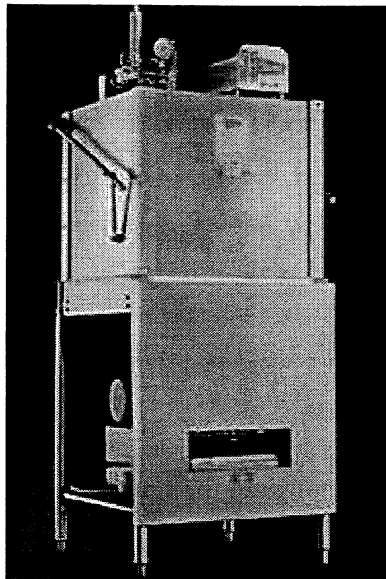




INSTRUCTION & PARTS MANUAL

LOW TEMP DOOR



**STERO
Dishwashing Machines**

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 agencies' 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 its factory authorized service agent of any alleged defects. All defective parts become the property of Stero and must be returned to Stero, or its 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 deliming 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.

UL 73 Grounding Instructions:

This Appliance must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

INSTRUCTION & PARTS MANUAL

STERO MODEL SC-20-1A & SC-20-2A DISHWASHER

INTRODUCTION

The information contained in this manual is set forth as clearly as possible so that the operator may follow, without difficulty, the necessary instructions. No special training is required.

Careful attention to the instructions outlined herein as to installing, starting, operating, and maintaining the equipment will insure long and satisfactory service from the Stero dishwasher.

SECTION 1

Installation Instructions
Operation
Adjustments
Maintenance
Trouble Shooting Guide

SECTION 2

Parts Drawings
Parts Numbers & Description
Wiring Diagram

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MODEL SC-20-1A	
Assembly & Parts Drawings -	
Part Numbers & Description	Page 16 thru 35
MODEL SC-20-2A	
Assembly & Parts Drawings -	
Part Numbers & Description	Page 37 thru 60
Parts Common to Both Models	Page 61 thru 83
Wiring Diagrams - select diagram applicable	
to your machine, i.e. model number & voltage	Page 84 thru 89
<i>NOTE: All wiring diagrams show Stero's chemical dispenser. Disregard if Stero dispenser is not used.</i>	

INSTALLATION INSTRUCTIONS

1. Set machine in place and level side to side; and front to back.
 - a. Place level on turned out lip of tank.
 - b. Adjust level of machine by screwing adjustable feet in or out as necessary.

2. Dishtables can now be set in place:
 - a. The dishtable lip or turndown **MUST** be sealed with silicone or similar sealing compound. This compound must be applied so that it is compressed between the table lip and the machine tank. Be generous with this compound! This is a vital part of the installation to prevent leaks.
 - b. The dishtable lip must be tightly secured to the vertical edge of the machine tank. This is to allow maximum area for the door to travel. If the table interferes with the door it will cause premature wear of the door and guides and will **NOT** be covered under machine warranty.
 - c. The dishtables must be secured at the backsplash and the table lip by bolting or welding to the rear mullion and the tank lip.

3. Make final plumbing connections per tags attached to connection points.
COMPLY WITH LOCAL PLUMBING CODES
 - a. One (1) 3/4" NPT 140° water supply.
NOTE: Install shut off valve prior to machine connection.
 - b. Connect 2" IPS drain to either side of drain holding tank. Be sure unused connection is capped.

4. Electrical connections.
NOTE: All Stero low temperature door type dishwashers are single phase (115V., 208V., or 230V.)
See name plate on front door of the machine and size breaker and wire accordingly.
COMPLY WITH LOCAL ELECTRICAL CODES
 - a. Terminal strip is provided for the electric service connection. The terminal strip is located in the control box on top of the machine and is marked L1 & N for 115V., and L1 & L2 for 208V. and 230V. machines. A knock out is provided in the back of the control box for electrical conduit connection.

**NOTE - DISCONNECT POWER
BEFORE REMOVING ELECTRICAL BOX COVERS.**

OPERATION: START-UP

1.

Make sure drain plug is seated in drain.

SC 20-1A Page 34 Item # 9
SC 20-2A Page 56 Item # 9
2.

Set pump intake screen in place.

SC 20-1A Page 22 Item # 8
SC 20-2A Page 44 Item # 3
3.

Fill the machine by pressing the fill toggle switch to left.
Fig. 1

NOTE: Fill level is the top of the pump intake screen handle.

4.

Be sure the upper and lower revolving wash arms are in place with end caps tightly secured. Spin to test for free rotation.
5.

Place lower toggle switch (Fig. 1) in run position and close door - the machine is designed to start automatically when doors are closed.

NOTE: Model SC-20-2A must have two dish racks in the machine to start.

NOTE: Operation of the lowest toggle switch, Fig. 1.
The hold position is designed to be used when a longer wash cycle is desired for cleaning heavy soils from ware or when chemically cleaning the machine. Hold in rinse cycle when longer rinse is desired. Use hold for wash or rinse cycle only.

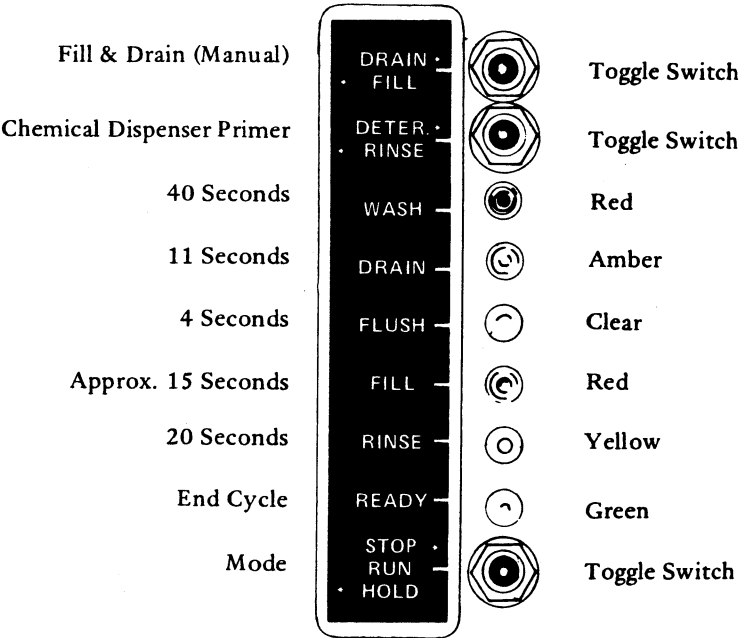


Figure 1

SEQUENCE OF EVENTS

1. Wash cycle — 40 seconds. Figure 1.
 - a. Detergent dispenser is energized during wash cycle.
2. Drain — 11 seconds.
3. Flush — 4 seconds. Before drain closes the fill solenoid valve will open, the pump motor will start, and the machine will be flushed of any debris or detergent residue.
4. Fill — approximately 15 seconds.

The drain closes at the end of the 4 second flush, and fills to the top of the pump intake screen handle.

 - a. Sanitizer and rinse aid dispensers are activated through fill and rinse cycle.
5. Rinse — 20 seconds.
6. Ready light on after rinse cycle.

The clean ware is now ready for removal and the machine is **READY** to wash the next rack(s) of soiled ware.

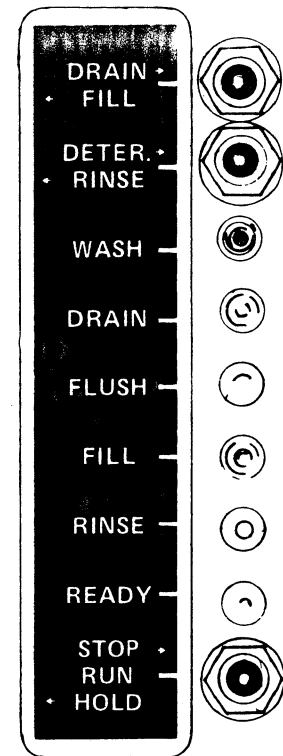


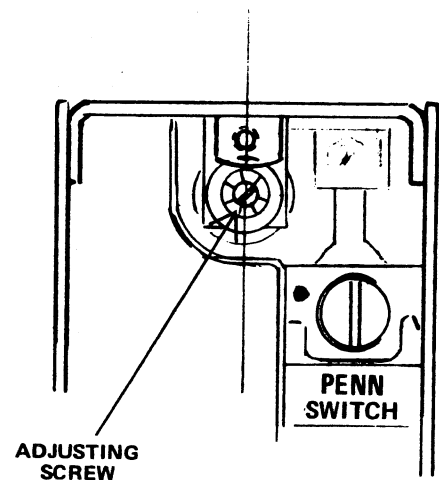
Figure 2

ADJUSTMENTS

The machine has been thoroughly tested and adjustments made at the factory. Due to varying water pressures, the water level may have to be readjusted.

1. Water level adjustment.
 - a. Adjust pressure regulator for 10-16 PSI flow pressure.
 - b. Remove cover from pressure switch, located behind the front panel (SC-20-1A next to pump motor; SC-20-2A attached to left front leg). Turn the adjustment clockwise to raise the water level, counter-clockwise to lower water level.

NOTE: Fill level is the top of the pump intake screen handle.



INSTRUCTIONS TO CHEMICAL DISPENSER SERVICE MAN AND/OR INSTALLER.

There are four terminals provided in the control box for the dispenser (transformer) connections. The terminals are numbered and a label is bonded to the wall, just above the terminal strip, identifying the connection points. Fig. 3.

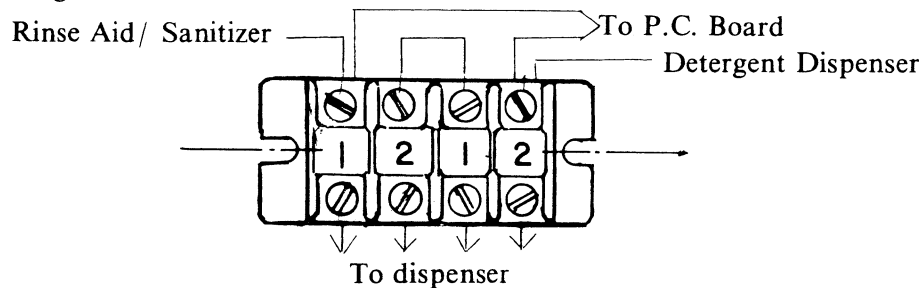


Figure 3

The second toggle switch from the top of the control panel (Fig. 2) is provided for testing or priming the dispensers.

The detergent side of the terminal strip is energized (40 seconds) during the wash cycle.

The rinse aid and sanitizer side of the terminal strip is energized (approx. 35 seconds) during the fill and rinse cycle.

Neither of the time cycles are adjustable. Any adjustment of time must be made within the dispenser.

2. Chemical feed connections.

The machine is filled through an air gap (water tower) installed at the top back edge of the hood (Fig. 4). Three plastic bulkhead fittings are provided on the side of the air gap that are to be used as chemical injection points. The bulkhead fittings will accept 1/4" O.D.. plastic tubing.

NOTE: Insert the feeder tube so that the tubing extends 1/4"-1/2" beyond the end of the bulkhead fitting. Fig. 5. This will protect the interior of the machine from raw chlorine burn or corrosion.

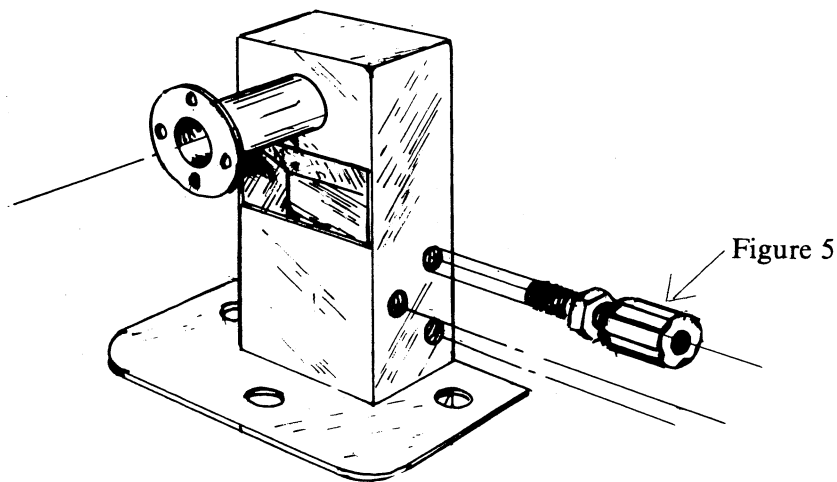


Figure 4

NOTE: The National Sanitation Foundation (NSF) requirement is a minimum of 50 PPM of available chlorine at the end of the rinse cycle. Stero Dishwashing Machine Mfg. Company recommends that chlorine be maintained at 60 PPM. Excessive use of chlorine will cause an odor and leave a cloudy grey film on glassware and stainless flatware.

MAINTENANCE

You have just purchased an easy machine to maintain.

Since soils, washed from the dinnerware 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 arms, paying close attention to the sprayers to see that they are free of any debris that might interrupt the spray pattern (No. 1 & No. 2 Page 32). If a sprayer is clogged, simply loosen the wash arm end caps (No. 3 Page 32), 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. (No. 8 Page 22 - SC-20-1A) (No. 3 Page 44 - SC 20-2A)
3. Remove scrap screen from drain sump and clean. (No. 5 Page 22 - SC-20-1A) (No. 5 Page 44 - SC 20-2A)
4. Check level of chemical containers, replace as necessary. When replacing chemical containers use prime switch on P.C. board to prime.

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 arms.

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.

TROUBLE SHOOTING GUIDE **SC-20-1A, SC-20-2A, SC-25-1, SC-25-2, & SC-25-3**

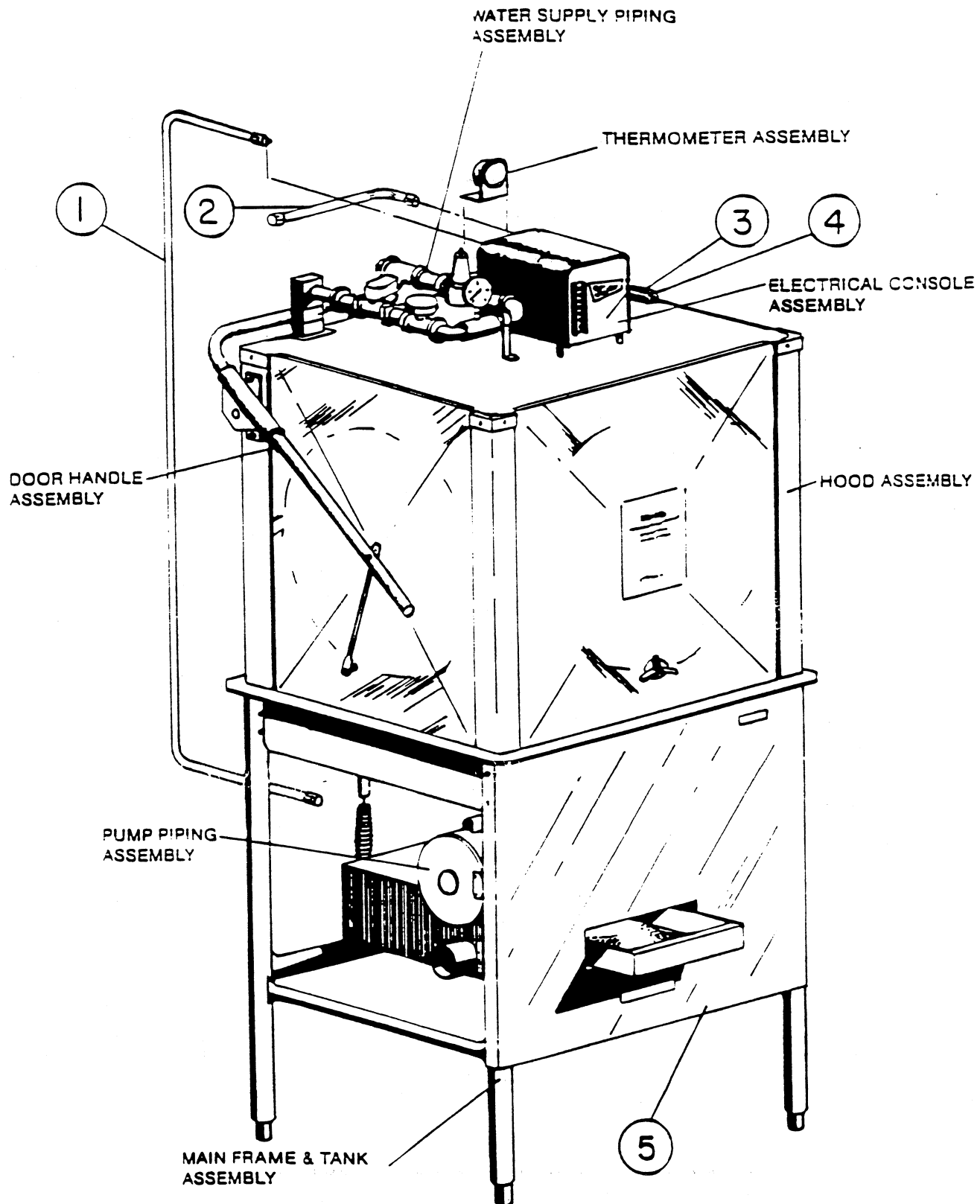
PROBLEM	LOOK FOR	CORRECTION
MACHINE WILL NOT START	<ol style="list-style-type: none"> 1) Tripped circuit breaker. 2) Stop-Run-Hold switch not in run position. 3) Blown fuse on P.C. board. 4) Defective door switch. 5) SC-20-2A Must have two racks in machine. 6) SC-20-2A-Defective 2 rack switch. 	<ol style="list-style-type: none"> 1) Reset breaker in customer breaker panel. 2) Switch to run - center position. 3) Replace 3 amp fuse. 4) Check & replace if necessary. <p>NOTE: if new switch is not available, jump terminals #12 & #13 on P.C. board. Close door-trip Stop-Run-Hold Switch to stop then back to run. Machine will then start.</p> <ol style="list-style-type: none"> 5) Place two racks in machine. 6) Replace reed switch. <p>NOTE: This switch must be open in order for the machine to run. Disconnect reed switch leads at junction box mounted on left front leg behind front cover panel — Cap off wires #10 & #14 from P.C. boards — DO NOT CONNECT 10 & 14 TOGETHER. Machine will now start without 2 racks being in place.</p>
GOES FROM WASH TO READY MODE	<ol style="list-style-type: none"> 1) Defective door switch. 2) Defective P.C. board. 	<ol style="list-style-type: none"> 1) Check switch, (see #4 above) adjust or replace if necessary. 2) Replace if necessary.
MACHINE STAYS IN WASH MODE	<ol style="list-style-type: none"> 1) Check Stop-Hold-Run switch. 2) Defective P.C. board. 	<ol style="list-style-type: none"> 1) If in HOLD position, switch to run - center position. 2) Replace P.C. board.
BLOWN FUSES	<ol style="list-style-type: none"> 1) Grounded wire. 2) Loose electrical connection. 3) Defective detergent equipment. 4) Drain solenoid plunger binding. 	<ol style="list-style-type: none"> 1) Check wiring — repair or replace wire as necessary. 2) Tighten connection. 3) Disconnect & call detergent representative. 4) Check drain solenoid for loose base plate fasteners. If loose, align solenoid & tighten base plate fasteners. Replace solenoid if necessary.
PUMP MOTOR KICKING OUT Rating plate on motor will show voltage & amp limit.	<ol style="list-style-type: none"> 1) Wrong motor rotation. 2) Wrong line voltage. 3) Pump seal - too much tension (pump will draw hi-ampage if seal has too much tension) (use amp probe). 4) Broken glass, dish, silver, etc. in wash pump. 5) Water level too low. 	<ol style="list-style-type: none"> 1) Change rotation. 2) Check with voltmeter, must match nameplate voltage. 3) Adjust impeller away from face of pump (1/32 " approx.). 4) Remove pump & clean housing — check intake & discharge sides & clean if necessary. 5) Adjust water level - see page 9.

TROUBLE SHOOTING GUIDE - Continued
SC-20-1A, SC-20-2A, SC-25-1, SC-25-2, & SC-25-3

PROBLEM	LOOK FOR	CORRECTION
MACHINE WILL NOT FILL	<ol style="list-style-type: none"> 1) Closed water supply valve. 2) Plugged line strainer. 3) Defective pressure switch. 4) Defective fill valve. 5) Drain valve open. 6) Blown fuses. 7) Defective fill switch. 8) Defective P.C. board. 	<ol style="list-style-type: none"> 1) Open valve. 2) Remove & clean screen. 3) Check & replace if necessary. 4) Check & replace if necessary. 5) Check seat for food particles, check "O" ring (broken or out of place). 6) Check & replace if necessary. (3 amp fuse) 7) Replace fill switch. 8) Replace P.C. board.
MACHINE OVER FILLS Fill level is to 1/2" of overflow. DO NOT UNDER FILL	<ol style="list-style-type: none"> 1) Pressure switch not adjusted properly. 2) Defective pressure switch. 3) Defective fill valve. 4) Defective P.C. board. 	<ol style="list-style-type: none"> 1) Remove cover from pressure switch (which is located behind the front cover panel. Using screw driver, turn adjustment screw counter-clockwise - page 9. 2) Check & replace if necessary. 3) Check & replace if necessary. 4) Replace. <p>NOTE: The 1/4" copper tubing & fitting may be clogged — remove & clean from pump housing to pressure switch.</p>
WASH TANK WON'T HOLD WATER	<ol style="list-style-type: none"> 1) Food particles holding drain pipe from seating. 2) Drain not closing. 3) Defective "O" ring. 4) Defective drain solenoid. 	<ol style="list-style-type: none"> 1) Clean drain valve & seat. 2) Adjust linkage between drain body & drain solenoid. 3) Replace "O" ring. 4) Check & replace as necessary. <p>Drain plug guide may be bent — straighten.</p>
DRAIN HOLDING TANK OVERFLOWING	<ol style="list-style-type: none"> 1) Holding tank scrap screen plugged. 2) Holding tank drain line plugged. 3) Check water level for over-filling. 	<ol style="list-style-type: none"> 1) Clean scrap screen. 2) Clean out drain line. 3) Adjust water level.
NOT WASHING PROPERLY	<ol style="list-style-type: none"> 1) Spray arm plugged. 2) Spray arm not revolving. 3) Empty detergent container. 4) Low water level. 5) Defective P.C. board. 6) Excessive foam. 	<ol style="list-style-type: none"> 1) Remove & clean arm body & jets. 2) Remove & clean arm & clean shaft & bushing (clean groove in bushing) 3) Call detergent representative. 4) Adjust fill to proper level. 5) Check operation of machine & replace if necessary. 6) Temperature too low, or excessive rinse additive

TROUBLE SHOOTING GUIDE - Continued
SC-20-1A, SC-20-2A, SC-25-1, SC-25-2, & SC-25-3

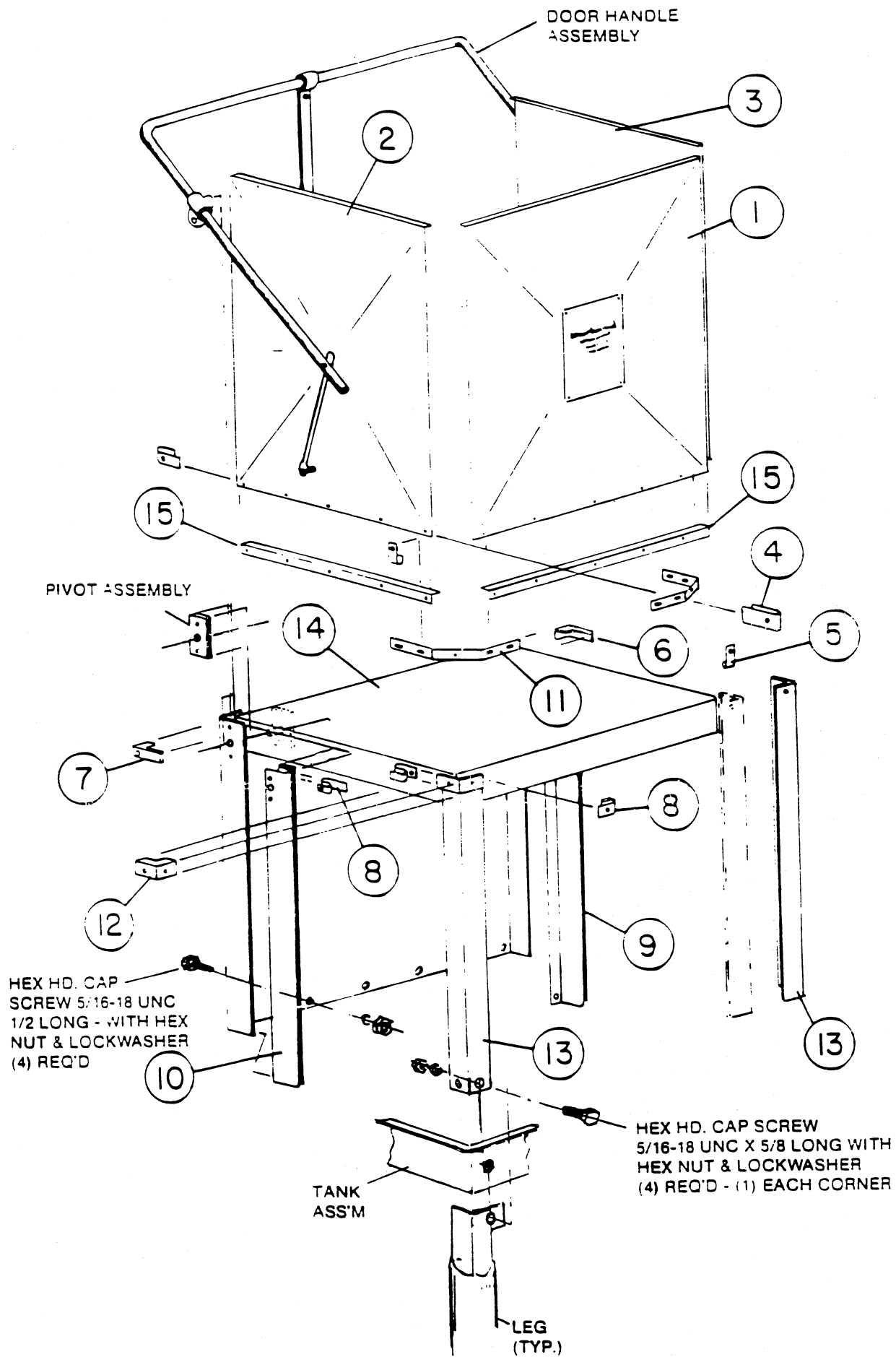
PROBLEM	LOOK FOR	CORRECTION
NOT RINSING PROPERLY	1) Check rinse aid injector. 2) Low water level. 3) Not draining wash water completely. 4) Defective P.C. board.	1) Not working — call detergent representative. 2) Check fill system & adjust or correct as necessary. 3) Check, if over filling &/or drain not opening. Correct as necessary. 4) Replace P.C. board.
WATER LEAKING OUT OF DOOR	1) Spray arms not revolving. 2) Spray arm clean-out caps not in place. 3) No dish rack in machine.	1) Remove spray arms. Clean. 2) Reset clean-out caps. 3) Place rack in machine.
WON'T FEED DETERGENT OR RINSE AID OR CHLORINE	1) Check detergent container. 2) Plugged detergent tubing. 3) Check terminals provided for dispensing equipment to be sure dispensing equipment is fed electrically during wash cycle (detergent) & rinse cycle (rinse injector & chlorine pumps). 4) Pump(s) not running.	1) If empty — replace with full container — use priming switch to get flow started. 2) Call detergent representative. 3) Replace P.C. board — if necessary. 4) Check fuse on dispenser P.C. board. Check detergent dispenser P.C. board for power to pump(s). Check power from main P.C. board to pumps and dispenser P.C. board. Check pump motors. Replace if necessary.
CLOUDY APPEARING GLASSES	1) Foam at end of rinse cycle. 2) Excessive chlorine concentration. 3) Machine not draining completely. Check for alkalinity in rinse water. 4) High total dissolved solids.	1) If temperature under 130°, raise temperature of hot water supply heater. Call detergent salesman - too much rinse additive. 2) Call salesman to decrease chlorine level to 50 P.P.M. 3) Water level too high - adjust. Drain not opening fully. Adjust drain mechanism to have 1/16 inch play only. See page 34. Part #6 to lift 1/16" only before lifting drain. 4) Call expert detergent supplier.



