
ELECTRO FREEZE®

Operator's Manual with Illustrated Parts List

**COCKTAIL AND
SLUSH FREEZER
Model 812**

184946 — 5/10

Operator's Manual

for the

Electro Freeze

Cocktail/Slush Freezer

Model 812

SAFETY FIRST!

Follow these four steps to safety

1. Recognize Safety InformationLook for this safety alert symbol throughout this manual.



When you see this symbol on your freezer or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operating practices.

2. Understand Signal Words



The signal words — **DANGER, WARNING and CAUTION** — are used with the safety alert symbol (DANGER decals on the freezer may or may not have the safety alert symbol, but the message is the same). Decals with the words **DANGER, WARNING or CAUTION** appear on the freezer. **DANGER** identifies the most serious hazard. Decals with the words **DANGER or WARNING** are typically near specific hazards on the freezer. General precautions are listed on **CAUTION** safety decals.

In this manual, **CAUTION** messages with the safety alert symbol  call attention to safety messages.

SAFETY FIRST!

3. Follow Safety Instructions



Read and understand all safety messages in this manual. Read and understand the decal safety messages on your freezer. Take notice of the location of all decals on the freezer and keep the safety decals in good condition. Check them periodically and replace missing, damaged or illegible safety decals. The safety decals must remain in place and legible for the life of the freezer. If you need new decals, use the information and illustrations on pages iv and v of this manual to identify the decal and contact your local Electro Freeze distributor — or H.C. Duke & Son, Inc.

DO NOT attempt to operate the freezer until you read and understand all safety messages and the operating instructions in this manual.

4. Operate Safely



DO NOT allow untrained personnel to maintain or service this machine. Failure to follow this instruction may result in severe personal injury. ***DO NOT*** operate the freezer unless all service panels and access doors are secured with screws. ***DO NOT*** attempt any repairs to the freezer until the main power supply has been disconnected. Contact your local Electro Freeze Distributor for authorized service.

Safety Decal Locations

Do not attempt to operate the freezer until all safety precautions and operating instructions in this manual are read and understood.

Take notice of all warning, caution, instruction and information decals (or labels) on the freezer as shown in the figure on the following page. The labels have been put there to help maintain a safe working environment.

The labels have been designed to withstand washing and cleaning. All labels must remain legible for the life of the freezer. Check labels periodically to be sure they can be recognized as warning labels.

If it is necessary to replace *any* label, please contact your local authorized Electro Freeze Distributor or H.C. Duke & Son, Inc. When ready to order you will need to determine the (1) part number, (2) type of label, (3) location of label, and (4) quantity required, and include a return shipping address.

You may contact your local authorized Electro Freeze Distributor, as follows:

Name: _____

Address: _____

Phone: _____

or — for factory service assistance — contact H. C. Duke & Son, Inc., Electro Freeze Service Department by phone or FAX:



Phone: (309) 755-4553
(800) 755-4545

FAX: (309) 755-9858

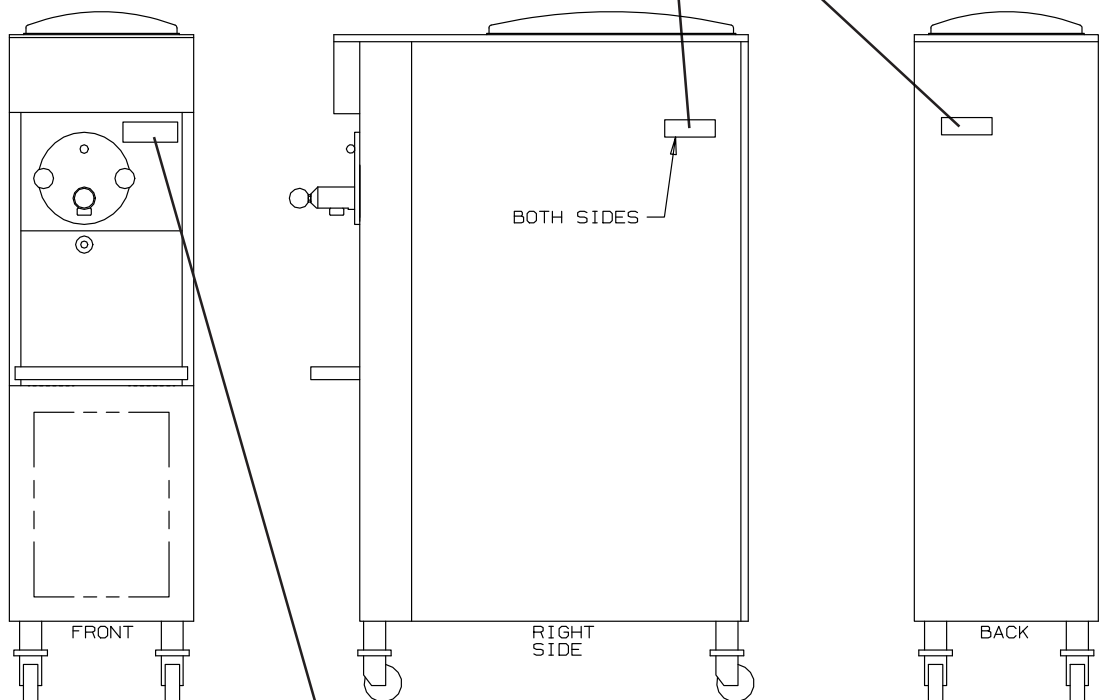
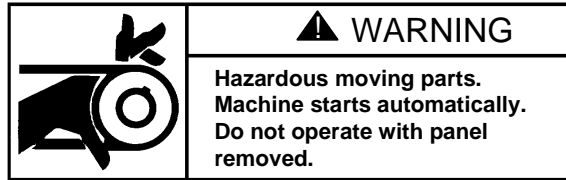
E-mail: service@hcduke.com

(The decals on the next page are numbered 1 and 2. Those numbers correspond to the numbers in the table below. The table provides the part number, description, and quantity for each decal.)

No.	Part No.	Description (Qty.)
1	P/N HC165126	Decal — Panel Removal Warning (3)
2	P/N HC165025	Decal — Beater Warning (1)

Safety Decal Locations

1



M00022

2

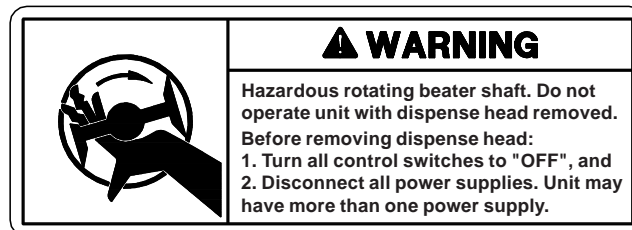


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PART II

MODELS 812 REPLACEMENT PARTS with ILLUSTRATIONS	*
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* Refer to Part II Table of Contents for help with locating part numbers and illustrations.

1 Introduction

Model 812 is specifically designed to dispense a high quality, smooth-frozen, noncarbonated, water and sugar based drink that is served in a variety of flavors. The product can be a neutral base or a pre-mixed flavor. This model is also designed to dispense a variety of smooth-frozen alcoholic drinks with less than 8% alcohol.

This manual has been prepared to assist you in the proper operation and general maintenance of your Electro Freeze Model 812 Slush and Cocktail Freezer.

Your freezer will not compensate for, or correct, any assembly or priming errors made during the initial start-up. So it is important that you follow the assembly and priming procedures detailed in this manual.

Be sure all personnel responsible for equipment operation completely read and understand this manual before operating the freezer. When properly operated and maintained, your freezer will produce a consistent quality product.

If you require technical assistance, please contact your local authorized Electro Freeze Distributor, as follows:

Name: _____
 Address: _____
 Phone: _____

or — for factory service assistance — contact H. C. Duke & Son, Inc., Electro Freeze Service Department by phone or FAX:



Phone: (309) 755-4553
 (800) 755-4545
 FAX: (309) 755-9858
 E-mail: service@hcduke.com


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.

When the unit is received and while the carrier is still present, inspect the shipping carton for any damage that may have occurred in transit. If the SHOCKWATCH® label indicates red and/or the carton is broken, torn, or

punctured, note the damage on the carrier's freight bill and notify the carrier's local agent immediately.

1. Remove the carton from the pallet, and move the machine as close as possible to the permanent location.

2. Remove the shipping bolts on the bottom of the freezer (figure 2-1) and install either the legs or casters (figure 2-2).

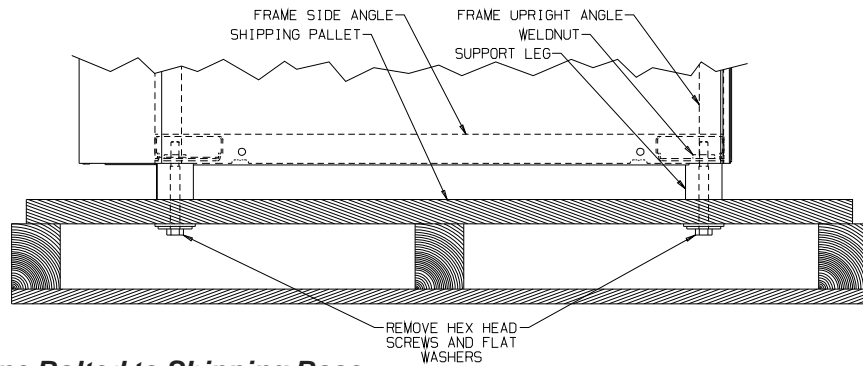
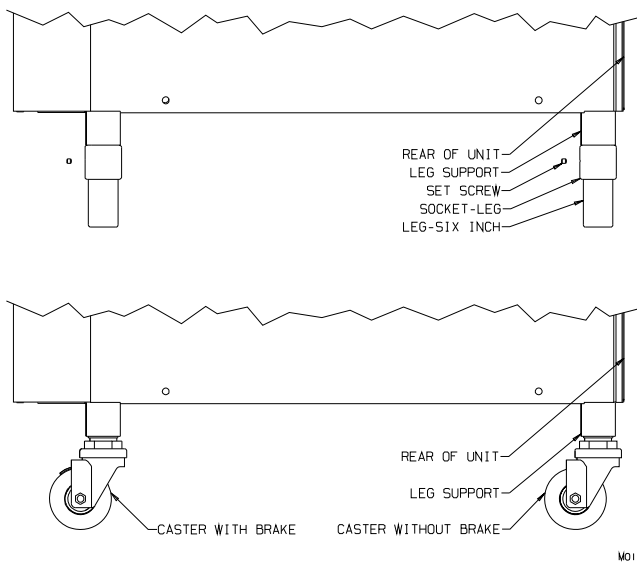


Figure 2-1 Machine Bolted to Shipping Base



NOTE: Screw casters or legs all the way in coupling, then adjust out to level side to side with a 1/4" slope to the front.

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 (NEC).

1. Where codes permit, we recommend that the freezer be installed on casters and have flexible water and electrical connections for easier service and cleaning.

2. **Air and water cooled** models require a 6-inch (15.2 cm) clearance on all louvered panels for adequate ventilation.

3. **Water cooled** models require a 3/8-inch MPT water inlet and water waste connection. The connections are found on the bottom to access remove lower front panel. They are tagged "Water Inlet" and "Water Waste." A manual shut-off valve should be installed in the water inlet line at the time of installation.

4. Place the freezer in its final location and adjust the legs or casters so that it is level side-to-side and the front is approximately 1/4-inch lower than the rear to allow proper drainage of the freezing cylinder.

2.3 Electrical Requirements



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

1. Always verify electrical specifications on the data plate (see figure 3-1) of each individual freezer. Data plate specifications will always supersede the information in this manual.

2. Supply voltage must be within $\pm 10\%$ of voltage indicated on the nameplate. Also, on three-phase systems, voltage between phases must be balanced within 2%. (More than a 6 volt difference between any two voltage measurements at 208-230 volts indicates a possible imbalance.) Request your local power company to correct any voltage problem.

3. An easily accessible main power disconnect must be provided for all poles of the fixed wiring to the freezer.

2.4 Electrical Connections



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

1. Check the data plate on the rear panel for fuse size, wire ampacity, and electrical specifications.
2. Refer to the wiring diagram provided for proper power connections.

3. Electrical connections are made in the junction box located mid-level behind the lower front panel.

4. Use a flexible connection when permissible. All materials and connections must conform to local codes and/or the National Electrical Code (NEC). Supply voltage must be within 10% of voltage indicated on the nameplate.

2.4.1 Accessory - 115v Lighted Sign

If you purchased the 115v lighted sign accessory with your model 812 freezer, the following instructions are for installing power to the sign.



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.

1. The lighted sign requires a separate 115 volt power supply. The service connection box is marked 115 volt and is located next to the 230 volt supply box. The boxes are mid-level, behind the lower front panel of the freezer. All connections are made through the service bracket on the floor of the lower front panel.

2. All materials and connections must conform to local requirements and be in compliance with the National Electric Code (NEC). Supply voltage must be within 10% of voltage indicated on the nameplate. Use copper conductors only with the insulation rated for 115 volt.

3. Adequate strain relief must be provided if cords are used.

3 Specifications

3.1 Particulars

Width (in/cm)	16/41
Height (in/cm)	58/147
Depth (in/cm)	36/91
Weight (lbs/kg)	525/238
*Voltage	208-230-1-60, 2 wire
Min. Circuit Ampacity	22.5 (air) 21.0 (water)
Compressor	2 HP
Beater Motor	.5 HP

Refrigerant	404a
Charge	3.75 lb/1.70 kg
Cooling	Air or water
Hopper	20 qts/18.9 L
Cylinder	12 qts/11.4 L

*Contact factory for other voltages.

3.2 Data Plate

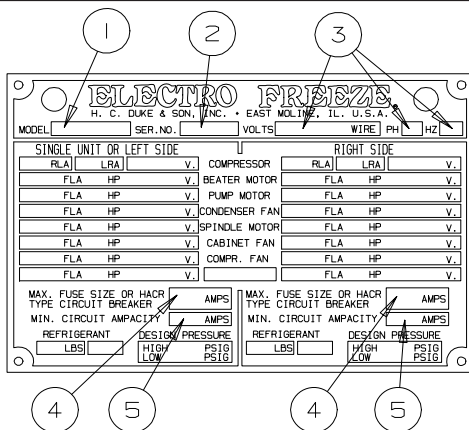


Figure 3-1 Data Plate

The data plate provides important information that the operator should record and have available for parts ordering, warranty inquiries, and service requests.

3.3 Reference Information

Write in Reference Information HERE!



Fill in the following information as soon as you receive your Electro Freeze 812 (The item numbers correspond to the callout numbers in figure 3-1, above.)

- ① Model Number: _____
- ② Serial Number: _____
- ③ Electrical Spec: Voltage _____
Phase _____ Hertz _____
- ④ Maximum Fuse Size: _____
- ⑤ Minimum Circuit Ampacity: _____

3.4 Installation Date

Fill in the date of installation, and the name, address, and phone number of the installer in the space provided below. This information will be needed when ordering parts or service for the Model 812 cocktail/slush machine.

Date of installation: _____

Installed by: _____

Address: _____

Phone: _____

3.5 Dimensions

Figure 3-2, below, provides the dimensions of the Electro Freeze 812 cocktail/slush machine.

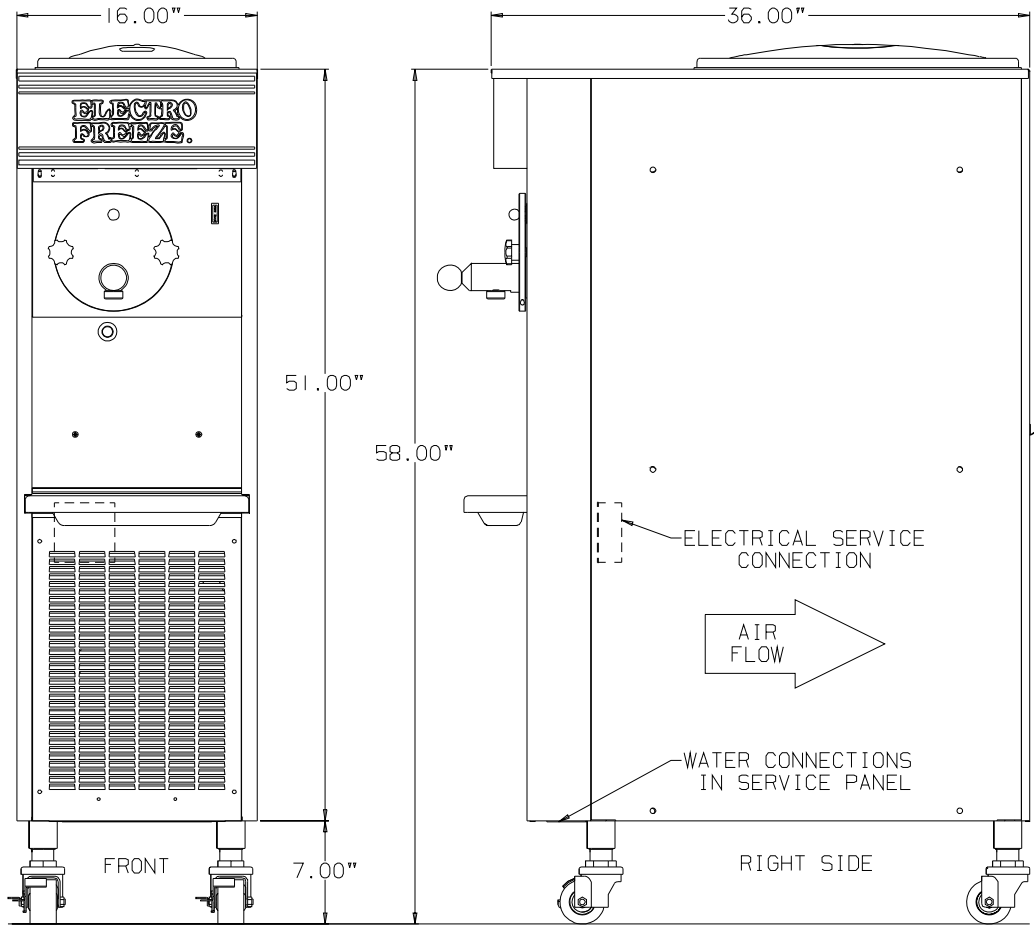


Figure 3-2

4 Part Names and Functions

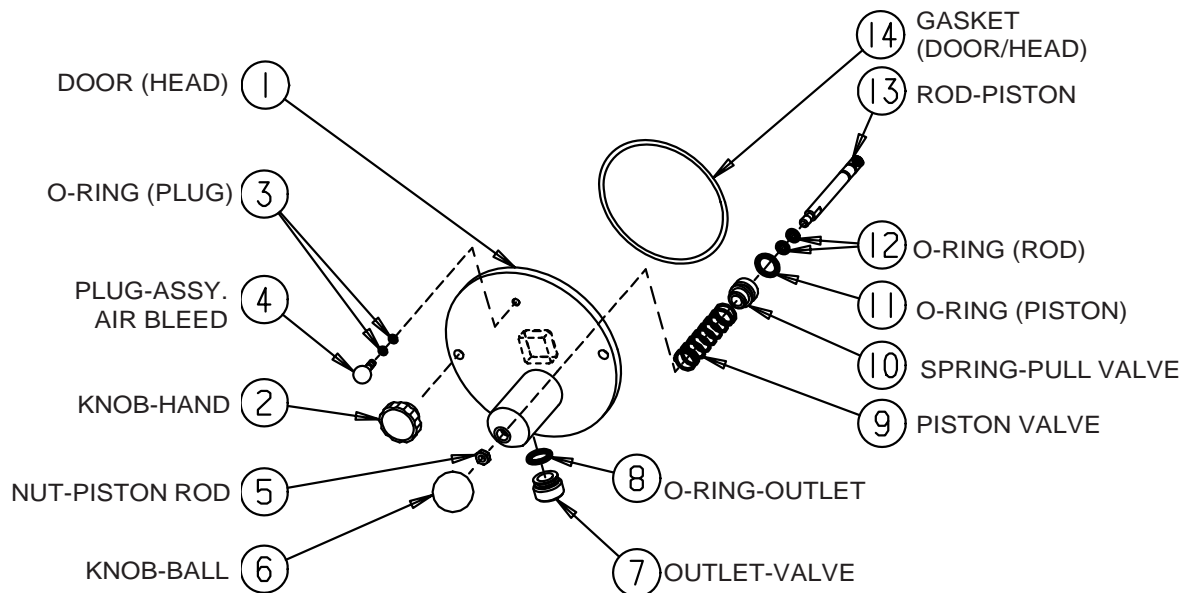


Figure 4-1 Door (Head) Assembly

The following numbered paragraphs (1 through 14) refer to figure 4-1, above.

