Electro Freeze®

OPERATOR'S MANUAL

with Illustrated Parts List

GENESIS SERIES

Soft Serve Freezer

Model GEN-5420

Operator's Manual
for
Electro Freeze
Soft Serve Freezer
Model GEN-5420

SAFETY FIRST!

Follow these four steps to safety ....

1. Recognize Safety Information ....Look for this safety alert symbol throughout this manual.

2. Understand Signal Words ....

DANGER

WARNING

CAUTION

DANGER, WARNING and CAUTION

DANGER, WARNING CAUTION
DANGER identifies the most serious
DANGER WARNING
are typically near specific hazards on the freezer. General
CAUTION
CAUTION

3. Follow Safety Instructions ....

DO NOT

SAFETY FIRST!

4. Definitions ....

Trained person (or Operator):

filling, and basic cleaning, disassembly, washing, and sanitation of the freezer.

Freezer Technician:
an experienced and qualified service person, to perform more complicated operations

5. Operate Safely ....

IMPORTANT: Store Managers,owners, and supervisors must be aware of staff capabilities and that they do not perform freezer operations outside their level of knowledge or responsibility.

DO NOT

DO NOT

DO NOT

6. Caution ....

Do not store explosive substances such as aerosol cans with a flammable

Safety Decal Locations

figure to the right. The labels have been

No.	Part No.	Description (Qty)

Safety Decal Locations

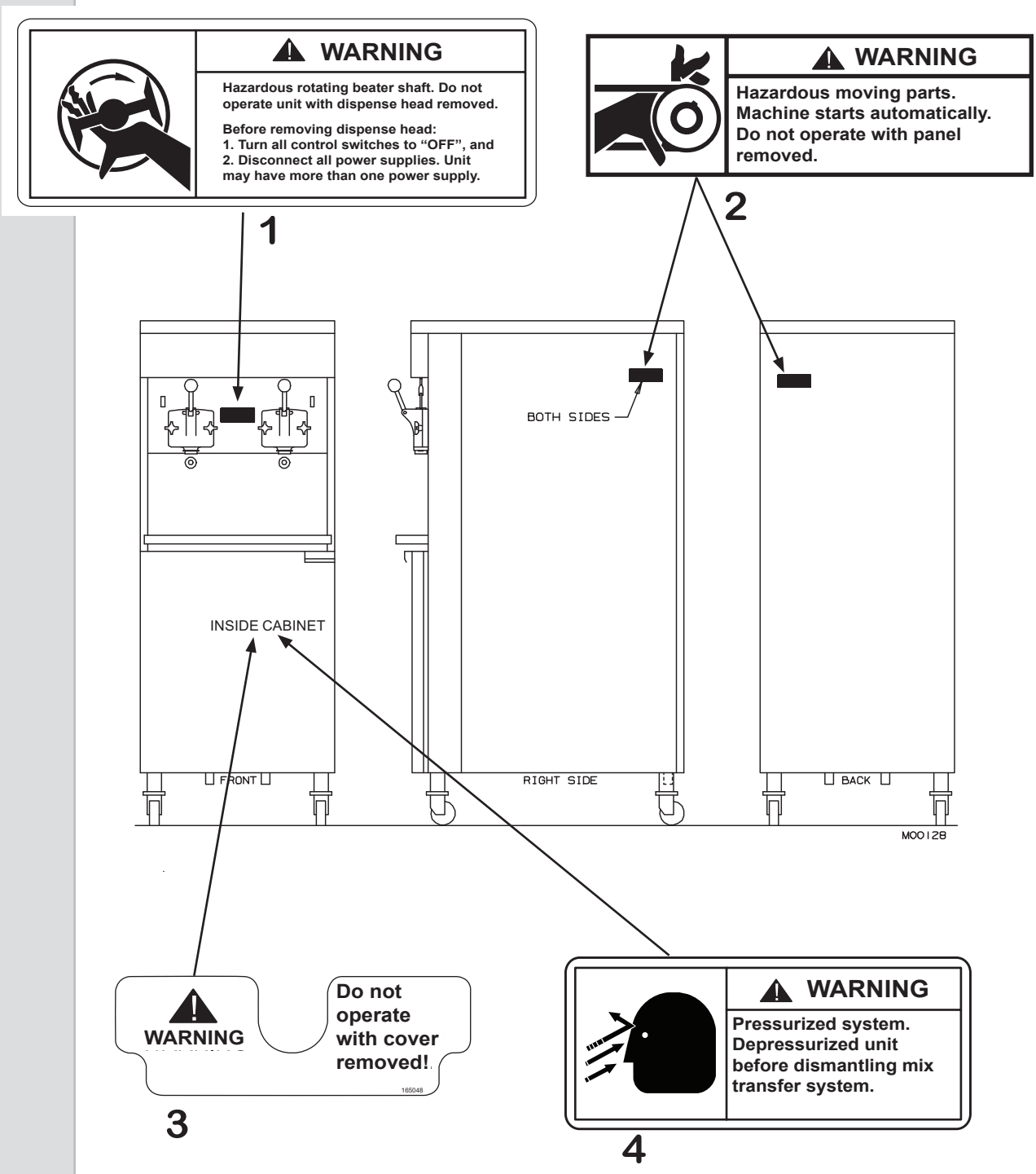


Table of Contents

Part II
Replacement Parts

*Refer to Part II Table of Contents for help with locating part numbers and illustrations.

1 Introduction

Electro Freeze

2 Note to Installer

This freezer must be installed and serviced by an *Electro Freeze* Distributor or authorized service technician in accordance with the installation instructions.

After installation the warranty registration card must be completed and returned to validate the warranty.

2.1 Uncrating and Inspection

CAUTION
Be sure to properly support the machine when removing bolts and installing legs or casters.

bottom of the freezer (figure 2-1) and install either the legs or casters (figure

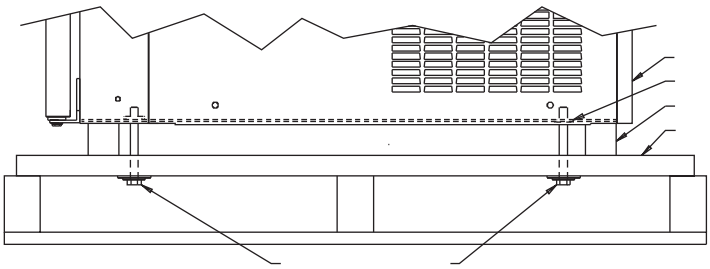
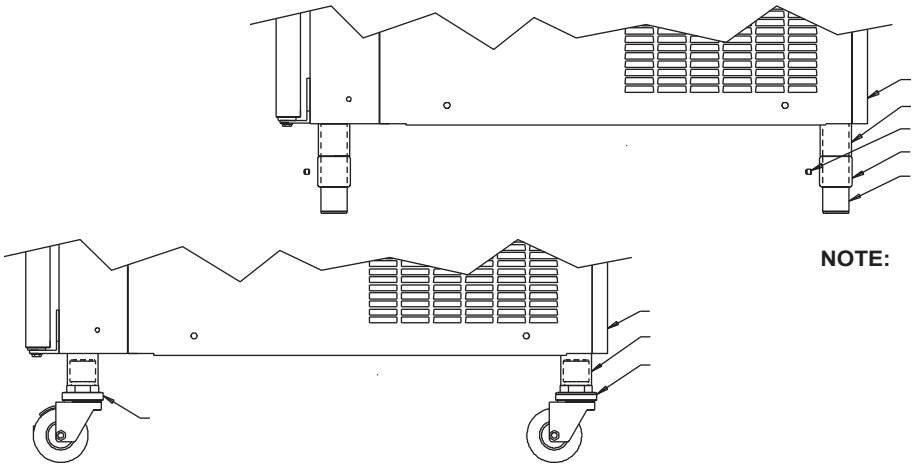


Figure 2-1 Machine Bolted to Shipping Base



NOTE:

Figure 2-2 Installing Mounting Legs or Casters

2.2 Installation

CAUTION
All materials and connections must conform to local requirements and be in compliance with the National Electrical Code.

installed on casters and have flexible

efficiency of the freezer.

6. Place the freezer in the final location

efficiency of the freezer.

2.3 Electrical Requirements

CAUTION
To prevent accidental electrical shock, a positive earth ground is required.

1. Always verify electrical specifications

   Data plate specifications will always

2.4 Electrical Connections

CAUTION
To prevent accidental electrical shock, a positive earth ground is required.

WARNING

Warning:

specifications.

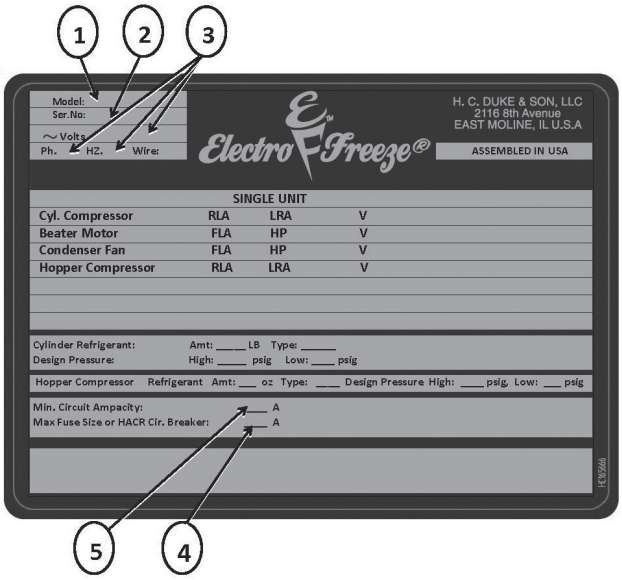
5. Use a flexible connection when

3 Specifications

3.1 Particulars

	GEN-5420
Width	
Height	
Height	
Depth	
Weight	
Compressor Cylinder (2)	
Compressor Cabinet (1)	
Beater Motor	
Refrigerant	
Charge**	
Mix Container (2)	
Cylinder (2)	

3.2 Data Plate



3.3 Reference Information

Write in Reference Information HERE!

numbers in figure 3-1.

3.4 Installation Date

3.5 Dimensions

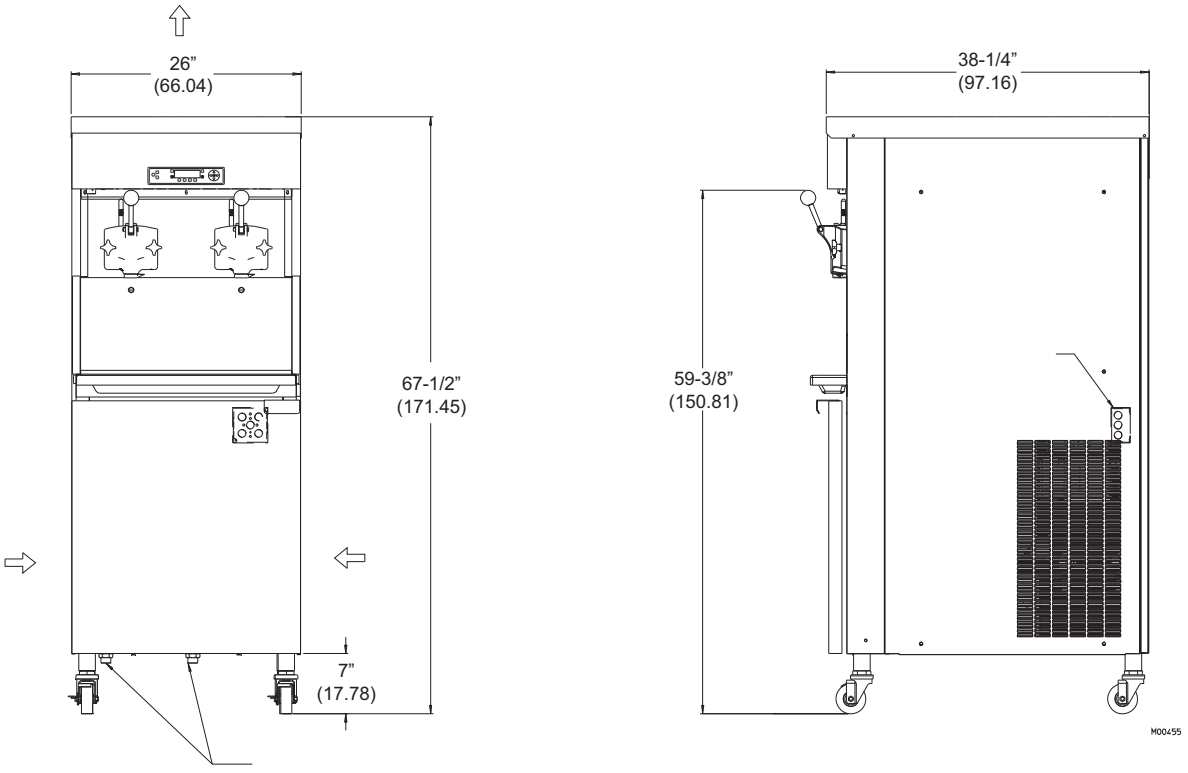
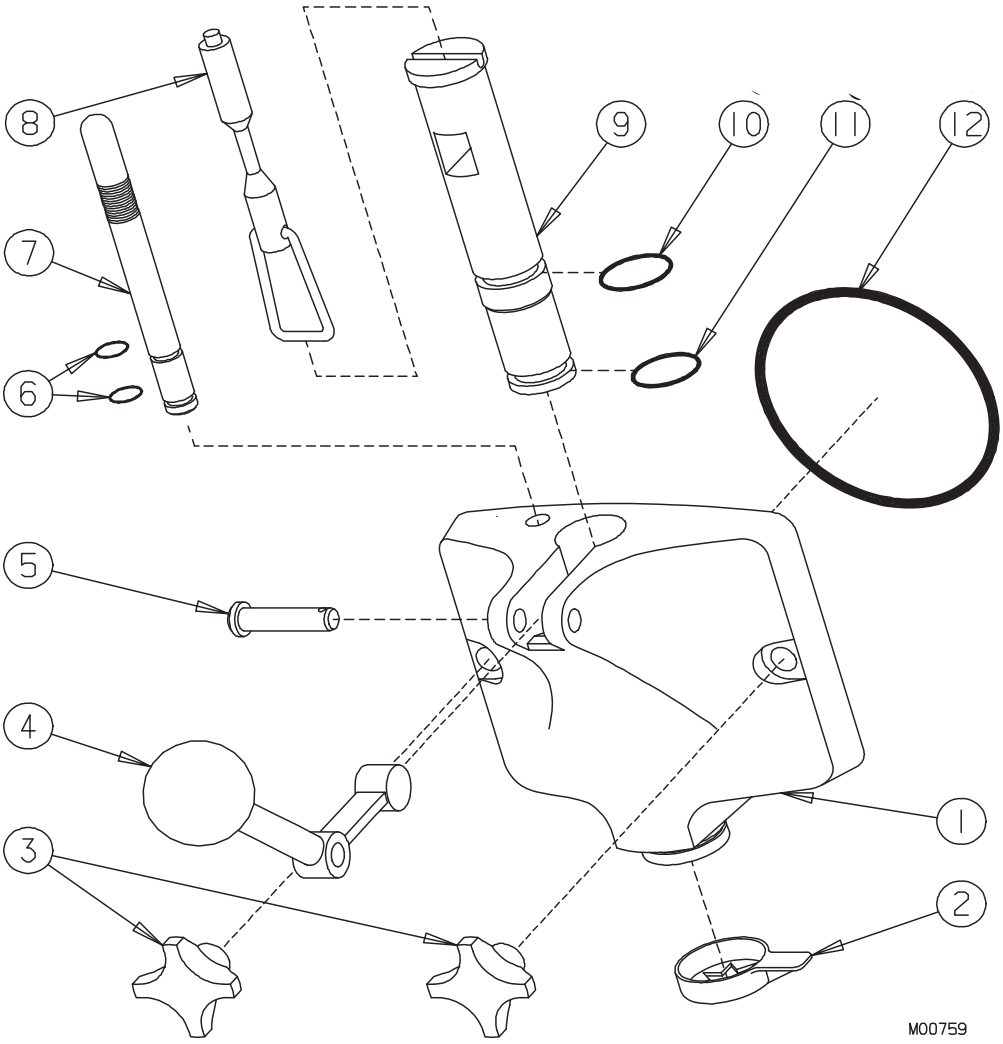


Figure 3-2 Dimensions

4 Part Names and Functions



4 Part Names and Functions (continued)

The following descriptions apply to figure 4-1. The number preceding the part name corresponds to the number in the figure.