SC 20-1 GENERAL ASSEMBLY

SC 20-1 GENERAL ASSEMBLY

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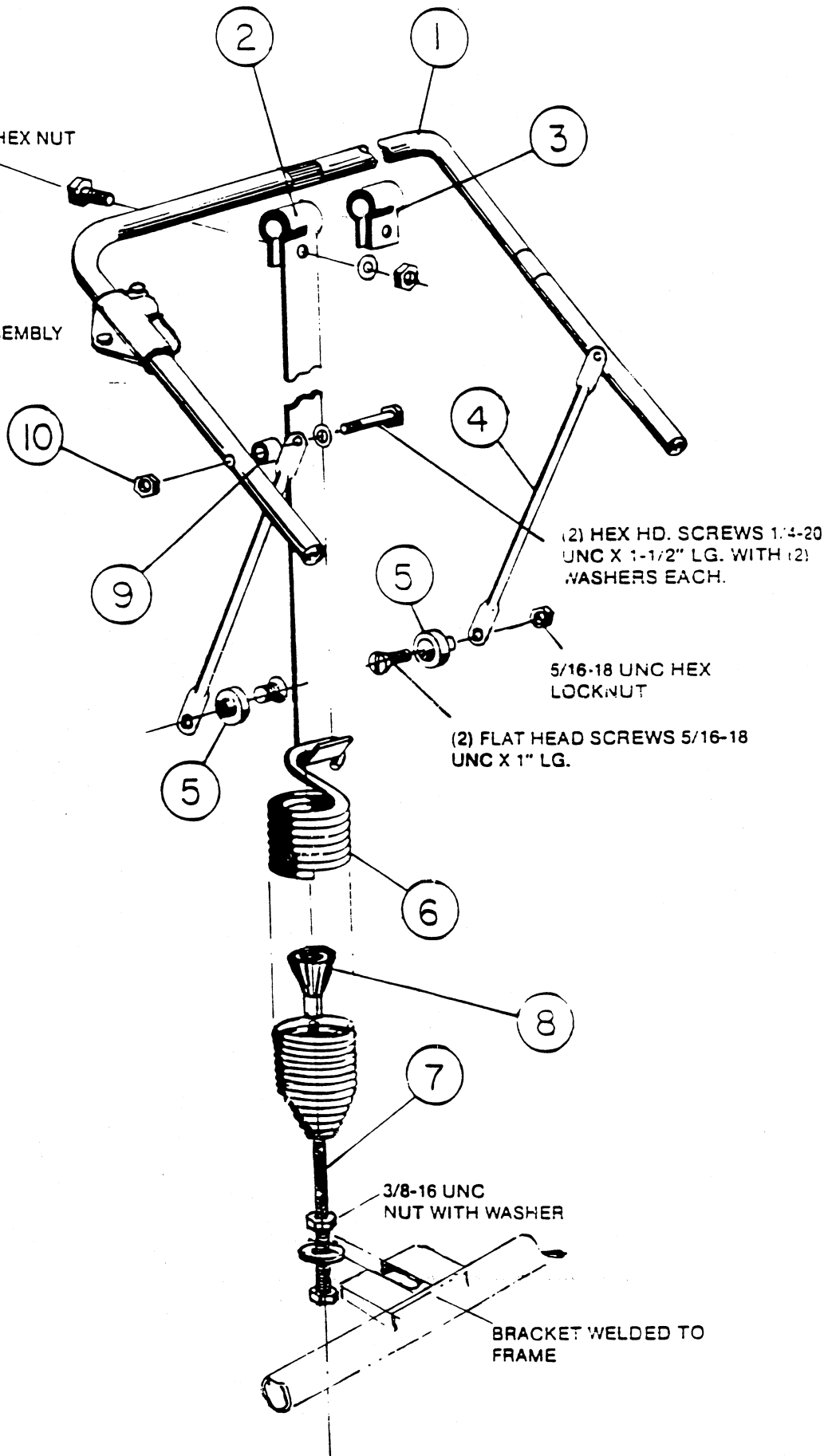
SC 20-1 HOOD ASSEMBLY

SC 20-1 HOOD ASSEMBLY

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HEX HQ CAP SCREW
1/4-20 UNC 3/4 LONG
WITH LOCKWASHER & HEX NUT

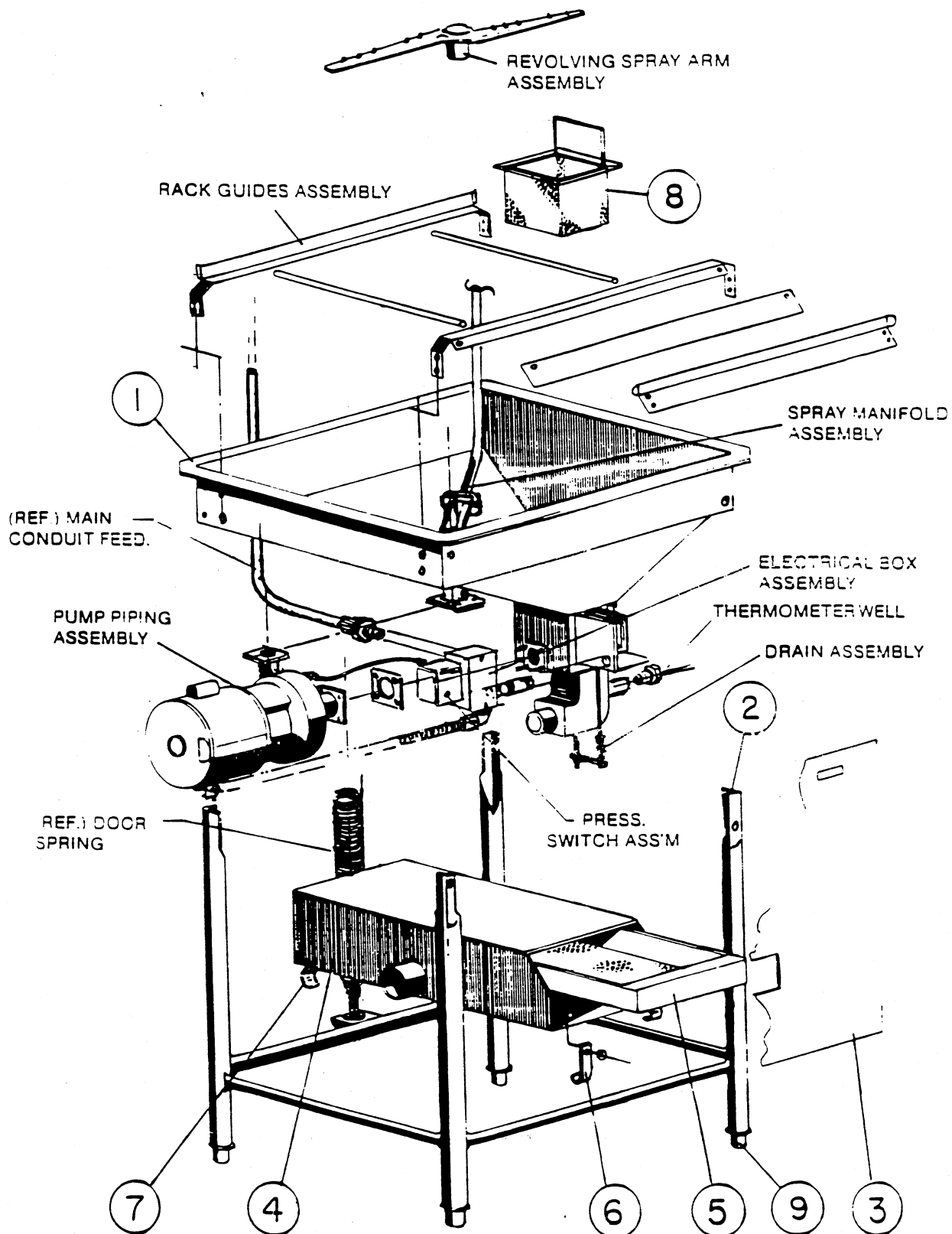
PIVOT ASSEMBLY



SC 20-1 DOOR HANDLE ASSEMBLY

SC 20-1 DOOR HANDLE ASSEMBLY

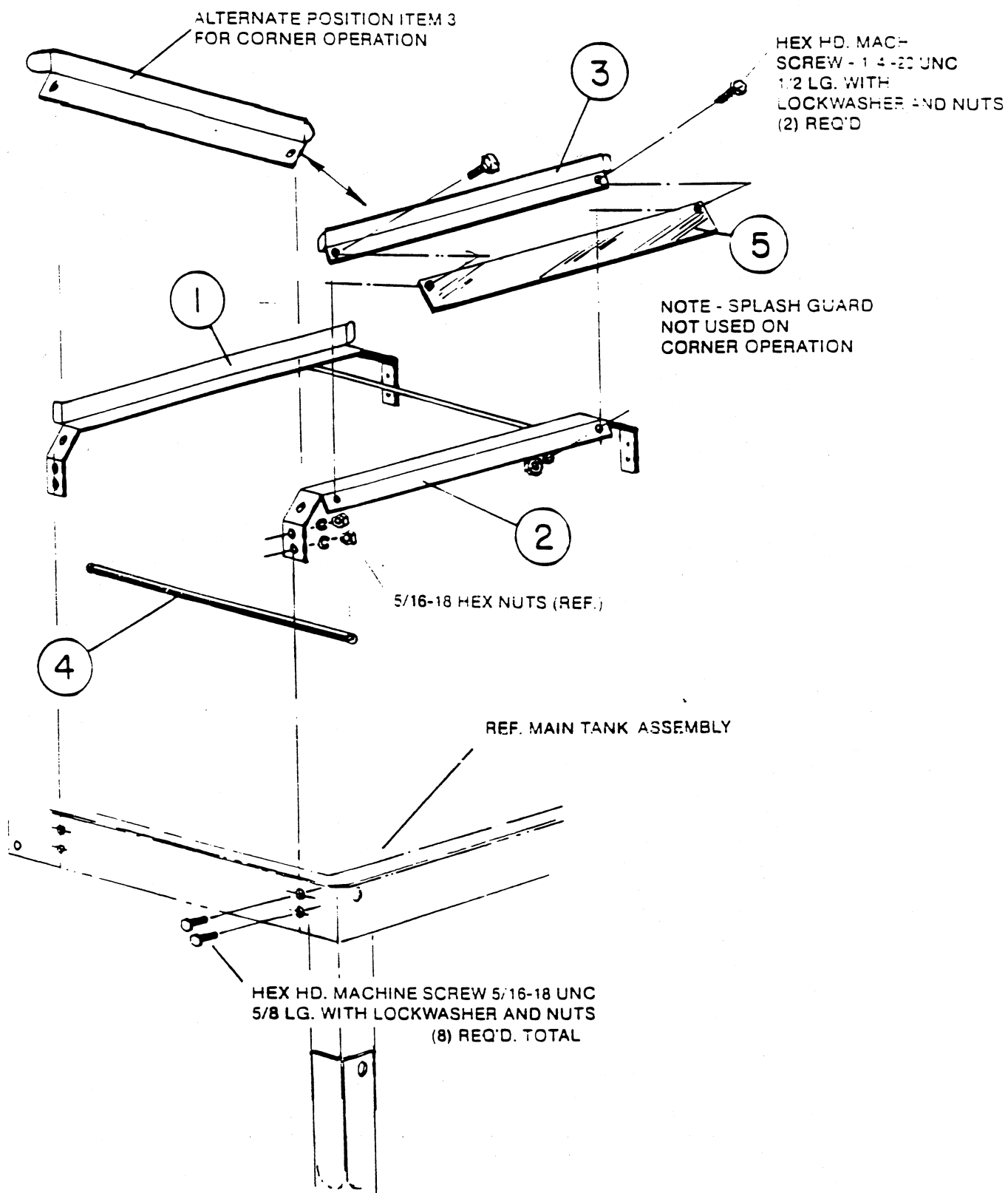
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SC 20-1 FRAME AND TANK ASSEMBLY

SC 20-1 FRAME AND TANK ASSEMBLY

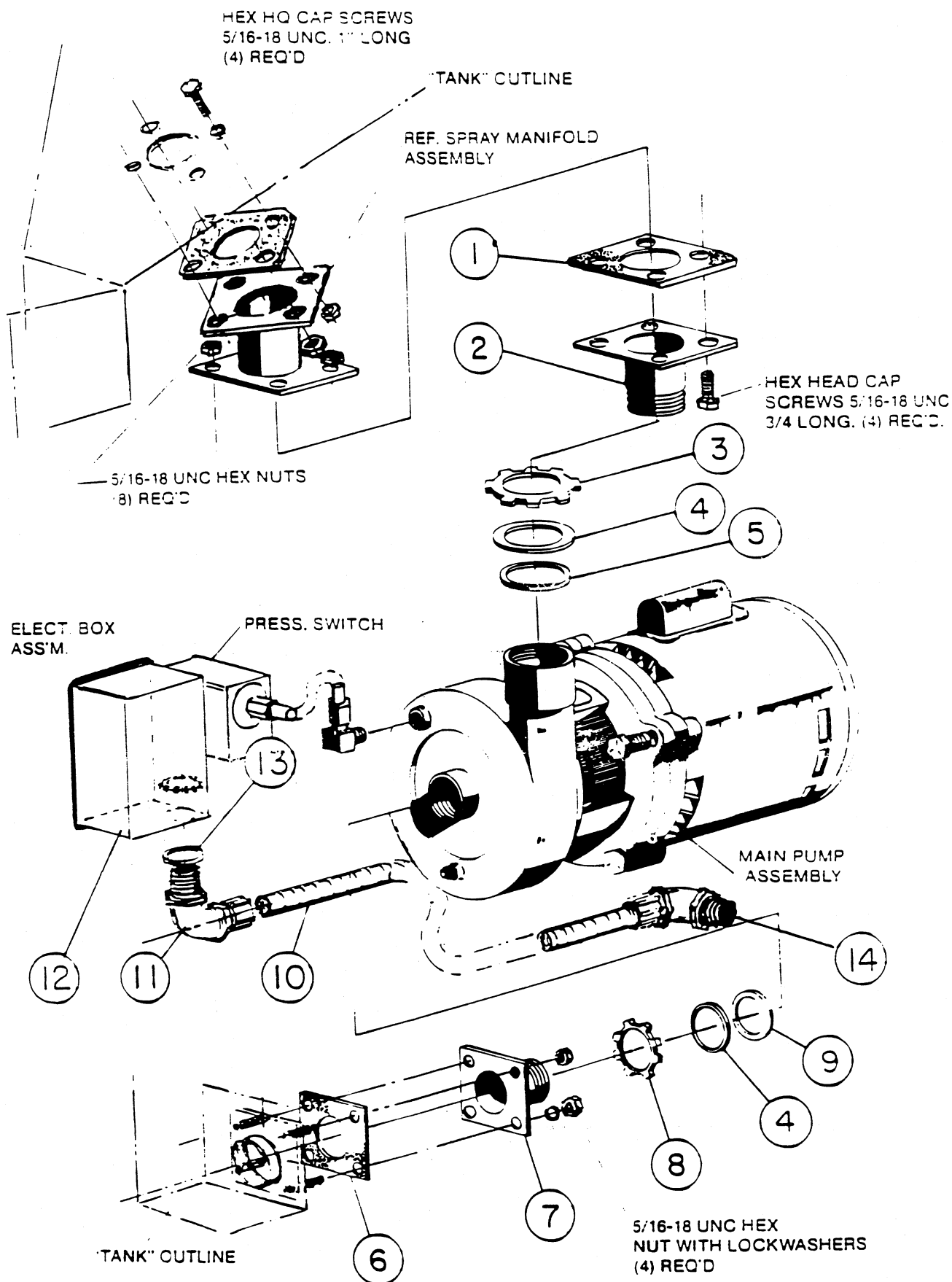
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SC 20-1 RACK GUIDES, ASSEMBLY

SC 20-1 RACK GUIDE ASSEMBLY

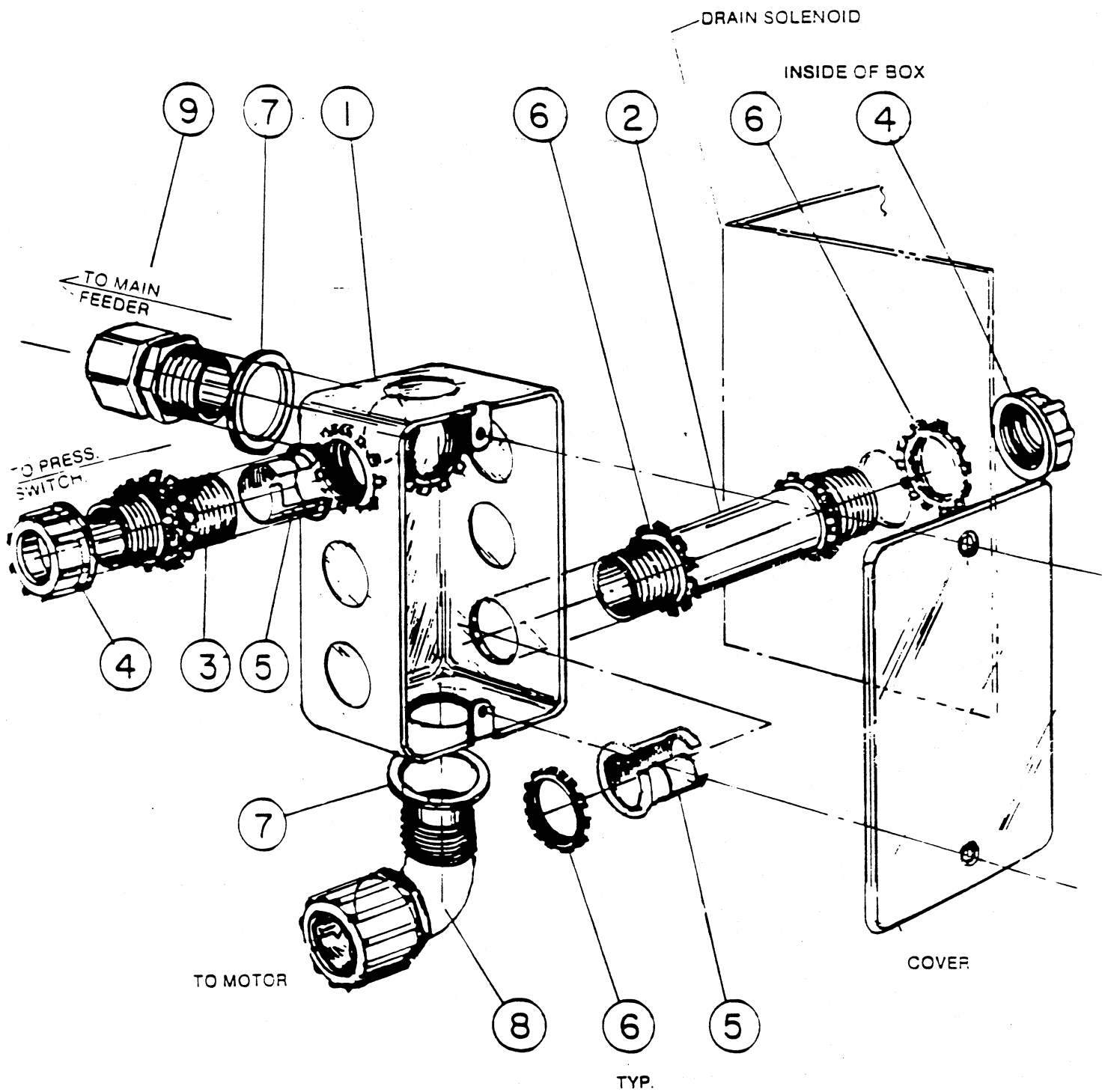
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SC 20-1 PUMP PIPING ASSEMBLY

SC 20-1 PUMP PIPING ASSEMBLY

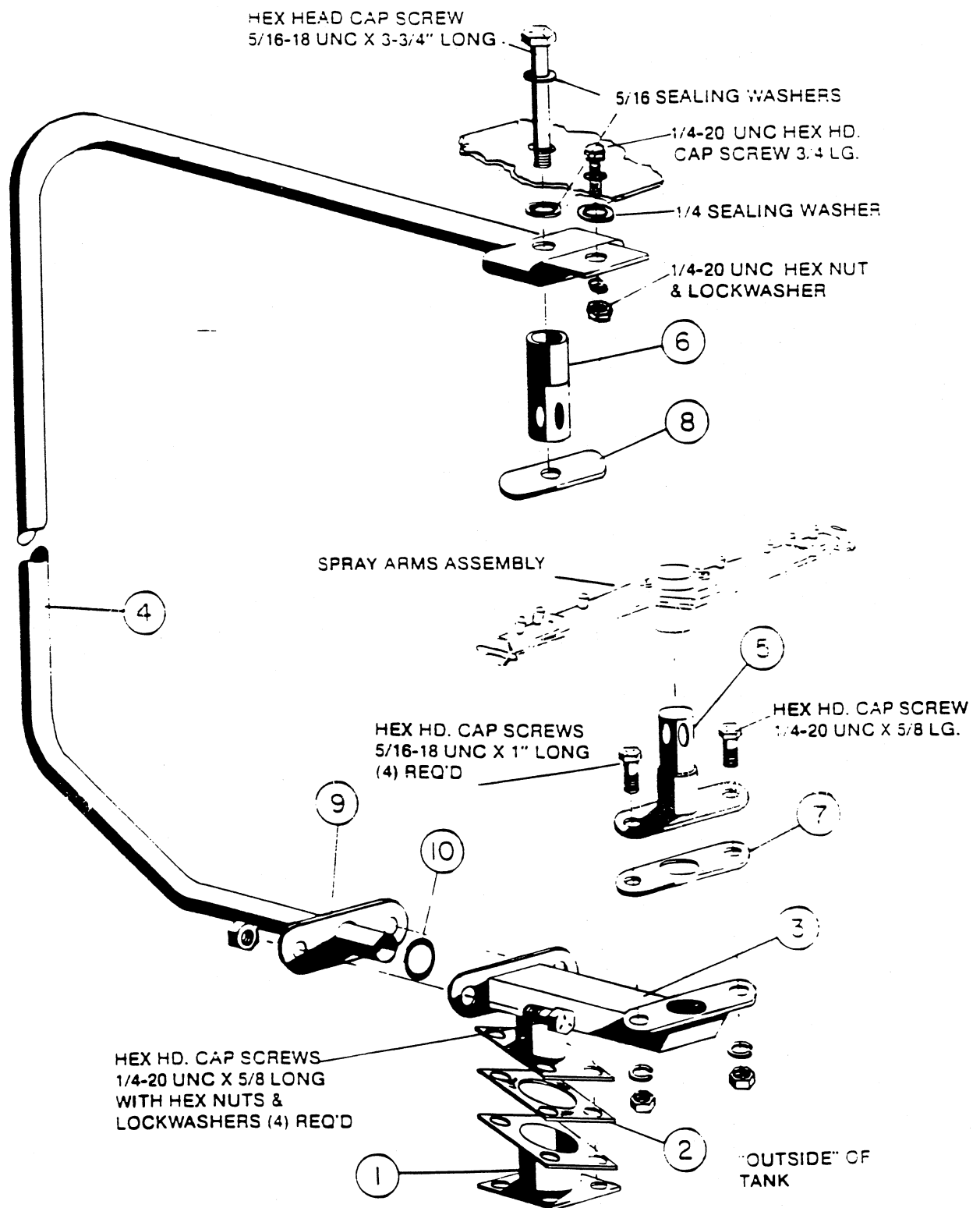
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SC 20-1 ELECTRICAL BOX ASSEMBLY

SC 20-1 ELECTRICAL BOX ASSEMBLY

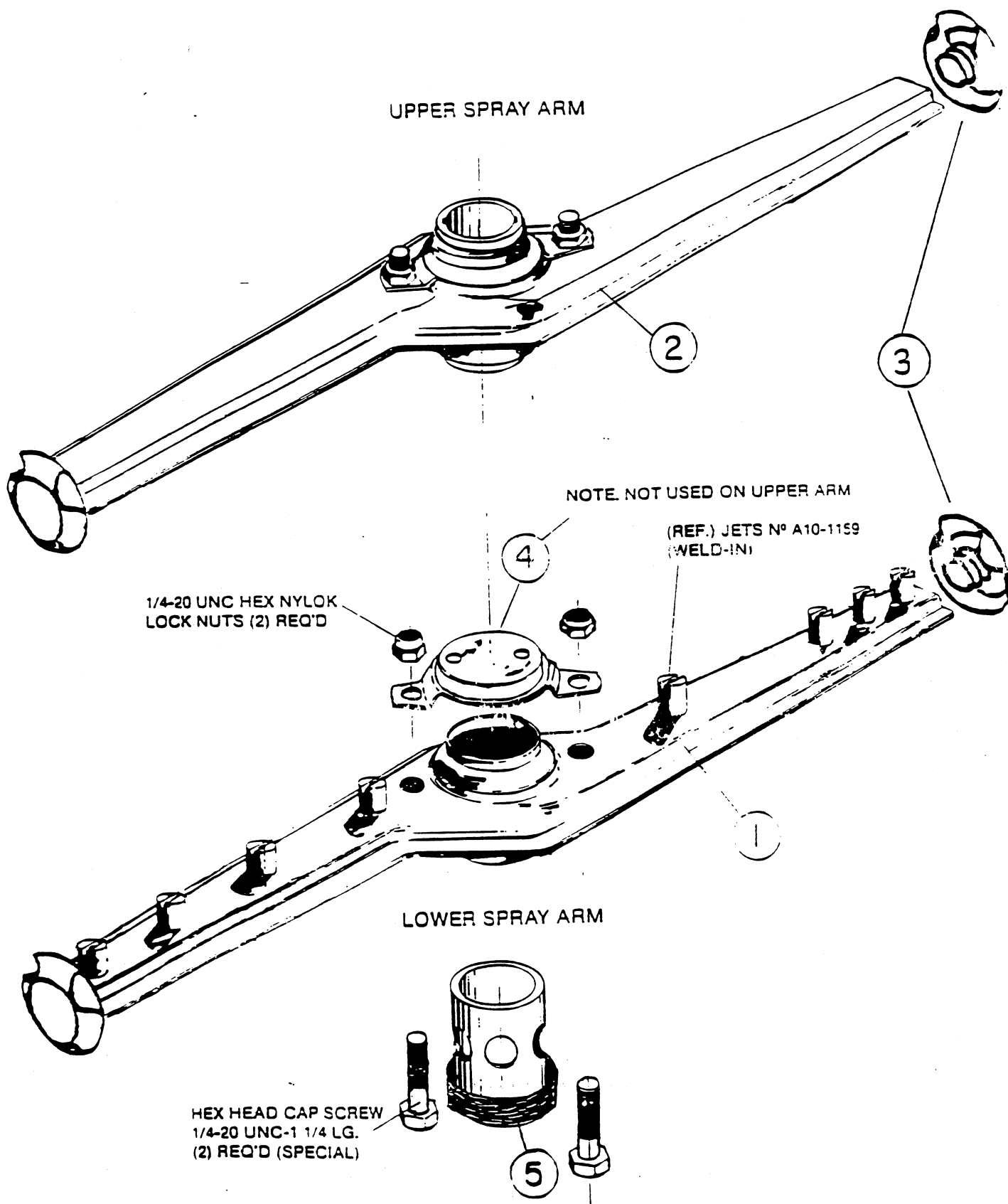
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SC 20-1 SPRAY MANIFOLD ASSEMBLY

SC 20-1 SPRAY MANIFOLD ASSEMBLY

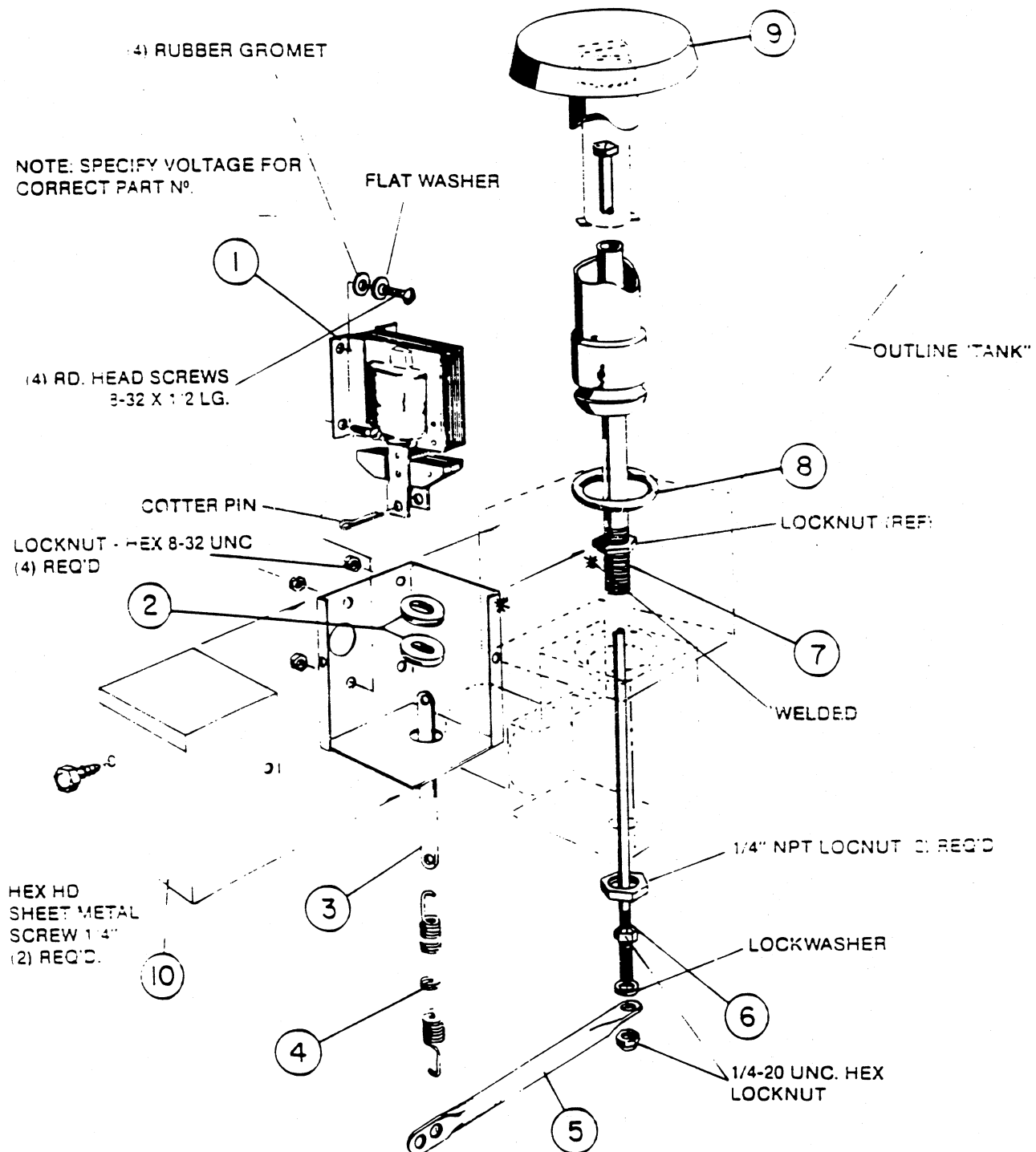
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SC 20-1 REVOLVING SPRAY ARM ASSEMBLY

SC 20-1 REVOLVING SPRAY ARM ASSEMBLY

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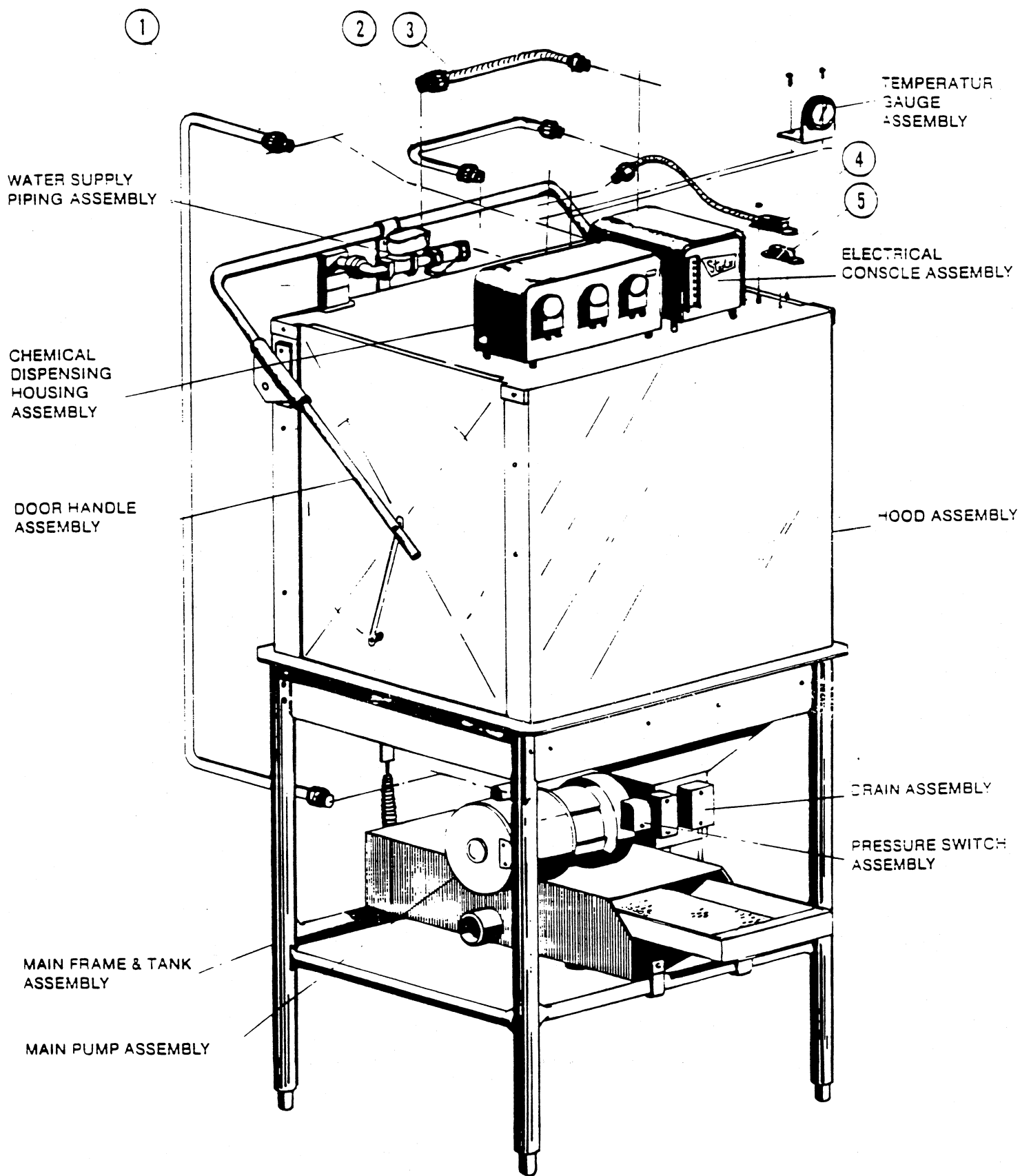
SC 20-1 DRAIN ASSEMBLY

