OPERATOR'S MANUAL



Model 345/346/349/355 Slush Freezers

Original Operating Instructions

039710-M

6/19/01 (Original Publication) Updated 4/16/15

Taylor Distributor:			
Address:			
Fax:			
Parts:			
Information found	l on the data label:		
Model Number:			
Serial Number:			
Electrical Specs:	Voltage	Cycle	
	Phase		
Maximum Fuse Siz	ze:		A
Minimum Wire Am	pacity:		A
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Complete this page for quick reference when service is required:

039710-M

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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.

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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

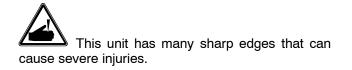
In all areas of the world, equipment should be installed in accordance with existing local codes. Please contact your local authorities if you have any questions.

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 and repairs on the equipment.
- Authorized service personnel should consult OSHA Standard 29CFRI910.147 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 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 freezer must be disconnected prior to performing any 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 equipment.

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 user and the equipment have been addressed.

Air Cooled Units

Air cooled units require 6" (152 mm) minimum air space around all sides. Failure to allow adequate clearance can reduce the refrigeration capacity of the freezer and possibly cause permanent damage to the compressor(s).

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of $70^{\circ}-75^{\circ}F$ ($21^{\circ}-24^{\circ}C$). The freezer has successfully performed in high ambient temperatures of $104^{\circ}(40^{\circ}C)$ 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 equipment for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or equipment damage.

Uncrate the unit and inspect it for damage. Report any damage to your Taylor Distributor.

This piece of equipment is made in the USA and has USA sizes of hardware. All metric conversions are approximate and vary in size.

Water Cooled Refrigeration Units

(Water Cooled Units Only)

Failure to use adequate size water lines may cause the unit to go off on high head pressure and shut down. 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 are two water "in" connections and one water "out" line 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**.

IMPORTANT: Water pressures are pre-set at the factory. **Do not adjust the water.** Improper water adjustments may cause operation discrepancies.

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. **IMPORTANT:** The water filter (064422-SER) must be thoroughly flushed with water before connecting it to the machine. This removes carbon particles that could clog the flow control. To flush the filter, connect the inlet end of the filter to the water supply. Position the outlet end of the filter over an empty pail. Open the water supply. Allow water to flow through the filter until the water exiting the filter is clear. Close the water supply. Attach the outlet end of the filter to the machine. Reopen the water supply.

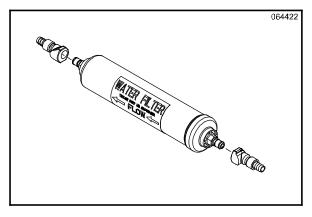


Figure 1

Water Connections

An adequate cold water supply must be provided with a hand shut-off valve. On the back of the unit, a 3/8" (9.5 mm) M.F.L. water connection has been provided for easy hook-up. A flexible line is recommended, if local codes permit. A minimum of 25 psi water pressure is required to avoid having the unit cut out the low water pressure switch. A booster pump must be provided if this pressure is not available.

Note: Water lines beyond 200 ft. (61 m) require 1/2" (13 mm) water lines.



INSTALL POTABLE WATER CONNECTION WITH ADEQUATE BACK-FLOW PROTECTION TO COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES.

It is always a good practice to have a filter system to improve the quality of the water and to avoid clogging the operating components.

Electrical Connections

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70-1987. 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. Compliance therewith and proper maintenance will result in an installation essentially free from hazard! In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.



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

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

DO NOT operate this freezer with larger fuses than specified on the unit data label. Failure to follow this instruction may result in electrocution or damage to the machine.

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 equipment'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.

Beater Rotation



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

Note: The following procedures should be performed by a trained service technician.

To correct the rotation on a three-phase unit, interchange any two incoming power supply lines at freezer main terminal block only.

To correct rotation on a single-phase unit, change the leads inside the beater motor. (Follow the diagram printed on the motor.)

Initial Freezing Cylinder Cleaning

Due to the types of products used in FCB equipment, it is imperative that the freezing cylinder and the inlet tube be thoroughly brush cleaned, rinsed, and sanitized before running any product.

Prepare a cleaning solution, using 2 oz. of liquid detergent in 2 gallons of warm water. Using this solution, brush clean the freezing cylinder and the inlet tube. Rinse the freezing cylinder and the inlet tube with clean water and then sanitize, using the sanitizing procedures outlined in this Operator Manual, starting on page 29.

Refrigerant

In consideration of our environment, Taylor uses only earth friendly HFC refrigerants. The HFC refrigerant used in this unit is R404A. This refrigerant is 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.

Use only R404A refrigerant that conforms to the AHRI standard 700 specification. 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 reminds technicians to be cautious of government laws regarding refrigerant recovery, recycling, and reclaiming systems. If you have any questions regarding these laws, please contact the factory Service Department.

WARNING: R404A 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.

Syrup System Connections

- 1. Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained according to federal, state and local laws.
- 2. Hook up cold water supply to freezer to supply water to the carbonator. A minimum of 21 PSI of water pressure is required at the low pressure switch. The low pressure switch will cause the entire freezer to shut down if the water pressure drops below 7 PSI for longer than one minute.

The water regulator should be set at 35 PSI. When the power switch is turned on the water pump will immediately activate to maintain water pressure.

- 3. Electrical Hook-Up
 - a. One power cord.
 - b. Refer to the data label.

- c. Be sure all control switches on the front panel are in the "OFF" position.
- d. The freezer must be properly grounded.
- 4. A harness with three nylobrade tubes feeds through the base pan and exits the rear of the freezer. (The Model 355 is equipped with four tubes.)
 - a. Connect the CO_2 line to the CO_2 regulator that is closest to the CO_2 tank (primary regulator). This line will supply CO_2 to the freezer.

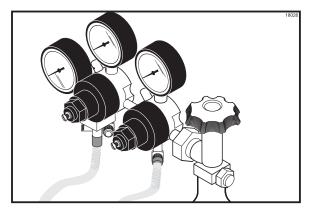


Figure 2

b. Connect the #1 line to the syrup tank for the left side of the freezer as viewed from the front of the machine. This line will supply syrup to the left syrup sentry.

Note: For Bag-in-Box units (BIB), connect the #1 line to the Bag-In-Box instead of the syrup tank.

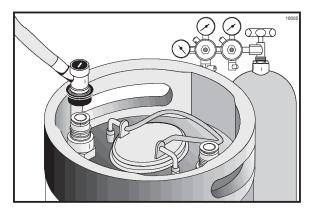


Figure 3

c. Connect the #2 line to the syrup tank (or the Bag-in-Box) for the right side of the freezer. This line will supply syrup to the right syrup sentry.

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- d. Connect the #4 line on the Model 355 to the water regulator on the remote carbonator. This line monitors the water pressure supplied to the unit.
- 5. There are two spare CO_2 lines provided. Use one of the spare CO_2 lines to connect one end to the individual regulator (secondary regulator) and the other end to the first syrup tank. Use the other spare CO_2 line to connect the CO_2 to the second syrup tank.