- | | |
|---|--|
| <p>① DOOR (HEAD) Encloses the freezing cylinder and provides an opening for product to be dispensed.</p> <p>② KNOB - HAND Secures the head to the freezing cylinder.</p> <p>③ O-RING (PLUG) Seals the air bleed plug in the head. Must be lubricated.</p> <p>④ PLUG - ASSY. AIR BLEED Seals the air bleed opening in the head when closed. Allows air to be removed from the cylinder in the filling process.</p> <p>⑤ NUT - PISTON ROD Keeps piston assembly from going into the cylinder if the ball knob is removed.</p> <p>⑥ KNOB - BALL Used to open and close the piston to start and stop the flow of product from the freezer.</p> <p>⑦ OUTLET - VALVE Shapes the frozen product when dispensed.</p> | <p>⑧ O-RING - OUTLET Seals the nozzle in the head. Must be lubricated.</p> <p>⑨ SPRING - PULL VALVE Enables the piston to self close after dispensing.</p> <p>⑩ PISTON - VALVE Seals the product opening in the head when closed. Allows product to flow when open.</p> <p>⑪ O-RING (PISTON) Seals the piston in the head. Must be lubricated to seal and glide properly.</p> <p>⑫ O-RING (ROD) Holds the piston in place on the rod. Must be lubricated.</p> <p>⑬ ROD - PISTON Attaches piston to the knob ball for dispensing.</p> <p>⑭ GASKET (DOOR/HEAD) Seals the head to the freezing cylinder. Lightly lubricate.</p> |
|---|--|

4 Part Names and Functions (continued)

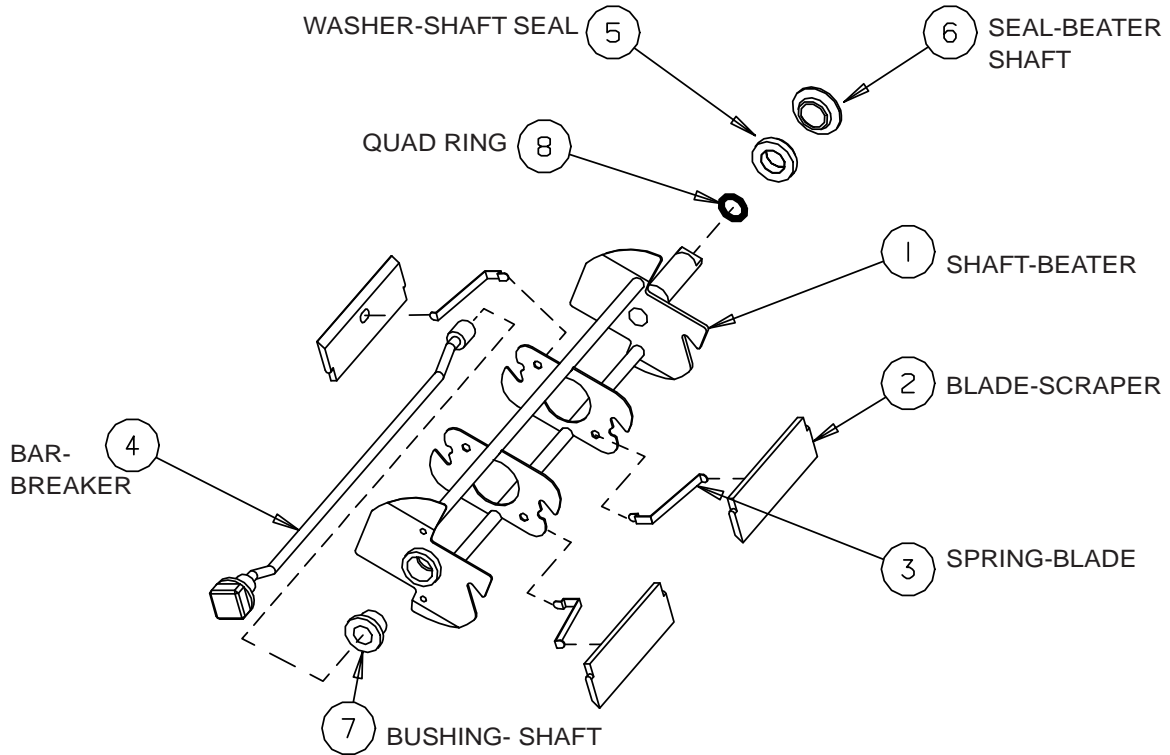


Figure 4-2

The following numbered paragraphs (1 through 8) refer to figure 4-2, above.

- | | |
|--|---|
| <p>1 SHAFT - BEATER (REEL) Rotates in the freezing cylinder to keep product blended.</p> | <p>5 WASHER - SHAFT SEAL Holds the cup portion of the shaft seal to the beater shaft. Must be lubricated.</p> |
| <p>2 BLADE - SCRAPER Scrapes the frozen product from the freezing cylinder wall.</p> | <p>6 SEAL - BEATER SHAFT Seals the opening between the freezing cylinder and the beater shaft. Do not lubricate.</p> |
| <p>3 SPRING - BLADE Holds the blade against the cylinder wall.</p> | <p>7 BUSHING - SHAFT Holds breaker bar in beater shaft.</p> |
| <p>4 BAR - BREAKER Keeps product blended in the center of the beater shaft.</p> | <p>8 QUAD RING Separates beater shaft and washer shaft seal.</p> |

5 Operator Controls and Indicators

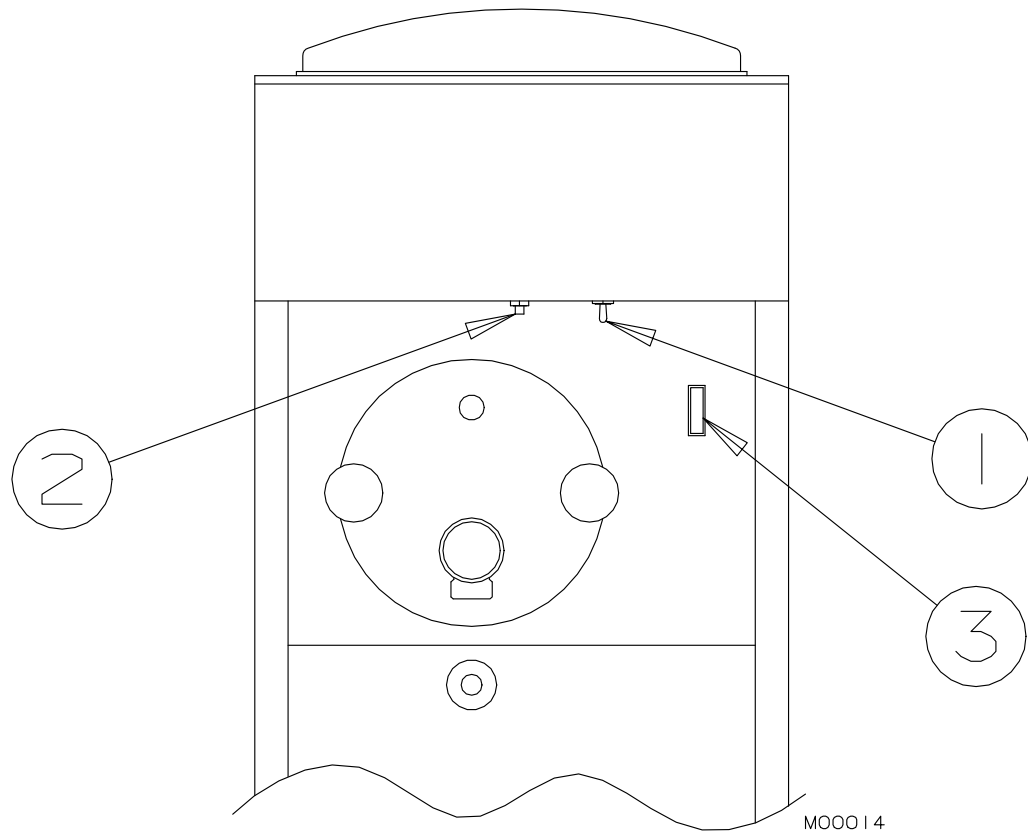


Figure 5-1

The following paragraphs describe the operator controls and indicators. Refer to figure 5-1 for location of these controls and indicators on the freezer.

NOTE: The head must be in place for the beater to operate.



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

5 Operator Controls and Indicators (continued)

5.1 Selector Switch ①

This three-position (toggle) switch selects the mode of operation of the freezer.

a. “**CLEAN**” (left)— This position operates the beater only (no refrigeration). This position must be used in all cleaning and sanitizing operations.

b. “**OFF**” (center) — In this position the beater motor and refrigeration system will not operate.

Important:
Do not use the “FREEZE” position with water or sanitizer in the cylinder or hopper—freezer will be damaged.

c. “**FREEZE**” (right) — This position activates both the beater motor and refrigeration unit. This is the normal operating position.

5.2 Overload – Reset ②

This control protects the beater motor against failure from an overload condition by automatically shutting down the freezer. To restart properly, turn the selector switch to “OFF”, wait 2-3 minutes, then depress the reset button and turn the selector switch back to the “FREEZE” or “CLEAN” position.

Important:
If the overload trips frequently, your freezer should be checked for proper product consistency and voltage. Contact your Electro Freeze Distributor.

5.3 Indicator Light –“ADD MIX” (Optional) ③

When blinking, this light indicates the mix in the hopper is low and should be refilled as soon as possible. Always maintain at least 2 inches (5.1 cm) of mix in the hopper. For best operating results, *keep hopper full.*

Important:
If proper mix level is not maintained, a freeze-up may occur and damage the freezer.

6 Disassembly and Cleaning



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.

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

NOTE: If freezer has mix in the cylinder, refer to Closing Procedures, Section 9.2 "Draining Product from the Freezer" before proceeding.

The cleaning and sanitizing instructions explained in this manual are required to maintain a clean, sanitary freezer. Your freezer should be disassembled, cleaned, reassembled, lubricated and sanitized to ensure the best possible product and freezer operation. Persons assembling, cleaning or sanitizing the freezer must first wash and sanitize their hands and forearms with an approved

6.1 Cleaning Accessories

The following accessories are shipped with your freezer and are used when cleaning and sanitizing your freezer.

1. P/N **HC158010** BRUSH and 158012 HANDLE, Cylinder. 6-inch diameter brush, 36-inch long handle.

2. P/N **HC158077** BRUSH. 9/16-inch diameter 36-inches long, used for cleaning the drain tube.

3. P/N **HC158026** BRUSH. 1-inch diameter 12-inches long used to clean

the disassembled shaft seal and bushing.

4. P/N **HC158022** BRUSH. 1/4-inch diameter with 6-1/2-inch handle used for cleaning the head and beater shaft holes.

5. P/N **HC158054A** LUBRICANT, Lubri-Film Plus. Approved lubricant for moving parts and O-rings. See Assembly, Section 7 for lubricating points.

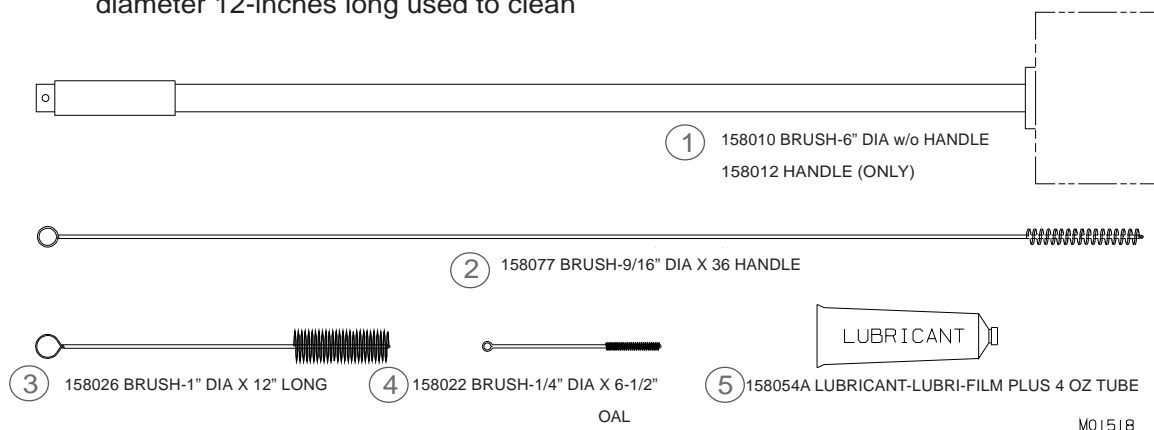


Figure 6-1

6.2 Disassembly Instructions

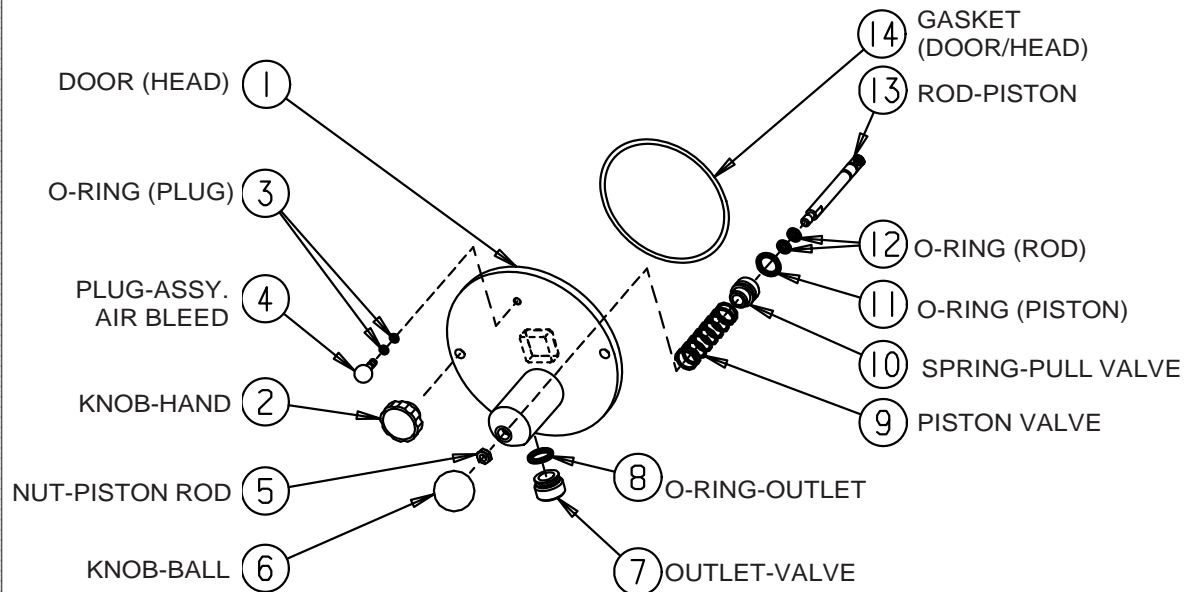


Figure 6-2 Door (Head) Assembly



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.



CAUTION

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

NOTE: If there is product in the freezer, refer to Closing Procedures, Draining Product, paragraph 9-1.

1. Remove the two hand knobs (figure 6-2, item 2) and pull the dispensing door (1) straight out.

2. Remove the ball knob (6), nut (5), air bleed plug (4) and outlet valve (7) from the door (1).

3. Remove the piston assembly (10, 11, 12, 13) and spring (9) by pushing the piston rod (13) through the back of the door (1).

4. Remove the o-rings (11, 12) from the piston assembly. Remove the o-ring (8) from the outlet valve (7). Remove two o-rings (3) from the air bleed plug (4).

5. Remove the door gasket (14) from the door (1).

6. Remove the beater shaft (figure 6-3, item 1) from the cylinder.

7. Remove scraper blades (2), springs (3), seal (5 and 6), quad ring (8), breaker bar (4), and bushing (7) from the beater shaft (1).

8. Remove the cup seal from the plastic washer on the shaft seal assembly as shown in figure 6-4.

9. Remove hopper cover, drip tray and insert. (See Replacement Parts Section - Panels)

6.2 Disassembly Instructions (continued)

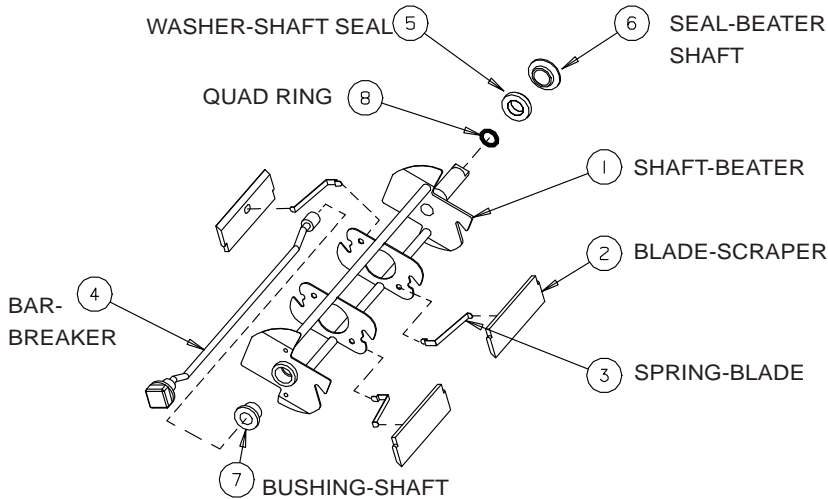


Figure 6-3 Beater Shaft

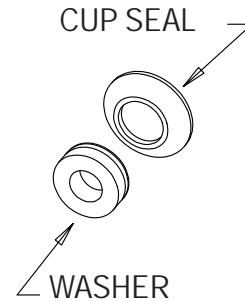


Figure 6-4 Shaft Seal Assembly

6.3 Cleaning Instructions

NOTE: It is your responsibility to be aware of the requirements for meeting federal, state and local laws concerning the frequency of cleaning and sanitizing your freezer.



CAUTION

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



CAUTION

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

1. Prepare a three-compartment sink for cleaning parts removed from the freezer, per applicable health codes. Also, prepare a clean surface to air-dry all parts.

IMPORTANT:

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

NOTE: The sanitizer should be mixed according to the manufacturer's instructions to yield 100 PPM strength chlorine solution. (example: Stera-Sheen Green Label.) Use warm water (100° to 110°F or 38° to 43°C) to wash, rinse, and sanitize.

– continued

6.3 Cleaning Instructions (continued)

2. Wash all parts removed from the freezer thoroughly with a warm, mild dish detergent solution. Clean the following parts with the appropriate supplied brush:

- a. The dispense door piston opening, breaker bar bushing cavity, air bleed hole, dispense outlet valve opening, and the door mounting holes, as shown in figure 6-5.
- b. The shaft cup seal, washer, outlet valve, piston, and rod as shown in figure 6-6.
- c. The beater shaft inside spring mounting holes and the scraper blade mounting indentations as shown in figure 6-7.

Important:

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

3. After ALL parts are washed, rinse and place in the sanitizing solution. For proper sanitizing, the parts must remain fully immersed in the sanitizer for 5 minutes. Allow parts to air-dry after sanitizing.

4. Remove the hopper cover and the bottle rack, take to the sink area to wash with the dish detergent solution. Rinse with clean water.

5. With the dish detergent solution thoroughly brush the inside of the hopper, the mix feed port to the cylinder, the drain tube (figure 6-8), and the inside of the cylinder making certain to clean the back wall of the cylinder. Rinse with clean water.

6. Wipe down the freezer with the dish detergent solution and rinse with clean water.

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.

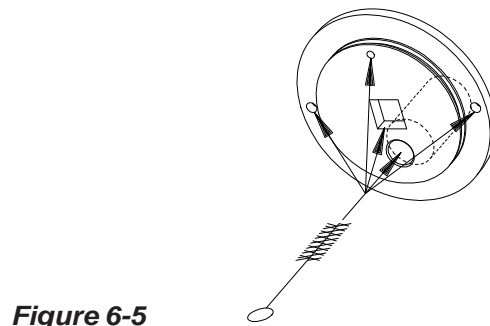


Figure 6-5

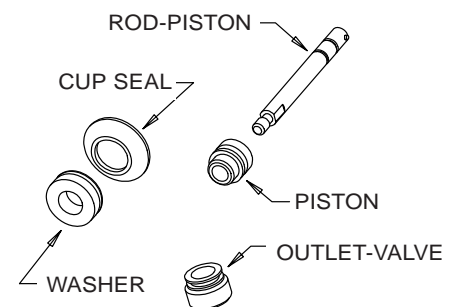


Figure 6-6

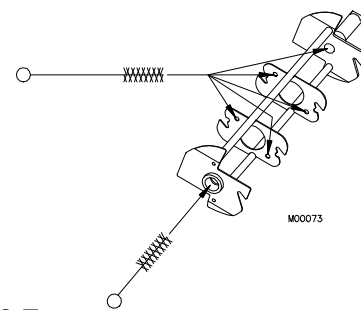


Figure 6-7

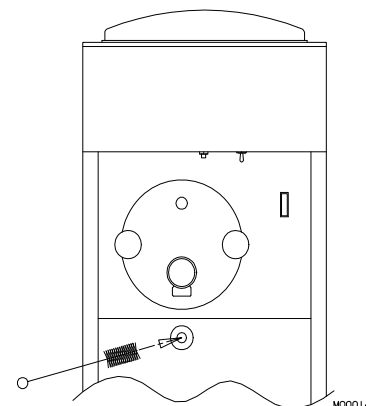


Figure 6-8

7 Assembly

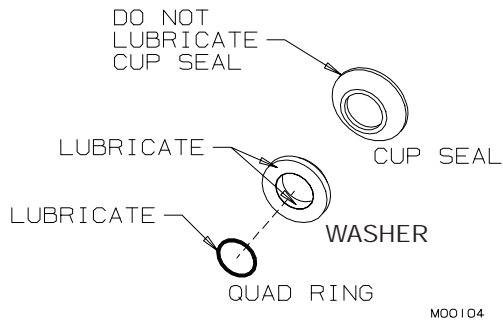


Figure 7-1 Shaft seal assembly

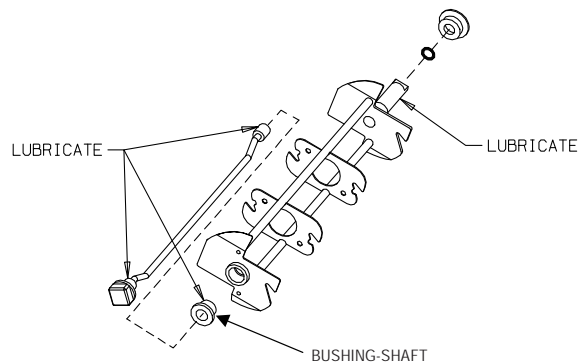


Figure 7-2 Install shaft seal assembly on beater shaft

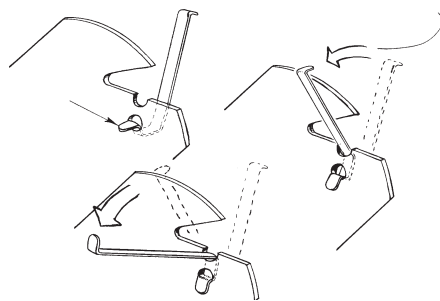


Figure 7-3 Install blade springs

Correct assembly of the freezer is essential to prevent leakage of product and damage to the freezer. To assemble the freezer you will need an approved lubricant (such as Lubri-Film Plus). Make sure all parts of the assemblies have been washed and sanitized before assembling. Persons assem-

bling the freezer must first wash and sanitize their hands and forearms with an approved sanitizer.



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.

1. Assemble the cup seal on the plastic washer to complete the beater shaft seal (see figure 7-1). Apply a moderate amount of approved sanitary lubricant, such as Lubri-Film Plus, to the internal surface and the face of the plastic washer opposite the bell shaped portion of the seal.

NOTE: Do not allow any lubricant to come into contact with the bell-shaped rubber portion of the seal.

2. Place the quad ring over the rear of the beater shaft and lubricate. Install the beater shaft seal (figure 7-2) over the rear of the beater shaft, with the bell-shaped portion facing the rear and the washer portion against the quad ring.

3. Apply lubricant to the shaft bushing (figure 7-2) and slide onto the breaker bar.

4. Insert the breaker bar into center of beater shaft. Lubricate the bearing surfaces and insert the breaker bar into the hole in rear beater shaft disc (figure 7-2).

Important:

The beater shaft bushing (shown in figure 7-2) must be installed or the freezer will be damaged.

5. Attach the blade springs to the beater plates as shown in figure 7-3.

6. Insert the scraper blades into proper beater plate slots so that end of the spring rests in groove on the bottom side of blade.

