

OPERATOR'S MANUAL



Model C043 Frozen Custard Machine

Original Operating Instructions

068359- M

7/22/10 (Original Publication)
(Updated 9/14/15)

Complete this page for quick reference when service is required:

Taylor Distributor: _____

Address: _____

Phone: _____

Service: _____

Parts: _____

Date of Installation: _____

Information found on the C043 data label:

Model Number: _____

Serial Number: _____

Electrical Specs: Voltage _____ Cycle _____

Phase _____

Maximum Fuse Size: _____ Amps

Minimum Wire Ampacity: _____ Amps

Part Number: _____

Information found on RC35 data label:

Model Number: _____

Serial Numbers: _____

Electrical Specs: Voltage _____ Cycle _____

Phase _____

Maximum Fuse Size: _____ Amps

Minimum Wire Ampacity: _____ Amps

© 2010 Carrier Commercial Refrigeration, Inc.

068359-M

Any unauthorized reproduction, disclosure, or distribution of copies by any person of any portion of this work may be a violation of Copyright Law of the United States of America and other countries, could result in the awarding of Statutory Damages of up to \$250,000 (17 USC 504) for infringement, and may result in further civil and criminal penalties. All rights reserved.



Taylor Company
a division of Carrier Commercial Refrigeration, Inc.
750 N. Blackhawk Blvd.
Rockton, IL 61072

Table of Contents

Section 1	To the Installer	1
	Installer Safety	1
	Site Preparation	1
	Air Cooled Units	2
	Water Cooled Units	2
	Electrical Connections	2
Section 2	To the Operator	4
Section 3	Safety	6
Section 4	Operator Parts Identification	8
	C043	8
	Beater Door & Hopper Assemblies	10
	Accessories	12
Section 5	Important to Operator	13
Section 6	Operating Procedures	14
	Assembly	14
	Sanitizing	18
	Priming	21
	Hold Cycle During Operation	23
	Resuming Production During Operation	25
	Preparing for Shutdown	27
	Rinsing	28
	Cleaning	30
	Disassembly	32
	Brush Cleaning	33

Section 7	Important: Operator Checklist	36
	During Cleaning and Sanitizing	36
	Troubleshooting Bacterial Count	36
	Regular Maintenance Checks	36
	Winter Storage	37
Section 8	Troubleshooting Guide	38
Section 9	Parts Replacement Schedule	39
Section 10	Limited Warranty on Equipment	40
Section 11	Limited Warranty on Parts	42

Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.

Note: Only instructions originating from the factory or its authorized translation representative(s) are considered to be the original set of instructions.

© 2010 Carrier Commercial Refrigeration, Inc. (Original Publication)

(Updated September, 2015)

068359-M

Any unauthorized reproduction, disclosure, or distribution of copies by any person of any portion of this work may be a violation of Copyright Law of the United States of America and other countries, could result in the awarding of Statutory Damages of up to \$250,000 (17 USC 504) for infringement, and may result in further civil and criminal penalties.

All rights reserved.



Taylor Company
a division of Carrier Commercial Refrigeration, Inc.
750 N. Blackhawk Blvd.
Rockton, IL 61072

Section 1

To the Installer

The following information has been included in the manual as safety and regulatory guidelines. For complete installation instructions, please see the Installation Checklist.

Installer Safety



In all areas of the world, equipment should be installed in accordance with existing local codes. Please contact your local authorities if you have any questions.

Care should be taken to ensure that all basic safety practices are followed during the installation and servicing activities related to the installation and service of Taylor® equipment.

- Only authorized Taylor service personnel should perform installation, maintenance, and repairs on Taylor equipment.
- Authorized service personnel should consult OSHA Standard 29CFR1910.147 or the applicable code of the local area for the industry standards on lockout/tagout procedures before beginning any installation or repairs.
- Authorized service personnel must ensure that the proper personal protective equipment (PPE) is available and worn when required during installation and service.
- Authorized service personnel must remove all metal jewelry, rings, and watches before working on electrical equipment.



The main power supply(s) to the unit must be disconnected prior to performing any installation, maintenance, or repairs. Failure to follow this instruction may result in personal injury or death from electrical shock or hazardous moving parts as well as poor performance or damage to the unit.



This unit has many sharp edges that can cause severe injuries.

Note: All repairs must be performed by an authorized Taylor service technician.

Site Preparation

Review the area where the unit will be installed before uncrating the unit. Make sure that all possible hazards to the installer, user, and the unit have been addressed.

For Indoor Use Only: The Model C043 is designed to operate indoors, under normal ambient temperatures of 70°-75°F (21°-24°C). The unit has successfully performed in high ambient temperatures of up to 104°F (40°C) at reduced capacities.



This unit must **NOT** be installed in an area where a water jet or hose can be used. **NEVER** use a water jet or hose to rinse or clean the unit. Failure to follow this instruction may result in electrocution.



This unit must be installed on a level surface to avoid the hazard of tipping. Extreme care should be taken in moving this unit for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or damage to the unit.

Uncrate the unit and inspect it for damage. Promptly report any damage to your local authorized Taylor distributor.

This unit is made using USA sizes of hardware. All metric conversions are approximate.

Air Cooled Units

DO NOT obstruct air intake and discharge openings:

C043: A minimum air clearance of 3" (76 mm) is required on the left side and rear of the unit, and 0" on the right side. The drip tray can be installed on either side. That side requires 36" (914 mm) to allow for installation and removal of drip tray. Allow 36" (914 mm) at the rear of the unit for service access.

Each air cooled C043 requires three RC35 remote condensing systems.

RC35: Each 60 Hz remote condenser requires a minimum air clearance of 6" (152 mm) on three sides.

Each 50 Hz remote condenser requires a minimum air clearance of 12" (305 mm) on three sides.

An air deflector must be installed on the condenser side of each RC35 if the floor clearance is less than 5" (127 mm). (**Note:** The legs are typically mounted on 4" x 4" lumber to achieve the minimum floor clearance.)

Failure to allow adequate air clearance can reduce the refrigeration capacity of the unit and possibly cause permanent damage to the compressor.

Water Cooled Units

C043: The minimum air clearance requirement is 3" (76 mm) on both sides and at the rear of the unit. The drip tray can be installed on either side. That side requires 36" (914 mm) to allow for the installation and removal of the drip tray. Allow 36" (914 mm) at the rear of the unit for service access.

Water Connections

An adequate cold water supply must be provided with a hand shut-off valve. On the underside of the base pan or on the right side, two 3/8" I.P.S. water connections for inlet and outlet are provided for easy hook-up. 1/2" inside diameter water lines should be connected to the machine. (Flexible lines are recommended, if local codes permit.) Depending on local water conditions, it may be advisable to install a water strainer to prevent foreign substances from clogging the automatic water valve.

There will be only one water "in" and one water "out" connection. DO NOT install a hand shut-off valve on the water "out" line! Water should always flow in this order: first, through the automatic water valve; second, through the condenser; and third, through the outlet fitting to an **open trap drain**.

Minimum water pressure is 30 psi (207 kPa) and maximum water pressure is 150 psi (1034 kPa).



A back flow prevention device is required on the incoming water connection side. Please refer to the applicable National, State, and local codes for determining the proper configuration.

Electrical Connections

In the United States, this unit is intended to be installed in accordance with the current edition of the National Electrical Code (NEC), ANSI/NFPA 70 which governs the installation of the unit at the local governmental level.

The purpose of the NEC code is the practical safeguarding of persons and property from hazards arising from the use of electricity. This code contains provisions considered necessary for safety.

In all other areas of the world, the unit should be installed in accordance with the existing local codes. Please contact your local authorities.



FOLLOW YOUR LOCAL ELECTRICAL CODES!

Each unit requires one power supply for each data label on the unit. Check the data label(s) on the unit for branch circuit overcurrent protection or fuse, circuit ampacity, and other electrical specifications. Refer to the wiring diagram provided inside of the electrical box for proper power connections.



CAUTION: THIS UNIT MUST BE PROPERLY GROUNDED! FAILURE TO DO SO CAN RESULT IN SEVERE PERSONAL INJURY FROM ELECTRICAL SHOCK!



This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the unit's frame.



- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3 mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

If the supply cord is damaged, it must be replaced by an authorized Taylor service technician in order to avoid a hazard.

Beater Rotation



Beater rotation must be counter-clockwise as viewed looking into the freezing cylinder.

If the beater rotation is not counter-clockwise, contact your local authorized Taylor service technician.

Refrigerant



In consideration of our environment, Taylor proudly uses only earth friendly HFC refrigerants. The HFC refrigerants used in this unit are R404A and R134a. These refrigerants are generally considered non-toxic and non-flammable, with an Ozone Depleting Potential (ODP) of zero (0).

However, any gas under pressure is potentially hazardous and must be handled with caution.

NEVER fill any refrigerant cylinder completely with liquid. Filling the cylinder to approximately 80% will allow for normal expansion.



Only R404A and R134a refrigerant that conforms to the AHRI standard 700 specification may be used. The use of any other refrigerant may expose users and operators to unexpected safety hazards.



Refrigerant liquid sprayed onto the skin may cause serious damage to tissue. Keep eyes and skin protected. If refrigerant burns should occur, flush immediately with cold water. If burns are severe, apply ice packs and contact a physician immediately.



Taylor Company reminds technicians to be cautious of all applicable laws regarding refrigerant recovery, recycling, and reclaiming systems. If you have any questions regarding these laws, please contact the Taylor Company's Service Department.



WARNING: R404A and R134a refrigerant used in conjunction with polyolester oils is extremely moisture absorbent. When opening a refrigeration system, the maximum time the system is open must not exceed 15 minutes. Cap all open tubing to prevent humid air or water from being absorbed by the oil.

Section 2

To the Operator

Your unit has been carefully engineered and manufactured to give you dependable operation. When properly operated and cared for, it will produce a consistent quality product. Like all mechanical products, it will require cleaning and maintenance. A minimum amount of care and attention will be necessary if the operating procedures outlined in this manual are followed closely.



DO NOT operate the unit without reading this entire Operator Manual first. Failure to follow all of these operating instructions may result in damage to the unit, poor performance, health hazards, personal injury, or death.

Your Taylor unit will NOT eventually compensate for and correct any errors during the set-up or filling operations. Thus, the initial assembly and priming procedures are of extreme importance. It is strongly recommended that personnel responsible for the equipment's operation, both assembly and disassembly, go through these procedures together in order to be properly trained and to make sure that no confusion exists.

In the event you should require technical assistance, please contact your local authorized Taylor Distributor.

Note: Your Taylor warranty is valid only if the parts are authorized Taylor parts, purchased from the local authorized Taylor Distributor, and only if all required service work is provided by an authorized Taylor service technician. Taylor reserves the right to deny warranty claims on units or parts if non-Taylor approved parts or incorrect refrigerant were installed in the unit, system modifications were performed beyond factory recommendations, or it is determined that the failure was caused by abuse, misuse, neglect, or failure to follow all operating instructions. For full details of your Taylor Warranty, please see the Limited Warranty section in this manual.



■ If the crossed out wheeled bin symbol is affixed to this product, it signifies that this product is compliant with the EU Directive as well as other similar legislation in effect after August 13, 2005. Therefore, it must be collected separately after its use is completed, and cannot be disposed as unsorted municipal waste.

The user is responsible for returning the product to the appropriate collection facility, as specified by your local code.

For additional information regarding applicable local laws, please contact the municipal facility and/or local distributor.

Compressor Warranty Disclaimer

The refrigeration compressor(s) on this unit are warranted for the term stated in the Limited Warranty section in this manual. However, due to the Montreal Protocol and the U.S. Clean Air Act Amendments of 1990, many new refrigerants are being tested and developed, thus seeking their way into the service industry. Some of these new refrigerants are being advertised as drop-in replacements for numerous applications. It should be noted that in the event of ordinary service to this unit's refrigeration system, **only the refrigerant specified on the affixed data label should be used**. The unauthorized use of alternate refrigerants will void your Taylor compressor warranty. It is the unit owner's responsibility to make this fact known to any technician he employs.

It should also be noted that Taylor does not warrant the refrigerant used in its equipment. For example, if the refrigerant is lost during the course of ordinary service to this unit, Taylor has no obligation to either supply or provide replacement refrigerant either at billable or unbillable terms. Taylor will recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five (5) year Taylor warranty of the compressor.

From time-to-time Taylor may test new refrigerant alternates. Should a new refrigerant alternate prove, through Taylor's testing, that it would be accepted as a drop-in replacement for this unit, then the disclaimer in this "Compressor Warranty Disclaimer" section will not apply to the use of the alternate refrigerant approved by Taylor.

To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call Taylor or your local authorized Taylor distributor. Be prepared to provide the Model/Serial Number of the unit in question.

Note: Continuing research results in steady improvements; therefore, information in this Operator Manual is subject to change without notice.

Section 3

Safety

We, at Taylor Company, are concerned about the safety of the operator at all times when they are coming in contact with the unit and its parts. Taylor makes every effort to design and manufacture built-in safety features to protect both operators and service technicians.

Installing and servicing refrigeration equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service refrigeration equipment. When working on refrigeration equipment, observe precautions noted in the literature, tags and labels attached to the unit, and other safety precautions that may apply. Follow all safety code requirements. Wear safety glasses and work gloves.



IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury or death. Failure to comply with these warnings may also damage the unit and/or its components. Such damage may result in component replacement and service repair expenses.



DO NOT operate the unit without reading this entire Operator Manual first. Failure to follow all of these operating instructions may result in damage to the unit, poor performance, health hazards, personal injury, or death.



This unit is to be used only by trained personnel. It is not intended for use by children or people with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge. Where limited unit operation is allowed for public use, such as a self-serve application, supervision or instruction concerning the use of the unit by a trained person is required.



DO NOT use a water jet to clean or rinse the unit. Failure to follow these instructions may result in serious electrical shock.



- All repairs should be performed by an authorized Taylor service technician.
- The main power supplies to the unit must be disconnected prior to performing any installation, repair, or maintenance.
- **DO NOT** operate the unit unless it is properly grounded.
- **DO NOT** operate the unit with larger fuses than specified on the unit's data label.
- Cord Connected Units: Only authorized Taylor service technicians or licensed electricians may install a plug or replacement cord on these units.
- Units that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Stationary units which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3 mm installed in the external installation.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

If the supply cord is damaged, it must be replaced by an authorized Taylor service technician in order to avoid a hazard.

Failure to follow these instructions may result in electrocution. Contact your local authorized Taylor Distributor for service.



- **DO NOT** allow untrained personnel to operate this unit.
- **DO NOT** operate the unit unless all service panels and access doors are restrained with screws.
- **DO NOT** remove any internal operating parts (including, but not limited to, freezer door, beater, or scraper blades), unless all control switches are in the OFF position.

Failure to follow these instructions may result in severe personal injury, especially to fingers or hands, from hazardous moving parts.



This unit has many sharp edges that can cause severe injuries.

- **DO NOT** put objects or fingers in the door spout. This may contaminate the product and cause severe personal injury from blade contact.
- **USE EXTREME CAUTION** when removing the beater assembly. The scraper blades are very sharp.



This unit must be placed on a level surface. Extreme care should be taken when moving the unit for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or damage to the unit.



Access to the service area of the unit must be restricted to persons having knowledge and practical experience with the unit, in particular as far as safety and hygiene are concerned.



Cleaning and sanitizing schedules are governed by your state or local regulatory agencies and must be followed accordingly. Please refer to the cleaning section of this Operator Manual for the proper procedure to clean this unit.



This unit is designed to maintain product temperature under 41°F (5°C). Any product being added to this unit must be below 41°F (5°C). Failure

to follow this instruction may result in health hazards and poor freezer performance.

DO NOT run the unit without product. Failure to follow this instruction can result in damage to the unit.

For Indoor Use Only: The Model C043 is designed to operate indoors, under normal ambient temperatures of 70° - 75°F (21° - 24°C). The unit has successfully performed in high ambient temperatures of 104°F (40°C) at reduced capacities.

NOISE LEVEL: Airborne noise emission does not exceed 78 dB(A) when measured at a distance of 1.0 meter from the surface of the machine and at a height of 1.6 meters from the floor.

Minimum Air Clearances: Air Cooled Units

DO NOT obstruct air intake and discharge openings:

C043: A minimum air clearance of 3" (76 mm) is required on the left side and rear of the unit, and 0" on the right side. The drip tray can be installed on either side. That side requires 36" (914 mm) to allow for installation and removal of drip tray. Allow 36" (914 mm) at the rear of the unit for service access.

Each air cooled C043 requires three RC35 remote condensing systems.

RC35 (used with air cooled C043 unit, only):

Each 60 Hz remote condenser requires a minimum air clearance of 6" (152 mm) on three sides. Each 50 Hz remote condenser requires a minimum air clearance of 12" (305 mm) on three sides.