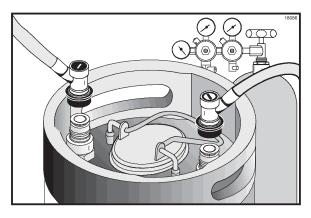


Figure 4 Note: For Bag-in-Box units, connect the CO₂ lines to

the Bag-in-Box pumps instead of the syrup tanks.

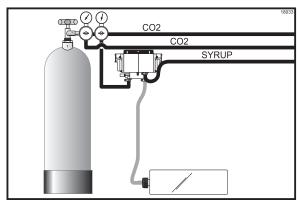


Figure 5

6. Set the primary regulator on the CO_2 tank to 90 PSI (6.2 BAR).

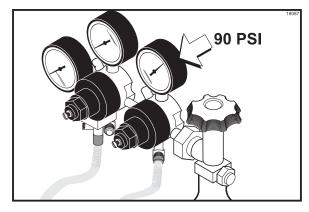


Figure 6

 Set the secondary regulator on the CO₂ tank to 60 PSI (4.1 BAR) for the syrup tanks or the BIB pumps.

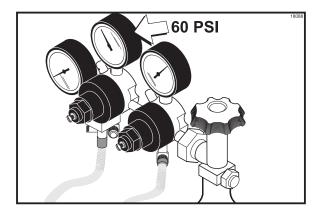


Figure 7

- 8. Turn the cold water supply on.
- Check for CO₂ leaks. This can be done by closing the valve on the top of the CO₂ tank. Watch the high pressure gauge; it should hold pressure. If it does not, there is a CO₂ leak. Use a soap solution to locate and repair the leak.

 For Bag-in-Box syrup delivery system, connect the two spare CO₂ lines from the secondary regulator to each "Gas In" fitting on the pumps. Set secondary regulator pressure to 60 PSI (4.1 BAR) depending on the length of syrup line run to the unit.

Important: Ensure that the Bag-in-Box switch is enabled.

- 11. The CO₂ regulator assembly (primary regulator) inside the freezer should be set at 60 PSI (4.1 BAR). The secondary regulator, located inside the freezer just behind the primary regulator, can be adjusted from 20 to 25 PSI. (The factory recommendation is 20 PSI.) Increasing the pressure from 20 PSI will increase the overrun. You should always stay within the 20 to 25 PSI range as the gauge reflects the pressure in the hopper and barrel. The setting will be determined by the desired overrun and the syrup used.
- 12. The CO₂ low pressure switch requires at least 74 PSI before the freezer will start. It is set to cut out at 60 PSI and in at 74 PSI.
- 13. The pressure relief valve on the hopper cover is set to relieve at 30 PSI in case of excess pressure in the hopper.
- 14. There are check valves in the CO₂, syrup, and water lines to prevent any back flow of soda water, product, or CO₂.
- 15. The CO₂ solenoids which supply CO₂ to the hoppers are wired to provide CO₂ in all control settings except "DEFROST" and "OFF".

Section 2

The freezer(s) you have purchased has been carefully engineered and manufactured to give you dependable operation.

This unit(s), when properly operated and cared for, will produce a consistent quality product. Like all mechanical products, this machine will require cleaning and scheduled maintenance. A minimum amount of care and attention is necessary if the operating procedures outlined in this manual are followed closely.

This Operator's Manual should be read before operating or performing any maintenance on your equipment.

Your freezer will NOT eventually compensate and correct for 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 all personnel responsible for the equipment's operation study these procedures together in order to be properly trained and to make sure that no misunderstandings exist.

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

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.

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



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 machine, Taylor has no obligation to either supply or provide its replacement either at billable or unbillable terms. Taylor does have the obligation to recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five year warranty of the compressor.

Taylor will continue to monitor the industry and test new alternates as they are being developed. Should a new alternate prove, through our testing, that it would be accepted as a drop-in replacement, then the above disclaimer would become null and void. To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the Model/Serial Number of the unit in question.

Section 3

We at Taylor are concerned about the safety of the operator when he or she comes in contact with the freezer and its parts. Taylor has gone to extreme efforts to design and manufacture built- in safety features to protect both you and the service technician. As an example, warning labels have been attached to the freezer to further point out safety precautions to the operator.

IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury or death. Failure to comply with these warnings may damage the machine and its components. Component damage will result in part replacement expense and service repair expense.

DO NOT operate the freezer without reading this Operator Manual. Failure to follow this instruction may result in equipment damage, poor freezer performance, health hazards, or personal injury.

This appliance 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, unless given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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 equipment's frame.

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

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- **DO NOT** operate the freezer unless it is properly grounded.
- **DO NOT** operate the freezer with larger fuses than specified on the freezer data label.
- All repairs must be performed by an authorized Taylor service technician.
- The main power supplies to the machine must be disconnected prior to performing any repairs.
- For Cord Connected Units: Only Taylor authorized service technicians or licensed electricians may install a plug or replacement cord on these units.
- 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, 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 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.

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 machine.
- **DO NOT** operate the freezer unless all service panels and access doors are restrained with screws.
- **DO NOT** remove any internal operating parts (example: freezer door, beater, scraper blades, etc.) unless all control switches are in the OFF position and ALL PRESSURE IN THE FREEZING CYLINDER HAS BEEN RELIEVED.

Failure to follow these instructions may result in contaminated product or severe personal injury 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 asssembly. The scraper blades are very sharp.

This freezer must be placed on a level surface. Failure to comply may result in personal injury or equipment damage.

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 manual for the proper procedure to clean this unit.

This machine is designed to maintain product temperature under $41^{\circ}F$ (5°C). Any product being added to this machine must be below $41^{\circ}F$ (5°C). Failure to follow this instruction may result in health hazards and poor freezer performance.

CAUTION: This unit is pressurized when in operation. The control switch must be in the OFF position until the unit is completely assembled. No part should ever be removed from the machine while it is in operation. No part should be removed until the control switch has been turned to the OFF position and all pressure has been relieved by opening the draw valve.

Failure to follow these instructions may result in severe personal injury from hazardous moving parts or from the impact of propelled parts.

IMPORTANT: DO NOT obstruct air intake and discharge openings: These units require 6" (152 mm) minimum air space around all sides. Failure to follow this instruction may cause poor freezer performance and damage to the machine.

