disconnect &amp; call detergent representative.</li> <li>4) Check drain solenoid for loose base plate fasteners. If loose, align solenoid &amp; tighten base plate fasteners. Replace solenoid if necessary.</li> </ol> |
| WASH TANK WON'T HOLD WATER                    | <ol style="list-style-type: none"> <li>1) Food particles holding drain pipe from seating.</li> <li>2) Drain not closing.</li> <li>3) Defective "O" ring.</li> <li>4) Defective drain solenoid.</li> </ol>                                                                                                                                                       | <ol style="list-style-type: none"> <li>1) Clean drain valve and seat.</li> <li>2) Adjust linkage between drain body &amp; drain solenoid.</li> <li>3) Replace "O" ring.</li> <li>4) Check &amp; replace as necessary.</li> </ol>                                                                                                                                  |
| WON'T FEED DETERGENT OR RINSE AID OR CHLORINE | <ol style="list-style-type: none"> <li>1) Check detergent container.</li> <li>2) Plugged detergent tubing.</li> <li>3) Check terminals provided for dispensing equipment to be sure dispensing equipment is fed electrically during wash cycle (detergent) &amp; rinse cycle (rinse injector &amp; chlorine pumps).</li> <li>4) Pump(s) not running.</li> </ol> | <ol style="list-style-type: none"> <li>1) If empty - replace with full container - use priming switch to get flow started.</li> <li>2) Call detergent representative.</li> <li>3) Replace the mechanical timer or its micro switches as necessary.</li> </ol>                                                                                                     |



## COMPONENT PARTS, DRAWING AND PART NUMBERS

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When ordering parts, specify ONLY parts pertaining to your model machine.

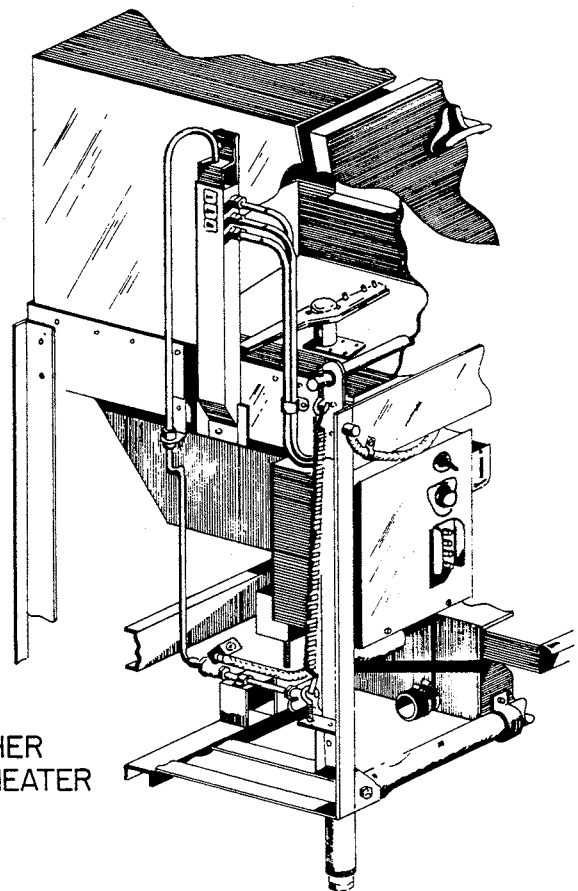
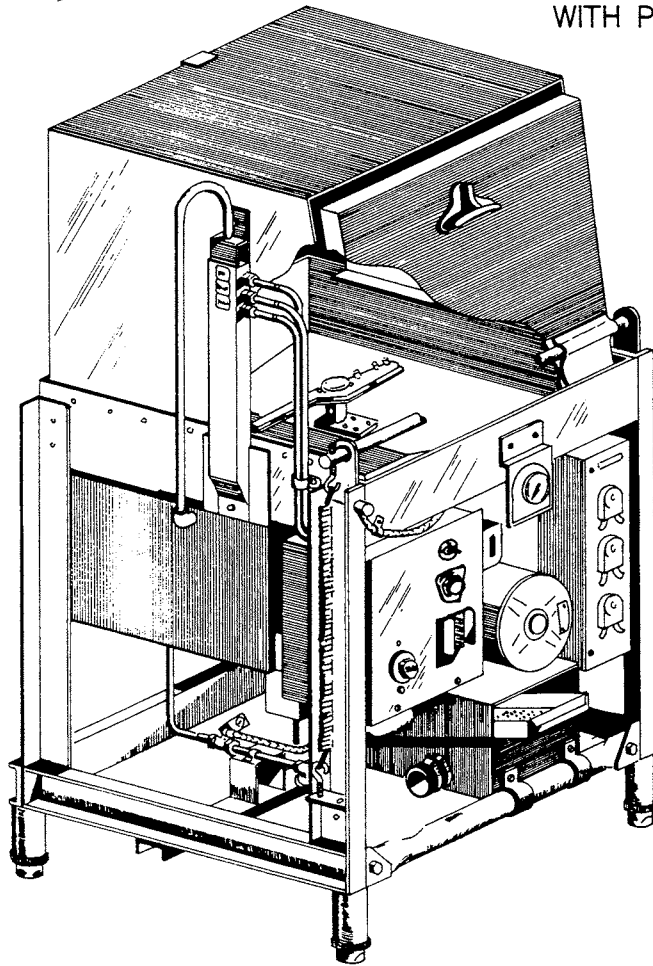
#### IMPORTANT

Always include model number, serial number  
and parts number of your machine with your order.

The model and serial number will be found  
on the name plate located on the door of the machine.