SC 20-1 DRAIN ASSEMBLY

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SC-25-1

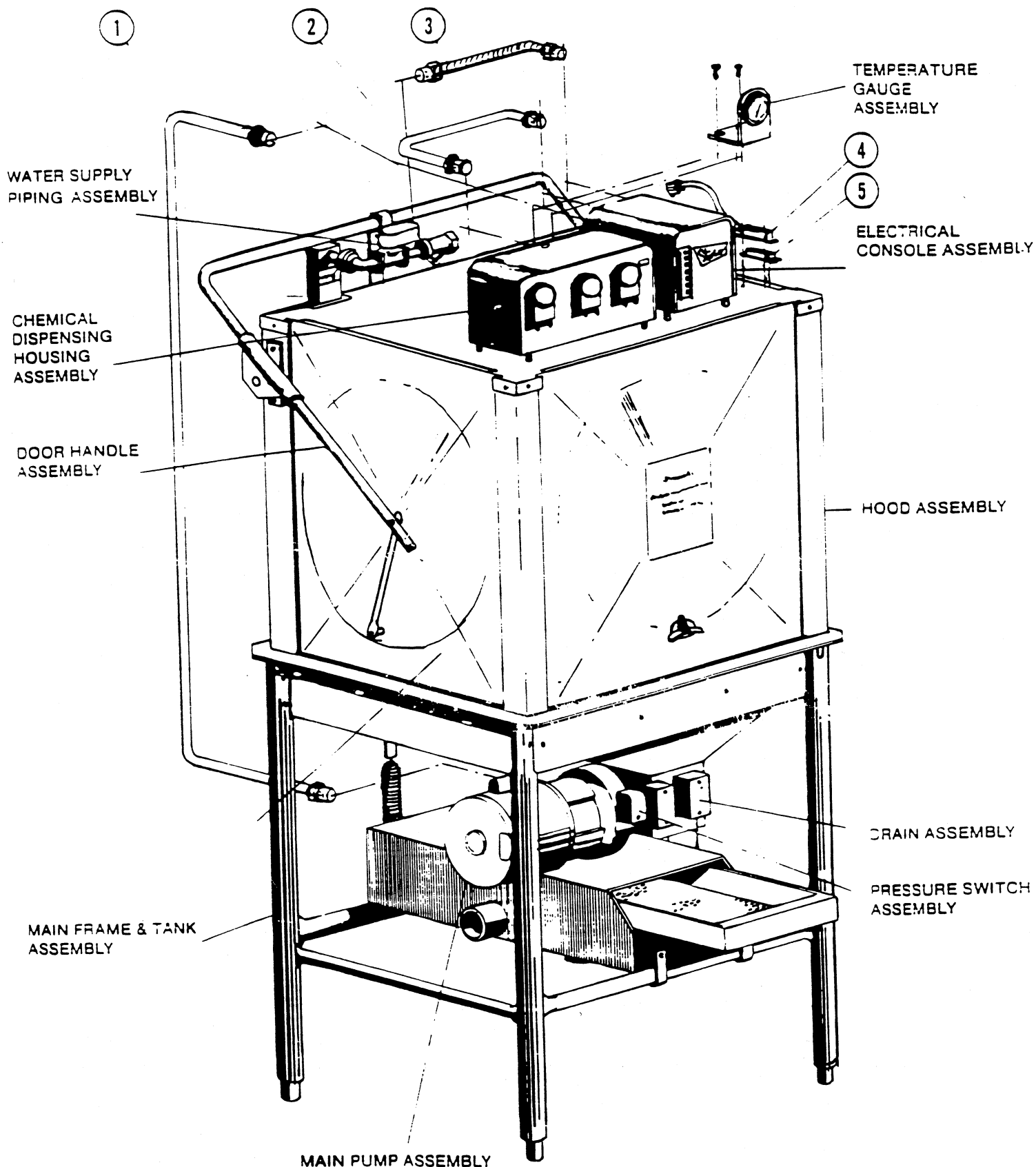
SECTION



SC 25-1 GENERAL ASSEMBLY
(2-Door Straight Thru Operation)

SC 25-1 GENERAL ASSEMBLY

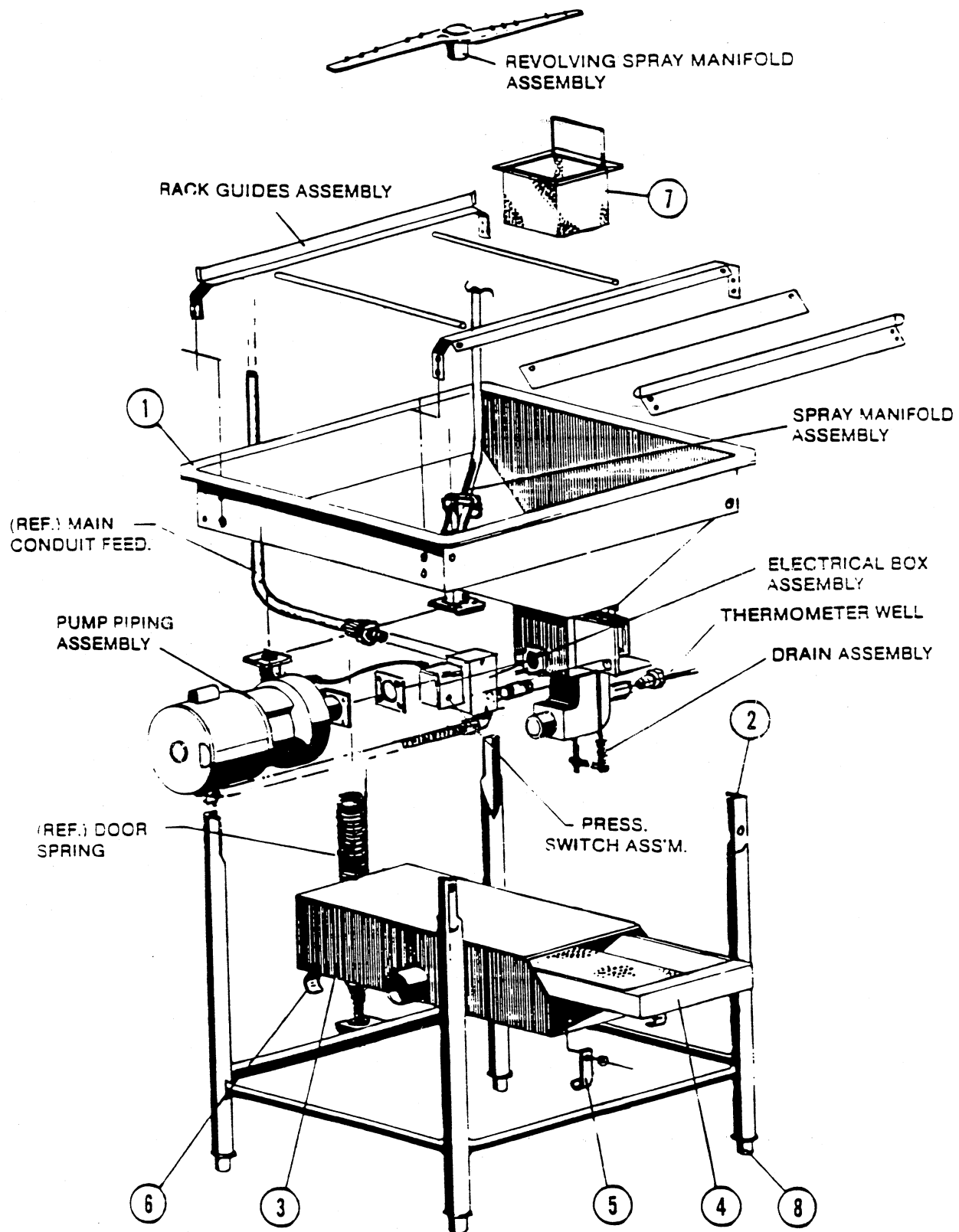
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SC 25-3 GENERAL ASSEMBLY
((3) Door - Corner Operation)

SC 25-3 GENERAL ASSEMBLY

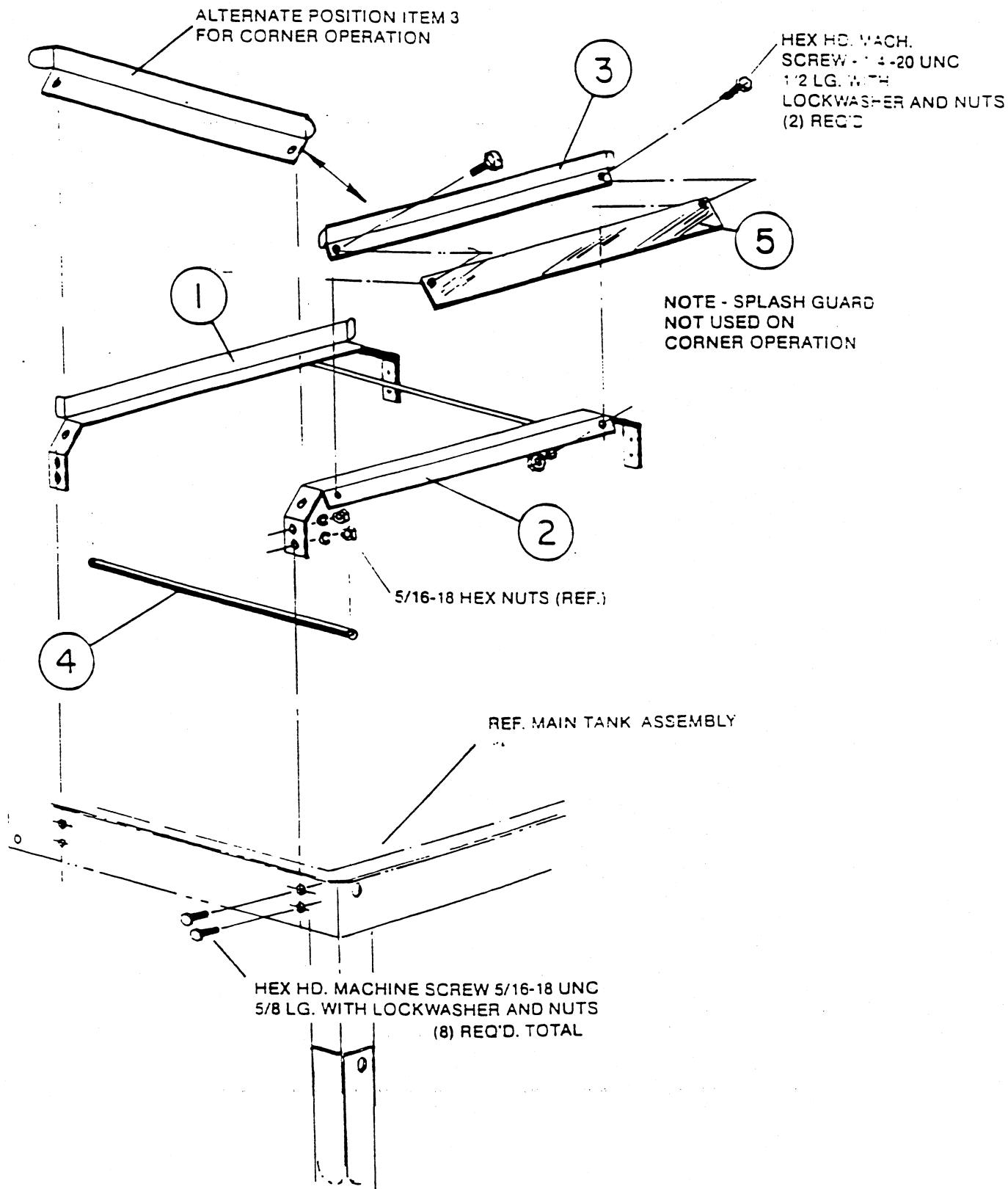
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SC 25-1 & 3 FRAME AND TANK ASSEMBLY

SC 25-1 & 3 FRAME AND TANK ASSEMBLY

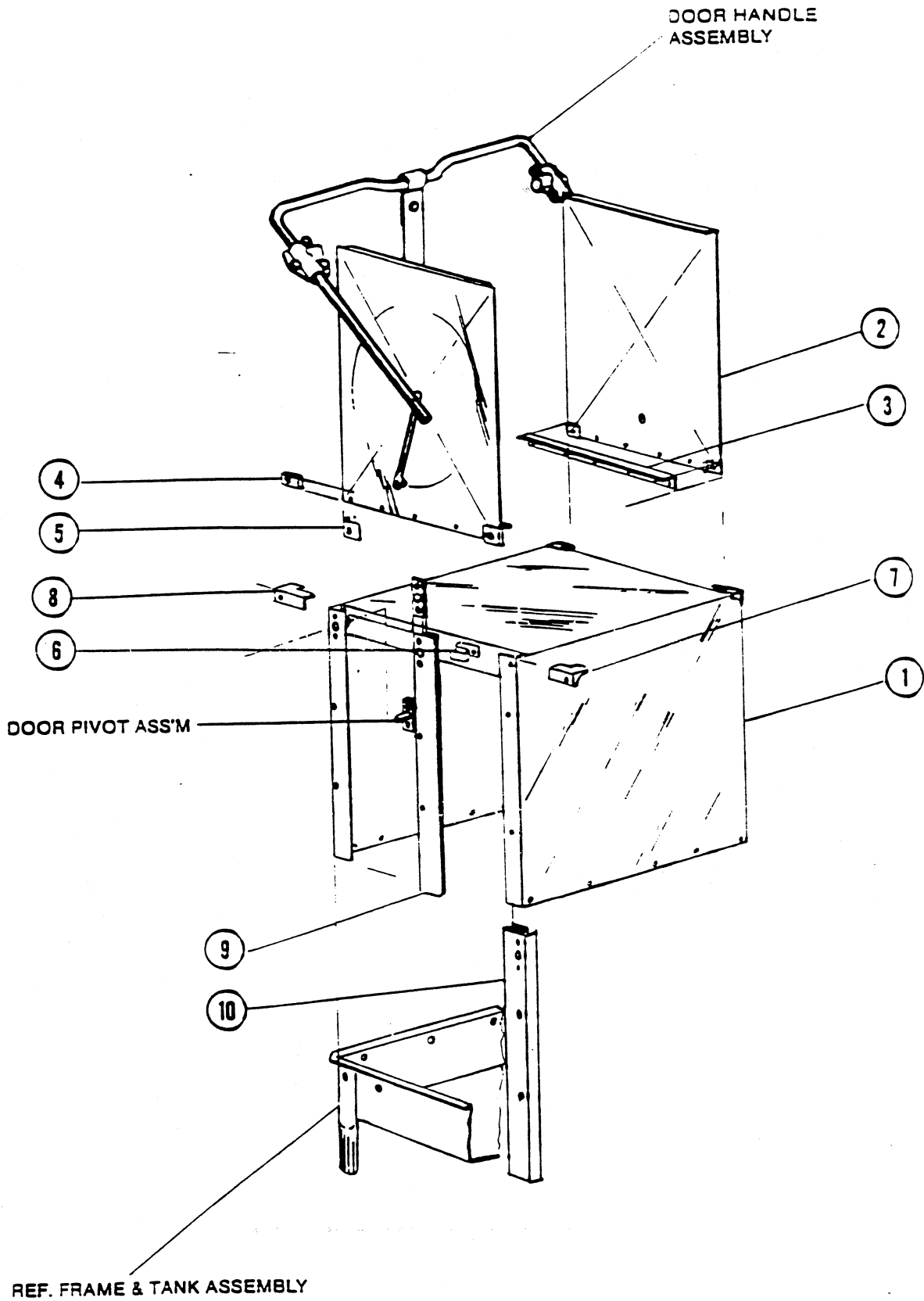
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SC 25-1 & 3 RACK GUIDES, ASSEMBLY

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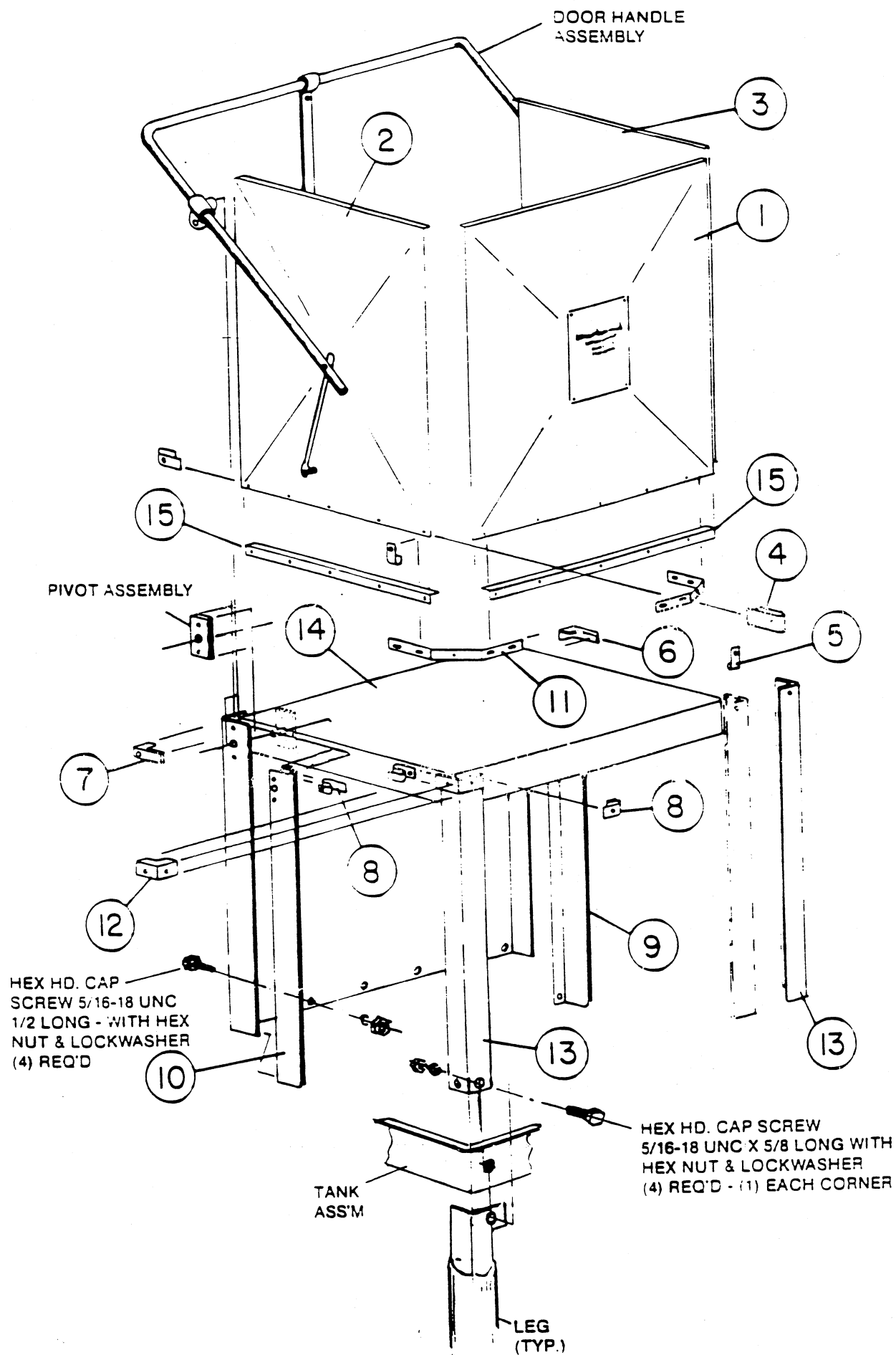
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SC 25-1 HOOD ASSEMBLY

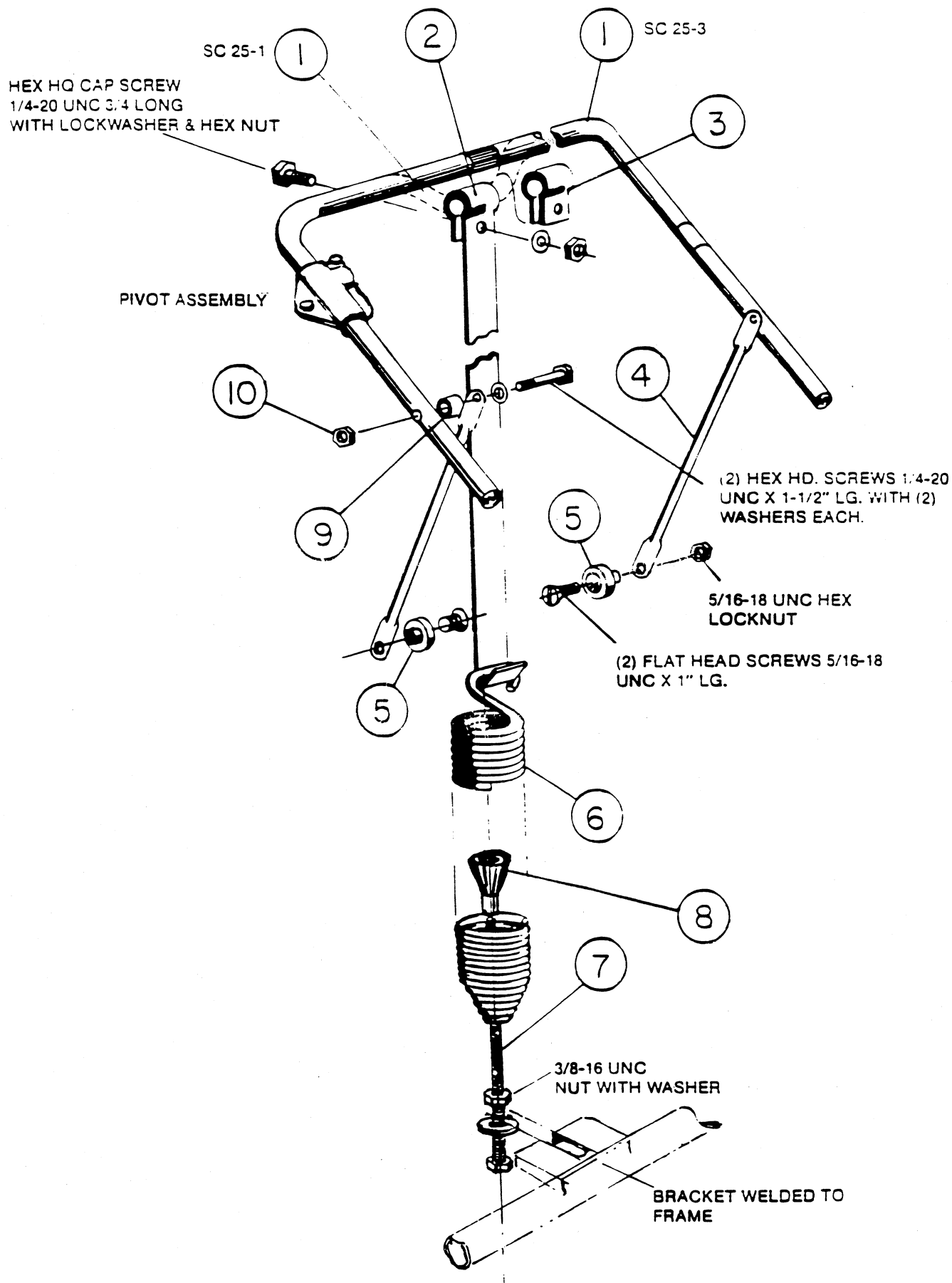
SC 25-1 HOOD ASSEMBLY

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SC 25-3 HOOD ASSEMBLY

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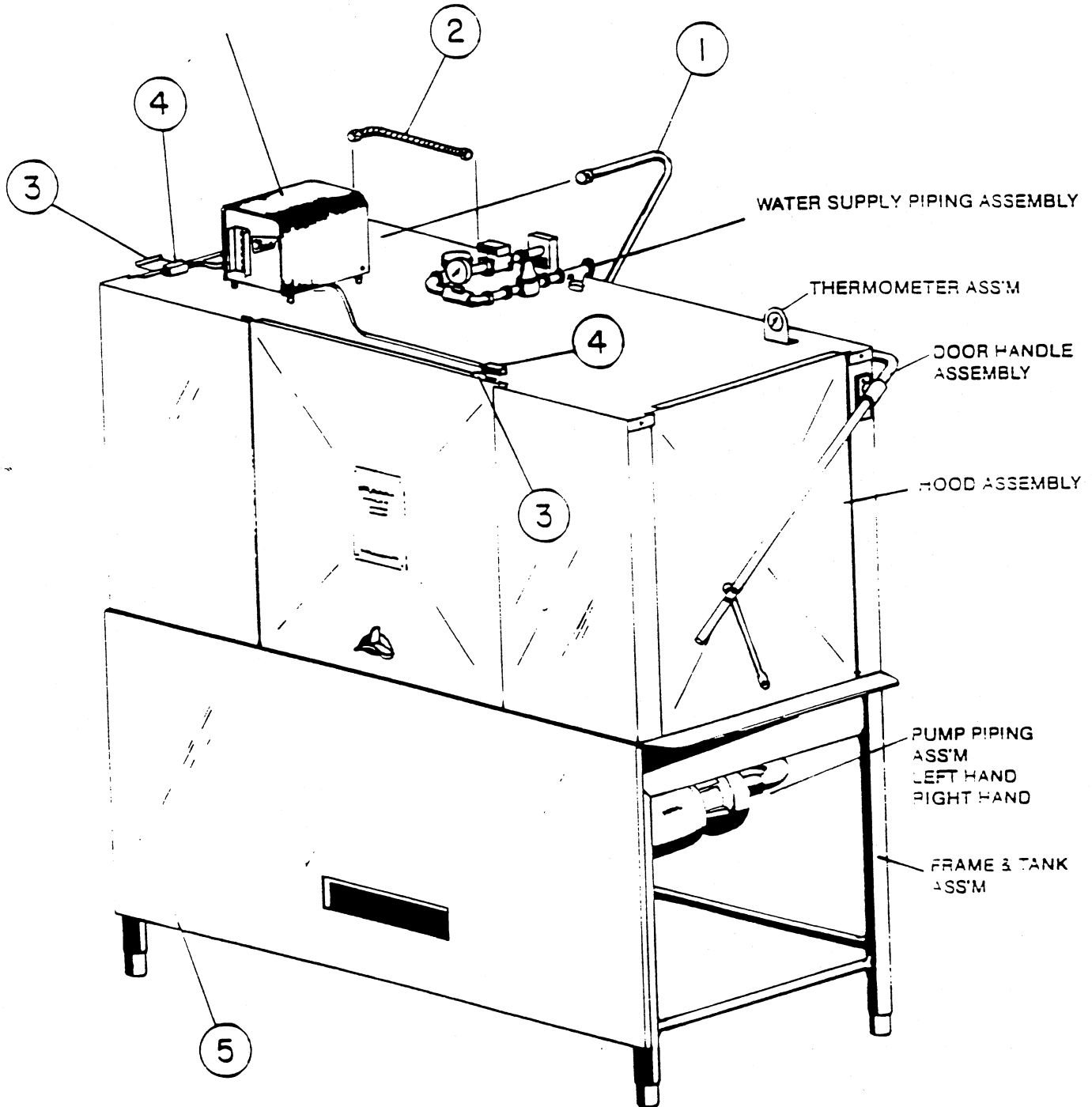
SC 25-1 & 3 DOOR HANDLE ASSEMBLY

SC 25-1 & 3 DOOR HANDLE ASSEMBLY

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**THE FOLLOWING PARTS
_ ARE FOR SC 20-2
ONLY**

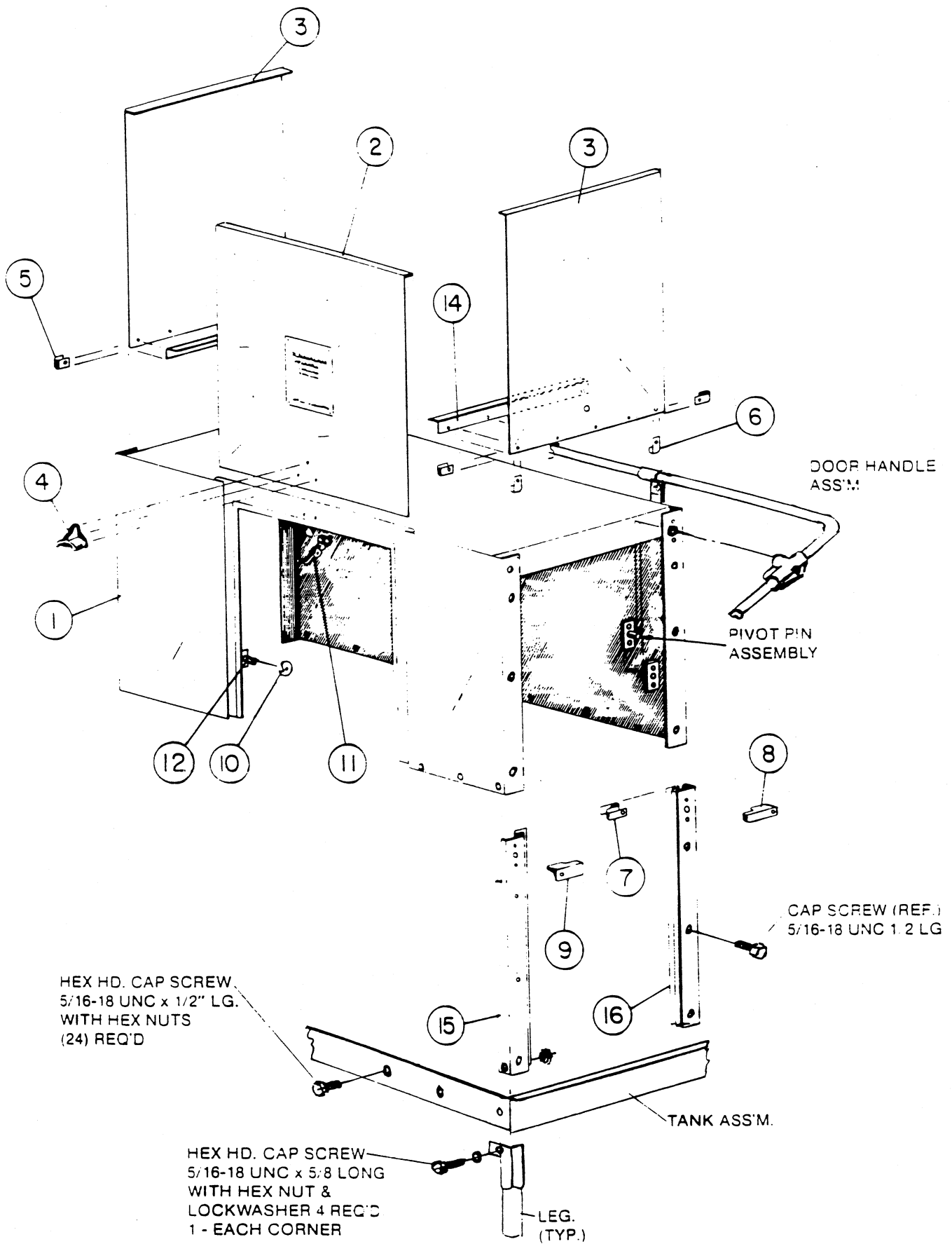
CONTROL CONSOLE ASSEMBLY



SC 20-2 GENERAL ASSEMBLY

SC 20-2 GENERAL ASSEMBLY

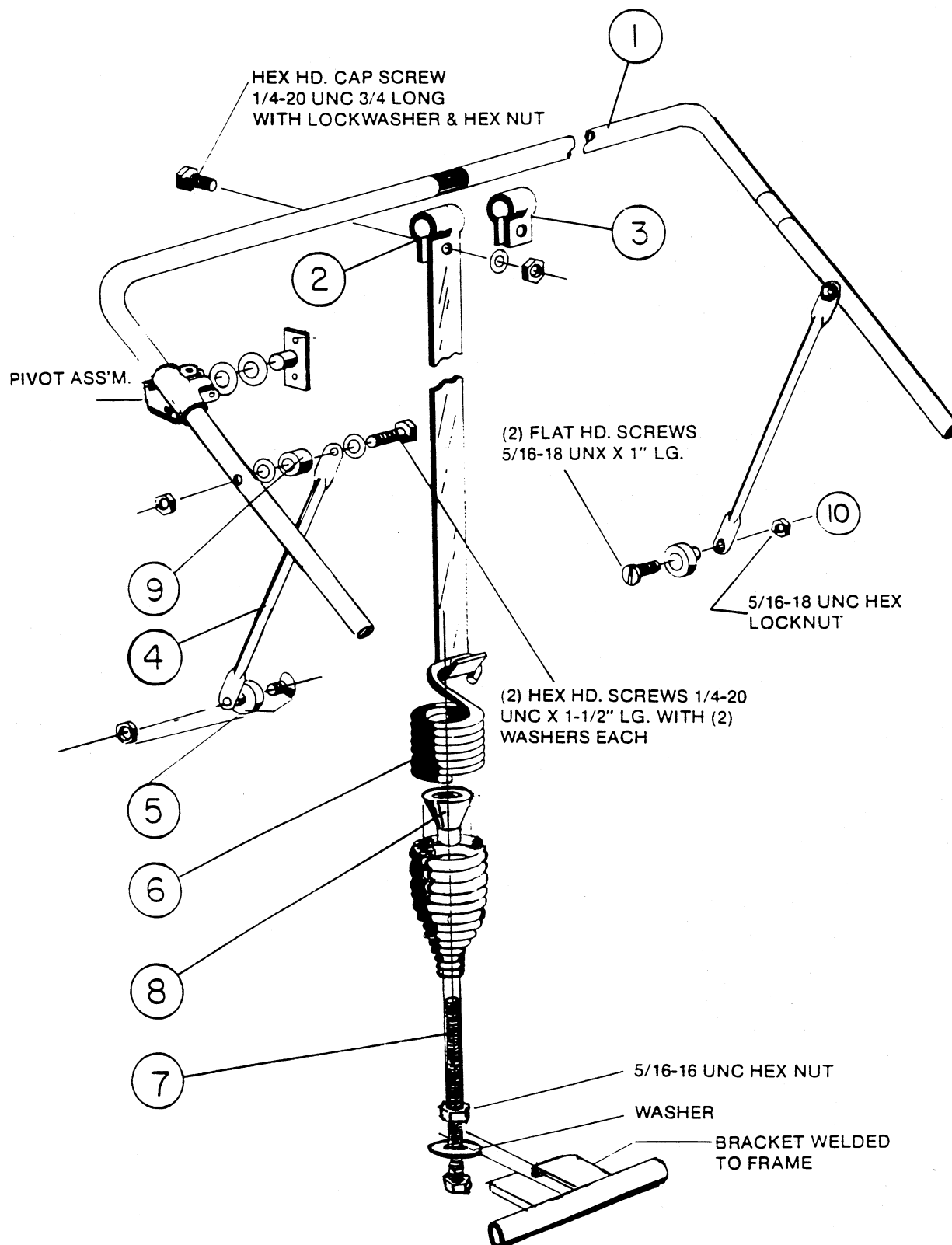
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SC 20-2 HOOD ASSEMBLY