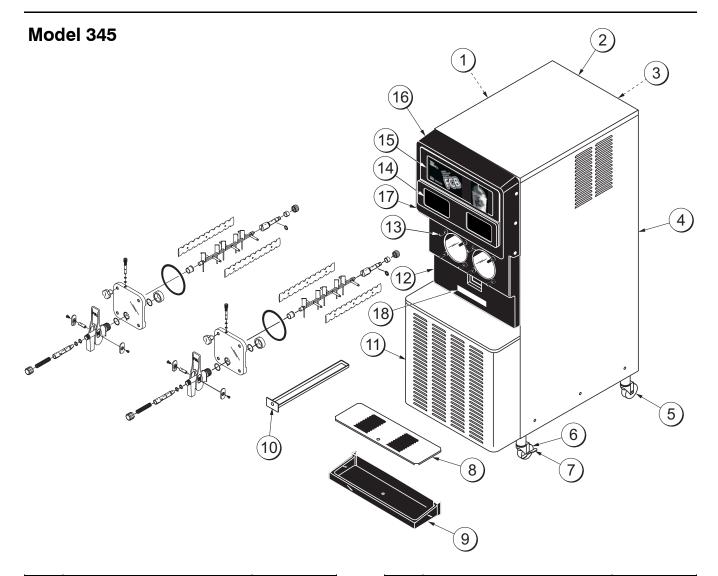
For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of $70^{\circ}-75^{\circ}F$ ($21^{\circ}-24^{\circ}C$). The freezer has successfully performed in high ambient temperatures of 104° ($40^{\circ}C$) at reduced capacities.

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

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.

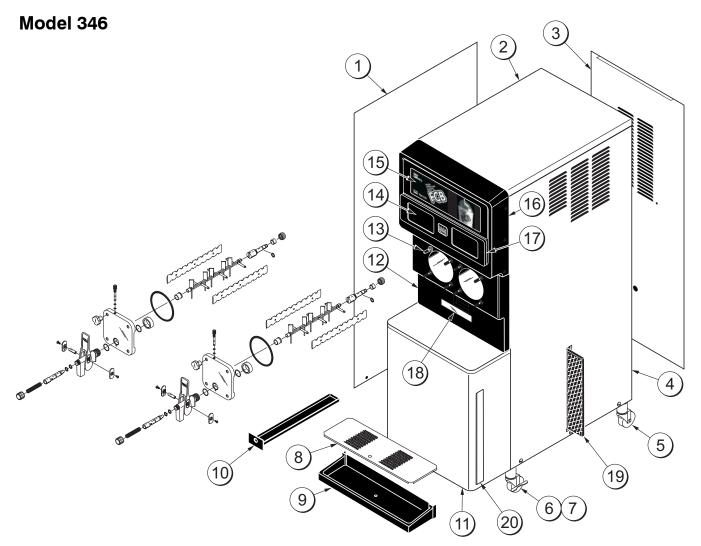
Section 4

Operator Parts Identification



Item	Description	Part No.
1	Panel ASide Left	X45136
2	Hood	044618
3	Panel-Rear	044921-SP1
4	Panel ASide Right	X44919
5	Caster-Swivel 3/4-10 St. 3"	021279
6	Caster-Locking Swivel - 3"	030307
7	Lock-Caster Bracket	032571
8	Shield-Splash	043719
9	Tray-Drip *345/6* Black w/Drain	043720-SP
10	Pan-Drip 19-1/2 Long	035034

Item	Description	Part No.
11	Panel-Service	044916
12	Panel-Front-Lower	043599-BLA
13	Stud-Nose Cone 5/16-18	020445
*13a	Washer-Freezer Stud	036265
14	Card-Flavor Packet	035324
15	Card-FCB POP	043957
16	Panel-Front-Upper	043600-BLA
17	Plate ADec-345-346-355 Black	043639-BLA
18	Decal-Dec-Taylor Domed	053761
*19	Pan-Drip (White) For Drip Guide	043612
*Not Shown		

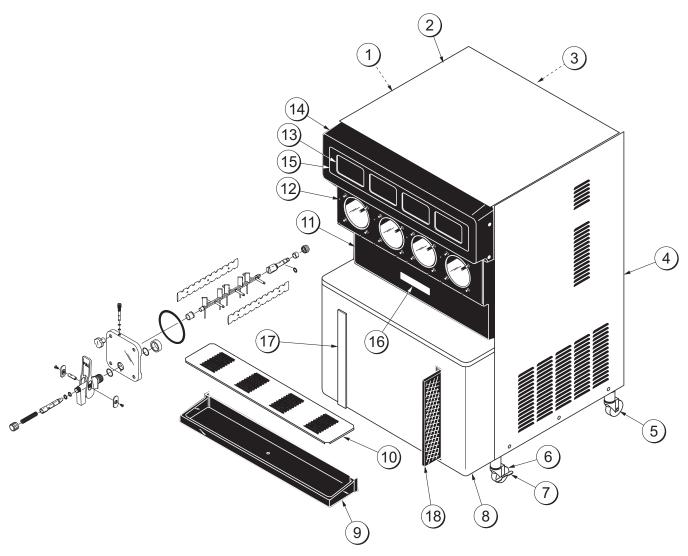


ltem	Description	Part No.
1	Panel ASide Left	X44917
2	Hood	044618
3	Panel-Rear	044921-SP1
4	Panel ASide *346*AC*R*Filter	X53611
5	Caster-Swivel 3/4-10 St. 3"	021279
6	Caster-Locking Swivel 3"	030307
7	Lock-Caster Bracket	032571
8	Shield-Splash	043719
9	Tray-Drip 20" L x 8" D x 3-3/4	043720-SP
10	Pan-Drip 19-1/2 Long	035034
11	Panel-Service *346* Filter	053612

Item	Description	Part No.
12	Panel-Front-Lower	043599-BLA
13	Stud-Nose Cone 5/16-18	020445
*13a	Washer-Freezer Stud	036265
14	Card-Flavor Packet	035324
15	Card-FCB POP	043957
16	Panel-Front-Upper	043600-BLA
17	Plate-Dec-345-346-355* Black	043639-BLA
18	Decal- Dec- Taylor Domed	053761
19	Filter-Air 18L x 16.5H x .70W AC	052779-1
20	Cover- Hole- Filter- Snap In	053801
*21	Pan-Drip (White) For Drip Guide	043612

*Not Shown

Model 349



Item	Description	Part No.
1	Panel ASide Left	X42289
2	Hood	042166
3	Panel-Rear *349* Drain Hole	042198
4	Panel ASide Right	X42291
5	Caster-Swivel 3/4-10 St. 3"	021279
6	Caster-Locking Swivel 3"	030307
7	Lock-Caster Bracket	032571
8	Panel-Service *349* AC	053652
9	Tray-Drip (Black) w/Drain	038275-SP
10	Shield-Splash	038276
11	Panel-Front-Lower	042082-BLA

Item	Description	Part No.
12	Stud-Nose Cone 5/16-18	020445
*12a	Washer-Freezer Stud	036265
13	Card-Flavor Packet	035324
14	Panel-Front Upper	042081-BLA
15	Plate-Dec *349* Black	035410-BLA
16	Decal-Dec-Taylor Domed	053761
17	Cover- Hole- Filter- Snap In	053801
18	Filter- Air 18 L x 16.5 H x .7 W	052779-1
*19	Pan ADrip w/Hose Left	X42201
*20	Pan ADrip w/Hose Right	X42203