An air deflector must be installed on the condenser side of each RC35 if the floor clearance is less than 5" (127 mm). (**Note:** The legs are typically mounted on 4" x 4" lumber to achieve the minimum floor clearance.)

Failure to allow adequate air clearance can reduce the refrigeration capacity of the unit and possibly cause permanent damage to the compressor.

Minimum Air Clearances: Water Cooled Units

C043: The minimum air clearance requirement is 3" (76 mm) on both sides and at the rear of the unit. The drip tray can be installed on either side. That side requires 36" (914 mm) to allow for the installation and removal of the drip tray. Allow 36" (914 mm) at the rear of the unit for service access.

Section 4

Operator Parts Identification

C043

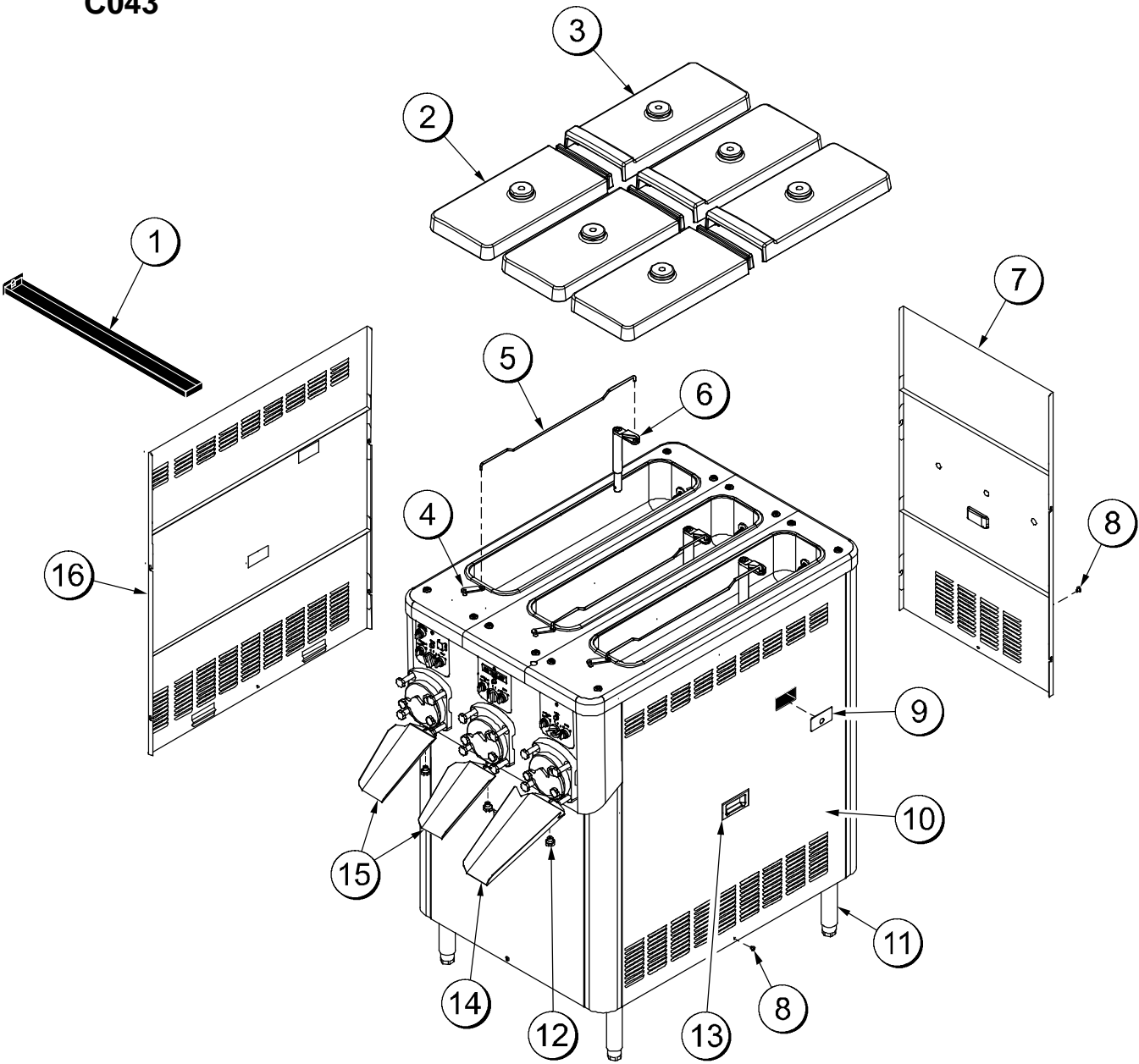


Figure 1

Exploded View Parts Identification

ITEM	DESCRIPTION	PART NO.
1	TRAY A.-DRIP	X63636
2	COVER-HOPPER-FRONT INS	065701
3	COVER-HOPPER-REAR INS	065700
4	LEVER A.-FLOW REG	X66923
5	ROD-FLOW CONTROL	063593
6	TUBE A.-FEED PLASTIC	X67453
7	PANEL A.-REAR	X63715
8	SCREW-1/4-20X3/8 PHIL TRUSS	038872

ITEM	DESCRIPTION	PART NO.
9	COVER A.-PANEL-SIDE	X65637
10	PANEL A.-SIDE RIGHT	X63720
11	LEG-8" 2"OD-3/4-10 STUD-HEX	044652
12	NUT-STUD	043666
13	HANDLE-STNLS FLUSH PULL	019043
14	CHUTE-LONG	063619
15	CHUTE-SHORT	063618
16	PANEL A.-SIDE LEFT	X63724

Beater Door & Hopper Assemblies

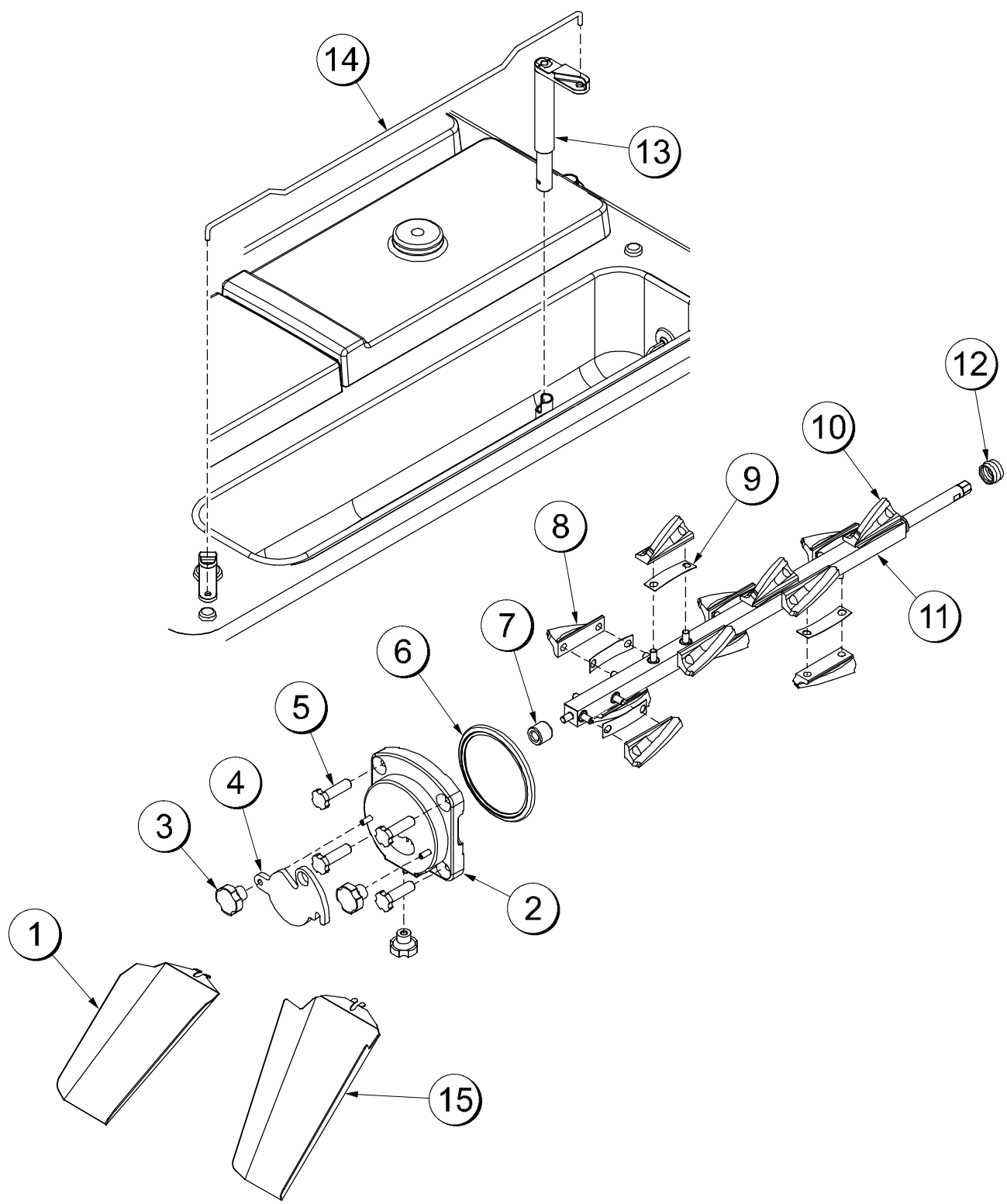


Figure 2

Beater Door & Hopper Assemblies Parts Identification

ITEM	DESCRIPTION	PART NO.
1	CHUTE	063618
2	DOOR ASSEMBLY	X63611-SER
3	NUT-STUD	043666
4	PLATE-DRAW ARM	063614
5	NUT-STUD	034383
6	GASKET-DOOR HT 4IN-DBL	048926
7	BEARING-DOOR-FRONT	064315
8	BLADE-SCRAPER 30 PITCH	063656

ITEM	DESCRIPTION	PART NO.
9	SPRING-DASHER BLADE	063693
10	BLADE-SCRAPER-REAR	063640
11	DASHER A.-CUSTARD	X83275
12	SEAL-DRIVE SHAFT	032560
13	TUBE A.-FEED PLASTIC	X67453
14	ROD-FLOW CONTROL	063593
15	CHUTE-LONG	063619

Accessories

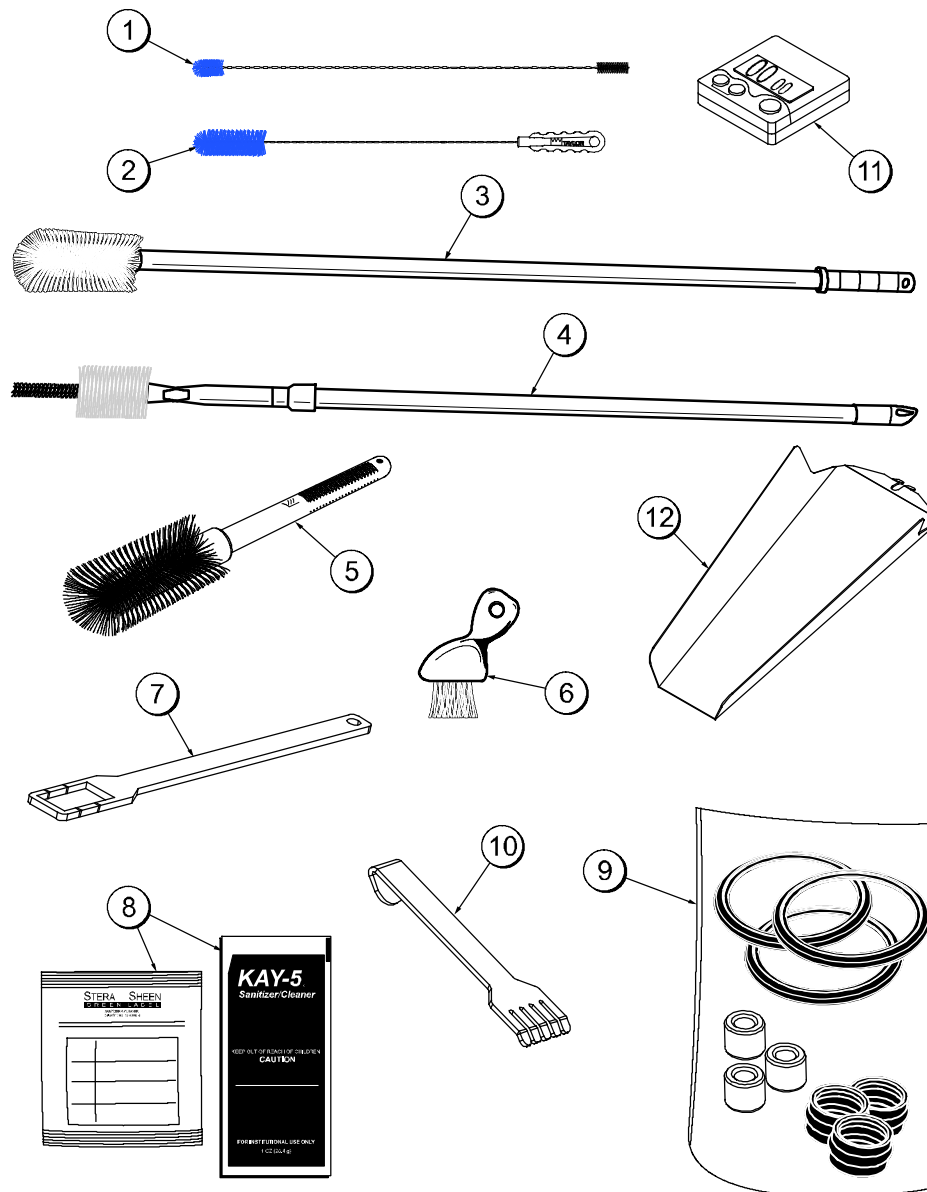


Figure 3

ITEM	DESCRIPTION	PART NO.
1	BRUSH-DBL END-PUMP & FEED	013072
2	BRUSH-DRAW VALVE 1"OD X 2"X17"	013073
3	BRUSH-BARREL	063843
4	BRUSH-REAR BRG	063844
5	BRUSH-MIX PUMP BODY 3"X7"	023316
6	BRUSH-END-DOOR-SPOUT-SS	039719

ITEM	DESCRIPTION	PART NO.
7	TOOL-DASHER SHAFT REMOVE	063623
*8	SANITIZER	SEE NOTE
9	KIT A.-TUNE UP	X64743
10	RAKE-BLADE GUARD	064888
11	TIMER-COUNTDOWN-DIGITAL	065425
12	CHUTE-LONG	063619

*A SAMPLE OF SANITIZER IS SENT WITH THE UNIT. FOR REORDERS, ORDER STERIS SHEEN PART NO. 055492 (100 PACKS) OR KAY-5 PART NO. 041082 (125 PACKS).

Section 5

Important to Operator

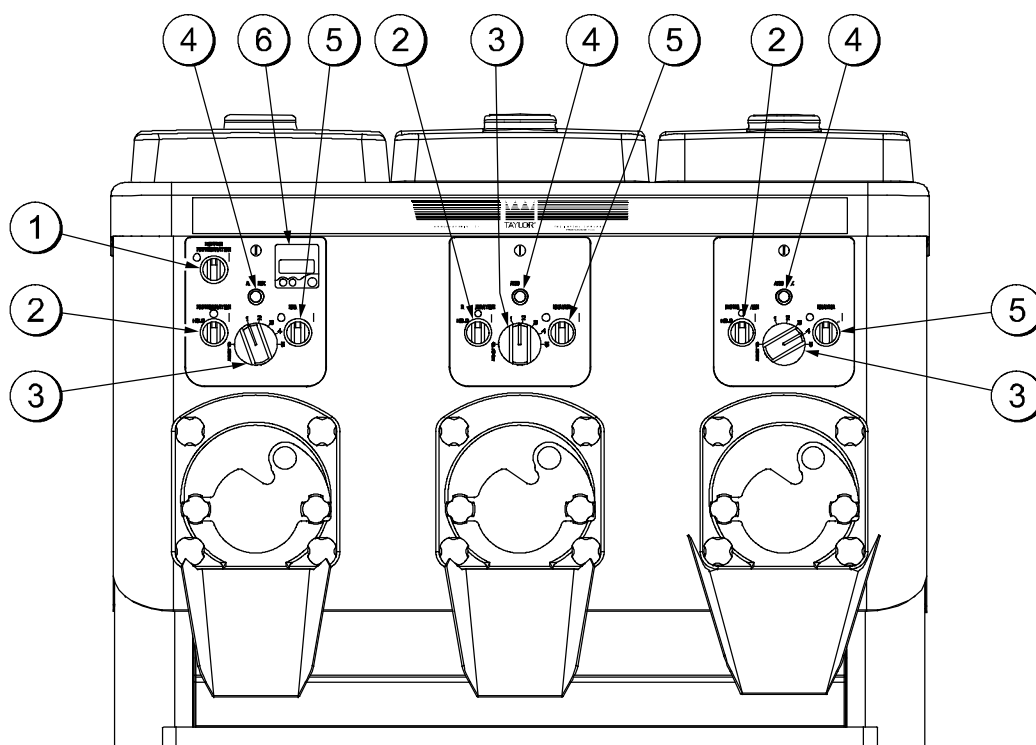


Figure 4

ITEM	DESCRIPTION
1	HOPPER REFRIGERATION SWITCH
2	OPERATIONAL REFRIGERATION SWITCH
3	FLOW ADJUSTMENT KNOB
4	MIX LOW INDICATOR LIGHT
5	BEATER MOTOR SWITCH
6	DIGITAL COUNTDOWN TIMER

Hopper Refrigeration Switch

The hopper refrigeration switch activates the hopper refrigeration.