1.) HEAD - DISPENSE:

2.) NOZZLE:

3.) KNOB - HAND:

4.) HANDLE - DISPENSE:

start and stop the flow of product

5.) PIN - HANDLE:

6.) O-RING - PLUG:

7.) PLUG - AIR BLEED:

cylinder during the filling process.

8.) ROD - PLUNGER:

9.) PLUNGER:

product to flow when open.

10.) O-RING - PLUNGER:

11.) O-RING - PLUNGER:

12.) O-RING - HEAD:

4 Part Names and Functions (continued)

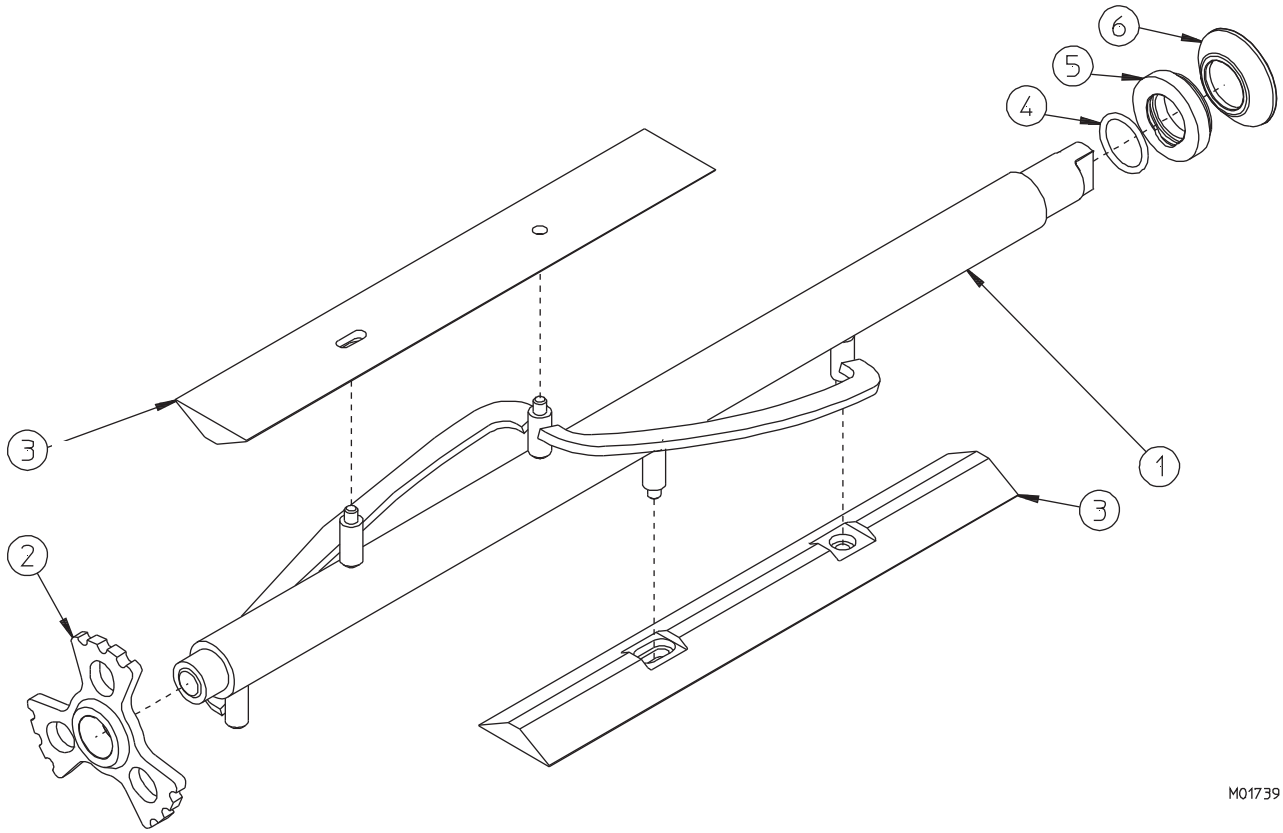


Figure 4-2 Beater Shaft Assembly

4 Part Names and Functions (continued)

The following descriptions apply to figure 4-2. The number preceding the part name corresponds to the number in the figure.

1.) SHAFT - BEATER:

2.) BUSHING - CYLINDER:

3.) BLADE - SCRAPER:

4.) O-RING - SHAFT SEAL:

5.) WASHER - SHAFT SEAL:

6.) SEAL(CUP) - BEATER SHAFT:

4 Part Names and Functions (continued)

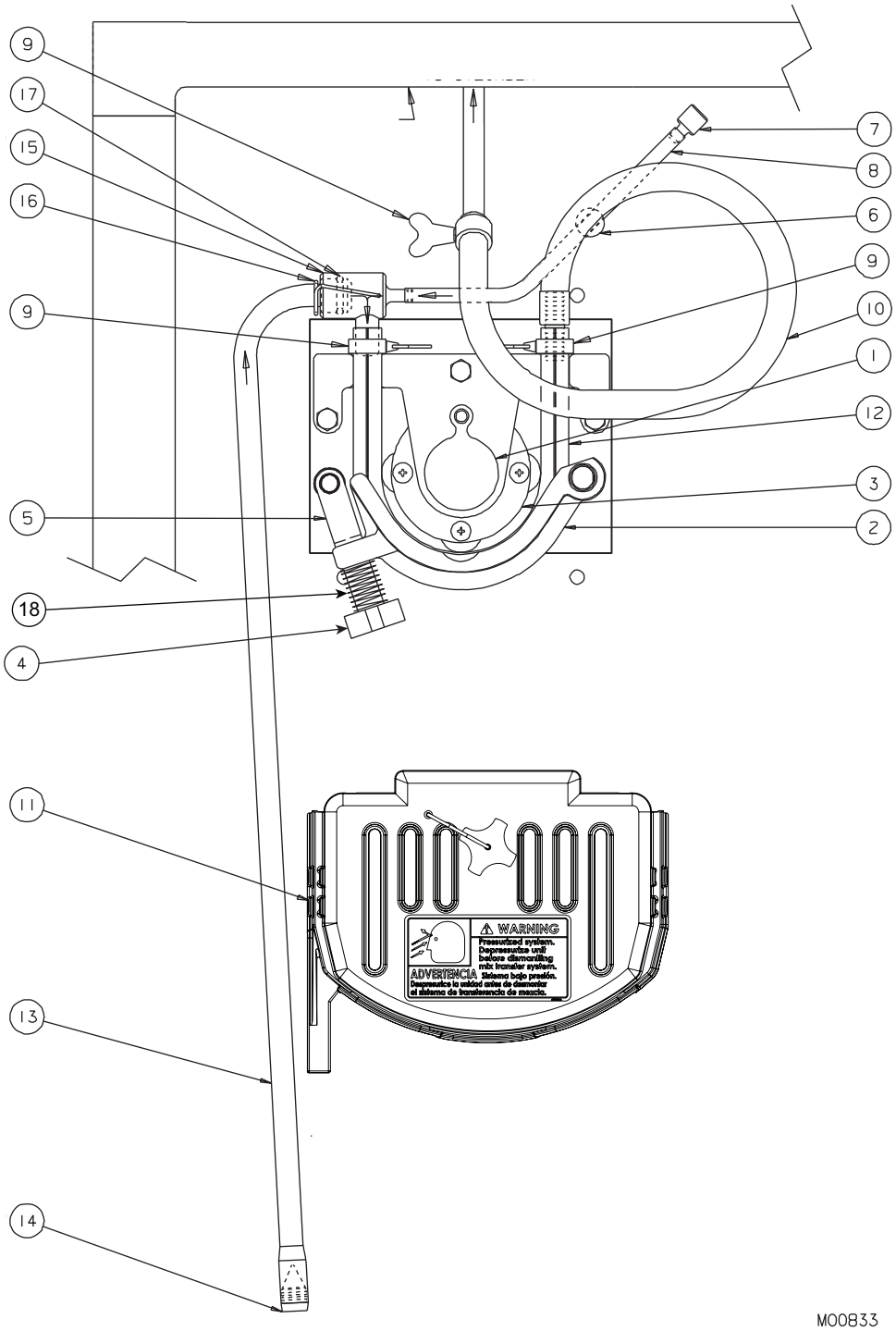


Figure 4-3 Mix Transfer System (MTS)

4 Part Names and Functions (continued)

The following descriptions apply to figure 4-3. The number preceding the part name corresponds to the number in the figure.

1.) SUPPORT - ROLLER BEARING:

2.) SHOE - ROLLER:

3.) ROLLER ASSEMBLY COMPLETE:

4.) KNOB - HAND:

5.) ARM - SWING CLAMP:

6.) RETAINER - AIR TUBE:

7.) AIR METER:

8.) TUBE - AIR:

9.) CLAMP - ASSY. SOFT HOSE 5/8":

10.) HOSE - ASSY. MIX BRAIDED:

11.) COVER - MTS:

12.) HOSE - TRANSFER RED:

13.) TUBE - ASSEMBLY MIX INLET:

14.) DUCKBILL:

15.) PORT - AIR/MIX:
Blends air and mix as it flows into

16.) CLIP - TUBE RETAINER:

17.) O-RING - MIX TUBE:

18.) SHOE - SPRING:

5 Operator Controls

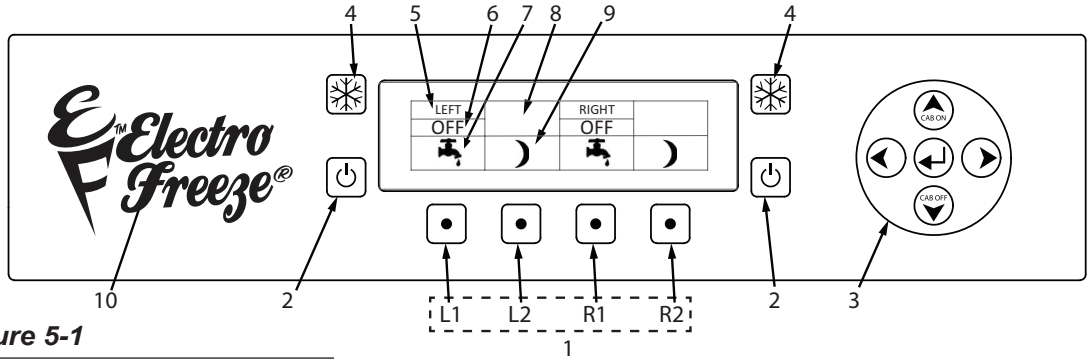


Figure 5-1

CAUTION
Test operation of the head switch prior to placing the freezer in service. See Section 11, Routine Maintenance, Monthly.

qualified personnel.

IMPORTANT
DISPENSING HEAD MUST BE INSTALLED FOR BEATER MOTOR(S) TO OPERATE.
DO NOT INTERCHANGE HEADS FROM OTHER FREEZERS.

CAUTION
THE DISPENSING HANDLE MUST BE COMPLETELY CLOSED AFTER EACH DRAW. FAILURE TO CLOSE THIS HANDLE WILL ENGAGE THE REFRIGERATION SYSTEM CAUSING A FREEZE UP AND DAMAGE TO BELTS, GEAR REDUCER, AND MOTORS COULD OCCUR.

1.Function Buttons (Four)

2. OFF Key

3. Navigation Pad (Up/Down = Cabinet ON/OFF)

4. Freeze Symbol

5 Operator Controls (continued)

5. Left or Right side Control Indicator

6. Mode of Operation Indicator

a. OFF

b. FRZ

Important: Do not use the  *freeze position with water or sanitizer in the cylinder or hopper. The freezer will be damaged.*

c. Standby

7.  Wash or Clean Mode

8. Information Window

9. Standby Indicator

10. Hidden Operator Menu Key

5 Operator Controls (continued)

12 Power Switch See Figure 5-3

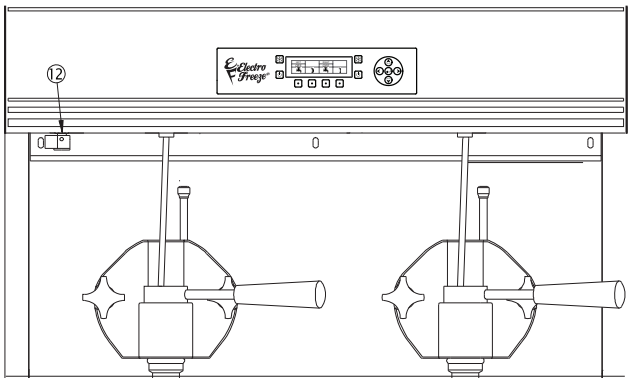


Figure 5-3

6 Operator Display Menus

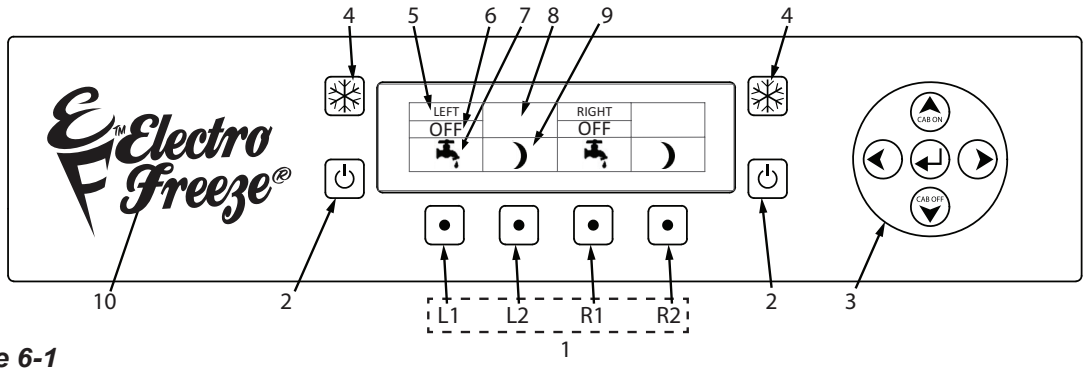


Figure 6-1

(figure 6-1).

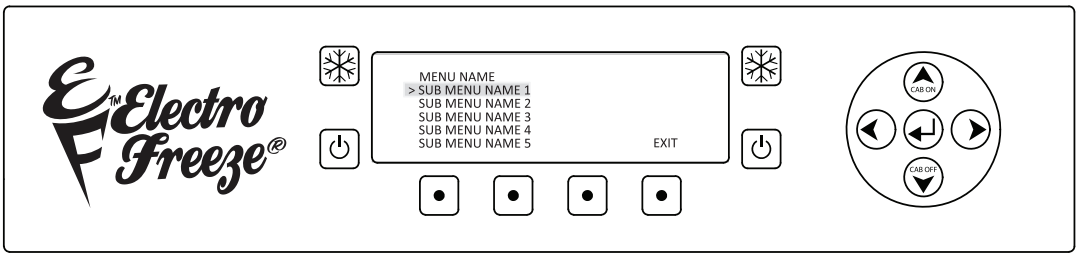


Figure 6-2

The operator menu will show up on the screen (figure 6-2). The cursor will highlight the

6 Operator Display Menus

Operator's Menu Options

-
-
-
-
-
-
-
-
-

Information Shown

6 Operator Display Menus (continued)

Statistics Cont.