*Not Shown

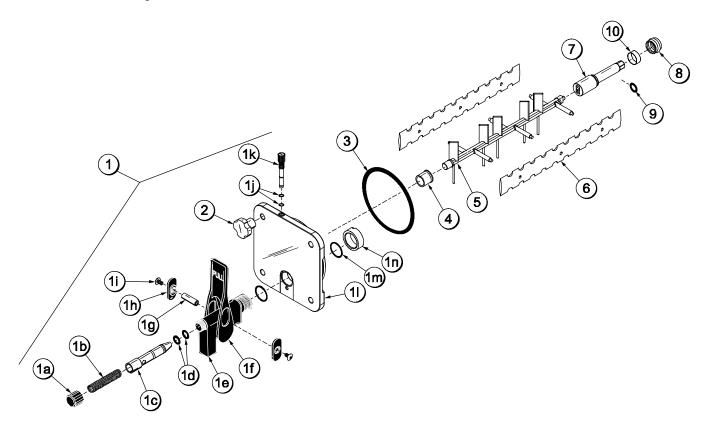
Model 355 12)12 6)

Item	Description	Part No.
1	Panel-Front -Upper	043600-BLA
2	Panel-Side-Left	044619-SP
3	Hood	044618
4	Panel-Rear-Stainless	044621-SS
5	Panel-Side-Right	044620-SP
6	Leg-4" 3/8-16 Stud	036397
7	Shelf-Drip Tray	049697
8	Tray-Drip 20" L x 8" D x 3-3/4	043720
9	Shield-Splash	043719

Item	Description	Part No.
10	Pan-Drip	035034
11	Panel-Front-Lower	043599-BLA
12	Stud-Nose Cone 5/16-18	020445
*12a	Washer-Freezer Stud	036265
13	Card-Flavor Packet	035324
14	Card-FCB POP	043957
15	Plate-Dec-345-346-355 Black	043639-BLA
*16	Pan-Drip (White) For Drip Guide	043612

*Not Shown

Door Assembly

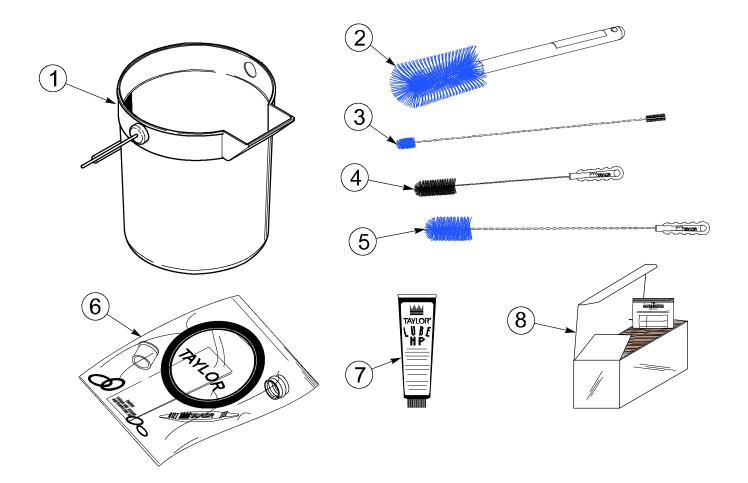


ITEM	DESCRIPTION	PART NO.
1	DOOR	
1a	CAP-SPOUT-DOOR-FCB-BLK	046191-BLA
1b	SPRING-COMP.480X.072X3.0	039320
1c	VALVE-DRAW-DOOR-PRESS.	039324
1d	O-RING-9/16 OD X .103W	016369
1e	SPOUT-DOOR-FCB-BLACK	046190-BLA
1f	HANDLE-DRAW-FCB-BLACK	046192-BLA
1g	PIN-PIVOT-SPOUT-DOOR	039321
1h	SLIDE-HANDLE-DOOR-BLK	046193-BLA
1i	SCREW-10-32X3/8PHL-TRUS	053869
1j	O-RING-9/32 OD X 1/16 WALL	029751
1k	PLUG-PRIME-SLUSH-PRESS.	039568
11	DOOR AFREEZER-SLUSH	X80599

ITEM	DESCRIPTION	PART NO.
1m	O-RING-1.129 ODX.989ID	039219
1n	NUT-SPOUT-DOOR-PRESS.	039323
2	NUT-STUD	043666
3	O-RING-5-1/4ODX.210W (DOOR)	017003
4	BEARING-FRONT-PRESSURE	039349
5	BEATER-PLASTIC-FCB-PRESS.	041182
6	BLADE-SCRAPER-FCB-16INCH	041103
7	SHAFT-BEATER-SLUSH-PRES	083418
8	SEAL-DRIVE SHAFT	032560
*9	O-RING-7/8 OD X .139W (BEATER SHAFT)	025307
10	BUSHING-BEATER SHAFT/BOOT SEAL	042278

*NOTE: O-RING 025307 IS NOT USED ON ALL MODELS. HOWEVER, UNITS BUILT PRIOR TO 10/2009 THAT HAVE NOT BEEN UPDATED WITH METAL REAR SHELL BEARING X67222 OR X83989 STILL REQUIRE O-RING.

Accessories



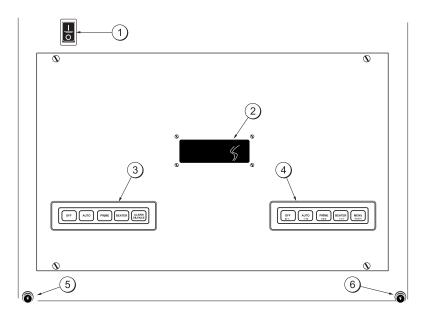
ITEM	DESCRIPTION	PART NO.
1	PAIL-10 QT	013163
2	BRUSH-MIX PUMP BODY-3"X7"	023316
3	BRUSH-DOUBLE ENDED	013072
4	BRUSH-REAR BRG 1"DX2"L	013071

ITEM	DESCRIPTION	PART NO.
5	BRUSH-DRAW VALVE 1-1/2"OD	014753
6	KIT ATUNE UP	X39699
7	LUBRICANT-TAYLOR HI PERF	048232
8	SANITIZER-STERA SHEEN	*See Note

*Note: A sample container of sanitizer is sent with the unit. For reorders, order Stera Sheen part no. 055492 (100 2 oz. packs) or Kay- 5 part no. 041082 (200 packs).

Section 5

Important: To the Operator



ltem	Description	
1	Control Switch	
2	Liquid Crystal Display	
3	Keypad-Left	
4	Keypad- Right	
5	Product Light- Left Side	
6	Product Light-Right Side	

The following chart identifies the symbol definitions used on the Model 349.



Symbol Definitions

To better communicate in the International arena, the words on many of our operator switches and keys have symbols to indicate their functions. The Model 349 is designed with these International symbols.

Control Switch

The control switch is located on the top of the control channel. When placed in the ON position, allows Slushtech $^{\rm TM}$ operation.

Liquid Crystal Display

The Liquid Crystal Display (LCD) is located on the front control panel. The LCD is used to show the current operating mode of the freezing cylinders. The LCD also indicates whether there is enough syrup, CO₂, and water being supplied to the freezer. If an error in the machine operation occurs, a warning tone will sound and the word "FAULT" will flash on the third line of the display.

Operational Mode Display

When the unit is plugged into the wall receptacle and the power switch is placed in the ON position, this screen appears.