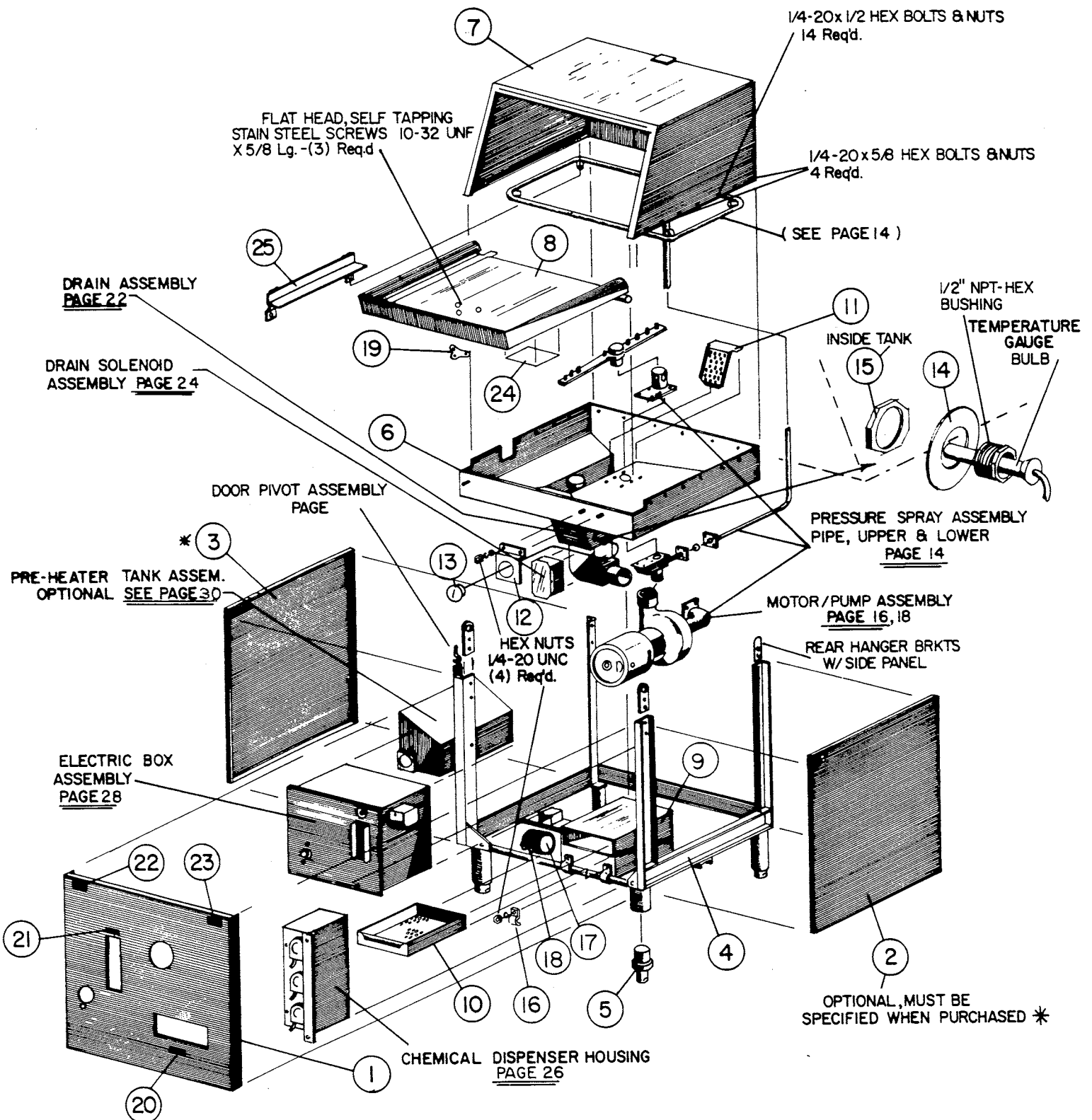


GLASS WASHER  
WITH PRE HEATER



GLASS WASHER  
WITHOUT PRE HEATER

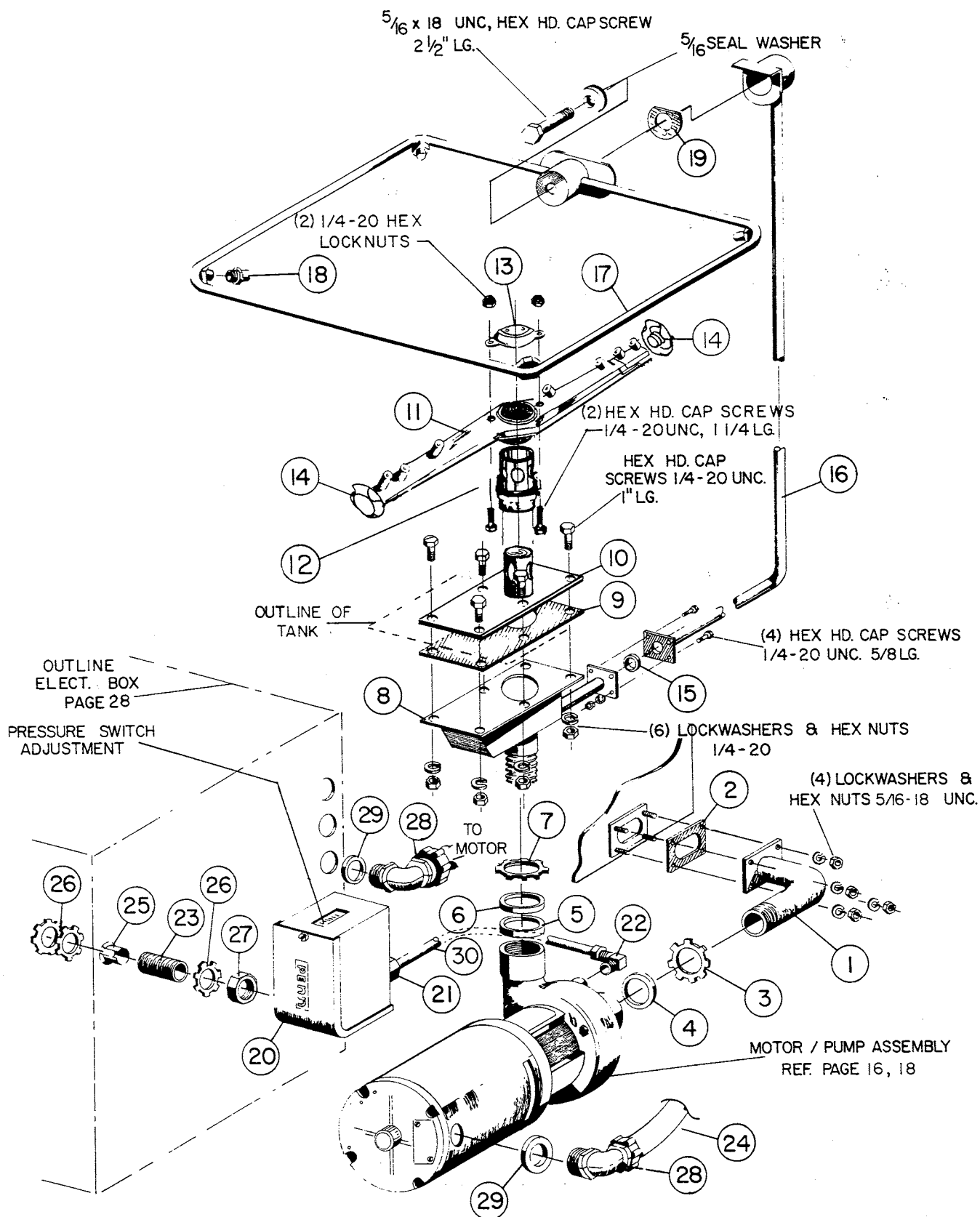
STERO'S SGW GLASS WASHER  
(FRONT & SIDE PANELS NOT SHOWN)



