



**Model U218**  
**OPERATORS MANUAL**

Manual No. 513631

Rev.1



This manual provides basic information about the machine. Instructions and suggestions are given covering its operation and care.

The illustrations and specifications are not binding in detail. We reserve the right to make changes to the machine without notice, and without incurring any obligation to modify or provide new parts for machines built prior to date of change.

**DO NOT ATTEMPT** to operate the machine until instructions and safety precautions in this manual are read completely and are thoroughly understood. If problems develop or questions arise in connection with installation, operation, or servicing of the machine, contact Stoelting.



[stoeltingfoodservice.com](http://stoeltingfoodservice.com)

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## ***A Few Words About Safety***

### **Safety Information**

**Read and understand the entire manual before operating or maintaining Stoelting equipment.**

This manual provides the operator with information for the safe operation and maintenance of Stoelting equipment. As with any machine, there are hazards associated with their operation. For this reason safety is emphasized throughout the manual. To highlight specific safety information, the following safety definitions are provided to assist the reader.

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

If you need to replace a part, use genuine Stoelting parts with the correct part number or an equivalent part. We strongly recommend that you do not use replacement parts of inferior quality.



### **Safety Alert Symbol:**

**This symbol** Indicates danger, warning or caution. Attention is required in order to avoid serious personal injury. The message that follows the symbol contains important information about safety.

### **Signal Word:**

Signal words are distinctive words used throughout this manual that alert the reader to the existence and relative degree of a hazard.



The signal word “WARNING” indicates a potentially hazardous situation, which, if not avoided, may result in death or serious injury and equipment/property damage.



The signal word “CAUTION” indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and equipment/property damage.

### **CAUTION**

The signal word “CAUTION” not preceded by the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in equipment/property damage.

### **NOTE (or NOTICE)**

The signal word “NOTICE” indicates information or procedures that relate directly or indirectly to the safety of personnel or equipment/property.

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# SECTION 1 DESCRIPTION AND SPECIFICATIONS

## 1.1 DESCRIPTION

The Stoelting U218 freezer is available as gravity fed or with an optional autofill kit. It is equipped with fully automatic controls to provide a uniform product. The U218 freezer will operate with almost any type of frozen beverage mix. This manual is designed to help qualified service personnel and operators with the installation, operation and maintenance of the Stoelting U218 freezer.



Figure 1-1 Model U218

## 1.2 SPECIFICATIONS

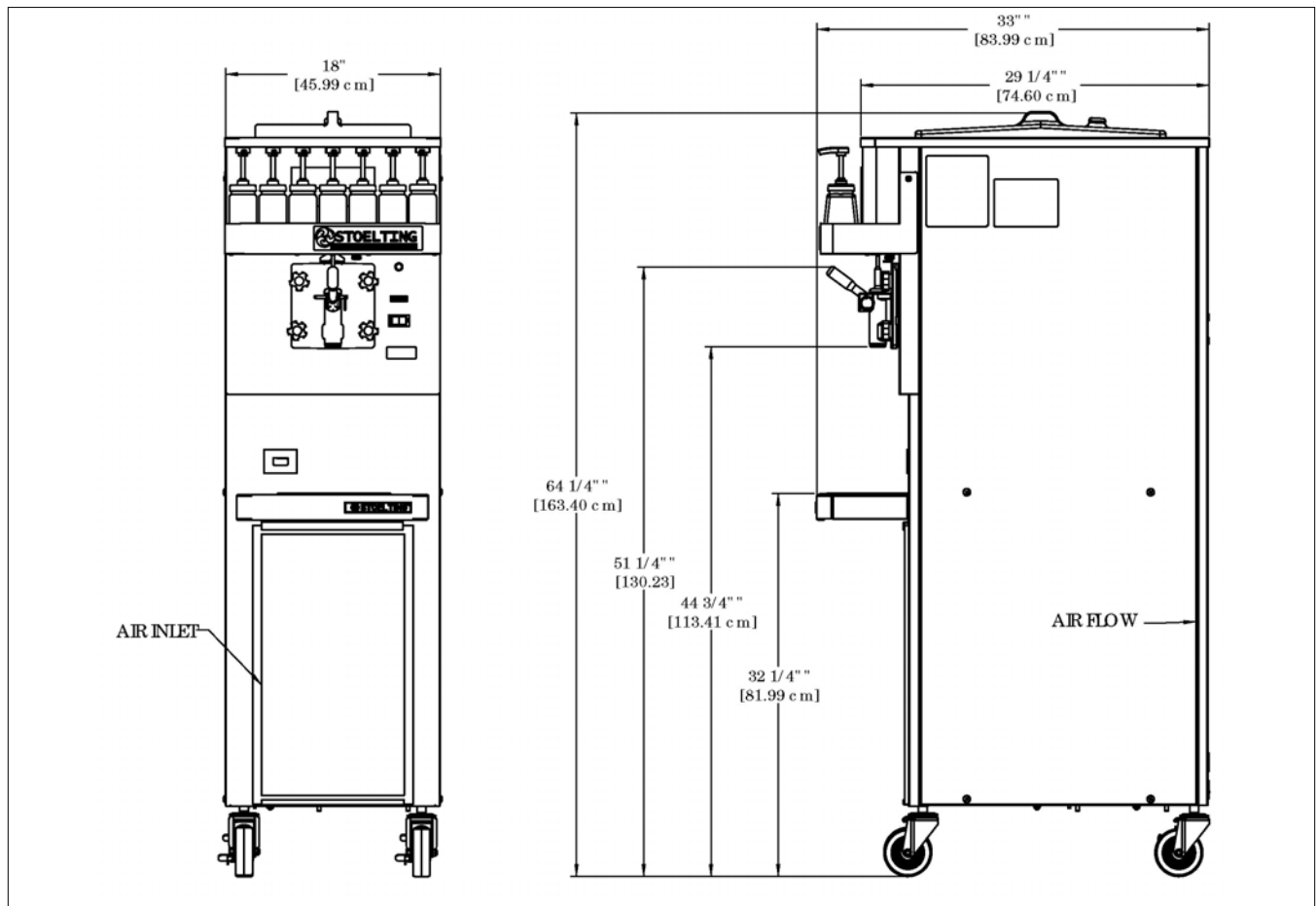


Figure 1-2 Model U218 Dimensions

**1.2 SPECIFICATIONS - CONTINUED**

<b>Model U218</b>		
<b>Dimensions</b>	<b>Freezer</b>	<b>with crate</b>
width	18-1/4" (46,3 cm)	25" (63,5 cm)
height	64-1/2" (163,8 cm)	66" (167,5 cm)
depth	33" (83,7 cm)	51" (129,5 cm)
<b>Weight</b>	1 lbs (0,5 kg)	1 lbs (0,5 kg)
<b>Electrical</b>	<b>1 Phase, 208-230 VAC, 60Hz</b>	
running amps	approximately 12A	
connection type	NEMA6-20P power cord provided	
<b>Compressor</b>	11,000 Btu/hr	
<b>Drive Motor</b>	1/2 hp	
<b>Air Flow</b>	Air cooled units require 3" (7,6 cm) air space at front and back.	
<b>Hopper Volume</b>	7 gallon (26,50 liters)	
<b>Freezing Cylinder Volume</b>	2 gallon (8 quart), 7,57 liters	
<b>Production Capacity</b>	30 GPH (113,59 liters) per Freezing Cylinder	



## SECTION 2 INSTALLATION INSTRUCTIONS

### 2.1 SAFETY PRECAUTIONS

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

Take notice of all warning labels on the freezer. 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. Labels should be checked periodically to be sure they can be recognized as warning labels.