Lockouts:

	Information Shown
	Y or N
	Y or N
	Y or N
	Y or N

Screen Settings

	Y or N
	Y or N
	Y or N
	Y or N

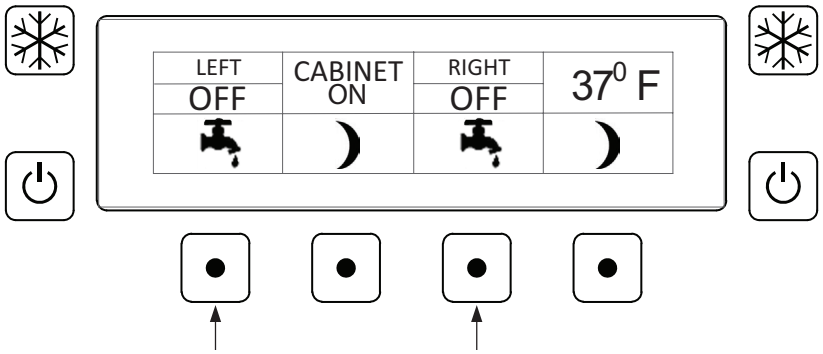
Date/Time

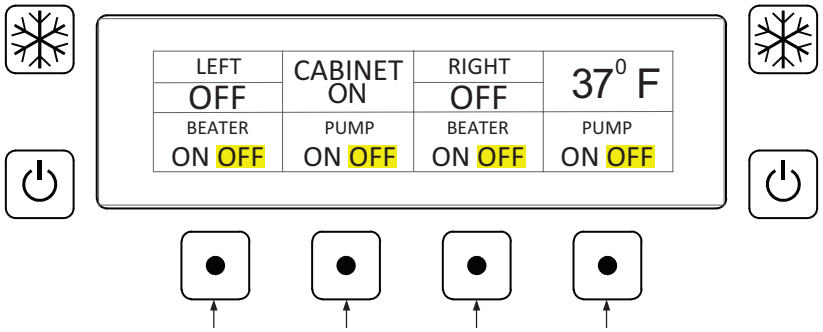
Last Clean

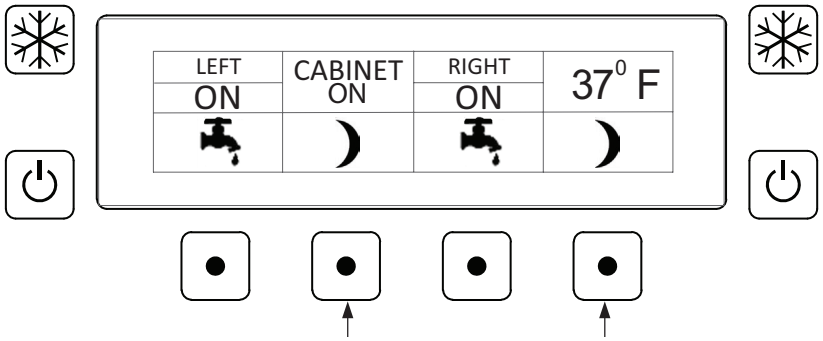
Software Versions

6 Operator Display Menus (continued)

6 is default setting







7 Disassembly and Cleaning

Safety Information

It is important that the freezer be disassembled, washed, lubricated and sanitized before operation.

CAUTION
Make sure freezer is depressurized before proceeding.

sanitizing the freezer must first wash

CAUTION
To avoid electrical shock or contact with moving parts, make sure the control pad is "OFF" and that the main power switch is "OFF".

Slowly

7.1 Cleaning Accessories

1.) **HC158004 BRUSH:**

2.) **HC158019 BRUSH:**

3.) **HC158018 BRUSH:**

4.) **HC158026 BRUSH:**

5.) **HC158037 BRUSH:**

6.) **HC169374 TOOL - O-RING REMOVAL:**

7.) **HC158054A LUBRICANT - LUBRI-FILM PLUS:**

8.) **HC196103 BOTTLE, WASH:**
Used to flush the hose cavity, roller

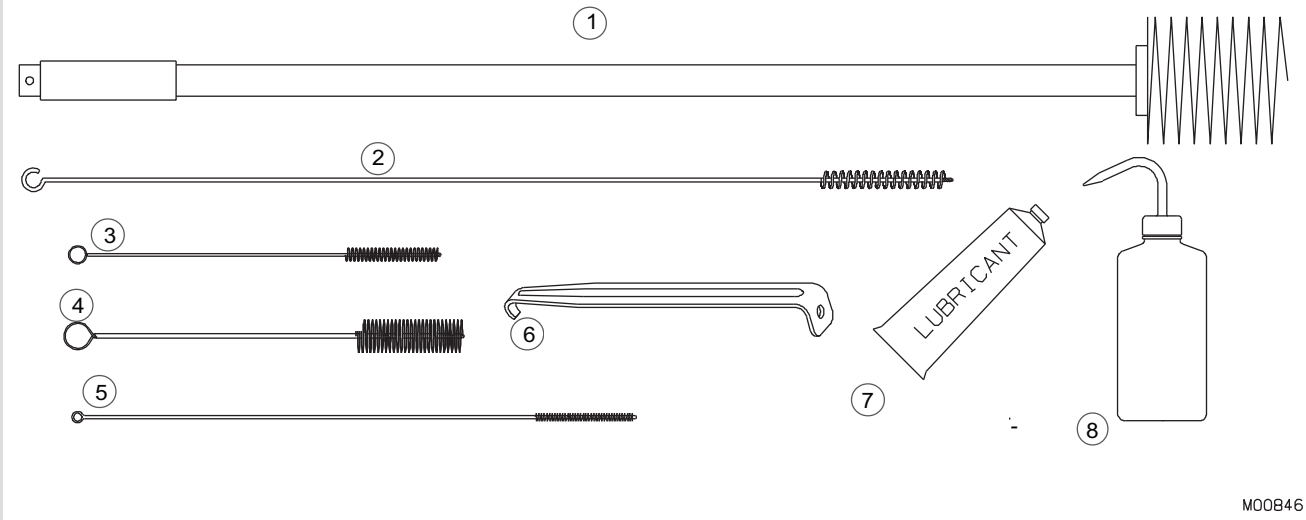


Figure 7-1 Cleaning Accessories

7.2 Disassembly Instructions

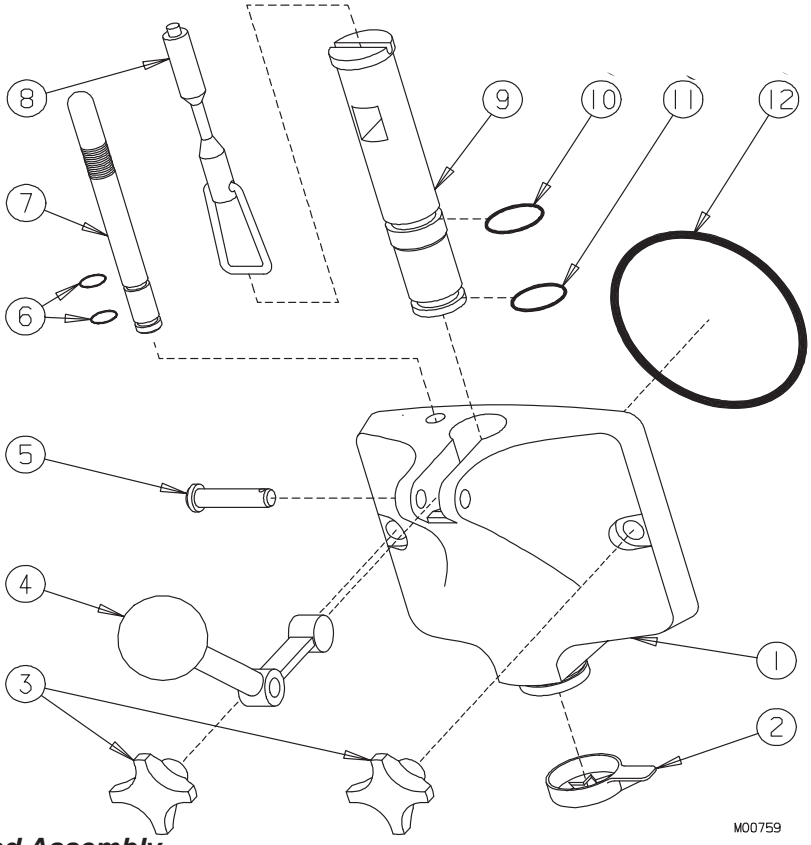


Figure 7-2 Head Assembly

CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

CAUTION

Make sure freezer is depressurized before proceeding.

CAUTION

To prevent bacteria growth, remove ALL O-rings when disassembling for cleaning. Failure to do so could create a health hazard.

2. Remove the plunger rod (8, figure 7-2)

– continued

7.2 Disassembly Instructions (continued)

9. Remove the cup seal (figure 7-3) and

(figure 6-4):

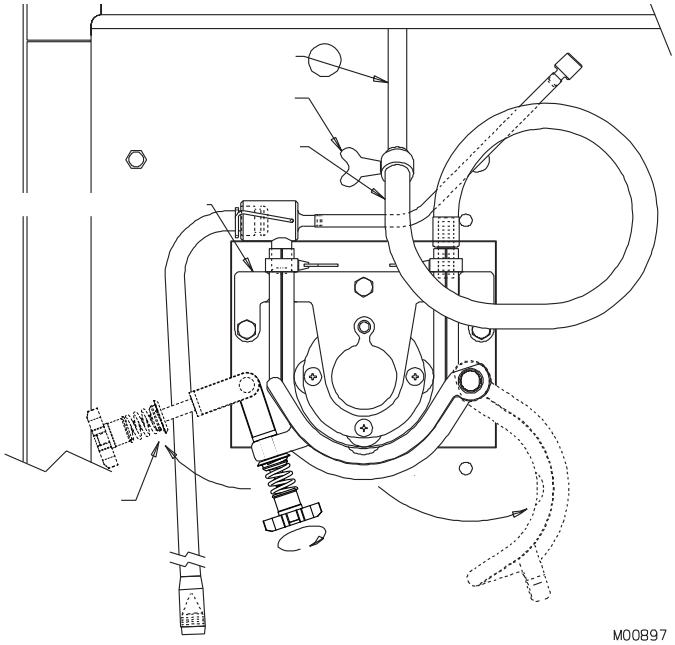


Figure 7-4 MTS

assemblies as shown in figure 7-5.

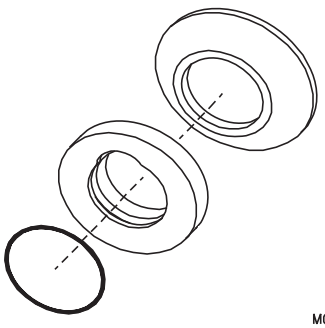


Figure 7-3 Shaft Seal

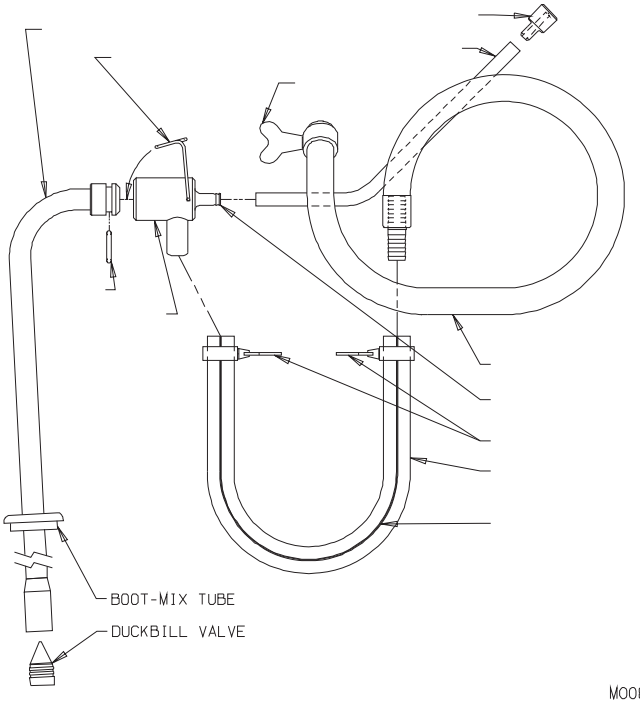


Figure 7-5 MTS Hose Assembly

7.3 Cleaning Instructions

CAUTION
To prevent bacteria growth, remove all O-rings when cleaning. Failure to do so could create a health hazard.

NOTE:

Important:
Do not use unapproved sanitizer or laundry bleach. These materials may contain high concentrations of chlorine and will chemically attack freezer components.

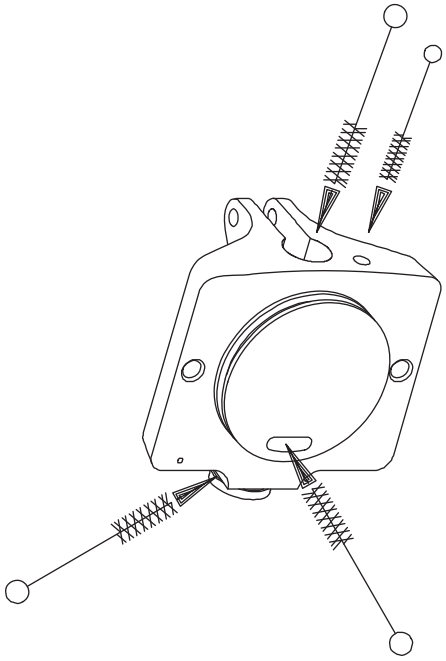


Figure 7-6 Clean head ports and openings with brush.

CAUTION
Electrical shock hazard. Do not splash water on switches or allow water to flow onto electrical components inside the machine.

NOTE

mix ports, as shown in figure 7-6.

as shown in figure 7-7.

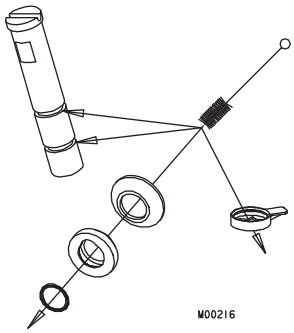


Figure 7-7 Clean O-ring grooves, seal and nozzle with brush.

– continued

7.3 Cleaning Instructions (continued)

blade pin holes as shown in figure

Important:
Do not leave parts in sanitizer for more than 15 minutes.

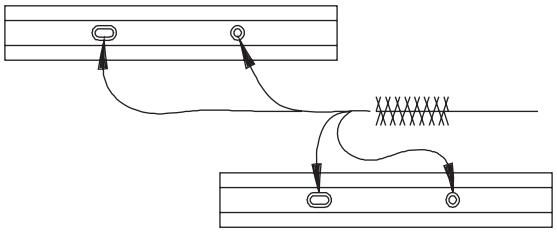


Figure 7-8 Clean beater shaft pin holes.

cylinders as shown in figure 6-9, the

tube, as shown in figure 7-10.

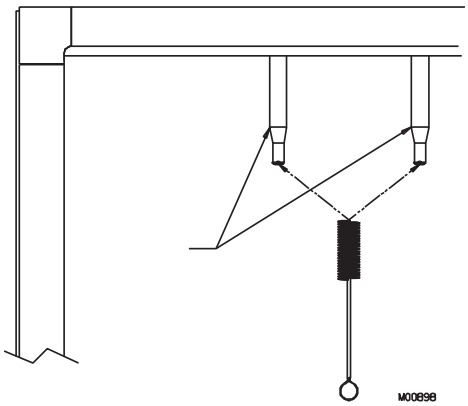


Figure 7-9 Brush inside of cylinder mix feed tubes.

Replace worn brushes.

Use only Electro Freeze original or authorized replacement parts.

See Accessories parts list in Part II of this Manual to order new brushes.

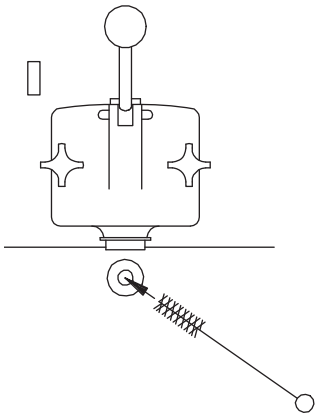


Figure 7-10 Brush inside of drain tube.