Operational Refrigeration Switch

Place the operational refrigeration switch in the "ON" position to allow the product to dispense. During "No Sale" periods, place the switch in the "HOLD" position to keep the product refrigerated in the freezing cylinder.

Flow Adjustment Knob

The flow adjustment knob adjusts the flow of product into the freezing cylinders.

Note: Whenever an adjustment is made, first turn the adjustment knob all the way to "5" and then back to the desired number.

Mix Low Indicator Light

When the mix low indicator light is illuminated, the mix hopper has a low supply of mix and should be refilled as soon as possible.

Beater Motor Switch

The beater motor switch activates the beater motor.

Digital Countdown Timer

The digital countdown timer is used to keep track of the time needed to control product quality.

Section 6

Operating Procedures

This unit is a three flavor custard freezer. It has three 30 quart (28 liter) hoppers. The mix flows by gravity through an adjustable flow control into the freezing cylinders. This unit has been designed to produce a rich tasting custard product that can be drawn off and served from a holding cabinet. The overrun is typically 20-25% and varies depending on the mix formulation and the finished product temperature (18 to 21°F [-7.8 to -6.1°C]).

We begin our instructions at the point where we find the parts disassembled and laid out to air dry from the previous brush cleaning.

The following procedures will show you how to assemble the parts into the freezer, sanitize them, and prime the freezer with fresh mix.

If you are disassembling the unit for the first time or need information to get to this starting point in our instructions, turn to “Disassembly” on page 32 and start there.

Assembly



MAKE SURE THE BEATER MOTOR SWITCH IS IN THE OFF POSITION. Failure to follow this instruction may cause severe personal injury to fingers or hands from hazardous moving parts.

Beater Shaft, Scraper Blade, and Feed Tube Assembly

Step 1

Verify that the refrigeration switch and the beater motor switch are both in the OFF position.

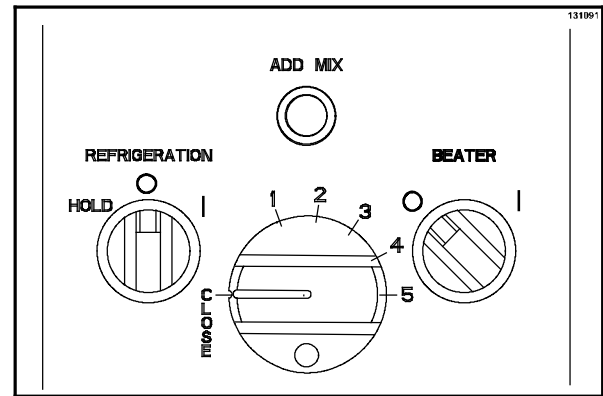


Figure 5

Step 2

Place a bead of lubricant around the groove of the beater shaft.

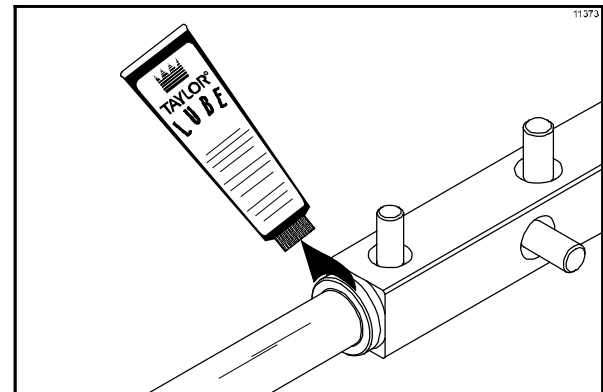


Figure 6

Note: When lubricating parts, use an approved food grade lubricant (example: Taylor Lube).

Step 3

Slide the seal over the shaft and groove until it snaps into place.

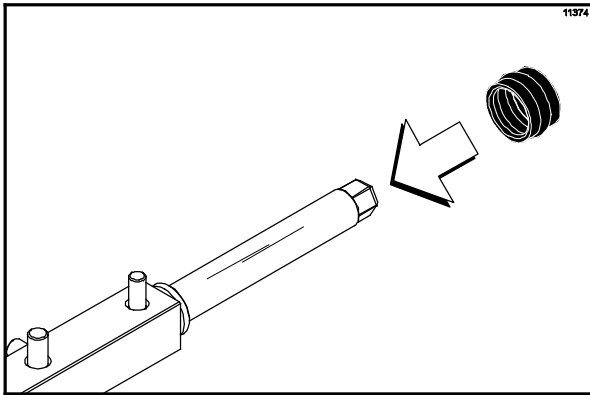


Figure 7

Step 4

Fill the inside portion of the seal with 1/4" (6 mm) more lubricant and lubricate the flat side of the seal that fits onto the rear shell bearing.

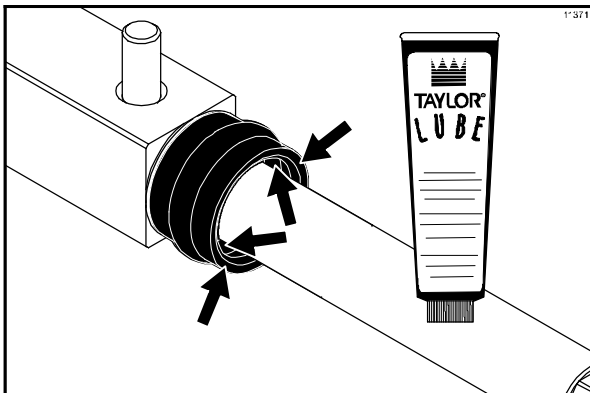


Figure 8

Step 5

Lubricate the beater shaft. **IMPORTANT! DO NOT lubricate the hex end of the beater shaft.**

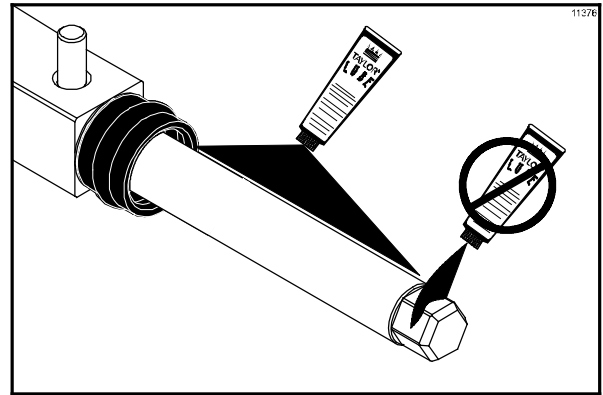


Figure 9

Step 6

Inspect each scraper blade for any nicks or signs of excessive wear. If any nicks or signs of wear are present, replace the blade.

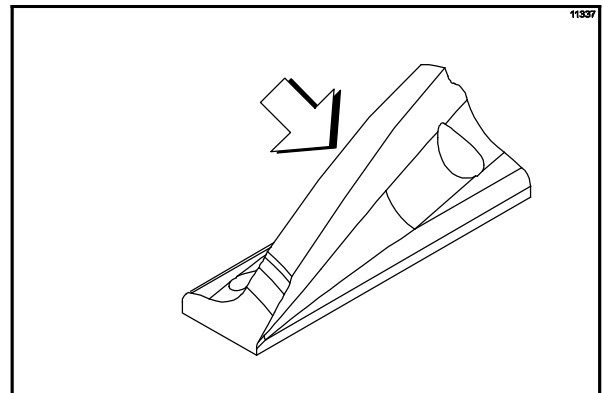


Figure 10

Step 7

Starting at the hex end of the beater shaft, place a metal leaf spring (arched upward) over the two pins closest to that end. Install the long scraper blade on top of the leaf spring. (**Note:** There is only one long scraper blade per beater.)

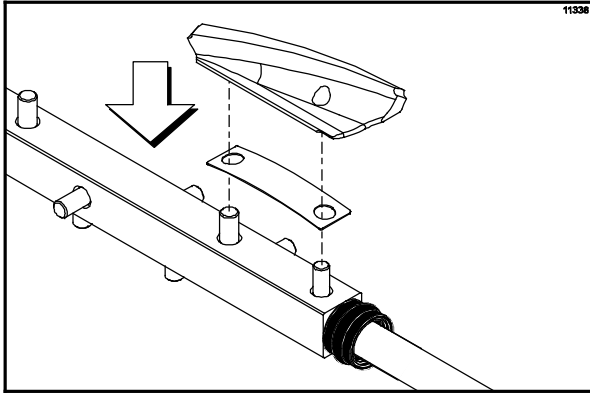


Figure 11

Step 8

Place a leaf spring and a short scraper blade on the next set of pins.

Step 9

Hold the two leaf springs and scraper blades in place. Slide the beater shaft into the freezing cylinder until the scraper blades are held in place by the freezing cylinder. Rotate the beater shaft counter-clockwise until the next set of pins is facing up.

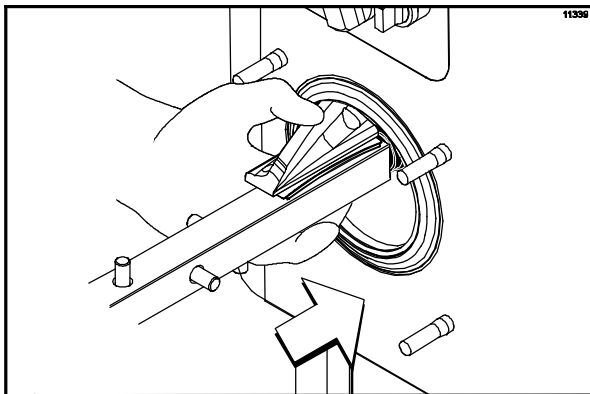


Figure 12

Step 10

Place a leaf spring and a short scraper blade on the next set of pins. Slide the beater shaft into the freezing cylinder until the blade is held in place by the freezing cylinder. Rotate the beater shaft counter-clockwise until the next set of pins is facing up.

Step 11

Continue adding leaf springs and short scraper blades to the beater shaft until all 12 blades are installed.

Step 12

Slide the beater shaft into the freezing cylinder, rotating the beater shaft slightly counter-clockwise. Engage the hex end firmly into the drive coupling at the back of the unit. The square portion of the beater shaft assembly should fit completely inside the freezing cylinder. The bearing support pin will extend beyond the freezing cylinder.

Note: It may be helpful to use the beater removal tool to turn the beater while installing the beater.

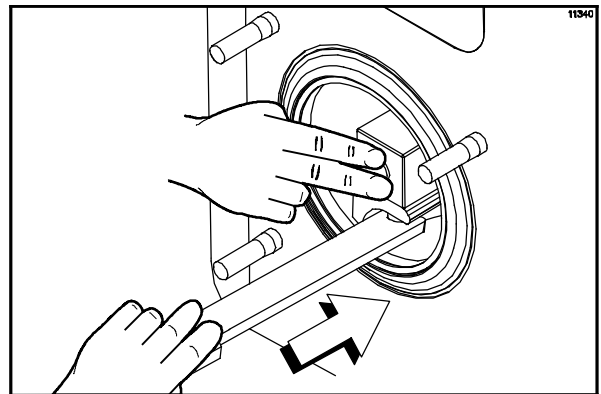


Figure 13

Note: The drip pan is a convenient place to store the beater removal tool.

Step 13

Install the front bearing on the bearing support pin.

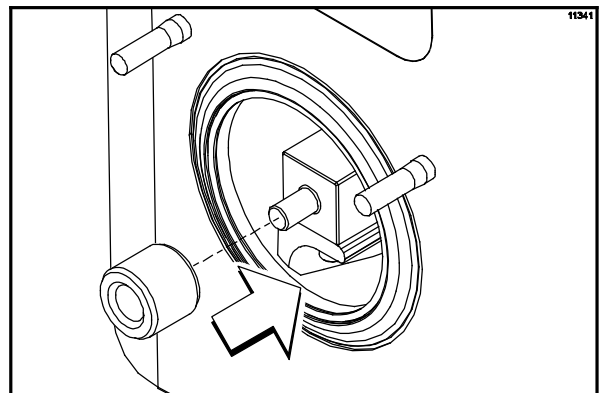


Figure 14

Step 14

Repeat the assembly instructions on the remaining freezing cylinders.

Door Assembly

Step 1

With the door in a horizontal position, install the draw arm plate. Install all three short stud nuts and leave them loose.

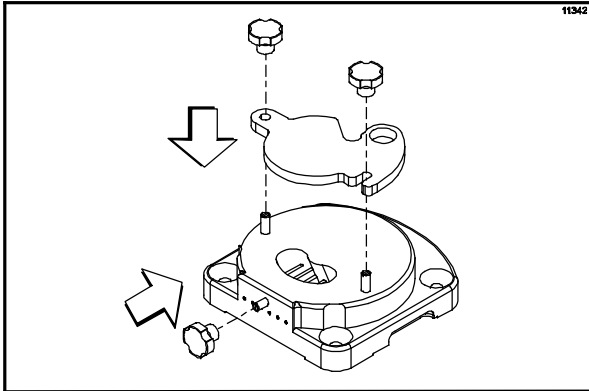


Figure 15

Step 2

Turn the door over and install the door gasket.

Note: DO NOT lubricate the gasket, as this will cause the gasket to leak over time.

Step 3

Press all around the gasket to ensure a flush, secure fit in the groove. The gasket may have to be stretched slightly to get it into the proper position.

To ensure that the gasket is correctly positioned, verify that the middle section of the gasket is arched upward. If the middle section of the gasket is concave, or extends into the middle of the seal, turn the gasket over, as it is upside down.

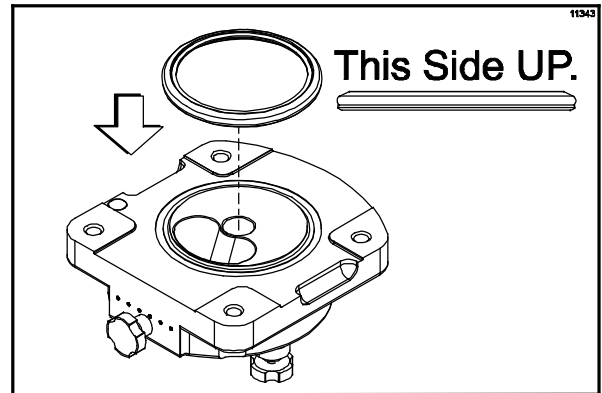


Figure 16

Step 4

Seat the door on the freezer studs. To ensure the door gasket doesn't fall off, hold the door flush with the freezing cylinder with one hand while installing the stud nuts with the other hand. Hand-tighten the stud nuts equally in a criss-cross pattern to insure the door is snug.

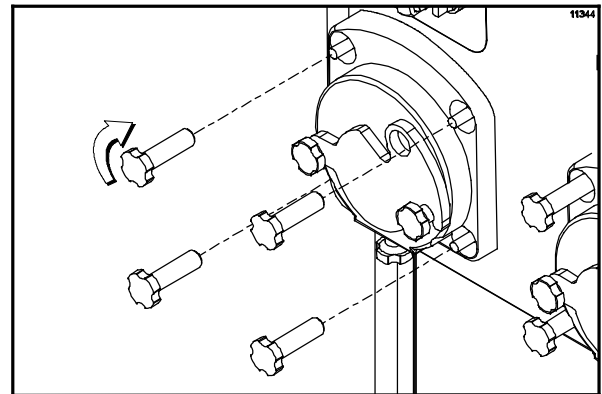


Figure 17

Step 5

Repeat the assembly instructions on the remaining freezing cylinders.

Sanitizing

Step 1

Using **lukewarm** water, prepare an approved 100 PPM sanitizing solution (examples: 5 gal. [19 liters] of Kay-5® or 4 gal. [15 liters] of Stera-Sheen®). **USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.**

Step 2

Place the feed tube and the flow control rod flat on the bottom of the hopper.