—continued

7 Assembly (continued)

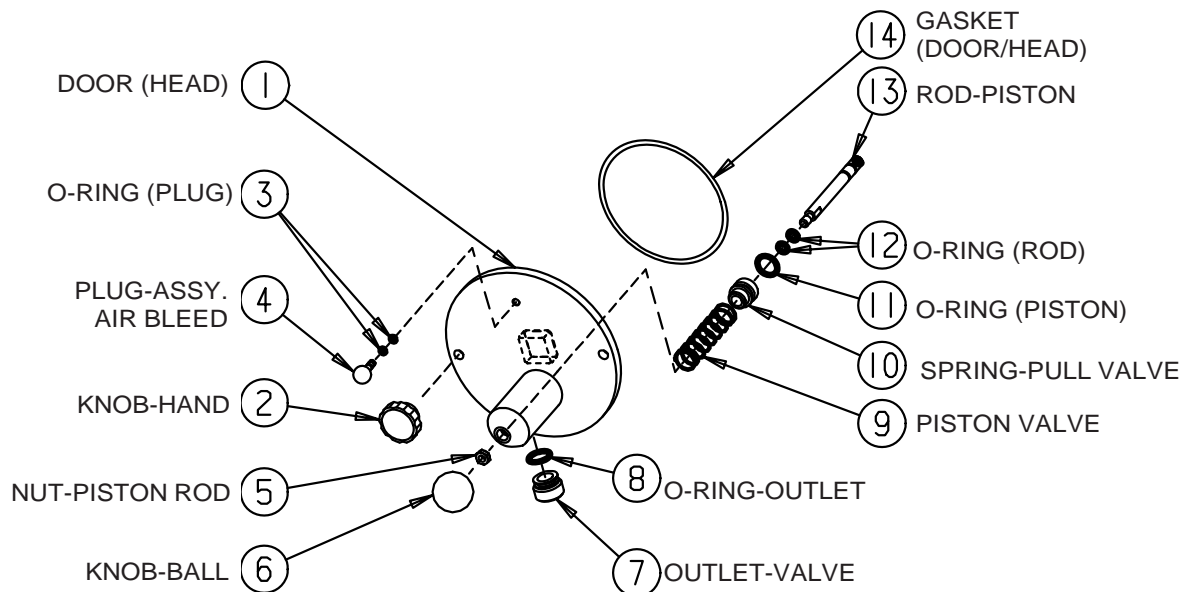


Figure 7-4

7. Insert assembled beater into cylinder by placing rear blade on bottom of cylinder and depressing front blade and spring. This will center the beater shaft and allow alignment with drive shaft. Rotate beater assembly while pushing, until shank has fully engaged the drive shaft.

8. Slide beater toward you about ½-inch. (This is necessary to align and install door properly.)

9. Assemble piston assembly (figure 7-4, items 10, 11, 12, 13) by installing the first rod o-ring (12) in groove farthest from the threads on piston rod (13) and lubricate. Then slide piston (10) over o-ring, large diameter end first. Now install the second (holding) rod o-ring (12) on rod (13) in groove closest to the threads and lightly lubricate. Install and lubricate piston o-ring (11).

10. Insert spring (9) into back side of door piston body.

11. Insert the piston assembly, threaded end first, through the center of the spring in piston body until the piston is flush with the back of the door (1).

12. Thread nut (5) on piston rod until it is off threaded portion, then screw the ball knob (6) down finger tight.

13. Install and lubricate the outlet valve o-ring (8) then insert outlet valve (7) into piston body.

14. Install and lubricate the two air bleed plug o-rings (3) then insert plug (4) into the door (1).

15. Install door gasket (14) into the groove on back of door (1). Lightly lubricate.

16. Install dispensing door (1) on freezer by sliding door over threaded studs and aligning square end of breaker bar with square in dispensing door. Slide door into cylinder and install hand knobs, being careful to tighten simultaneously and finger tight only.

NOTE: If the door (1) does not slide easily into place, recheck engagement of beater with the drive shaft.

Important:

DO NOT use excessive force when tightening the hand knobs. Excessive force will damage the door (1). Tighten finger-tight only.

8 Start-up Instructions

8.1 Sanitizing

The washing and sanitizing instructions explained in this manual are important procedures designed to remove bacteria and maintain a clean, sanitary freezer. The slush/cocktail freezer must be disassembled and cleaned according to the instructions in the manual before assembly and sanitizing to ensure the best possible cleanliness.



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.

Important:

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

NOTE: It is your responsibility to be aware of the requirements for meeting federal, state and local laws concerning the frequency of cleaning and sanitizing the freezer.

1. Wash and sanitize your hands and forearms.

2. Prepare 4 gallons (15.2 liters) of sanitizing solution (example: Stera-Sheen Green Label) in a container. Sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM strength chlorine solution.

Important:

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

Important:

Do not insert any tools or objects into the port from the hopper to the cylinder or the door dispensing hole while the freezer is running.

3. Pour sanitizing solution into the hopper pan. Using a clean brush, wash down the hopper walls and the mix feed tube from the hopper to the cylinder, as shown in figure 8-1. Wipe the hopper cover with the sanitizing solution.

Important:

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

4. Remove the air bleed plug and allow sanitizer to flow into the cylinder. Replace the plug when sanitizer reaches the bottom of the air plug opening.

5. When the cylinder has filled with sanitizing solution, reconnect the main power supply to the freezer. Turn the selector switch to the "CLEAN" position and allow the beater to run for 5 minutes.

6. At this time check for leaks around the door, plunger, and drain tube.

Important:

DO NOT hang containers from the dispensing spout. Doing so will damage the door.

7. Turn the selector switch to the "OFF" position. Place an empty container under the dispensing door and drain the solution by opening the piston to allow the cylinder and hopper to empty.

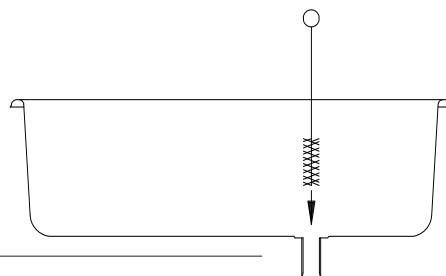


Figure 8-1

8.2 Product Preparation

Important:

DO NOT use the freezer for purposes other than freezing a “slush” product or cocktail mix, and DO NOT attempt to freeze plain water. This will result in damage to the freezer.

1. Use a container of sufficient capacity and with gallon measurement markings to accurately mix in quantities required by the product manufacturer’s instructions.

2. Prepare at least 5 gallons (18.9 L) of mix. Follow the directions exactly as shown on product label.

EXAMPLE: For powdered neutral base, add contents of package and 5 lbs. (2.3 kg) of sugar with enough

water to make 5 gallons (18.9 L) of neutral base. *Never* add more water than instructions call for.

NOTE: The product should register between 11–13° Brix on a refractometer or a hydrometer.

3. It is recommended the slush mix be precooled before filling the freezer. Cool at 36°F (2.2°C). **DO NOT FREEZE.**

4. Always thoroughly stir mix before filling machine. Ingredients can separate over time and change Brix reading.

5. When using a fruit or milk based product the hopper thermostat must be turned to the “ON” position and adjusted for proper hopper temperature of 36–38°F (2.2–3.3°C).

8.3 Priming

Priming the freezer removes excess air from the freezing cylinder and sets the proper consistency for the first cylinder of product.

1. Wash and sanitize your hands and forearms. Make sure all parts have been sanitized.

2. While holding the piston open, pour the mix directly into the hopper, allowing the mix to force out the remaining sanitizer (approximately 16 ounces or 500 ml).

3. When *pure* mix appears (all sanitizer is expelled), close the piston.

Important:

Failure to completely remove sanitizer or water from the freezing cylinder before placing in “FREEZE” will damage the freezer.

4. Remove the air bleed plug and allow the cylinder to completely fill with mix. Replace the air bleed plug when the mix reaches the bottom of the air bleed plug opening.

5. Finish filling the hopper with mix. The freezer will hold 8 gallons—12 quarts in the freezer cylinder and 20

quarts in the hopper (30.3 Liters—11.4 L in cylinder and 18.9 L in hopper.)

NOTE: If the proper mix level is not maintained, operational problems will occur. Do not allow the level of mix in the hopper to fall below 1/3 full.

6. Turn the selector switch to the “FREEZE” position.

7. Place the hopper cover over the hopper.

8. When the mix has been frozen to the proper consistency, the compressor will automatically shut off. It will restart whenever the product consistency changes. The beater will run continually.

NOTE: If your slush mix is above 70°F (21°C), it will take approximately 12 minutes to freeze down to the proper consistency.

9. See Slush/Cocktail Mix Information, Section 10, for determining consistency and making adjustments.

9 Closing Procedures

NOTE: It is your responsibility to be aware of, and conform to, the requirements for meeting local, state, and federal laws concerning the frequency of cleaning and sanitizing the freezer.

1. If the mix is nonperishable (sugar base), place the selector switch in the "OFF" position at the end of the day.
2. Clean the drip tray and all soiled surfaces with dish detergent solution and rinse with clear water. Flush dispense opening with warm water and sanitizing solution.

3. To restart the freezer on the following day, place the selector switch in the "FREEZE" position. The mix in the cylinder will still be partially frozen and this will reduce the freezing time to 5–10 minutes.

4. If the mix is perishable (fruit base), leave the selector switch in the "FREEZE" position or drain the product from the freezer, Section 9.2.

9.1 Draining Product from the Freezer

To remove frozen product from the cylinder, perform the following steps:

1. Place the selector switch in the "CLEAN" position.
2. Place a clean, sanitized container under the dispensing nozzle.

NOTE: Follow state and local health codes concerning reuse of mix.

3. Dispense the semi-frozen product until the product quits flowing. Cover the product container and place it in the cooler.

Important:

Do not use hot water. Damage to the freezer could occur.

4. Pour 2 gallons (7.6 L) of cold water into the hopper.
5. Follow with warm water until the freezer is rinsed.
6. Turn the selector switch to the "OFF" position.
7. Prepare a total of 4 gallons (15.2 liters) of sanitizing solution in a bucket. The sanitizing solution must be mixed according to manufacturer's instructions to yield 100ppm available chlorine solution (example: Stera-Sheen Green Label).

8. Remove the air bleed plug and pour the sanitizing solution into the hopper. When the sanitizing solution appears at the air bleed opening, replace the plug.

9. When the cylinder has filled with sanitizing solution, turn the selector switch to the "CLEAN" position and allow the beater to run for 5 minutes.

10. Place an empty container under the dispensing head, and slowly open the piston and drain the sanitizer out of the cylinder and hopper. Turn the selector switch to "OFF".

11. Refer to Section 6, Disassembly and Cleaning.



10 Slush/Cocktail Mix Information

10.1 Determining Product Consistency

1. For slush mix, use a clear, straight-sided glass of any size and draw off a full glass of frozen product (slush flavor bottles work well).
2. Allow the glass to stand for 2 minutes.
3. The product is of proper consistency when the upper $\frac{3}{4}$ is "slushy snow" and the lower $\frac{1}{4}$ is liquid.

10.2 Adjusting Product Consistency

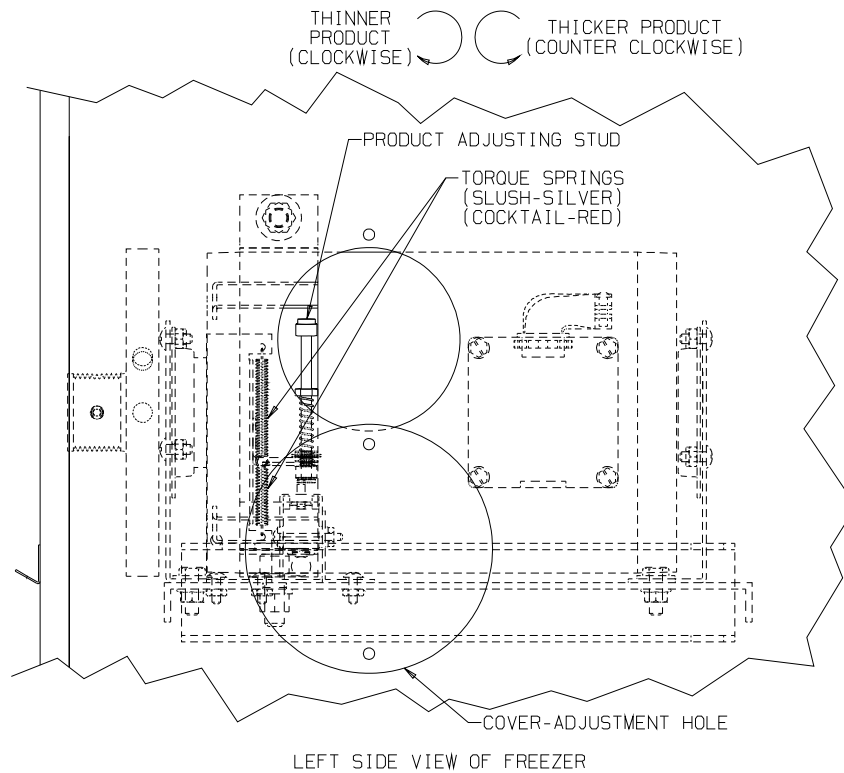


Figure 10-1

M01213

Product consistency has been preset at the factory. Further adjustment may be necessary to obtain your desired consistency. For instruction on adjusting product consistency, proceed with the following steps.

1. Allow the freezer to operate until the compressor shuts off. Dispense sufficient product to check consistency. (Refer to Section 10.1 Determining Product Consistency.)

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.

10.2 Adjusting Product Consistency (continued)

2. Find the small adjustment cover on the left side freezer panel.

3. Remove the top screw holding the cover and loosen the bottom, letting the cover swing away from the access hole.

4. Look into the access hole and you will see an arm extending from the drive motor (see figure 10-1.) The arm is held in place by springs on both the top and bottom. At the end of this arm is a nylon adjusting stud. This stud will adjust the consistency of the product.

5. If the product is **too thin**, turn the adjusting stud **counterclockwise** (up) 1/2 turn. If the product is **too thick**,

turn the adjusting stud **clockwise** (down) 1/2 turn. Close cover and reconnect power. Turn selector switch to "FREEZE" and wait until the compressor has cycled off.

6. Recheck the product consistency in 30 minutes. Repeat steps and recheck until proper consistency is obtained. Close cover and reinstall screw.

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.

10.3 Refractometer/Brix Reading

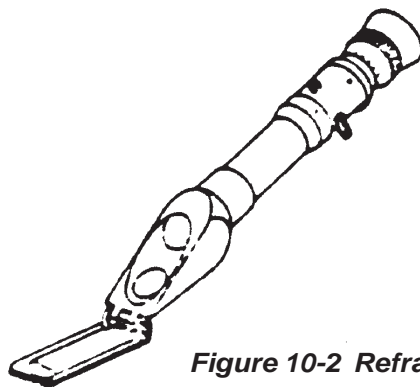


Figure 10-2 Refractometer

A refractometer measures soluble sugar content of mix, expressed in percentage weight. This is normally referred to as a "Brix Reading." The typical refractometer uses a scale from 0% to 32%.

Adjust the refractometer according to the manufacturer's instructions.

NOTE: A refractometer is a delicate instrument and must be handled with care. Never immerse the entire refractometer in a cold drink. Cooling the refractometer will cause it to give inaccurate readings. A refractometer cannot be used to read dietetic syrups.

1. Open the hinged side of the refractometer and place a few drops of mix on the slide.

Close the slide and look through the eye piece, holding the refractometer up against the light. A line will appear across a graduated scale which indicates the Brix level.

Acceptable Brix level is 11-13 on a refractometer.

NOTE: Never go below 11 on the Brix Reading.

Some experimentation may be necessary before correct Brix and serving temperature will be found. Generally, the higher the Brix reading the lower the serving temperature. Conversely, the lower the Brix reading, the higher the required serving temperature. If the complaint concerns product appearance, (ie. too runny or too stiff) always first take a Brix reading of the mix because variation in sugar content will have a direct bearing on actual freezing point.

11 Routine Maintenance

Electro Freeze recommends the following schedule to help maintain your equipment in *like-new* operating condition. Take the time to learn and perform these routine procedures and receive in return many years of valuable service from your freezer. Protect your investment.

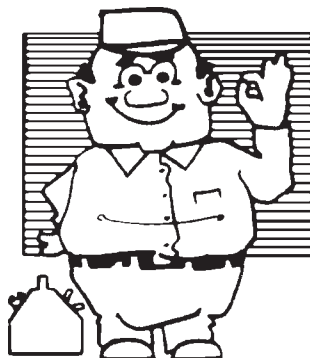


This safety symbol identifies procedures that could cause personal injury. If you are uncertain about a procedure and its safety, or have any questions on the safety precautions, contact your local Electro Freeze Distributor or H. C. Duke & Son, Inc.

Daily

1. Wipe all exterior surfaces of the freezer to remove any splattered mix.

NOTE: It is your responsibility to be aware of, and conform to, the requirements for meeting federal, state and local laws concerning cleaning intervals, cleaning and sanitizing procedures.



Weekly

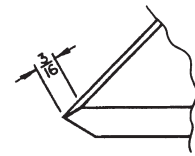
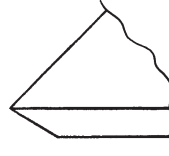
1. Disassemble and thoroughly clean, rinse, sanitize, air dry, reassemble and sanitize all parts from this freezer that come into contact with mix.

CAUTION



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

2. Clean the cylinder and drain tube with the appropriate brushes.
3. Upon cleaning, inspect and lubricate all seals and O-rings as described that come into contact with mix. Replace as needed.
4. Carefully inspect all parts for wear, including seals, O-rings, and blades. Replace as required.



Replace blades if worn 3/16" or more.

5. Check the beater shank and drive shaft for wear.



GOOD SHAFT TANG



WORN SHAFT TANG

A worn coupling will have a non-parallel shape on the drive opening.

11 Routine Maintenance (continued)

Monthly

A. Test Head Switch.

The head switch feature is designed to prevent the beater shaft from being accidentally activated. It is essential that the proper operation of this switch be verified on a routine basis. Use the following instructions to test for proper operation:

1. Be sure all switches are in the "OFF" position.
2. Disconnect the main power supply.
3. Remove the dispense head and beater shaft assembly.
4. Connect the main power supply.
5. Turn the selector switch to the "CLEAN" position.

6. Look inside the freezing cylinder toward the rear. The drive shaft coupling should **NOT** be turning. Turn the switch off and disconnect the main power supply.

7. If the drive shaft coupling is turning, or you are unable to determine whether or not the shaft is turning, turn the switch to the "OFF" position, disconnect the main power supply and contact your Electro Freeze Distributor for service. **DO NOT** place the freezer in service until the problem has been fixed.

B. Water Condenser.

Check the outlet water temperature of water-cooled condensers at the floor drain. Water temperatures should be about 95°F with a 70°F water inlet temperature.



CAUTION
Moving parts. **DO NOT** place hands in the freezing cylinder. Severe personal injury could result.

Accessory - Lighted Sign Changing Light Bulb



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.

1. Remove screws holding top cover of light assembly.
2. Slide out decal and plastic lens to expose light.
3. Rotate light bulb horizontally to remove from sockets.
4. Replace with identical light of same rating and reassemble top cover.

11 Routine Maintenance (continued)

Quarterly

A. Clean Condenser Fins.

1. On air-cooled freezers have the condenser fins cleaned by you authorized service technician

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

Annually

Contact your *Electro Freeze* Distributor to perform the following services:

1. Have qualified refrigeration technician inspect and clean the beater drive motor.
2. Have qualified refrigeration replace drive belt.
3. Have qualified refrigeration clean the inside of the freezer including base, side panels, condenser, etc.
4. Have qualified refrigeration check water-cooled condenser and flush clean if necessary (water-cooled only).
5. Have qualified refrigeration check the refrigeration system and make any necessary adjustments.

USE ONLY ORIGINAL OR AUTHORIZED REPLACEMENT PARTS WITH THIS FREEZER.
(See your Illustrated Replacement Parts Manual)

Should you have any questions on items that are not included in this maintenance schedule, or problems where service assistance is needed, please call your local *Electro Freeze* Distributor or H. C. Duke & Son, Inc., *Electro Freeze* Service Department, for factory service at **(309) 755-4553** OR **(800)-755-4545**.

Winter Storage

To protect the unit during seasonal shutdown, it is important to store the cocktail/slush freezer properly. Please use the following procedures:

1. Disconnect all power to the freezer.
2. Disassemble and wash all parts that come into contact with the mix with a warm, mild detergent solution. Rinse in clear water and dry all parts thoroughly.
3. Store the loose parts, such as the parts in the head assembly and beater assembly, in a safe dry place.
4. Do not lay heavy objects on the plastic or rubber parts.
5. Cover the freezer and all loose parts to protect them from dust or other elements that could contaminate them while in storage. Place the freezer in a dry location.
6. Have air-cooled condenser fins cleaned by an authorized service technician to remove all forms of dirt, lint, and dust.

Important:
For water-cooled freezers, failure to purge the freezer of water may result in severe damage to the cooling system.

7. **Call an authorized service technician to perform this step.** For water-cooled freezers, disconnect the water supply. Use compressed air to blow out all remaining water in the condenser.

12 Troubleshooting Tables



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.

Important:







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



12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Freezer does not operate.	1. Freezer unplugged.	1. Plug in freezer.
	2. Fuse or breaker blown at main disconnect.	2. Have service technician make sure your freezer is connected to a separate circuit independent from any other electrical equipment. Have service technician check fuse or breaker size and check for low voltage; if not within 10% of nameplate rating call the power company.
	3. Beater motor out on overload. 	3. Allow motor to cool off, reset circuit breaker, and check product consistency. See section 10.2, Adjusting Product Consistency.
	4. Out on high pressure.	4. Contact your Electro Freeze Distributor for service.
	5. Component failure.	5. Contact your Electro Freeze Distributor for service.
Product will not freeze.	1. Improper mixing of product.	1. Follow mixing instructions on product label.
	2. Component failure.	2. Contact your Electro Freeze Distributor for service.
	3. Upper torque spring not connected. 	3. Install torque spring. See Section 10.2, Adjusting Product Consistency.
Product too thin.	1. Improper mixing of product.	1. Follow mixing instructions on product label.
	2. Upper torque spring not connected. 	2. Install torque spring. See Section 10.2, Adjusting Product Consistency.
	3. Adjustment screw not properly set. 	3. Adjust screw to proper consistency of product. See section 10.2, Adjusting Product Consistency.
	4. Component failure.	4. Contact your Electro Freeze Distributor for service.