SAFETY TIMEOUT ANY KEY ABORTS

This display will remain on the LCD for 60 seconds unless a key is pressed. If any key is pressed (or 60 seconds passes), then the next screen appears.

OFF	MODE	OFF
OK	SYRUP	OK
CO2=OK		WATER=OK

Note: Syrup, CO₂ and water are satisfied.

Pressing both AUTO keys will display this screen.

Αυτο	MODE	Αυτο
οκ	SYRUP	ΟΚ
CO2=OK		WATER=OK

Line 1 indicates the operating mode for each cylinder.

Line 2 indicates the status of the syrup systems in each freezing cylinder.

Line 3 indicates if there is a fault in the system (left side).

The same rules apply to the fourth line which indicates the status of the CO_2 and the H_2O .

Αυτο	MODE	OFF
ОК	SYRUP	ОК
FAULT		
CO2=OK		WATER=OK

Operator Menu Display

The **OPERATOR MENU** is used to enter into the operating screens. To access the OPERATOR MENU, simply press the word "MENU". The cursor will flash under the letter "A", indicating that this is screen A. To select a different screen, use the arrow keys to move the cursor to the desired screen selection and press the SEL key.



Operator Menu Timeout

If the display is left in the operator menu or any of the operator menu selections, except for Current Conditions, the display will return to the system mode screen 60 seconds after the last keypress. The Current Conditions screen will be displayed until manually changed.

Finding Current Fault Conditions

Screen B is FAULT DESCRIPTION. The fault description will indicate if there is a fault in one of the freezing cylinders. When the actual fault is corrected, the warning tone will stop. Only items 9 and 10 require pressing the OFF/<--- key to clear the fault message and the warning tone.

Fault Messages		
Beater Overload	Beater is out on overload.	
Chk Refrig Sys Psi	si Compressor is out on high head pressure (or low suction pressure = option that applies to some units)	
Thermistor Short	Shorted thermistor probe.	
Thermistor Open	Open thermistor probe.	
H2O Pressure Low	Water pressure is low.	
CO2 Pressure Low	CO ₂ pressure is low.	
Syrup Pressure Low	Syrup is no longer present.	
BRL Temp 2 High	Freezing cylinder temperature is above 120°F (49°C).	
BRL Not Cooling	Freezing cylinder is not cooling after 5 minutes.	
No Fault Found	No fault conditions are apparent.	

The following are explanations of the possible faults and the display screens.

Lines 2 and 3 indicate the faults found in the left and right freezing cylinders respectively. The screen below indicates that no faults exist on either side. To see if there is more than one fault, press the +++ key.

Note: On a Model 349, faults for freezing cylinders 1 and 2 are shown on the first screen. Press the SEL key to read fault messages for freezing cylinders 3 and 4.

1. **NO FAULT FOUND** - No fault conditions are apparent.

FAUL	T DESCRIPTION	
L:	NO FAULT FOUND	
R:	NO FAULT FOUND	
CLR	+ + +	SEL

2. **BEATER OVERLOAD** - Beater motor is out on overload. When this fault occurs, the machine automatically turns off. The fault clears when the condition is corrected.

FAULT DESC	RIPTION	
L: BEATER O	VERLOAD	
R: BEATER O	VERLOAD	
CLR	+++	SEL

3. CHK REFRIG SYS PSI - Compressor is out on high head pressure (or low suction pressure = option that applies to some units). When this fault occurs, the machine automatically turns off. The fault clears when the condition is corrected.

FAULT DESCRI L: CHK REFRIG		
R: CHK REFRIC	G SYS PSI	
CLR	+ + +	SEL

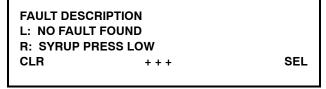
 THERMISTOR SHORT - One or both of the barrel (freezing cylinder) thermistor probes are faulty.

FAULT DESC L: THERMIST		
R: NO FAULT	FOUND	
CLR	+ + +	SEL

5. **THERMISTOR OPEN** - One or both of the barrel (freezing cylinder) thermistor probes are faulty.

FAULT DESCRI	ΤΙΟΝ	
L: THERMISTO	R OPEN	
R: NO FAULT F	OUND	
CLR	+ + +	SEL

6. SYRUP PRESS LOW - When the syrup out indicator displays a lack of syrup, a 15 minute internal timer will start. At this time, no refrigeration or product flow from the flow control will be allowed. Only the beater and CO₂ operate. If the syrup is not replenished at the end of the 15 minutes, the freezing cylinder will shut down and this fault message will appear. Replenish the syrup, and the fault message and warning tone will clear. If using a tank system, priming may be required. (Example shown is for the right side.)



7. CO₂ PRESSURE LOW - When the CO₂ out indicator displays a lack of CO₂, a 60 second internal timer will start. If the CO₂ is not replenished at the end of the 60 seconds, both freezing cylinders will shut down and this fault message will appear. Replenish the CO₂ and the fault message and warning tone will clear.

FAULT DESCF	RIPTION	
L: CO2 PRES	SURE LOW	
R: CO2 PRES	SURE LOW	
CLR	+ + +	SEL

 H₂O PRESSURE LOW - When the water out indicator displays a lack of water, a 60 second internal timer will start. If the water is not replenished at the end of the 60 seconds, all freezing cylinders will shut down and this fault message will appear. Replenish the water and the fault message and warning tone will clear.

FAULT DESCRI L: H2O PRESS R: H2O PRESS	URE LOW	
CLR	+ + +	SEL

9. BRL NOT COOLING - A freezing cylinder check has been established for the AUTO mode of operation. If a freezing cylinder enters the AUTO mode, the control will check product temperature. After five minutes, it will again check product temperature. If product temperature does not drop in that five minute time span, the freezing cylinder will shut down and this message will appear on the fault screen. For this check to be valid, the product temperature must be above 40°F (4.4°C), and the fill switch cannot be activated. If a fill condition exists during this time, the five minute check will be re-initiated.

FAULT DESCRIPTION L: BARREL NOT COOLING R: NO FAULT FOUND CLR +++ SEL

 BRL TEMP 2 HIGH - A maximum allowable product temperature has been established to prevent product from excessive heating. If the product exceeds 120°F (49°C) temperature for any reason (in any mode of operation), the entire unit shuts down.

FAULT DESCR	IPTION	
L: BARREL T	EMP 2 HIGH	
R: NO FAULT	FOUND	
CLR	+ + +	SEL

Faults, when corrected, are cleared from the fault description screen, with the following exceptions: BRL NOT COOLING and BRL TEMP 2 HIGH. These faults require the operator to press the OFF key (when in the FAULT DESCRIPTION screen) in order for the fault to discontinue.

To see if there is more than one fault in either freezing cylinder, press the plus key. To return to the OPERATOR MENU, press the SEL key once. To return to the Main Screen, use the right arrow key to cycle to MENU ITEM A, then press the SEL key. Screen C is SET CLOCK. Move the cursor under the number you wish to change. Press the +++ key to increase the number; press the - - - key to decrease the number. When the desired time and date appears, press the SEL key once to return to the OPERATOR MENU.