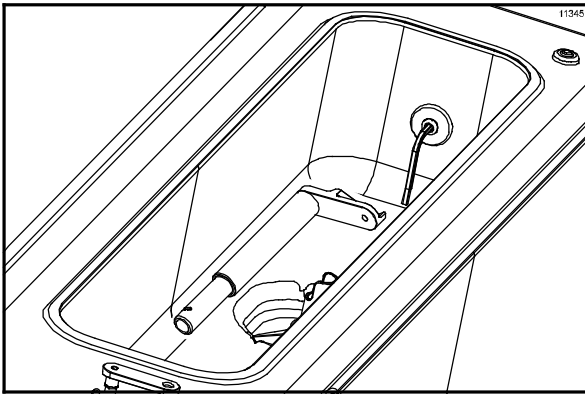


Figure 18

Step 3

Place the product chutes in the hopper.

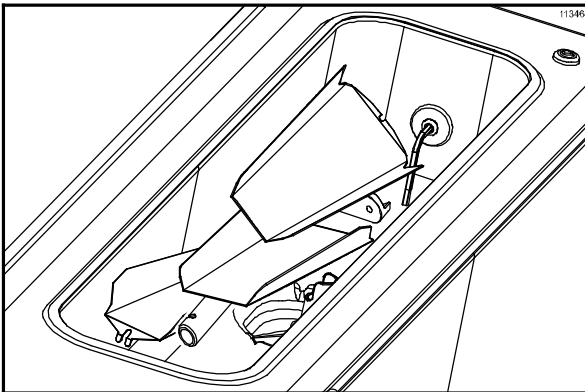


Figure 19

Step 4

Make sure the draw arm plate is closed and the short door stud nuts are snug.

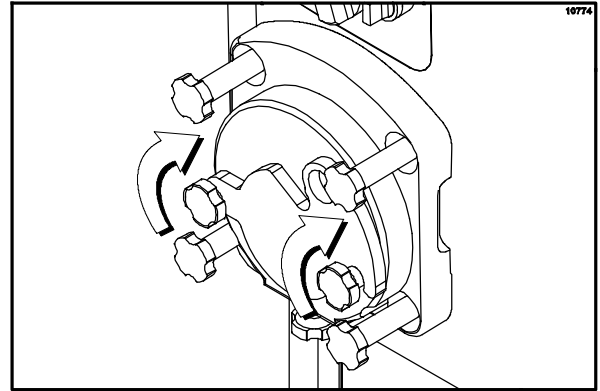


Figure 20

Step 5

Attach the splash guards to the door studs.

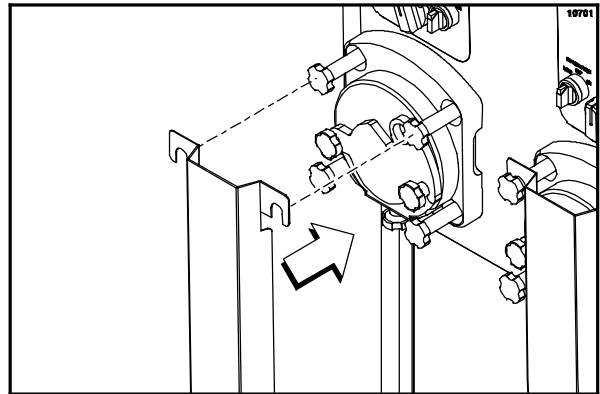


Figure 21

Step 6

Make sure the refrigeration switch and the hopper refrigeration switch are in the OFF position.

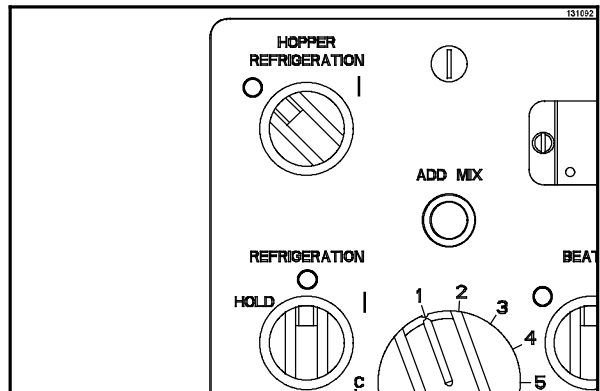


Figure 22

IMPORTANT! Refrigeration should NOT be on when water is present in the freezing cylinder or hopper.

Step 7

Place an empty pail under the draw arm plate (if the unit is not equipped with a trough).

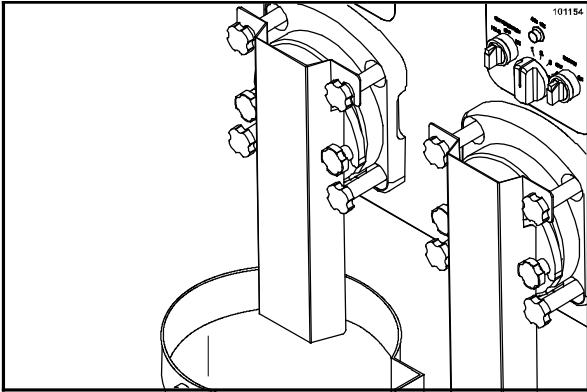


Figure 23

Step 8

Pour the sanitizing solution into the hopper.

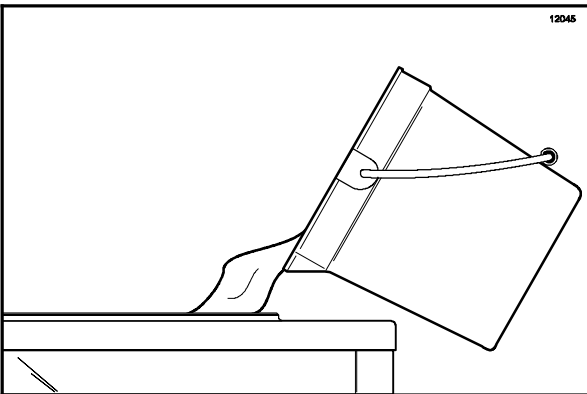


Figure 24

Step 9

Brush clean the mix hopper.

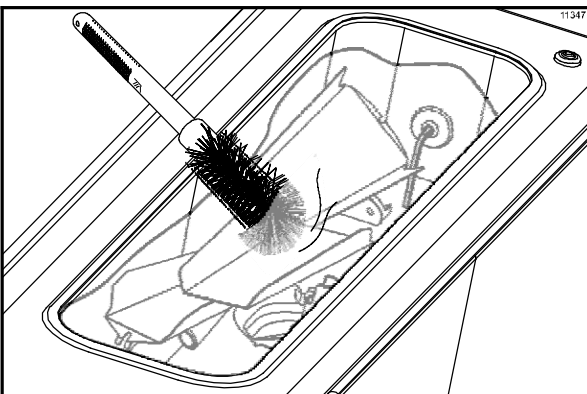


Figure 25

Step 10

Place the beater switch in the ON position and set the timer for five minutes.

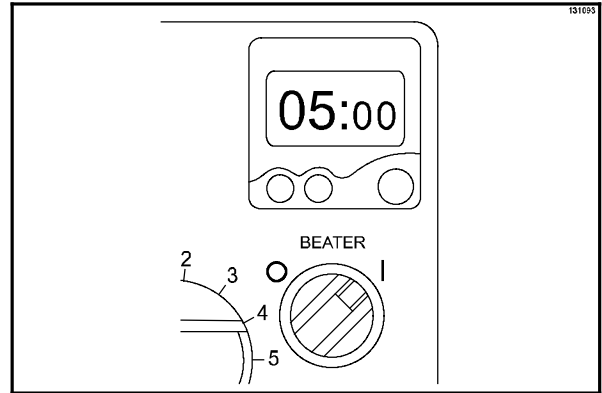


Figure 26

Step 11

After five minutes have elapsed, open the draw arm plate and drain the sanitizer into the empty pail.

Note: If your unit is equipped with a trough, drain the sanitizer into the trough.

Step 12

Place the beater switch in the OFF position and the flow adjustment knob in the CLOSE position.

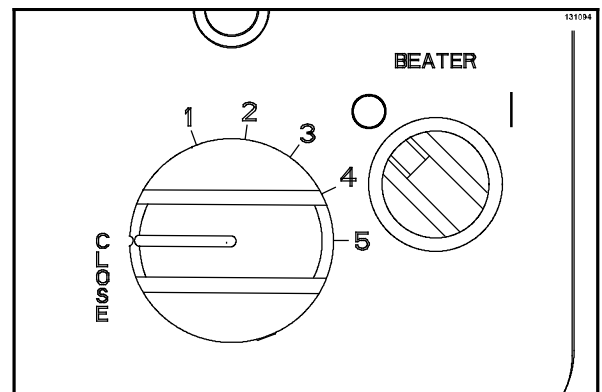


Figure 27



IMPORTANT! Your hands must be clean and sanitized before proceeding with the next steps.

Step 13

Remove the splash guards from the doors.

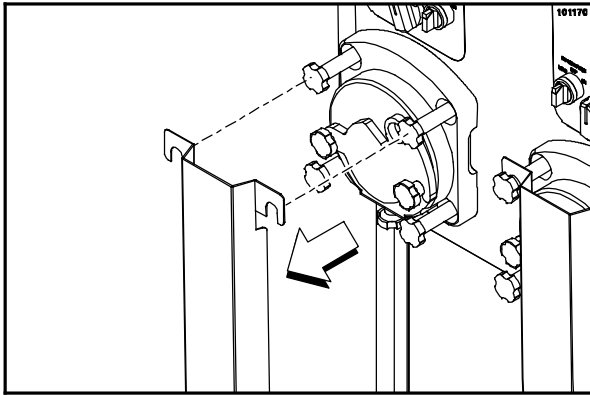


Figure 28

Step 14

Remove the chute from the hopper.

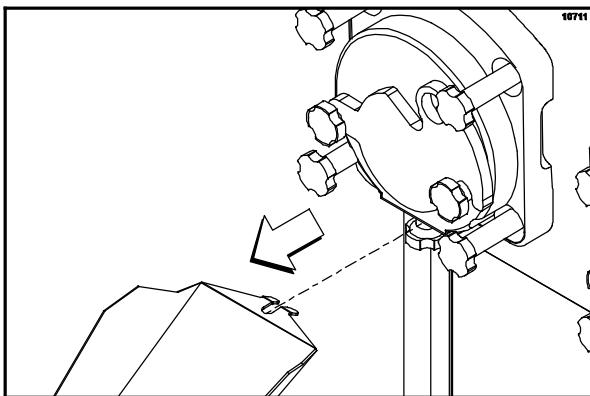


Figure 29

Step 15

Install the feed tube assembly into the mix inlet hole located at the bottom of the hopper. Make sure the feed tube is completely seated in the mix inlet hole.

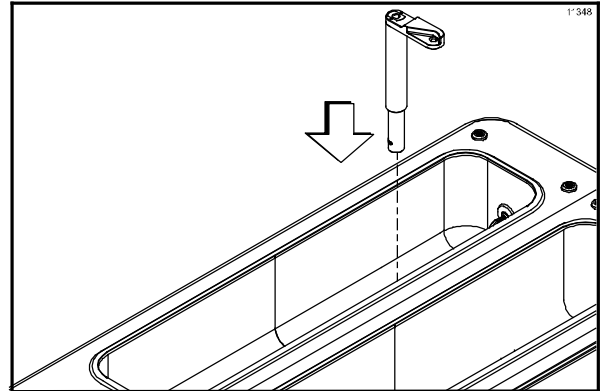


Figure 30

Step 16

Place one end of the flow control rod into the hole located on the feed tube. Place the other end of the rod into the hole on the front flow control lever.

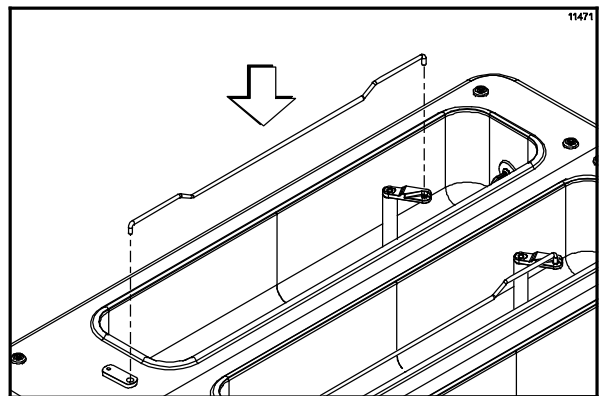


Figure 31

Step 17

Discard the sanitizer.

Repeat these steps for the remaining freezing cylinders.

Priming



KEEP FINGERS OUT OF FILL AND DISCHARGE OPENINGS! Failure to do so may result in severe personal injury, contaminated product, or component damage.

Step 1

IMPORTANT: Verify that the flow adjustment knob is in the CLOSE position and the beater motor switch is in the OFF position. The draw arm plate must be closed.

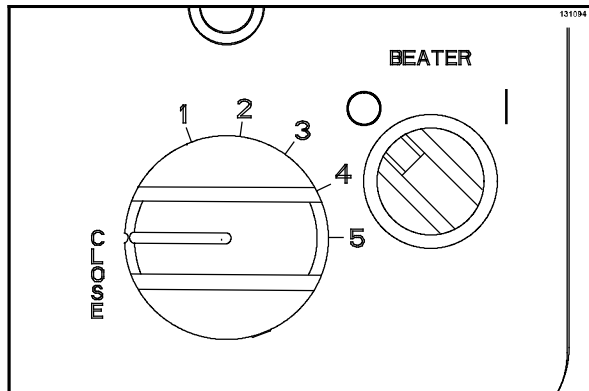


Figure 32

Note: The flow adjustment knob is used to adjust the flow of mix. Turning the adjustment knob clockwise increases the flow. A counter-clockwise turn decreases the flow. Adjust the mix flow as needed to maintain proper product consistency.

Step 2

On the front half of the hoppers, install the hopper covers that have the raised lip.

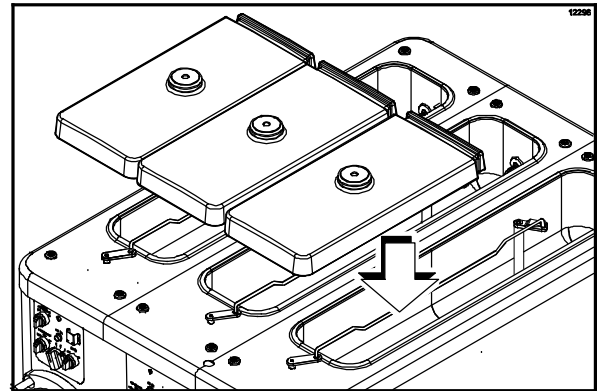


Figure 33

Step 3

Place the hopper refrigeration knob in the ON position and set the timer for 30 minutes.

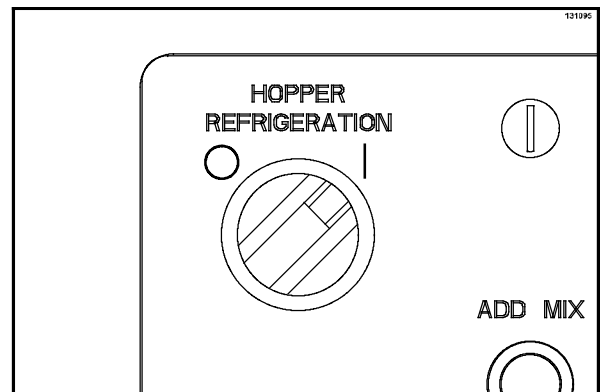


Figure 34

Step 4

After 30 minutes have expired, fill the hopper with fresh mix.

Note: Use only **FRESH MIX** when priming the freezer.

Step 5

On the back half of the hoppers, install the hopper covers that have the concave lip. For maximum capacity, the hopper should be full.

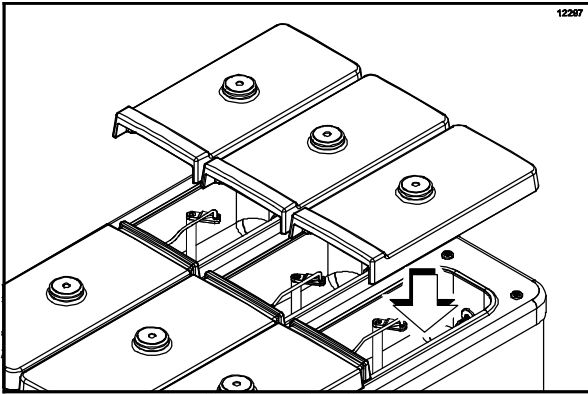


Figure 35

Step 6

Place the beater switch and the refrigeration switch in the ON position. Set the timer for one minute.

Note: The refrigeration switch will not activate unless the beater switch is on.