12 Troubleshooting Tables



PROBLEM	PROBABLE CAUSE	REMEDY
Product too thick.	1. Improper mixing of product.	1. Follow mixing instructions on product label
	2. Adjustment screw not properly set. 	2. Adjust screw for proper consistency. See Section 10.2, Adjusting Product Consistency.
	3. Lower torque spring not connected. 	3. Install torque spring. See Section 10.2, Adjusting Product Consistency.
	4. Component failure.	4. Contact your Electro Freeze Distributor for service.
Leakage of product from drain tube.	1. Cup seal leaking or improperly installed. 	1. Replace cup seal or install properly.
	2. Beater shaft assembly damaged.	2. Contact your Electro Freeze Distributor for service
Product leaking around head.	1. Head quad ring defective. 	1. Replace quad ring.
	2. Hand knobs not drawn up properly.	2. Tighten hand knobs (hand tighten only).
	3. Damaged or worn o-ring on the plunger assembly. 	3. Replace and lubricate o-rings on plunger assembly.
	4. Damaged head assembly.	4. Contact your Electro Freeze Distributor for service
Freezer vibrates.	1. Insufficient supply of mix.	1. Fill hopper at least 1/3 full – keep hopper this full at all times.
	2. Improper mixing of product.	2. Follow mixing instructions on product label.
	3. Worn blades. 	3. Replace blades.
	4. Freezer not level.	4. Level freezer.
	5. Low on refrigerant.	5. Contact your Electro Freeze Distributor for service

12 Troubleshooting Tables


PROBLEM	PROBABLE CAUSE	REMEDY
Poor or slow product recovery.	1. Dirty or blocked condenser, restricted air flow and/or high room temperature.	1. Remove obstruction and/or lower room temperature. Have condenser cleaned by your Electro Freeze Distributor.
	2. Dispensing too much product too fast.	2. Check freezer capacity rating.
	3. Product too warm going into freezer.	3. Precool product – DO NOT FREEZE.
	4. Component failure.	4. Contact your Electro Freeze Distributor for service
Product in hopper freezes.	1. Component out of adjustment or component failure.	1. Contact your Electro Freeze Distributor for service
Product temperature in hopper rises above 45°F.	1. Product put in hopper was not precooled.	1. Precool product – DO NOT FREEZE.
	2. Component out of adjustment or component failure	2. Contact your Electro Freeze Distributor for service.
Compressor starts, but remains in start windings. (single phase only)	1. Low line voltage.	1. Check for other equipment on the same circuit. Call power company or your Electro Freeze Distributor.
	2. Improperly wired.	2. Contact your Electro Freeze Distributor for service
	3. Current relay defective.	3. Contact your Electro Freeze Distributor for service
	4. Start capacitor weak.	4. Contact your Electro Freeze Distributor for service
	5. High discharge pressure.	5. Check air condenser. If it needs to be cleaned contact your Electro Freeze Distributor.



12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Unit operates long or continuously.	1. Shortage of refrigerant.	1. Contact your Electro Freeze Distributor for service.
	2. Dirty condenser. 	2. Have condenser cleaned by your Electro Freeze distributor.
	3. Moisture in system.	3. Contact your Electro Freeze Distributor for service.
	4. Compressor failing.	4. Contact your Electro Freeze Distributor for service.
	5. Using too much alcohol.	5. Check formula and adjust. (No more than 8% alcohol.)
	6. Setting too cold.	6. Adjust warmer
Contactors chatters or coil burned out.	1. Low line voltage	1. Check for other equipment on the same circuit .Contact your Electro Freeze Distributor to check voltage.
Noisy Compressor.	1. Tubing rattling.	1. Contact your Electro Freeze Distributor for service.
	2. Motor off of internal springs. Springs broken or bent.	2. Contact your Electro Freeze Distributor for service.
Compressor will not start – hums intermittently (cycling on overload).	1. Improperly wired.	1. Contact your Electro Freeze Distributor for service.
	2. Low line voltage.	2. Contact your Electro Freeze Distributor to check voltage. Check for other equipment on the same circuit.
	3. Open starting capacitor or current relay.	3. Contact your Electro Freeze Distributor for service.
	4. High discharge pressure.	4. Check air condenser. If it needs to be cleaned contact your Electro Freeze Distributor.
	5. Setting too warm 	5. Adjust stud to proper consistency . See paragraph 10.2, Adjusting Product Consistency.

12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Head pressure too high.	1. Refrigerant overcharge.	1. Contact your Electro Freeze Distributor for service
	2. Air in system.	2. Contact your Electro Freeze Distributor for service
	3. Dirty condenser (air cooled). 	3. Have condenser cleaned by your Electro Freeze Distributor.
	4. Freezer location too warm.	4. Relocate freezer away from restriction. Be sure nothing is placed against the back of the freezer.
	5. Restricted condenser (water cooled)	5. Contact your Electro Freeze Distributor for service
	6. Defective water valve. (water cooled)	6. Contact your Electro Freeze Distributor for service
Start capacitors burned out.	1. Voltage too low.	1. Check for other equipment on the same circuit. Contact your Electro Freeze Distributor for service.
	2. Improper capacitor.	2. Contact your Electro Freeze Distributor for service.



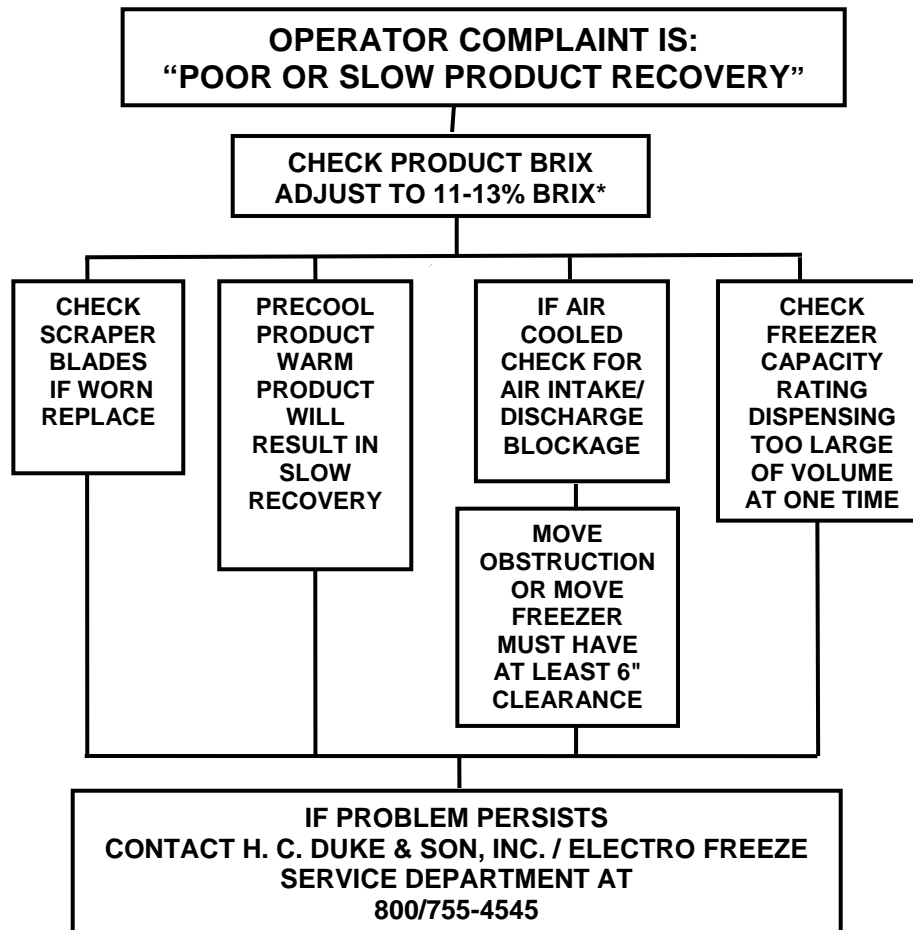
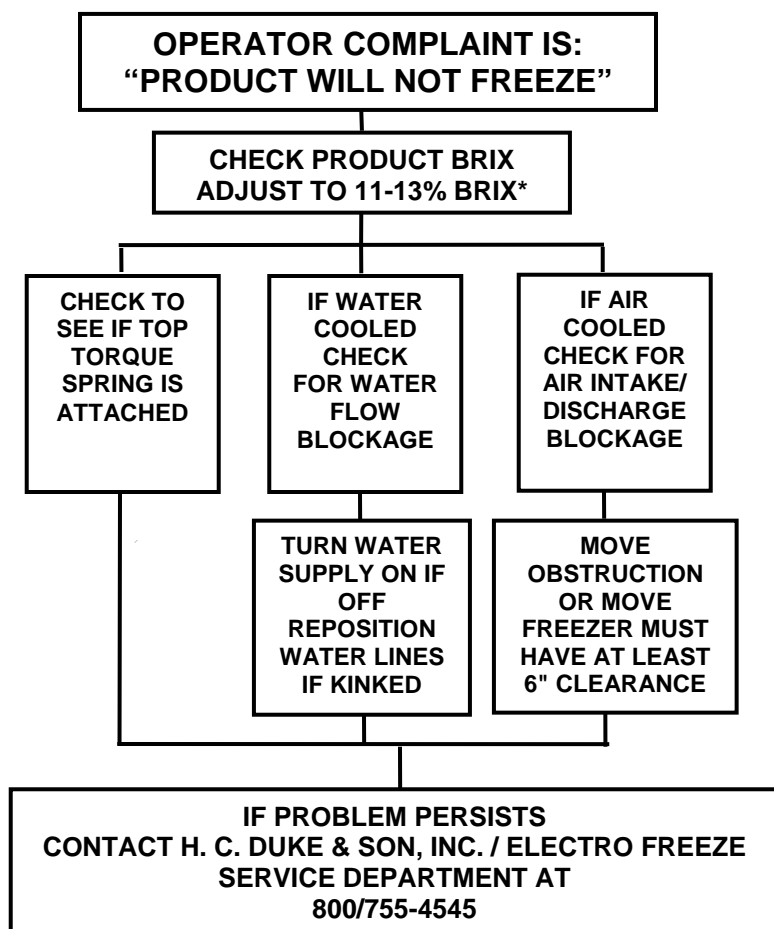
**QUALITY PARTS
PROTECT
YOUR
INVESTMENT**

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



Slush Freezer Troubleshooting Chart

ELECTRO FREEZE

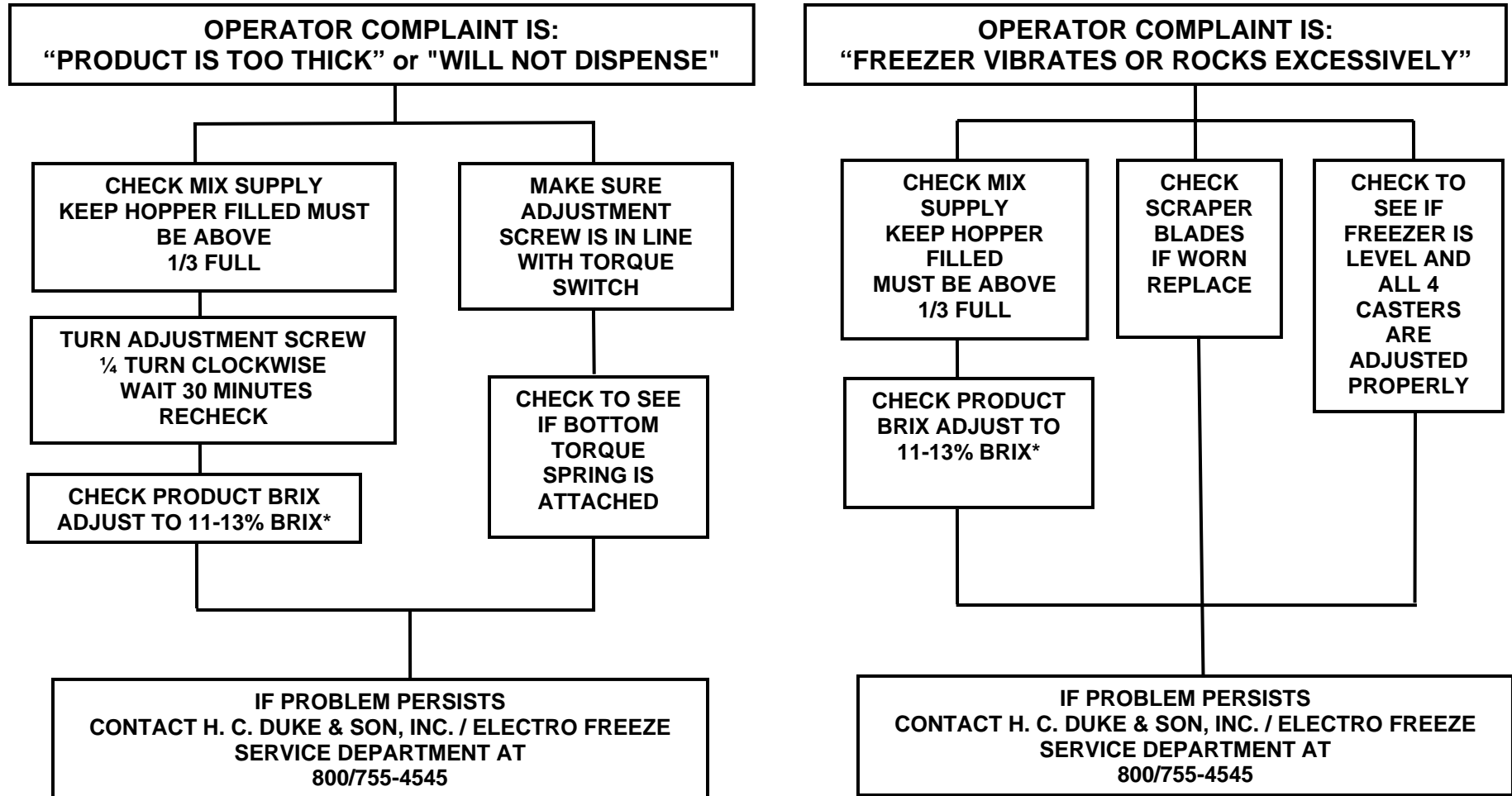


* ON FREEZERS WITH AUTO-FILL SYSTEM, BRIX FILL STATION TO PRODUCT SUPPLIERS RECOMMENDATION (MINIMUM 11% BRIX).



Slush Freezer Troubleshooting Chart

ELECTRO FREEZE



* ON FREEZERS WITH AUTO-FILL SYSTEM, BRIX FILL STATION TO PRODUCT SUPPLIERS RECOMMENDATION (MINIMUM 11% BRIX).

ELECTRO FREEZE®

REPLACEMENT PARTS MANUAL with ILLUSTRATIONS



**KEEP YOUR FREEZER IN EXCELLENT CONDITION. ALWAYS CONTACT
YOUR ELECTRO FREEZE DISTRIBUTOR FOR REPLACEMENT PARTS.**

Replacement Parts Orders

You must have the serial number of your freezer when ordering parts — parts may differ with a particular serial number of the same model.

Parts are listed using terminology that best fits the function of the part. The illustrations in this section will help you to find the correct part number and description. The alphabetized parts list can be used to verify part numbers pertaining to the serial number of your unit.

Place your parts order through your local authorized Electro Freeze Distributor.

Name: _____
 Address: _____
 Phone: _____

If you require any further assistance, contact H. C. Duke & Son, Inc., *Electro Freeze* as follows:



Phone: (309) 755-4553
 (800) 755-4545

FAX: (309) 755-9858

E-mail: service@hcduke.com

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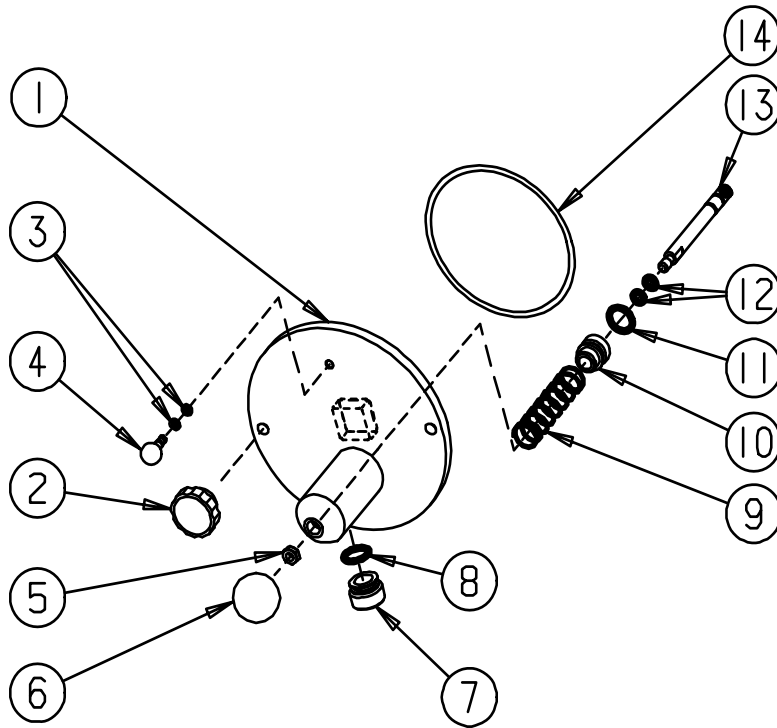
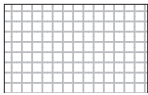


Figure 1 Door (Head) Assembly

Item	Part No.	Description
*	HC117897	Door (Head)-Assy. Complete
1	HC119674	Door (Head)-Assy. Pull Valve (Door ONLY)
2	HC162634	Knob-Fluted Torque Black 3/8-16 (Hand)
2A	HC114341	Stud-Assy. Cylinder 1-15/16 in. (not shown)
3	HC160561	O-Ring (Plug)
4	HC115416	Plug-Assy. Air Bleed
5	HC139274	Nut-Piston Rod
6	HC162629	Knob-Ball 3/8-10 THD Black
7	HC136249-01	Outlet-Valve (Nozzle)
8	HC160582	O-Ring (Outlet Valve)
9	HC162319	Spring-Pull Valve
10	HC136253	Piston-Valve
11	HC160582	O-Ring (Plunger)
12	HC160610	O-Ring (Rod)
13	HC113999	Rod-Assy. Piston
14	HC160504	Gasket

* Includes all items above except item #2 and 2A.

Not Shown:

[HC116410](#) Kit-Dispense Head Switch

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

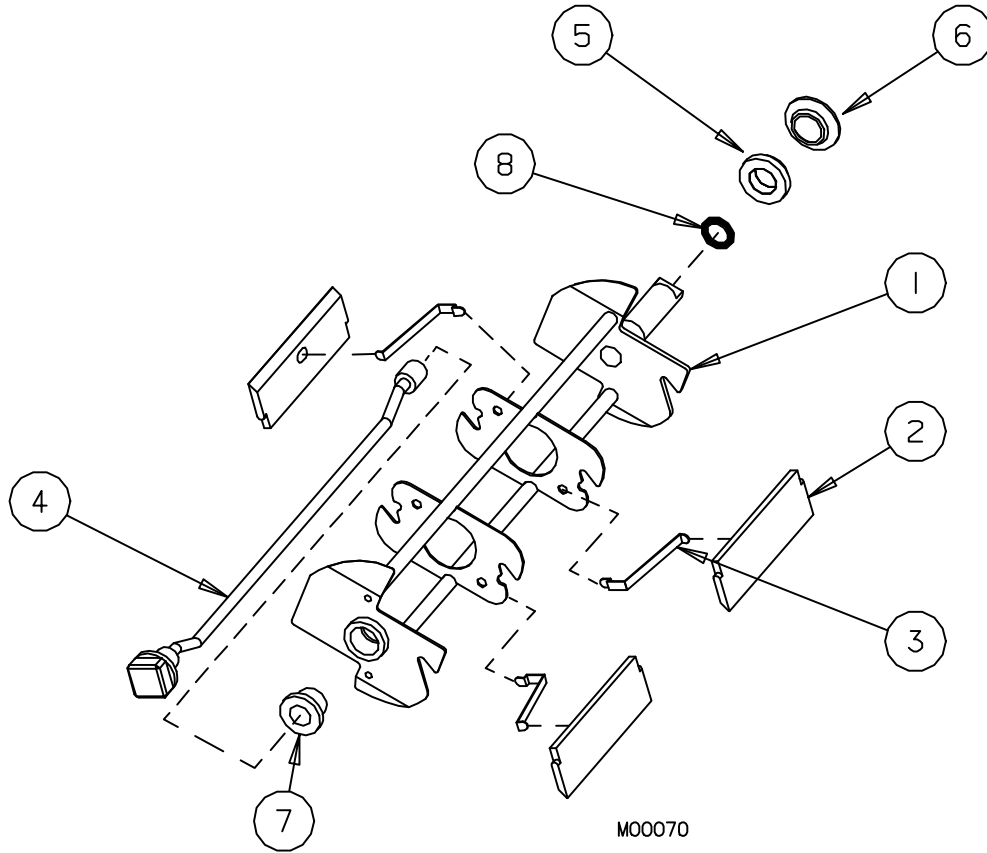


Figure 2 Reel (Beater Shaft) Assembly

Item	Part No.	Description
1	HC118786	Reel-Assy. 6 in. Dia 26 in. Long (Beater Shaft)
2	HC139771	Blade-Scraper
3	HC134649	Spring-Blade
4	HC118784	Breaker-Assy.
5*	HC139006	Washer-Shaft Seal
6*	HC160557	Seal-Beater Shaft
7	HC138947	Bushing-Reel (Shaft)
8	HC160597	Quad Ring

* Can be ordered together as:
 HC117215 Seal-Assy. Shaft

Use only original or authorized replacement parts with this freezer.
 Use of unapproved parts will void warranty.