SC 20-2 HOOD ASSEMBLY

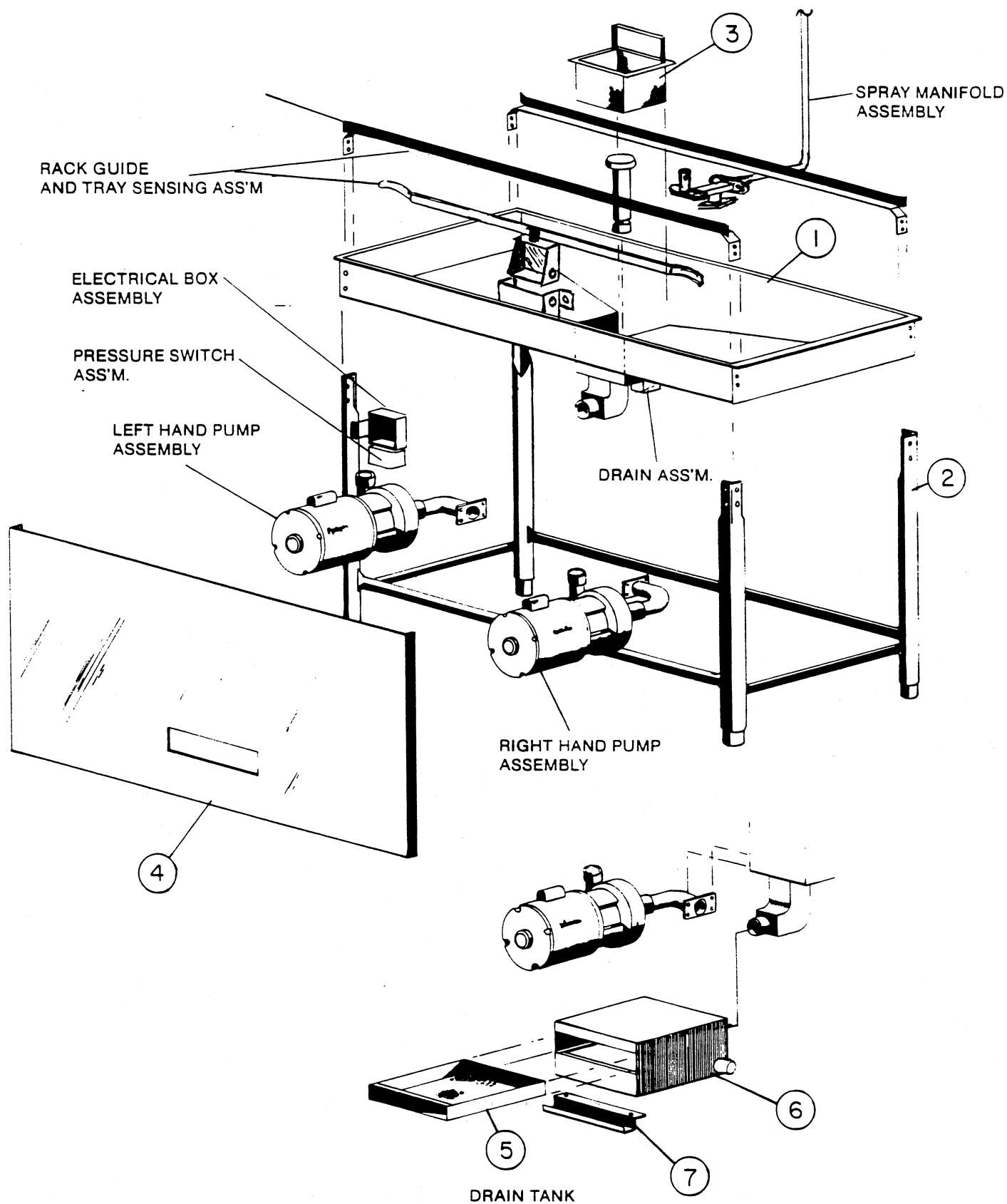
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SC 20-2 DOOR HANDLE ASSEMBLY

SC 20-2 DOOR HANDLE ASSEMBLY

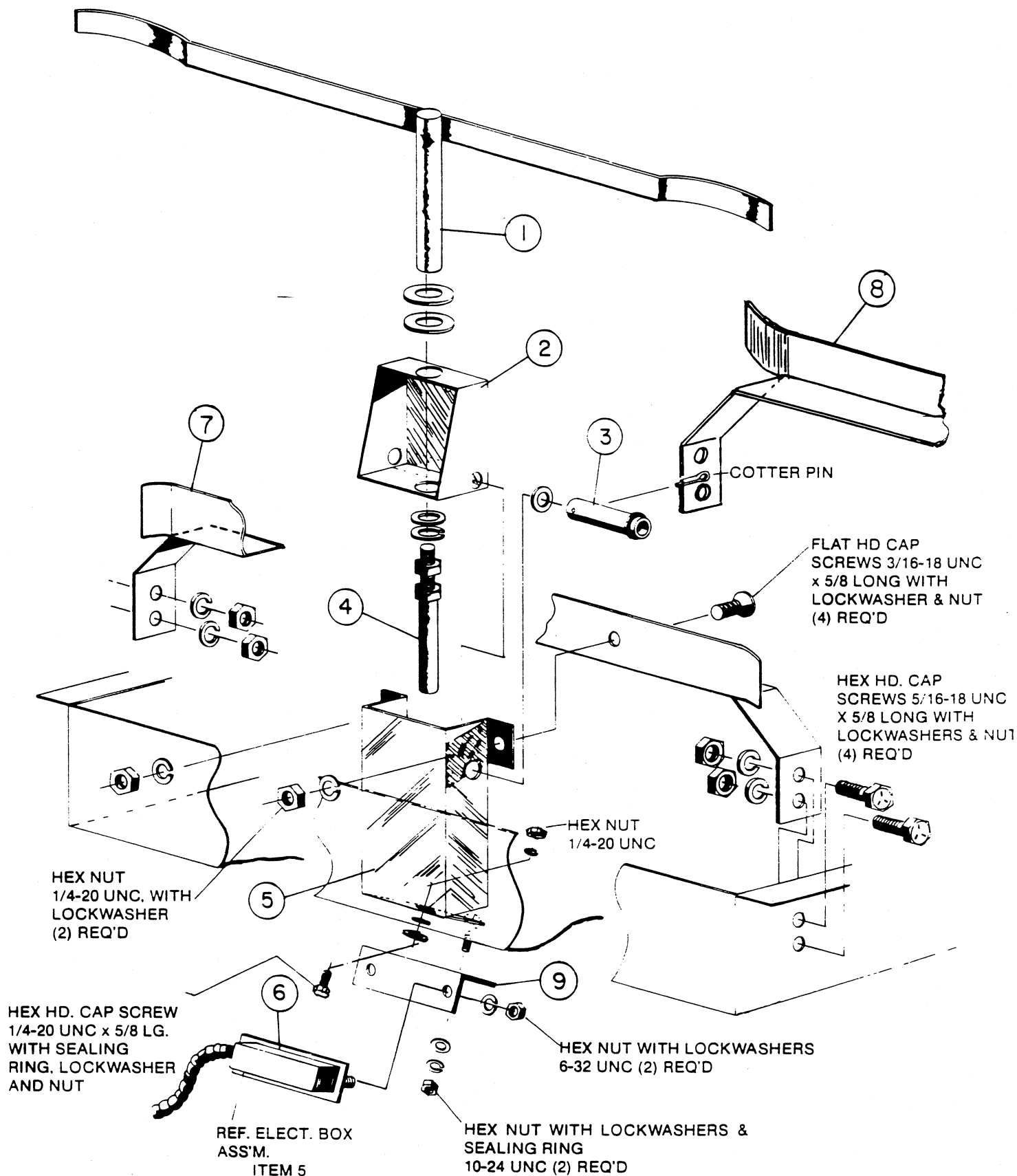
[illegible]



SC 20-2 FRAME & TANK ASSEMBLY

SC 20 - 2 FRAME & TANK ASSEMBLY

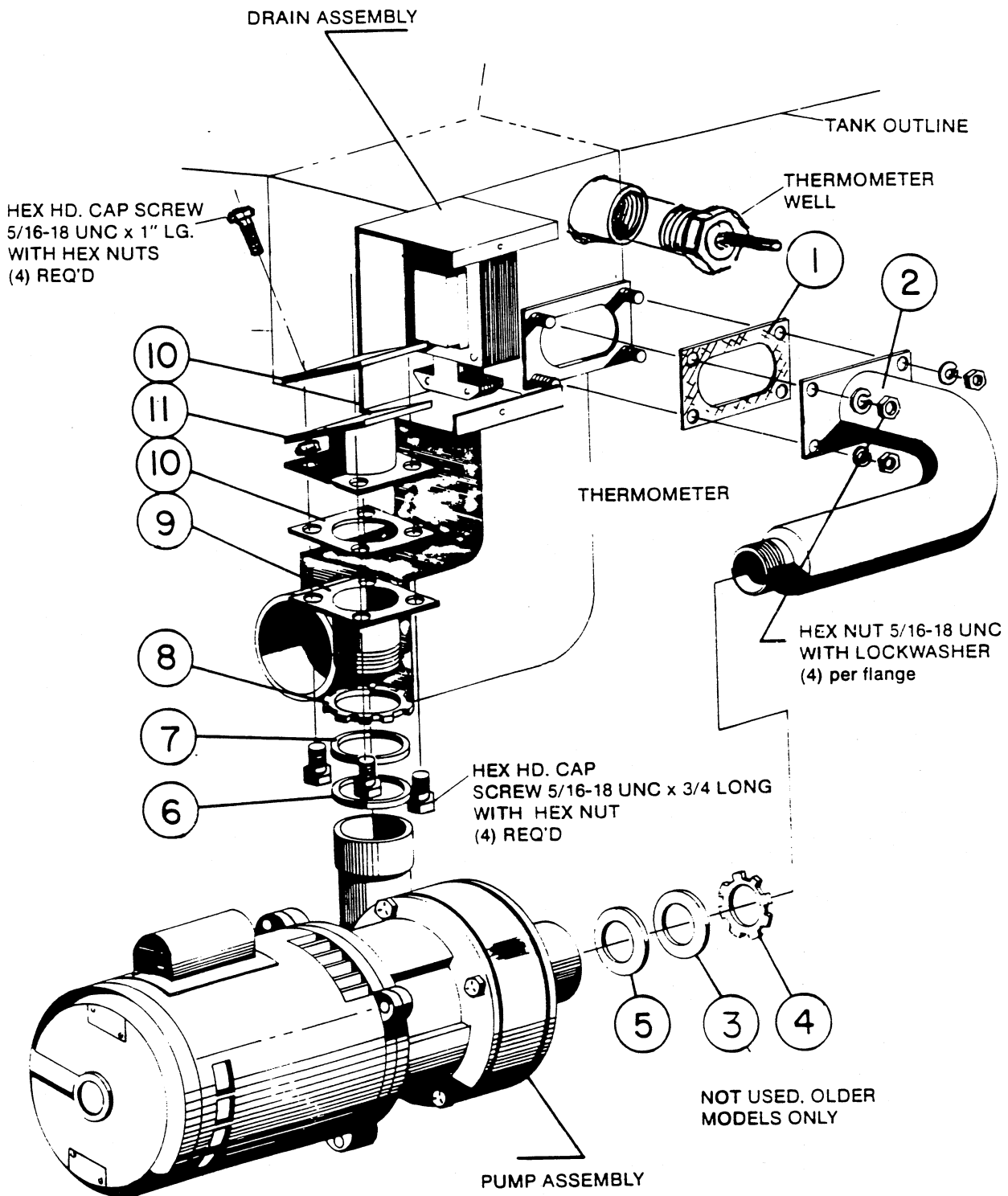
[illegible]



SC 20-2 RACK, GUIDES AND SENSING SWITCH ASSEMBLY

SC 20-2 RACK, GUIDES AND SENSING SWITCH ASSEMBLY

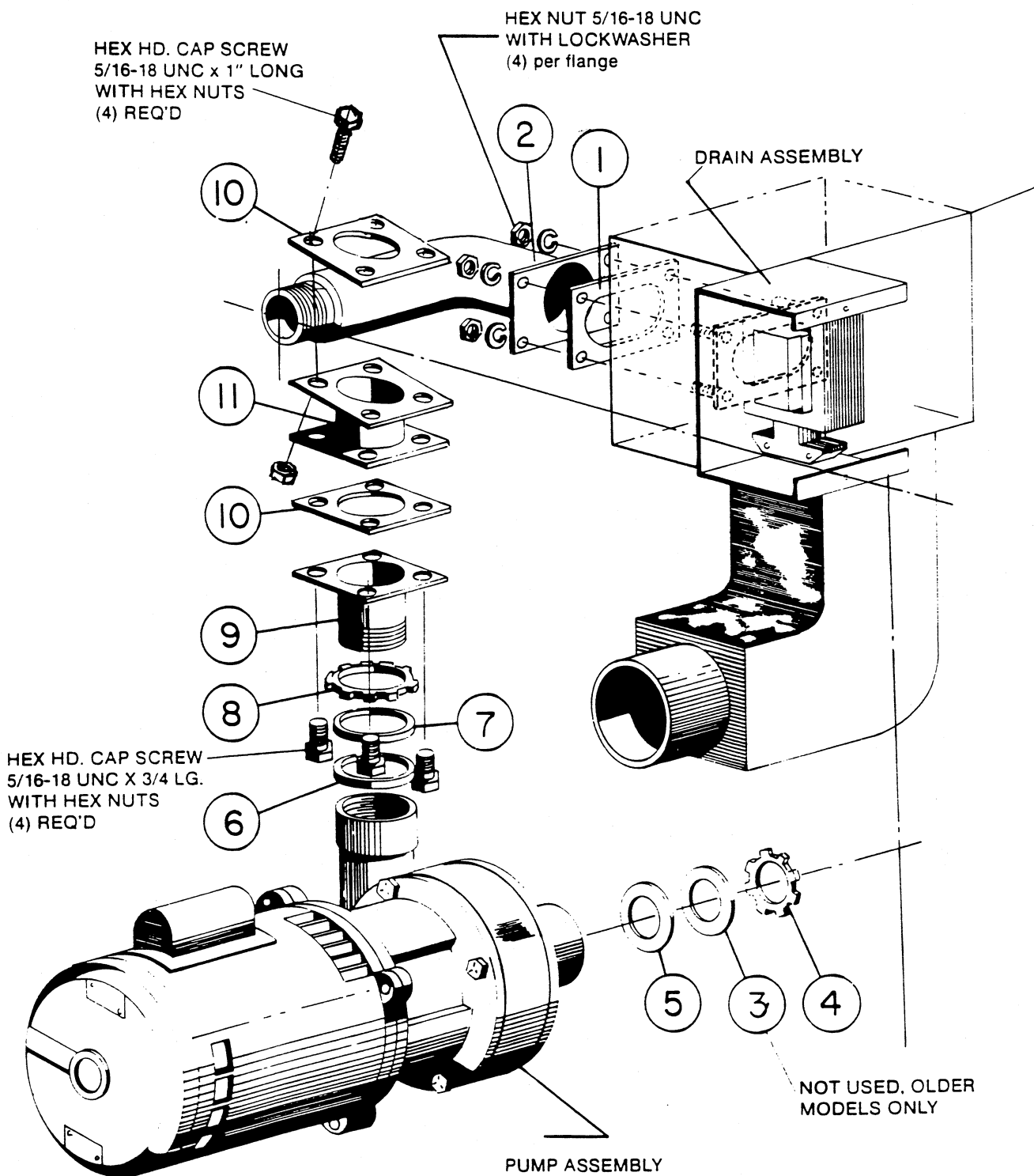
[illegible]



SC 20-2 RIGHT HAND PUMP PIPING
ASSEMBLY

SC 20-2 RIGHT HAND PUMP PIPING ASSEMBLY

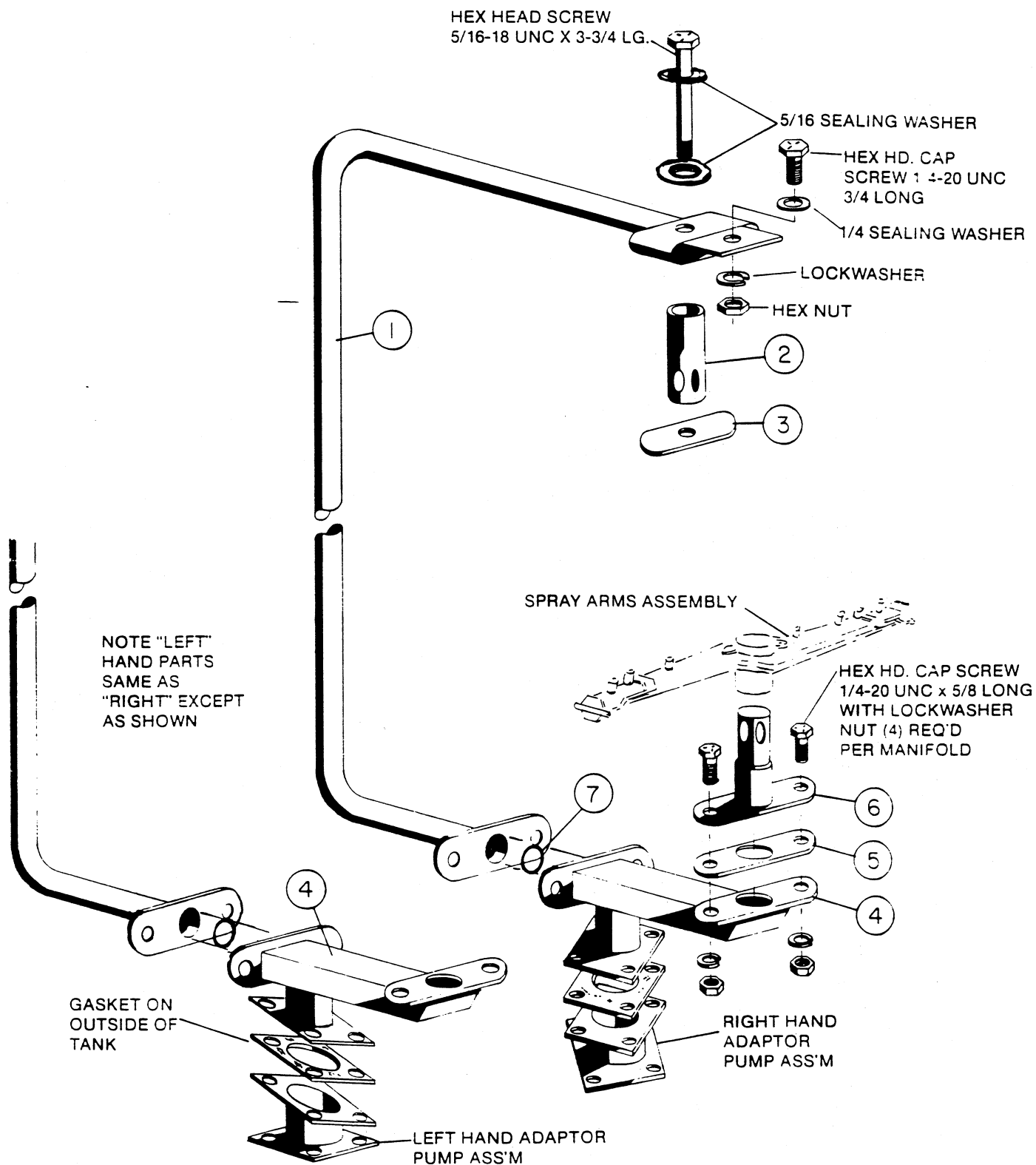
[illegible]



SC 20-2 LEFT HAND PUMP PIPING
ASSEMBLY

SC 20-2 LEFT HAND PUMP PIPING ASSEMBLY

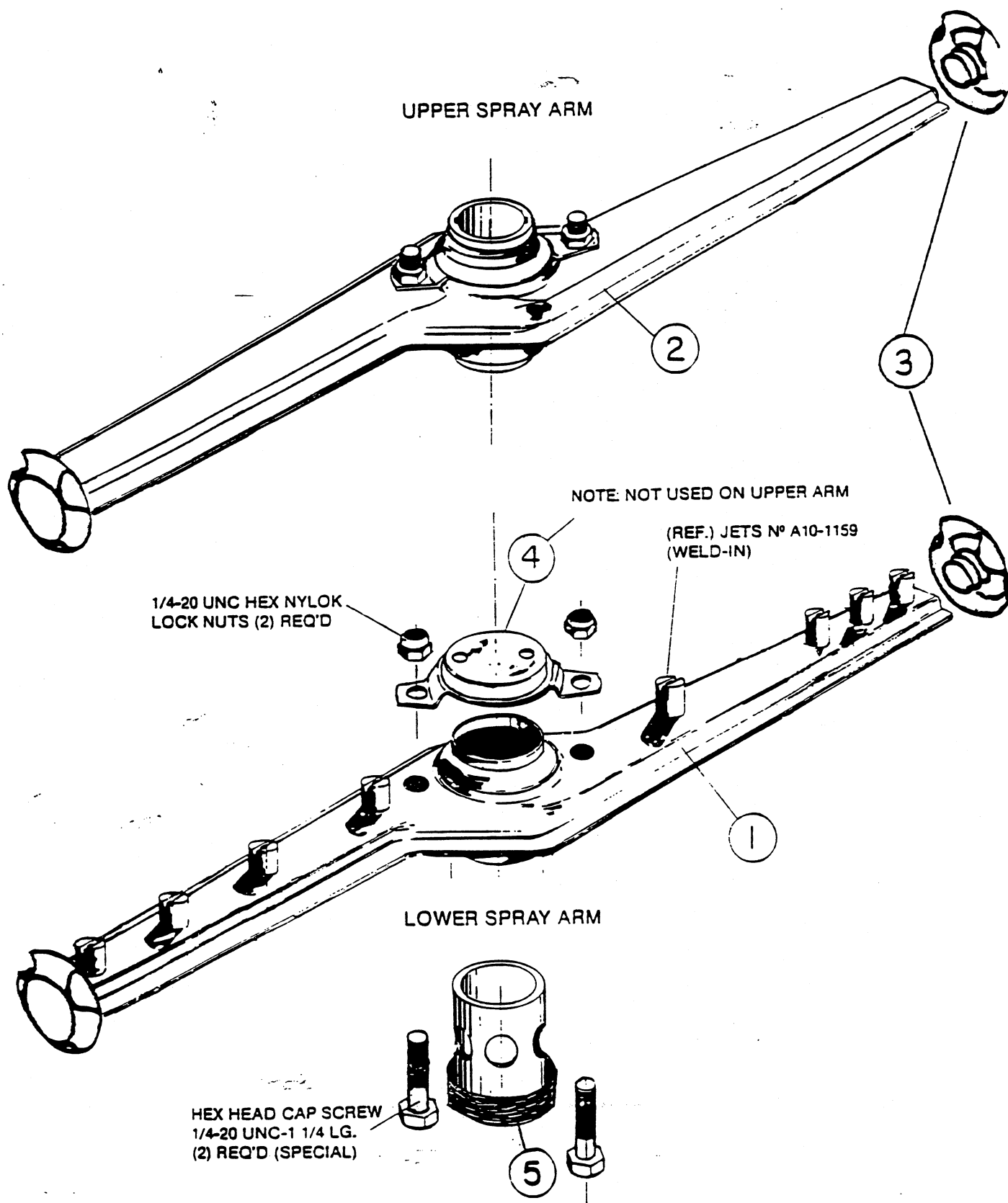
[illegible]



SC 20-2 SPRAY MANIFOLD ASSEMBLIES
LEFT & RIGHT HAND

SC 20-2 SPRAY MANIFOLD ASSEMBLIES
LEFT & RIGHT HAND

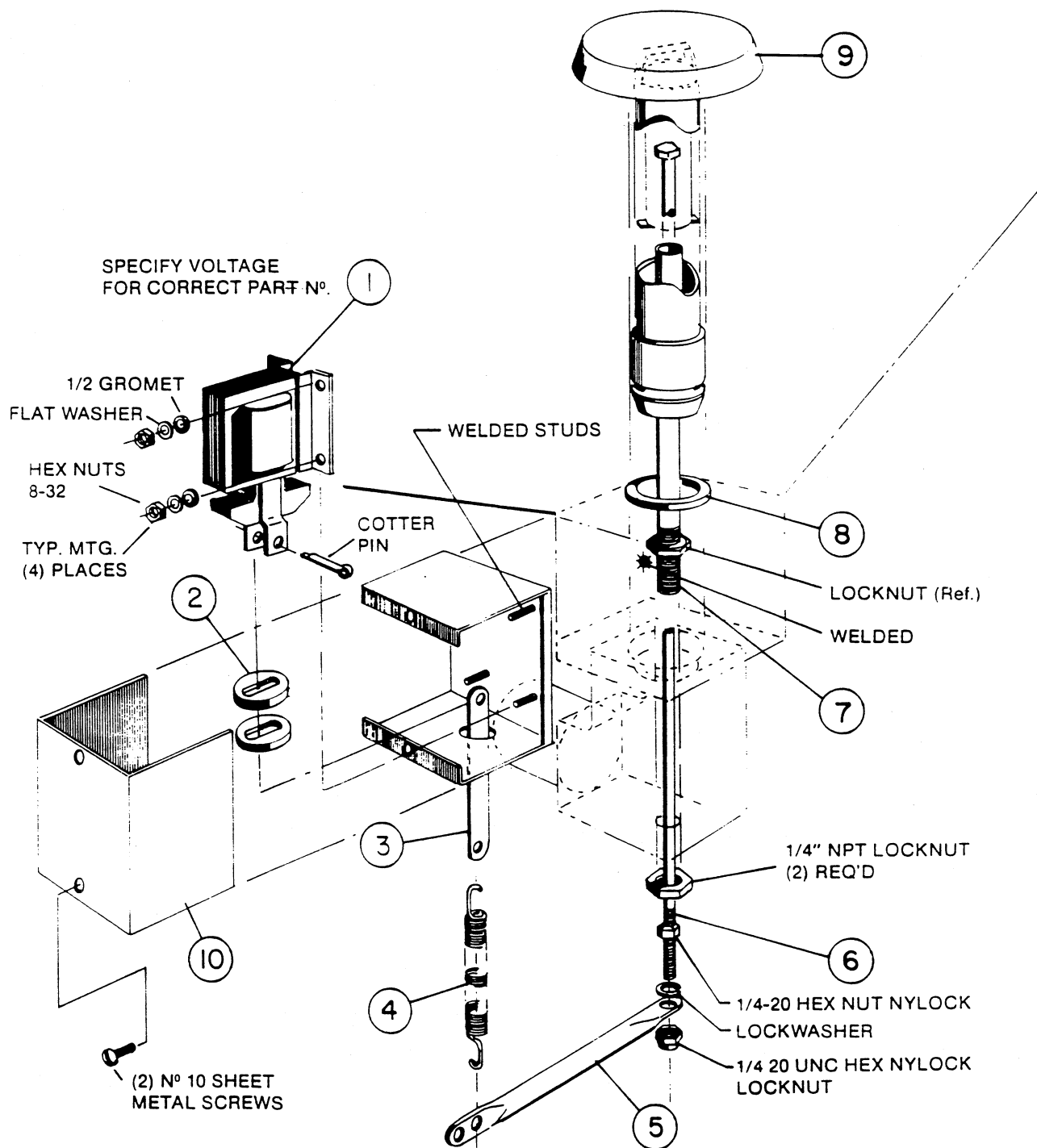
[illegible]