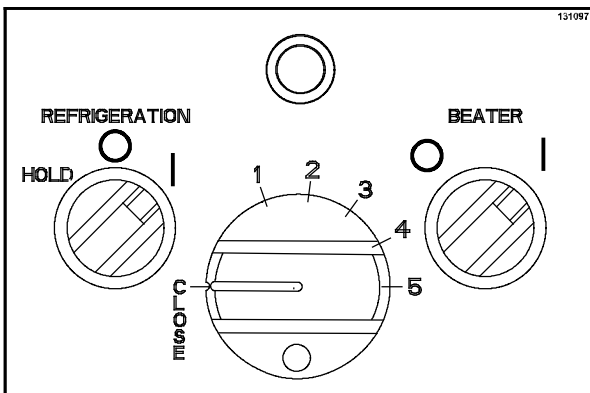


Figure 36

Step 7

After one minute has expired, turn the flow adjustment knob to "1" and set the timer for three minutes.

Note: Whenever an adjustment is made, first turn the adjustment knob all the way to "5" and then back to the desired number.

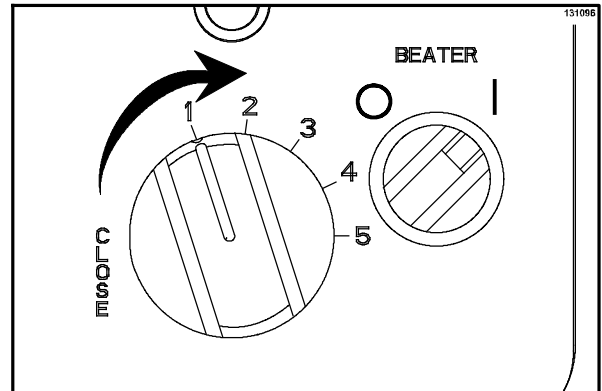


Figure 37

Step 8

After three minutes have expired, open the draw arm plate. If the custard is too soft, close the draw arm plate and wait one minute. Repeat until the custard looks servable.

Note: The first couple inches of custard will force out any remaining sanitizing solution and should be discarded.

Step 9

Close the draw arm plate. **Using sanitized hands,** install a sanitized product chute.

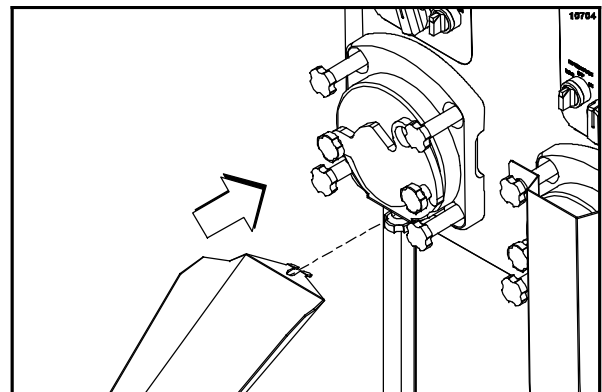


Figure 38

Step 10

Open the draw arm plate.

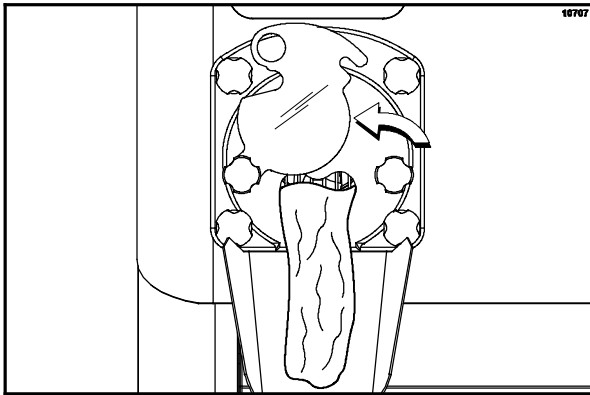


Figure 39

Note: A chattering noise indicates that not enough mix is entering the freezing cylinder. It may be necessary to increase the flow of mix into the freezing cylinder. Increase the flow control knob only 1/2 a number at a time. It takes 3 - 5 minutes to see the results of the adjustment. (Whenever an adjustment is made, first turn the adjustment knob all the way to “5” and then back to the desired number.)

Step 11

Continue to run the frozen custard into the holding cabinet until the desired amount is obtained. Adjust the mix flow as needed to maintain proper product consistency. For maximum capacity, make sure the hopper is full and the flow is adjusted as high as possible within the acceptable product temperature range.

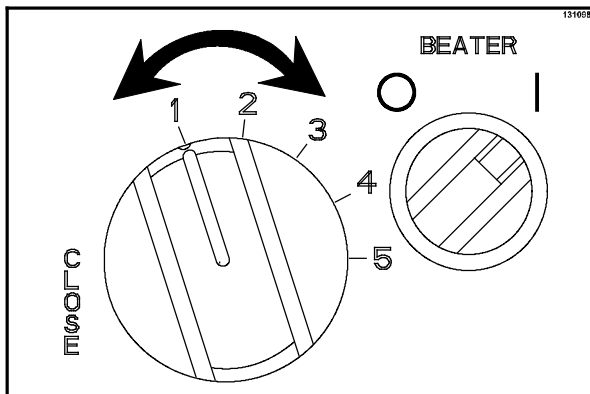


Figure 40

Step 12

When the desired amount is obtained and more custard will be made later, follow the “**Hold Cycle During Operation**” instructions starting on page 23.

Step 13

Repeat these steps for the remaining freezing cylinders.

Hold Cycle During Operation

Step 1

Place the flow adjustment knob in the CLOSE position. Set the timer for one minute.

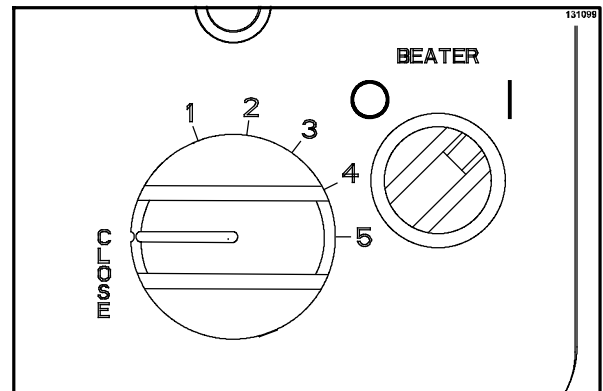


Figure 41

Step 2

After one minute has expired, place the refrigeration switch in the HOLD position for custard.

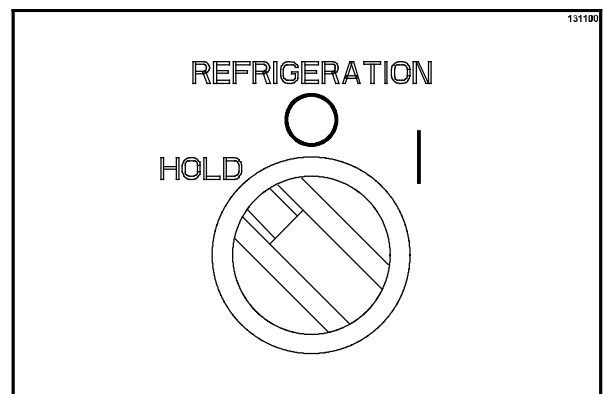


Figure 42

Step 3

When the frozen custard stops flowing, (takes approximately two minutes) place the beater motor switch in the OFF position.

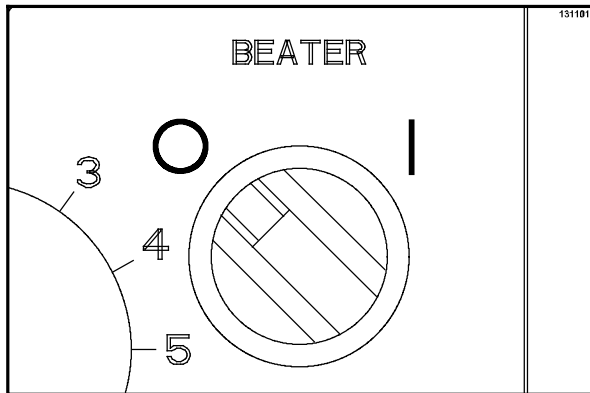


Figure 43

Step 4

Use the rake to remove as much custard from the product door as possible.

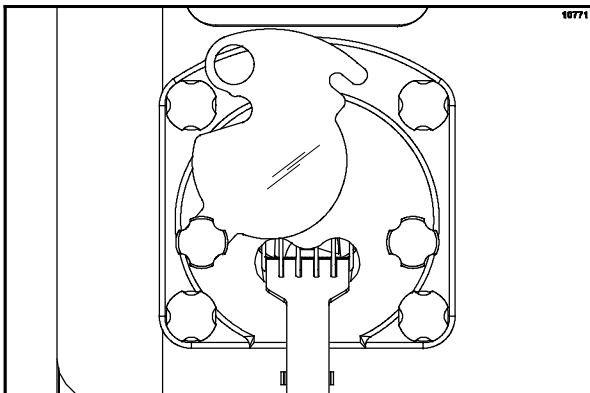


Figure 44

Step 5

Close the draw arm plate. Make sure the left stud nut is snug and then the right stud nut.

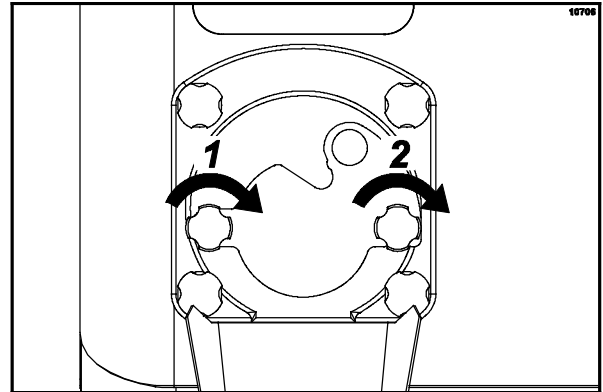


Figure 45

Step 6

Remove the custard chute and take it to the sink for cleaning and sanitizing.

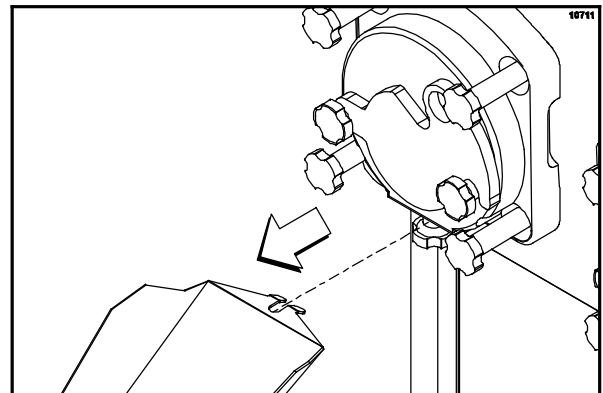


Figure 46

Step 7

Close the dipping cabinet cover.

Step 8

Prepare a squeeze bottle of approved 100 PPM sanitizing solution. Squeeze the sanitizing solution around the draw arm plate and stud nuts to remove any left-over product. If necessary, brush clean the area with the door spout brush and rinse with the sanitizing solution.

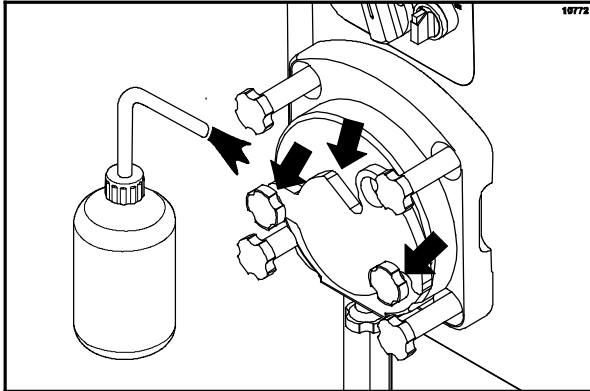


Figure 47

Step 9

Repeat these steps for the remaining freezing cylinders.

Resuming Production During Operation

Step 1

Place the beater switch in the ON position.

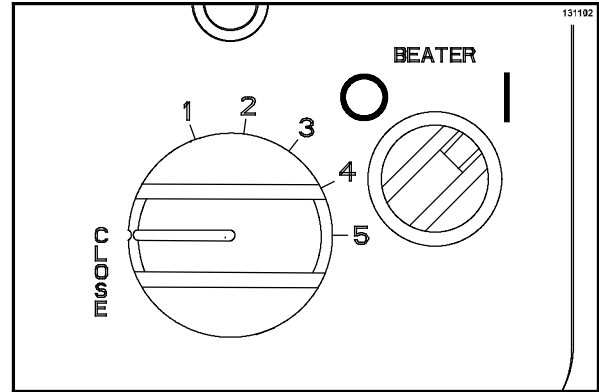


Figure 48

Step 2

Place the refrigeration switch in the ON position.

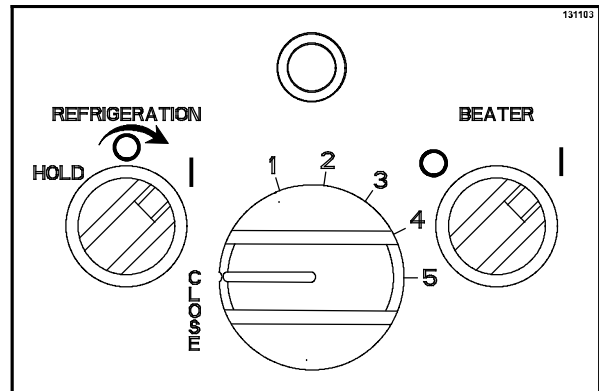


Figure 49

Step 3

Set the timer for one minute. After the minute expires, open the flow control assembly to “1” and set the timer for three minutes.

Note: Whenever an adjustment is made, first turn the adjustment knob all the way to “5” and then back to the desired number.

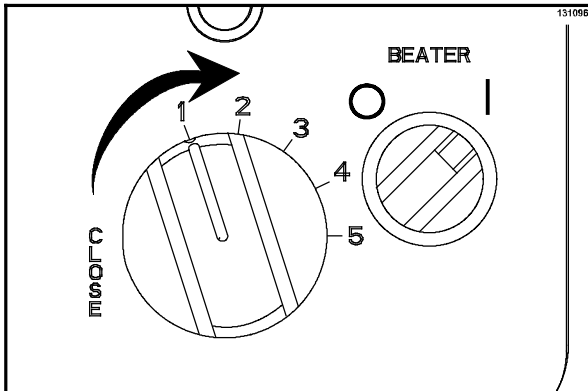


Figure 50

Step 4

After three minutes have expired, open the draw arm plate. If the custard is too soft, close the draw arm plate and wait one minute. Repeat as necessary.

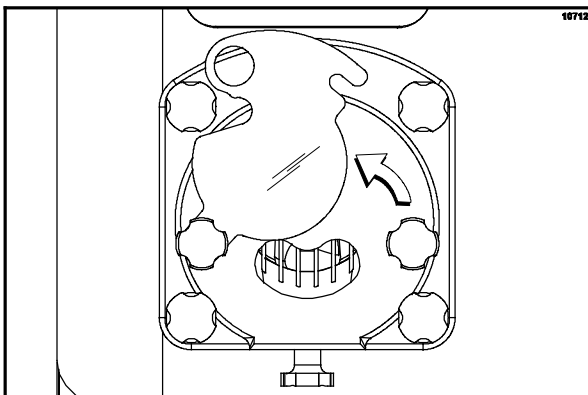


Figure 51

Step 5

When custard appears, adjust the flow adjustment knob to gain the desired custard texture. Turn the flow adjustment knob clockwise if the product is too firm and counter-clockwise if the product is too soft.

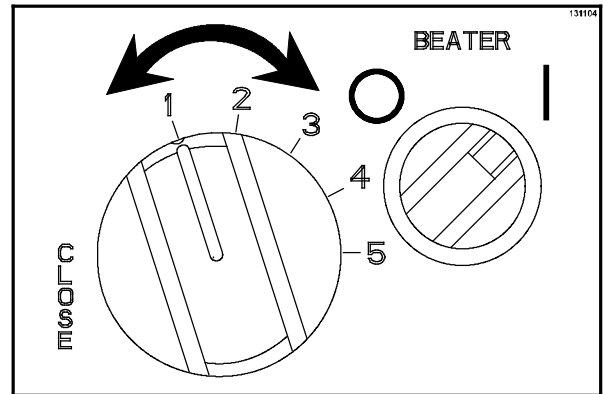


Figure 52

Step 6

When the product looks servable, close the draw arm plate. **Using sanitized hands**, install a sanitized custard chute.

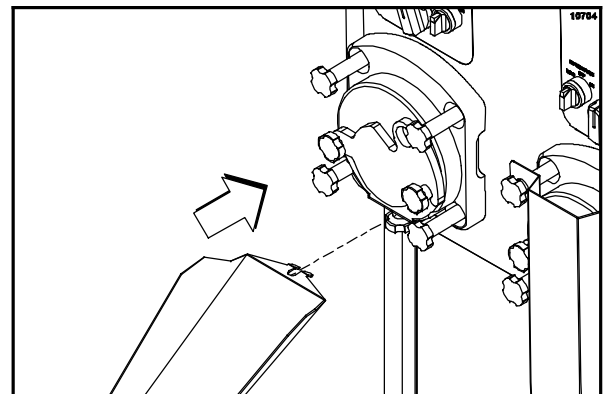


Figure 53

Step 7

Open the draw arm plate. Continue to run the frozen custard into the holding cabinet until the desired amount is obtained. Adjust the mix flow as needed to maintain proper product consistency. When the desired amount is obtained and more custard will be made later, follow the “**Hold Cycle During Operation**” instructions starting on page 23.