7.3.1 Cleaning and Lubricating - MTS Assembly

NOTE:

Do not interchange the shoe with any other MTS shoes.

Important:

Do not let shoe sit in sanitizing solution or water. Corrosion will occur in bore.

See figure 6-11.

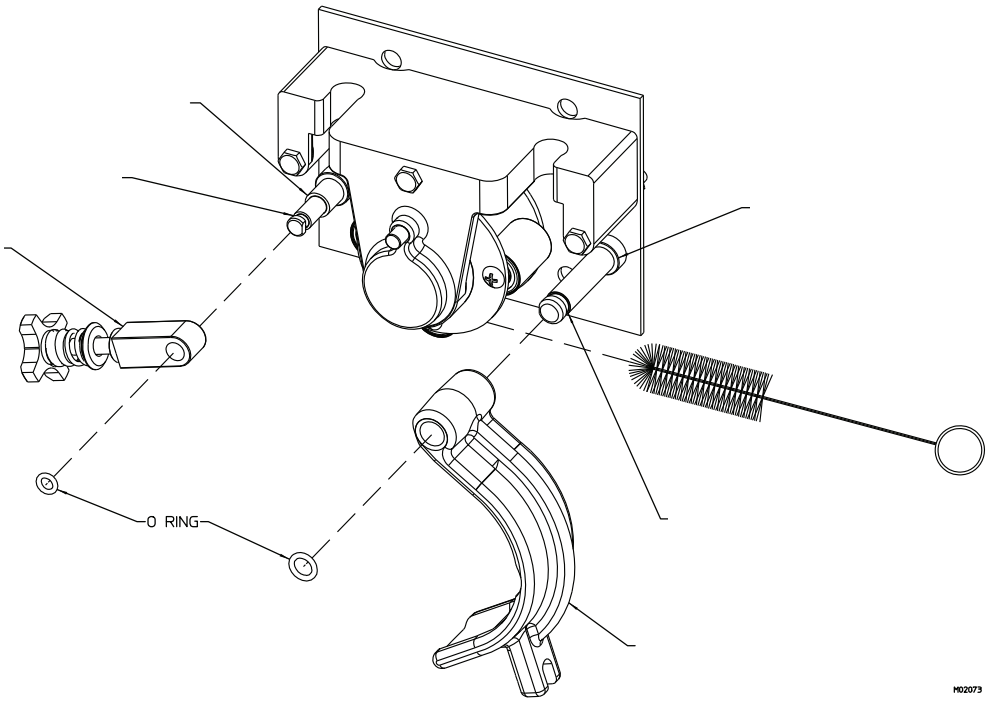


Figure 7-11

8 Assembly

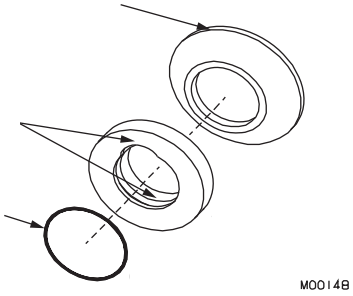


Figure 8-1 Shaft Seal Assembly

freezer must first wash and sanitize their

CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

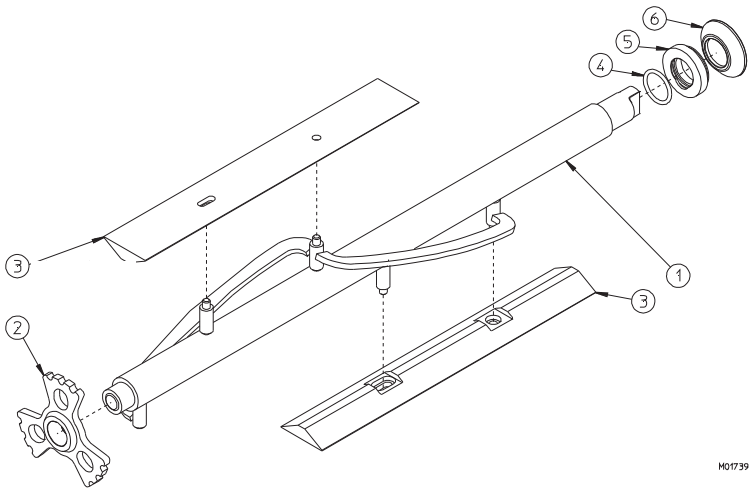
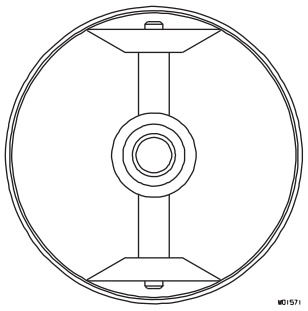


Figure 8-2 Beater Shaft Assembly

washer (see figure 8-1). Apply a light

figure 8-2.

PROPER BLADE INSTALLATION IS WITH FLAT SIDE AGAINST CYLINDER WALL.



are installed properly (see figure 8-3).

Figure 8-3 Scraper Blade Installation

– continued

8 Assembly (continued)

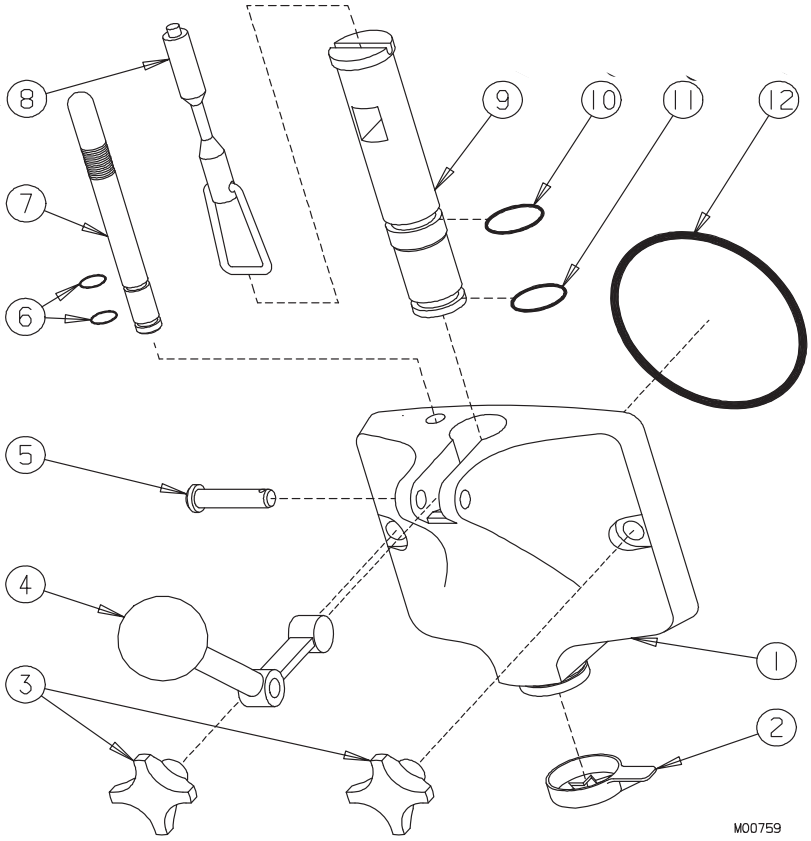


Figure 8-4 Head Assembly

5. (Refer to figure 8-4.) Install and then

Important:
Excessive force will damage the head. Do not use tools to tighten.

knobs, finger tight only. Repeat for

– continued

Important:
ALWAYS make sure the cylinder bushing is positioned on the beater shaft properly. Operating the freezer with a missing or badly worn bushing will damage the beater and cylinder.

8 Assembly (continued)

Figure 8-6 Attaching Braided Hose

Figure 8-5 MTS Hose Assembly

Important:
Always inspect the transfer hose during assembly for wear. Do not use tools or sharp objects to remove hose.

Important:
Use original Electro Freeze transfer hose only. Your freezer will not operate properly with any other type of hose. Never twist the transfer hose when assembling or installing.

Important:
Replace transfer hose at least every 30 days or as needed sooner.

as shown in figures 8-5 and 7-6. The

as shown in figure 8-6.

16. Install mix tube boot with flat side first,

– continued

8 Assembly (continued)

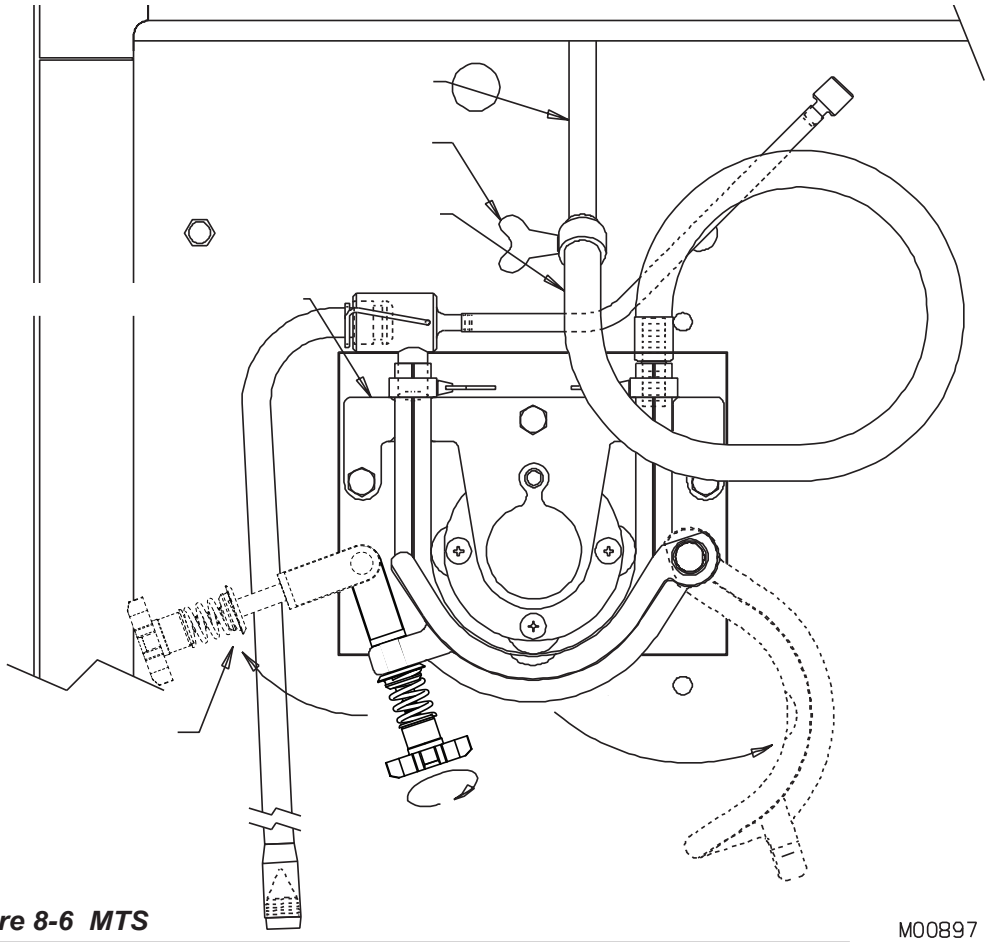


Figure 8-6 MTS M00897

18. Refer to figure 8-7. Install the MTS hose assembly by first placing the support, as shown in figure 8-7.

Important:
Do not twist the hose assembly while installing.

figure 8-8. Hose clamps should be

Important:
The MTS will not operate unless the cover is installed and secured by the hand knob.

– continued

8 Assembly (continued)

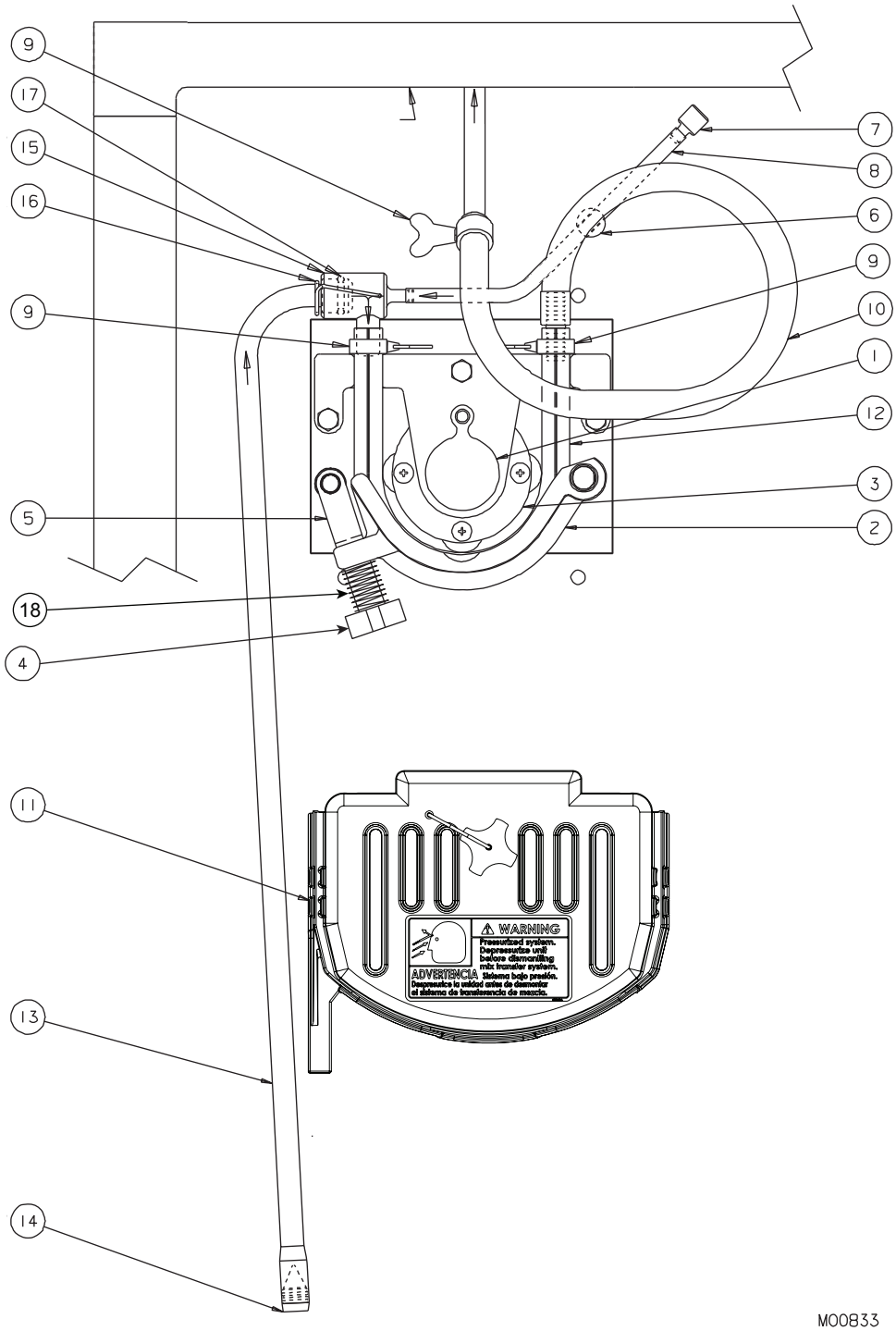


Figure 8-8 MTS

9 Start-up Instructions

9.1 Sanitizing

CAUTION
Mix Transfer System will be pressurized during operation. Make sure all components and fasteners are secure before start-up.

IMPORTANT:
Do not use unapproved sanitizers or laundry bleach. These materials may contain high concentrations of chlorine and will chemically attack freezer components.

CAUTION
To prevent bacteria growth, use only approved sanitizers to sanitize the machine. Sanitizing must be done just prior to starting the machine. Failure to do so could create a health hazard.

NOTE:

Important:
Never let the sanitizer remain in the freezer for more than 15 minutes.

9. When sanitizer flows out the bottom of

Important:
DO NOT use the "FREEZE" setting with sanitizer in the cylinder. The freezer will be damaged.