If danger, warning or caution labels are needed, indicate the part number, type of label, location of label, and quantity required along with your address and mail to:

**STOELTING, LLC**  
**ATTENTION: Customer Service**  
**502 Hwy. 67**  
**Kiel, Wisconsin 53042**

### 2.2 SHIPMENT AND TRANSIT

The freezer has been assembled, operated and inspected at the factory. Upon arrival at the final destination, the entire freezer must be checked for any damage which may have occurred during transit.

With the method of packaging used, the freezer should arrive in excellent condition. THE CARRIER IS RESPONSIBLE FOR ALL DAMAGE IN TRANSIT, WHETHER VISIBLE OR CONCEALED. Do not pay the freight bill until the freezer has been checked for damage. Have the carrier note any visible damage on the freight bill. If concealed damage and/or shortage is found later, advise the carrier within 10 days and request inspection. The customer must place claim for damages and/or shortages in shipment with the carrier. Stoelting, LLC cannot make any claims against the carrier.

### 2.3 FREEZER INSTALLATION

Installation of the freezer involves moving the freezer close to its permanent location, removing all crating, setting in place, assembling parts, and cleaning.

- A. Uncrate the freezer.
- B. Accurate leveling is necessary for correct drainage of freezer barrel and to insure correct overrun. Place a bubble level on top of the freezer at each corner to check for level condition. If adjustment is necessary, level the freezer by turning the nut of each caster in or out.
- C. Correct ventilation is required. Install the rear air baffle to provide the 3" clearance at the front and back (Refer to Figure 2-1). Remove the rear panel screws and use them to attach the baffle. The freezer can be placed side-by-side next to other equipment.

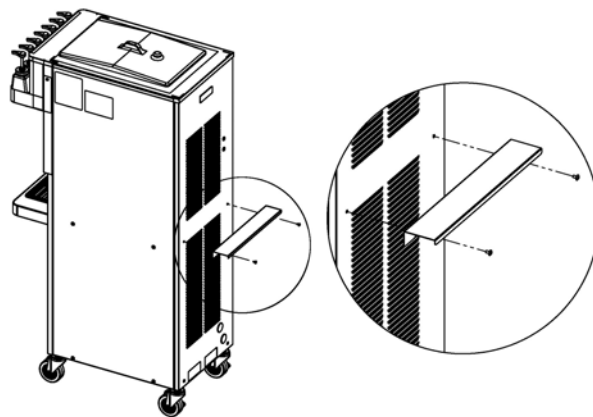


Figure 2-1 Rear Air Baffle

- D. Place the CLEAN-ON-OFF switch in the OFF position.

### WARNING

Do not alter or deform electrical plug in any way. Altering the plug to fit into an outlet of different configuration may cause fire, risk of electrical shock, product damage and will void warranty.

- E. Connect the power cord to the proper power supply. The plug on the U218 is designed for 230 volt / 20 amp duty. Check the nameplate on your freezer for proper supply. The unit must be connected to a properly grounded receptacle. The electrical cord furnished as part of the freezer has a three prong grounding type plug. The use of an extension cord is not recommended, if necessary use one with a size 12 gauge or heavier with ground wire. Do not use an adapter to circumvent the grounding requirement.



## SECTION 3 INITIAL SET-UP AND OPERATION

### 3.1 OPERATOR'S SAFETY PRECAUTIONS

SAFE OPERATION IS NO ACCIDENT; observe these rules:

- A. Know the freezer. Read and understand the Operating Instructions.
- B. Notice all warning labels on the freezer.
- C. Wear proper clothing. Avoid loose fitting garments, and remove watches, rings or jewelry that could cause a serious accident.
- D. Maintain a clean work area. Avoid accidents by cleaning up the area and keeping it clean.
- E. Stay alert at all times. Know which switch, push button or control you are about to use and what effect it is going to have.
- F. Disconnect electrical cord for maintenance. Never attempt to repair or perform maintenance on the freezer until the main electrical power has been disconnected.
- G. Do not operate under unsafe operating conditions. Never operate the freezer if unusual or excessive noise or vibration occurs.

### 3.2 OPERATING CONTROLS AND INDICATORS

Before operating the freezer, it is required that the operator know the function of each operating control. Refer to Figure 3-1 for the location of the operating controls on the freezer.

#### **WARNING**

High voltage will shock, burn or cause death. The OFF-ON switch must be placed in the OFF position prior to disassembling for cleaning or servicing. Do not operate machine with cabinet panels removed.

#### A. Spigot Switch

The spigot switch will automatically start the auger drive and refrigeration systems when the spigot is opened to dispense product. When the spigot is closed, the drive motor and compressor will remain on until the product in the freezing cylinder reaches the proper consistency..

#### B. CLEAN-OFF-ON Switch

The CLEAN-OFF-ON switch is used to supply power to the control circuit. When the switch is in the OFF (middle) position, power will not be supplied to the control board or refrigeration



Figure 3-1 Freezer Controls

system. When the switch is in the ON position, the freezer will operate in the freezing mode. When the switch is in the CLEAN position, all refrigeration will stop and the auger will start rotating.

**C. ADD MIX Light**

The ADD MIX light will flash to alert the operator to a low mix condition. It does so by monitoring the mix level in the hopper. When the ADD MIX light is flashing, refill hopper immediately.

**NOTE**

*Failure to refill hopper immediately may result in operational problems.*

**D. Diagnostic Light**

The Diagnostic Light will light and stay lit during a defrost cycle (Shake mode only). The defrost cycle starts after 3 hours without a spigot pull. The auger rotates for 90 seconds every 7 minutes. After 5 hours the normal freezing mode will start.

The Diagnostic Light will flash if an error occurs. The light will flash once if there is a compressor error. There will be two quick flashes if there is an auger error. And there will be three quick flashes if the freezer is left in clean mode for more than 20 minutes. Refer to the troubleshooting section for details.