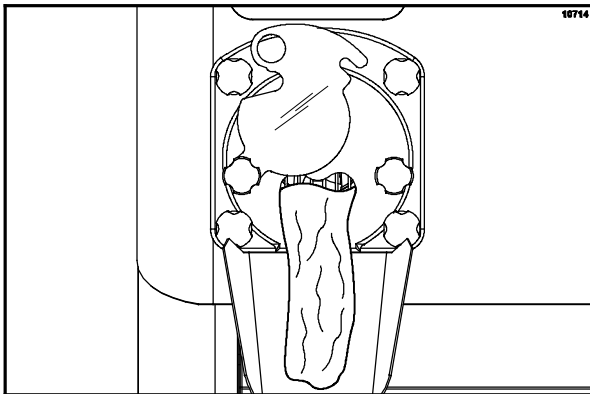


Figure 54

Step 2

Set the timer for 20 minutes. This allows the freezing cylinder enough time to warm before removing the remaining custard.

Step 3

Place the beater switch in the ON position.

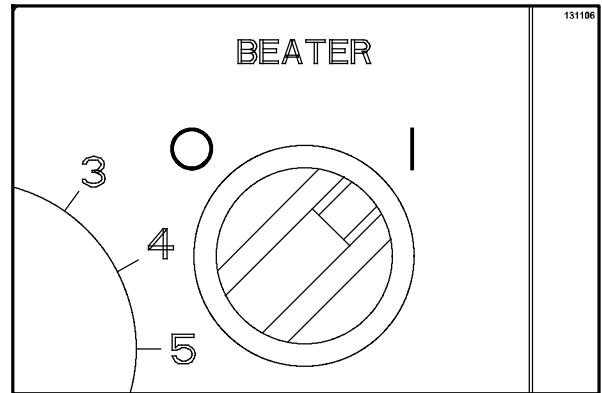


Figure 56

Preparing for Shutdown

Perform the following procedures to remove the remaining custard in the freezing cylinder when there is mix in the hopper.

Step 1

Place the refrigeration switch in the OFF position.

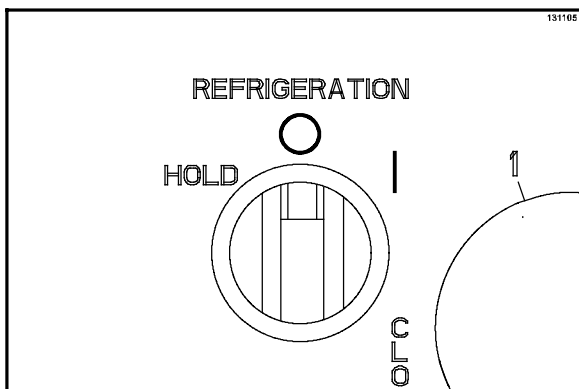


Figure 55

Step 4

Open the dipping cabinet cover. Close the draw arm plate. **Using sanitized hands**, install a sanitized custard chute.

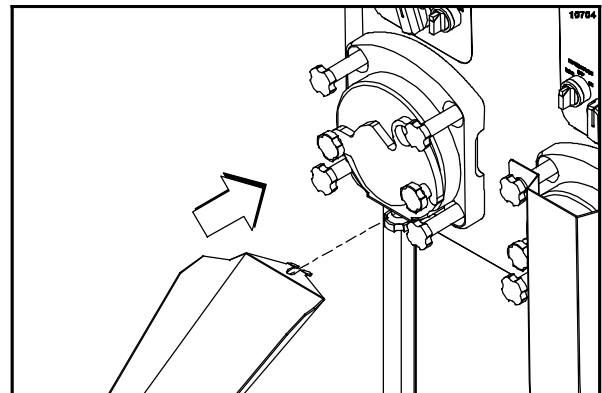


Figure 57

Step 5

Open the draw arm plate and turn the flow adjustment knob to "5". Run the remaining mix through the freezing cylinder and properly dispose of the mix.

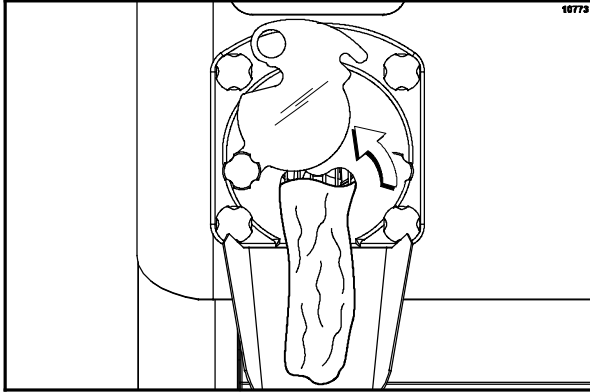


Figure 58

Note: If local health codes permit the use of rerun, place a sanitized, NSF approved rerun container beneath the opening of the front plate and run the remaining mix into the container. See page 36 for instructions regarding the proper use of rerun.

Step 6

After all the custard has drained from the hopper, remove the hopper cover, the flow control rod and the feed tube.

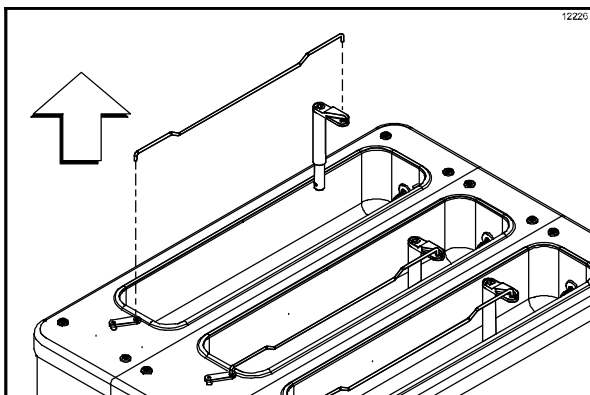


Figure 59

Step 7

Repeat these steps for the remaining freezing cylinders.

Rinsing

Step 1

Place the hopper refrigeration switch in the OFF position.

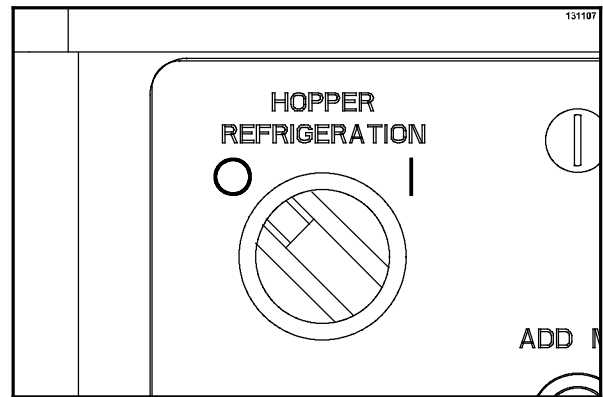


Figure 60

Step 2

Make sure the refrigeration switch is in the OFF position.

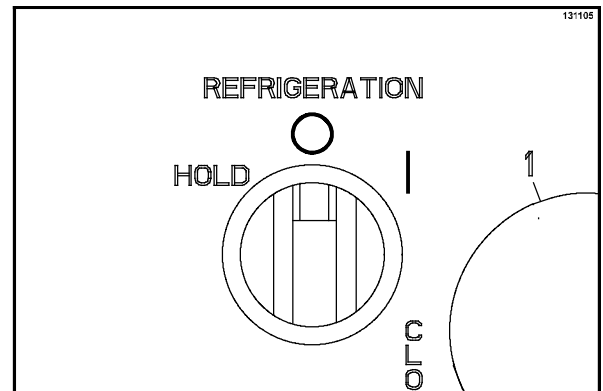


Figure 61

Step 3

Close the draw arm plate and remove the product chute.

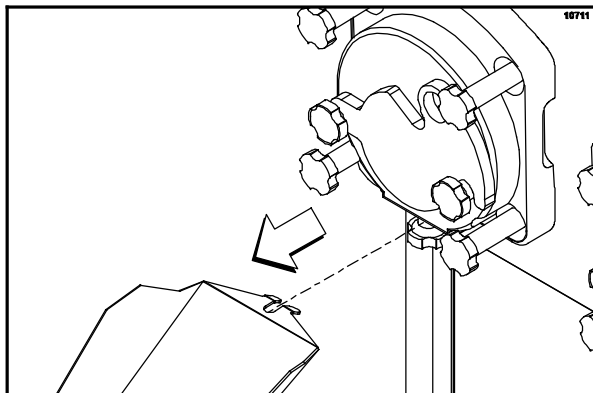


Figure 62

Step 4

Install the splash guard.

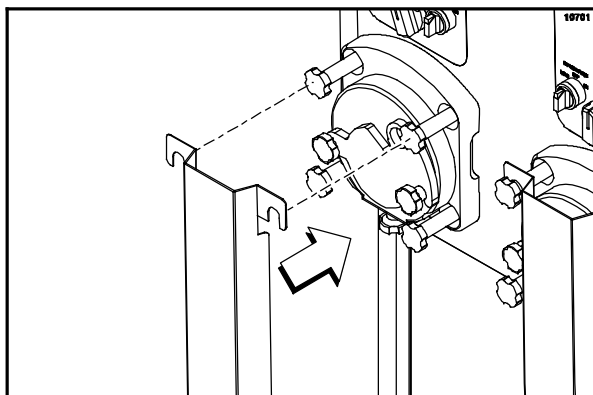


Figure 63

Step 5

With a pail beneath the draw arm plate, pour four gallons (15 liters) of **cool**, clean water into the hopper. (**Note:** Use the faucet if the unit is equipped with one.)

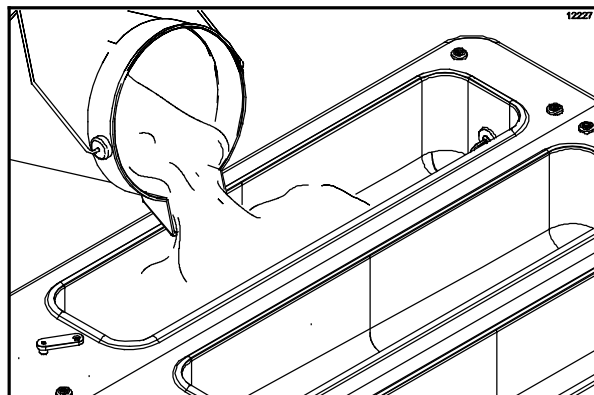


Figure 64

Step 6

With the brushes provided, scrub the mix hopper.

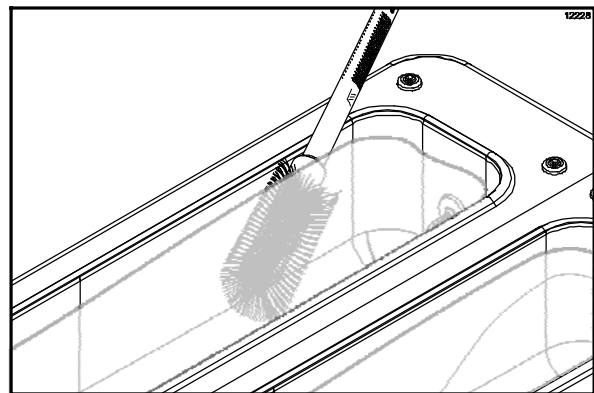


Figure 65

Step 7

Place the beater switch in the ON position.

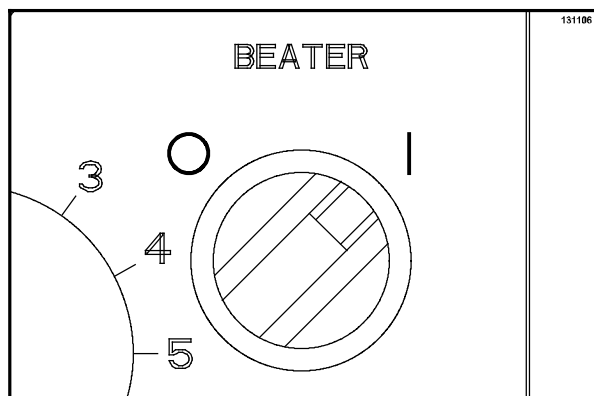


Figure 66

Step 8

Open the draw plate and drain the rinse water from the freezing cylinder.

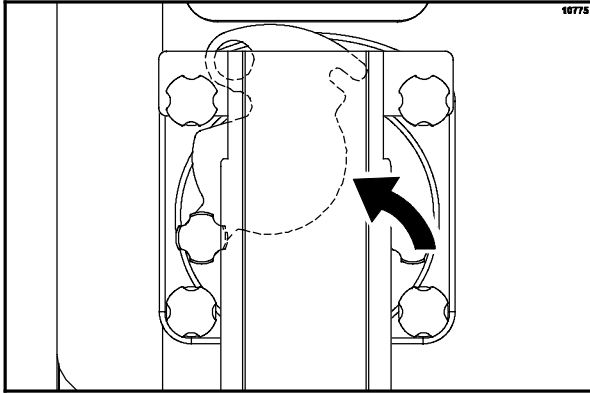


Figure 67

Step 9

Repeat this procedure until all mix residue is gone and the water is clear.

Step 10

Place the beater switch in the OFF position.

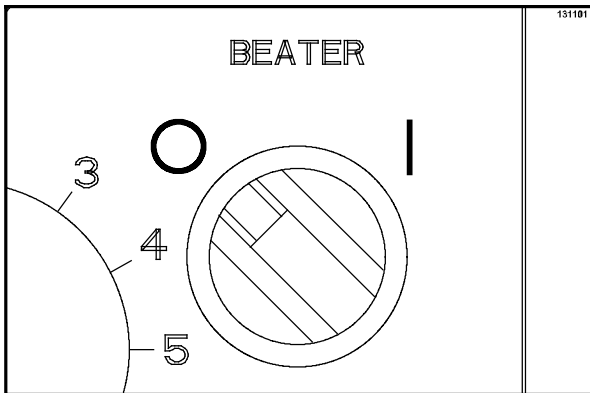


Figure 68

Step 11

Repeat these steps for the remaining freezing cylinders.

Cleaning



IMPORTANT: Failure to follow these cleaning procedures may result in bacterial contamination of the frozen custard product.

Step 1

Make sure the refrigeration switch is in the OFF position.

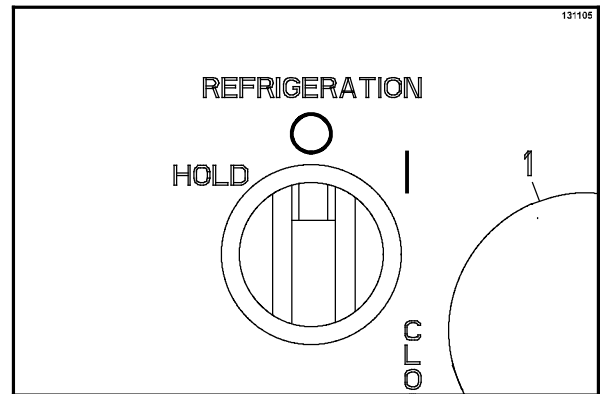


Figure 69

Step 2

Close the draw arm plate.

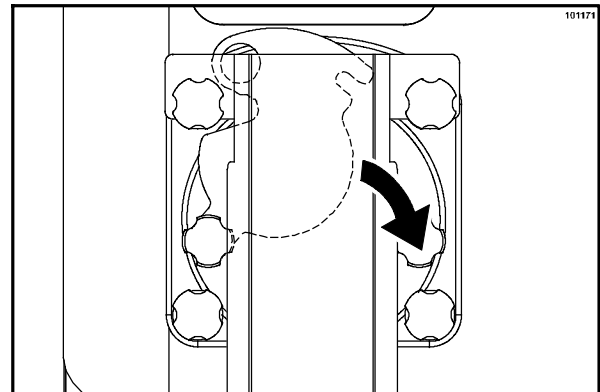


Figure 70

Step 3

Using **lukewarm** water, prepare an approved 100 PPM sanitizing solution (examples: 5 gal. [19 liters] of Kay-5® or 4 gal. [15 liters] of Stera-Sheen®). **USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.**

Step 4

Pour the cleaning solution into the hopper. Brush clean the sides and bottom of the hopper.