—continued

9.1 Sanitizing (continued)

NOTE

9.2 Priming

and sets the proper overrun for the first cylinder of product.

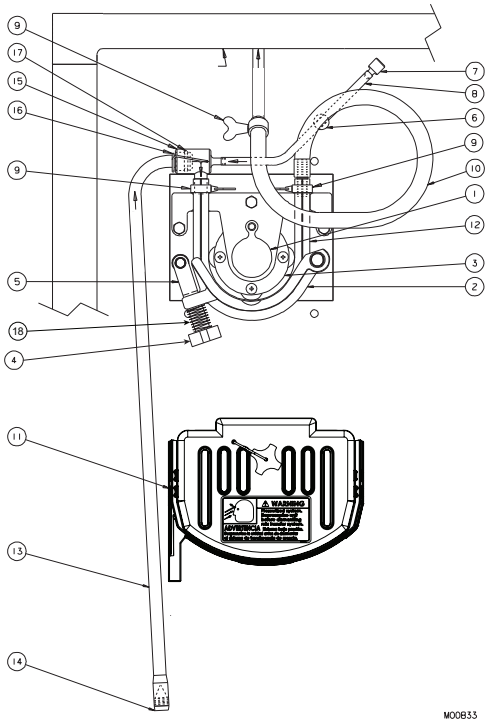


Figure 9-1

Important:
Failure to completely remove sanitizer or water from the freezing cylinder before placing in "FREEZE" will cause the scraper blades to break and damage the freezer.

12. Allow the MTS to fill the cylinder until mix flows from the bottom of the air

bleed plugs. Wait for the MTS to fill

10 Closing Procedures

10.1 Draining Product

3. In the cabinet below (see figure 9-1).

container and fill with cold water. Turn the MTS to fill and pressurize the

— *continued*

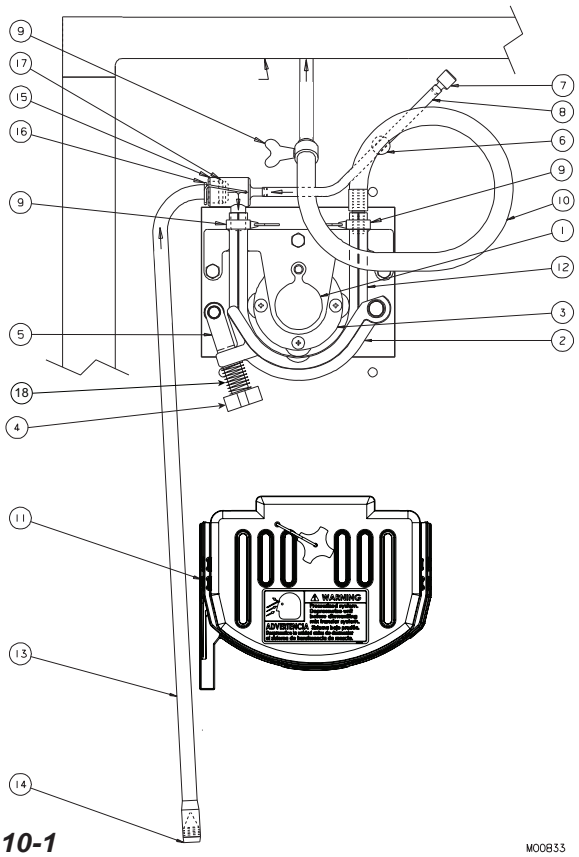


Figure 10-1

10.1 Draining Product (continued)

quits flowing, place the MTS pump

CAUTION
Make sure the freezer is depressurized before proceeding.

sanitizer flows out the bottom of the

IMPORTANT:
Do NOT use the "FREEZE" position with sanitizer or water in the cylinder. The freezer will be damaged.

11 Soft Serve Information

11.1 Overrun

and texture of the finished product. The
overrun.

become 15 gallons of finished product.

fluffy product lacking the cold, refreshing

and fill with liquid product to the top.

e. Use the following formula to figure

"Weight of liquid mix minus weight of frozen product/divided by the frozen weight."

Example:

Weight of one pint of liquid mix = 18 oz.

Weight of one pint frozen product = 12 oz.

Difference = 6 oz.

6.0 oz. divided by 12 oz. = .5

.5 x 100 = 50% overrun

11.2 Overrun Adjustment

NOTE: Each person who operates the freezer should know what overrun is and how to calculate it.

each having a different size orifice. The

when you first start up the machine.

The orifice or hole in this air meter must

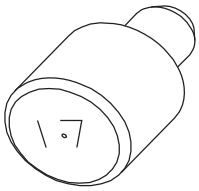


Figure 11-1 Air Meter

11.3 Rerun

NOTE Rerun product is unable to accept the same amount of air as fresh product. As a result, the quality will be affected and product may appear grainy and icy.

12 Routine Maintenance

Electro Freeze

DAILY

CAUTION
To prevent bacteria growth, remove all O-rings when cleaning. Failure to do so could create a health hazard.

loose fitting.

AS NEEDED

CAUTION
To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

Important:
If the transfer hose is assembled improperly or replacement has been neglected, it may be necessary to clean mix from the MTS due to hose failure.

If this happens frequently the MTS should be removed for complete cleaning.

CAUTION
Make sure the freezer is depressurized before proceeding.

CAUTION
To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

— continued

12 Routine Maintenance (continued)

AS NEEDED (continued)

CAUTION
Make sure the freezer is depressurized before proceeding.

flush the hose cavity and roller

figure 11-1.

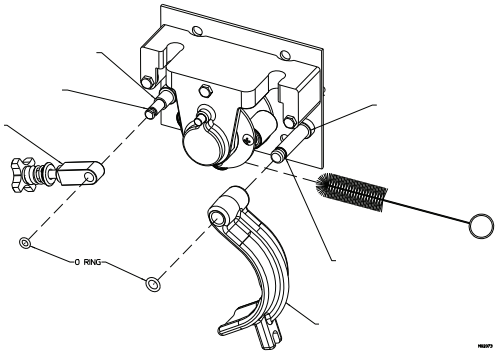
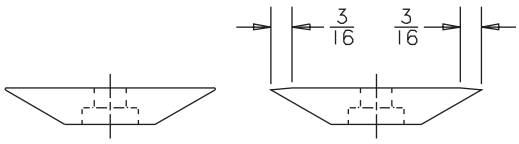
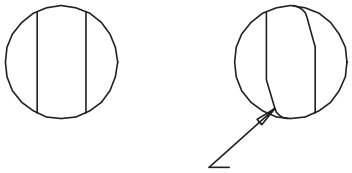


Figure 11-1

WEEKLY



Replace blades if worn 3/16" or more.



12 Routine Maintenance (continued)

MONTHLY

A. Testing the Head Switch

Proper Operation

proper operation of this switch be verified

CAUTION
To avoid electrical shock or contact with moving parts, make sure the control pad is "OFF" and that the power switch is "OFF".

Mechanical Hazard

DO NOT

CAUTION
Moving parts. Do not place hands in the freezing cylinder. Severe personal injury could result.

NOTE: Do this test for each freezing cylinder.

B. Water Condenser

floor drain. Ideal water temperatures

— continued

12 Routine Maintenance (continued)

MONTHLY (continued)

C. MTS Cover Switch

switch be verified on a routine basis. Use

DO NOT
fingers or objects into roller cavity

CAUTION
Make sure system is depressurized before proceeding.

DO NOT

CAUTION
DO NOT place hands near the MTS rollers. Severe personal injury could result.

NOT

D. Replace the Mix Transfer Hose

CAUTION
Make sure the freezer is depressurized before proceeding.

CAUTION
To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

QUARTERLY

A. Air Condenser.

Important:
Never use a screwdriver or sharp object to clean between fins.

B. Refrigeration System

an air condenser. The condenser fins

WARNING!
Failure to properly maintain/clean your air condenser can cause premature compressor failure. Compressor failure due to improper condenser care will void the compressor warranty.

12 Routine Maintenance (continued)

1500 HOURS OF OPERATION OR 6 MONTHS

whichever occurs first.

SEMI-ANNUALLY

5000 HOURS OF OPERATION OR 1 YEAR

first.

ANNUALLY

CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power source is disconnected. Some freezers have more than one disconnect switch.

and flush clean to remove scale and

12 Routine Maintenance (continued)

Winter Storage

6. On air-cooled freezers, have condenser fins cleaned by an authorized

Important
The water valve must be opened in order to blow out the condenser. Failure to purge the freezer of water can result in severe damage to the cooling system. Call your Electro Freeze Distributor for service.

USE ONLY ORIGINAL OR AUTHORIZED REPLACEMENT PARTS WITH THIS FREEZER.

Electro Freeze
Electro Freeze
(309) 755-4553 , (800) 755-4545 , FAX (309) 755-9858,
E-mail - service@electrofreeze.com.

13 Troubleshooting Tables

SAFETY

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT PERSONAL SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY. DO NOT ATTEMPT TO CONTINUE UNTIL THE SAFETY PRECAUTIONS ARE THOROUGHLY UNDERSTOOD.

CAUTION

All maintenance adjustments must be done by an Electro Freeze Distributor or authorized service technician.

CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

Important:

Some refrigerants are hazardous to the earth's atmosphere. To protect our environment, use a refrigerant recovery/recycling unit when removing refrigerant from the system.

13 Troubleshooting Tables (continued)

PROBLEM	PROBABLE CAUSE	REMEDY
Unit does not operate. 		
Mix or water leaking from drain tube to drip tray. 		
Mix leaking at dispensing head. 		
Dispensed product too soft. (Product temperature above 19°F)	flow.	

13 Troubleshooting Tables (continued)

PROBLEM	PROBABLE CAUSE	REMEDY
Product dispenses slowly out of dispensing head. 		
Dispensed product too hard.		
Freezer runs continually and product continues to get colder.		

13 Troubleshooting Tables (continued)

PROBLEM	PROBABLE CAUSE	REMEDY
Poor or slow product recovery.	flow – high ambient temperature.	
Compressor does not operate or operates improperly.		
Beater motor does not operate.		
Compressor and beater motor operates only when dispensing.		

13 Troubleshooting Tables (continued)

PROBLEM	PROBABLE CAUSE	REMEDY
Compressor and beater motor do not operate when dispensing.		
Cabinet too cold. (below 35°F [1.7°C])		
Mix sours in cabinet.		

13.1 MTS Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Mix leaks out of MTS.		
Mix transfer system (MTS) will not operate.		
MTS will not shut off.		
MTS cycles on and off without dispensing.		
MTS will not prime.	Insufficient supply of mix.	

13.1 MTS Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Mix pickup tube loses prime.		
No air (overrun).		
Too much air, overrun too high – popping problems.		
Mix shoots out air meter.		

Keep your freezer in excellent condition — always contact your Electro Freeze Distributor for replacement parts and maintenance scheduling

QUALITY PARTS
PROTECT
YOUR
INVESTMENT

NOTE: Contact your authorized Electro Freeze Distributor for instructions prior to warranty compressor replacement.

14 VQM Error Codes

Error Code	Description/Action	Probable Cause	Remedy
Main Comm			
NO Comm.			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
CYL Rfg.		efficiency	compressor efficiency.

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
CYL Rfg.			ensure it is within specification, 14. Recover refrigerant, change filter
Cabinet Rfg			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Cabinet Rfg			ensure it is within specification, 10. Recover refrigerant, change filter
Bulb Temp.			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Cabinet Temp.			
Head Switch			
Motor OVLD			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Motor OVLD			
Comp. Low PSI			3. Confirm Low pressure control is confirm suction pressure is above cut-

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Comp. High PSI			4. Confirm High pressure control is confirm high side pressure is below system, change the refrigerant filter/ system, change the refrigerant filter/

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Clock Error			
Power Fail			
Spigot			
C Spigot			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Low Left Side			
Pump HI PSI			
Pump Low PSI			

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Pump Low PSI			
Pump Cover			3. Test switch to confirm and replace

14 VQM Error Codes (continued)

Error Code	Description/Action	Probable Cause	Remedy
Main P.C. Board Heartbeat L.E.D not blinking/ U.I. Not Energizing			
the problem has been rectified.			

Keep your freezer in excellent condition — always contact your Electro Freeze Distributor for replacement parts and maintenance scheduling

QUALITY PARTS
PROTECT
YOUR
INVESTMENT

NOTE: Contact your authorized Electro Freeze Distributor for instructions prior to warranty compressor replacement.