SC 20-1 REVOLVING SPRAY ARM ASSEMBLY

REVOLVING SPRAY ARM ASSEMBLY

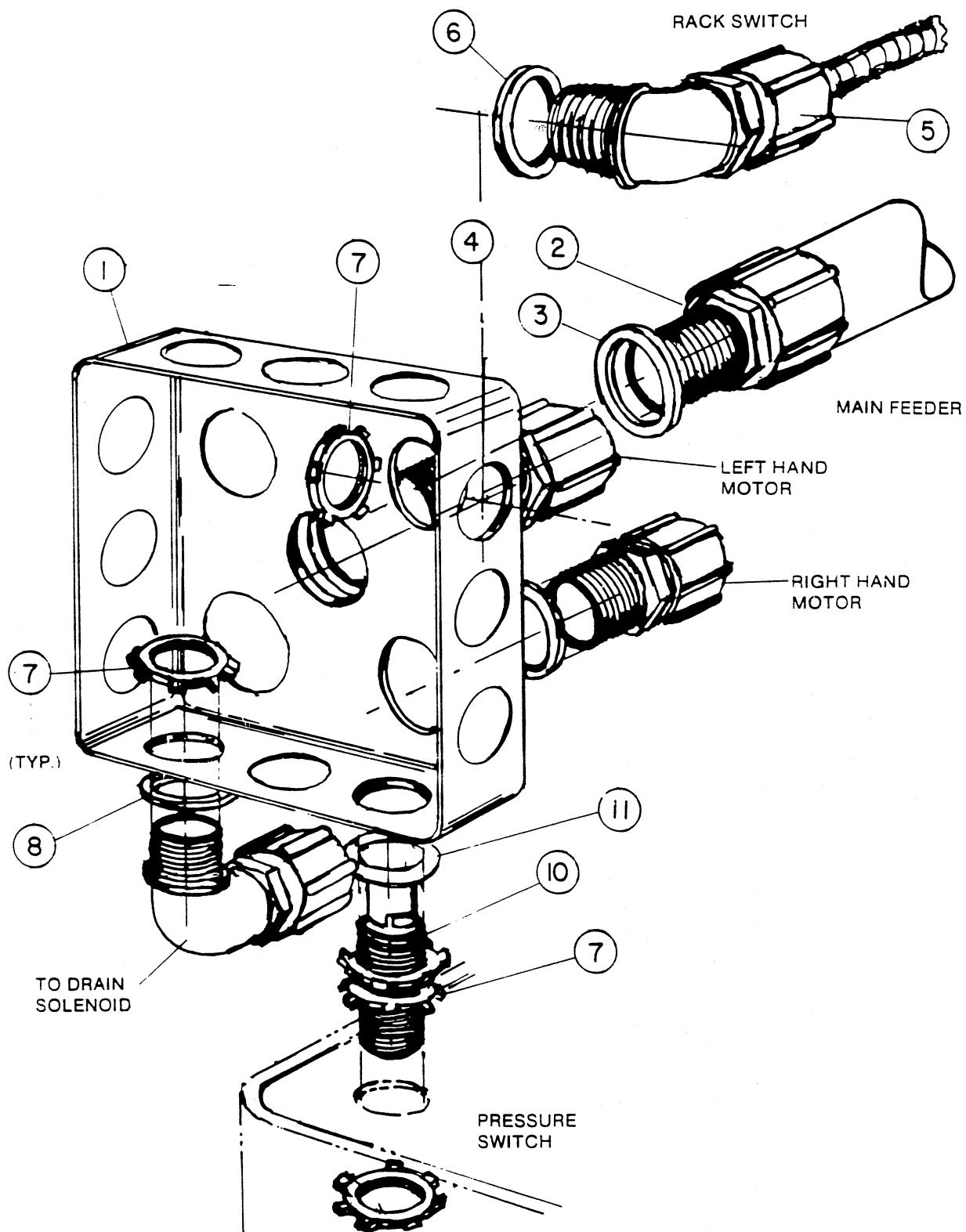
[illegible]



SC 20-2 DRAIN ASSEMBLY

SC 20-2 DRAIN ASSEMBLY

[illegible]

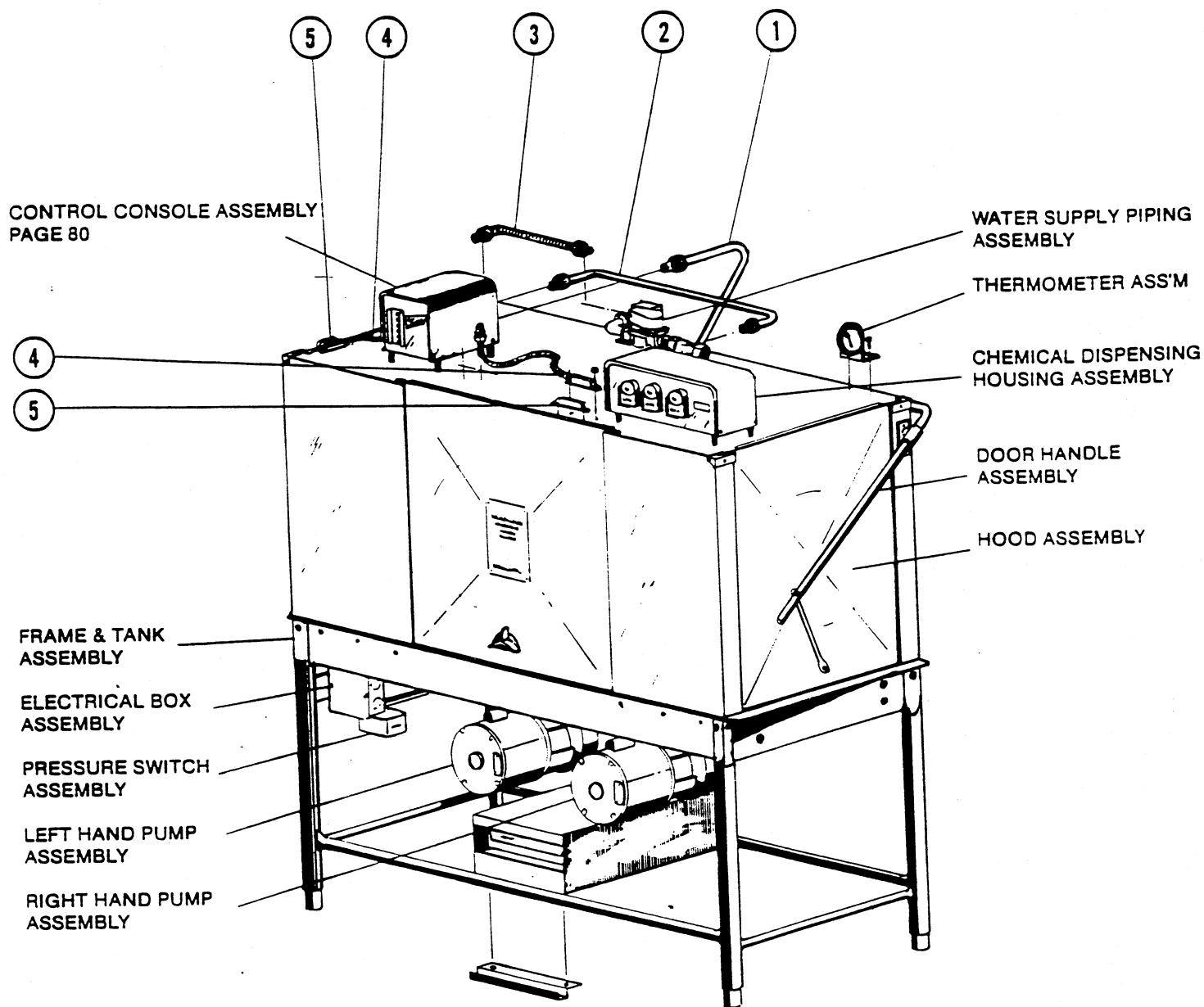


SC 20-2 ELECTRICAL BOX
ASSEMBLY

SC 20-2 ELECTRICAL BOX ASSEMBLY

[illegible]

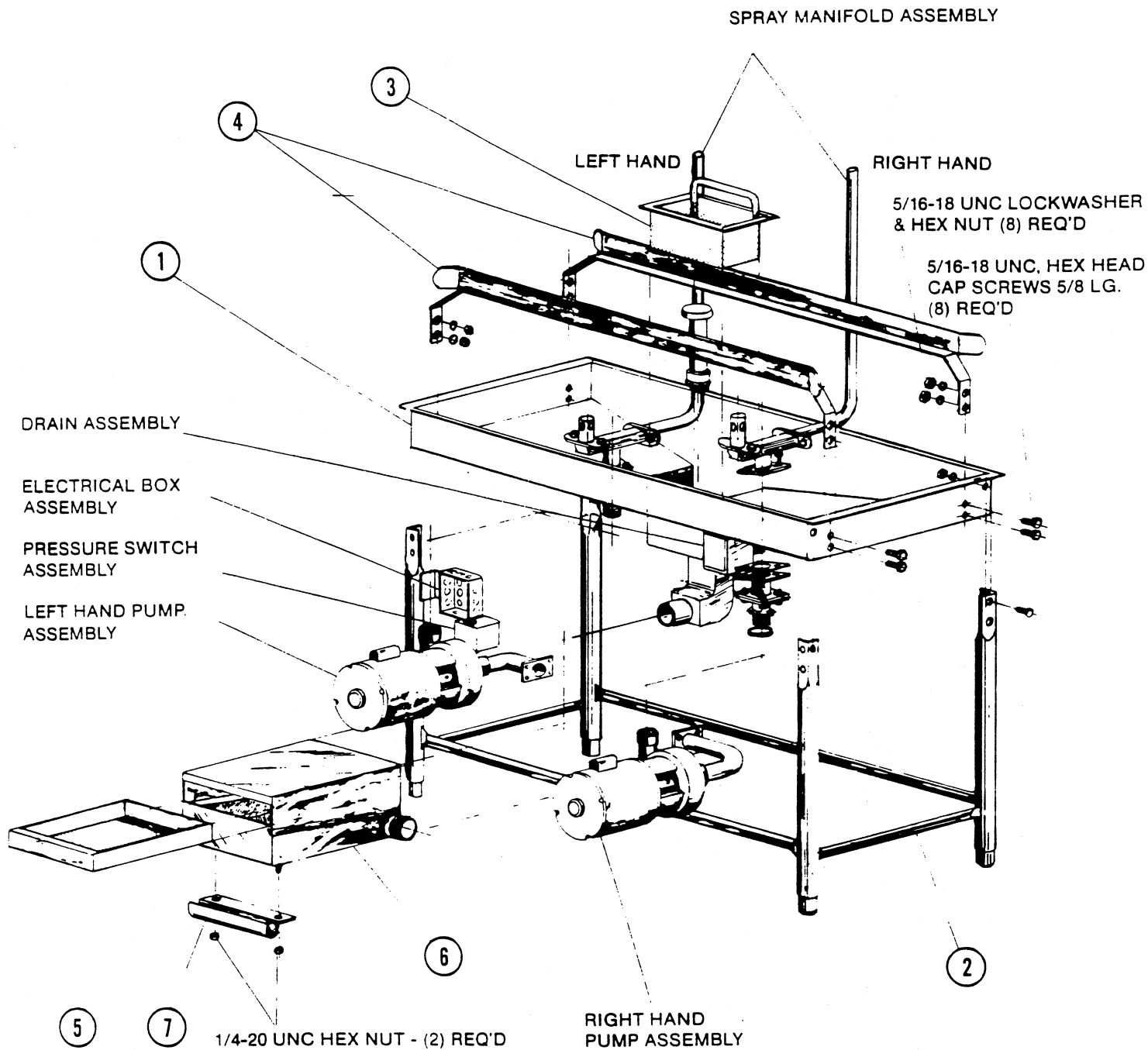
**THE FOLLOWING PARTS
ARE FOR SC 25-2
ONLY**



SC 25-2 GENERAL ASSEMBLY

SC 25-2 GENERAL ASSEMBLY

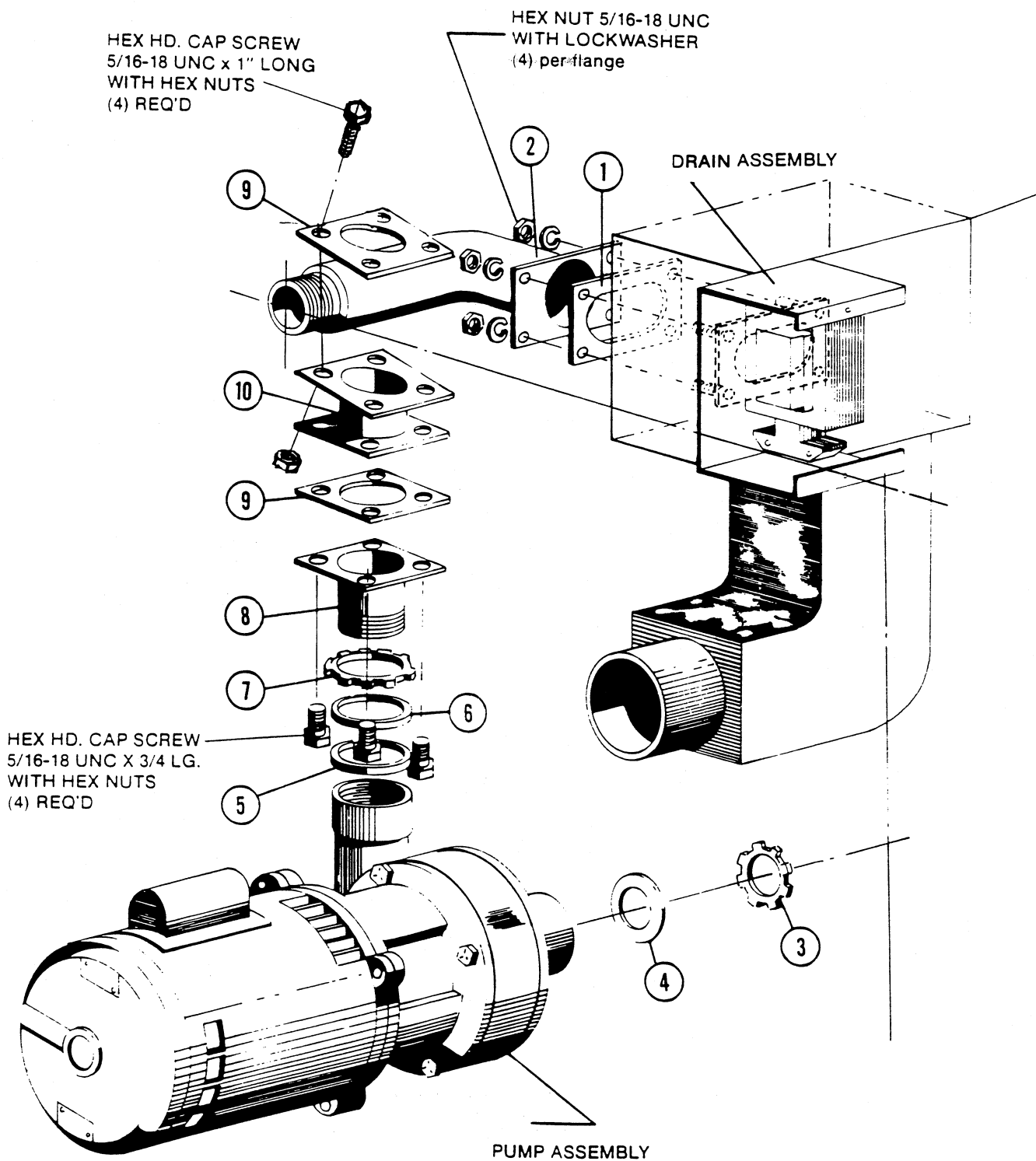
[illegible]



SC 25-2 FRAME & TANK ASSEMBLY

SC 25-2 FRAME & TANK ASSEMBLY

[illegible]



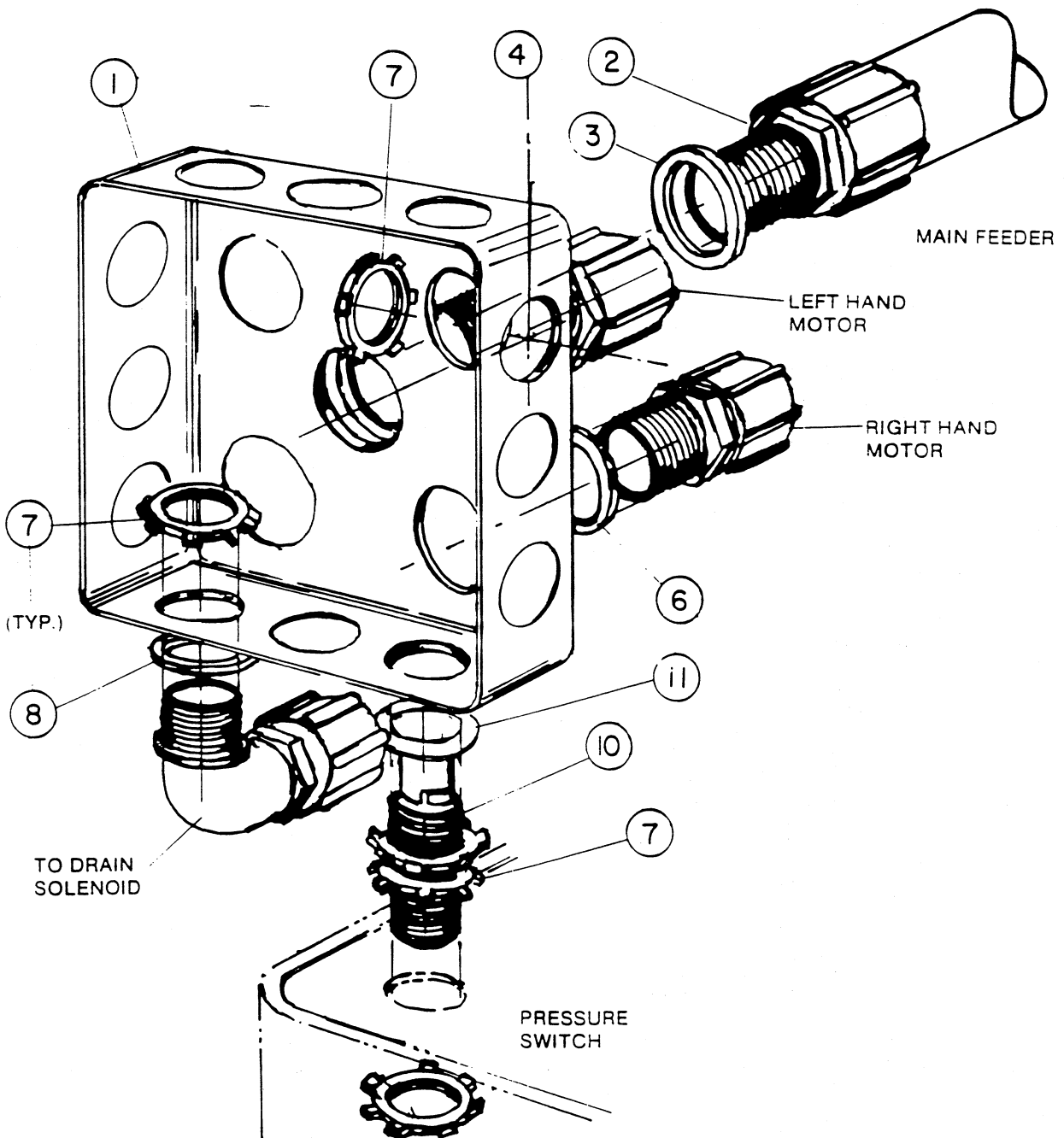
SC 25-2 LEFT HAND PUMP PIPING ASSEMBLY

SC 25-2 LEFT HAND PUMP PIPING ASSEMBLY

[illegible]

SC 25-2 RIGHT HAND PUMP PIPING ASSEMBLY

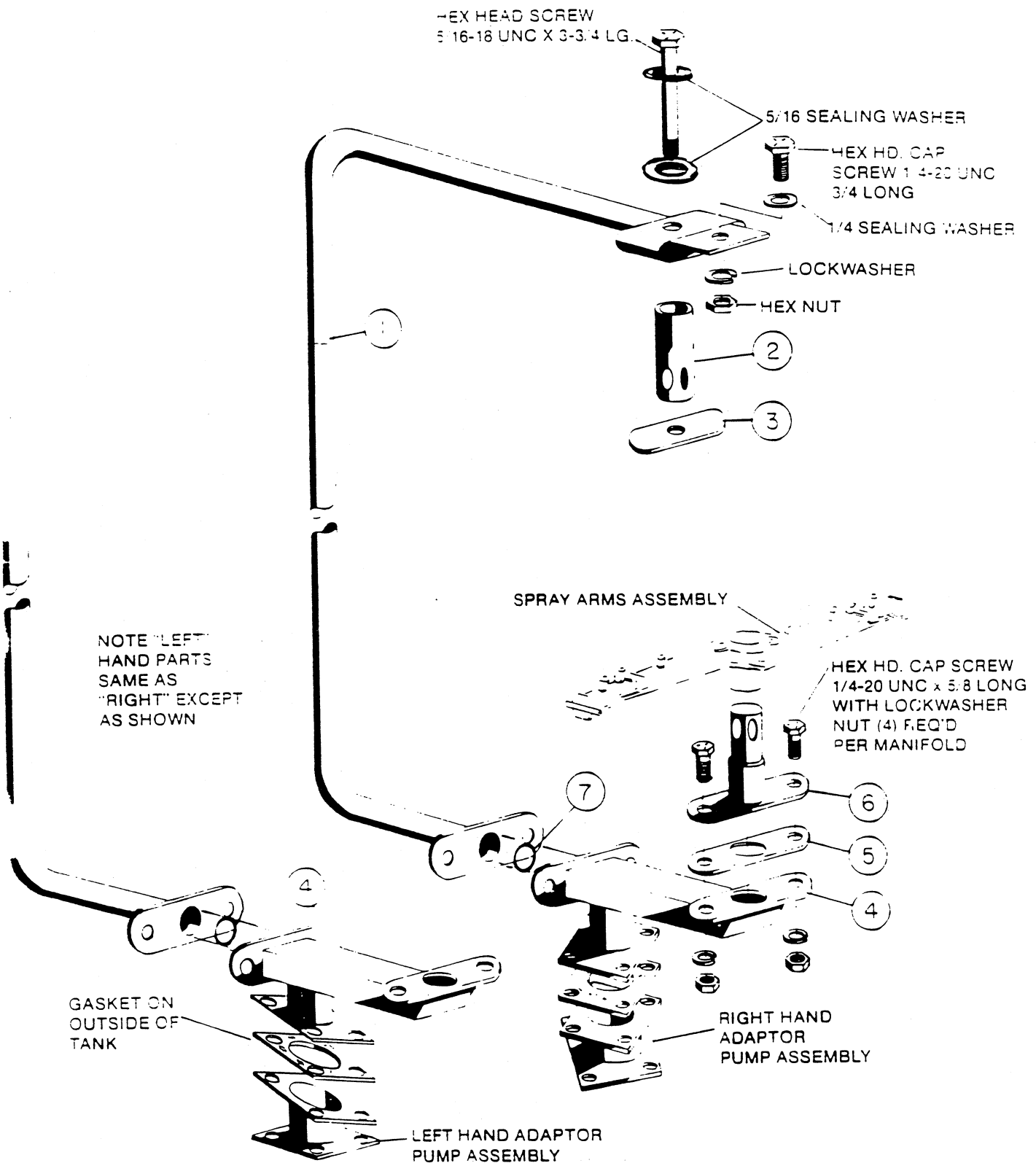
[illegible]



SC 25-2 ELECTRICAL BOX ASSEMBLY

SC 25-2 ELECTRICAL BOX ASSEMBLY

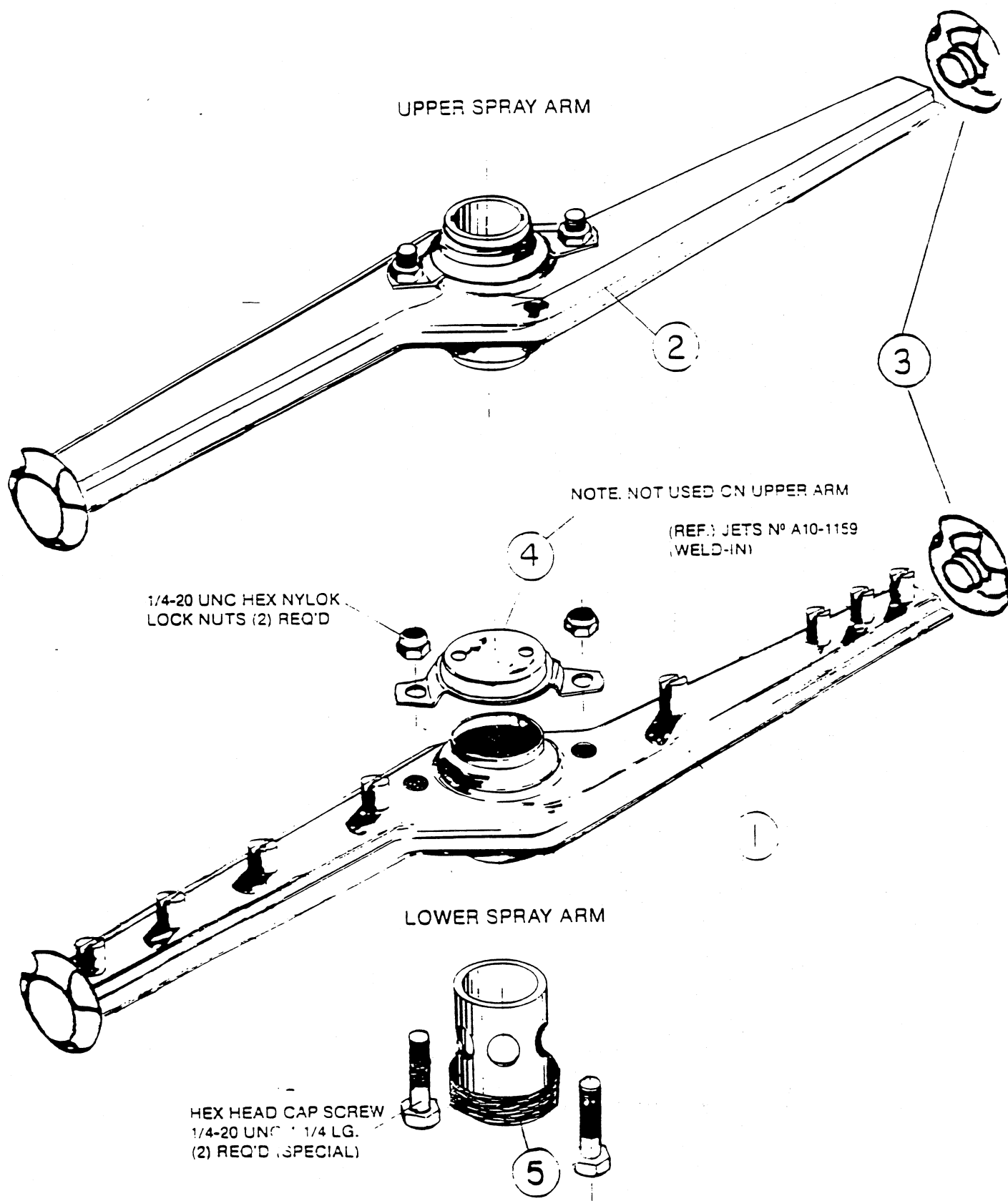
[illegible]



SC 25-2 SPRAY MANIFOLD ASSEMBLIES
 LEFT & RIGHT HAND

SC 25-2 SPRAY MANIFOLD ASSEMBLIES LEFT & RIGHT HAND

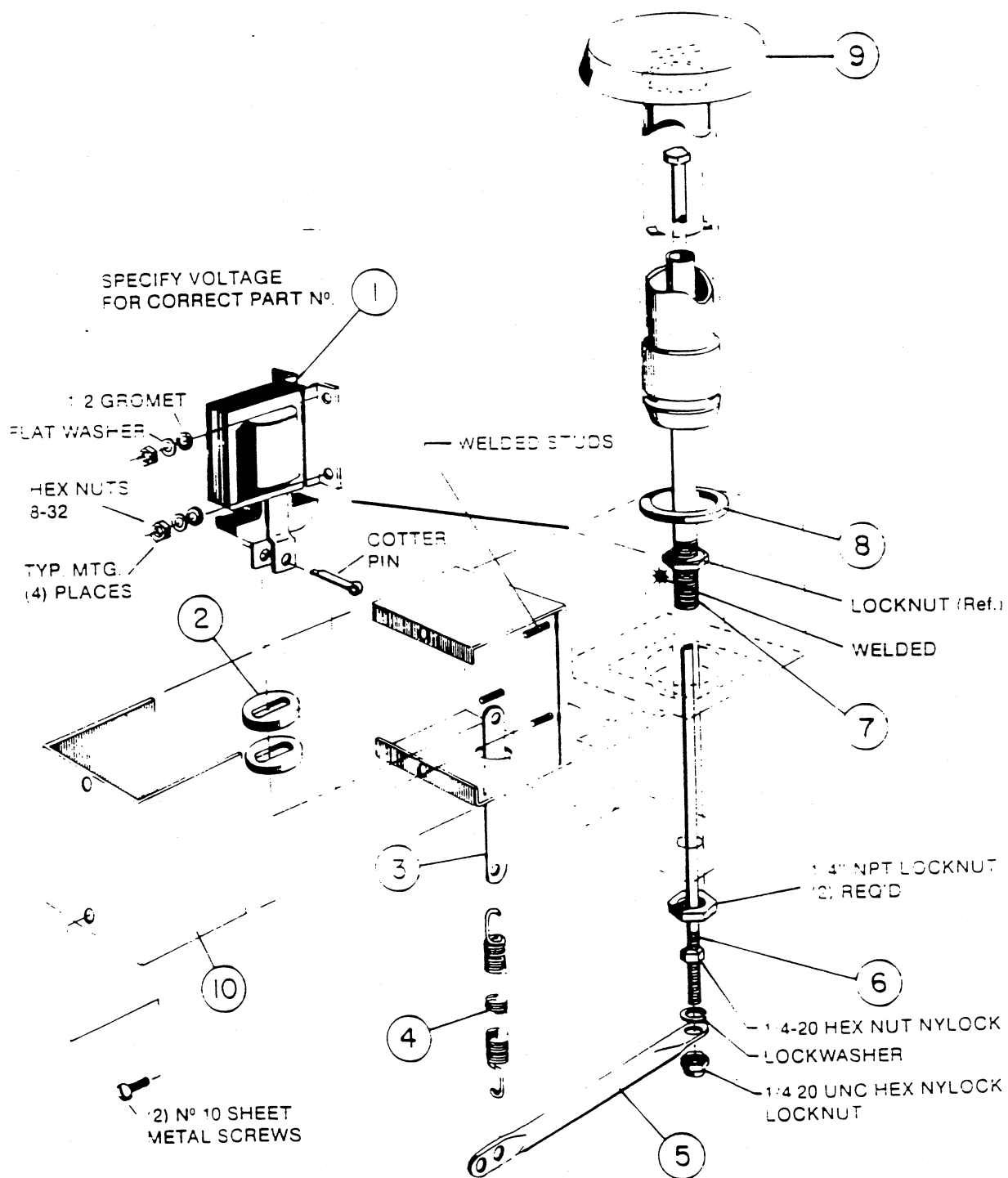
[illegible]