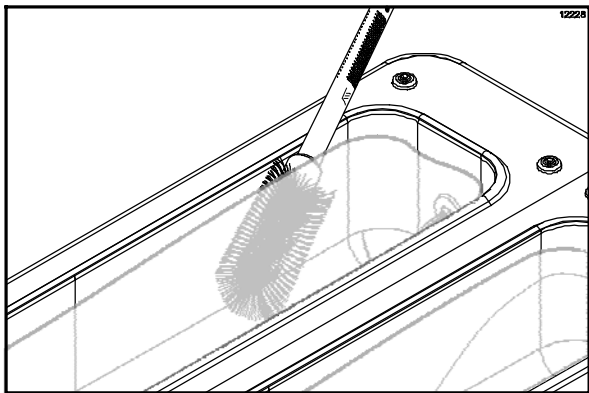


Figure 71

Step 5

Place the beater switch in the ON position. Set the timer for five minutes.

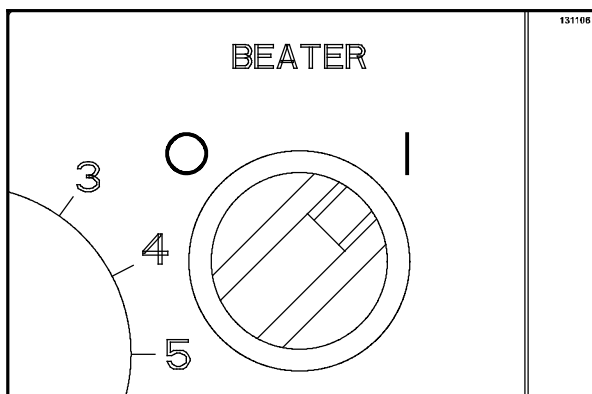


Figure 72

Step 6

After five minutes has elapsed, open the draw arm plate and drain all the solution from the freezing cylinder.

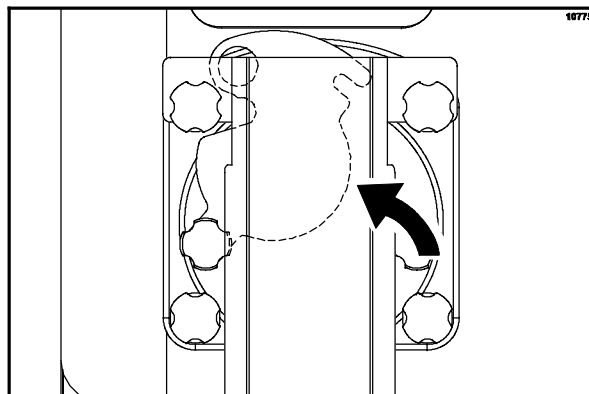


Figure 73

Step 7

Place the beater switch in the OFF position.

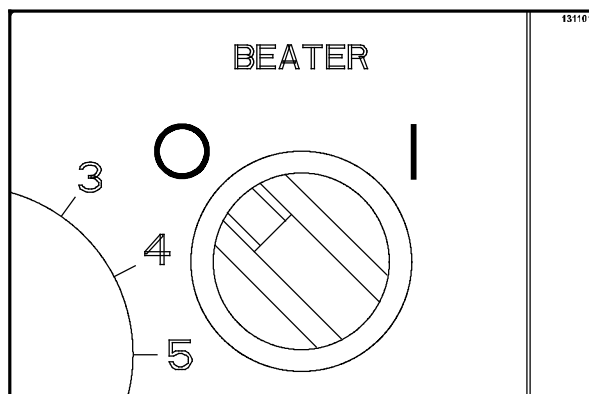


Figure 74

Step 8

Repeat these steps for each freezing cylinder.

Disassembly

Step 1

Remove the door assembly.

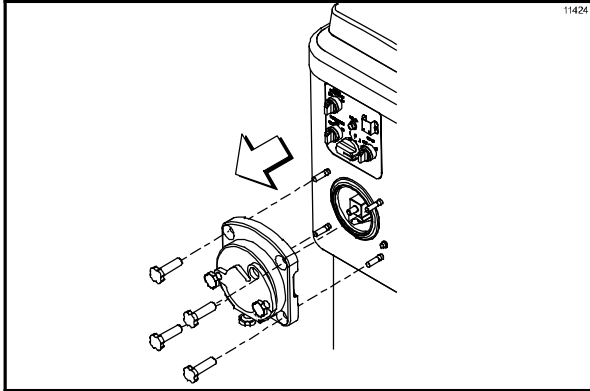


Figure 75

Step 2

Disassemble the door assembly. Remove the gasket from the product door.

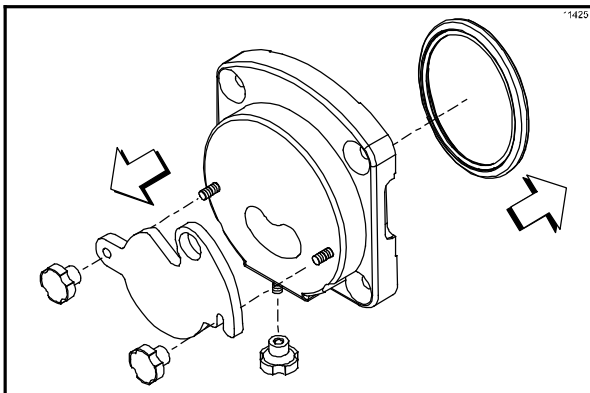


Figure 76

Step 3

Remove the front bearing from the door or beater shaft.

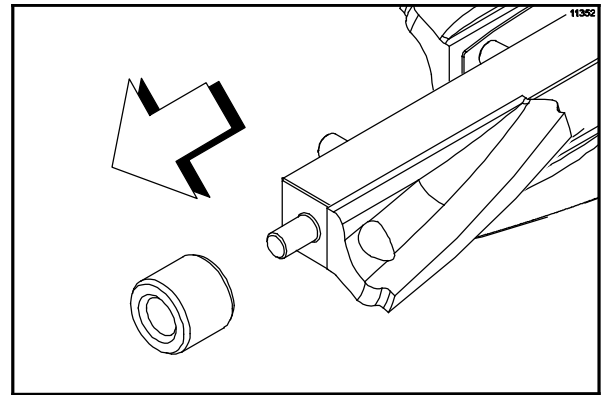


Figure 77

Step 4

While removing the beater shaft, take each blade and leaf spring off and place them in a container for cleaning.

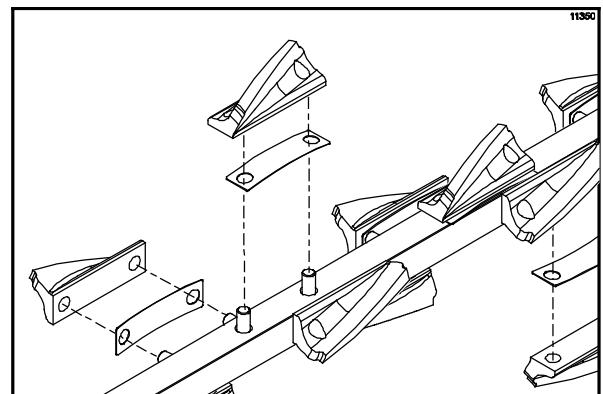


Figure 78

Step 5

Remove the rear seal from the beater shaft. Use a single-use towel to remove the lubricant from the seal before taking it to the sink for cleaning.

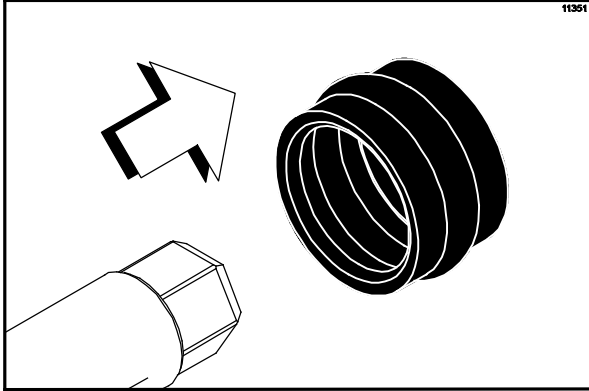


Figure 79

Note: If the rear seal remains in the drive coupling at the back of the unit instead of coming out with the beater shaft, perform the following:

- Reinstall three blades and leaf springs on the beater shaft.
- Slide the beater shaft back into the freezing cylinder until the hex end is firmly engaged in the drive coupling.
- Remove the beater shaft by pulling it straight out.
- Repeat as necessary until the rear seal is removed.

Step 6

Remove the hopper covers, the feed tube and the flow control rod.

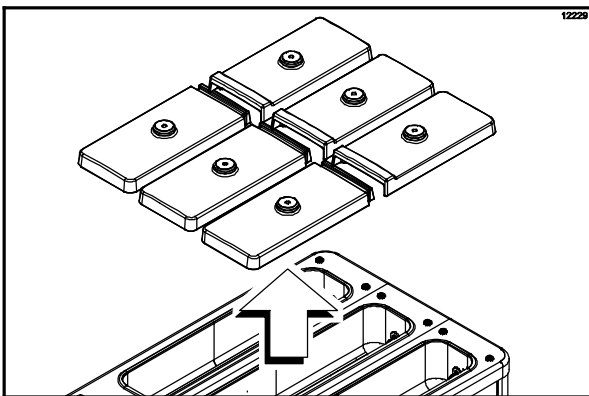


Figure 80

Step 7

Take all the parts to the sink for complete disassembly and brush cleaning.

Step 8

Repeat these steps for each freezing cylinder.

Brush Cleaning



IMPORTANT: Failure to follow these cleaning procedures may result in bacterial contamination of the frozen custard product.

Step 1

Prepare a sink with an approved cleaning solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS. If another approved cleaner is used, dilute it according to the label instructions. (**IMPORTANT:** Follow the label directions. Too STRONG of a solution can cause parts damage, while too MILD of a solution will not provide adequate cleaning.)

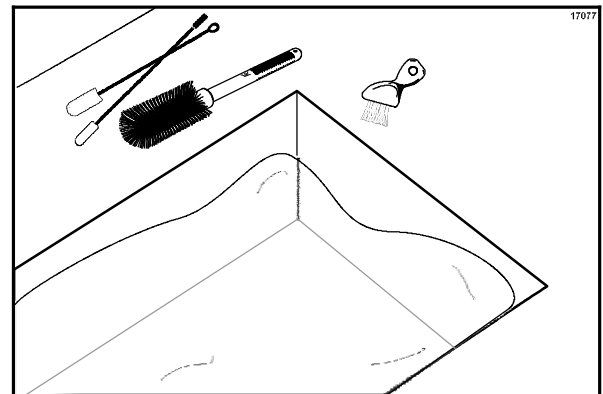


Figure 81

Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2

Thoroughly brush clean all disassembled parts in the cleaning solution, making sure all lubricant and mix film is removed.

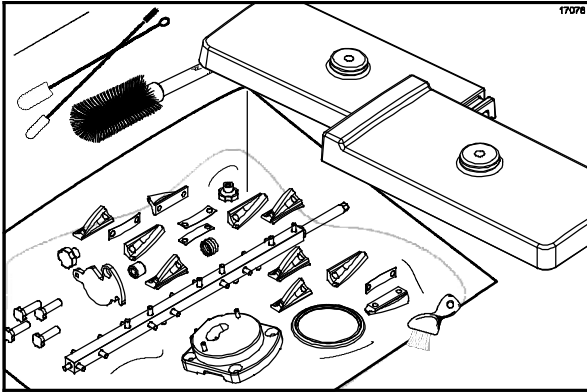


Figure 82

Step 3

Use the double-ended brush to clean the inside of the feed tubes.

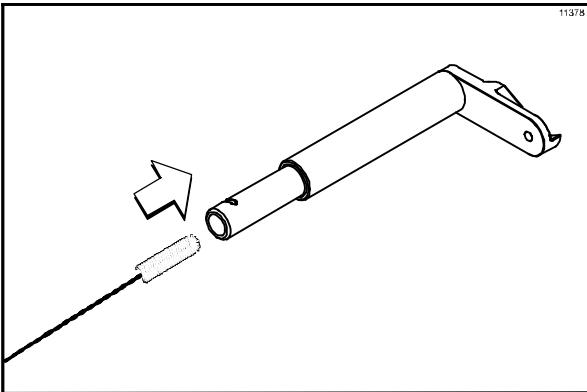


Figure 83

Step 4

Return to the freezer with a small amount of cleaning solution. Using the draw valve brush (1" x 2" x 17"), brush clean the mix inlet hole in each mix hopper.

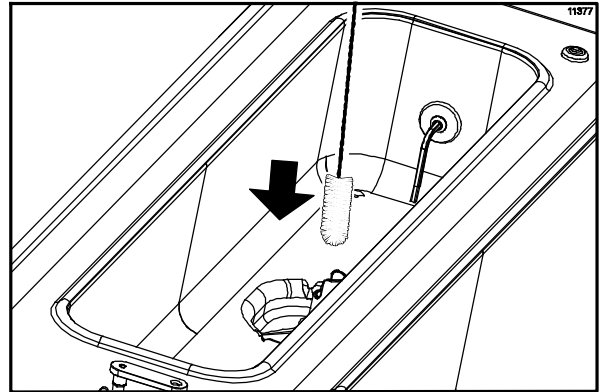


Figure 84

Step 5

Using the brush with the long black tip, brush clean the rear shell bearing at the back of each freezing cylinder.

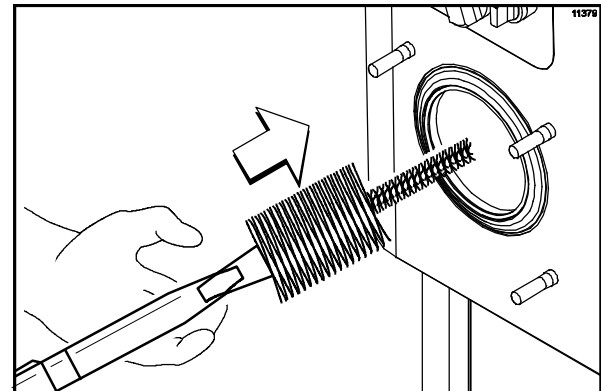


Figure 85

Step 6

Using the long white brush, brush clean each freezing cylinder.

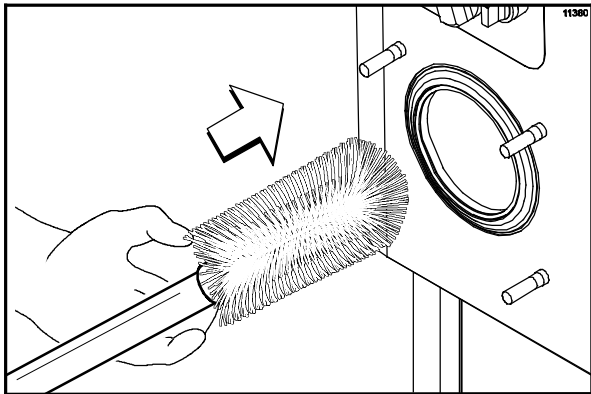


Figure 86

Step 7

Prepare a sink with an approved sanitizing solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

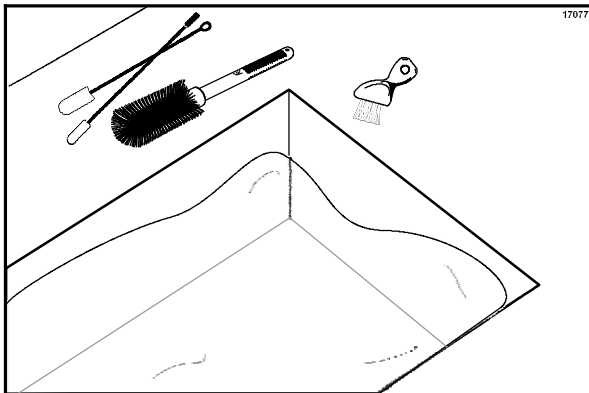


Figure 87

Step 8

Repeat Step 2 using the sanitizing solution.

Step 9

Place all cleaned parts on a clean, dry surface to air dry overnight.

Step 10

Empty, clean, and reinstall the rear drip pan.

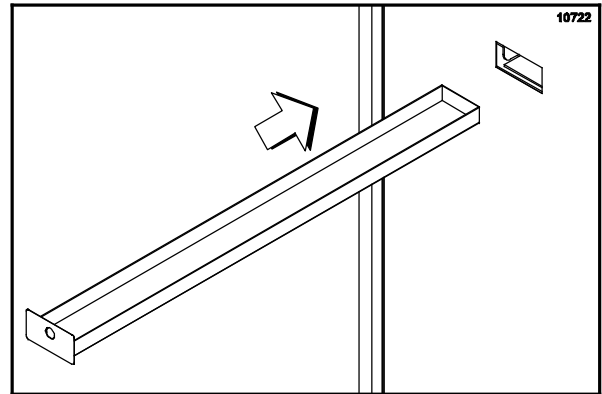


Figure 88

Step 11

Wipe clean all exterior surfaces of the freezer with a clean, sanitized towel.