Note: The clock is programmed with military time.

SET CLOCK <u>14</u> :30		6/25/01
<>	+ + +	 SEL

This screen will appear if an invalid date is entered. (example: If the date entered exceeds the days of that month.)

SET CLOCK <u>14</u> :30	INVALID DATE	02/31/01 SEL
----------------------------	--------------	-----------------

This screen allows the Daylight Saving Time options.

DAYLIGHT SAVI	NG TIME	
<u>ENABLE</u>	DISABLE	
<>		SEL

If the Daylight Saving Time option is enabled, then the time will be advanced by one hour at 2:00 a.m. on the first Sunday in April, and will be retarded by one hour at 2:00 a.m. on the last Sunday in October.

Screen D is MANUAL DEFROST. This screen allows the operator to manually defrost the left side of the unit.

Place the cursor under YES, press the SEL key, and the command will be executed.

MANUAL DEFROST LEFT SIDE	<u>YES</u> NO
<>	SEL

Repeat the procedure for the right side of the unit.

MANUAL DEFROST RIGHT SIDE	<u>Yes</u> no
<>	SEL

Note: The models 345 and 355 allow only one freezing cylinder to be defrosted at a time. This applies to freezing cylinder pairs on the model 349. Attempting to place a freezing cylinder into defrost while the other freezing cylinder is defrosting will result in the following screen. (Model 346 does not have this restriction.)

ALREADY IN DEFROST

Press the SEL key to return the unit to the OPERATOR MENU.

Screen E is SYSTEM INFORMATION. It consists of 6 display features.

Press the SEL key to advance to the next feature.

The first feature indicates the **software version**.

SYSTEM INFORMATION 355 CONTROL UVC2 VERSION 2.03

SEL

The second feature indicates the bill of material number and the serial number.

It also indicates if the unit is equipped with a water pressure switch.

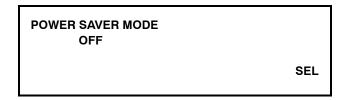
B.O.M. 035527C000 S/N K000000	
WITH H20 PRESS SW	
	SEL

The third feature indicates the version number of the language and text.

SYSTEM INFORM	ATION	
VERSION 1.05	ENGLISH 386	SEL

The fourth feature will display the **Power Saver Mode**, as **OFF**, **REST**, or **STANDBY**.

If the Power Saver Mode is OFF, the following screen will be displayed.



If a Power Saver Mode is programmed, one of the following screens will appear. (The model 349 will display defrost information for freezing cylinders 1, 2, 3, and 4 instead of LEFT and RIGHT.)

There are seven possible Power Saver Mode time frames (cycles). The second display line shows the cycle (1 of 7) as well as the time and day at which the Power Saver Mode will begin for that cycle. The third line shows the time and day that the Power Saver Mode will end for that cycle. Press the +++ or - - - keys to view other cycles.

POWER SAVER	REST		
CYCLE 1	SUN		01:00
	SUN		08:30
+ + +		SEL	

POWER SAVER	STANDBY		
CYCLE 1	SUN		01:00
	SUN		08:30
+ + +		SEL	

The fifth feature will indicate the left side defrost time(s) and which day(s) the defrost will occur.

Each freezing cylinder has eight possible defrost times (cycles) for each day of the week. If all seven days have the same time for a given cycle, then the following screen will appear. This example shows that ALL seven days have CYCLE 1 programmed for 9:00. Press the +++ or - - - keys to view other cycles.

DEFROST TIME	ELEFT		
CYCLE 1	ALL		09:00
+ + +		SEL	

If one or more days of the week have a given cycle programmed at different times, then the following display will appear. This example shows that Sunday's CYCLE 1 is programmed for 9:00. The fact that SUN is displayed (instead of ALL) indicates that some other day(s) CYCLE 1 is programmed for a different time (or not programmed at all). Using the cursor keys, place the cursor under the cycle number. Press the +++ or --- keys to view other defrost times (cycles) for the day shown. Place the cursor under the day (SUN) and press the +++ or --- keys to access the other days of the week.

DEFROST TIME LEFT			
CYCLE 1	SUN		09:00
<>	+++ •••	SEL	

The sixth feature will indicate the right side defrost time(s) and which day(s) the defrost will occur.

Note: The functionality is the same as described previously for the left side defrost.

DEFROST TI CYCLE <u>1</u>	ME RIGHT ALL		10:00
+ + -	+	SEL	

DEFROST TIME RIGHT			
CYCLE 1	SUN		10:00
<>	+++	SEL	

Press the SEL key to return to the OPERATOR MENU.

Screen F is CURRENT CONDITIONS. This screen displays the current viscosity and product temperature for each freezing cylinder. An **asterisk** will indicate which side is refrigerating. Press the SEL key to return to the OPERATOR MENU.

Note: Viscosity is checked only when product temperature is below 40° F/4.4 $^{\circ}$ C.

The following screen is exemplary of models 345, 346, and 355. The model 349 displays all four freezing cylinders.

CURRENT C	ONDITIONS	
L*	999HD	27.5F
R	1200HD	26.5F
		SEL

Screen G is FAULT HISTORY. This option provides a record of the last 20 faults. The display also indicates the date and time each fault occurs.



Press the arrow keys to increase or decrease the fault page.

Page numbers are located in the upper right hand corner of the display. The most recently recorded fault will appear on page 1.

	2
06/25/01 B SYRUP PRESS LOW	08:33
+++	SEL
+++	JLL

The fault **description** is listed on the third line of the fault page.

FAULT HISTORY 06/25/01		3 08:32
B H2O PRESS LOW	+++	SEL

Press the MENU/SEL key to return to the OPERATOR MENU.

Screen H is SERVICE MENU. This screen allows the authorized service technician to access service information. Return to the OPERATOR MENU by using the arrow keys to move the cursor under the letter "A", and press the MENU/SEL key.



Syrup Out Indicator

AUTO	MODE	Αυτο
OUT	SYRUP	ΟΚ
СО2-ОК		WATER-OK

If the word "OUT" appears in one of the columns next to the word "SYRUP", it indicates a lack of syrup or syrup pressure being supplied for the indicated freezing cylinder. If the unit is in the AUTO or PRIME modes, the product light will flash and a warning tone will sound for that freezing cylinder. At this time, replace the appropriate syrup. As a safety feature, the refrigeration system automatically stops to prevent a freeze-up in the freezing cylinder.

If a syrup out condition occurs on one side, that side will enter the HOLD mode at which time refrigeration remains off, the beater continues to run, and the CO_2 solenoid is closed for that side to prevent the dispensing of product. The opposite side will not be affected.

CO₂ Out Indicator

AUTO	MODE	AUTO
OK	SYRUP	OK
CO2-OUT		WATER-OK

On the LCD, if the word "OUT" appears next to the word "CO₂" it indicates a lack of CO₂ being supplied to the freezer. The product light will also flash and a warning tone will sound. This will continue until the CO₂ is replaced. If the CO₂ is not replaced within one minute, the machine will shut down and a fault message will appear.