SGW GLASS WASHER MAIN ASSEMBLY

# MAIN ASSEMBLY - PARTS LIST

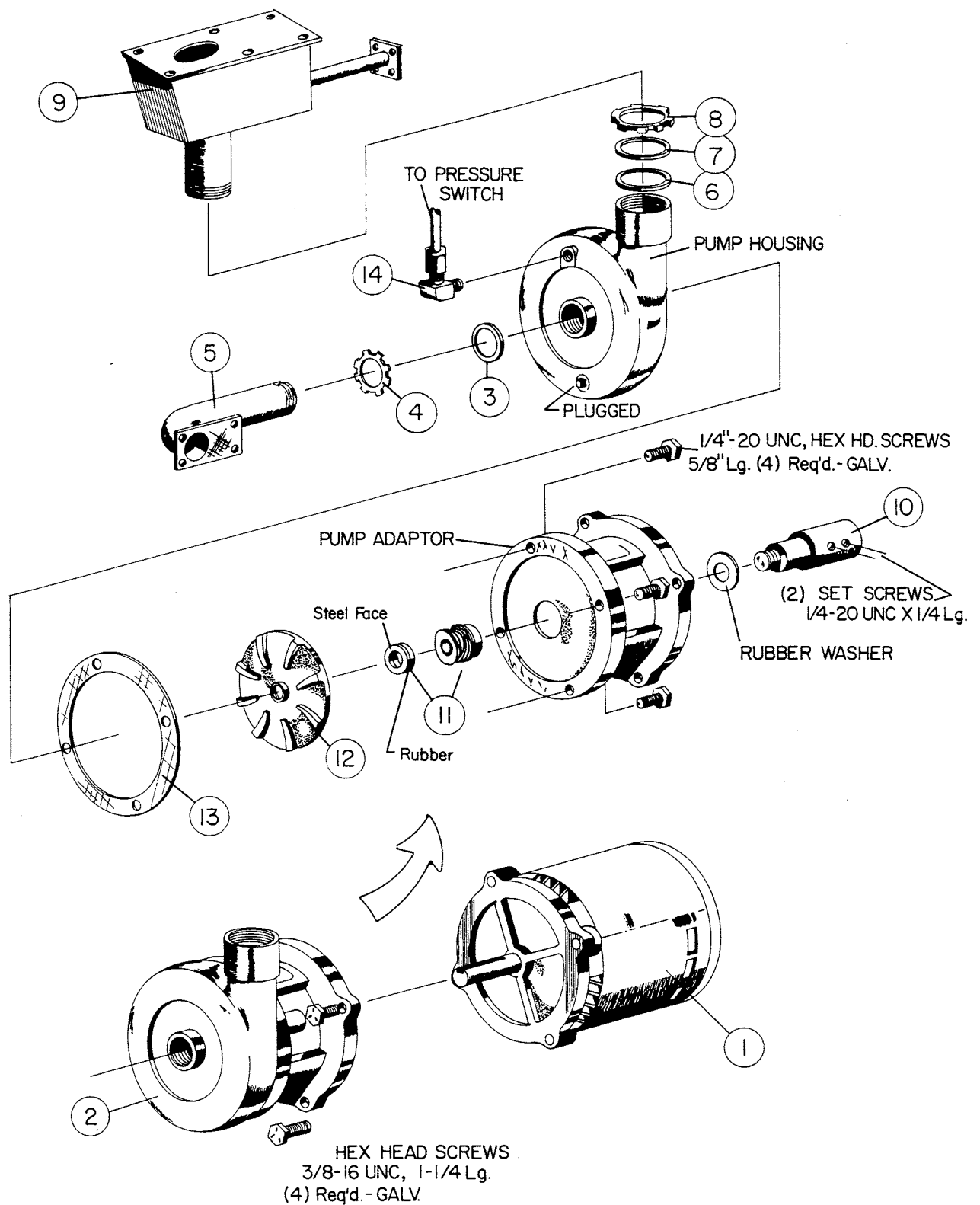
| ITEM | DESCRIPTION                            | REMARKS        | PART NO. |
|------|----------------------------------------|----------------|----------|
| 1    | PANEL FRONT                            |                | B10-1351 |
| 2    | PANEL SIDE - RIGHT HAND                | OPTIONAL EQUIP | B10-1352 |
| 3    | PANEL SIDE - LEFT HAND                 | OPTIONAL EQUIP | B10-1353 |
| 4    | FRAME                                  |                | B10-1354 |
| 5    | FOOT - ADJUSTABLE                      |                | P60-1101 |
| 6    | WASH TANK COMPLETE                     |                | B10-1355 |
| 7    | HOOD - SINGLE DOOR SLANTED             |                | B10-1356 |
| 8    | DOOR - SLANTED SINGLE                  |                | B10-1357 |
| 9    | DRAIN - SUMP TANK                      |                | B10-1358 |
| 10   | DRAIN - SUMP STRAINER PAN              |                | B10-1359 |
| 11   | PUMP INTAKE SCREEN                     |                | A10-1415 |
| 12   | TEMPERATURE GAUGE BRACKET              |                | B10-1444 |
| 13   | TEMPERATURE GAUGE                      |                | P65-1135 |
| 14   | TEMPERATURE GAUGE BACK-UP RING         |                | A10-1445 |
| 15   | LOCKNUT S.S. 1/2"                      |                | A10-1446 |
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| 17   | HOSE                                   |                | P57-1137 |
| 18   | CLAMP                                  |                | P60-1138 |
| 19   | DOOR HANDLE                            |                | B59-1448 |
| 20   | LABEL - "SCRAP CATCHMENT STRAINER PAN" |                | A69-1450 |
| 21   | LABEL - "WARNING DISCONNECT ALL POWER" |                | A69-1449 |
| 22   | LABEL - "DOOR SAFETY SWITCH"           |                | A69-1451 |
| 23   | LABEL - "HAVE FRONT PANELS IN PLACE"   |                | A69-1452 |
| 24   | LABEL - "OPERATING INSTRUCTIONS"       |                | A69-1453 |
| 25   | TRACK GUIDES                           |                | A10-1500 |
|      |                                        |                |          |
|      |                                        |                |          |
|      |                                        |                |          |
|      |                                        |                |          |



PRESSURE SPRAY MANIFOLDS, UPPER AND LOWER ASSEMBLIES  
INCLUDING PUMP & PRESSURE SWITCH.

PRESSURE SPRAY MANIFOLDS UPPER & LOWER  
PUMP & PRESSURE SWITCH PARTS LIST

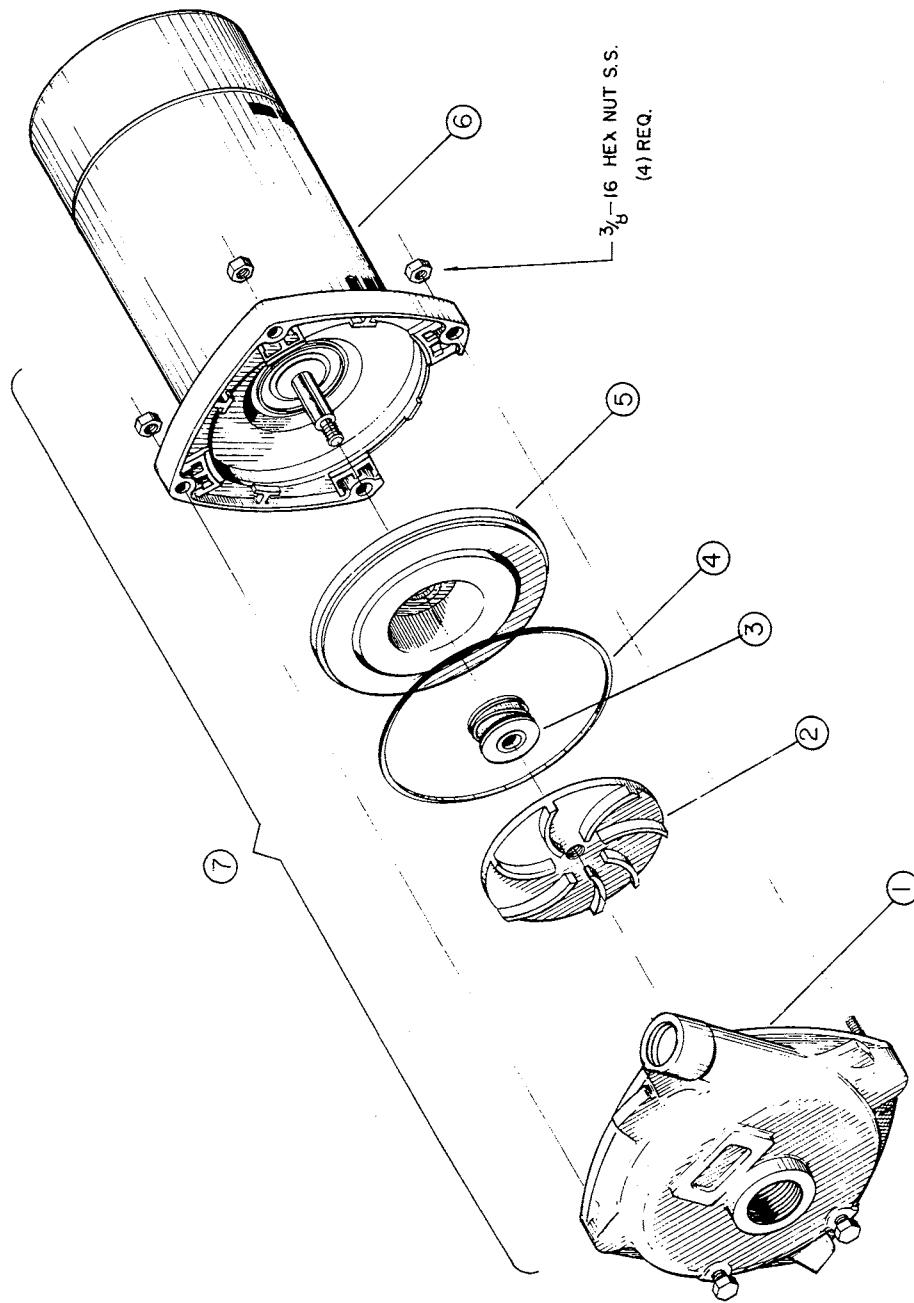
| ITEM | DESCRIPTION                      | REMARKS    | PART NO. |
|------|----------------------------------|------------|----------|
| 1    | PUMP SUCTION TUBE ASSEMBLY       |            | A10-1361 |
| 2    | GASKET PUMP SUCTION TUBE FLANGE  | 2 REQUIRED | A57-1341 |
| 3    | LOCKNUT, CONDUIT - 1 1/4"        |            | P52-1031 |
| 4    | SEAL RING - 1 1/4"               |            | P52-1032 |
| 5    | SEAL RING - 1"                   |            | P52-1033 |
| 6    | WASHER BACK-UP FOR SEAL RING     |            | A10-1362 |
| 7    | LOCKNUT, CONDUIT - 1"            |            | P52-1034 |
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| 9    | GASKET MANIFOLD TEE BOX          |            | A57-1365 |
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| 11   | WASH ARM                         |            | C10-1367 |
| 12   | BUSHING - WASH ARM               |            | A10-1735 |
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| 14   | END CAPS - WASH ARM              |            | A10-4131 |
| 15   | □ RING                           |            | P57-2031 |
| 16   | RISER TUBE ASSEMBLY              |            | A10-1368 |
| 17   | SPRAY MANIFOLD ASSEMBLY UPPER    |            | B10-1371 |
| 18   | SPRAY JETS                       | 4 REQUIRED | B10-1062 |
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| 20   | PRESSURE SWITCH                  |            | P54-1103 |
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| 22   | 1/4" TUBE × 1/4" MIP 90° ELBOW   |            | P68-1506 |
| 23   | 1/2" × CLOSE NIPPLE              |            | P52-1244 |
| 24   | WIRE CORD - 16/3                 |            | P45-2180 |
| 25   | SLEEVE, CONDUIT - 1/2"           |            | P52-1039 |
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| 27   | BUSHING, INSULATING - 1/2"       |            | P52-1043 |
| 28   | STRAIN RELIEF 90° ELBOW          |            | P52-1059 |
| 29   | SEAL RING - 1/2"                 |            | P52-1038 |
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|      |                                  |            |          |
|      |                                  |            |          |
|      |                                  |            |          |
|      |                                  |            |          |