Section 7 Important: Operator Checklist

During Cleaning and Sanitizing



ALWAYS FOLLOW LOCAL HEALTH CODES.

Cleaning and sanitizing schedules are governed by federal, state, or local regulatory agencies, and must be followed accordingly. If the unit has a “Standby mode”, it must not be used in lieu of proper cleaning and sanitizing procedures and frequencies set forth by the ruling health authority. The following check points should be stressed during the cleaning and sanitizing operations.



CLEANING AND SANITIZING MUST BE PERFORMED DAILY.

Troubleshooting Bacterial Count

- ☐ 1. Thoroughly clean and sanitize the unit regularly, including complete disassembly and brush cleaning.
- ☐ 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all mix passageways.
- ☐ 3. Use the white bristle brush to clean the mix inlet hole which extends from the mix hopper down to the rear of the freezing cylinder.
- ☐ 4. Use the black bristle brush to thoroughly clean the rear shell bearing located at the rear of the freezing cylinder. Be sure there is a generous amount of cleaning solution on the brush.

- ☐ 5. IF LOCAL HEALTH CODES PERMIT THE USE OF RERUN, make sure the mix rerun is stored in a sanitized, covered stainless steel container and used the following day. **DO NOT prime the unit with rerun.** When using rerun, skim off the foam and discard. Mix the rerun with fresh mix in a ratio of 50/50 during the days operation.
- ☐ 6. On a designated day of the week, run the mix as low as feasible and discard it after closing. This will break the rerun cycle and reduce the possibility of high bacteria and coliform counts.
- ☐ 7. Properly prepare the cleaning and sanitizing solutions. Read and follow the label directions carefully. Too strong of a solution may damage the parts and too weak of a solution will not do an adequate job of cleaning or sanitizing.
- ☐ 8. The temperature of the mix in the mix hopper and walk-in cooler should be below 40°F (4.4°C).

Regular Maintenance Checks

- ☐ 1. Replace scraper blades that are nicked or damaged. Before installing the beater assembly, be certain that scraper blades and leaf springs are properly attached to the beater shaft.
- ☐ 2. Check the rear shell bearing for signs of wear (excessive mix leakage in rear drip pan) and be certain it is properly cleaned.
- ☐ 3. Using a long brush and a cloth towel, keep the rear shell bearing and the female hex drive socket clean and free of lubricant and mix deposits.
- ☐ 4. Dispose of seals if they are worn, torn, or fit too loosely, and replace with new ones.

- ☐ 5. Follow all lubricating procedures as outlined in "Assembly".

- ☐ 6. If your unit is air cooled, check the condenser for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the unit. Condensers should be cleaned **monthly** with a soft brush. **Never** use screwdrivers or other metal probes to clean between the fins.

Note: For units equipped with an air filter, it will be necessary to vacuum clean the filters on a monthly schedule.



Caution: Always disconnect electrical power prior to cleaning the condenser. Failure to follow this instruction may result in electrocution.

- ☐ 7. If your unit is water cooled, check the water lines for kinks or leaks. Kinks can occur when the unit is moved back and forth for cleaning or maintenance purposes. Deteriorated or cracked water lines should be replaced only by an authorized Taylor distributor.

Winter Storage

If the place of business is to be closed during the winter months, it is important to protect the freezer by following certain precautions, particularly if the building is subject to freezing conditions.

Disconnect the freezer from the main power source to prevent possible electrical damage.

On water cooled freezers, disconnect the water supply. Relieve pressure on the spring in the water valve. Use air pressure on the outlet side to blow out any water remaining in the condenser. **This is extremely important.** Failure to follow this procedure may cause severe and costly damage to the refrigeration system.

Your local Taylor Distributor can perform this winter storage service for you.

Wrap detachable parts of the freezer such as beater, blades, beater shaft, and freezer door, and place them in a protected dry place. Rubber trim parts and gaskets can be protected by wrapping them with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication which attract mice and other vermin.

It is recommended that an authorized service technician perform winter storage draining, to insure all water has been removed. This will guard against freezing and rupturing of the components.

Section 8

Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
1. The product is too stiff.	a. Flow rate is too slow.	a. Adjust the flow rate.	21
2. The scraper blades make a chattering noise.	a. Flow rate is too slow.	a. Adjust the flow rate.	21
3. The product is too soft.	a. Flow rate is too fast.	a. Adjust the flow rate.	21
	b. There is a problem with the refrigeration system.	b. Call an authorized service technician.	---
4. The mix low indicator is illuminated.	a. Inadequate level of mix in the mix hopper.	a. Fill the mix hopper with mix.	21
	b. Bad electrical connection.	b. Call an authorized service technician.	---
5. The mix low indicator is illuminated and the product is too stiff.	a. The level of mix in the mix hopper is inadequate and the flow rate is too slow.	a. Fill the hopper with mix if further production is required. If no further production is required, open the flow control all the way and place the refrigeration switch in the OFF position.	21 / 23
6. Beater motor won't start.	a. The beater motor overload has tripped.	a. Turn the unit off. Press the reset button and restart the unit.	---
	b. The power switch is in the OFF position.	b. Place the power switch in the ON position.	---
	c. The beater motor switch is in the OFF position.	c. Place the beater motor switch in the ON position.	---
	d. The circuit breaker is off or the fuse is blown.	d. Turn the breaker on, or replace the fuse.	---

Section 9 Parts Replacement Schedule

PART DESCRIPTION	EVERY 3 MONTHS	EVERY 6 MONTHS	ANNUALLY	EVERY 3 YEARS
BRUSH-DBL END-PUMP & FEED		INSPECT & REPLACE IF NECESSARY	MINIMUM	
BRUSH-DRAW VALVE 1"OD X 2"X17"		INSPECT & REPLACE IF NECESSARY	MINIMUM	
BRUSH-BARREL		INSPECT & REPLACE IF NECESSARY	MINIMUM	
BRUSH-REAR BRG		INSPECT & REPLACE IF NECESSARY	MINIMUM	
BRUSH-MIX PUMP BODY 3"X7"		INSPECT & REPLACE IF NECESSARY	MINIMUM	
BRUSH-END-DOOR-SPOUT-SS		INSPECT & REPLACE IF NECESSARY	MINIMUM	
GASKET-DOOR	X			
BEARING-DOOR-FRONT	X			
SEAL-DRIVE SHAFT	X			
BLADE-SCRAPER 30 PITCH				X
BLADE-SCRAPER-REAR 30 PITCH				X
SPRING-DASHER BLADE				X

Section 10 Limited Warranty on Equipment

TAYLOR COMPANY LIMITED WARRANTY ON FREEZERS

Taylor Company, a division of Carrier Commercial Refrigeration, Inc. ("Taylor") is pleased to provide this limited warranty on new Taylor-branded freezer equipment available from Taylor to the market generally (the "Product") to the original purchaser only.

LIMITED WARRANTY

Taylor warrants the Product against failure due to defect in materials or workmanship under normal use and service as follows. All warranty periods begin on the date of original Product installation. If a part fails due to defect during the applicable warranty period, Taylor, through an authorized Taylor distributor or service agency, will provide a new or re-manufactured part, at Taylor's option, to replace the failed defective part at no charge for the part. Except as otherwise stated herein, these are Taylor's exclusive obligations under this limited warranty for a Product failure. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below and on the reverse (if any) of this document.

Product	Part	Limited Warranty Period
Soft Serve	Insulated shell assembly	Five (5) years
Frozen Yogurt	Refrigeration compressor (except service valve)	Five (5) years
Shakes	Beater motors	Two (2) years
Smoothies	Beater drive gear	Two (2) years
Frozen Beverage	Printed circuit boards and Softech controls beginning with serial number H8024200	Two (2) years
Batch Desserts	Parts not otherwise listed in this table or excluded below	One (1) year

LIMITED WARRANTY CONDITIONS

1. If the date of original installation of the Product cannot be verified, then the limited warranty period begins ninety (90) days from the date of Product manufacture (as indicated by the Product serial number). Proof of purchase may be required at time of service.
2. This limited warranty is valid only if the Product is installed and all required service work on the Product is performed by an authorized Taylor distributor or service agency, and only if genuine, new Taylor parts are used.
3. Installation, use, care, and maintenance must be normal and in accordance with all instructions contained in the Taylor Operator's Manual.
4. Defective parts must be returned to the authorized Taylor distributor or service agency for credit.
5. The use of any refrigerant other than that specified on the Product's data label will void this limited warranty.

LIMITED WARRANTY EXCEPTIONS

This limited warranty does **not** cover:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of defective parts, replacement parts, or new Products.
2. Normal maintenance, cleaning and lubrication as outlined in the Taylor Operator's Manual, including cleaning of condensers.

3. Replacement of wear items designated as Class "000" parts in the Taylor Operator's Manual.
4. External hoses, electrical power supplies, and machine grounding.
5. Parts not supplied or designated by Taylor, or damages resulting from their use.
6. Return trips or waiting time required because a service technician is prevented from beginning warranty service work promptly upon arrival.
7. Failure, damage or repairs due to faulty installation, misapplication, abuse, no or improper servicing, unauthorized alteration or improper operation or use as indicated in the Taylor Operator's Manual, including but not limited to the failure to use proper assembly and cleaning techniques, tools, or approved cleaning supplies.
8. Failure, damage or repairs due to theft, vandalism, wind, rain, flood, high water, water, lightning, earthquake or any other natural disaster, fire, corrosive environments, insect or rodent infestation, or other casualty, accident or condition beyond the reasonable control of Taylor; operation above or below the electrical or water supply specification of the Product; or components repaired or altered in any way so as, in the judgment of the Manufacturer, to adversely affect performance, or normal wear or deterioration.
9. Any Product purchased over the Internet.
10. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
11. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever.
12. Damages resulting from the use of any refrigerant other than that specified on the Product's data label will void this limited warranty.
13. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
14. **ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER.** Some jurisdictions do not allow the exclusion of incidental or consequential damages, so this limitation may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

LIMITATION OF WARRANTY

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS AND/OR REMEDIES UNDER THE LAW, INCLUDING ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE ORIGINAL OWNER'S SOLE REMEDY WITH RESPECT TO ANY PRODUCTS SHALL BE REPAIR OR REPLACEMENT OF DEFECTIVE COMPONENTS UNDER THE TERMS OF THIS LIMITED WARRANTY. ALL RIGHTS TO CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING CLAIMS FOR LOST SALES, LOST PROFITS, PRODUCT LOSS, PROPERTY DAMAGES OR SERVICE EXPENSES) ARE EXPRESSLY EXCLUDED. THE EXPRESS WARRANTIES MADE IN THIS LIMITED WARRANTY MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

LEGAL REMEDIES

The owner **must** notify Taylor in writing, by certified or registered letter to the following address, of any defect or complaint with the Product, stating the defect or complaint and a specific request for repair, replacement, or other correction of the Product under warranty, mailed at least thirty (30) days before pursuing any legal rights or remedies.

Taylor Company
a division of Carrier Commercial Refrigeration, Inc.
750 N. Blackhawk Blvd.
Rockton, IL 61072, U.S.A.

Section 11

Limited Warranty on Parts

TAYLOR COMPANY LIMITED WARRANTY ON TAYLOR GENUINE PARTS

Taylor Company, a division of Carrier Commercial Refrigeration, Inc. ("Taylor") is pleased to provide this limited warranty on new Taylor genuine replacement components and parts available from Taylor to the market generally (the "Parts") to the original purchaser only.

LIMITED WARRANTY

Taylor warrants the Parts against failure due to defect in materials or workmanship under normal use and service as follows. All warranty periods begin on the date of original installation of the Part in the Taylor unit. If a Part fails due to defect during the applicable warranty period, Taylor, through an authorized Taylor distributor or service agency, will provide a new or re-manufactured Part, at Taylor's option, to replace the failed defective Part at no charge for the Part. Except as otherwise stated herein, these are Taylor's exclusive obligations under this limited warranty for a Part failure. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below and on the reverse (if any) of this document.

Part's Warranty Class Code or Part	Limited Warranty Period
Class 103 Parts ¹	Three (3) months
Class 212 Parts ²	Twelve (12) months
Class 512 Parts	Twelve (12) months
Class 000 Parts	No warranty
Taylor Part #072454 (Motor-24VDC *C832/C842*)	Four (4) years

LIMITED WARRANTY CONDITIONS

1. If the date of original installation of the Part cannot be otherwise verified, proof of purchase may be required at time of service.
2. This limited warranty is valid only if the Part is installed and all required service work in connection with the Part is performed by an authorized Taylor distributor or service agency.
3. The limited warranty applies only to Parts remaining in use by their original owner at their original installation location in the unit of original installation.
4. Installation, use, care, and maintenance must be normal and in accordance with all instructions contained in the Taylor Operator's Manual.
5. Defective Parts must be returned to the authorized Taylor distributor or service agency for credit.
6. This warranty is not intended to shorten the length of any warranty coverage provided pursuant to a separate Taylor Limited Warranty on freezer or grill equipment.
7. The use of any refrigerant other than that specified for the unit in which the Part is installed will void this limited warranty.

^{1, 2} Except that Taylor Part #032129SER2 (Compressor-Air-230V SERV) and Taylor Part #075506SER1 (Compressor-Air-115V 60HZ) shall have a limited warranty period of twelve (12) months when used in Taylor freezer equipment and a limited warranty period of two (2) years when used in Taylor grill equipment.

LIMITED WARRANTY EXCEPTIONS

This limited warranty does **not** cover:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of defective Parts, replacement Parts, or new Parts.
2. Normal maintenance, cleaning and lubrication as outlined in the Taylor Operator's Manual, including cleaning of condensers or carbon and grease buildup.
3. Required service, whether cleaning or general repairs, to return the cooking surface assemblies, including the upper platen and lower plate, to an operational condition to achieve proper cooking or allow proper assembly of release sheets and clips as a result of grease build-up on the cooking surfaces, including but not limited to the platen and plate, sides of the shroud or top of the shroud.
4. Replacement of cooking surfaces, including the upper platen and lower plate, due to pitting or corrosion (or in the case of the upper platen, due to loss of plating) as a result of damage due to the impact of spatulas or other small wares used during the cooking process or as a result of the use of cleaners, cleaning materials or cleaning processes not approved for use by Taylor.
5. Replacement of wear items designated as Class "000" Parts in the Taylor Operator's Manual, as well as any release sheets and clips for the Product's upper platen assembly.
6. External hoses, electrical power supplies, and machine grounding.
7. Parts not supplied or designated by Taylor, or damages resulting from their use.
8. Return trips or waiting time required because a service technician is prevented from beginning warranty service work promptly upon arrival.
9. Failure, damage or repairs due to faulty installation, misapplication, abuse, no or improper servicing, unauthorized alteration or improper operation or use as indicated in the Taylor Operator's Manual, including but not limited to the failure to use proper assembly and cleaning techniques, tools, or approved cleaning supplies.
10. Failure, damage or repairs due to theft, vandalism, wind, rain, flood, high water, water, lightning, earthquake or any other natural disaster, fire, corrosive environments, insect or rodent infestation, or other casualty, accident or condition beyond the reasonable control of Taylor; operation above or below the gas, electrical or water supply specification of the unit in which a part is installed; or Parts or the units in which they are installed repaired or altered in any way so as, in the judgment of Taylor, to adversely affect performance, or normal wear or deterioration.
11. Any Part purchased over the Internet.
12. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
13. Electricity, gas or other fuel costs, or increases in electricity or fuel costs from any reason whatsoever.
14. Damages resulting from the use of any refrigerant other than that specified for the unit in which the Part is installed will void this limited warranty.
15. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
16. **ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER.** Some jurisdictions do not allow the exclusion of incidental or consequential damages, so this limitation may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

LIMITATION OF WARRANTY

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS AND/OR REMEDIES UNDER THE LAW, INCLUDING ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE ORIGINAL OWNER'S SOLE REMEDY WITH RESPECT TO ANY PRODUCTS SHALL BE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS UNDER THE TERMS OF THIS LIMITED WARRANTY. ALL RIGHTS TO CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING CLAIMS FOR LOST SALES, LOST PROFITS, PRODUCT LOSS, PROPERTY DAMAGES OR SERVICE EXPENSES) ARE EXPRESSLY EXCLUDED. THE EXPRESS WARRANTIES MADE IN THIS LIMITED WARRANTY MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

LEGAL REMEDIES

The owner **must** notify Taylor in writing, by certified or registered letter to the following address, of any defect or complaint with the Part, stating the defect or complaint and a specific request for repair, replacement, or other correction of the Part under warranty, mailed at least thirty (30) days before pursuing any legal rights or remedies.

Taylor Company
a division of Carrier Commercial Refrigeration, Inc.
750 N. Blackhawk Blvd.
Rockton, IL 61072, U.S.A.