Electro Freeze®

REPLACEMENT PARTS MANUAL

with Illustrations

SOFT SERVE FREEZER

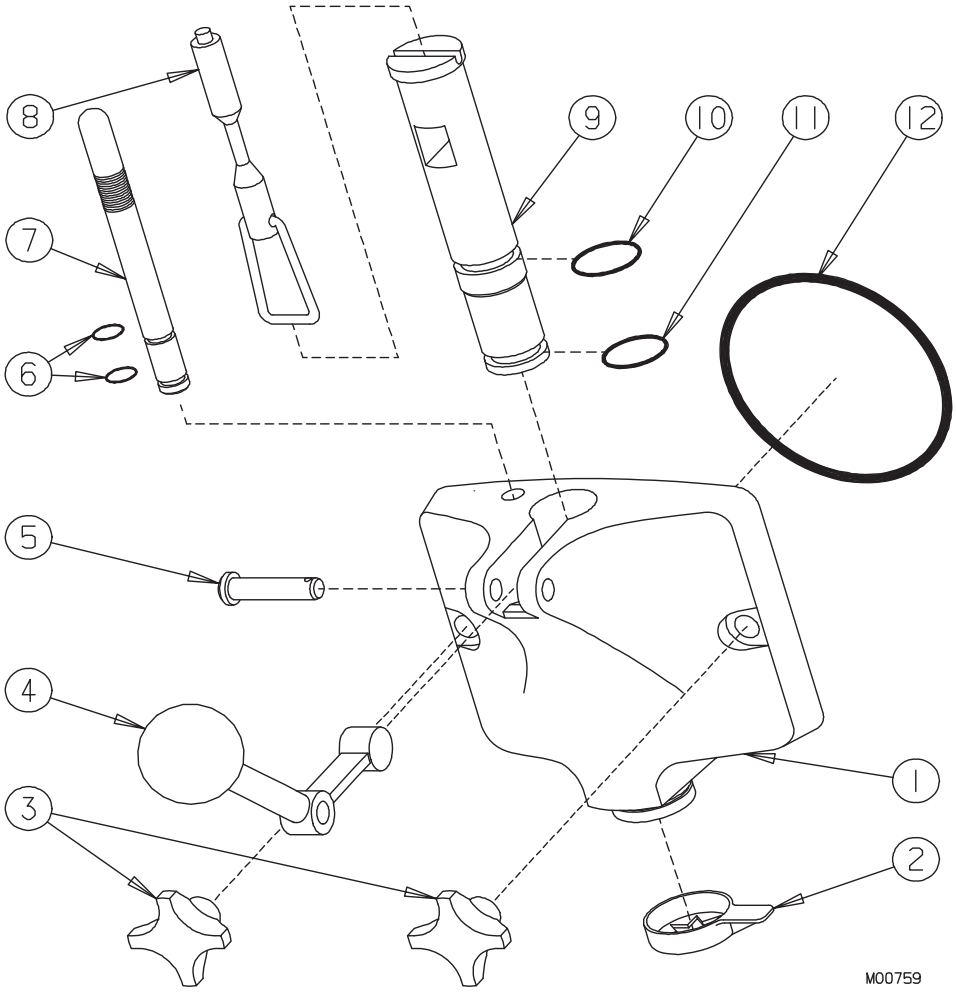
Model GEN-5420

best fits the function of the part. The

to find the correct part number and

Part II
Replacement Parts

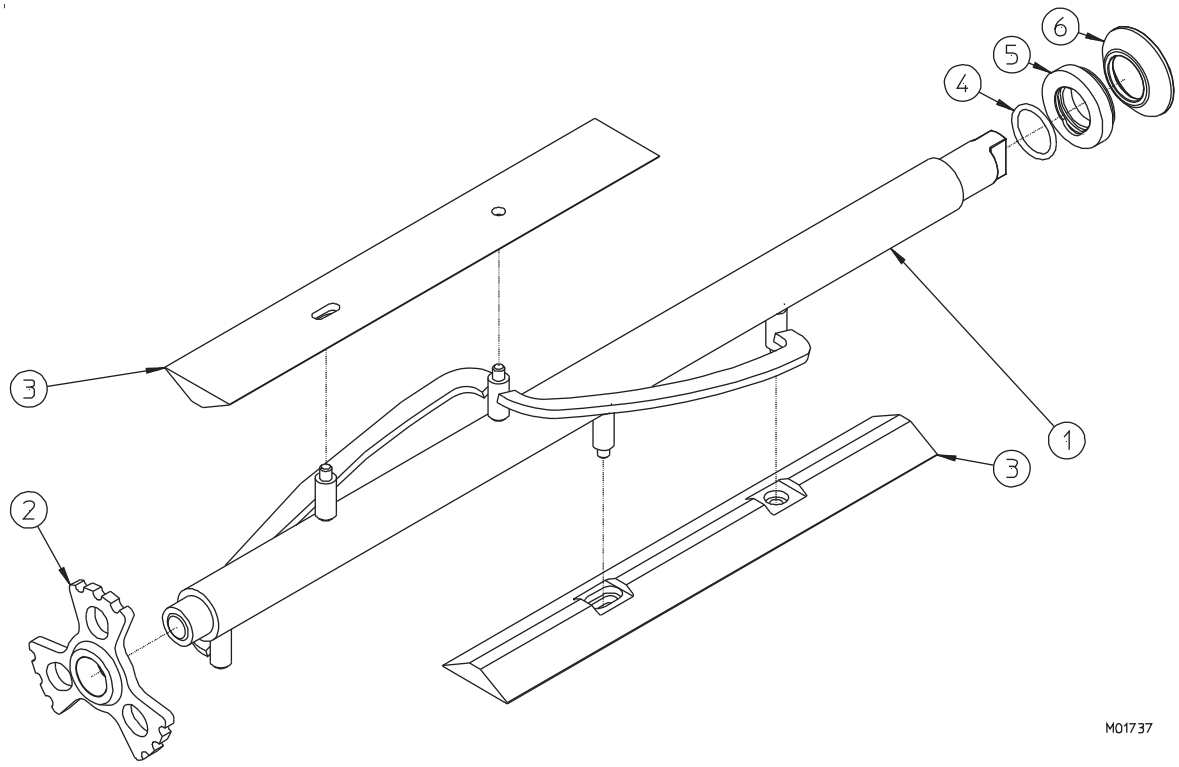
Figure 1 Head Assembly



Item	Part No.	Description

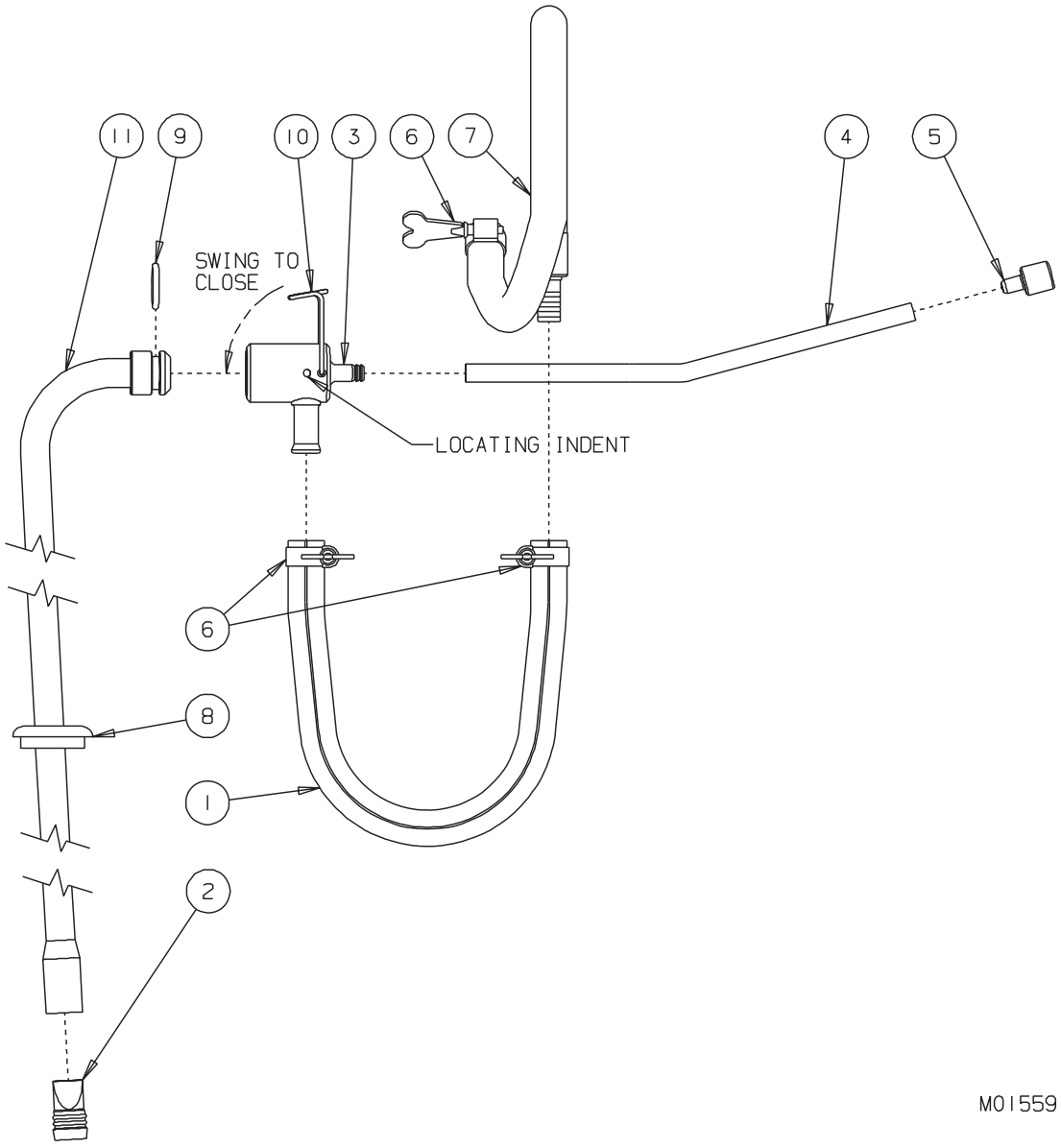
Not Shown:

Figure 2 Beater Shaft Assembly



Item	Part No.	Description

Figure 3 MTS—RMT Hose Assembly



Item	Part No.	Description

Figure 4 1Ph Mix Transfer System - RMT (Breakdown)

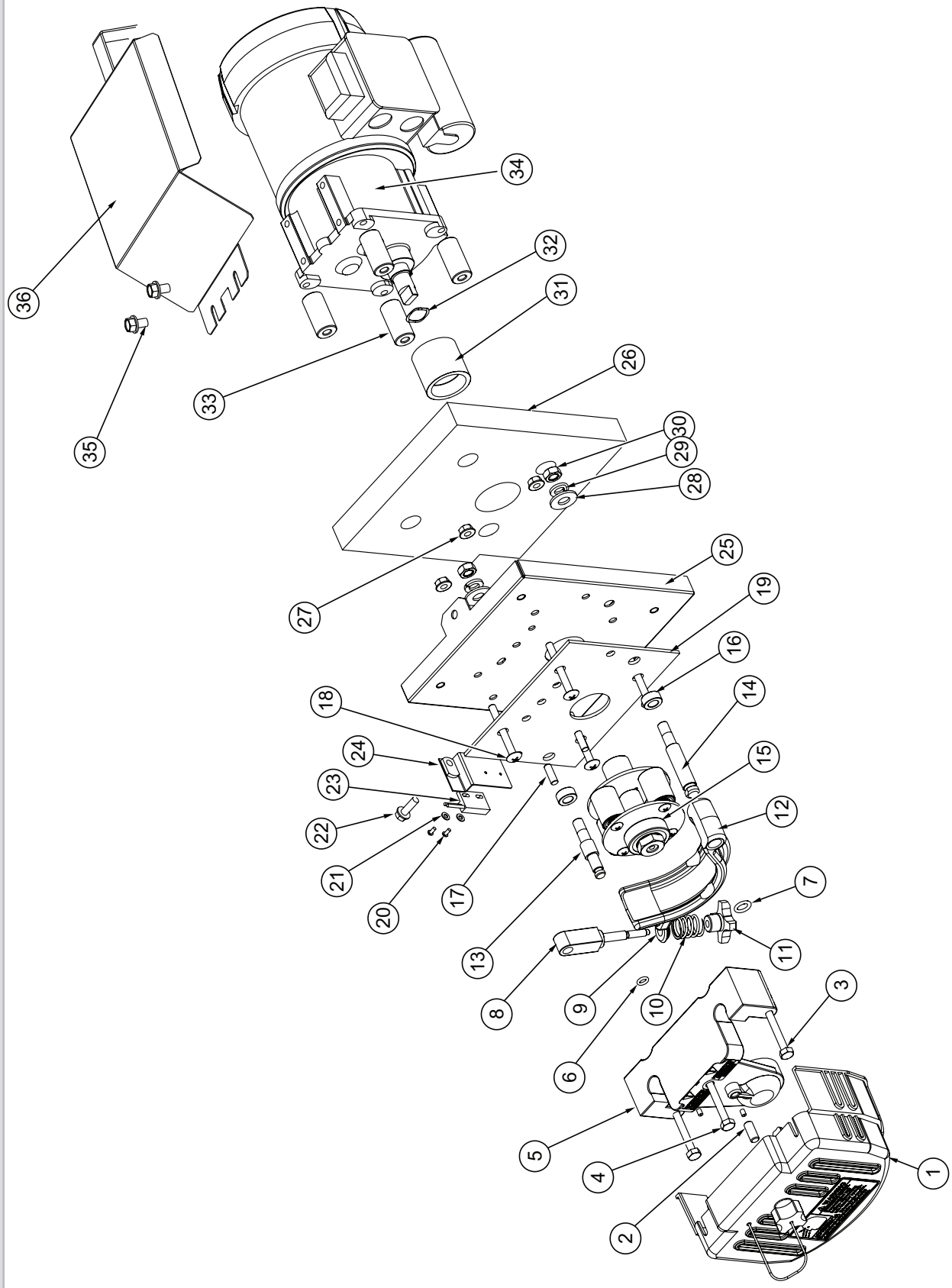


Figure 4 1Ph Mix Transfer System - RMT (Parts)

Item	Part No.	Description

Figure 5 3Ph Mix Transfer System - RMT (Breakdown)

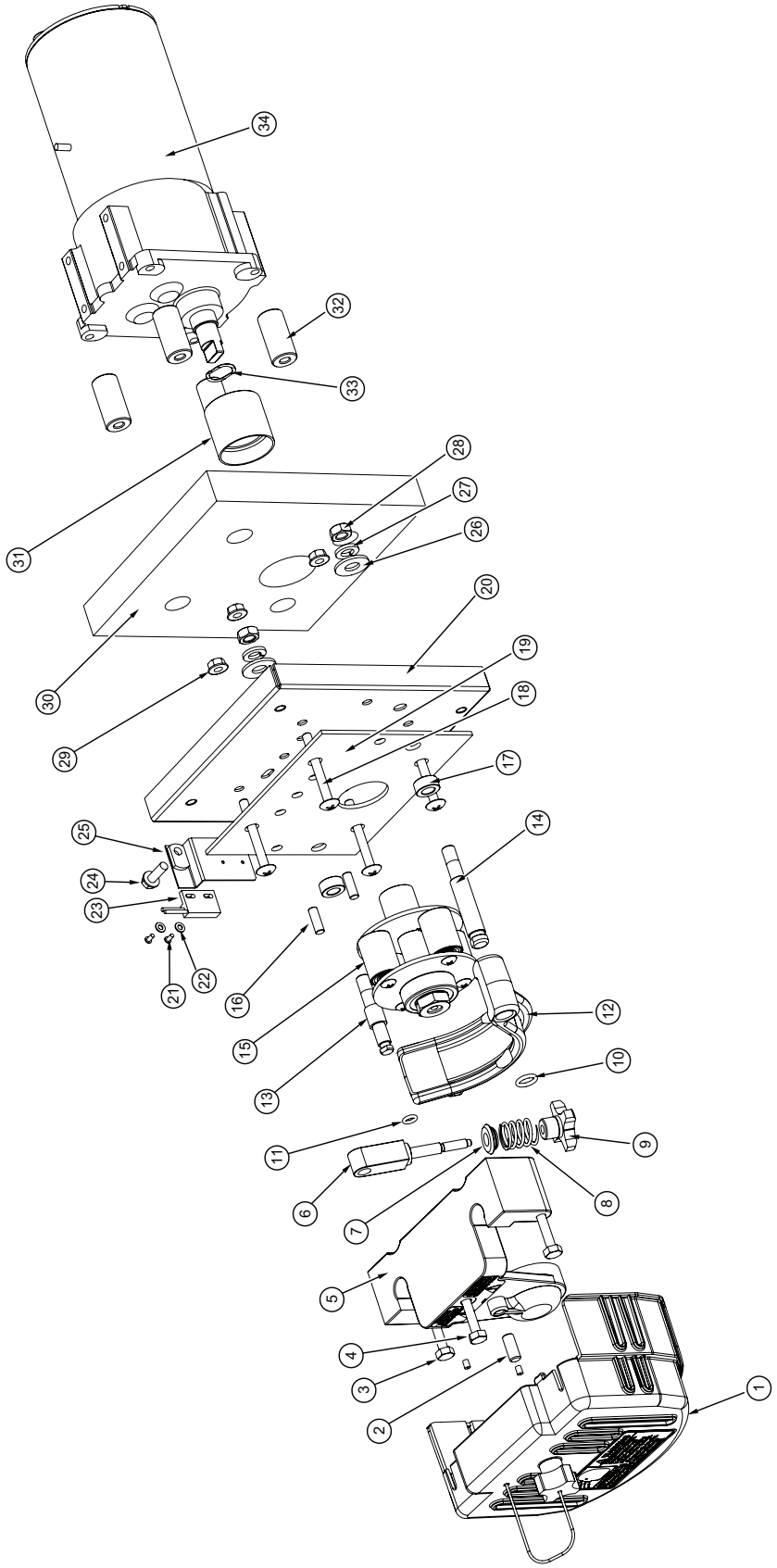
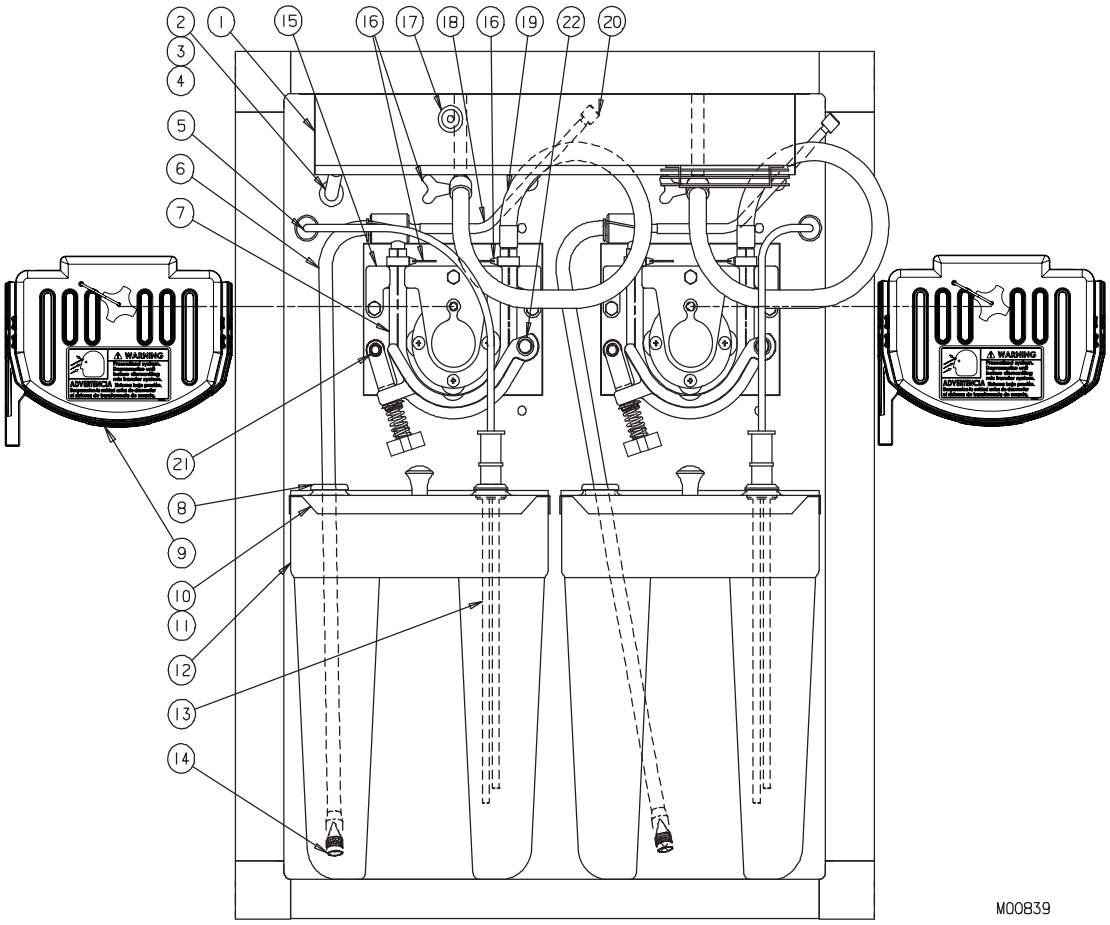