## SGW PRICE PUMP ASSEMBLY

# PRICE PUMP ASSEMBLY

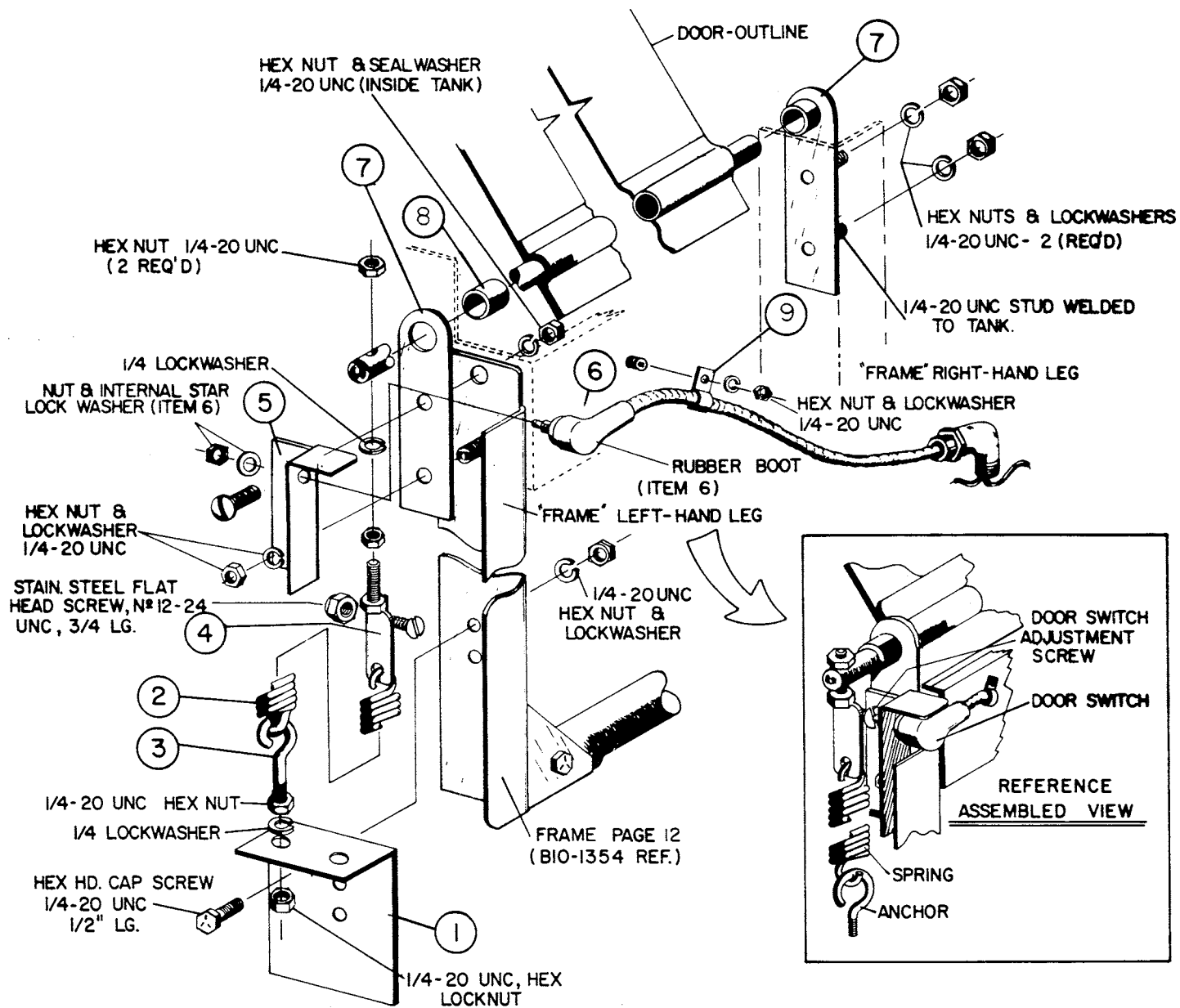
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GOULD PUMP / MOTOR ASSEMBLY