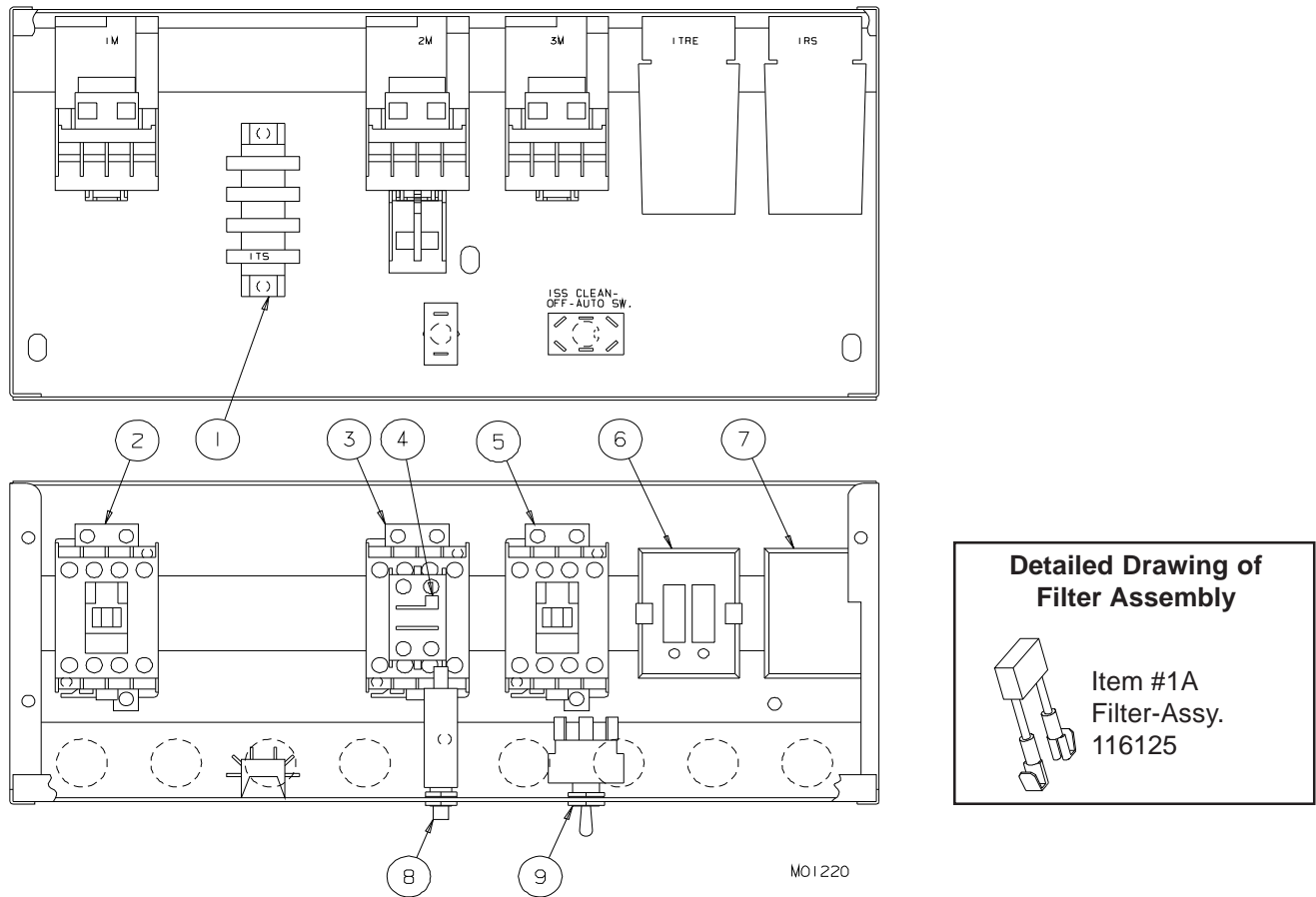


Figure 3 Electrical Box

Item	Part No.	Description
1	HC150795	Strip-Terminal
1A	HC116125	Filter-Assy. (See Detailed Drawing)
2	HC150155	Contacteur-IEC 23A 208-230V C (Beater)
2A	HC150156	Coil-A/B 208-230V (Replacement) (not shown)
3	HC150155	Contacteur-IEC 23A 208-230V C (Compressor)
3A	HC150156	Coil-A/B 208-230V (Replacement) (not shown)
4	HC150146	Deck-Adder 1 NO 1 NC
5	HC150155	Contacteur-IEC 23A 208-230V C (Hopper)
5A	HC150156	Coil-A/B 208-230V (Replacement) (not shown)
6	HC150262	Timer-DOM/DOB Adj. 230VAC
7	HC150202	Indicator-Mix Level
7A	HC150119	Socket-Octal
7B	HC150120	Clip-Retainer (Set of 2)
7C	HC150540	Light-Indicator
8	HC150472	Breaker-Circuit 2.5 Amps*
9	HC150463	Switch-Toggle DPDT Ctr OFF (Selector)

Not Shown: Optional Night Switch Parts

- HC150268 Timer-Recycle 230 VAC
- HC150190 Module-Varitime 1MEG 10-1000S
- HC150275 Module-Varitime 1M 1-100M
- HC150461 Switch-Toggle DPDT (Night Switch)

* Check amperage marked on circuit breaker — if different than 2.5 Amps-call to get proper part.

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

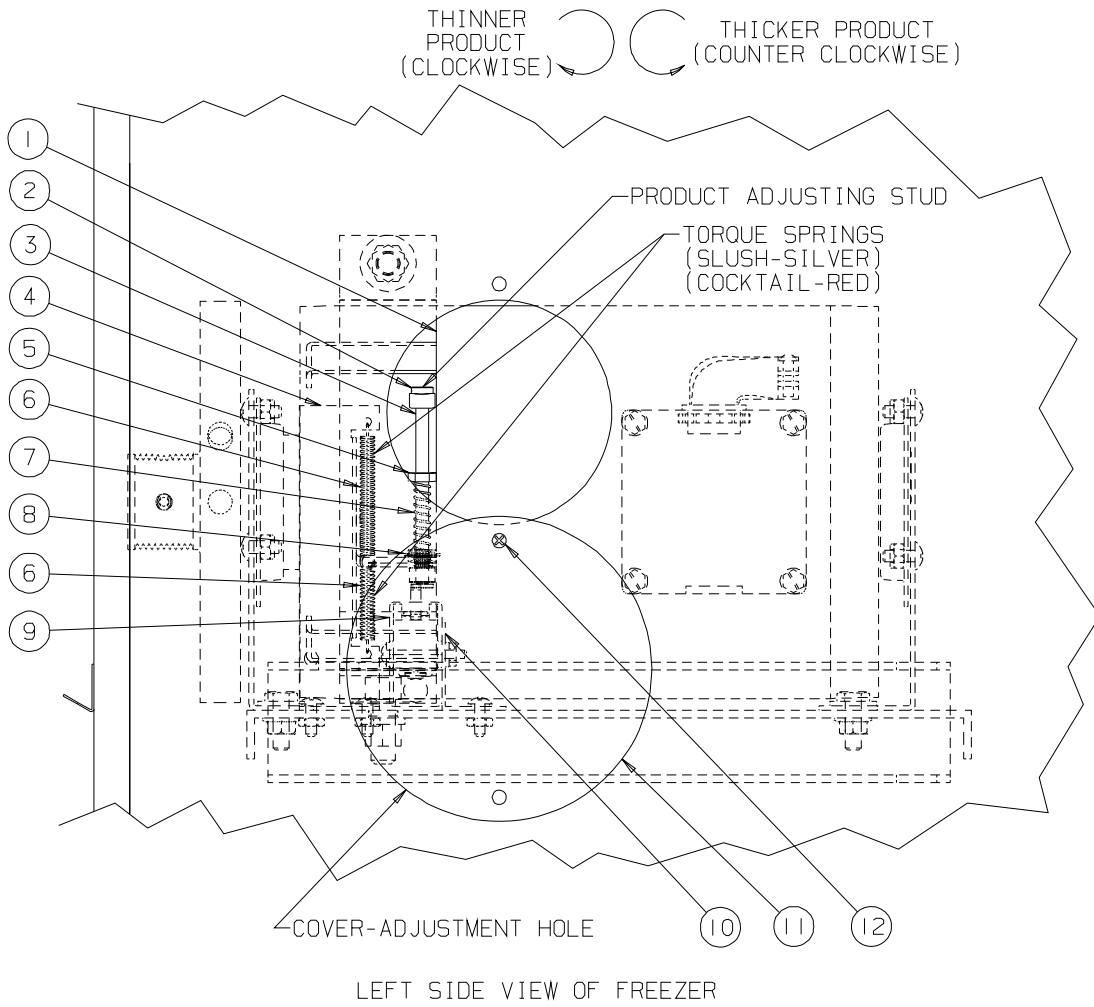
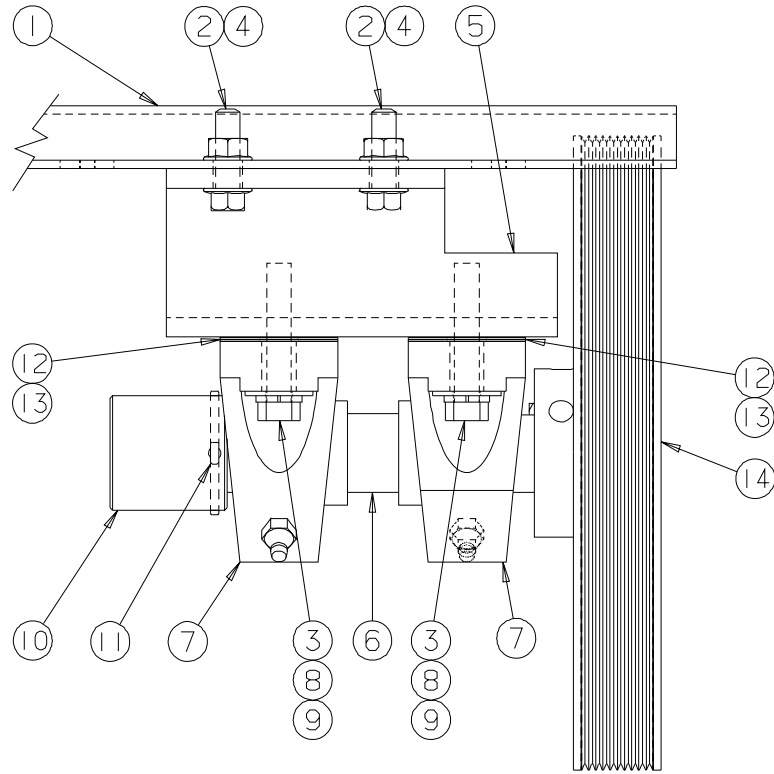


Figure 4 Consistency Control

Item	Part No.	Description
1	HC116968	Band-Assy. Motor
2	HC160092	Nut-Cap #10-32 Nylon
3	HC139544	Stud-Adjusting
4	HC134661	Bracket-Spring Torque Control
4A	HC160138	Washer-Flat #10 ZN (Adjusting Screw)
5	HC160344	Nut-Hex #10-32 ZN
6	HC162338	Spring-Extension Torque
7	HC162346	Spring-Adjusting Screw/Stud
8	HC160138	Washer-Flat #10 ZN
9	HC136388	Switch-Torque
10	HC134632	Bracket-Switch Mounting
11	HC136959	Cover-Adjustment Hole (Access)
12	HC160076	Screw-TRPM #10-24 x 1/2 SST (Cover Access)

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**



M01219

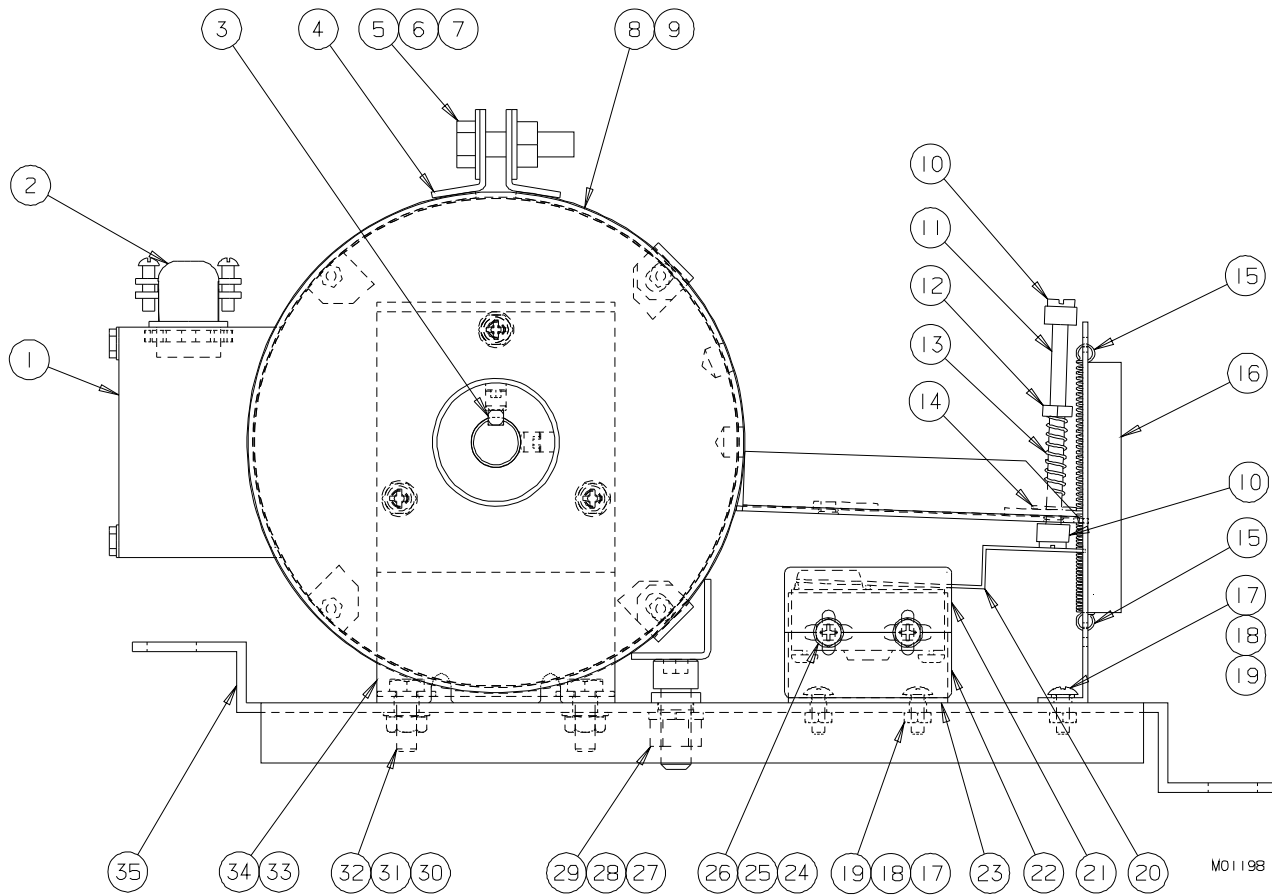
Figure 5 Drive Shaft and Bearing Assembly

Item	Part No.	Description
1	HC118777	Plate-Assy. Cylinder and Bearing Mtg
2	HC159944	Screw-HXSF 5/16-18 X 1 ZN
3	HC160131	Washer-Flat 5/16 ZN
4	HC159947	Nut-HXSF 5/16-18 ZN
5	HC139772	Plate-Bearing Mounting
6	HC139774	Shaft-Drive
7	HC153030	Bearing-1 In. Pillow Block (w/ring and collar)
8	HC160347	Screw-HXHC 5/16-18 x 1-3/8 ZN
9	HC160142	Washer-Lock 5/16 ZN
10	HC133415	Cap-Coupling
11	HC159248	Pin-Cotter 2-1/4 x 1/8 ZN
12	HC135380	Shim-Bearing
13	HC135381	Shim-Bearing 24GA
14	HC153644	Sheave-1 Bore 8.00 OD/PD (Driven)
14A	HC153323	Key-Drive 1/4 SQ x 1-1/2

Not Shown:

- HC118776 Bar-Assy. Bearing Alignment Loaner
- HC118776-01 Bar-Assy. Bearing Alignment

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**



M01198

Figure 6 Motor and Bearing Assembly (sheet 1 of 2)

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

Figure 6 Motor and Bearing Assembly (sheet 2 of 2)

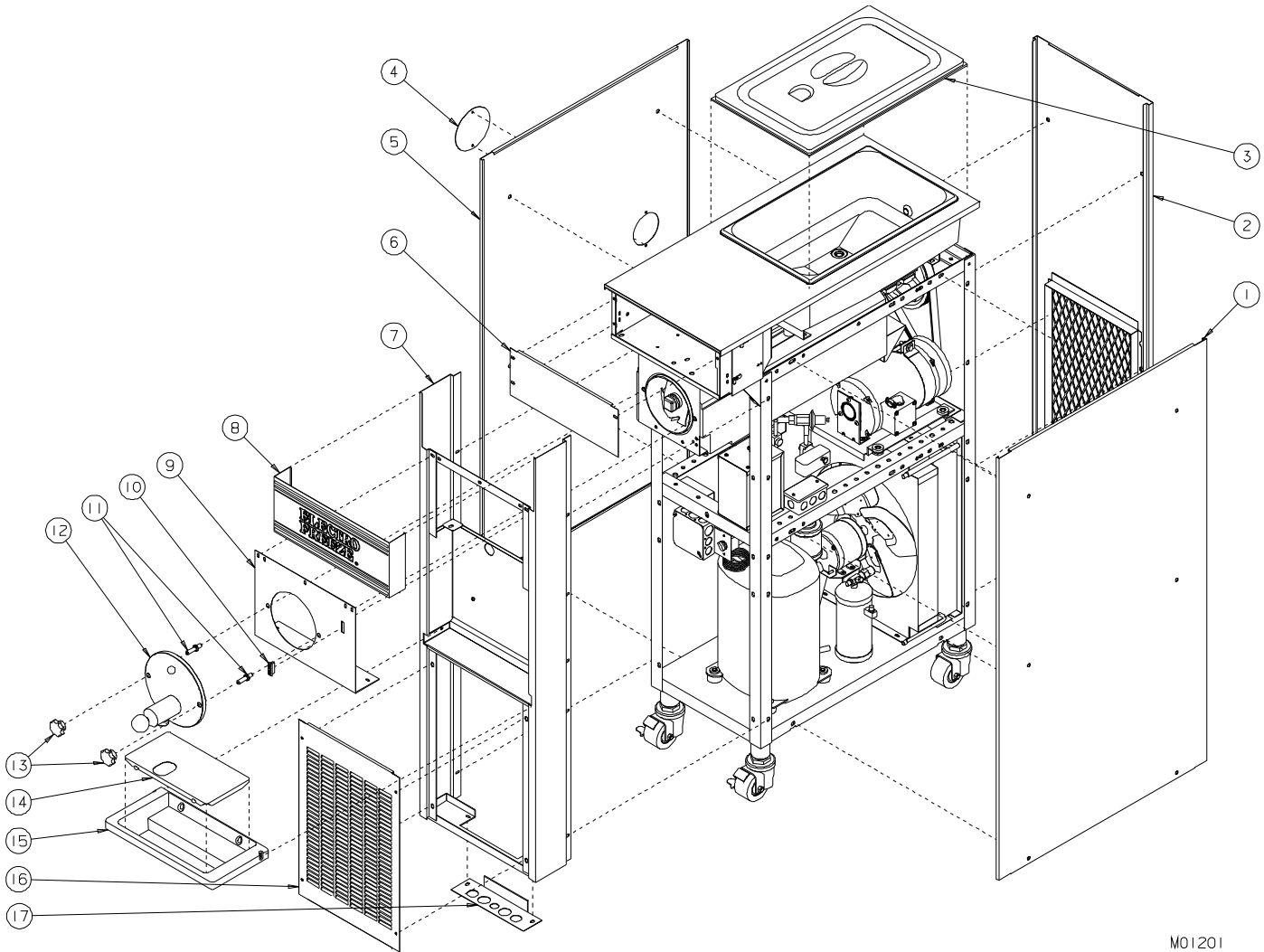
Item	Part No.	Description
1	HC117342	Motor & Bearing-Assy. Field Replacement includes motor and: HC150293 Capacitor-Run HC150294 Capacitor-Start HC117282 Bearing-Assy. Retainer (Front) HC117283 Bearing-Assy. Retainer (Rear)
2	HC150705	Connector-3/8 x 90°
3	HC153322	Key-Drive 3/16 SQ x 1-1/2
4	HC116968	Band-Assy. Motor
5	HC160010	Screw-HXHC 5/16-18 x 1-1/4 ZN
6	HC160131	Washer-Flat 5/16 ZN
7	HC159220	Nut-Lock-5/16-18 ZN
8	HC153635	Flywheel-Driver Sheave
9	HC160495	Screw-SK Set 1/4-20 x 1/4 BKOX
10	HC160092	Nut-Cap #10-32 Nylon
11	HC139544	Stud-Adjusting
12	HC160344	Nut-Hex #10-32 SST
13	HC162346	Spring-Adjusting Screw/Stud
14	HC160138	Washer-Flat #10 ZN (Adjusting Screw)
15	HC162338	Spring-Extension Torque
16	HC134661	Bracket-Spring Torque Control
17	HC160049	Screw-TRPM #8-32 x 1/2 SST (Space)
18	HC160470	Washer-Lock #8 ZN
19	HC160102	Nut-Hex #8-32 ZN
20	HC136388	Switch-Torque
21	HC135003	Cover-Switch Top
22	HC135004	Cover-Switch Bottom
23	HC134632	Bracket-Switch Mounting
24	HC160156	Screw-TRHM #6-32 x 1-1/4 SST
25	HC160393	Washer-Flat #6 Brass
26	HC160309	Nut-Hex #6-32 ZN
27	HC160013	Screw-HXHC 3/8-16 x 1 ZN
28	HC160143	Washer-Lock 3/8 ZN
29	HC160453	Nut-Hex 3/8-16 ZN
30	HC160021	Screw-HXHC 1/4-20 x 3/4 ZN (Pulley Side)
30A	HC159950	Screw-HXHC 1/4-20 x 1/2 ZN (Shaft Side)
31	HC160130	Washer-Flat 1/4 ZN (Rear)
32	HC159951	Nut-HXSF 1/4-20 ZN
33	HC117282	Bearing-Assy. Retainer (Front) HC153010 Bearing-Motor Mount
34	HC117283	Bearing-Assy. Retainer (Rear) HC153010 Bearing-Motor Mount
35	HC118903	Plate-Assy. Motor ADJ

Not Shown:

[HC153124](#) Belt-Poly V (Drive)

Use only original or authorized replacement parts with this freezer.
 Use of unapproved parts will void warranty.