**E. Consistency Adjustment Knob (A&W Freezers have an adjustment screw)**

The Consistency Adjustment Knob increases or decreases product consistency. A tension spring is connected to the knob and changes the amount of torque needed to complete a refrigeration cycle. Turn the knob clockwise to increase consistency or counterclockwise to decrease consistency.

**F. Front Door Safety Switch**

The front door safety switch prevents the auger from turning when the front door is removed. The switch is open when the door is not in place and closed when the door is properly installed.

**G. Autofill Kit - Optional (Part 2187317)**

The autofill kit is used with a pump to keep the hopper filled. The autofill kit is for use with non-potentially hazardous food substances; non-dairy. Refer to Section 5-4 for Autofill options.

**3.3 SANITIZING**

Sanitizing must be done after the freezer is cleaned and just before the hopper is filled with mix. Sanitizing the night before is not effective. However, you should always clean the freezer and parts after each use.

*The United States Department of Agriculture and the Food and Drug Administration require that all cleaning and sanitizing solutions used with food processing equipment be certified for this use.*

When sanitizing the freezer, refer to local sanitary regulations for applicable codes and recommended sanitizing products and procedures. The frequency of sanitizing must comply with local health regulations.

Mix sanitizer according to manufacturer's instructions to provide a 100 parts per million strength solution. Mix sanitizer in quantities of no less than 2 gallons (7.5 liters) of 90° to 110°F (32° to 43°C) water. Allow sanitizer to contact the surfaces to be sanitized for 5 minutes. Any sanitizer must be used only in accordance with the manufacturer's instructions.

In general, sanitizing may be conducted as follows:

<b>CAUTION</b>
Do not allow sanitizer to remain in contact with stainless steel freezer parts for prolonged periods. Prolonged contact of sanitizer with freezer may cause corrosion of stainless steel parts.

- A. Prepare Stera-Sheen Green Label Sanitizer or equivalent according to manufacturer's instructions to provide a 100 ppm strength solution. Mix the sanitizer in quantities of no less than 2 gallons of 90° to 110°F (32° to 43°C) water. Check the strength of the sanitizing solution. Use a chlorine test strip and color chart to make sure the solution has 100 ppm. Any sanitizer must be used only in accordance with the manufacturer's instructions.
- B. Pour the sanitizing solution into the hopper and place the switch in the CLEAN position. Check for leaks. Place the switch in the CLEAN position. Check for leaks.
- C. Clean the sides of the hopper and the underside of the hopper cover using a soft bristle brush dipped in the sanitizing solution (Refer to Figure 3-2).



**Figure 3-2 Brush Hopper**

- D. After five minutes, place a bucket under the spigot and open spigot to drain most sanitizing solution. Leave a small amount of the sanitizing solution in the freezing cylinder. Place the switch in the OFF (middle) position.
- E. Collect the remaining sanitizing solution in a cup and test the chlorine contents with a new test strip. If the reading is less than 100 ppm, sanitize the freezer again.  
If the reading is less than 100 ppm after sanitizing the second time, disassemble and wash the freezer again.

### 3.4 FREEZE DOWN AND OPERATION

- A. Sanitize just prior to use.
- B. Place the switch in the OFF (middle) position.
- C. Fill the hopper with mix.
- D. Open spigot and drain a small amount of mix to remove any remaining sanitizer.
- E. Place the switch in the ON position.

#### NOTE

*After the drive motor starts, there is a 3 second delay before the compressor starts.*

- F. After 8 to 12 minutes the product will be at consistency and will be ready to serve. Freeze down time may vary depending on mix type and ambient temperatures.
- G. To dispense, pull the spigot handle down to open the spigot.

The freezer is designed to dispense the product at a reasonable draw rate. If the freezer is overdrawn, the result is a soft product or a product that will not dispense at all. If this should occur, allow the freezer to run for approximately 30 seconds before dispensing additional product.

Do not operate the freezer when the ADD MIX light is on. Refill the hopper immediately.

### 3.5 REMOVING MIX FROM FREEZER

To remove the mix from the freezer, refer to the following steps:

- A. Place the switch in the CLEAN position to rotate the auger. Allow the mix to agitate in freezing cylinder until the mix has become liquid, about 5 minutes.
- B. Drain the mix by opening the spigot. A container should be placed under the spigot to collect the liquid mix.
- C. Place the switch in the OFF (middle) position.

### 3.6 CLEANING THE FREEZER

#### NOTE

*The frequency of cleaning the freezer and freezer parts must comply with local health regulations.*

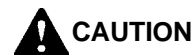
After the mix has been removed from the freezer, the freezer must be cleaned. To clean the freezer, refer to the following steps:

- A. Make sure the spigot is closed and fill the hopper with 2 gallons (8 liters) of tap water.
- B. Place the switch in the CLEAN position. The auger will start to rotate.
- C. Allow the water to agitate for approximately 30 seconds.
- D. Open the spigot to drain the water. Remember to place a container under the spigot to catch the water. When the water has drained, place the switch in the OFF (middle) position. Allow the freezing cylinder to drain completely.
- E. Prepare sanitizing solution according to manufacturer's instructions to provide a 100 ppm strength solution. Mix the sanitizer in quantities of no less than 2 gallons of 90° to 110°F (32° to 43°C) water. Check the strength of the sanitizing solution. Use a chlorine test strip and color chart to make sure the solution has 100 ppm. Repeat steps A through D using the sanitizing solution.

### 3.7 DISASSEMBLY OF FREEZER PARTS

Inspection for worn or broken parts should be made each time the freezer is disassembled. All worn or broken parts should be replaced to ensure safety to both the operator and the customer and to maintain good freezer performance and a quality product. Frequency of cleaning must comply with the local health regulations.

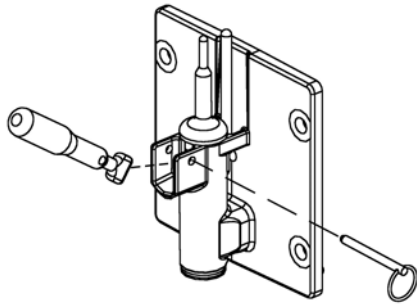
To disassemble the freezer, refer to the following steps:



#### Hazardous Moving Parts.

Revolving auger shaft can grab and cause injury. Place the switch in the OFF (middle) position before disassembling for cleaning or servicing.

- A. Make sure the freezer has been drained of mix. Remove hopper cover.
- B. Pull out the spigot pin by its ring (Refer to Figure 3-3).



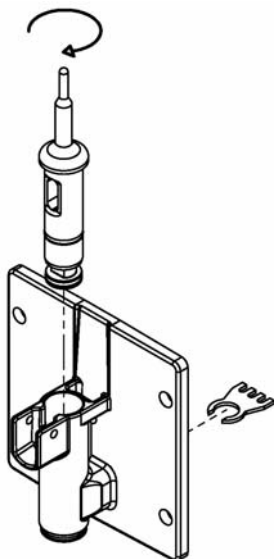
**Figure 3-3 Remove Spigot Pin**

- C. Remove the spigot handle.
- D. Remove front door by turning the circular knobs and then pulling door off the studs.