Water Out Indicator

AUTO	MODE	Αυτο
OK	SYRUP	ΟΚ
СО2-ОК		WATER-OUT

On the LCD, if the word "OUT" appears next to the word "WATER", it indicates a lack of water being supplied to the freezer. In addition, the product light will flash and a warning tone will sound. This will continue until the proper amount of water is supplied to the freezer. If the water is not supplied within one minute, the machine will shut down and a fault message will appear.

Audio Alarm Silencer

The audio alarm will be disabled if the ALARM SILENCE key is pressed. If a new fault or fault condition occurs or the system mode changes, the audio alarm will be re-enabled automatically. If the audio alarm is silenced for greater than 30 minutes without correcting the fault, it will be re-enabled automatically.

Product Light

When the light is flashing, it indicates that the product is not at serving viscosity. This will occur during the initial freeze down, a defrost cycle and a FAULT condition and during power saver modes.

Sampling Valve

The sampling valve is located behind the front drip tray. The sampling valve is used to obtain a brix reading.

Daily Procedures

The following procedure should be performed daily.

Remove the splash shield, front drip tray and center drip pan. Take these parts to the sink and brush-clean them. Re-install the parts onto the freezer.

Section 6

The Models 345, 346 and 355 contain two 7 quart (6.6 liter) freezing cylinders. The Model 349 contains four 7 quart (6.6 liter) freezing cylinders.

CAUTION: This unit is pressurized when in operation. The control switch, located on the top side of the control box must be in the OFF position until the unit is completely assembled. No part should ever be removed from the machine while it is in operation. No parts should be removed until the control switch has been turned to the OFF position and all pressure has been relieved at the draw handle.

The syrup flow controls combine the two ingredients of soda water and syrup, and send this combination to the mix hoppers. As product is drawn, new product from the hopper will flow through a mix feed tube down into the freezing cylinder. The mix hopper is supplied with 20 pounds of CO_2 gas for dispensing the finished product.

We begin our instructions at the point where the parts are disassembled and laid out to air dry.

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

Duplicate the following procedures, where they apply, for the remaining freezing cylinder(s).

If you are disassembling the machine for the first time or need information to get to this starting point in our instructions, turn to page 36, "Disassembly" and start there.

Assembly

MAKE SURE THE CONTROL SWITCH IS IN THE OFF POSITION. Failure to do so may result in personal injury or component damage.

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

Step 1

Lubricate the o-ring groove. Slide the o-ring into the groove on the drive shaft. Lubricate the drive shaft seal groove, the o-ring, and the shaft portion that comes in contact with the bearing on the beater drive shaft. **DO NOT** lubricate the hex end of the drive shaft.

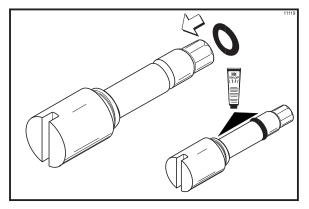


Figure 9

Lubricate the inside diameter of the drive shaft seal. Install the drive shaft seal bushing in the drive shaft seal.

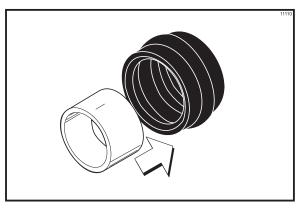


Figure 10

Note: The drive shaft bushing must be positioned in the center of the drive shaft seal.

Slide the seal and bushing over the shaft and groove until it snaps into place. Fill the inside portion of the seal with 1/4" more lubricant and evenly lubricate the end of the seal that fits onto the rear shell bearing.

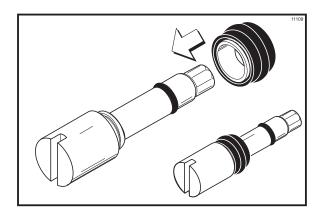


Figure 11

Insert the beater drive shaft into the freezing cylinder, hex end first, and into the rear shell bearing until the seal fits securely over the rear shell bearing. Be certain the drive shaft fits into the drive coupling without binding. Remove any excess lubricant from the seal.

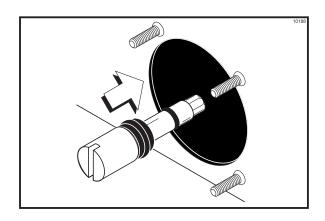


Figure 12

Step 2

Install the beater assembly. First check the scraper blades for any nicks or signs of wear. If any nicks are present or if the blade is worn, replace both blades. If the blades are in good condition, place the scraper blades over the holding pins on the beater.

Note: Each hole on the scraper blade must fit securely over each pin.

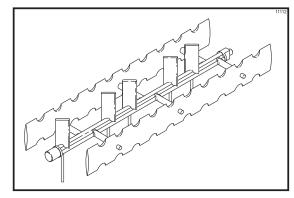


Figure 13

Align the flats on the end of the beater assembly with the drive shaft. Make sure the beater assembly locating pin is in position in the locating hole of the drive shaft. Turn the beater slightly to be certain that the beater is properly seated. When in position, the beater will be approximately 3/8" inside the front of the freezing cylinder.

Important: Failure to properly seat the beater may cause damage to the beater and the door.

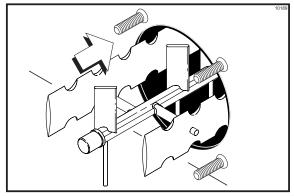
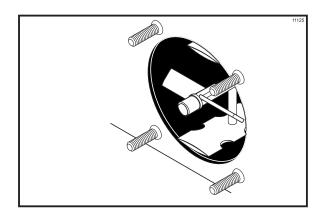


Figure 14

Note: The scraper blades on the beater assembly should be in the 6 and 12 o'clock positions. This will enable freezer door installation.





Step 3

Install the draw valve. Slide the two o-rings into the grooves on the draw valve. Lubricate the o-rings and the valve as illustrated below.

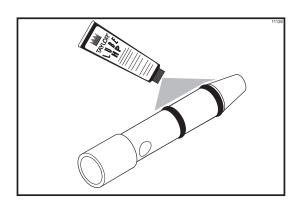


Figure 16

Insert the draw valve into the freezer door spout from the front of the unit. The valve is properly installed when the hole in the draw valve is visible in the slot of the freezer door spout.

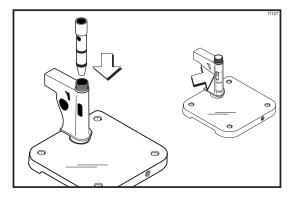


Figure 17

Snap the draw valve handle onto the door spout. Align the hole in the draw valve with the slot in the draw handle.

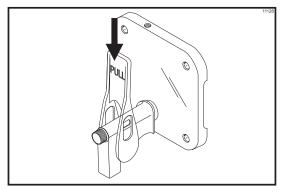


Figure 18

Slide the pivot pin through the draw handle and into the draw valve.

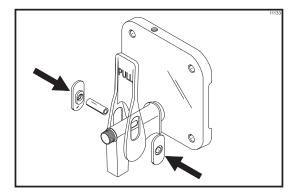


Figure 19

Place the draw handle slide over the opening in the draw handle and the pivot pin. Secure the assembly with screws.