Figure 7 Panels - Air Cooled & Air Cooled Remote (Page 1 of 2)



M01201

Hardware for 812 Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Dispense	HC160076	HC159132	n/a	n/a
Front	HC160076	HC159132	n/a	HC159067
Rear	HC160048	HC160117	n/a	n/a
Side	HC159219	HC160114	HC138456	n/a
Trimstrip	HC160076	n/a	n/a	n/a
n/a – Not Applicable				

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Figure 7 Panels - Air Cooled & Air Cooled Remote (Page 2 of 2)

Item	Part No.	Description
1	HC132277	Panel-Side RH
2	HC118788	Panel-Assy. Rear (AC)
	HC140258	Panel-Upper Rear 16 in. (ACR)(Not Shown)
	HC140259	Panel-Lower Rear (ACR)(Not Shown)
3	HC196121	Cover-Hopper
4	HC136959	Cover-Adjustment Hole
5	HC138810	Panel-Side LH
6	HC116357	Cover-Assy. Electrical Box
7	HC116994	Panel-Assy. Front
	HC159175	Catch-Bullet .268 OD x .343 ST (Drip Tray)
	HC160289	Nut-Push Round .265
8	HC115321	Trimstrip-Assy. EF Decal 16 in.
8A	HC117899	Trimstrip-Assy. Sonic 16 in. (not shown)
9	HC137224-01	Panel-Dispense
10	HC150540	Light-Indicator 230v
11	HC114341	Stud-Assy. Cylinder 1-15/16
12	HC117897	Door(Head)-Assy. Complete (See Figure 1)
13	HC162634	Knob-Fluted Torque Black 3/8-16
14	HC116980	Insert-Assy. Drip Tray
	HC199030	Bumper-Rubber
15	HC196119	Tray-Drip 16 in. Black
16	HC136944	Panel-Lower Front 16 in.
or	HC140489	Panel- Lower Front (Optional with air filter)(AC)
16A	HC165414	Nameplate-EF Large
17	HC132683	Panel-Service

Not Shown:

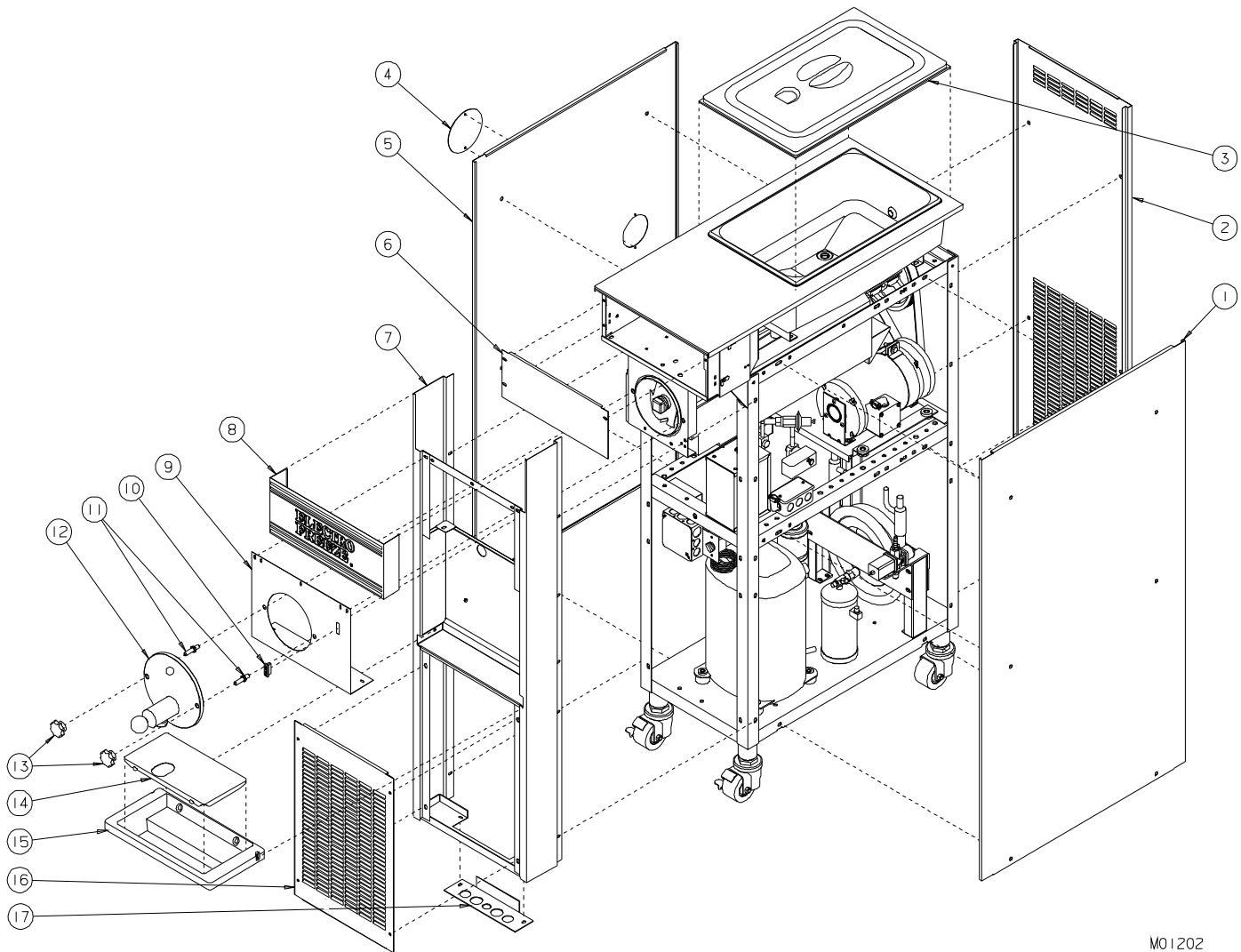
- HC155137 Filter-Air Cleanable (Optional with air filter)(AC)
 HC162548 Adhesive-Filter Spray (Optional with air filter)(AC)

- LH = Left hand side of the freezer facing the front of the freezer.
 RH = Right hand side of the freezer facing the front of the freezer.
 AC = Air Cooled
 ACR = Air Cooled Remote

812 Panel Decals & Labels	
Part No.	Description
HC165025	Beater Warning
HC165065	Cleaning Instructions
HC165093	Clear Overlay
HC165126	Panel Removal
HC167006	Pre-cooled Product
HC164081	Label-Trimstrip
HC165188	Trimstrip EF Logo 16"
HC165175	Trimstrip Sonic 16"
HC169053	Ventilation 6" RR

Use only original or authorized replacement parts with this freezer.
 Use of unapproved parts will void warranty.

Figure 8 Panels - Water Cooled (Page 1 of 2)



M01202

Hardware for 812 Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Dispense	HC160076	HC159132	n/a	n/a
Front	HC160076	HC159132	n/a	HC159067
Rear	HC160048	HC160117	n/a	n/a
Side	HC159219	HC160114	HC138456	n/a
Trimstrip	HC160076	n/a	n/a	n/a
n/a – Not Applicable				

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Figure 8 Panels - Water Cooled (Page 2 of 2)

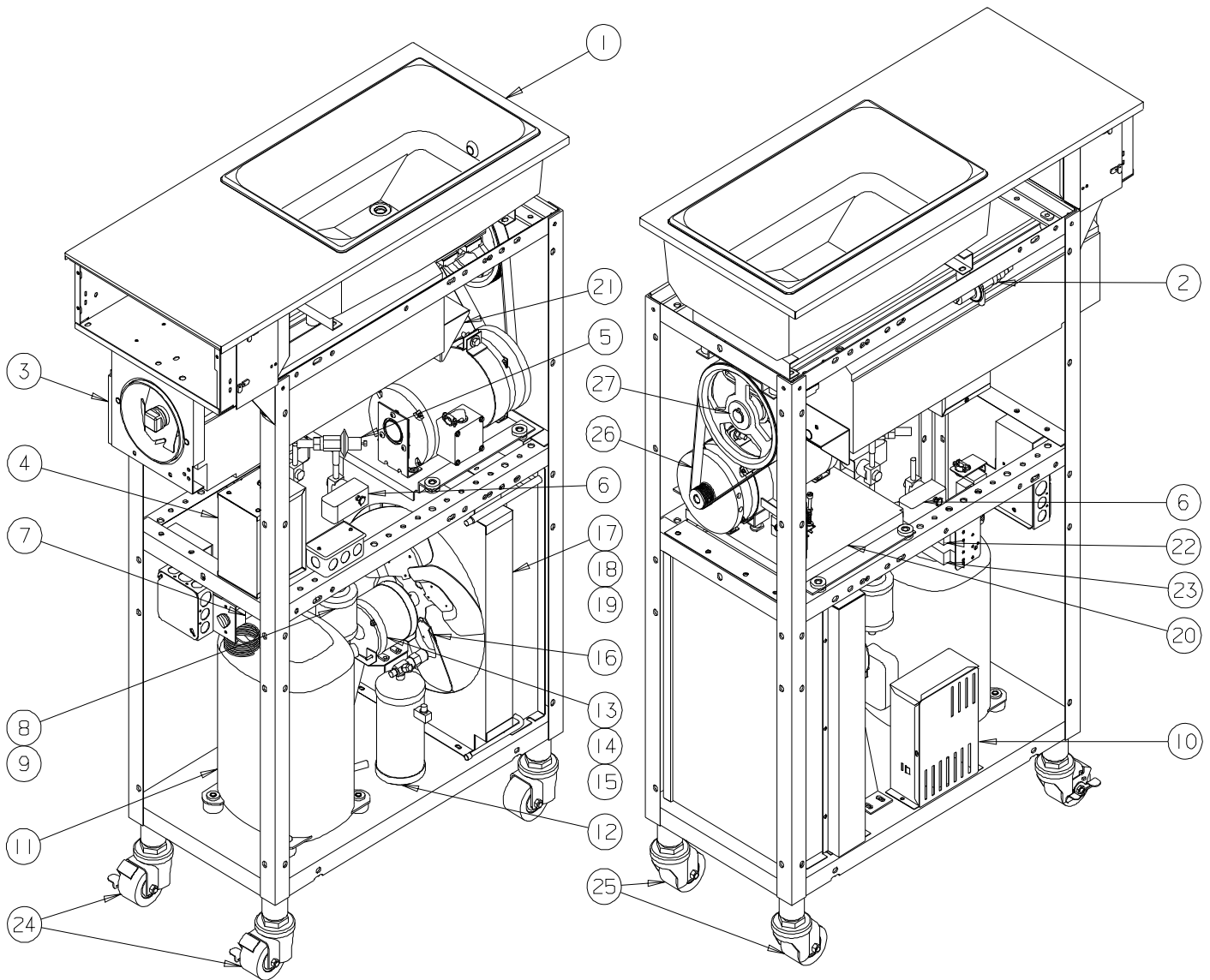
Item	Part No.	Description
1	HC132277	Panel-Side RH
2	HC139856	Panel-Rear
3	HC196121	Cover-Hopper
4	HC136959	Cover-Adjustment Hole
5	HC138810	Panel-Side LH
6	HC116357	Cover-Assy. Electrical Box
7	HC116994	Panel-Assy. Front
	HC159175	Catch-Bullet .268 OD x .343 ST (Drip Tray)
	HC160289	Nut-Push Round .265
8	HC115321	Trimstrip-Assy. EF Decal 16 in.
8A	HC117899	Trimstrip-Assy. Sonic 16 in. (not shown)
9	HC137224-01	Panel-Dispense
10	HC150540	Light-Indicator 230v
11	HC114341	Stud-Assy. Cylinder 1-15/16
12	HC117897	Door(Head)-Assy. Complete (See Figure 1)
13	HC162634	Knob-Fluted Torque Black 3/8-16
14	HC116980	Insert-Assy. Drip Tray
	HC199030	Bumper-Rubber
15	HC196119	Tray-Drip 16 in. Black
16	HC136944	Panel-Lower Front 16 in.
16A	HC165414	Nameplate-EF Large
17	HC132683	Panel-Service

LH = Left hand side of the freezer facing the front of the freezer.
 RH = Right hand side of the freezer facing the front of the freezer.

812 Panel Decals & Labels	
Part No.	Description
HC165025	Beater Warning
HC165065	Cleaning Instructions
HC165093	Clear Overlay
HC165126	Panel Removal
HC167006	Pre-cooled Product
HC164081	Label-Trimstrip
HC165188	Trimstrip EF Logo 16"
HC165175	Trimstrip Sonic 16"
HC169053	Ventilation 6" RR

**Use only original or authorized replacement parts with this freezer.
 Use of unapproved parts will void warranty.**

Figure 9 Assembly Views Air Cooled and Air Cooled Remote (Page 1 of 2)



FRONT ISOMETRIC VIEW

REAR ISOMETRIC VIEW

M01207

Item	Part No.	Description
1	HC118783	Panel-Assy. Hopper & Top
2	HC155449	Valve-Automatic Expansion (Hopper)
2A	HC165531	Insulator-Expansion Valve
3	HC118779	Cylinder-Assy. Complete
4		Box-Assy. Capacitor & Relay (Motor)
	HC150293	Capacitor-Run
	HC150294	Capacitor-Start
5	HC155490	Valve-Automatic Expansion (Cylinder)
5A	HC165531	Insulator-Expansion Valve

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Figure 9 Assembly Views Air Cooled and Air Cooled Remote (Page 2 of 2)

Item	Part No.	Description
6	HC155488	Valve-Solenoid 208/240v
6A	HC151477	Coil-Solenoid Field 208-240v MKC-1TS
7	HC161202	Thermostat-5° Fixed Differential
8	HC155054	Drier-Filter 16 cu in
9	HC155059	Glass-Sight
10	HC151362	Box-Assy. Capacitor & Relay
	HC150398	Capacitor-Start
	HC150399	Capacitor-Run
	HC150401	Relay
10A	HC117821	Cover-Assy. Capacitor & Relay Box
11	HC118234	Compressor-Assy. 208-230-1-60 AV includes compressor and:
	HC150398	Capacitor-Start
	HC150399	Capacitor-Run
	HC155054	Drier-Filter 16 cu in
	HC150401	Relay
	HC155419	Valve-Access
11A	HC151433	Grommet-Compressor Mtg.
11B	HC151434	Sleeve-Compressor Mtg.
12	HC155071	Receiver-3 lb. 3/8 ID Sweat w/o Valve (Air Cooled)
or	HC155064	Receiver-10-1/2 lb. 3/8 ID Sweat (Air Cooled Remote)
13	HC117471	Bracket-Assy. Fan (Top) (Air Cooled)
14	HC139235	Bracket-Fan Motor Support (Bottom) (Air Cooled)
15	HC151084	Motor-1/10 hp 208-230-1-50/60 (Air Cooled)
16	HC159021	Blade-Fan 14 in. 20° (Air Cooled)
17	HC118787	Shroud-Assy. Condenser (Air Cooled)
18	HC137373	Baffle-Air Condenser (Air Cooled)
19	HC155125	Condenser-Air (Air Cooled)
20	-----	Motor & Mount-Assy. (See Figure 6)
21	HC119290	Tube-Assy. Drain
22	HC155450	Cut Out-High Pressure 450 PSI
23	HC155703	Cut Out-Low Pressure 0 PSIG (Air Cooled)
	HC155705	Cut Out-Low Pressure 2IN HG (Air Cooled Remote)
24	HC162133	Caster-Low Profile w/Brake
24A	HC150736	Nut-Lock Conduit 1-1/4
25	HC162134	Caster-Low Profile w/o Brake
25A	HC150736	Nut-Lock Conduit 1-1/4
26	HC153124	Belt-Poly V
27	HC153644	Sheave-1" Bore 8.00 OD/PD
27A	HC153323	Key-Drive 1/4 SQ x 1-1/2

Not Shown:

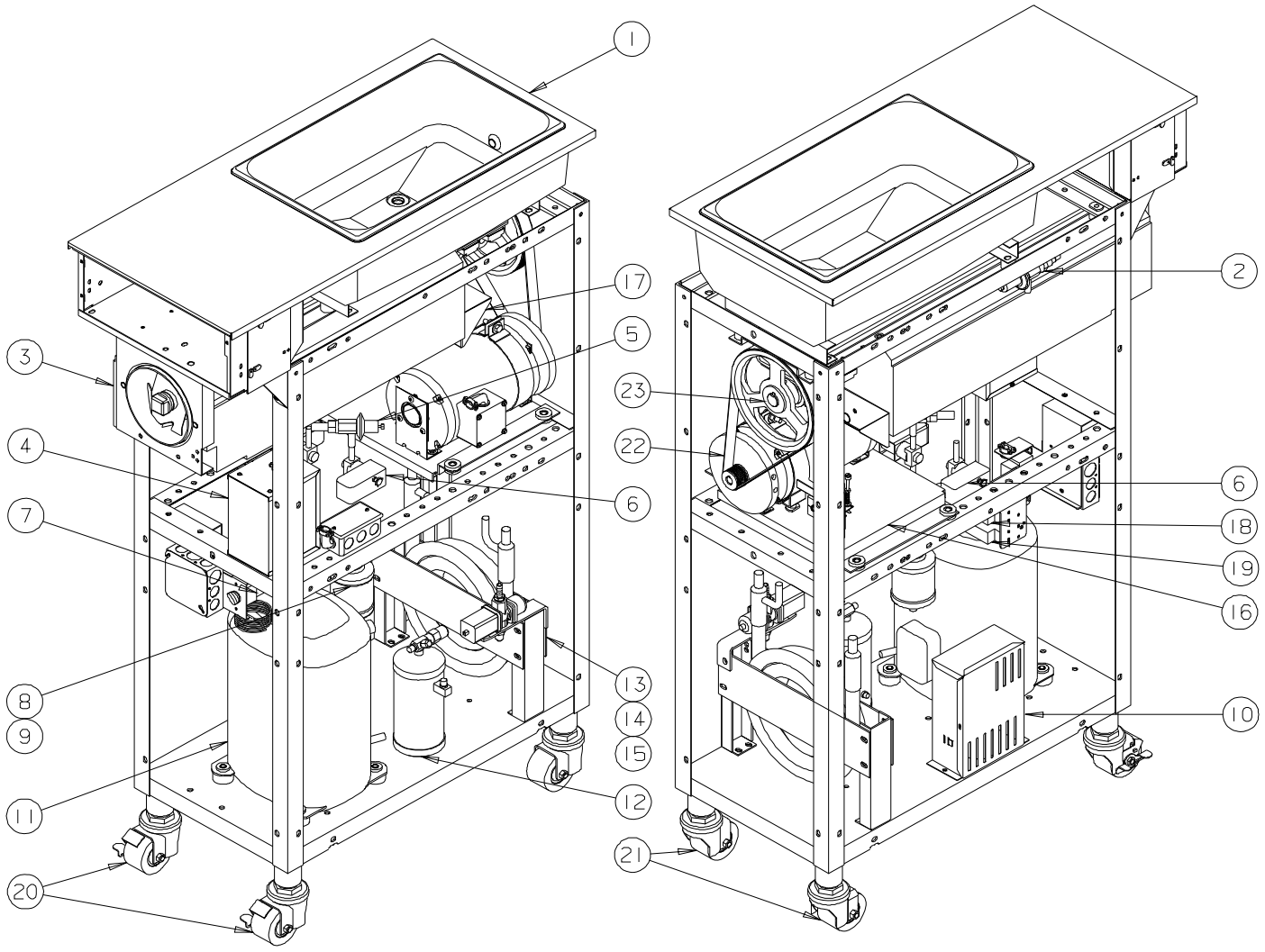
HC116410	Kit-Dispense Head Switch
HC112978	Leg-Assy. Six Inch
HC155419	Valve-Access
HC155497	Valve-Access 3/16" w/ 1/4 & 3/8 Step

ACR Condenser Assembly see Figure 11.

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Figure 10 Assembly Views

Water Cooled (Page 1 of 2)



M01208

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Figure 10 Front & Rear Assembly Views Water Cooled (Page 1 of 2)

Item	Part No.	Description
1	HC118783	Panel-Assy. Hopper & Top
2	HC155449	Valve-Automatic Expansion (Hopper)
2A	HC165531	Insulator-Expansion Valve
3	HC118779	Cylinder-Assy. Complete
4	----	Box-Assy. Capacitor & Relay (Motor)
	HC150293	Capacitor-Run
	HC150294	Capacitor-Start
5	HC155490	Valve-Automatic Expansion (Cylinder)
5A	HC165531	Insulator-Expansion Valve
6	HC155488	Valve-Solenoid 208/240v
6A	HC151477	Coil-Solenoid Field 208-240v MKC-1TS
7	HC161202	Thermostat-5° Fixed Differential
8	HC155054	Drier-Filter 16 cu in
9	HC155059	Glass-Sight
10	HC151362	Box-Assy. Capacitor & Relay
	HC150398	Capacitor-Start
	HC150399	Capacitor-Run
	HC150401	Relay
10A	HC117821	Cover-Assy. Capacitor & Relay Box
11	HC118234	Compressor-Assy. 208-230-1-60 AV includes compressor and:
	HC150398	Capacitor-Start
	HC150399	Capacitor-Run
	HC155054	Drier-Filter 16 cu in
	HC150401	Relay
	HC155419	Valve-Access
11A	HC151433	Grommet-Compressor Mtg.
11B	HC151434	Sleeve-Compressor Mtg.
12	HC155071	Receiver-3 lb. 3/8 ID Sweat w/o Valve
13	HC139813	Bracket-Water Condenser
14	HC155030	Condenser-Water
15	HC112080	Valve-Assy. Water includes
	HC155410	Valve-Water 3/8
15A	HC155444	Kit-Water Valve Repair
16	-----	Motor & Mount-Assy. (See Figure 6)
17	HC119290	Tube-Assy. Drain
18	HC155702	Cut Out-High Pressure 375 PSI
19	HC155703	Cut Out-Low Pressure 0 PSIG
20	HC162133	Caster-Low Profile w/Brake
20A	HC150736	Nut-Lock Conduit 1-1/4
21	HC162134	Caster-Low Profile w/o Brake
21	HC150736	Nut-Lock Conduit 1-1/4
22	HC153124	Belt-Poly V
23	HC153644	Sheave-1" Bore 8.00 OD/PD
23A	HC153323	Key-Drive 1/4 SQ x 1-1/2

Not Shown:

HC116410	Kit-Dispense Head Switch
HC112978	Leg-Assy. Six Inch
HC155419	Valve-Access
HC155497	Valve-Access 3/16" w/ 1/4 & 3/8 Step

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

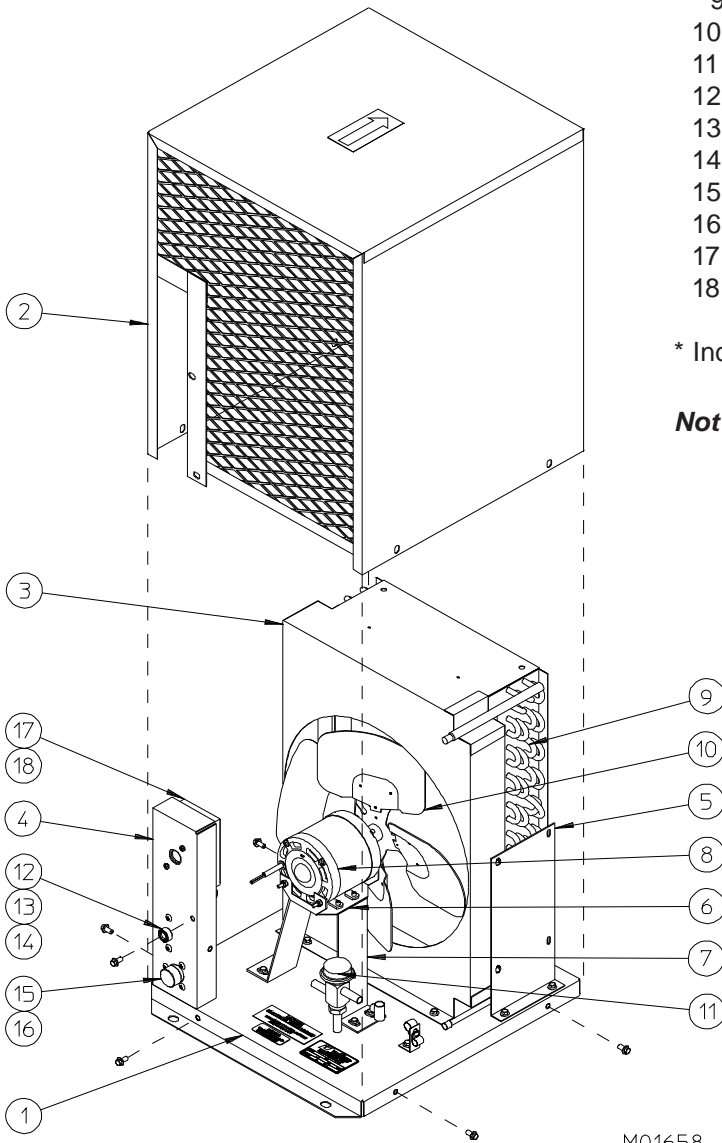
Figure 11 Air Cooled Remote Condenser Assembly (Page 1 of 2)

Item	Part No.	Description
*	HC119483	Condenser-Assy. 2 Hp 1 Fan Remote (Complete)
1	HC119484	Base-Assy. Condenser
2	HC119485	Cover-Assy. Condenser
3	HC118787	Shroud-Assy. Condenser
4	HC119192	Bracket-Assy. Electric Box
5	HC140257	Brace-Condenser
6	HC117471	Bracket-Assy. Fan
7	HC139235	Bracket-Fan Motor Support
8	HC151084	Motor-1/10 HP 208-230-1-50/60
9	HC155125-C	Condenser-Air
10	HC159021	Blade-Fan 14" 20°
11	HC155454	Valve-Head Pressure Control
12	HC153420	Coupling-Refr. 3/8 MQC 3/8 SW
13	HC191538	Plate-Coupling Mtg.
14	HC140040	Retainer-Coupling Mtg.
15	HC153418	Coupling-Refr. 1/2MQC 1/2 SW
16	HC153502	Flange-Refr. Coupling Mount 1/2
17	HC150732	Box-Electric 2-3/4 x 4-1/2 x 2
18	HC150737	Cover-Electric Box 2-3/4 x 4-1/2

* Includes all items above.