**NOTE**

*When removing front door, entire door and stator assembly will come out as well.*

- E. Remove torque rod from stator assembly.
- F. Remove quad ring from groove in front door.
- G. Remove stator bar. Remove o-ring and white bushing from stator bar.
- H. Remove auger support bushing.
- I. Turn the spigot body until the ice breaker bar can be removed. Remove breaker bar (Refer to Figure 3-4).
- J. Remove spigot body from the front door.



**Figure 3-4 Spigot and Ice Breaker Bar Removal**

- K. Remove o-rings (2) from the spigot by first wiping off the lubricant using a clean paper towel. Then squeeze the o-ring upward with a dry cloth. When a loop is formed, roll the o-ring out of the groove (Refer to Figure 3-5).



**Figure 3-5 Remove O-Ring**

- L. Remove auger assembly from the freezing cylinder and remove auger blades.
- M. Remove rear seal and o-ring from auger.
- N. Remove the flavor pumps from the bottles.
- O. Remove drain tray, drip tray and drip tray grid.

**3.8 CLEANING THE FREEZER PARTS**

Place all loose parts in a pan or container and take to the wash sink for cleaning. Local and state health codes dictate the procedure required. Some health codes require a four-sink process (pre-wash, wash, rinse, sanitize, and air-dry), while other codes require a three-sink process (without the pre-wash step). The following procedures are a general guideline only. Consult your local and state health codes for procedures required in your location.

- A. Prepare detergent water by mixing 2 oz. of Palmolive detergent or equivalent in 2 gallons of 90° to 110°F (32° to 43°C) water. Place all parts in detergent solution and clean with provided brushes. Prepare sanitizing solution by mixing 2 oz. of Palmolive detergent or equivalent in 2 gallons of 90° to 110°F (32° to 43°C) water.
- B. Prepare sanitizing solution according to manufacturer's instructions to provide a 100 ppm strength solution. Mix the sanitizer in quantities of no less than 2 gallons of 90° to 110°F (32° to 43°C) water. Check the strength of the sanitizing solution. Use a chlorine test strip and color chart to make sure the solution has 100 ppm.
- C. Place all parts in detergent solution and clean with provided brushes. Rinse all parts with clean 90° to 110°F (32° to 43°C) water. Place the parts in the sanitizing solution.
- D. Wash the hopper and freezing cylinder with the 90° to 110°F (32° to 43°C) detergent water and brushes provided (Refer to Figure 3-6).



**Figure 3-6 Brush Freezing Cylinder**

- E. Clean the rear seal surfaces from the inside of the freezing cylinder with the 90° to 110°F (32° to 43°C) detergent water.

### 3.9 SANITIZE FREEZER AND FREEZER PARTS

- A. Use Stera-Sheen or equivalent sanitizing solution mixed according to manufacturer's instructions to provide 100 parts per million strength solution. Mix sanitizer in quantities of no less than 2 gallons (7.5 liters) of 90° to 110°F (32° to 43°C) water. Any sanitizer must be used only in accordance with the manufacturer's instructions.
- B. With the large brush provided, sanitize the rear of the freezing cylinder by dipping the brush in the sanitizing solution and brushing the rear of the cylinder.

**CAUTION**

Do not allow sanitizer to remain in contact with stainless steel freezer parts for prolonged periods. Prolonged contact of sanitizer with freezer may cause corrosion of stainless steel parts.

### 3.10 ASSEMBLY OF FREEZER

To assemble the freezer parts, refer to the following steps:

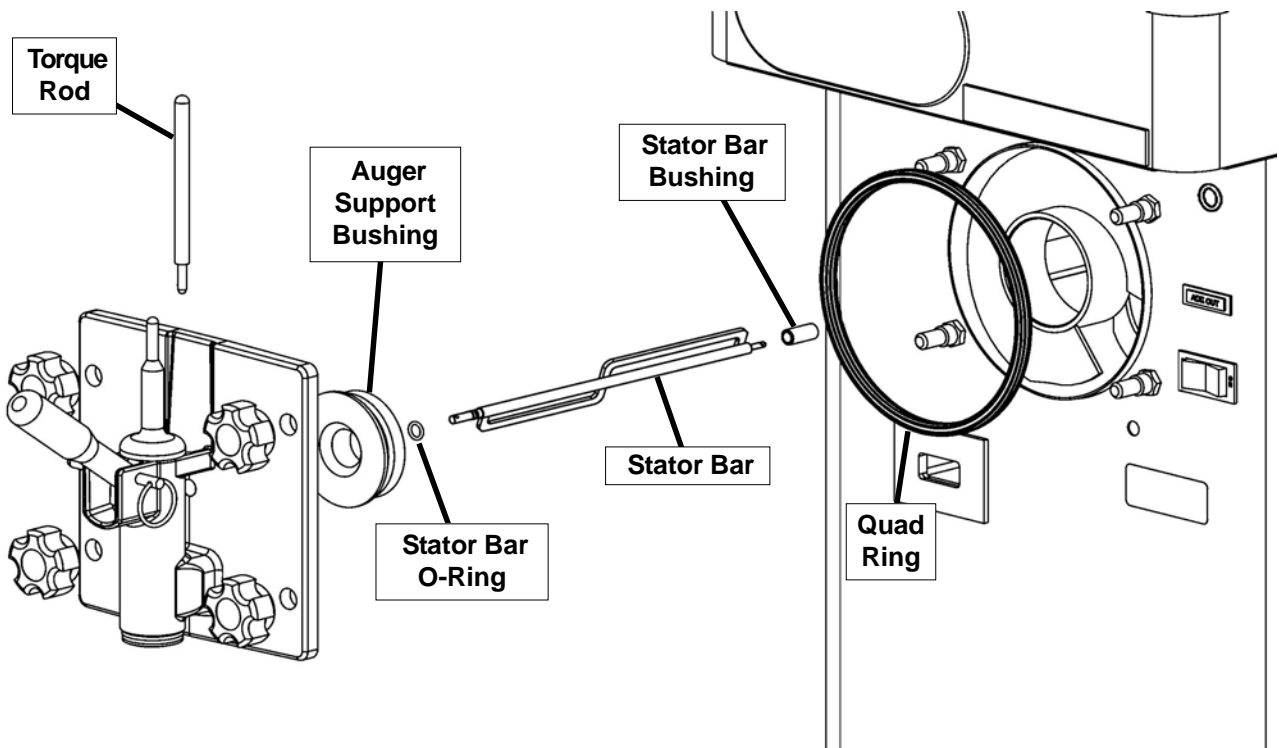
**NOTE**

*Petrol Gel sanitary lubricant or equivalent must be used when lubrication of parts is specified.*