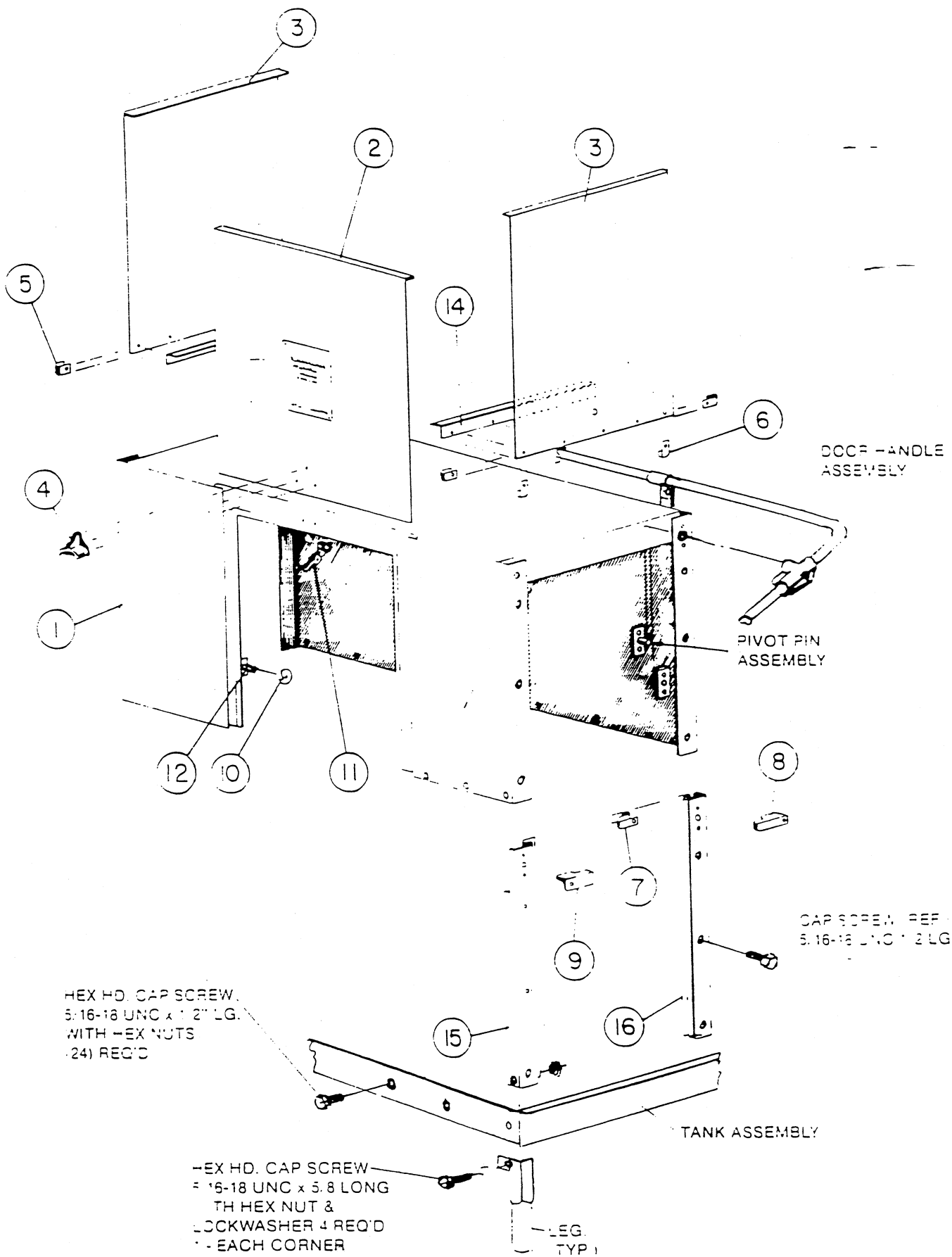
SC 20-1 REVOLVING SPRAY ARM ASSEMBLY

SC 25-2 REVOLVING SPRAY ARM ASSEMBLY

[illegible]



SC 25-2 DRAIN ASSEMBLY



SC 25-2 HOOD ASSEMBLY

HEX HD. CAP SCREW
1/4-20 UNC x 3/4" LONG
WITH LOCKWASHER &
HEX NUT

1/4-20 UNC
NYLOK HEX NUT

1/4 FLAT WASHERS
(2) REQ'D/SIDE
(4) TOTAL

5/16-18 UNC
NYLOK HEX NUT

FLAT HD. CAP SCREW
5/16-18 UNC x 1" LONG
(2) REQ'D

HEX HD. CAP SCREW
1/4-20 UNC x 1 1/2" LONG

5/16-18 UNC HEX NUT

MACHINE
FRAME

5/16" FLAT WASHER

BRACKET WELDED
TO LOWER CROSS-BAR

SC 25-2 DOOR HANDLE ASSEMBLY

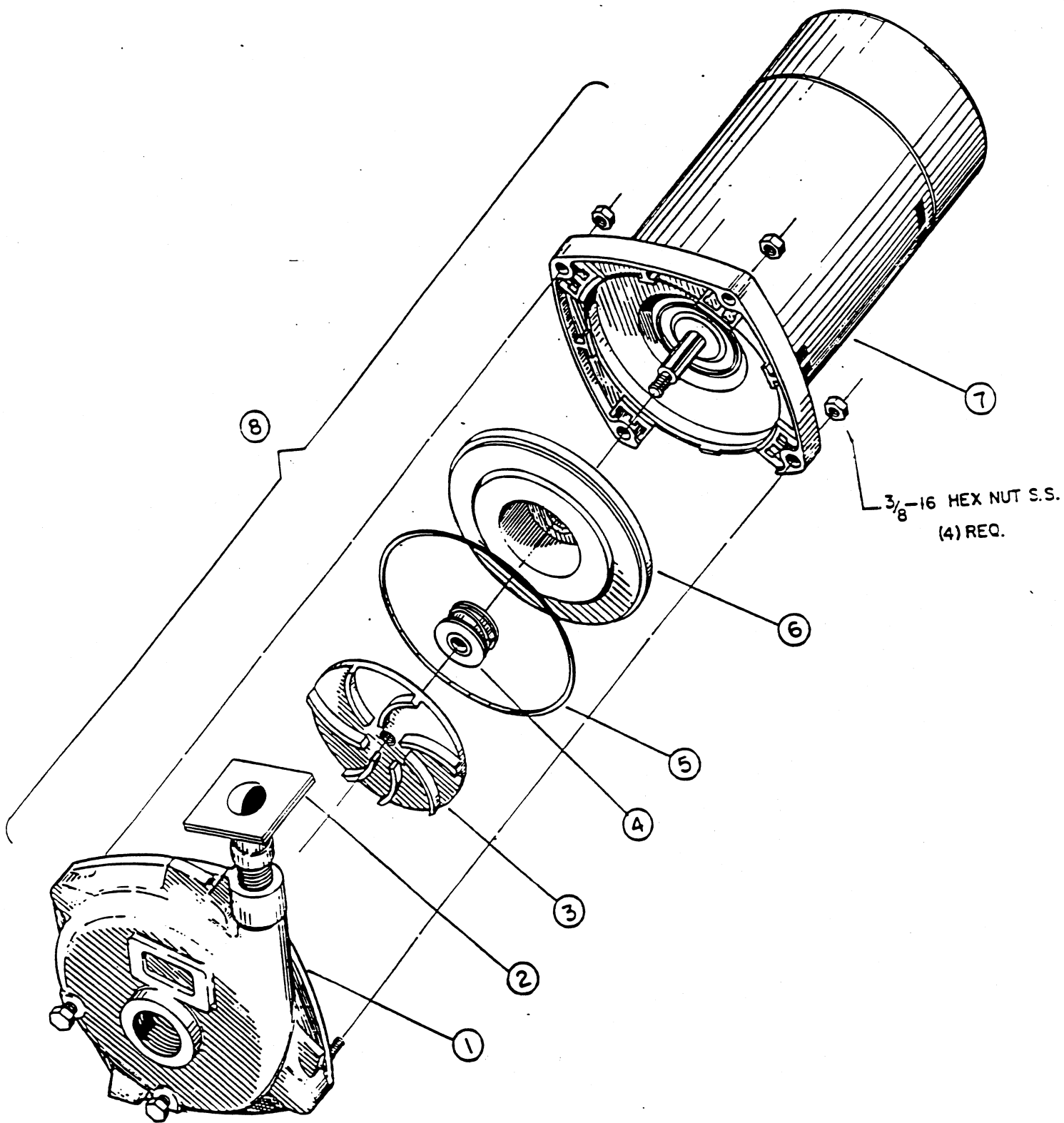
SC 25-2 DOOR HANDLE ASSEMBLY

[illegible]

**THE FOLLOWING PARTS
ARE "COMMON" TO
SC 20-1 & SC 20-2
SC 25-1, SC 25-2 & SC 25-3**

SC 20-1 & 2 PRICE PUMP &
MOTOR ASSEMBLY

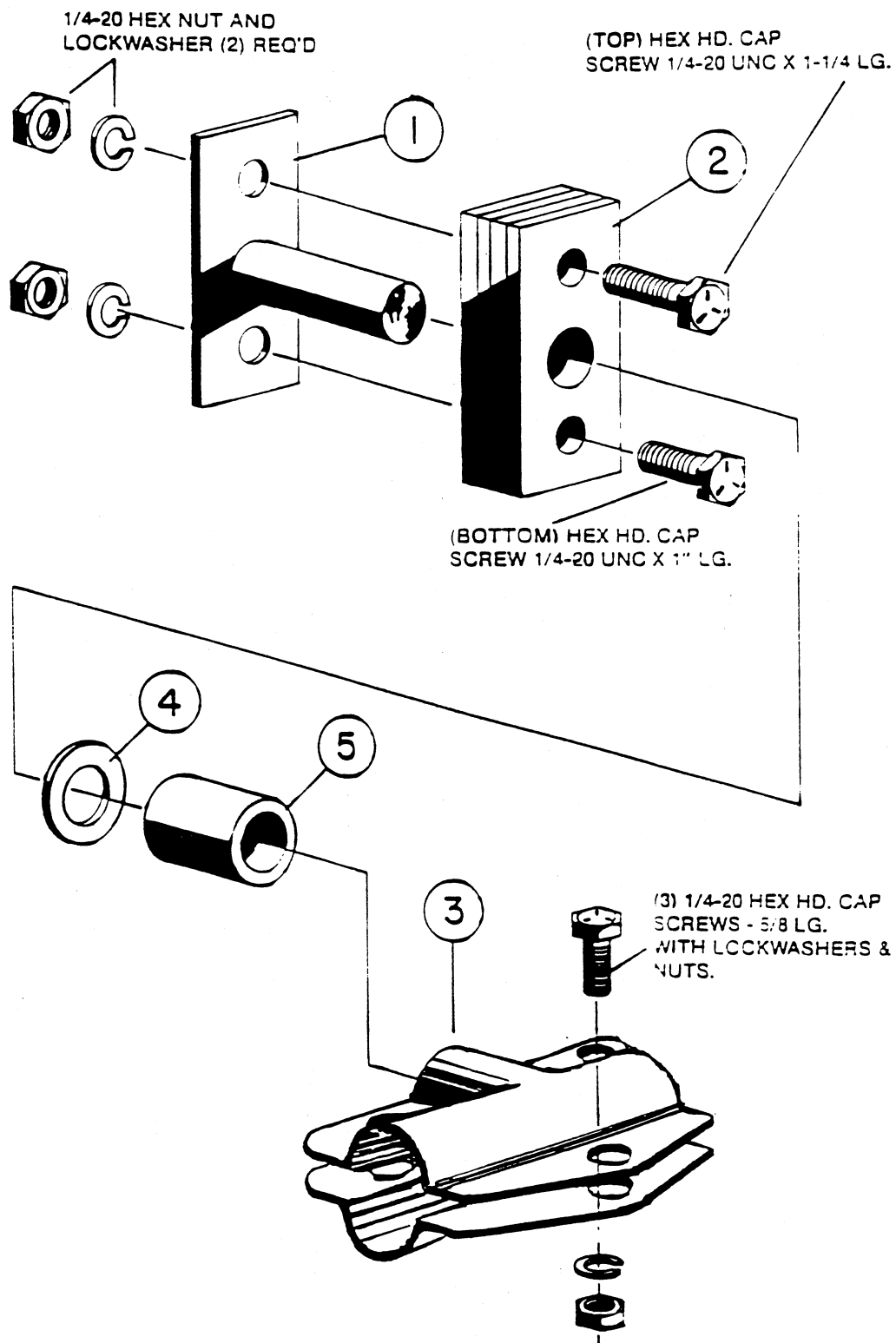
[illegible]



PUMP & MOTOR ASSEMBLY

GOULD PUMP & MOTOR ASSEMBLY

[illegible]



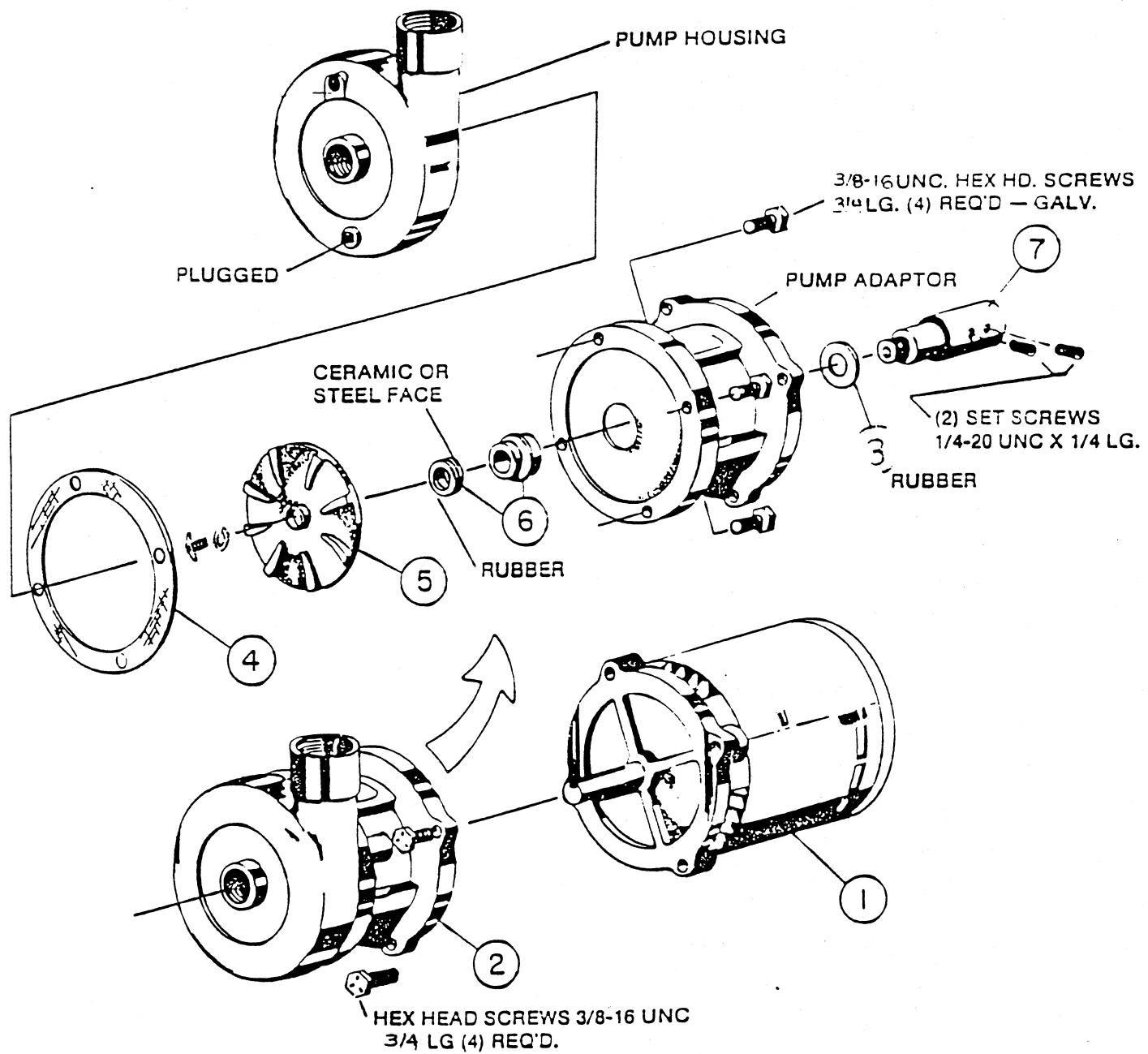
DOOR HANDLE PIVOT ASSEMBLY

DOOR HANDLE PIVOT ASSEMBLY

[illegible]

INGERSOL RAND PUMP ASSEMBLY

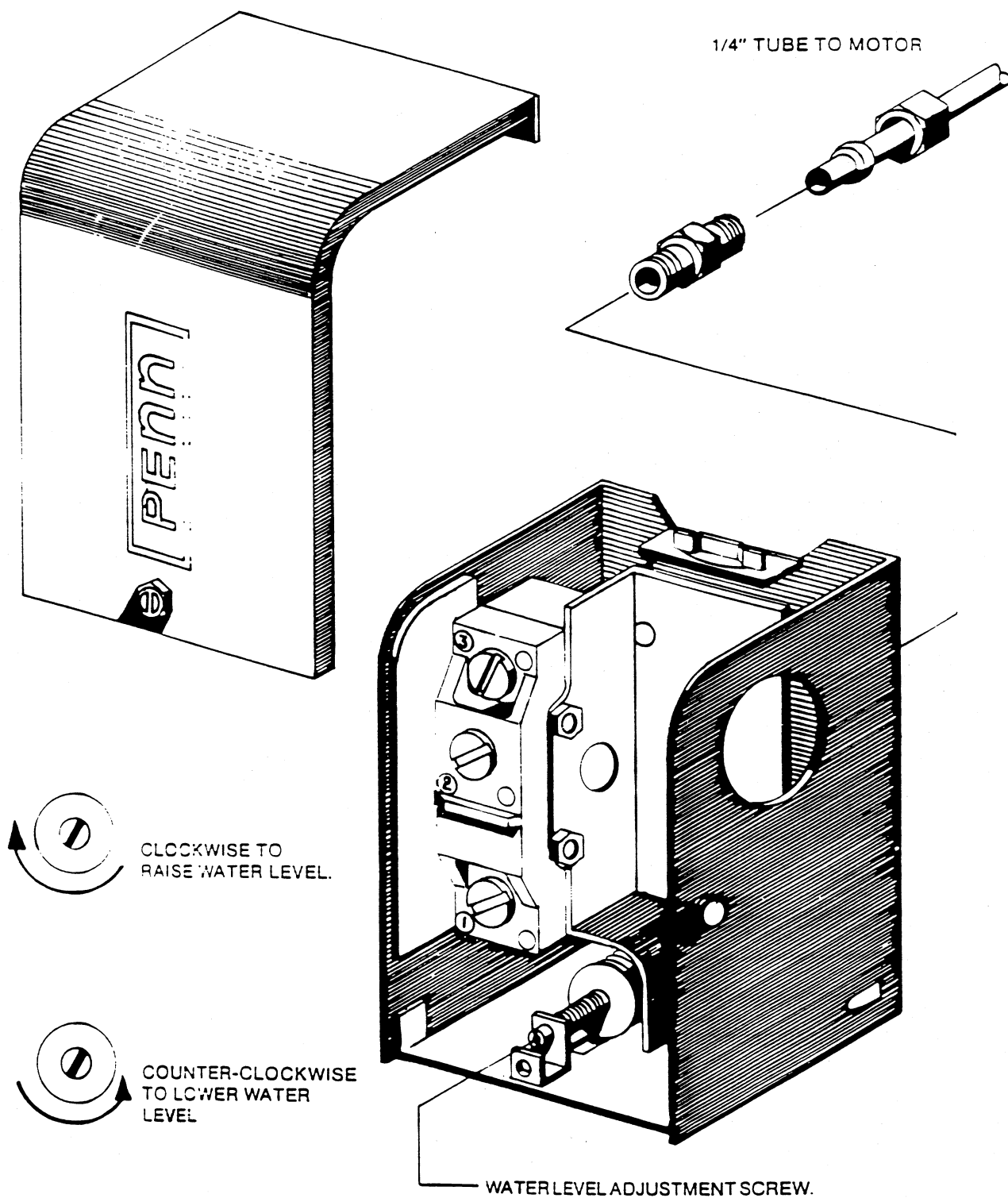
3/4 H.P.



INTRODUCED OCTOBER, 1988

3/4 HP INGERSOL RAND

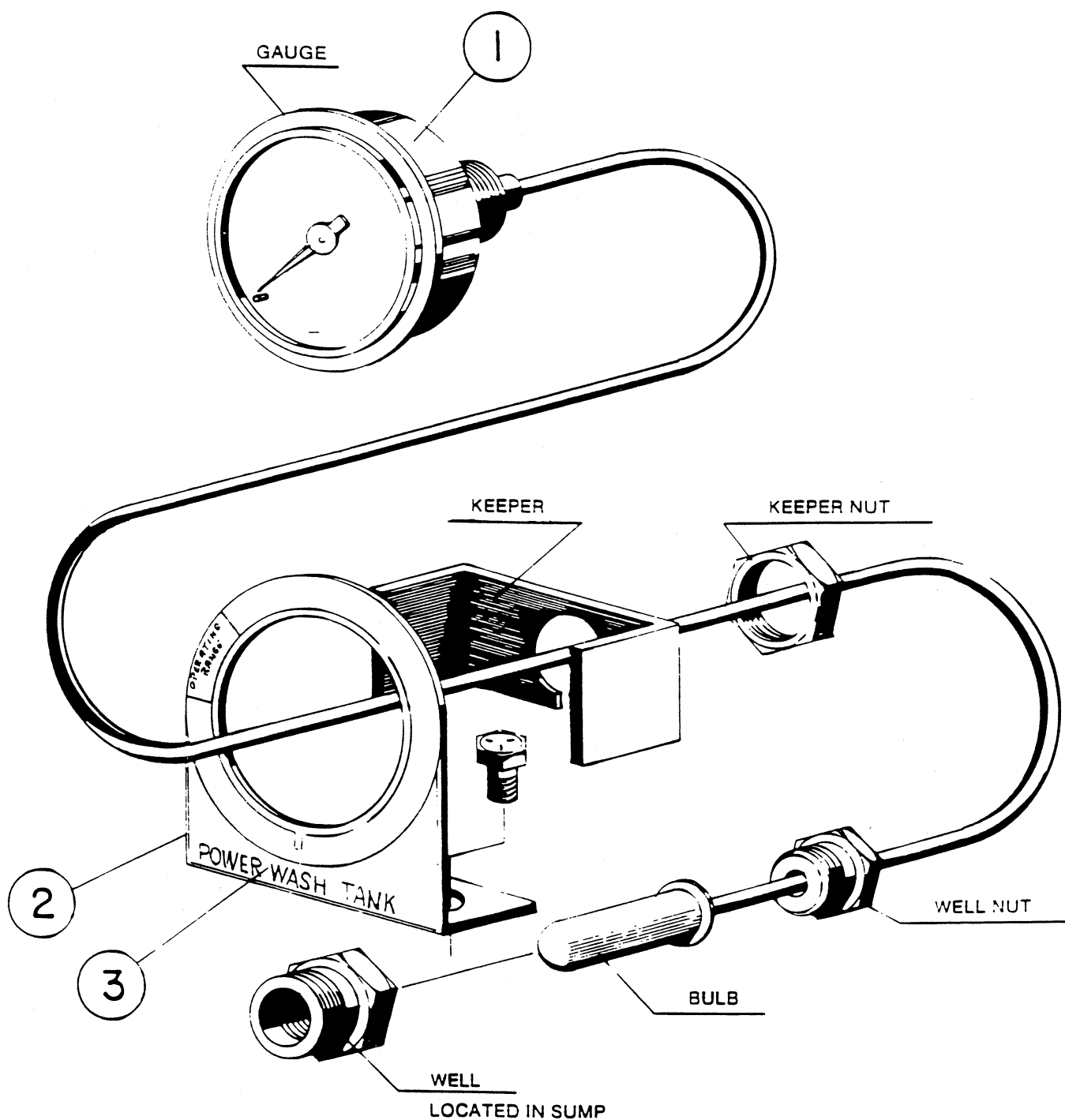
[illegible]



PRESSURE SWITCH ASSEMBLY
& WATER ADJUSTMENT LEVEL

PRESSURE SWITCH ASSEMBLY

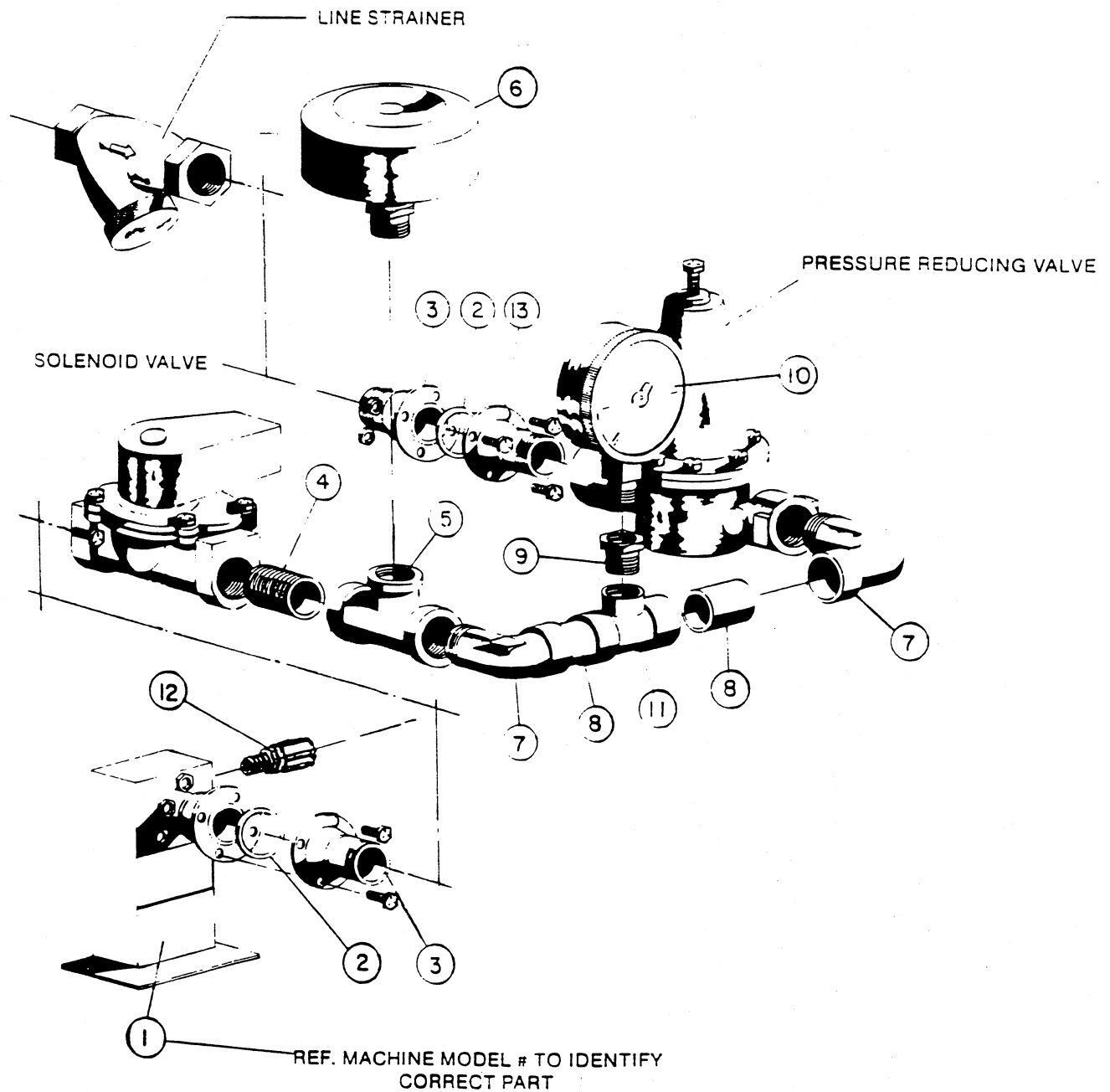
[illegible]



TEMPERATURE GAUGE ASSEMBLY

TEMPERATURE GAUGE ASSEMBLY

[illegible]

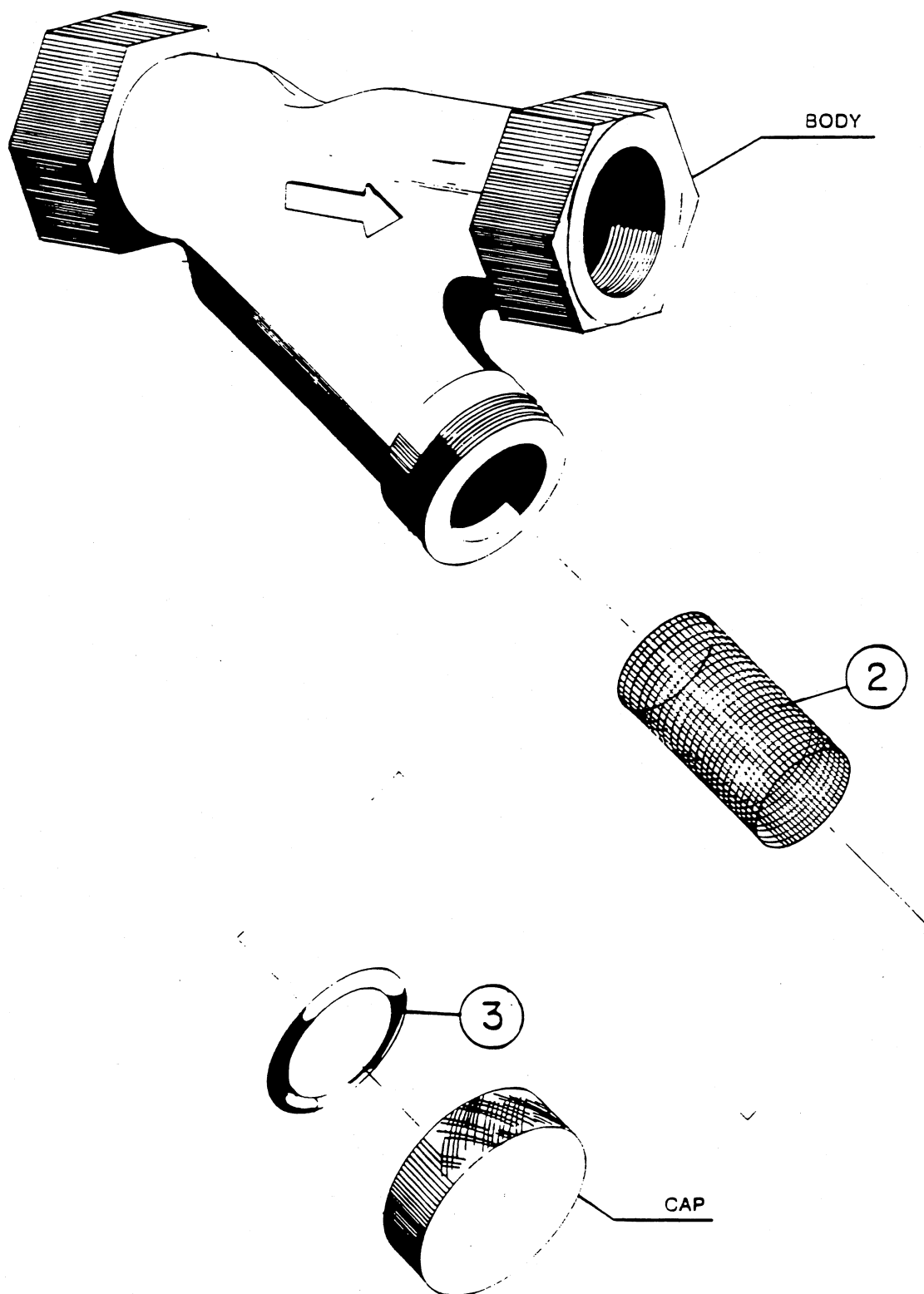


WATER SUPPLY PIPING ASSEMBLY

WATER SUPPLY PIPING ASSEMBLY

[illegible]