Not Shown:

- HC155064 Receiver-10-1/2 lb. 3/8 ID Sweat
- HC155705 Cut Out-Low Pressure 2 IN HG
- HC155450 Cut Out-High Pressure 450 PSI
- HC155466 Control-Fan Pressure
- HC155487 Check-Valve 5/8 OD Sweat
- HC119124 Kit-25 Foot Line Sets 404a
- HC119125 Kit-50 Foot Line Sets 404a



M01658

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Accessories

Part Number	Description
HC116110	Ad Kit-Slush Signs
HC199504	Bottle-Flavor Plastic
HC158010	Brush-6 in. w/o handle (see HC158012 for handle)
HC158012	Handle-Brush Fiberglass (see HC158010 for brush)
HC158022	Brush-1/4 in. dia. 2 LG 6-1/2 Overall
HC158077	Brush-1 in. dia. 12 in. Long
HC158026	Brush-9/16 in. w/36 in. Handle
HC165241	Decal-Six Flavor Slush
HC169212	Dispenser-Cup (EL20 6-12 oz.)
HC169213	Dispenser-Cup (EL30 16-24 oz.)
HC155634	Fitting-Tank 3/4 (15 Gallon Container)
HC117337	Kit-O-ring 810 812
HC169124	Pump-Slush Flavor Plastic
HC169302	Pump-Submersible
HC116992	Rack-Assy. 5 Jars Complete (Flavor)
HC158043	Rod-Stir-Stainless
HC113324	Spigot-Assy. w/Fitting & Gasket
HC162703	Spigot-3/4 Plastic Drum (Spigot Only for 15 Gallon Container)
HC113073	Tank-Assy. 15 Gallon Mix (w/lid and spigot)
HC163300	Tank-15 Gallon PVC w/Lid (only)
HC196058	Tubing 1/2" I.D. x 5/8 O.D. PVC
HC184864-01	DVD-Training 812
HC184857	Sheet-Clean & Sanitize

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

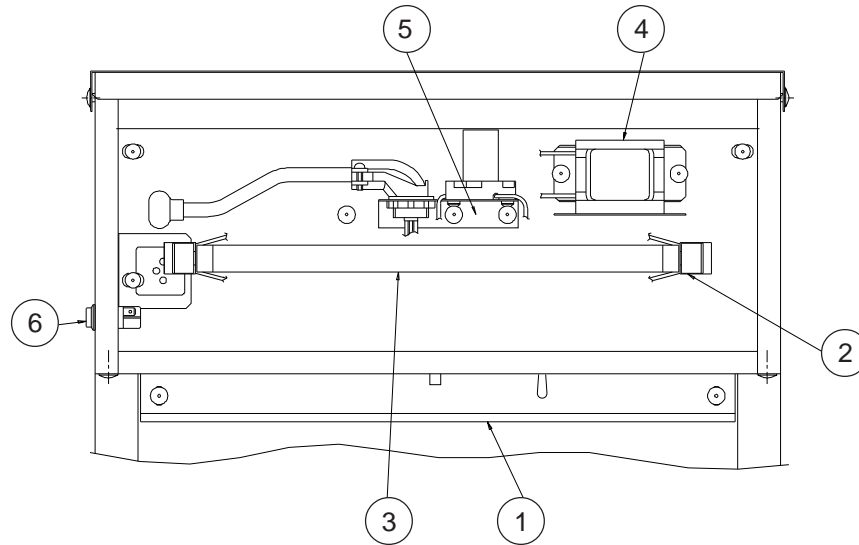


Figure 12 Accessory - Merchandiser (Optional)

Item	Part No.	Description
1*	HC117780	Sign-Assy. Illuminated w/Mtg.
2	HC150574	Socket-Bulb
3	HC150578	Bulb-Fluorescent
4	HC150577	Ballast-Fluorescent
5	HC150576	Starter-Fluorescent
6	HC150485	Switch-Rocker SPST

*Includes items 2 through 6.

Not Shown:

- HC165057 Sign-Illuminated Cocktail Insert
- HC165058 Sign-Illuminated Smoothie Insert
- HC165059 Sign-Illuminated Lemonade Insert
- HC165060 Sign-Illuminated Slush Insert

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

Cleaning & Sanitizing Models 185/195 and 810/812 Slush Freezers

This instruction sheet is not intended to be used in place of the Operator's Manual. Use the following information to assist you only after you have read, understood, and are accomplished in the procedures for cleaning and sanitizing detailed in the freezer Operator's Manual.

CLEANING

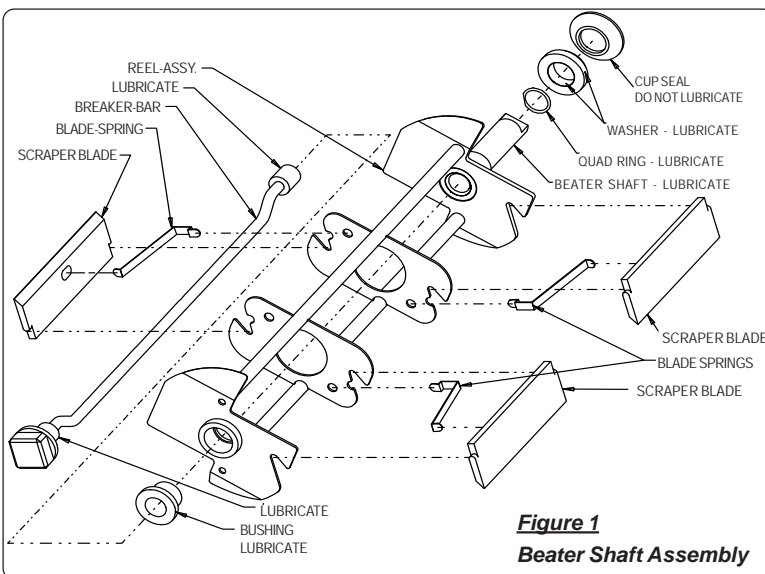


CAUTION
To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected.

1. Prepare a three-compartment sink for cleaning, rinsing, and sanitizing parts removed from the freezer per applicable health codes. The sanitizer should be mixed according to the manufacturer's instructions to yield 100 parts per million (PPM) available chlorine solution. (example: Stera-Sheen Green Label).
2. Wash all parts removed from the freezer thoroughly with a warm, mild dish detergent solution. The following parts should be cleaned with the appropriate brush supplied.
 - a. The door piston opening, breaker bar cavity, air bleed hole, dispense outlet valve opening, and the door mounting holes.
 - b. The shaft cup seal, washer, outlet valve, piston and piston rod.
 - c. The beater shaft inside spring mounting holes and the scraper blade mounting indentations.
3. After all parts are washed and rinsed, place in sanitizing solution. For proper sanitizing, the parts must remain in the sanitizing solution for 5 minutes. Allow parts to air dry.
4. Remove hopper cover and bottle rack, take to sink area to wash with the dish detergent solution. Rinse with clean water.
5. With the dish detergent solution thoroughly brush the inside of the hopper, the mix feed port to the cylinder, the drain tube, and the inside of the cylinder making certain to clean the back wall of the cylinder. Rinse with clean water.
6. Wipe down the freezer with the dish detergent solution and rinse with clean water.

ASSEMBLY

1. Assemble and lubricate in accordance with Operator's Manual. Use figures 1 - 3 as reference.



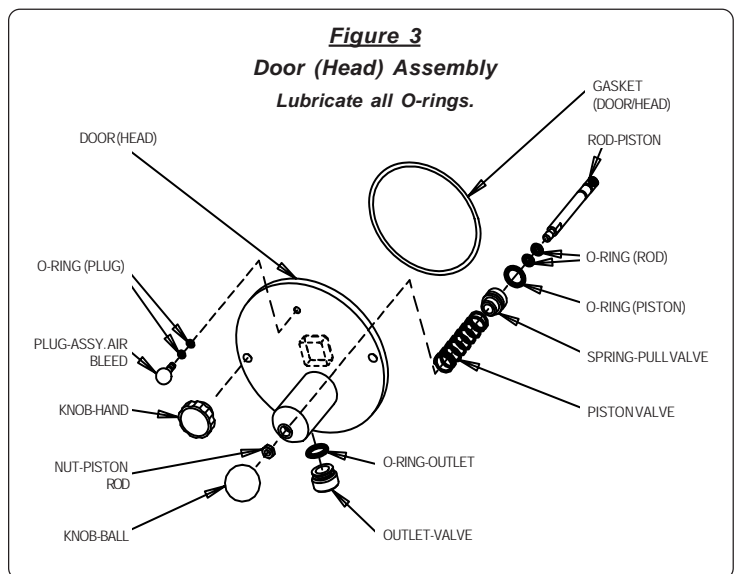
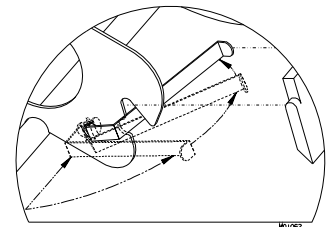
SANITIZING

The sanitizing procedure is always done just prior to starting the freezer.

1. Wash and sanitize your hands and forearms.
2. Prepare 4 gallons (15.2 liters) of sanitizing solution in a container. The sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM (parts per million) available chlorine solution (i.e., Stera-Sheen or equivalent).
3. Pour sanitizing solution into the hopper pan. Using a clean brush, wash down the hopper walls, the mix feed tube and the hopper cover.
4. Remove the air relief plug and allow sanitizer to flow into the cylinder. Replace the plug when sanitizer reaches the bottom of the air plug opening.
5. When the cylinder has filled with sanitizing solution, reconnect the main power supply to the freezer. Turn the selector switch to the "CLEAN" position and allow the beater to run for 5 minutes.
6. At this time check for leaks around the door, piston and drain tube.
7. Turn the selector switch to the "OFF" position. Place an empty container under the dispensing door, and drain the solution by opening the piston to allow the cylinder and hopper to empty.

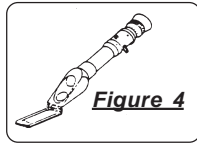
Go to Production Preparation and Priming the Freezer. (back side)

Figure 2
Install blades and springs



PRODUCT PREPARATION

1. Dissolve contents of base powder packets and 5 pounds of sugar in sufficient water to make 5 gallons. Mix thoroughly.
2. If using an autofill system check syrup to water ratio to supplier instructions.
3. Acceptable brix level is 11-13 using a refractometer. See Figure 4.



NOTE: It is recommended to precool mix before filling freezer.

PRIMING THE FREEZER

1. Make sure that your hands, forearms and all freezer assemblies are sanitized.

Important:

Failure to completely remove sanitizer or water from the freezing cylinder before placing in "FREEZE" will damage the freezer.

2. While holding the piston open, pour the mix directly into the hopper, allowing the mix to force out any remaining sanitizer (approximately 16 ounces). Close the piston.

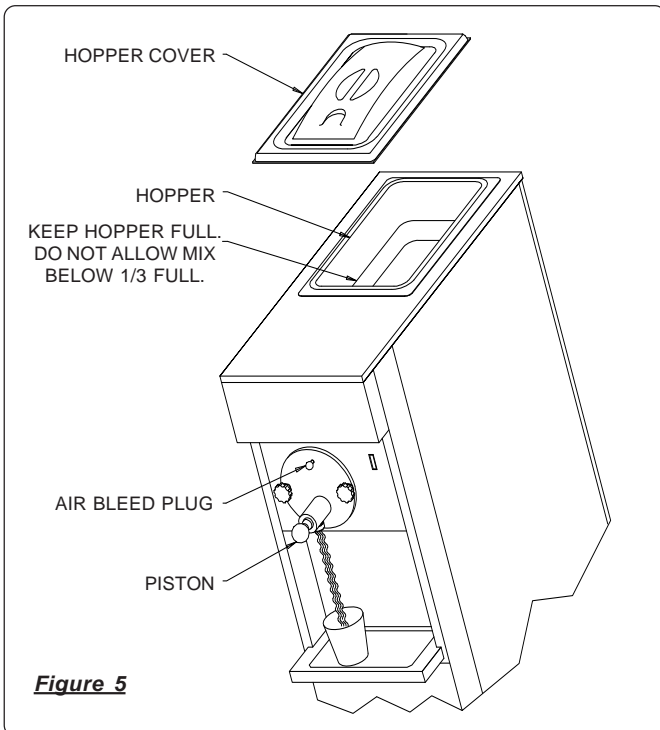


Figure 5

PRIMING THE FREEZER

(continued)

3. Remove the air bleed plug and allow the cylinder to fill with mix. Replace the air plug when the mix reaches the bottom of the air plug opening.
4. Finish filling the hopper with mix. The freezer will hold 8 gallons (30.3 liters) — 12 quarts (11.4 liters) in the freezer cylinder and 20 quarts (18.9 liters) in the hopper.

NOTE: If the proper mix level is not maintained, operational problems will occur. Do not allow the level of mix in the hopper to fall below 1/3 full. See Figures 5 and 6.

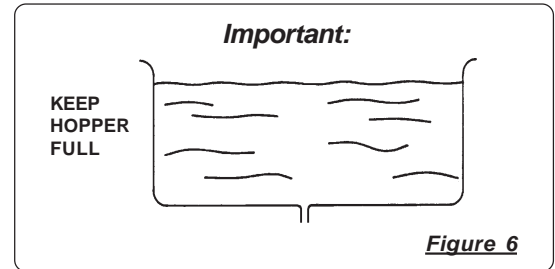
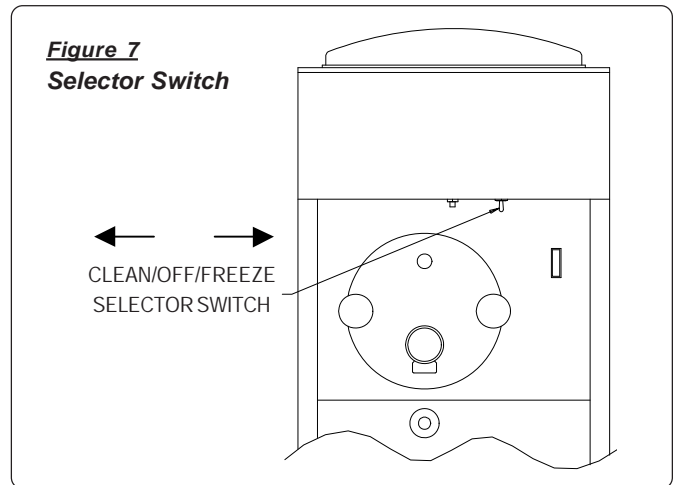


Figure 6

5. Turn the selector switch to the "FREEZE" position. See Figure 7.



6. Place the hopper cover over the hopper.
7. When the mix has been frozen to the proper consistency, the compressor will automatically shut off. It will restart whenever the product consistency changes. The beater will run continuously.

Problem? Contact your local authorized Electro Freeze distributor or the freezer manufacturer, H.C. Duke & Son/Electro Freeze Service Department, 2116 Eighth Avenue, East Moline, IL 61244, (309) 755-4553 or FAX (309) 755-9858.



ELECTRO FREEZE

Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Ad Kit-Slush Signs	HC116110	1	H2G-1956 –
Adhesive-Fitler Spray (Optional air filters)	HC162548	*	H2L –
Baffle-Air Condenser (Air Cooled)	HC137373	2	H2G-1956 –
Ballast-Fluorescent (Optional Illuminted Sign)	HC150577	1	H2G-1956 –
Band-Assy. Motor	HC116968	1	H2G-1956 –
Bar-Assy. Bearing Alignment	HC118776-01	1	H2G-1956 –
Bar-Assy. Bearing Alignment Loaner	HC118776	1	H2G-1956 –
Base-Assy. Condenser (ACR)	HC119484	1	A2L-322 –
Bearing-Assy. Retainer (Front)	HC117282	1	H2G-1956 –
Bearing-Assy. Retainer (Rear)	HC117283	1	H2G-1956 –
Bearing-1" Pillow Block	HC153030	2	H2G-1956 –
Bearing-Motor Mount	HC153010	1	H2G-1956 –
Beater-Slush	HC118786	1	H2G-1956 –
Belt-Poly V (Drive)	HC153124	1	H2G-1956 –
Blade-Fan 14 in 19/20° (Air Cooled)	HC159021	1	H2G-1956 –
Blade-Scraper	HC139771	3	H2G-1956 –
Bottles-Flavor Plastic	HC199504	*	
Box Assy.-Capacitor & Relay (Compressor 1 Phase)	HC151362	1	H2G-1956 –
Capacitor-Run	HC150399	1	H2G-1956 –
Capacitor-Start	HC150398	1	H2G-1956 –
Relay-Start/Run	HC150401	1	H2G-1956 –
Box Assy.-Capacitor & Relay (Beater Motor 1 Phase)			
Capacitor-Run	HC150293	1	H2G-1956 –
Capacitor-Start	HC150294	1	H2G-1956 –
Box-Electric 2-3/4 x 4-1/2 x 2 (ACR)	HC150732	1	A2L-322 –
Brace-Condenser (ACR)	HC140257	1	A2L-322 –
* As Required			
** Items Included In O-Ring Kit No. 117337			
*** LH or RH — Left or right hand is determined as you face the front of freezer.			
NLA = No Longer Available			
WC = Water Cooled		AC = Air Cooled	
		ACR = Air Cooled Remote	

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Bracket-Assy. Fan (AC)	HC117471	1	H2G-1956 –
Bracket-Assy. Fan (ACR)	HC117471	1	A2L-322 –
Bracket-Fan Motor Support (AC)	HC139235	1	H2G-1956 –
Bracket-Fan Motor Support (ACR)	HC139235	1	A2L-322 –
Bracket-Spring Torque Control	HC134661	1	H2G-1956 –
Bracket-Switch Mounting	HC134632	1	H2G-1956 –
Bracket-Water Condenser (Water Cooled)	HC139813	1	H2G-1956 –
Breaker-Assy. (Reel Assy.)	HC118784	1	H2G-1956 –
Breaker-Circuit 2.0 Amp (NLA use HC150472)	HC150473	1	H2G-1956 –
Breaker-Circuit 2.5 Amp	HC150472	1	–
Brush-6 in. dia.w/36 in. Handle	HC158005	1	H2G-1956 –
Brush-1 in dia. 12 inches long	HC158026	1	H2G-1956 –
Bulb-Fluorescent (Optional Illuminted Sign)	HC150578	1	H2G-1956 –
Bumper-Rubber (Drip Tray)	HC199030	4	H2G-1956 –
Bushing-Reel (Reel Assy.)	HC138947	1	H2G-1956 –
Cap-Access Valve	HC155574	1	H2G-1956 –
Cap-Coupling	HC133415	1	H2G-1956 –
Cap-Dust Refr. Coupling (ACR)	HC153503	1	H2G-1956 –
Capacitor-Run (Compressor)	HC150399	1	H2G-1956 –
Capacitor-Run (Motor)	HC150293	1	H2G-1956 –
Capacitor-Start (Compressor)	HC150398	1	H2G-1956 –
Capacitor-Start (Motor)	HC150294	1	H2G-1956 –
Caster-1-1/4 ST PT w/Brake	HC162105	2	H2G-1956 – I2H
Caster-1-1/4 NPS w/o Brake	HC162106	2	H2G-1956 – I2H
Caster-Low Profile w/Brake	HC162133	2	I2H –
Caster-Low Profile w/o Brake	HC162134	2	I2H –
Check-Valve 5/8 OD Sweat (ACR)	HC155487	1	H2G-1956 –