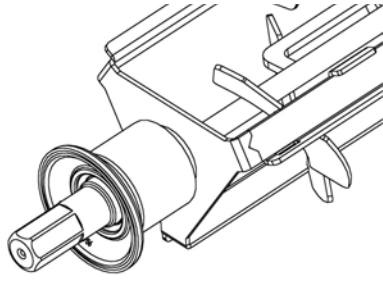
**NOTE**

*The United States Department of Agriculture and the Food and Drug Administration require that lubricants used on food processing equipment be certified for this use. Use lubricants only in accordance with the manufacturer's instructions.*

- A. Assemble all o-rings onto parts dry, without lubrication. Then apply a thin film of sanitary lubrication to exposed surfaces of the o-rings. Also apply a thin film of sanitary lubricant to the inside and outside of the auger support bushing, and to the inside and outside of the stator bar bushing.



**figure 3-8 Door and Stator Assembly**



**Figure 3-7 Install Rear Seal**

- B. Assemble the rear seal onto the auger with the large end to the rear. Be sure the o-ring is in place before installing the rear seal (Refer to Figure 3-7).
- C. Put a small amount of white Hex Drive Anti Seize (spline lube) on the hex end of the auger shaft. A small container of Anti Seize is shipped with the freezer.
- D. Install the plastic auger blade onto the auger.
- E. Push the auger into freezing cylinder and rotate it slowly until it engages the drive shaft.
- F. Insert the spigot body into front door.

**NOTE**

*Press the o-rings against the spigot body when inserting it into the front door to prevent damage.*

- G. Turn spigot body until the ice breaker bar can be inserted. Insert breaker bar and rotate spigot body 90°.
- H. Install auger support bushing onto front door so beveled edge of bushing is against door.
- I. Install the white stator bar bushing onto the rear of the stator bar and insert stator into spigot.
- J. Insert the torque rod. The rod should be placed through the hole in stator bar.
- K. Install the front door onto the freezer.

**NOTE**

*When installing the door onto the freezer, the torque rod must be placed in the center of the metal torque actuator arm.*

- L. Install the knobs on the freezer studs.
- M. Look for a proper seal between the freezing cylinder, quad ring, and front door
- N. Insert the spigot handle so the hole lines up and insert the spigot pin.
- O. Install the flavor pumps onto the bottles and place them into the flavor rack.
- P. Install the hopper cover, drain tray, drip tray, and drip tray grid.

**3.11 ROUTINE CLEANING**

To remove spilled or dried mix from the freezer exterior, wash in the direction of the finish with warm soapy water and wipe dry. Do not use highly abrasive materials as they will mar the finish.

**3.12 PREVENTIVE MAINTENANCE**

**A. DAILY**

- 1. The exterior should be kept clean at all times to preserve the luster of the stainless steel. A mild alkaline cleaner is recommended. Use a soft cloth or sponge to apply the cleaner.

**B. WEEKLY**

- 1. Check the o-rings and the rear seal for excessive wear and replace them if necessary.
- 2. Remove the drip tray by gently lifting it up and pulling it out. Clean behind the drip tray and front of the freezer with a soap solution.

**C. QUARTERLY**

**Air Cooled Freezer**

The air-cooled condenser is a copper tube and aluminum fin type. Condensing is totally dependent upon airflow. A plugged condenser filter, condenser, or restrictions in the louvered panel will restrict airflow. This will lower the capacity of the system and damage the compressor.

The condenser must be kept clean of dirt and grease. The U218 must have a minimum of 3" (7.6 cm) of ventilation at the front and back of the unit for free flow of air. Make sure the air entering the freezer is under 100° F (37° C).

The condenser and condenser filter require periodic cleaning. To clean, refer to the following procedures.

**Condenser Filter Cleaning**

- 1. The condenser filter is located at the front of the freezer. It is mounted to the freezer by brackets at the top and bottom of the front panel. Remove the filter by sliding it to the side.
- 2. Visually inspect the filter for dirt. If it is dirty, shake or brush the excess dirt off the filter and wash it in warm, soapy water.
- 3. Once the filter is clean, rinse it thoroughly in warm, clear water and shake dry, taking care not to damage the filter in any way.

**Condenser Cleaning**

- 1. Disconnect (unplug) from the electrical supply source.
- 2. Remove the Phillips head screw from the bottom of the right side panel, and then slide the panel down and out.
- 3. Visually inspect the condenser for dirt by shining a light through the coil from the back (inside) of the condenser.



4. If the condenser is dirty, place a wet towel over the front (outside) of the condenser.
5. Using a vacuum, carefully clean the condenser coil from the inside and outside of the freezer. A stiff bristled brush may help in releasing debris from between the condenser coils.

### **Water Cooled Freezer**

The water-cooled condenser is a tube and shell type. The condenser needs a cool, clean supply of water to properly cool the freezer, inlet and discharge lines must be 3/8" I.D. minimum. Make sure the freezer is receiving an unrestricted supply of cold, clean water.

#### **E. SEMI-ANNUALLY**

1. Disconnect the freezer from the power source.
2. Check drive belt for proper tension. Push belt in with one finger, belt should deflect about 3/8".
3. Lubricate condenser fan motor with S.A.E. 20 weight oil. Three to six drops are required.

### **3.13 EXTENDED STORAGE**

Refer to the following steps for storage of the freezer over any long period of shutdown time:

- A. Place the CLEAN-OFF-ON switch in the OFF (middle) position.
- B. Disconnect (unplug) from the electrical supply source.
- C. With warm detergent water, thoroughly clean all parts that come in contact with mix. Rinse the parts in clean water and dry them. Do not sanitize.

#### **NOTE**

*Do not let the cleaning solution stand in the hopper or in the freezing cylinder during the shutdown period.*

- D. In a water cooled freezer, disconnect water lines and drain water. With a flathead screwdriver, hold the water valve open and use compressed air to clear the lines of any remaining water.



## SECTION 4 TROUBLESHOOTING

### 4.1 LIGHT INDICATORS

The freezer has two lights that will alert the user if a problem occurs: an ADD MIX light and a Diagnostic Light.

The ADD MIX light will flash to alert the operator to a low mix condition. It does so by monitoring the mix level in the hopper. When the ADD MIX light is flashing, refill hopper immediately.

The Diagnostic Light will flash if an error occurs. Refer to the chart below for details.