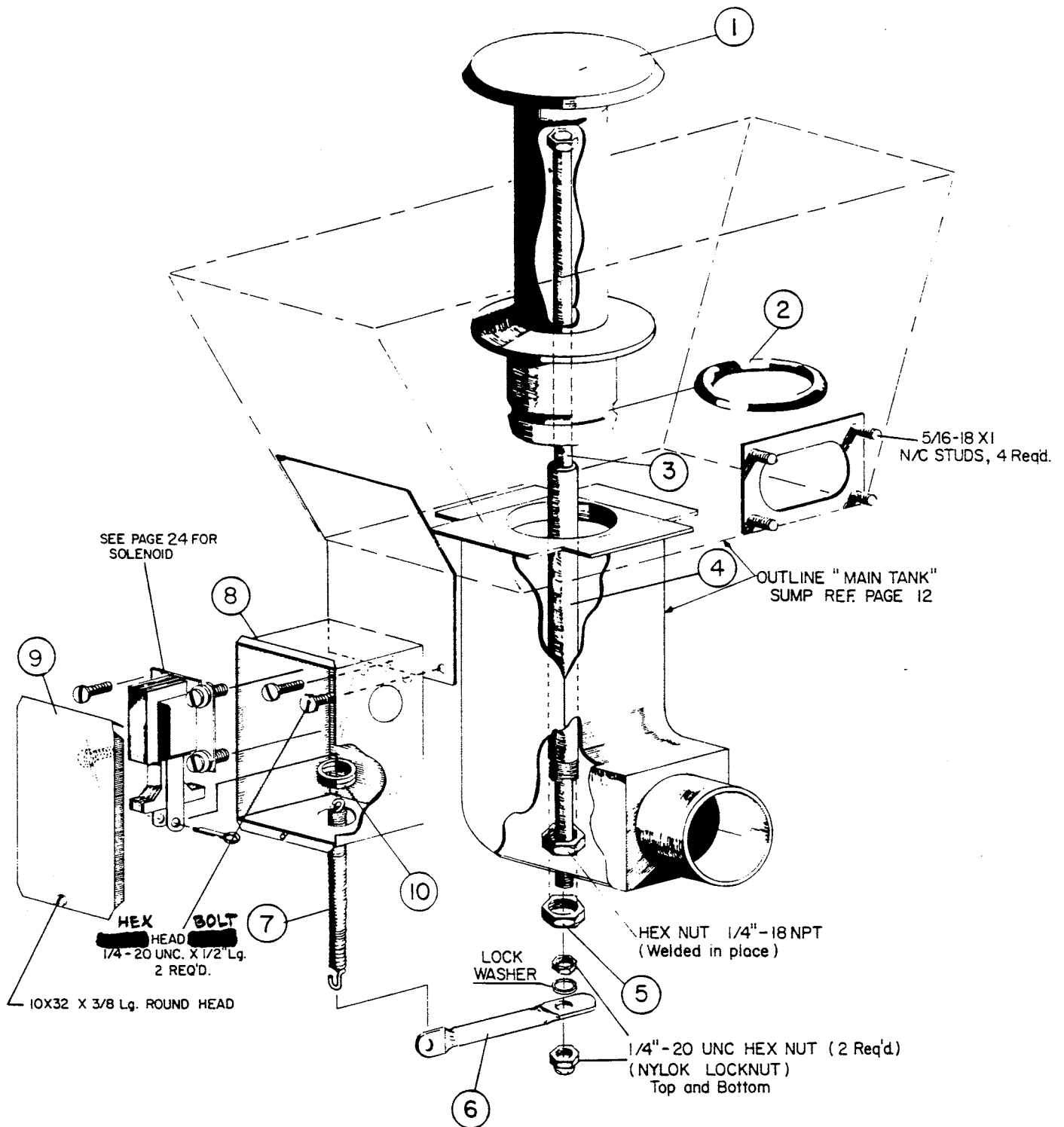
1/3 HP 115/230V 1 PHASE

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## DOOR PIVOT & SPRING BALANCE ASSEMBLIES

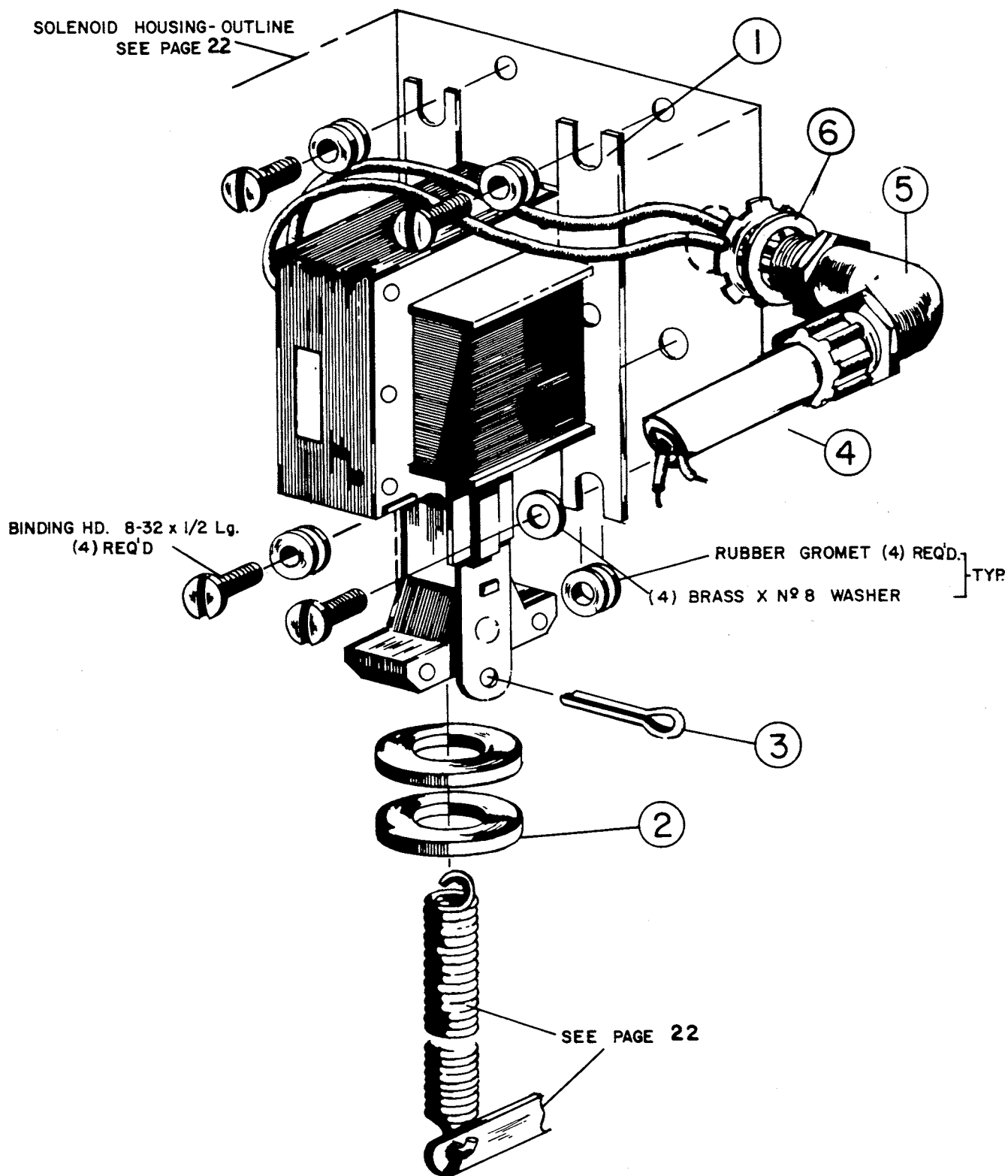
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MACHINE, DRAIN ASSEMBLY