* As Required
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Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Catch-Bullet .268 OD x .343 ST (Front Panel)	HC159175	2	H2G-1956 –
Clip-Retainer	HC150120	4	H2G-1956 –
Coil-A/B 208-230V (Replacement coil for contactor p/n HC150155)	HC150156	3	H2G-1956 –
Coil-Solenoid 208/240v 50/60 Hz (Replacement coil only p/n 155421)	HC150352	1	See Valve-Solenoid
Coil-Solenoid Field 208/240v MKC-1TS (Replacement coil only p/n 155488)	HC150352	1	See Valve-Solenoid
Compressor-Assy. 208-230-1-60 AV	HC118234	1	H2G-1956 –
Capacitor-Start	HC150398	1	H2G-1956 –
Capacitor-Run	HC150399	1	H2G-1956 –
Drier-Filter 16 cu in	HC155054	1	H2G-1956 –
Relay-Start\Run	HC150401	1	H2G-1956 –
Valve-Access	HC155419	1	H2G-1956 –
Condenser-Air Cooled	HC155125-C	1	H2G-1956 –
Condenser-Assy. 2 Hp 1 Fan Remote (ACR)	HC119483	1	A2L-322 –
Condenser-Water Cooled	HC155030	1	H2G-1956 –
Connector-3/8 x 90° (Motor & Brg Assy.)	HC150705	1	H2G-1956 –
Contacto-IEC 23A 240v (NLA use HC150155)	HC150135	3	H2G-1956 – D2J
Contacto-IEC 23A 208-230V C (Electrical Box)	HC150155	3	E2J –
Container-15 Gallon (only)	HC163300	1	H2G-1956 –
Container-15 Gallon (w/lid and spigot)	HC113073	1	H2G-1956 –
Control-Fan Pressure (ACR)	HC155466	1	A2L-322 –
Coupling-Refr. 1/2MQC 1/2 SW	HC153418	1	H2G-1956 –
Coupling-Refr. 3/8 MQC 3/8 SW	HC153420	1	H2G-1956 –
Cover-Adjustment Hole (Access)	HC136959	1	H2G-1956 –
Cover-Assy. Capacitor Box (Compressor)	HC117821	1	H2G-1956 –
Cover-Assy. Condenser (ACR)	HC119485	1	A2L-322 –
Cover-Assy. Electrical Box	HC116357	1	H2G-1956 –
* As Required			
** Items Included In O-Ring Kit No. 117337			
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Use of unapproved parts will void warranty.**

Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Cover-Electric Box 2-3/4 x 4-1/2 (ACR).....	HC150737	1	A2L-322 –
Cover-Hopper	HC196121	1	H2G-1956 –
Cover-Switch Bottom	HC135004	1	H2G-1956 –
Cover-Switch Top	HC135003	1	H2G-1956 –
Cup Seal (Seal-Beater Shaft)	HC160557	1	H2G-1956 – L2N-4382
Cut Out-High Pressure	HC155425	1	H2G-1956 – L2N-4382
Cut Out-High Pressure 450 PSI (AC & ACR)..	HC155450	1	L2N-4383 –
Cut Out-High Pressure 375 PSI (WC)	HC155702	1	L2N-4383 –
Cut Out-Low Pressure (AC & WC).....	HC155403	1	H2G-1956 – L2N-4382
Cut Out-Low Pressure 0 PSIG (AC & WC)	HC155703	1	L2N-4383 –
Cut Out-Low Pressure (ACR).....	HC155465	1	A2L-322 –
Cut Out-Low Pressure 2 in. HG (ACR)	HC155705	1	L2N-4383 –
Cylinder-Assy. Complete	HC118779	1	H2G-1956 –
Decal-Beater Warning	HC165025	1	H2G-1956 –
Decal-Cleaning Instructions	HC165065	1	H2G-1956 –
Decal-Clear Overlay	HC165093	1	H2G-1956 –
Decal-Panel Removal.....	HC165126	3	H2G-1956 –
Decal-Pre-Cooled Product.....	HC167006	2	H2G-1956 –
Decal-Six Flavor Slush	HC165241	1	H2G-1956 –
Decal-Trimstrip EF 16 in.	HC165188	1	H2G-1956 –
Decal-Trimstrip Sonic 16 in.	HC165175	1	H2G-1956 –
Decal-Ventilation	HC169048	1	H2G-1956 – F2I
Decal-Ventilation 6 in. RR	HC169053	1	F2I –
Deck-Adder	HC150146	1	H2G-1956 –
Dispenser-Cup-EL20 6-12 oz.	HC169212	1	H2G-1956 –
Dispenser-Cup-EL30 16-24 oz.	HC169213	1	H2G-1956 –

* As Required

** Items Included In O-Ring Kit No. 117337

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Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Door(Head) -Assy. Complete	HC116955	1	H2G-1956 – E2P-1113
Door (Head) -Only	HC117172	1	H2G-1956 – E2P-1113
Knob-Ball	HC162629	1	H2G-1956 – E2P-1113
Nut-Piston Rod	HC139274	1	H2G-1956 – E2P-1113
Outlet-Valve	HC136249-01	1	H2G-1956 – E2P-1113
O-Ring (Door/Head)	HC160622	1	H2G-1956 – E2P-1113
O-Ring (Outlet-Valve)	HC160582	1	H2G-1956 – E2P-1113
O-Ring (Piston)	HC160582	1	H2G-1956 – E2P-1113
O-Ring (Plug)	HC160561	2	H2G-1956 – E2P-1113
O-Ring (Rod)	HC160610	2	H2G-1956 – E2P-1113
Piston-Valve	HC136253	1	H2G-1956 – E2P-1113
Plug-Air Bleed	HC115416	1	H2G-1956 – E2P-1113
Rod-Assy. Piston	HC113999	1	H2G-1956 – E2P-1113
Spring-Pull Valve	HC162319	1	H2G-1956 – E2P-1113
Door(Head) -Assy. Complete	HC117897	1	E2P-1114 –
Door (Head) -Only	HC119674	1	E2P-1114 –
Gasket (Door/Head)	HC160504	1	E2P-1114 –
Knob-Ball	HC162629	1	E2P-1114 –
Nut-Piston Rod	HC139274	1	E2P-1114 –
Outlet-Valve	HC136249-01	1	E2P-1114 –
O-Ring (Outlet-Valve)	HC160582	1	E2P-1114 –
O-Ring (Piston)	HC160582	1	E2P-1114 –
O-Ring (Plug)	HC160561	2	E2P-1114 –
O-Ring (Rod)	HC160610	2	E2P-1114 –
Piston-Valve	HC136253	1	E2P-1114 –
Plug-Air Bleed	HC115416	1	E2P-1114 –
Rod-Assy. Piston	HC113999	1	E2P-1114 –
Spring-Pull Valve	HC162319	1	E2P-1114 –
Drier-Filter 16 cu in	HC155054	1	H2G-1956 –
Filter-Air Cleanable (Optional)	HC155137	1	H2L –
Filter-Assy. (Electrical Box)	HC116125	1	H2G-1956 –
Fitting & Gaskets-3/4" 15 Gal. Container	HC155634	1	H2G-1956 –
* As Required			
** Items Included In O-Ring Kit No. 117337			
*** LH or RH — Left or right hand is determined as you face the front of freezer.			
NLA = No Longer Available			
WC = Water Cooled		AC = Air Cooled	
		ACR = Air Cooled Remote	

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Flange-Ref. Coupling Mount 1/2 (ACR)	HC153502	1	A2L-322 –
Flywheel-Driver Sheave	HC153635	1	H2G-1956 –
Gasket (Door Assembly)	HC160504**	1	E2P-1114 –
Glass-Sight	HC155059	1	H2G-1956 –
Grommet-Compressor Mounting	HC151433	4	H2G-1956 –
Hanger-Drain Tube	HC139773	1	H2G-1956 –
Head-Assy. Complete	See "Door-Assy."		
Indicator-Mix Level	HC150202	1	H2G-1956 –
Insert-Assy. Drip Tray	HC116980	1	H2G-1956 –
Bumper-Rubber	HC199030	4	H2G-1956 –
Insert-Drip Tray	HC138791	1	H2G-1956 –
Insulator-Expansion Valve	HC165531	2	H2G-1956 –
Key-Drive 1/4 SQ x 1-1/2	HC153323	1	H2G-1956 –
Key-Drive 3/16 SQ x 1-1/2	HC153322	1	H2G-1956 –
Kit-25 Foot Line Sets 404a (ACR)	HC119124	1	A2L-322 –
Kit-Dispense Head Switch	HC116410	1	H2G-1956 –
Kit-Motor & Bearing Assy. Replacement (Beater Motor)	HC117342	1	H2G-1956 –
Kit-O-Ring	HC117337	1	H2G-1956 –
Kit-Solenoid Valve Repair	HC155434	1	H2G-1956 –
Kit-Water Valve Repair	HC155444	1	H2G-1956 –
Knob-Ball 3/8-16 THD Black	HC162629	1	H2G-1956 –
Knob-Fluted Torque (Hand)	HC162634	2	H2G-1956 –
* As Required			
** Items Included In O-Ring Kit No. 117337			
*** LH or RH — Left or right hand is determined as you face the front of freezer.			
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WC = Water Cooled		AC = Air Cooled	
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**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Alphabetized Parts List

IMPORTANT: All parts shown are for standard models designed for 230V/1PH/60Hz.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Label-Set Six Flavor Slush	HC165241	..... *	H2G-1956 –
Label-Trimstrip	HC164081	..... 1	H2G-1956 –
Leg-Adjustable 6-inch	HC112978	..... 4	H2G-1956 –
Light-Indicator	HC150540	..... 1	H2G-1956 –
Module-Varitime 1M 1-100 (Optional Night Switch)	HC150275	..... 1	G2L-2519 –
Module-Varitime 1 MEG 10-1000S (Optional Night Switch)	HC150190	..... 1	G2L-2519 –
Motor & Brg Assy.-Assy. Field	HC117342	..... 1	H2G-1956 –
Motor-Fan 1/10 hp (AC & ACR)	HC151084	..... 1	H2G-1956 –
Nameplate-EF Large (Lower Front Panel)	HC165414	..... 1	H2G-1956 –
Nut-Cap-#10-32 Nylon (Motor & Brg Assy.)	HC160092	..... 1	H2G-1956 –
Nut-Hex #6-32 ZN (Motor & Brg Assy.)	HC160309	..... 2	H2G-1956 –
Nut-Hex #8-32 ZN (Motor & Brg Assy.)	HC160102	..... 4	H2G-1956 –
Nut-Hex #10 -32 ZN (Motor & Brg Assy.)	HC160344	..... 1	H2G-1956 –
Nut-Hex 3/8-16 ZN (Motor & Brg Assy.)	HC160453	..... 1	H2G-1956 –
Nut-Hex 5/16-18 ZN	HC160105	..... 2	H2G-1956 –
Nut-HXSF 1/4-20 ZN (Drain Tube Hanger)	HC159951	..... 1	H2G-1956 – H2I
Nut-HXSF 1/4-20 ZN (Motor & Brg. Assy.)	HC159951	..... 4	H2G-1956 –
Nut-HXSF 5/16-18 ZN (Drive Shaft Assy.)	HC159947	..... 6	H2G-1956 – H2I
Nut-HXSF 5/16-18 ZN (Drive Shaft Assy.)	HC159947	..... 4	H2I –
Nut-Lock 5/16 18 ZN (Motor & Brg Assy.)	HC159220	..... 6	H2G-1956 –
Nut-Lock Conduit 1-1/4 (Casters)	HC150736	..... 4	H2G-1956 –
Nut-Piston Rod (Head Assy.)	HC139274 1	H2G-1956 –
* As Required			
** Items Included In O-Ring Kit No. 117337			
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Alphabetized Parts List

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Nut-Push Round .265 (Front Panel Assy.)	HC160289	2	H2G-1956 –
Nut-Speed 1/4-20 (Rear Panel)	HC160117	*	H2G-1956 –
Nut-Speed 1/4-20 BP&O (Side Panel)	HC160114	*	H2G-1956 –
Nut-Speed #10-24 (On Frame)	HC159067	*	H2G-1956 –
Nut-Speed #10-24 SST (Front & Dispense Panels)	HC159HC132	*	H2G-1956 –
Nut-Speed 1/8 SPR STL	HC160291	2	H2G-1956 –
O-ring (Door/Head)	HC160622**	1	H2G-1956 – E2P-1113
O-ring (Door/Head)	See Gasket		
O-ring-Kit	HC117337	*	H2G-1956 –
O-ring (Outlet-Valve)	HC160582**	1	H2G-1956 –
O-ring (Plug)	HC160561**	1	H2G-1956 –
O-ring (Piston)	HC160582**	1	H2G-1956 –
O-ring (Piston Rod)	HC160610**	2	H2G-1956 –
Outlet-Valve	HC136249-01	1	H2G-1956 –
Panel-Assy. Hopper & Top	HC118783	1	H2G-1956 –
Panel-Assy. Rear (Air Cooled)	HC118788	1	H2G-1956 –
Panel-Dispense	HC137224-01	1	H2G-1956 –
Panel-Assy. Front	HC116994	1	H2G-1956 –
Panel-Assy. Lower Front (Optional with air filter)	HC120081	1	H2L – D2O
Panel-Assy. Lower Front (Optional with air filter)	HC140489	1	D2O –
Panel-Front Louvered	HC132453	1	H2G-1956 – K2I
Panel-Lower Front 16 in.	HC136944	1	K2I –
Panel-Lower Rear (ACR)	HC140259	1	A2L-322 –
Panel-Rear (Water Cooled)	HC139856	1	H2G-1956 –
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Panel-Service	HC132683	1	H2G-1956 –
Panel-Side LH	HC138810	1	H2G-1956 –
Panel-Side RH	HC132277	1	H2G-1956 –
Panel-Upper Rear 16 in (ACR)	HC140258	1	A2L-322 –
Pin-Cotter 2-1/4 x 1/8	HC159248	1	H2G-1956 –
Piston-Valve (Head Assy.)	HC136253	1	H2G-1956 –
Plate-Assy.Cylinder & Bearing	HC118777	1	H2G-1956 –
Plate-Assy. Motor Adjust.	HC118903	1	H2G-1956 –
Plate-Bearing Mounting	HC139772	1	H2G-1956 –
Plate-Coupling Mtg. (ACR)	HC191538	1	A2L-322 –
Plug-Assy. Air Bleed	HC115416	1	H2G-1956 –
Pulley-Driven	See "Sheave"		
Pulley-Driver	See "Flywheel"		
Pump-Slush Flavor Plastic (Bottles)	HC169124	*	
Pump-Submersible	HC169302	1	H2G-1956 –
Quad-Ring	HC160597	1	H2G-1956 –
Rack-Assy. 5 Jar Flavor	HC116992	1	H2G-1956 –
Receiver-3 lb. 3/8 ID Sweat w/Valve (AC & WC)	HC155057	1	H2G-1956 – G2L
Receiver-3 lb. 3/8 ID Sweat w/o Valve(AC & WC)	HC155071	1	G2L –
Receiver-10-1/2 lb. 3/8 ID Sweat (ACR)	HC155064	1	A2L-322 –
Reel-Assy. 6 in. Dia 26 in. Long	HC118786	1	H2G-1956 –
Relay-Start/Run (Compressor)	HC150401	1	H2G-1956 –
Retainer Assy.-Bearing (Front)	HC117282	2	H2G-1956 –
Retainer Assy.-Bearing (Rear)	HC117283	2	H2G-1956 –
Retainer-Coupling Mtg.	HC140040	1	H2G-1956 –
Rod-Assy. Piston	113999	1	H2G-1956 –
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Rod-Stir Stainless	HC158043	1	H2G-1956 –
Screw-Adjusting RD HD (Motor & Brg Assy.) ...	HC196015	1	H2G-1956 – A2H
Screw-FSHC 3/8-16 x 1 BKOX	HC159953	4	H2G-1956 –
Screw-HXHC 1/4-20 x 3/4 (Motor & Brg Assy.) .	HC160021	2	H2G-1956 –
Screw-HXHC 3/8-16 x 1 ZN	HC160013	1	H2G-1956 –
Screw-HXHC 5/16-18 x 1-1/4ZN (Motor & Brg Assy.)	HC160010	1	H2G-1956 –
Screw-HXHC 5/16-18 x 1-3/8ZN (Drive Shaft Assy.)	HC160347	1	H2G-1956 –
Screw-HXSF 1/4-20 x 1/2 ZN (Motor & Brg Assy.)	HC159950	2	H2G-1956 –
Screw-HXSF 5/16-18 x 1 ZN (Plate Assy.)	HC159944	4	H2G-1956 –
Screw-SK Set 1/4-20 x 1/4 (Motor & Brg Assy.)	HC160495	2	H2G-1956 –
Screw-TRHM #6-32 x 1-1/4 SST (Motor & Brg Assy.)	HC160156	2	H2G-1956 –
Screw-TRPM #10-24 x 1/2 SST (Front Panel & Access Cover)	HC160076	*	H2G-1956 –
Screw-TRPM 1/4-20 x 1/2 (Rear Panel)	HC160048	*	H2G-1956 –
Screw-TRPM 1/4-20 x 1 SST (Side Panel)	HC159219	*	H2G-1956 –
Screw-TRPM 8-32 x 1/2 SST (Motor & Brg Assy.)	HC160049	1	H2G-1956 –
Seal Assy.-Complete	HC117215**	1	H2G-1956 –
Seal-Beater Shaft	HC160557	1	H2G-1956 –
Washer-Shaft Seal	HC139006	1	H2G-1956 –
Seal-Beater Shaft (Reel Assy.)	HC160557	1	H2I –
Shaft-Beater	HC118786	1	H2G-1956 –
Shaft-Drive	HC139774	1	H2G-1956 –
Sheave-1 Bore 8.00 OD/PD (Driven)	HC153644	1	H2G-1956 –
Shim-Bearing	HC135380	1	H2G-1956 –

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Shim-Bearing 24GA	HC135381	1	H2G-1956 –
Shroud-Assy. Condenser (Air Cooled)	HC118787	1	H2G-1956 –
Sign-Illuminated Slush (Optional)	HC117780	1	H2G-1956 –
Sign-Illuminated Cocktail Insert (Optional)	HC165057	1	H2G-1956 –
Sign-Illuminated Lemonade Insert (Optional)	HC165059	1	H2G-1956 –
Sign-Illuminated Slush Insert (Optional)	HC165060	1	H2G-1956 –
Sign-Illuminated Smoothie Insert (Optional)	HC165058	1	H2G-1956 –
Sleeve-Compressor Mounting	HC151434	4	H2G-1956 –
Socket-Bulb (Optional Illuminated Sign)	HC150574	1	H2G-1956 –
Socket-Octal	HC150119	2	H2G-1956 –
Spacer-Panel (Side)	HC138456	1	H2G-1956 –
Spigot (only) 15 Gallon Container	HC162703	1	H2G-1956 –
Spigot-Assy. (w/Fitting & Gasket)	HC113324	1	H2G-1956 –
Spring-Adjusting Screw	HC162346	1	H2G-1956 –
Spring-Extension Torque	HC162338	2	H2G-1956 –
Spring-Pull Valve (Piston)	HC162319	1	H2G-1956 –
Spring-Blade (Reel Assy)	HC134649	3	H2G-1956 –
Starter-Fluorescent (Optional Illuminted Sign)	HC150576	1	H2G-1956 –
Strip-Terminal	HC150795	1	H2G-1956 –
Stud-Adjusting	HC139544	1	A2H –
Stud-Assy. Cylinder	HC114341	2	H2G-1956 –
Switch-Dispense Headt Kit	HC116410	1	H2G-1956 –
Switch-Rocker SPST(Optional Illuminted Sign)	HC150485	1	H2G-1956 –
Switch-Toggle DPDT (Optional Night Switch)	HC150461	1	G2L-2519 –
Switch-Toggle DPDT CTR OFF	HC150463	1	H2G-1956 –
Switch-Torque	HC136388	1	H2G-1956 –

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Tank-15 Gallon PVC w/Lid (only)	HC163300	1	H2G-1956 –
Tank-Assy. 15 Gallon Mix (w/lid and spigot)	HC113073	1	H2G-1956 –
Thermostat-5° Fixed Diff. (Hopper)	HC161202	1	H2G-1956 –
Timer-D.O.M/D.O.B. Adjustable	HC150262	1	H2G-1956 –
Timer-Recycle 230VAC(Optional Night Switch)	HC150268	1	G2L-2519 –
Transformer (Optional)	HC150329	1	H2G-1956 –
Tray-Drip	HC196119	1	H2G-1956 –
Trimstrip-Assy. EF Decal 16 in	HC115321	1	H2G-1956 –
Trimstrip-Assy. Sonic Decal 16 in	HC117899	1	H2G-1956 –
Tube-Assy. Drain	HC118792	1	H2G-1956 – H2I
Tube-Assy. Drain	HC119290	1	H2I –
Tubing-1/2" ID x 5/8 OD PVC	HC196058	1	H2G-1956 –
Valve-Access (Compressors)	HC155419	1	H2G-1956 –
Valve-Access 3/16" with 1/4 & 3/8 Step	HC155497	1	H2G-1956 –
Valve-Automatic Expansion (Cylinder)	HC155451	1	H2G-1956 – B2L-540
Valve-Automatic Expansion (Cylinder)	HC155490	1	B2L-541 –
Valve-Automatic Expansion (Hopper)	HC155449	1	H2G-1956 –
Valve-Head Pressure Control (ACR)	HC155454	1	A2L-322 –
Valve-Solenoid 208-230v	HC155421	1	H2G-1956 – L2O-3377
Valve-Solenoid 208-240v	HC155488	1	L2O-3378 – L2O-3429
Valve-Solenoid 208-230v	HC155421	1	A2P-112 – A2P-124
Valve-Solenoid 208-240v	HC155488	1	C2P-659 –
Valve-Solenoid Repair Kit	HC155434	1	H2G-1956 – C2P-658
Valve-Assy. Water	HC112080	1	H2G-1956 –
Valve-Water	HC155410	1	H2G-1956 –

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Valve-Water Repair Kit.....	HC155444	1	H2G-1956 –
Video-Training 812 (Operators).....	HC-184864	1	H2G-1956 –
Washer-Flat #6 Brass (Motor & Brg Assy.)	HC160393	4	H2G-1956 –
Washer-Flat #10 ZN (Adjusting Screw)	HC160138	1	H2G-1956 –
Washer-Flat 1/4 ZN (Motor & Brg Assy.)	HC160130	2	H2G-1956 –
Washer-Flat 5/16 ZN (Motor & Brg Assy.) (Bearing Assy.)	HC160131	4	H2G-1956 –
Washer-Lock #8 ZN (Motor & Brg Assy.)	HC160470	4	H2G-1956 –
Washer-Lock 3/8 ZN (Motor & Brg Assy.)	HC160143	2	H2G-1956 –
Washer-Lock 5/16 ZN (Bearing Assy.)	HC160142	2	H2G-1956 –
Washer-Shaft Seal	HC139006	1	H2G-1956 –

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