Indication	On	One Blink	Two Blinks	Three Blinks
<b>Conditions</b>	Defrost Mode	Torque is not met after 20 minutes (22 minutes for shake)	Drive current is not sensed	Freezer left in clean mode for over 20 minutes
<b>Self Correction</b>	N/A	N/A	The freezer attempts to sense drive current with a 3 second pre-stir. If current is sensed, the freezer will return to normal operation. If current is not sensed, the freezer will wait 7 minutes and try to sense current with another 3 second pre-stir. After the third attempt, the compressor will run on timers.	N/A
<b>Operation</b>	Every 7 minutes the auger will run for 90 seconds.	Timers	Timers	Off
<b>Corrective Action</b>	N/A	Contact Service Technician	Contact Service Technician	Turn CLEAN-OFF-ON switch to OFF (middle) position then turn the switch to ON.

### 4.2 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
<b>Freezer does not run.</b>	<ol style="list-style-type: none"> <li>1. Power to freezer is off.</li> <li>2. Blown fuse or tripped circuit.</li> <li>3. Freeze-up (auger will not turn).</li> <li>4. High pressure cut-out tripped.</li> <li>5. Front door not in place.</li> </ol>	<ol style="list-style-type: none"> <li>1. Supply power to freezer.</li> <li>2. Replace or reset.</li> <li>3. Turn CLEAN-OFF-ON switch to OFF (middle) position for 15 minutes, then restart.</li> <li>4. Wait until automatic reset for freezer to start.</li> <li>5. Assemble front door in place.</li> </ol>
<b>Freezer will not shut off.</b>	<ol style="list-style-type: none"> <li>1. Drive belt failure.</li> <li>2. Consistency temperature setting is too firm.</li> <li>3. Refrigeration problem.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace drive belt.</li> <li>2. Turn Consistency Adjustment knob counter-clockwise.</li> <li>3. Check system. (Call distributor for service)</li> </ol>
<b>Product is too firm.</b>	<ol style="list-style-type: none"> <li>1. Consistency temperature setting is too firm.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn Consistency Adjustment knob counter-clockwise.</li> </ol>

## 4.2 TROUBLESHOOTING - CONTINUED

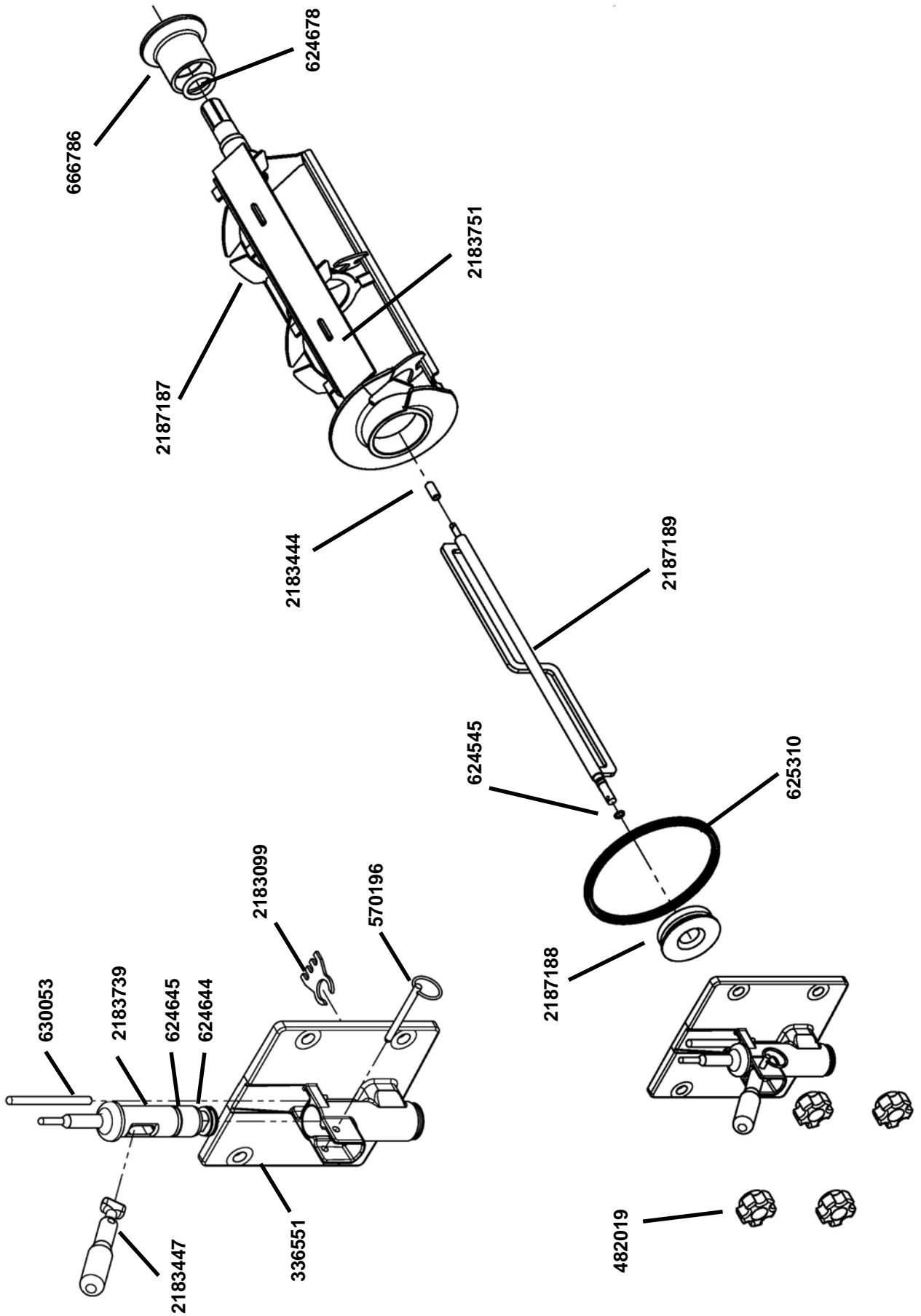
PROBLEM	POSSIBLE CAUSE	REMEDY
<b>Product is too soft.</b>	<ol style="list-style-type: none"> <li>1. No vent space for free flow of cooling air.</li> <li>2. Air temperature entering condenser is above 100°F.</li> <li>3. Condenser is dirty.</li> <li>4. Consistency setting too soft.</li> <li>5. Stabilizers in mix are broken down.</li> <li>6. Auger is assembled incorrectly.</li> <li>7. Refrigeration problem.</li> </ol>	<ol style="list-style-type: none"> <li>1. A minimum of 3" of vent space required. (See Section 2)</li> <li>2. Change location or direct hot air away from freezer.</li> <li>3. Clean. (See Section 3)</li> <li>4. Turn Consistency Adjustment knob clockwise.</li> <li>5. Remove mix, clean, sanitize and freeze down with fresh mix.</li> <li>6. Remove mix, clean, reassemble, sanitize and freeze down.</li> <li>7. Check system. (Call distributor for service)</li> </ol>
<b>Product does not dispense.</b>	<ol style="list-style-type: none"> <li>1. No mix in hopper.</li> <li>2. Capacity of freezer is being exceeded.</li> <li>3. Drive motor overload tripped.</li> <li>4. Drive belt failure.</li> <li>5. Freeze-up (Auger will not turn).</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill hopper with mix.</li> <li>2. Slow up on the draw rate.</li> <li>3. Wait for automatic reset. (If condition continues, call distributor for service.)</li> <li>4. Replace drive belt.</li> <li>5. Turn CLEAN-OFF-ON switch to OFF (middle) position for 15 minutes, then restart.</li> </ol>
<b>Drive belt slipping or squealing.</b>	<ol style="list-style-type: none"> <li>1. Worn drive belt.</li> <li>2. Freeze-up (Auger will not turn).</li> <li>3. Not tensioned properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace drive belt.</li> <li>2. Turn CLEAN-OFF-ON switch to OFF (middle) position for 15 minutes, then restart.</li> <li>3. Adjust belt tension</li> </ol>
<b>Rear auger seal leaks.</b>	<ol style="list-style-type: none"> <li>1. Outside surface of rear auger seal is lubricated.</li> <li>2. Rear seal missing or damaged.</li> <li>3. Seal o-ring missing, damaged or installed incorrectly.</li> <li>4. Worn or scratched auger shaft.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean lubricant from outside of rear seal, lubricate inside of seal and reinstall.</li> <li>2. Check or replace.</li> <li>3. Check. or replace.</li> <li>4. Replace auger shaft.</li> </ol>
<b>Front door leaks.</b>	<ol style="list-style-type: none"> <li>1. Front door knobs are loose.</li> <li>2. Spigot parts are not lubricated.</li> <li>3. Chipped or worn spigot o-rings.</li> <li>4. O-rings or spigot installed wrong.</li> <li>5. Inner spigot hole in front door nicked or scratched.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten knobs.</li> <li>2. See Section 3.</li> <li>3. Replace o-rings.</li> <li>4. Remove spigot and check o-ring.</li> <li>5. Replace front door.</li> </ol>