NOTE: COMPLETE LINE STRAINER ITEM 1

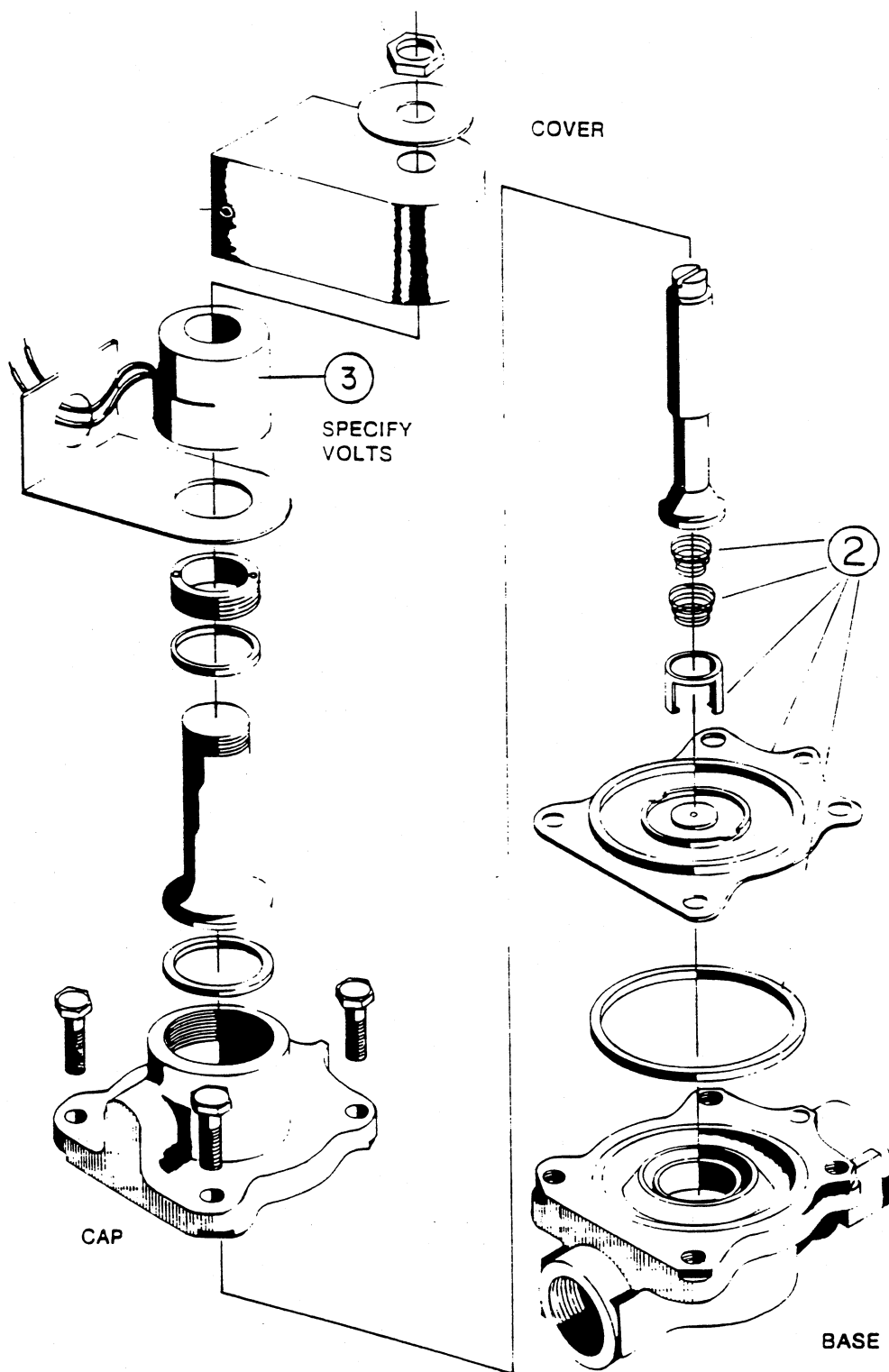


LINE STRAINER ASSEMBLY

LINE STRAINER ASSEMBLY

[illegible]

NOTE: COMPLETE VALVE (SPECIFY VOLTAGE) ITEM Nº 1

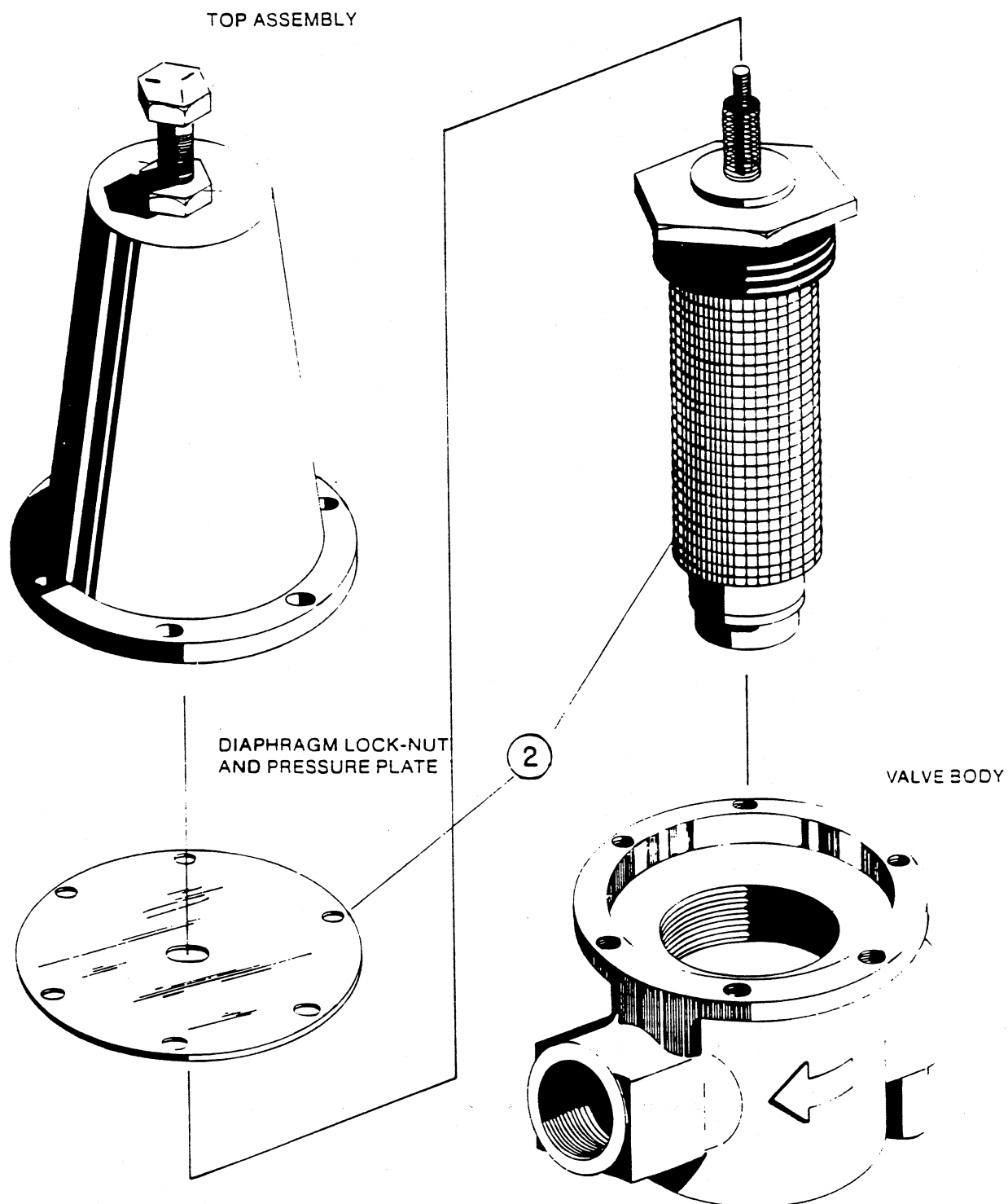


SOLENOID VALVE ASSEMBLY

SOLENOID VALVE ASSEMBLY

[illegible]

NOTE: ITEM 1 - VALVE COMPLETE

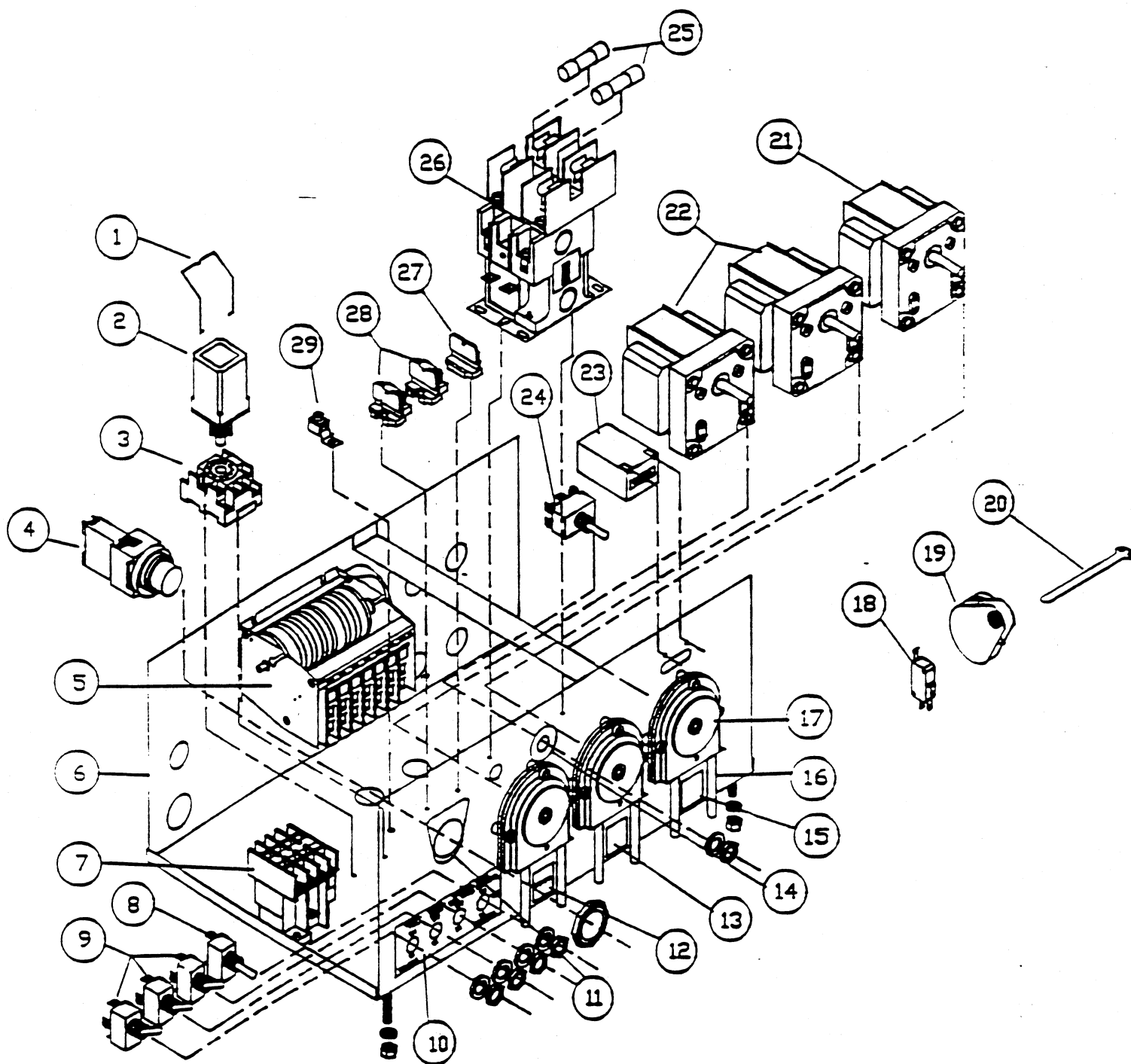


SC 20-1 & 2 PRESSURE REDUCING VALVE ASSEMBLY

[illegible]

MECH TIMER CONSOLE WITH AUTO START
 SC-25-2M 115VOLTS C10-3282

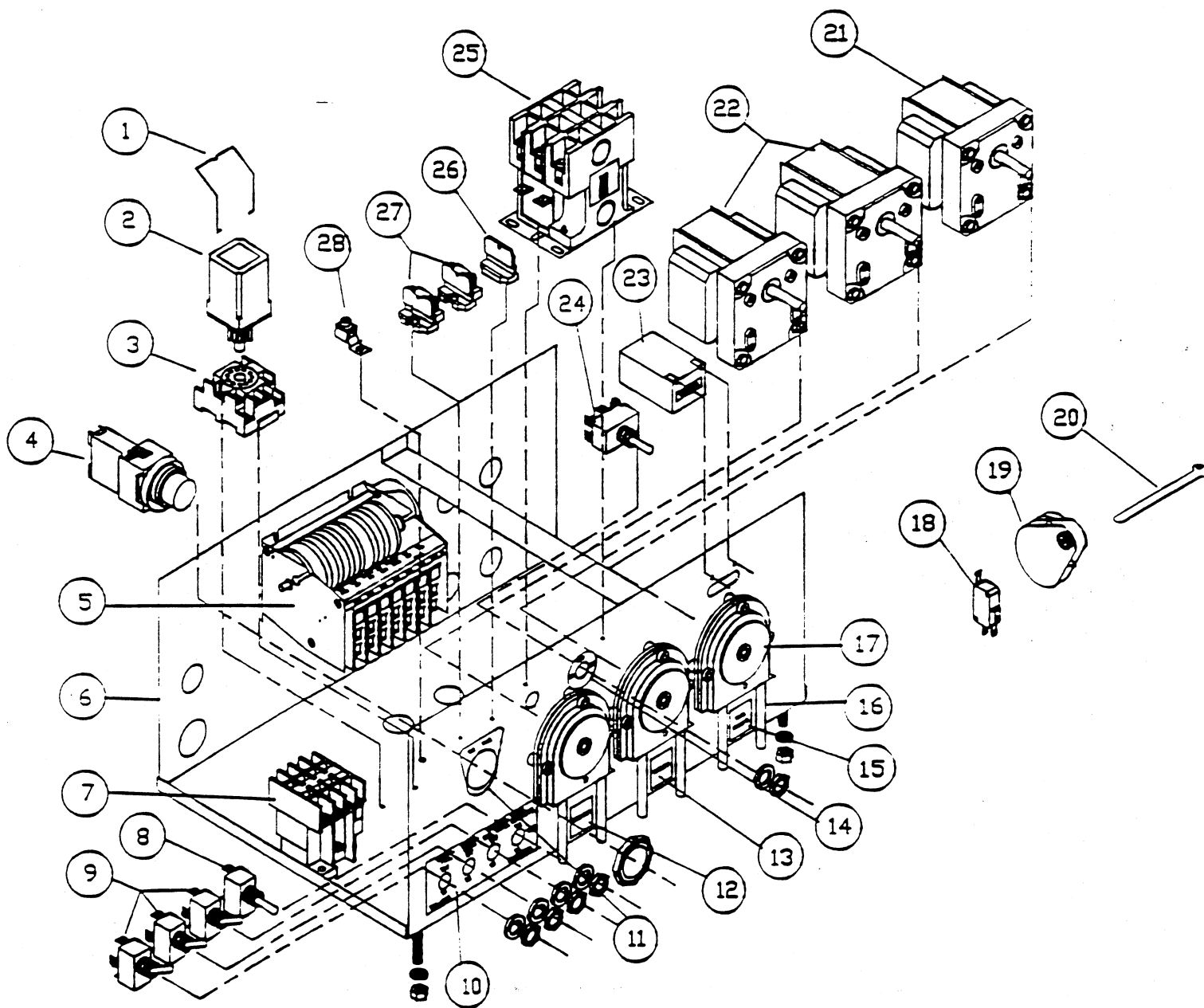
ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 120V		P47-2464
3	RELAY SOCKET		P47-2465
4	RUN PILOT COMPLETE ASSEMBLY 120V		A10-1938
5	TIMER 7 CAM 120V		P46-1858
6	CONTROL BOX BASE		C10-2058
7	RELAY 10 AMPS 2/NC 2/NO 120V		P47-1831
8	TOGGLE SWITCH 3 POSITION		P49-1852
9	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
10	DECAL CHEMICAL ID		B69-1895
11	DECAL RUN PILOT		A69-4317
12	DECAL DETERGENT		A69-4311
13	DECAL SANTIZIER		A69-4312
14	DECAL RUN STOP HOLD		A69-2296
15	DECAL RINSE ADDITIVE		A69-1440
16	SQUEEZE TUBE		P68-1005
17	CHEMICAL PUMP COMPLETE (USED ON ALL PUMPS)		P41-1001
18	REPLACEMENT TIMER SWITCH		P46-1859
19	REPLACEMENT TIMER MOTOR 120V		P46-1860
20	TIMER CAM WRENCH		P46-1867
21	RINSE AID PUMP MOTOR		P41-1013
22	DETERGENT & SANITIZER PUMP MOTOR		P41-1012
23	RACK COUNTER		P46-1050
24	TOGGLE SWITCH		P49-2043
25	FUSES		P47-1746
26	CONTACTOR FUSED 115V		P47-1819
27	TERMINAL END SECTION		P52-1100
28	TERMINAL SECTION	2 REQUIRED	P52-1099
29	GROUND LUG		P52-1156



MECH TIMER CONSOLE WITH AUTO START

SC-25-1M SC-25-3M 115V

ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 120V		P47-2464
3	RELAY SOCKET		P47-2465
4	RUN PILOT COMPLETE ASSEMBLY 120V		A10-1938
5	TIMER 7 CAM 120V		P46-1858
6	CONTROL BOX BASE		C10-2058
7	RELAY 10 AMPS 2/NC 2/NO 120V		P47-1831
8	TOGGLE SWITCH 3 POSITION		P49-1852
9	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
10	DECAL CHEMICAL ID		B69-1895
11	DECAL RUN PILOT		A69-4317
12	DECAL DETERGENT		A69-4311
13	DECAL SANTIZIER		A69-4312
14	DECAL RUN STOP HOLD		A69-2296
15	DECAL RINSE ADDITVE		A69-1440
16	SQUEEZE TUBE		P68-1005
17	CHEMICAL PUMP COMPLETE (USED ON ALL PUMPS)		P41-1001
18	REPLACEMENT TIMER SWITCH		P46-1859
19	REPLACEMENT TIMER MOTOR 120V		P46-1860
20	TIMER CAM WRENCH		P46-1867
21	RINSE AID PUMP MOTOR		P41-1013
22	DETERGENT & SANITIZER PUMP MOTOR		P41-1012
23	RACK COUNTER		P46-1050
24	TOGGLE SWITCH		P49-2043
25	CONTACTOR 3 POLE 30 AMPS 120V		P47-1801
26	TERMINAL END SECTION		P52-1100
27	TERMINAL SECTION	2 REQUIRED	P52-1099
28	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 120V		C10-3280

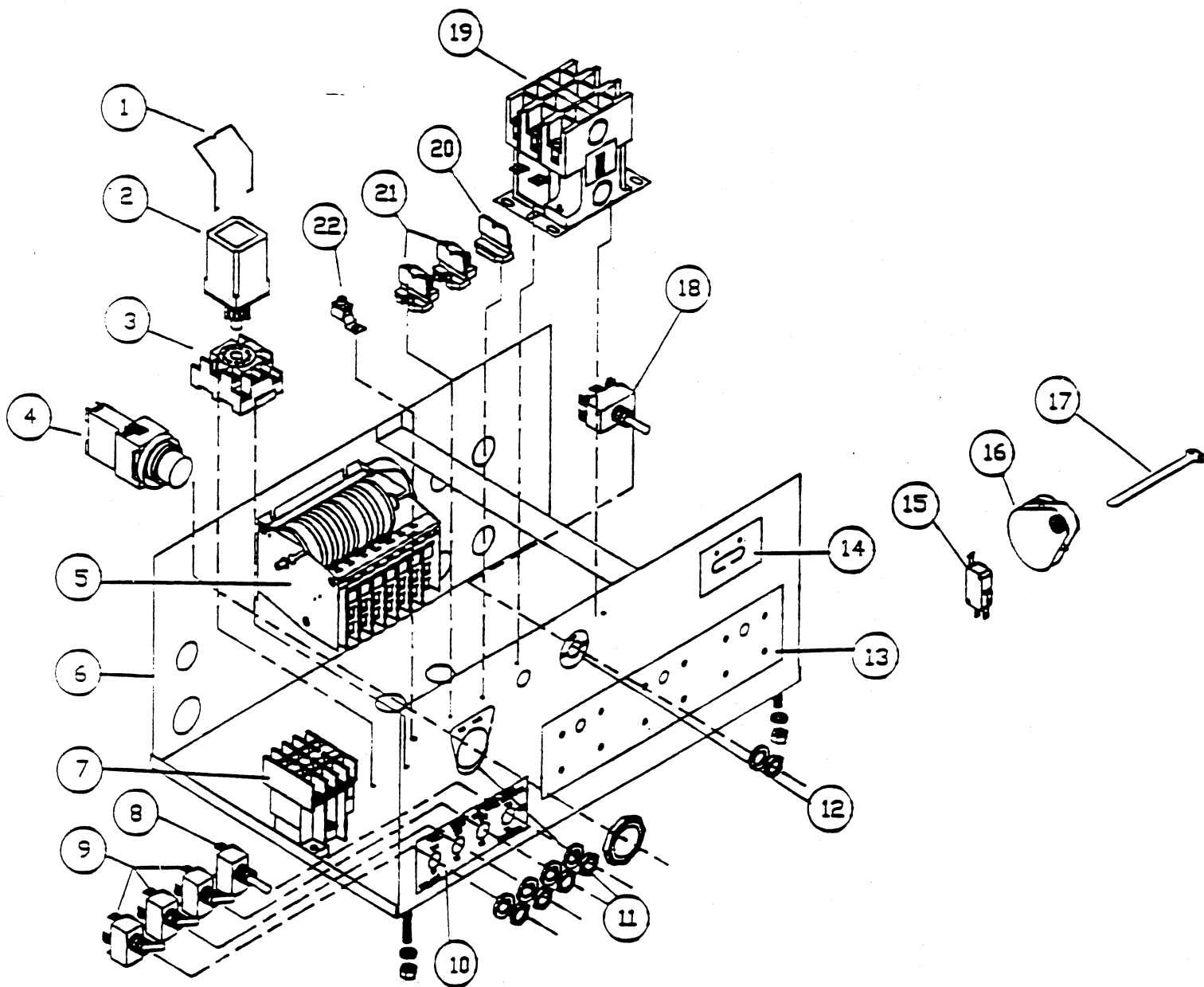


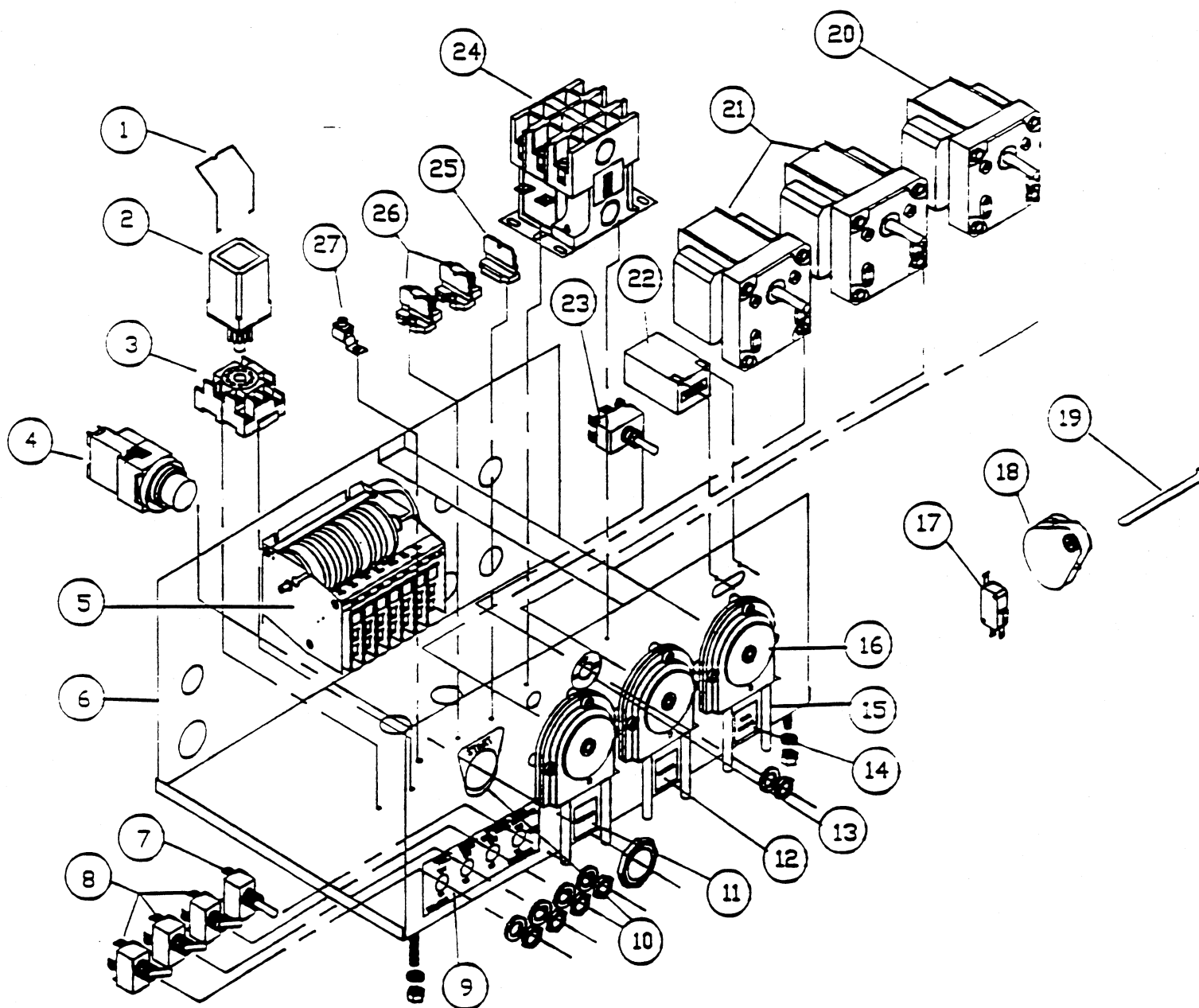
MECH TIMER CONSOLE WITH AUTO START

SC-20-1A-M & SC-20-2A-M 208/220V

ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 220V		P47-2463
3	RELAY-SOCKET		P47-2465
4	RUN PILOT COMPLETE ASSEMBLY 208/220V		A10-1938
5	TIMER 7 CAM 208/220V		P46-1865
6	CONTROL BOX BASE		C10-2058
7	RELAY 208/220V 10 AMPS 2NO 2NC		P47-1832
8	TOGGLE SWITCH 3 POSITION		P49-1852
9	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
10	DECAL CHEMICAL ID		B69-1895
11	DECAL RUN PILOT		A69-4317
12	DECAL RUN STOP HOLD		A69-2296
13	PLATE COVER		
14	PLATE COVER		
15	REPLACEMENT TIMER SWITCH		P46-1859
16	REPLACEMENT TIMER MOTOR 208/220V		P46-1866
17	TIMER CAM WRENCH		P46-1867
18	TOGGLE SWITCH		P49-2043
19	CONTACTOR 3 POLE 30 AMPS 208/220V		P47-1802
20	TERMINAL END SECTION		P52-1100
21	TERMINAL SECTION	2 REQUIRED	P52-1099
22	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 208/220V		B10-2539

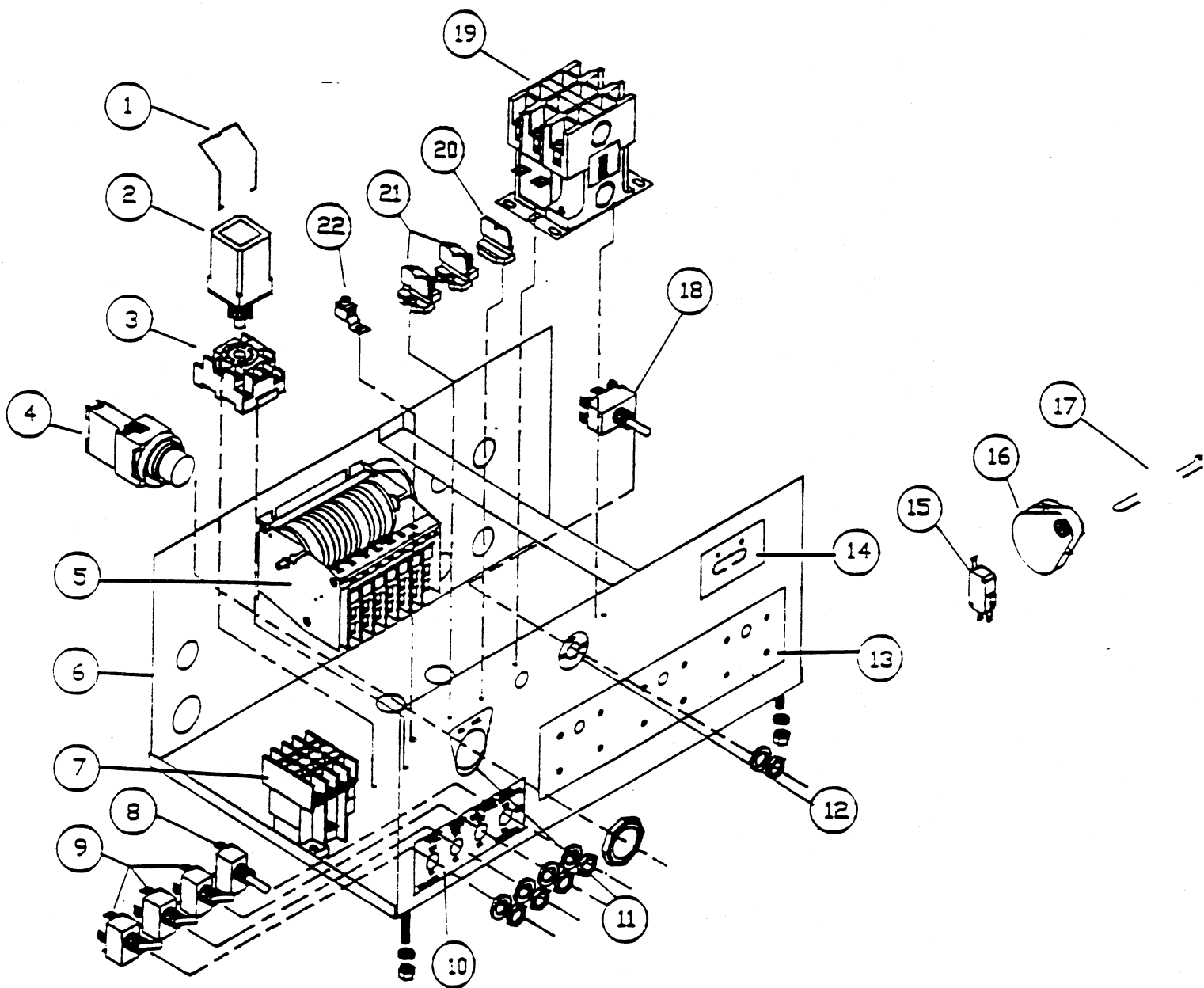
PAGE OF





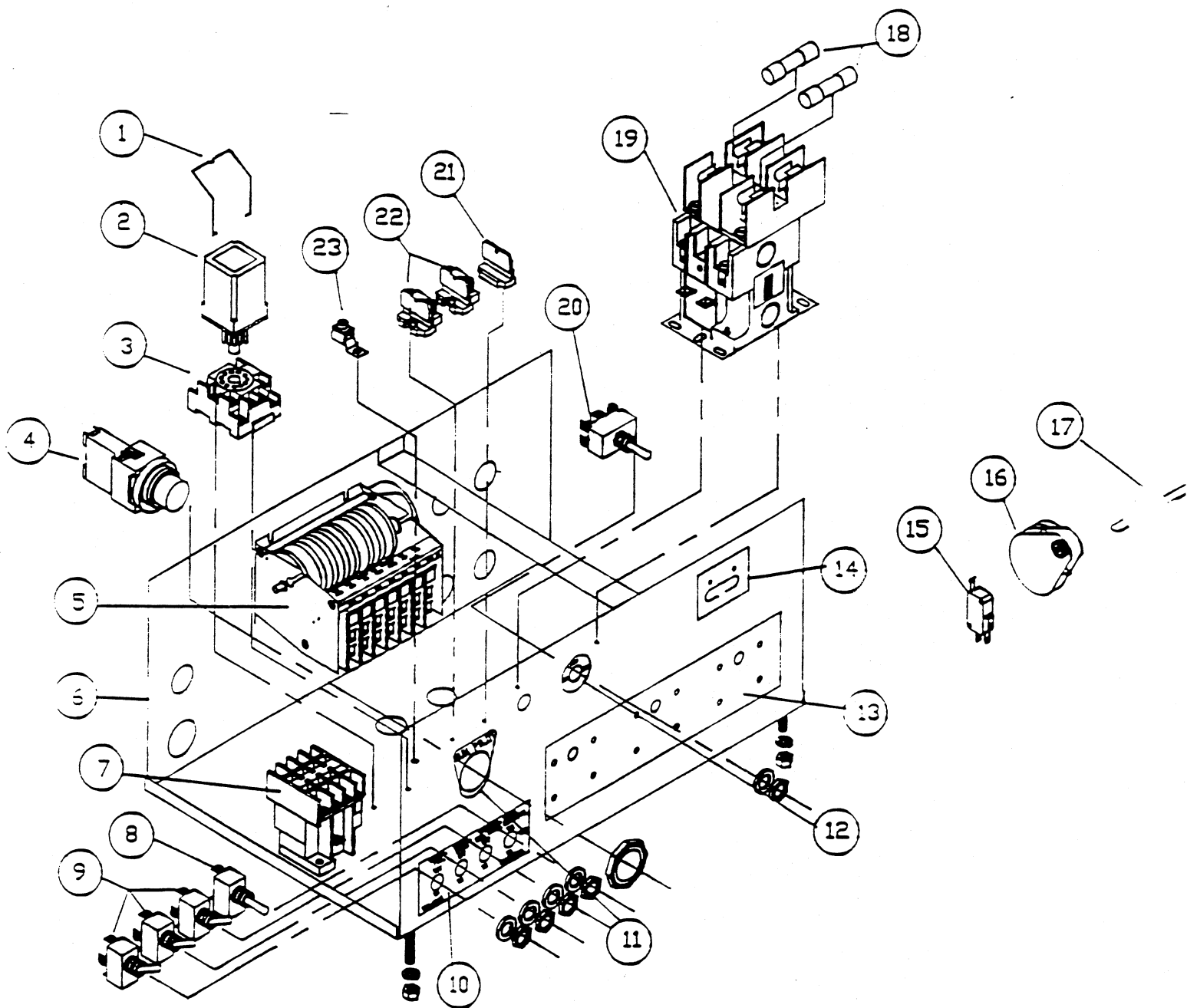
MECH TIMER CONSOLE PUSH BUTTON START
SC-25-1M SC-25-3M 115V

ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 120V		P47-2464
3	RELAY SOCKET		P47-2465
4	PUSH BUTTON START ASSEMBLY		A10-4517
5	TIMER 7 CAM 120V		P46-1858
6	CONTROL BOX BASE		C10-2058
7	TOGGLE SWITCH 3 POSITION		P49-1852
8	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
9	DECAL CHEMICAL ID		B69-1895
10	DECAL START		A69-1429
11	DECAL DETERGENT		A69-4311
12	DECAL SANTIZIER		A69-4312
13	DECAL RUN STOP HOLD		A69-2296
14	DECAL RINSE ADDITIVE		A69-1440
15	SQUEEZE TUBE		P68-1005
16	CHEMICAL PUMP COMPLETE (USED ON ALL PUMPS)		P41-1001
17	REPLACEMENT TIMER SWITCH		P46-1859
18	REPLACEMENT TIMER MOTOR 120V		P46-1860
19	TIMER CAM WRENCH		P46-1867
20	RINSE AID PUMP MOTOR		P41-1013
21	DETERGENT & SANITIZER PUMP MOTOR		P41-1012
22	RACK COUNTER		P46-1050
23	TOGGLE SWITCH		P49-2043
24	CONTACTOR 3 POLE 30 AMPS 120V		P47-1801
25	TERMINAL END SECTION		P52-1100
26	TERMINAL SECTION	2 REQUIRED	P52-1099
27	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 120V		B10-2540