Figure 5 3Ph Mix Transfer System - RMT (Parts)

Item	Part No.	Description

Figure 6 Cabinet Parts

AIR METERS	
Meter No.	**Part No.**
9	HC163423
10	HC163424
11	HC163425
12	HC163426
13	HC163421
13.5	HC163421-05
14	HC163427
14.5	HC163427-05
15	HC163428
15.5	HC163428-05
16	HC163429
16.5	HC163429-05
17	HC163430
17.5	HC163430-05
18	HC163431
18.5	HC163431-05
19	HC163432
19.5	HC163432-05
20	HC163433
20.5	HC163433-05
21	HC163434
21.5	HC163434-05
22	HC163435
22.5	HC163435-05
23	HC163436
24	HC163437
25	HC163438
26	HC163439
28	HC163440
30	HC163441
31	HC163442



Item	Part No.	Description	Item	Part No.	Description

(Order by meter number)

Figure 7 Switch Assembly

Item	Part No.	Description

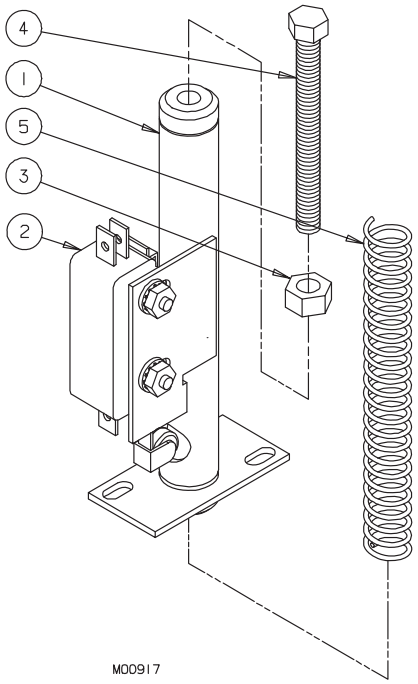
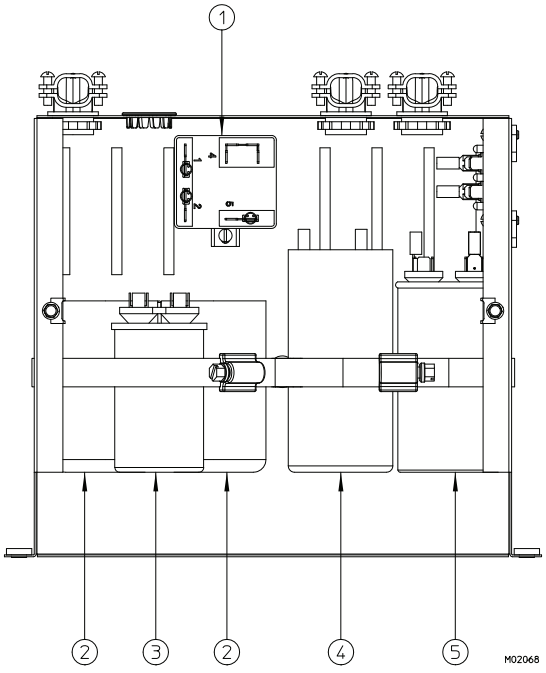


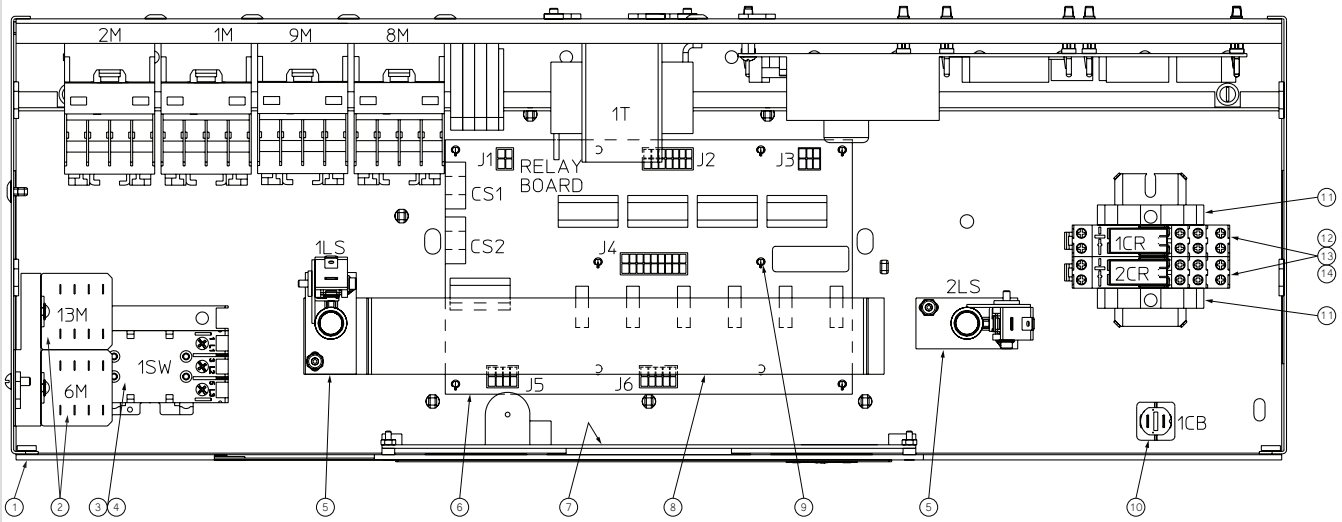
Figure 8 Capacitor & Relay Box

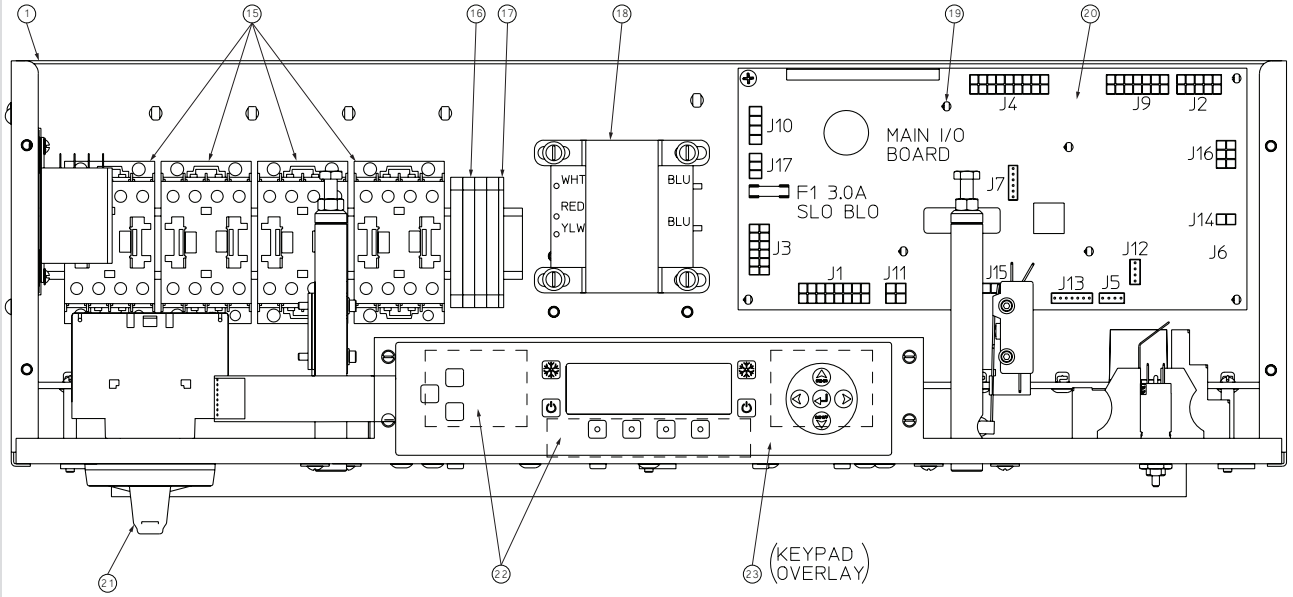


Item	Part No.	Description

Figure 9 Switch Box (Breakdown)

TOP VIEW





3" LONG, TYP 2 PLCS
0.25" DOWN FROM TOP EDGE

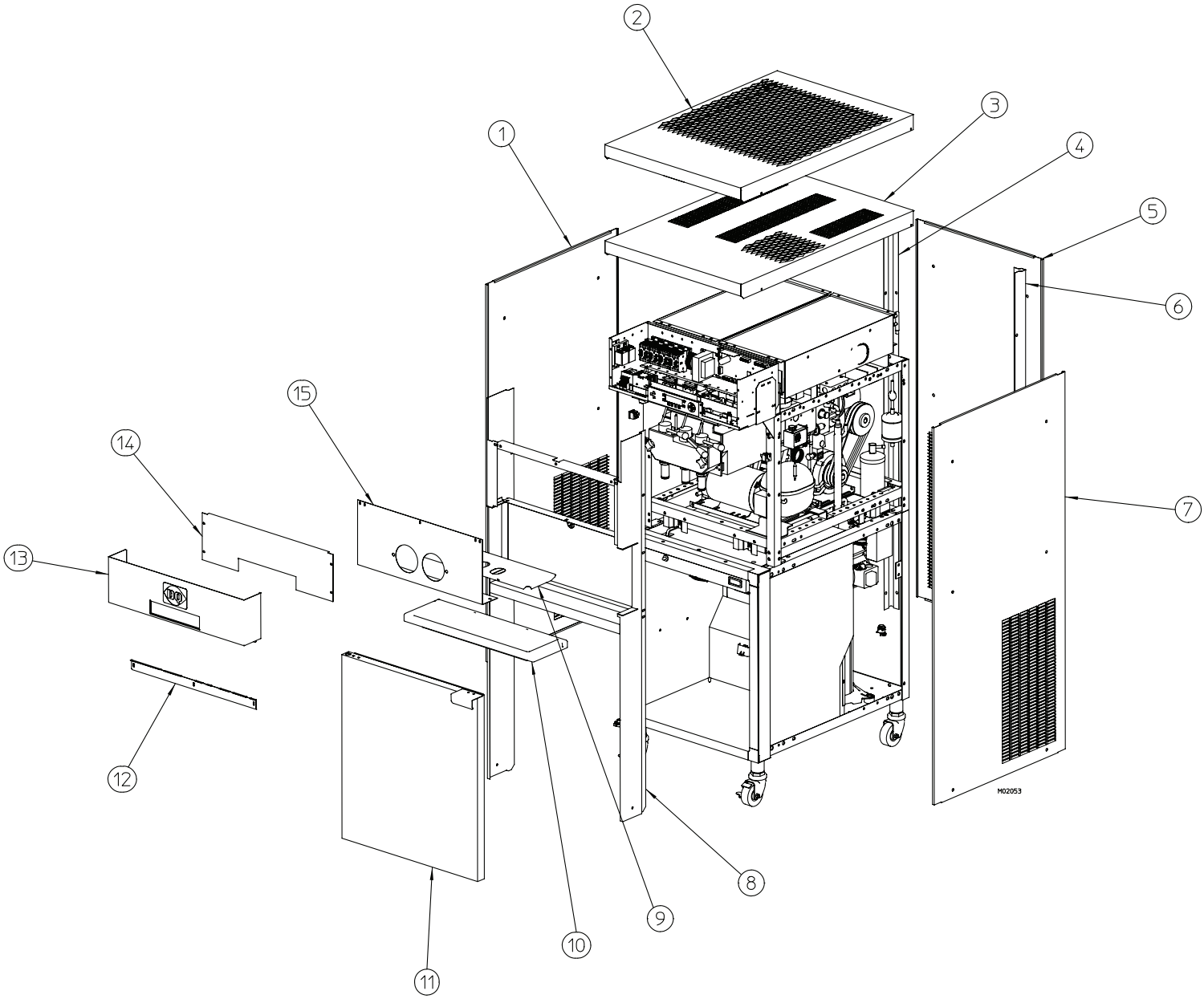
4" LONG, COVER FACE JUST
UNDER DISPLAY WINDOW

FRONT VIEW

Figure 9 Switch Box (Parts)

Item	Part No.	Description

Figure 10 Panel Breakdown (Breakdown)



Hardware for Panels				
Panel	**Screw**	**Nut-Speed**	**Spacer**	**Nut-Speed on Frame**

Figure 10 Panel Breakdown (Parts)

Item	Part No.	Description
		Panel - Side LH (AC) (with air filter brackets)
		Panel - Assy Rear (AC) (with air filter brackets)
		Panel - Assy RH (AC) (with air filter brackets)
		Not Shown
		Filter - Air Rear (only machines with filter brackets)
		Filter - Air Side (only machines with filter brackets)

Panel Decals & Labels	
Part No.	**Description**

Figure 11 Air Cooled Side/Back View (Breakdown)