## SECTION 5 REPLACEMENT PARTS

### 5.1 DECALS AND LUBRICATION

Part	Description	Quantity
208135	Brush - 4" X 8" X 16" (Barrel)	1
208380	Brush - 1/4" X 3" X 14"	1
208401	Brush - 1" X 3" X 10"	1
324105	Decal - Caution Electrical Shock	1
324106	Decal - Caution Electrical Wiring Materials	1
324107	Decal - Caution Hazardous Moving Parts	1
324141	Decal - Caution Rotating Blades	1
324208	Decal - Attention Refrigerant Leak Check	1
324393	Decal - Stoelting Swirl Logo	1
324509	Decal - Cleaning Instructions	1
324548	Decal - Adequate Ventilation 6"	1
324566	Decal - Wired According To	1
324686	Decal - Danger Automatic Start	1
324804	Decal - Domed Stoelting Swirl (Header Panel)	1
324852	Decal - Clean Condenser Filter	1
324853	Decal - Warmer / Colder	1
508048	Lubricant - Spline (2 oz Squeeze Tube)	1
508135	Petrol Gel - 4 oz Tube	1

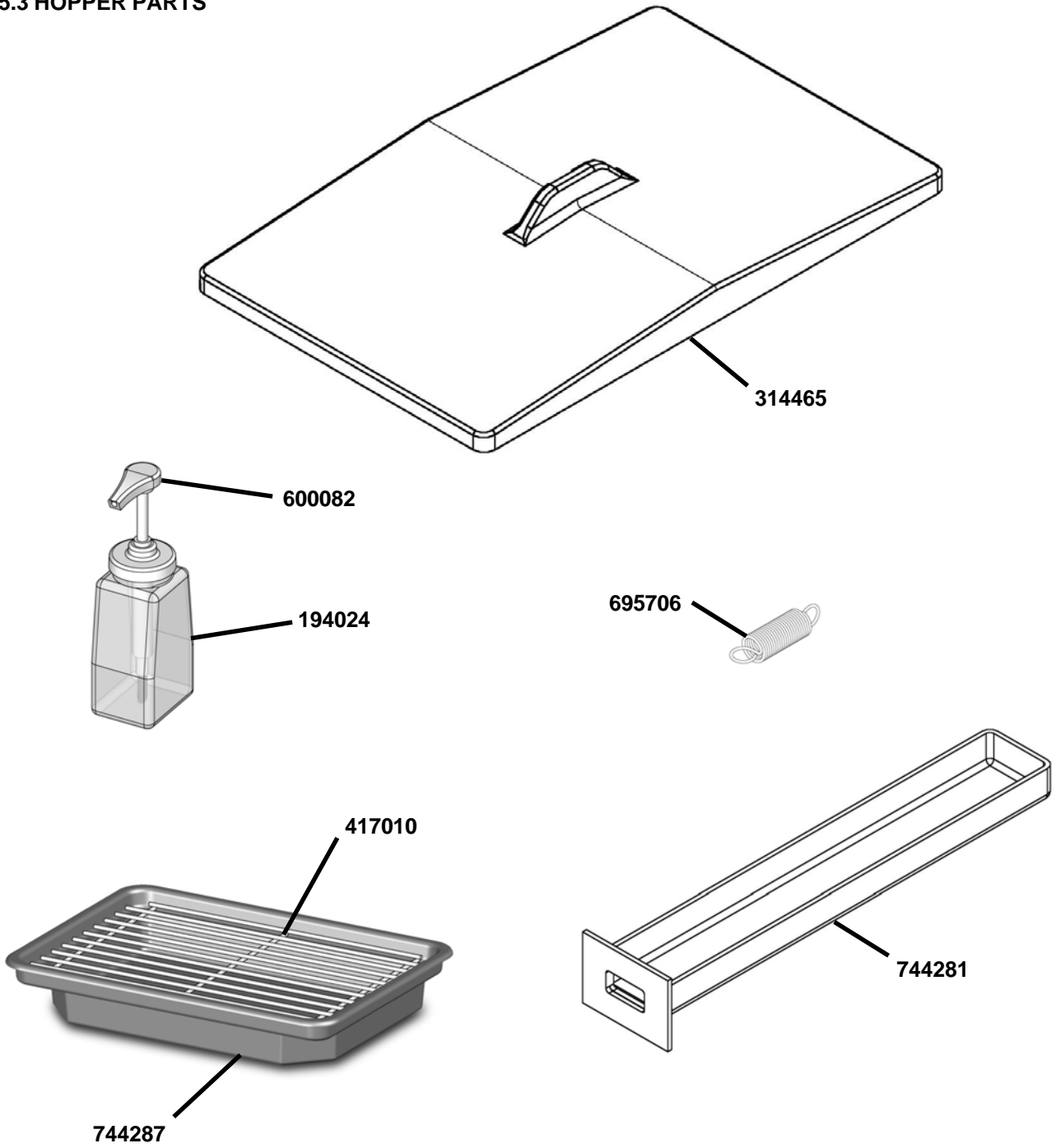
## 5.2 AUGER SHAFT AND FACEPLATE PARTS



**5.2 AUGER SHAFT AND FACEPLATE PARTS - CONTINUED**

<b>Part</b>	<b>Description</b>	<b>Quantity</b>
336551	Door - Front	1
482019	Knob - Front Door (Black)	4
570196	Pin - Cotterless Clevis (Front Door)	1
624545-5	O-Ring - Stator Bar (5 Pack)	1
624644-5	O-Ring - Spigot Body (Bottom) (5 Pack)	1
624645-5	O-Ring - Spigot Body (Top) (5 Pack)	1
624678-5	O-Ring - Rear Seal - Black (5 Pack)	1
625310	Quad-Ring - Front Door - Black	1
630053	Rod - Torque Actuator	1
666786	Seal - Rear Auger - Black	1
2183099	Breaker Bar - Spigot Body	1
2183444	Bushing - Stator Support (Rear)	1
2183447	Spigot Handle	1
2183739	Spigot Body	1
2183751	Blade - Scraper	1
2187187	Auger Shaft	1
2187188	Bushing - Front Auger Support	1
2187189	Stator Bar	1

### 5.3 HOPPER PARTS



Part	Description	Quantity
194024	Bottle - Flavor	7
314465	Cover - Hopper	1
417010	Grid - Drip Tray	1
600082	Pump - Flavor	7
624607-5	O-Ring - Mix Inlet (5 Pack)	2
695706	Spring - Consistency Adjustment (Green)	1
744287	Tray - Drip	1
744281	Tray - Drain	1



## 5.4 AUTOFILL OPTIONS

The E112 and F112 freezers can easily be configured to use an Autofill System. The Autofill System provides a constant supply of non-dairy mix to the freezer.

### AUTOFILL KIT

An autofill kit is needed to use an Autofill System. The kit includes a solenoid, tubing, and a new hopper cover (the F112 also includes a transformer). See below for the Autofill Kit part numbers.

### AUTOFILL SYSTEMS

There are two Autofill Systems available: the Fill-O-Matic II and the Fill-O-Matic III. See below for details on the Autofill Systems.

#### Fill-O-Matic II

The Fill-O-Matic II is powered through an electrical outlet and pumps up to 60 gallons per hour.

#### Fill-O-Matic III

The Fill-O-Matic III is powered by gas and pumps up to 45 gallons per hour.



**Fill-O-Matic II & Fill-O-Matic III**

<b>Fill-O-Matic II</b>	
<b>Part Numbers</b>	Autofill System: 4177349 E112 Autofill Kit: 2183807 F112 Autofill Kit: 2187101
<b>Usage</b>	For use with non-potentially hazardous food substances; non-dairy
<b>Dimensions</b>	L 11-1/2" x W 11-1/2" x H 32-1/2"
<b>Electrical</b>	115VAC 60Hz 55A power cord provided
<b>Mix Storage</b>	15 gallon plastic tank
<b>Clean Process</b>	Removable strainer allows for easy cleaning
<b>Output</b>	Pumps up to 60 gallons per hour

<b>Fill-O-Matic III</b>	
<b>Part Numbers</b>	Autofill System: 4177370 E112 Autofill Kit: 2183807 F112 Autofill Kit: 2187101
<b>Usage</b>	For use with non-potentially hazardous food substances; non-dairy