# MACHINE DRAIN ASSEMBLY

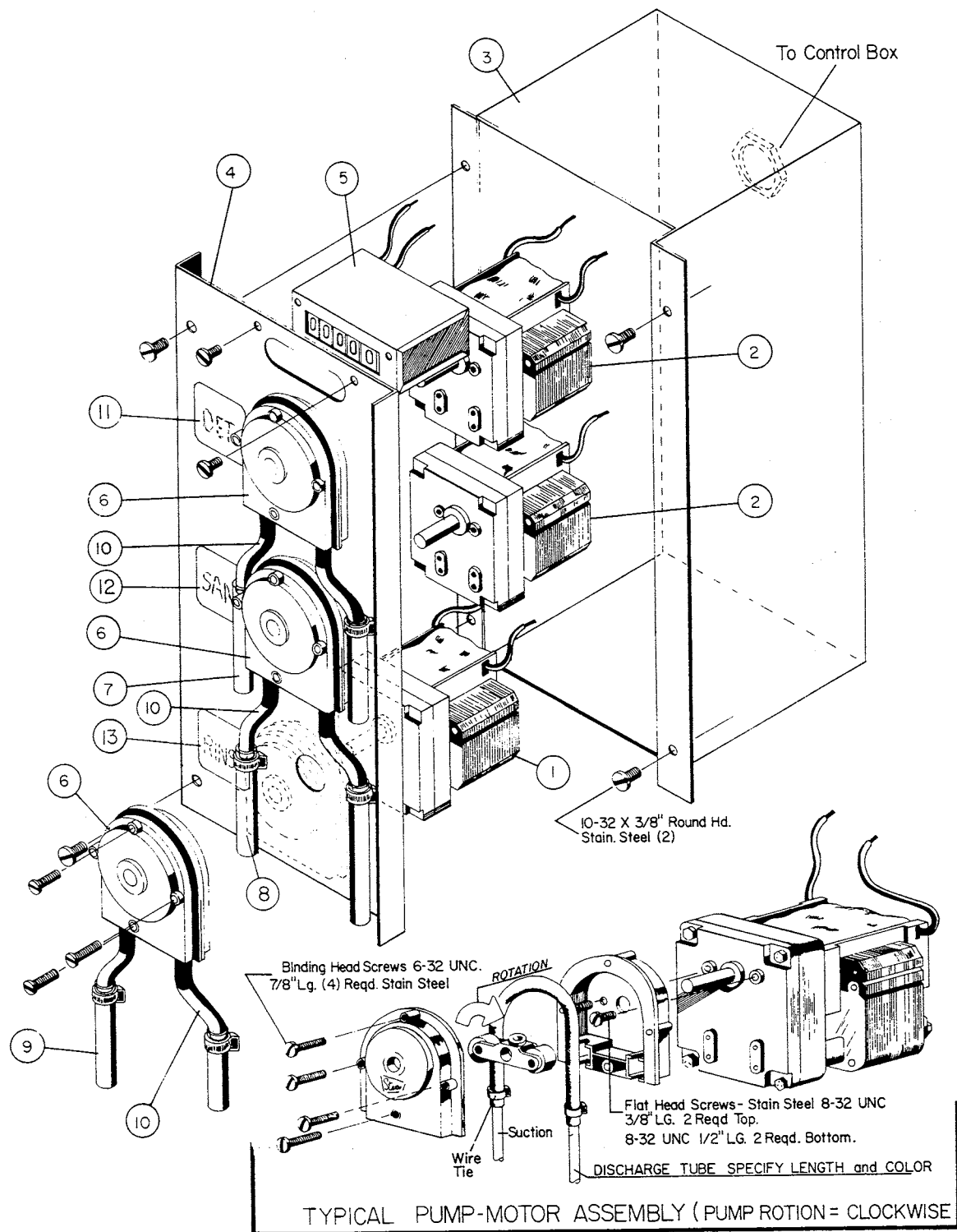
[illegible]



DRAIN SOLENOID ASSEMBLY

# DRAIN SOLENOID ASSEMBLY

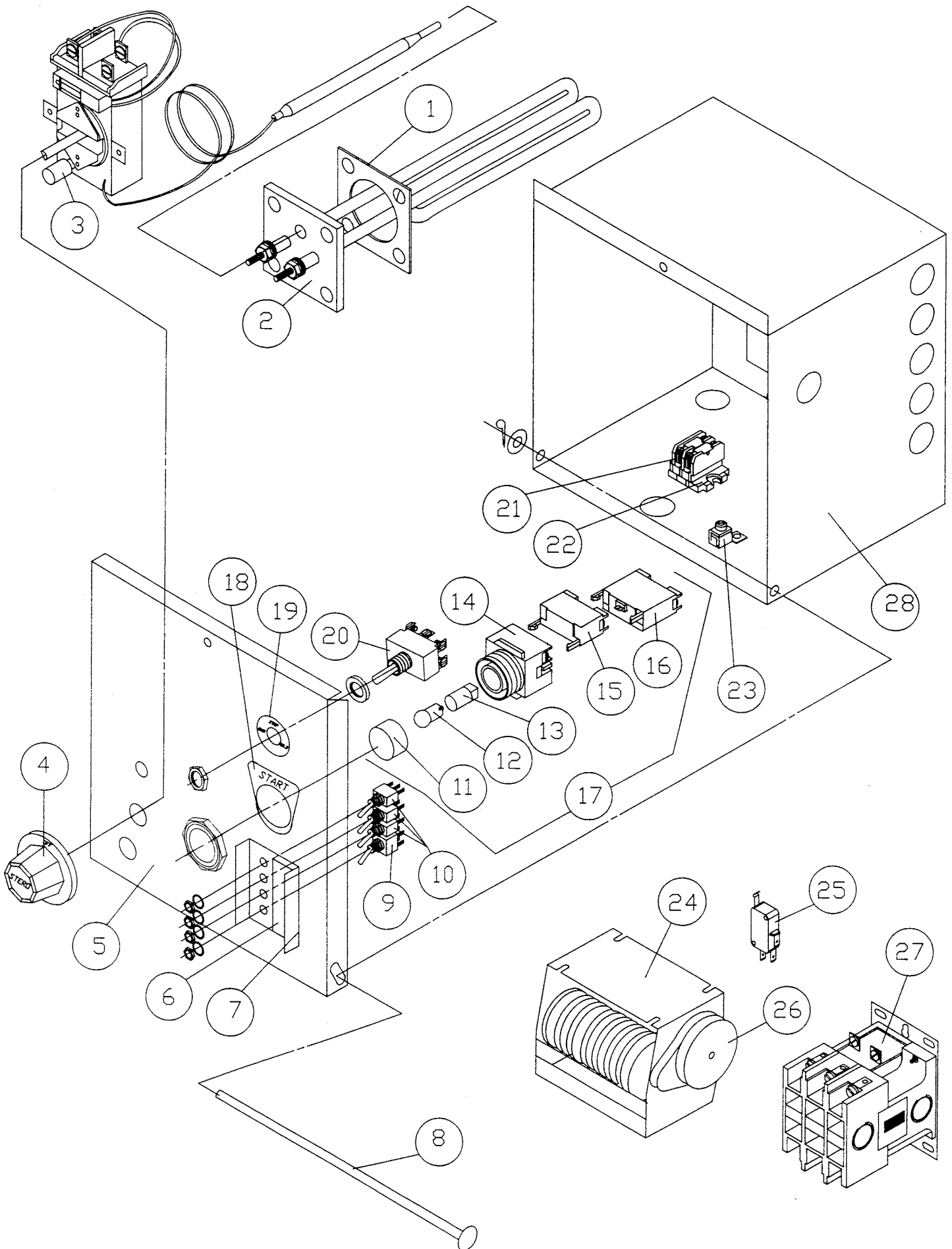
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## CHEMICAL PUMP HOUSING ASSEMBLY