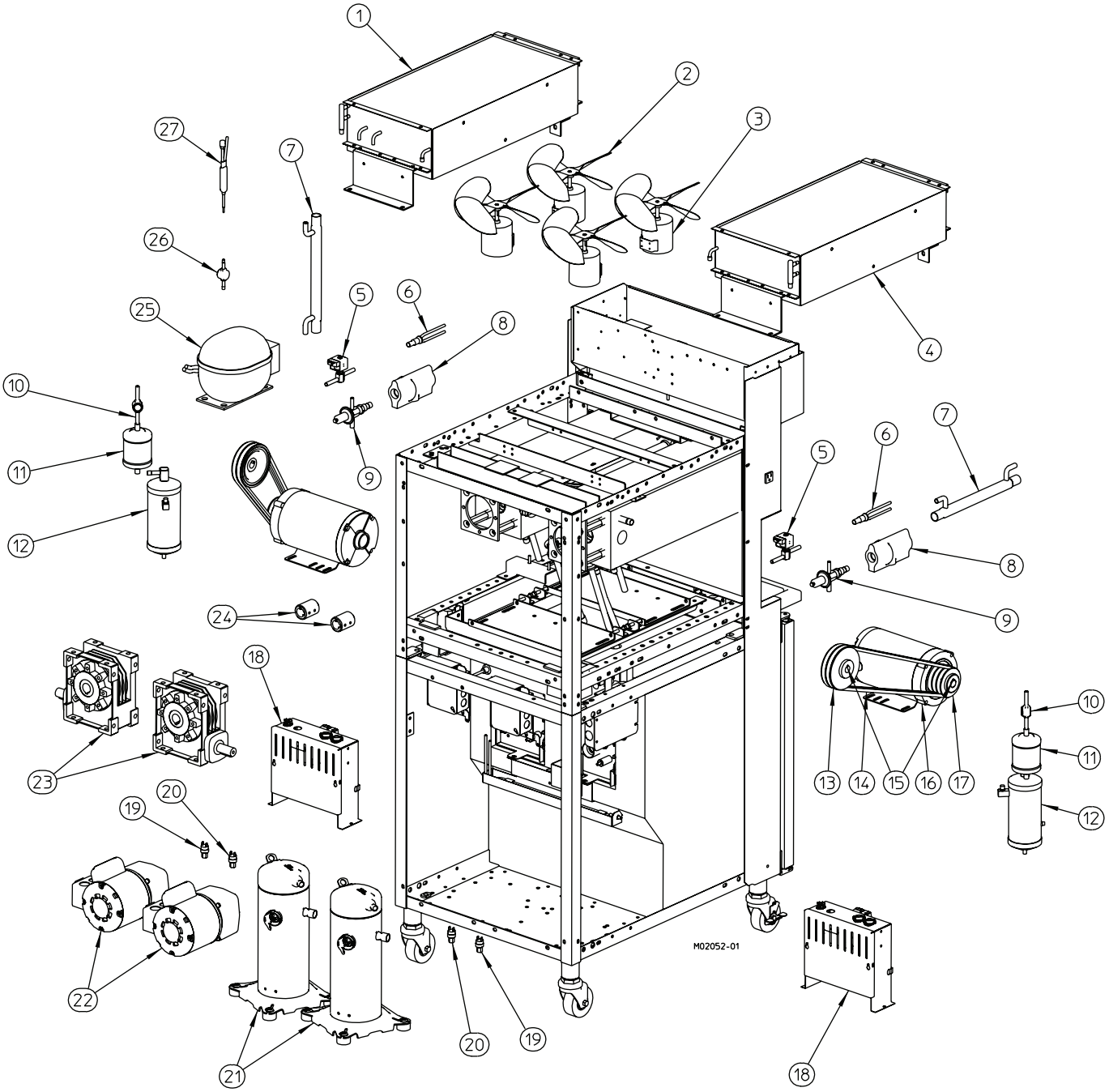


Figure 11 Air Cooled Side/Back View (Parts)

Item	Part No.	Description
		Condenser - Air Rifled
		Condenser - Air Rifled

Not Shown:

Figure 12 Water Cooled Side/Back View (Breakdown)

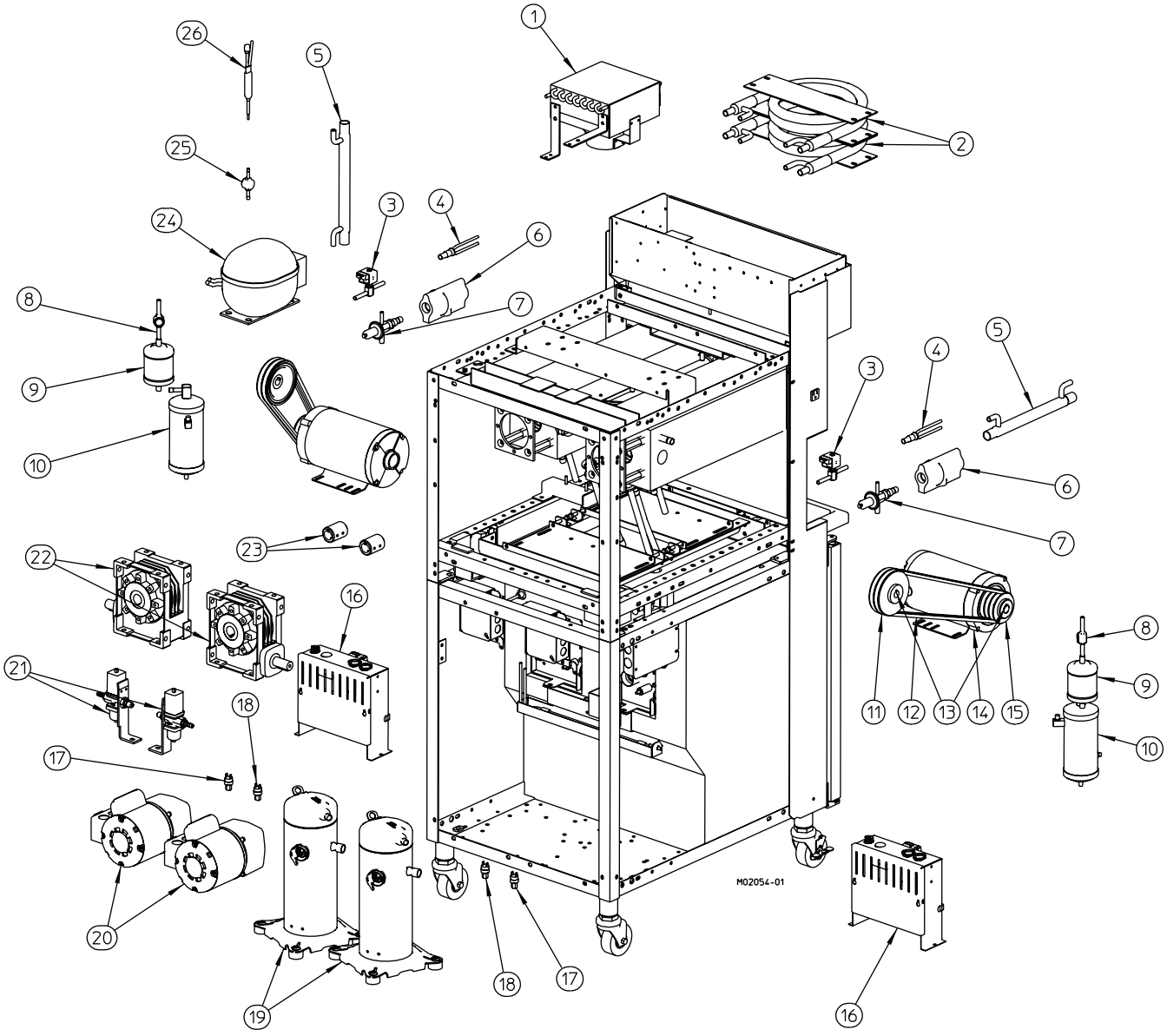
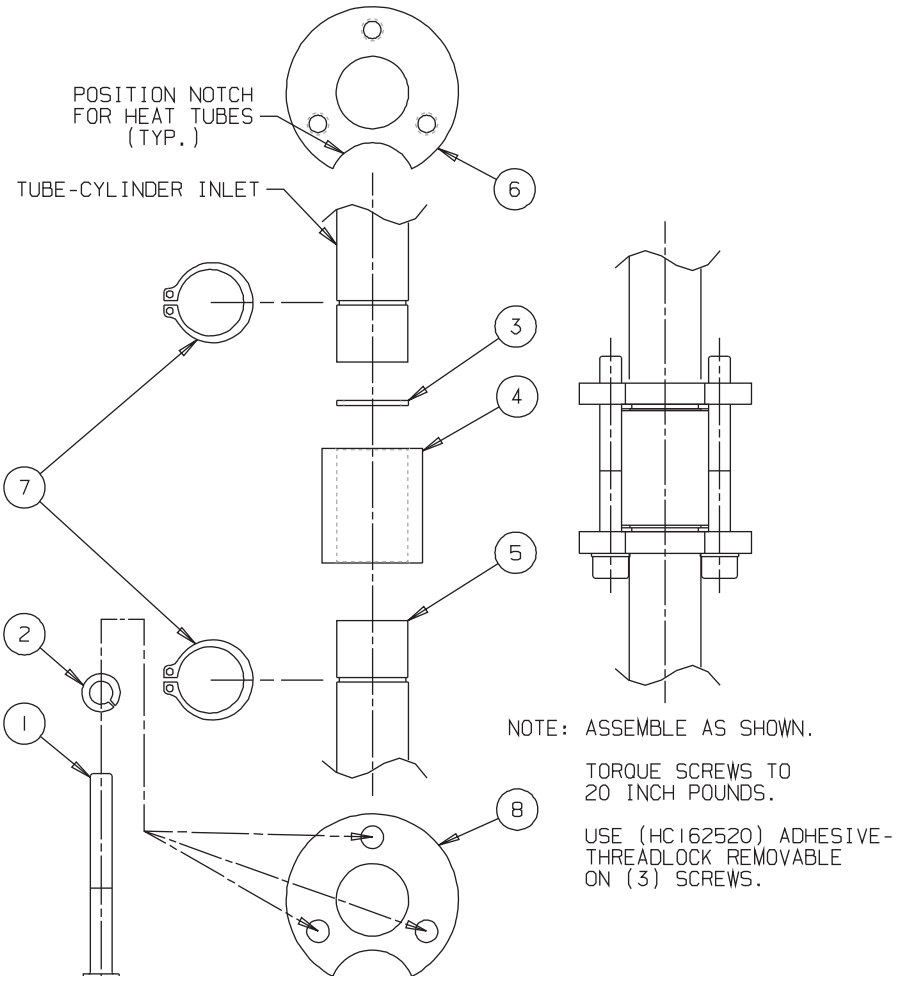


Figure 12 Water Cooled Side/Back View (Parts)

Item	Part No.	Description

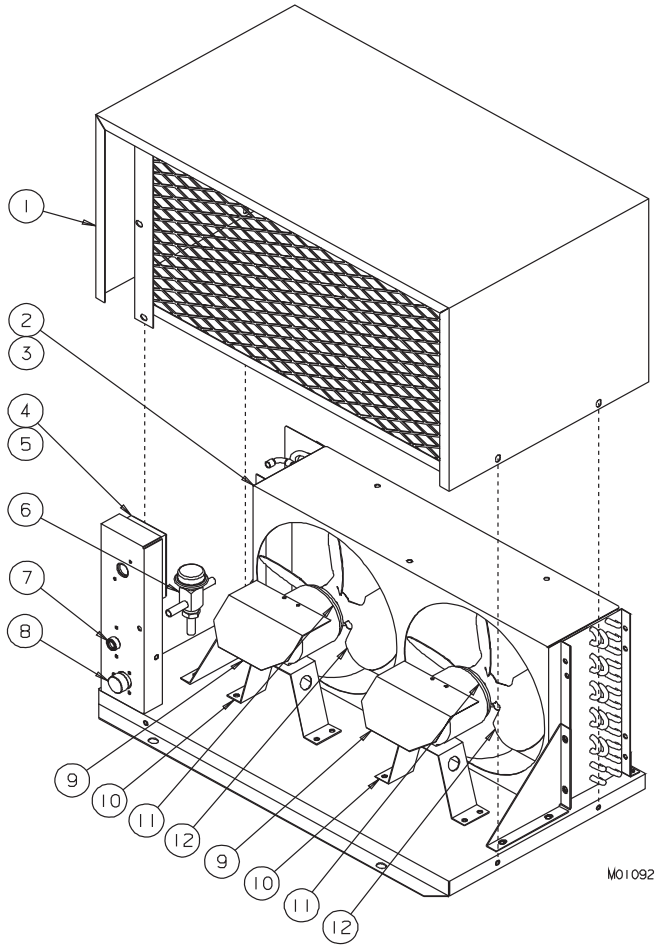
Not Shown:

Figure 13 Mix Feed Seal Assembly



Item	Part No.	Description

Figure 14 Air Cooled Remote Condenser



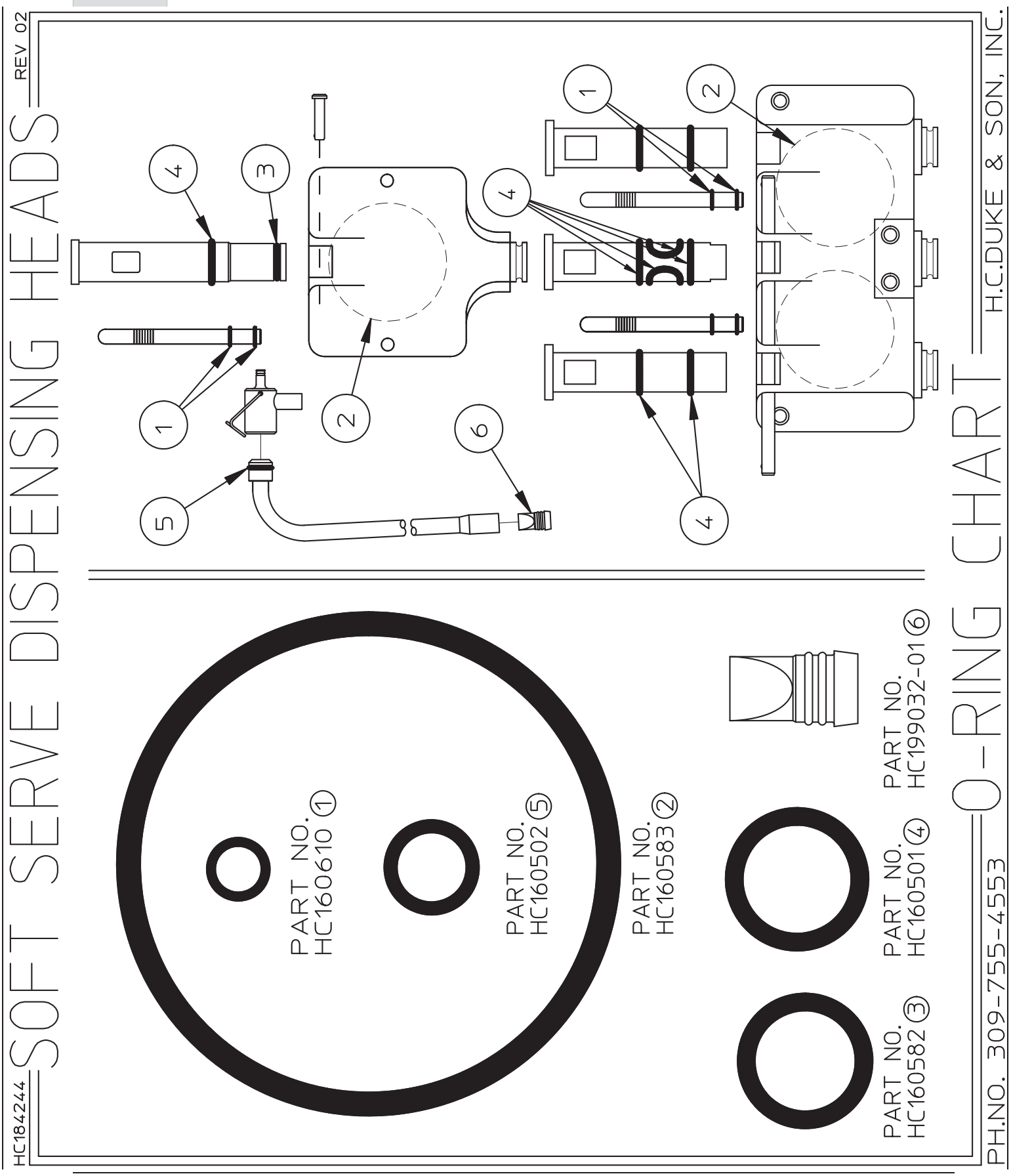
Item	Part No.	Description
		Condenser - Air Rifled

Not Shown:

Accessories

Part No.	Description

O-Ring Chart


HC184244
SOFT SERVE DISPENSING HEADS
REV 02
H.C.DUKE & SON, INC.
O-RING CHART
PH.NO. 309-755-4553
PART NO. HC160610 ①
PART NO. HC160502 ⑤
PART NO. HC160583 ②
PART NO. HC199032-01 ⑥
PART NO. HC160582 ③
PART NO. HC160501 ④