<b>Dimensions</b>	L 11-1/2" x W 11-1/2" x H 27-1/2"
<b>Electrical</b>	No electrical connections required Powered by CO <sub>2</sub> , Nitrogen or compressed air
<b>Mix Storage</b>	15 gallon plastic tank
<b>Clean Process</b>	Clean-in-place by pumping solution through hoses
<b>Output</b>	Pumps up to 45 gallons per hour





## **WARRANTY MIX TRANSFER PUMPS / COCKTAIL / SLUSH**

**1. Scope:**

Stoelting LLC warrants to the first user (the "Buyer") that the evaporator assembly and compressor (if applicable) of Stoelting mix transfer pump, cocktail and slush equipment will be free from defects in materials and workmanship under normal use and proper maintenance appearing within five (5) years (two (2) years for "Mirage" equipment), and that all other components of such equipment manufactured by Stoelting will be free from defects in material and workmanship under normal use and proper maintenance appearing within twelve (12) months after the date that such equipment is originally installed.

**2. Disclaimer of Other Warranties:**

**THIS WARRANTY IS EXCLUSIVE; AND STOELTING HEREBY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.**

**3. Remedies:**

Stoelting's sole obligations, and Buyer's sole remedies, for any breach of this warranty shall be the repair or (at Stoelting's option) replacement of the affected component at Stoelting's plant in Kiel, Wisconsin, or (again, at Stoelting's option) refund of the purchase price of the affected equipment, and, during the first twelve (12) months (ninety (90) days for "Mirage" equipment) of the warranty period, deinstallation/reinstallation of the affected component from/into the equipment. Those obligations/remedies are subject to the conditions that Buyer (a) signs and returns to Stoelting, upon installation, the Warranty Registration Card for the affected equipment, (b) gives Stoelting prompt written notice of any claimed breach of warranty within the applicable warranty period, and (c) delivers the affected equipment to Stoelting or its designated service location, in its original packaging/crating, also within that period. Buyer shall bear the cost and risk of shipping to and from Stoelting's plant or designated service location.

**4. Extensions:**

The warranty period for the drive motor and speed reducer to be free of defects in materials and workmanship extended to five (5) years on the following models: E112, F112, SO218, SO318, SO328, U218

**5. Exclusions and Limitations:**

This warranty does not extend to parts, sometimes called "wear parts", which are generally expected to deteriorate and to require replacement as equipment is used, including as examples but not intended to be limited to o-rings, hoses, seals and drive belts. All such parts are sold

**AS IS.**

Further, Stoelting shall not be responsible to provide any remedy under this warranty with respect to any component that fails by reason of negligence, abnormal use, misuse or abuse, use with parts or equipment not manufactured or supplied by Stoelting, or damage in transit.

**THE REMEDIES SET FORTH IN THIS WARRANTY SHALL BE THE SOLE LIABILITY STOELTING AND THE EXCLUSIVE REMEDY OF BUYER WITH RESPECT TO EQUIPMENT SUPPLIED BY STOELTING; AND IN NO EVENT SHALL STOELTING BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY OR OTHER CONTRACT BREACH, NEGLIGENCE OR OTHER TORT, OR ON ANY STRICT LIABILITY THEORY.**