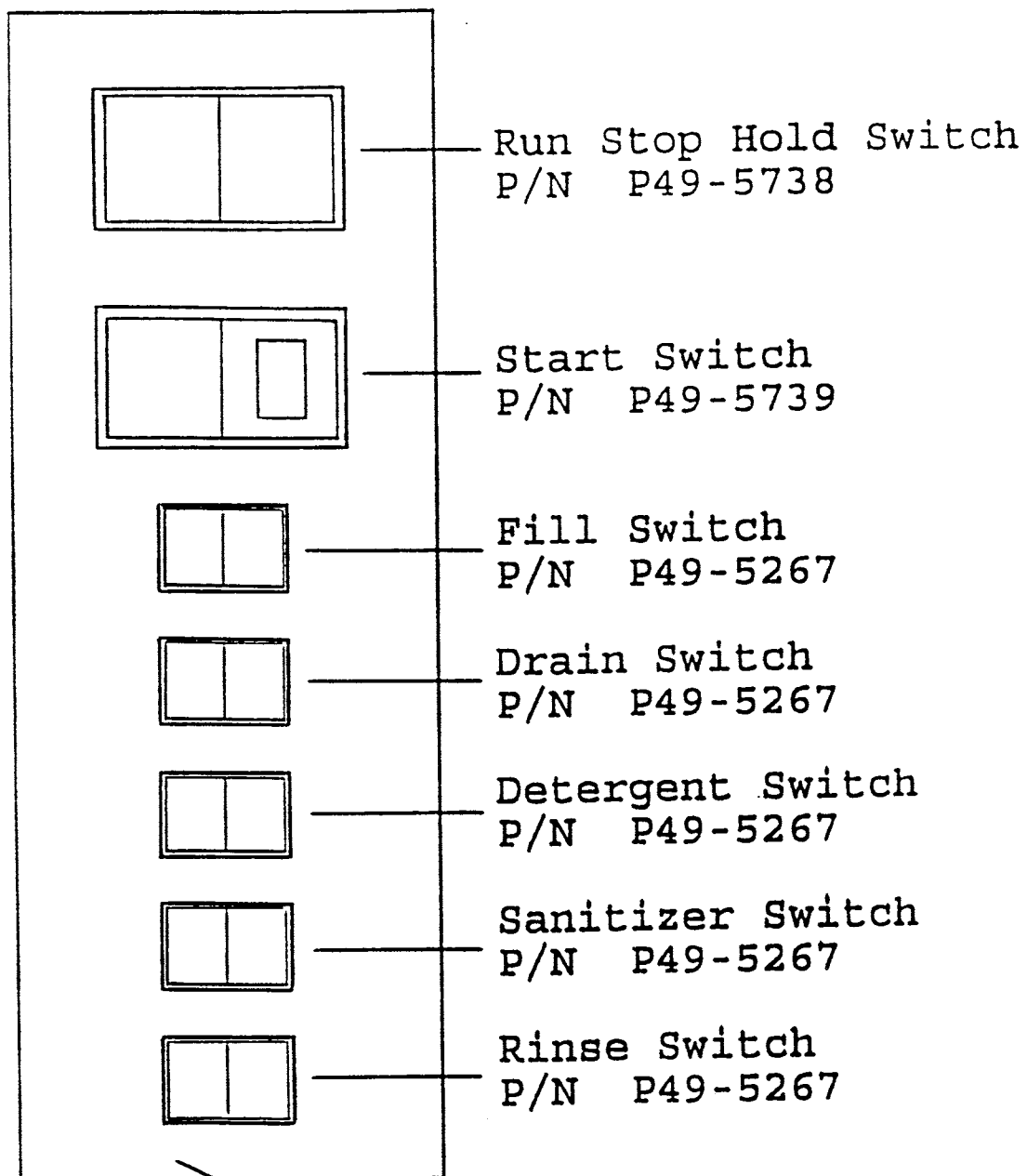
# CHEMICAL PUMP HOUSING ASSEMBLY

[illegible]



SGW CONTROL PANEL (REVISED 7-94)

Insert after page 28 in SGW manual



Decal SGW  
P/N A69-5732





# SGW CONTROL BOX ASSEMBLY

C10-3295

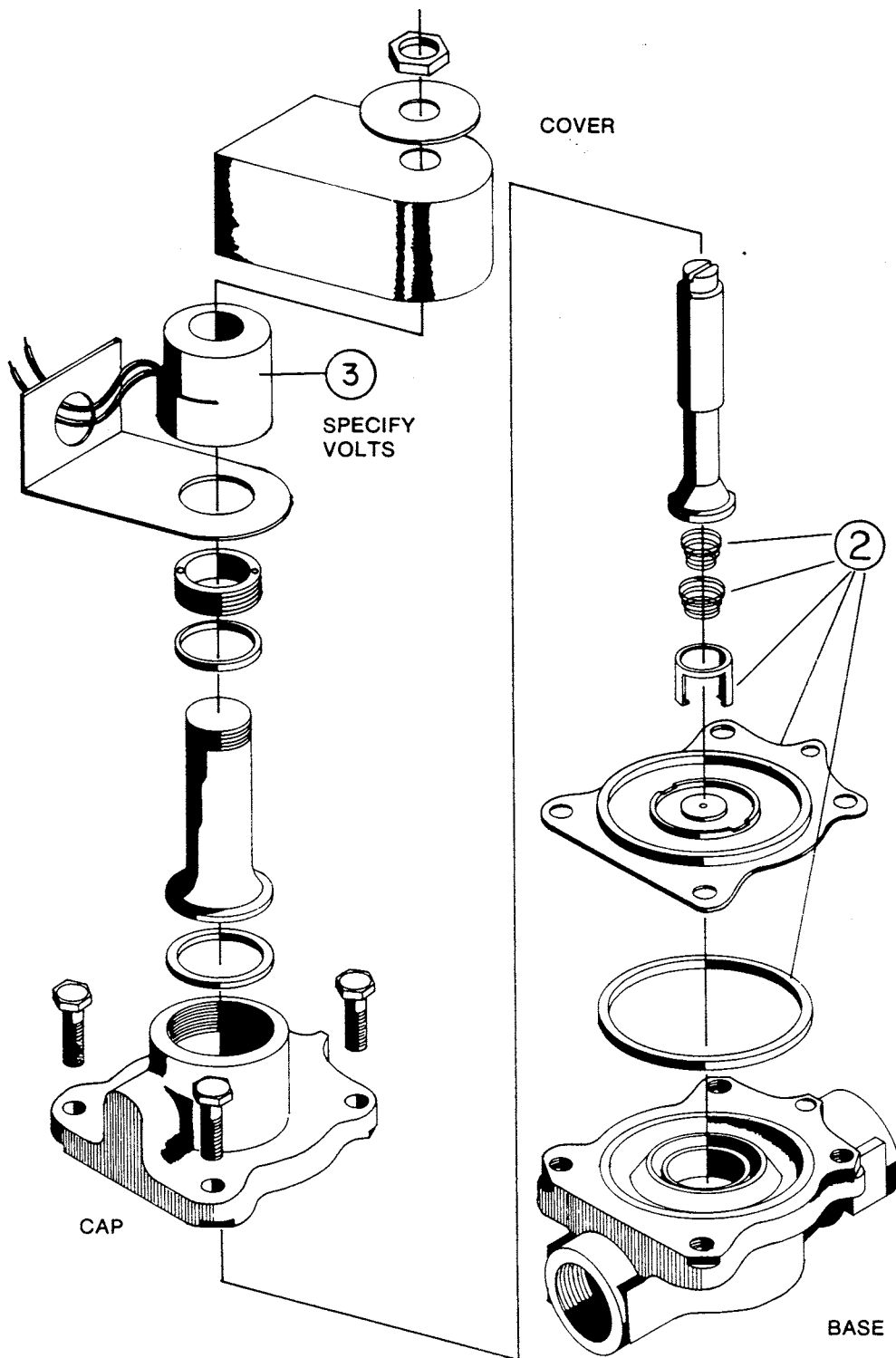
| ITEM | DESCRIPTION                             | REMARKS    | PART NO. |
|------|-----------------------------------------|------------|----------|
| 1    | GASKET, FLANGE                          |            | A57-1114 |
| 2    | 2 KW 115 VOLT HEATING ELEMENT           |            | P55-1134 |
| 3    | HEATER CONTROL THERMOSTAT               |            | P65-1130 |
| 4    | HEATER CONTROL KNOB                     |            | P65-1187 |
| 5    | CONTROL BOX COVER                       |            | C10-3268 |
| 6    | LABEL, SWITCH FUNCTION                  |            | A69-2303 |
| 7    | SWITCH GUARD                            |            | A10-3270 |
| 8    | COVER HINGE PIN W/WASHER AND COTTER PIN |            | B10-3269 |
| 9    | SWITCH - 2 POLE SPRING RETURN           |            | P49-2048 |
| 10   | SWITCH - 1 POLE SPRING RETURN           | 3 REQUIRED | P49-2047 |
| 11   | RED LENS                                |            | P49-1311 |
| 12   | LAMP                                    |            | P49-1322 |
| 13   | LAMP HOLDER SHORT                       |            | P49-1319 |
| 14   | MOMENTARY ILLUMINATED PUSH BUTTON       |            | P49-1310 |
| 15   | N/O CONTACT BLOCK                       |            | P49-1303 |
| 16   | TRANSFORMER                             |            | P49-1301 |
| 17   | PUSH BUTTON START ASSEMBLY              |            | A10-4517 |
| 18   | LABEL "START"                           |            | A69-1429 |
| 19   | LABEL "STOP / RUN / HOLD"               |            | A69-2296 |
| 20   | SWITCH - STOP / RUN / HOLD              |            | P49-2043 |
| 21   | TERMINAL BLOCK                          | 2 REQUIRED | P52-1099 |
| 22   | TERMINAL BLOCK END SECTION              |            | P52-1100 |
| 23   | GROUND LUG                              |            | P52-1156 |
| 24   | MECH. TIMER                             |            | P46-1858 |
| 25   | REPLACEMENT MICRO SWITCH                |            | P46-1859 |
| 26   | MECH. TIMER REPLACEMENT MOTOR           |            | P46-1860 |
| 27   | CONTACTOR                               |            | P47-1157 |
| 28   | CONTROL BOX HOUSING                     |            | C10-3267 |