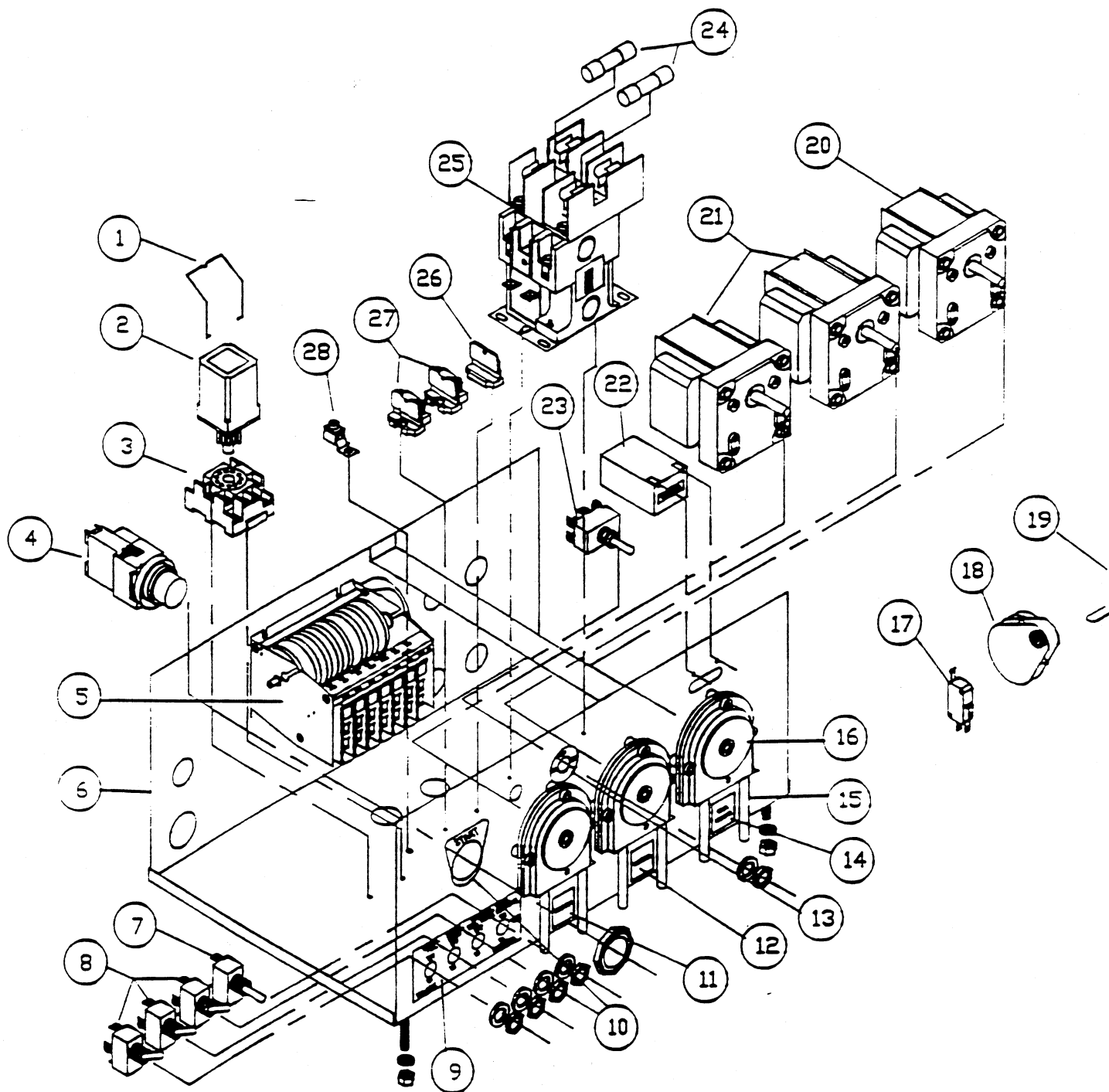
MECH TIMER CONSOLE WITH AUTO START
SC-20-1A-M 115V

ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 115V		P47-2464
3	RELAY SOCKET		P47-2465
4	RUN PILOT COMPLETE ASSEMBLY 115V		A10-1938
5	TIMER 7 CAM 115V		P46-1858
6	CONTROL BOX BASE		C10-2058
7	RELAY 115V 10 AMPS 2/NO 2/NC		P47-1831
8	TOGGLE SWITCH 3 POSITION		P49-1852
9	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
10	DECAL CHEMICAL ID		B69-1895
11	DECAL RUN PILOT		A69-4317
12	DECAL RUN STOP HOLD		A69-2296
13	PLATE COVER		
14	PLATE COVER		
15	REPLACEMENT TIMER SWITCH		P46-1859
16	REPLACEMENT TIMER MOTOR 1215V		P46-1860
17	TIMER CAM WRENCH		P46-1867
18	TOGGLE SWITCH		P49-2043
19	CONTACTOR 3 POLE 115V		P47-1801
20	TERMINAL END SECTION		P52-1100
21	TERMINAL SECTION	2 REQUIRED	P52-1099
22	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 115V		B10-2536



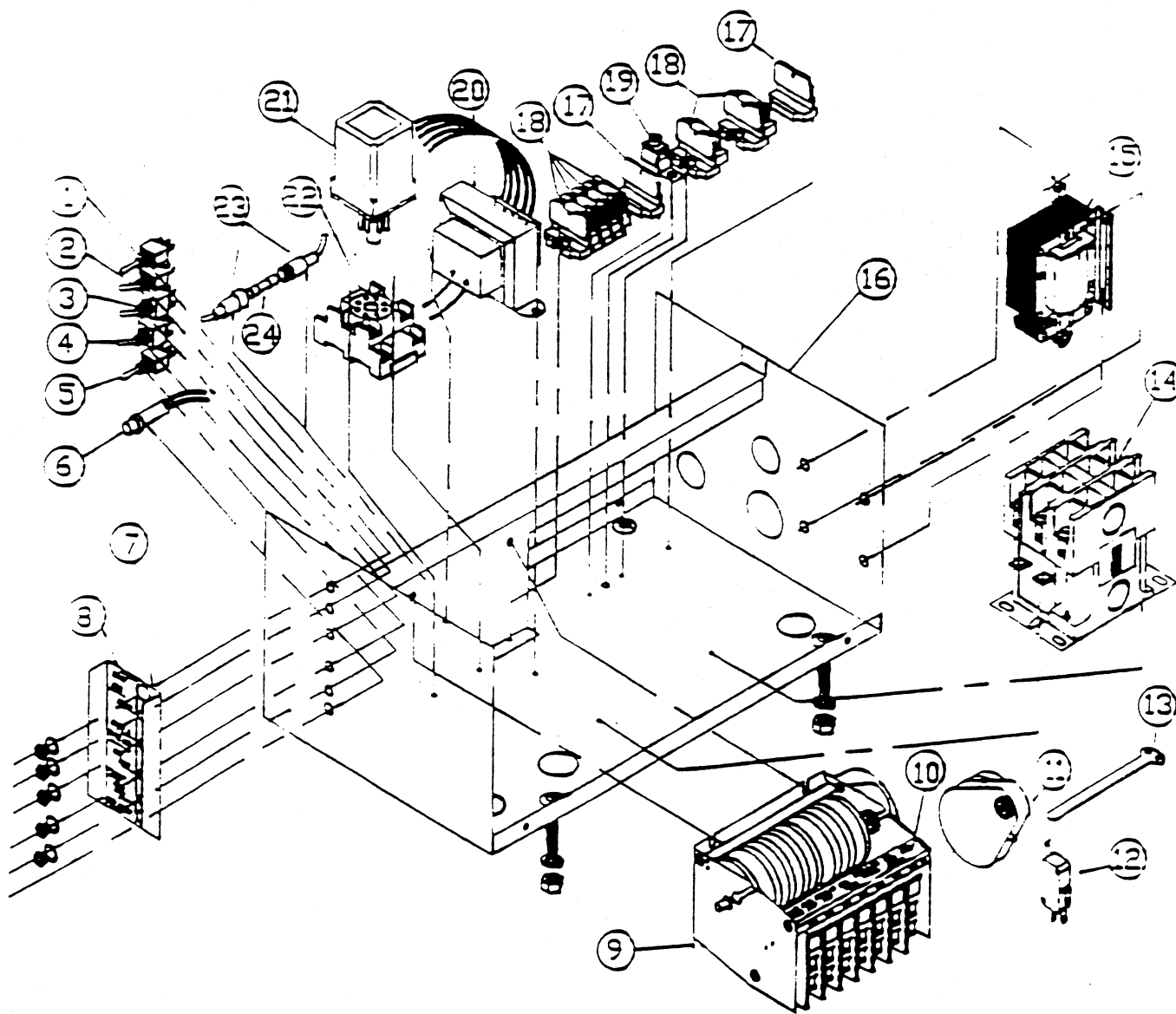
MECH TIMER CONSOLE WITH AUTO START
SC-20-2A-M 115V

ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3-POLE 10 AMPS 115V		P47-2464
3	RELAY SOCKET		P47-2465
4	RUN PILOT COMPLETE ASSEMBLY 115V		A10-1938
5	TIMER 7 CAM 115 V		P46-1858
6	CONTROL BOX BASE		C10-2058
7	RELAY 115V 10 AMPS 2/NO 2/NC		P47-1831
8	TOGGLE SWITCH 3 POSITION		P49-1852
9	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
10	DECAL CHEMICAL ID		B69-1895
11	DECAL RUN PILOT		A69-4317
12	DECAL RUN STOP HOLD		A69-2296
13	PLATE COVER		
14	PLATE COVER		
15	REPLACEMENT TIMER SWITCH		P46-1859
16	REPLACEMENT TIMER MOTOR		P46-1860
17	TIMER CAM WRENCH		P46-1867
18	FUSES		P47-1746
19	CONTACTOR 3 POLE FUSED 115V		P47-1819
20	TOGGLE SWITCH		P49-2043
21	TERMINAL END SECTION		P52-1100
22	TERMINAL SECTION	2 REQUIRED	P52-1099
23	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 115V		B10-2538



MECH TIMER CONSOLE PUSH BUTTON START
SC-25-2-M 115V

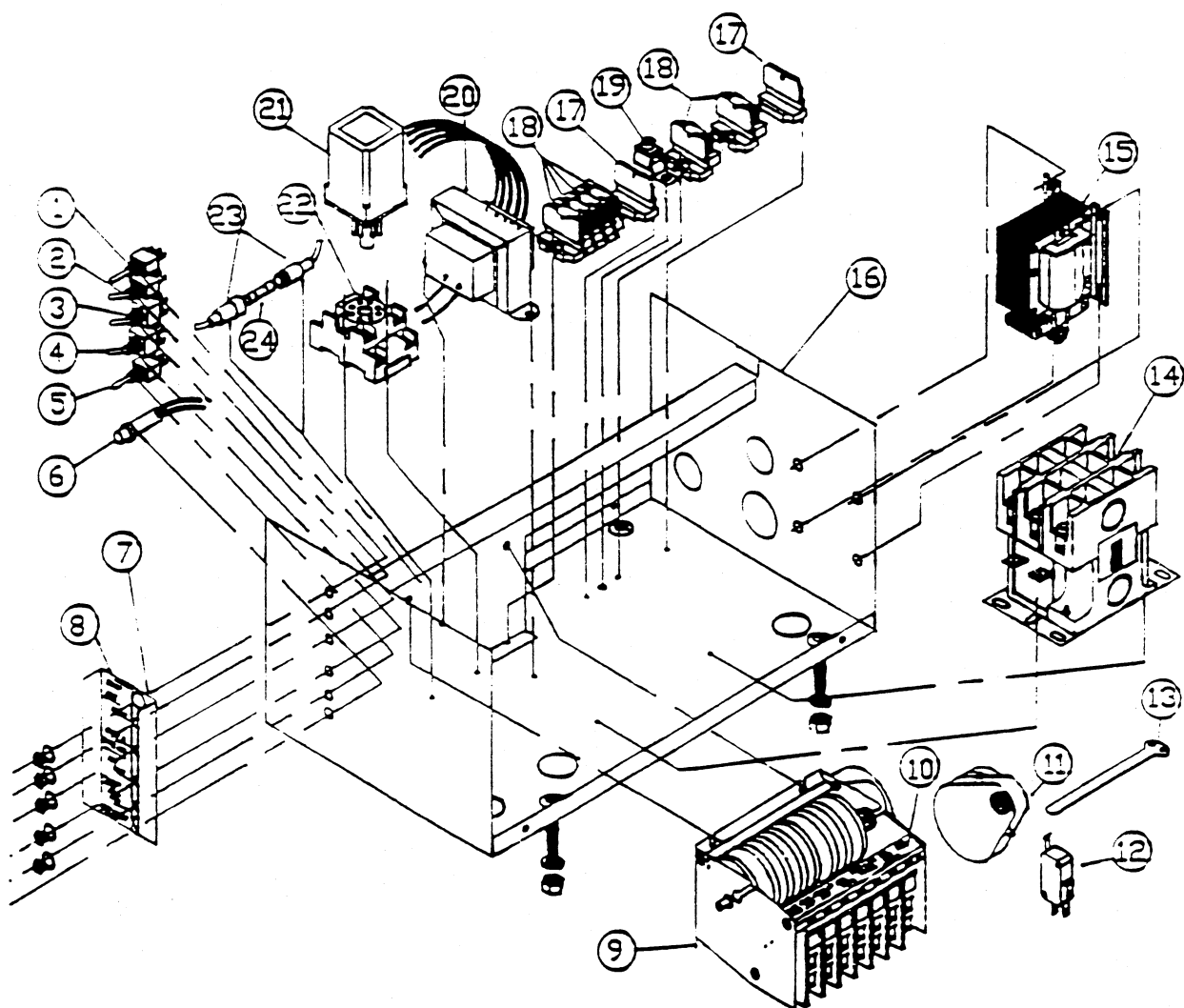
ITEM	DESCRIPTION	REMARKS	PART NO.
1	RELAY CLIP		P47-2466
2	RELAY 3 POLE 10 AMPS 120V		P47-2464
3	RELAY SOCKET		P47-2465
4	PUSH BUTTON START ASSEMBLY		A10-4517
5	TIMER 7 CAM 120V		P46-1858
6	CONTROL BOX BASE		C10-2059
7	TOGGLE SWITCH 3 POSITION		P49-1852
8	TOGGLE SWITCH 1HP-125V-20 AMPS	3 REQUIRED	P49-1851
9	DECAL CHEMICAL ID		B69-1895
10	DECAL START		A69-1429
11	DECAL DETERGENT		A69-4311
12	DECAL SANTIZER		A69-4312
13	DECAL RUN STOP HOLD		A69-2296
14	DECAL RINSE ADDITIVE		A69-1440
15	SQUEEZE TUBE		P68-1005
16	CHEMICAL PUMP COMPLETE (USED ON ALL PUMPS)		P41-1001
17	REPLACEMENT TIMER SWITCH		P46-1859
18	REPLACEMENT TIMER MOTOR 120V		P46-1850
19	TIMER CAM WRENCH		P46-1867
20	RINSE AID PUMP MOTOR		P41-1013
21	DETERGENT & SANITIZER PUMP MOTOR		P41-1012
22	RACK COUNTER		P46-1050
23	TOGGLE SWITCH		P49-2043
24	FUSES		P47-1746
25	CONTACTOR FUSED 115V		P47-1819
26	TERMINAL END SECTION		P52-1100
27	TERMINAL SECTION	2 REQUIRED	P52-1099
28	GROUND LUG		P52-1156
	CONTROL BOX COMPLETE 120V		C10-3281



208/230 VOLTS

CONTROL BOX ASSEMBLY RETROFIT MECH TIMER SC-20-1A SC-25-1&3

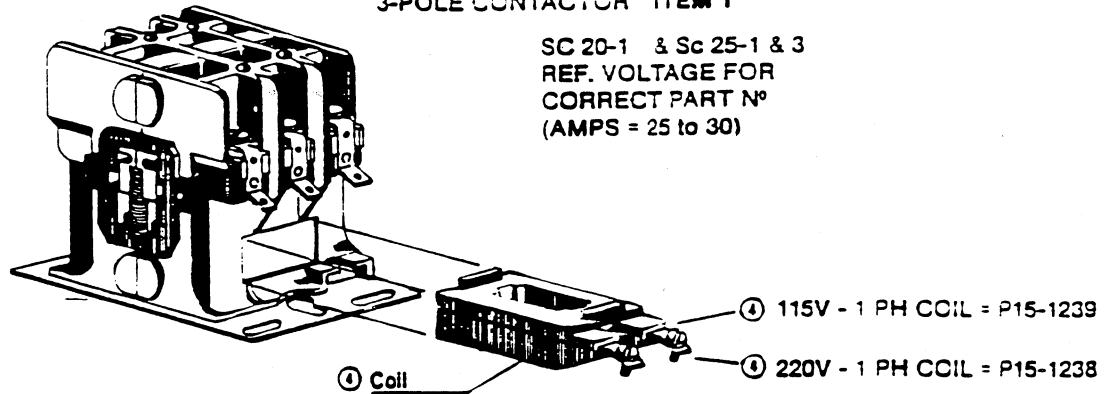
ITEM	DESCRIPTION	REMARKS	PART NO.
1	DRAIN / FILL SWITCH		P49-2046
2	DETERGENT SWITCH		P49-2047
3	SANITARY RINSE AID SWITCH		P49-2048
4	RUN / HOLD SWITCH		P49-2050
5	AUTO / STOP / HAND SWITCH		P49-2049
6	RED PILOT LIGHT 208 VOLT		P49-2037
7	SWITCH GUARD S.S.		A10-3260
8	SC-20-1A SC-25-1 DECAL MECH TIMER		A69-2302
9	TIMER 208 VOLT 7 CAM MECH		P46-1865
10	TIMER DECAL		A69-1989
11	REPLACEMENT TIMER MOTOR		P46-1866
12	REPLACEMENT TIMER SWITCH		P46-1859
13	TIMER CAM WRENCH		P46-1867
14	CONTACTOR 3 POLE 208 V		P47-1802
15	DRAIN SOLENOID 115 VOLTS	IF NEEDED	P54-1089
16	RETROFIT TIMER BOX ASSEMBLY		A10-4323
17	TERMINAL BLOCK END SECTION		P52-1100
18	TERMINAL SECTIONAL # 524		P52-1099
19	GROUND LUG		P52-1156
20	TRANSFORMER 240/208/120 TO 25 VOLTS		P53-1054
21	2 POLE 10 AMPS 24 VOLT RELAY		P47-1850
22	RELAY SOCKET		P47-1741
23	LITTLE FUSE HOLDER		P49-2045
24	LITTLE FUSE 1 AMP		P49-2044
	NOTE:		
	RETROFIT MECH TIMER UNIT 208/230 SC-20-1A & SC-20-2A WITHOUT STERO CHEMICAL DISP. UNIT		C10-3263
	REFROFIT MECH TIMER UNIT 208/230 SC-20-1A & SC-20-2A & SC-25-1&3 SC-25-2 WITH STERO CHEMICAL DISP. UNIT		C10-3266



CONTROL BOX ASSEMBLY RETROFIT MECH TIMER 115 VOLTS SC-20-1A SC-25-1&3			
ITEM	DESCRIPTION	REMARKS	PART VOL
1	DRAIN / FILL SWITCH		P49-2046
2	DETERGENT SWITCH		P49-2047
3	SANITARY RINSE AID SWITCH		P49-2048
4	RUN / HOLD SWITCH		P49-2050
5	AUTO / STOP / HAND SWITCH		P49-2049
6	RED PILOT LIGHT 125 VOLTS		P49-2036
7	SWITCH GUARD S.S.		A10-3250
8	SC-20-1A SC-25-1 DECAL MECH TIMER		A69-2302
9	TIMER 115 VOLTS 7 CAM MECH		P46-1858
10	TIMER DECAL		A69-1989
11	REPLACEMENT TIMER MOTOR		P46-1860
12	REPLACEMENT TIMER SWITCH		P49-1859
13	TIMER CAM WRENCH		P46-1867
14	CONTACTOR 3 POLE 30 AMPS 115 VOLTS		P47-1801
15	DRAIN SOLENOID 115 VOLTS	IF NEEDED	P54-1091
16	RETROFIT TIMER BOX ASSEMBLY		A10-4323
17	TERMINAL BLOCK END SECTION		P52-1100
18	TERMINAL SECTIONAL # 524		P52-1099
19	GROUND LUG		P52-1156
20	TRANSFORMER 240/208/120 TO 25 VOLTS		P53-1054
21	2 POLE 10 AMPS 24 VOLT RELAY		P47-1850
22	RELAY SOCKET		P47-1741
23	LITTLE FUSE HOLDER		P49-2045
24	LITTLE FUSE 1 AMP		P49-2044
	NOTE:		
	RETROFIT MECH TIMER UNIT 115V SC-20-1A & SC25-1&3		C10-3262
	RETROFIT MECH TIMER UNIT 115V SC-20-2A & SC-25-2		C10-3264

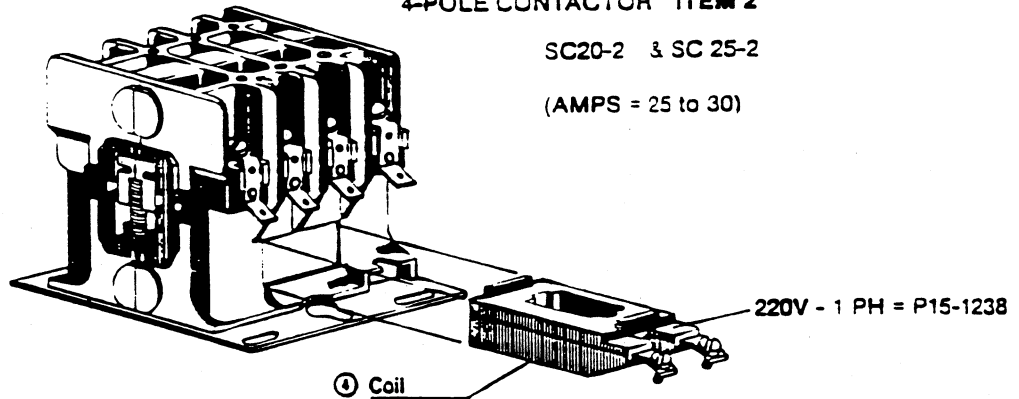
3-POLE CONTACTOR ITEM 1

SC 20-1 & SC 25-1 & 3
REF. VOLTAGE FOR
CORRECT PART N°
(AMPS = 25 to 30)



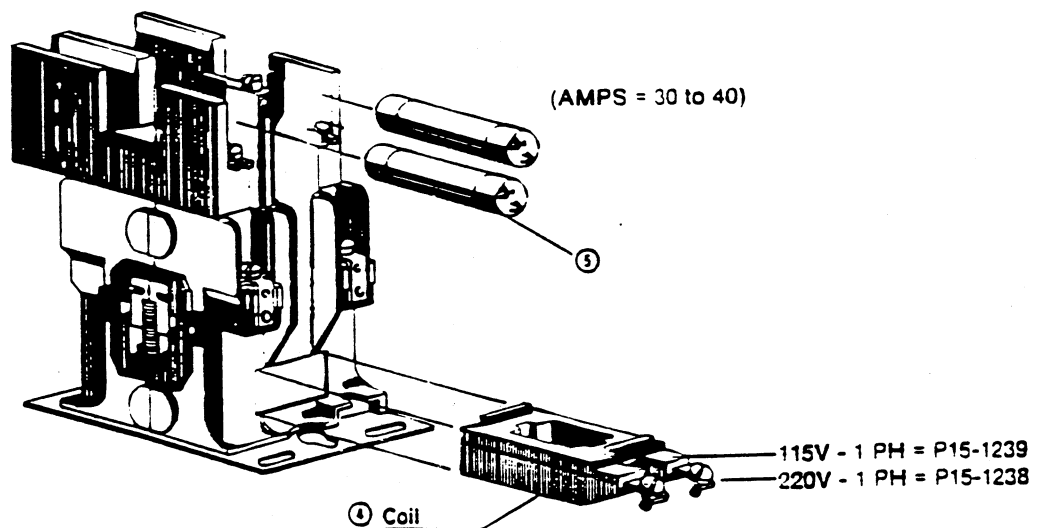
4-POLE CONTACTOR ITEM 2

SC20-2 & SC 25-2
(AMPS = 25 to 30)



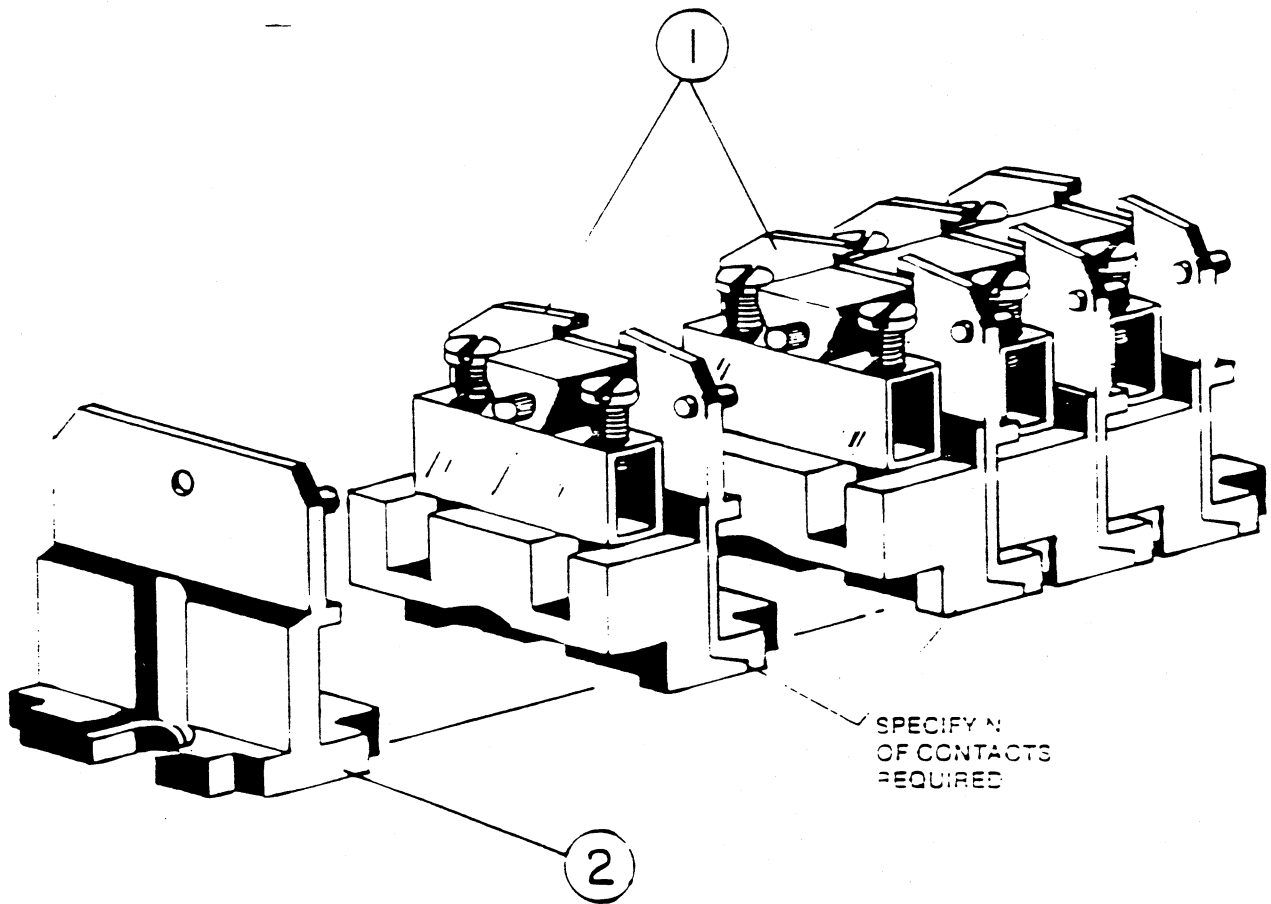
2-POLE CONTACTOR ITEM 3

(AMPS = 30 to 40)



CONTACTOR IDENTIFICATION & ASSEMBLY

[illegible]



TERMINAL STRIP

TERMINAL STRIP

[illegible]



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(877) 762-3200