NOTE: ITEMS 1 THRU 4 ONLY USED WITH HEATER OPTION

# WATER SUPPLY PIPING WITH CHEMICAL INJECTION TOWER ASSEMBLY

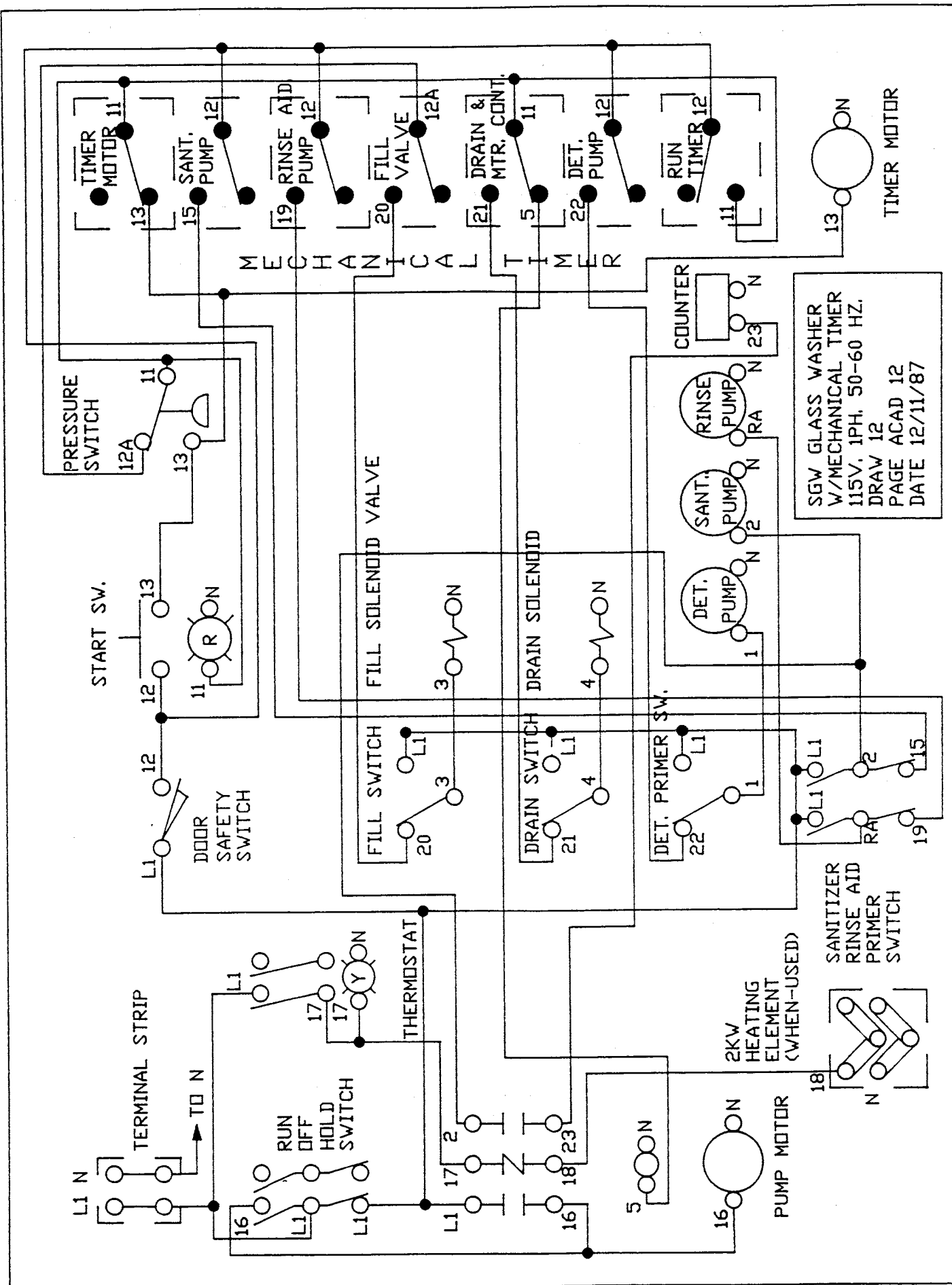
| ITEM | DESCRIPTION                       | REMARKS      | PART NO. |
|------|-----------------------------------|--------------|----------|
| 1    | LINE STRAINER 3/8"                |              | P63-1114 |
| 2    | LINE STRAINER SCREEN              |              | P63-1116 |
| 3    | 3/8" SOLENOID VALVE               |              | P54-2051 |
| 4    | 5/16" TUBE x 3/8" MIP 90° ELBOW   |              | P68-2069 |
| 5    | 3/8" x 2 1/2" NIPPLE              |              | P68-2063 |
| 6    | STEEL STRAP 1/2" EMT              |              | P52-1119 |
| 7    | TANK PRE HEATER                   | SGW-H OPTION | B10-1436 |
| 8    | 1/2" x 1/2" 90° ELBOW CxM         | SGW-H OPTION | P68-1476 |
| 9    | TOWER BRACKET WATER SUPPLY TUBE   |              | A10-1439 |
| 10   | WATER SUPPLY INPUT TUBE           |              | B10-1438 |
| 11   | 1/2" x 1/4" ADAPTOR CxM           |              | P68-1469 |
| 12   | UNION BRACKET SUPPLY TUBE         |              | A10-1437 |
| 13   | LOCKNUT 1/4"                      |              | A10-1441 |
| 14   | 5/16" TUBE x 1/4" FIP ST. FITTING |              | P68-2068 |
| 15   | CHEMICAL INJECTOR WATER TOWER     |              | C10-1416 |
| 16   | LABEL "DETERGENT"                 |              | A69-4311 |
| 17   | LABEL "RINSE ADDITIVE"            |              | A69-1440 |
| 18   | LABEL "SANITIZER"                 |              | A69-4312 |
| 19   | BULKHEAD FITTING                  |              | P68-1019 |
| 20   | CHEMICAL TUBE - RED               |              | P68-1021 |
| 21   | CHEMICAL TUBE - BLUE              |              | P68-1023 |
| 22   | CHEMICAL TUBE - WHITE             |              | P68-1022 |
| 23   | SIGHT TUBE PVC                    |              | A68-1340 |
| 24   | 5/16" TUBE x 1/4" MIP ST. FITTING | SGW-H OPTION | P68-2067 |
| 25   | NEEDLE VALVE STRAIGHT             | SGW-H OPTION | P68-1511 |
| 26   | 1/2" x 1/4" BRASS BUSHING         | SGW-H OPTION | P68-1534 |
|      |                                   |              |          |
|      |                                   |              |          |
|      |                                   |              |          |

NOTE COMPLETE VALVE (SPECIFY  
VOLTAGE) ITEM N° 1 OR FOR "COIL" ITEM  
N° 3



3/8" SOLENOID VALVE ASSEMBLY

[illegible]







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