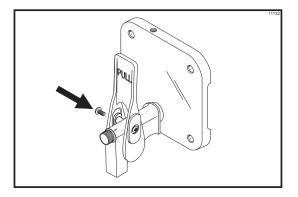


Figure 20

Insert the spring into the front of the door spout.

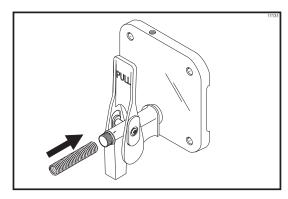


Figure 21

Place the threaded cap on the end of the draw valve cavity. Turn the cap clockwise until it is secure.

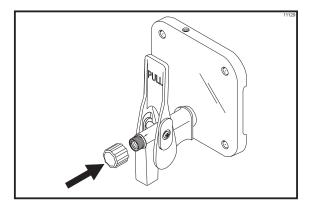


Figure 22

Step 4

Install the prime plug. Place the two o-rings on the prime plug and lightly lubricate.

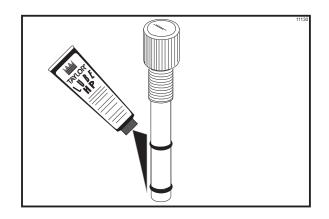


Figure 23

Step 5

Place the large o-ring into the door groove and lightly lubricate.

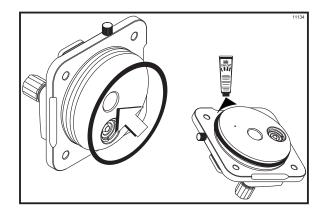
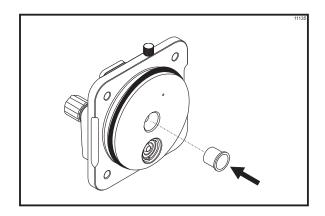


Figure 24

Note: Every three months, discard the o-rings and install new o-rings.

Install the front bearing. **Do not** lubricate the front bearing.





Step 7

Install the freezer door. Position the door on the four studs on the front of the freezing cylinder. Firmly push the door into place. Install the four handscrews on the studs and finger-tighten them equally in a criss-cross pattern to insure that the door is snug. **Do not over-tighten the handscrews.**

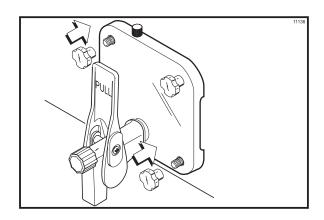


Figure 26

Step 8

Place the o-ring into the groove of the hopper cover.

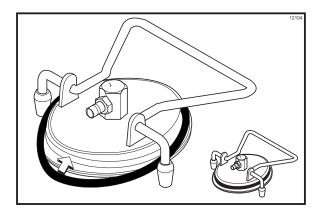
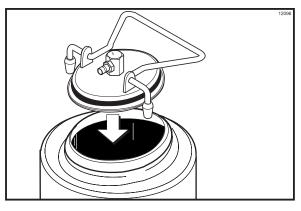


Figure 27

Install the hopper cover. Lock it into place.





Attach the vinyl tube to the pressure relief on the hopper cover. Position the open end of the vinyl tube into the rear drip pan.

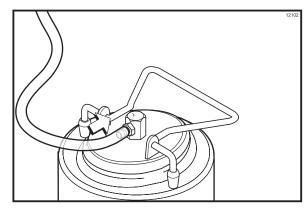


Figure 29

Repeat Steps 1 through 8 for the remaining freezing cylinder(s).

Install the center drip pan through the front of the machine.

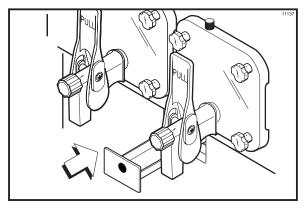


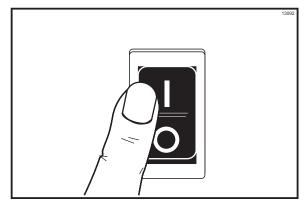
Figure 30

Sanitizing

Note: If a unit is sanitized, and will not be used for an extended period of time, clean water should be used to flush all sanitizer from the lines prior to storage of the unit. Upon return to service, the unit must be sanitized prior to use.

Step 1

Open the lighted display door. Remove the hood and the side panels to gain access to the hoppers. Place the control switch in the ON position.





Step 2

Prepare two gallons (7.6 liters) of an approved 100 PPM sanitizing solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTUR-ER'S SPECIFICATIONS. **IMPORTANT: Make sure the sanitizer is completely dissolved.**

If your freezer uses Bag in Box syrup, follow steps 3 through 5. If your freezer uses syrup tanks, follow the instructions on page 5.

Step 3

Bag in Box Units Only: Using an empty bag of syrup, cut the syrup line connection from the end of the bag.

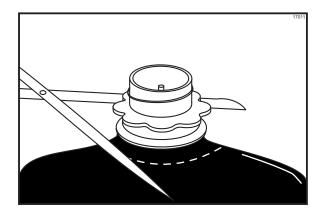


Figure 32

Step 4

Connect the syrup line to the syrup connection that was cut from the syrup bag.

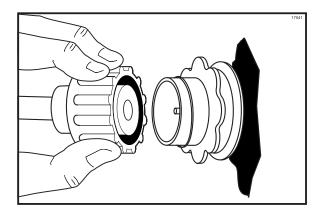
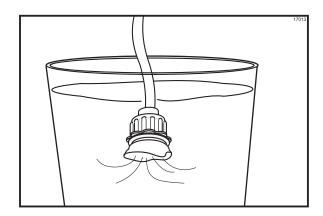


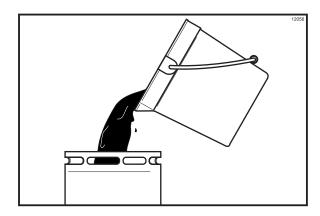
Figure 33

With the bag connector attached to the syrup line, place the syrup line into the pail of sanitizing solution.





Replace Steps 3 - 5 for Syrup Tank Units: Pour the solution into a clean, empty syrup tank. Place the syrup tank cover in position. Remove the CO_2 line and syrup line number one from the syrup tank for freezing cylinder number one. Connect these lines to the spare syrup tank filled with sanitizing solution.





Step 6

Press the PRIME key. This will cause the sanitizing solution to flow through the lines and into the mix hopper.

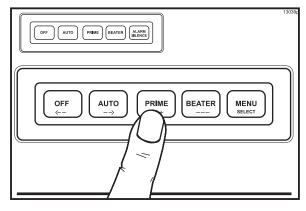


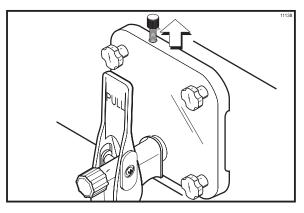
Figure 36

Step 7

Place a pail beneath the sampling valve which is located behind the front drip tray. Slowly open the sampling valve and allow sanitizer to flow through this line and into the pail. After approximately 1/2 gallon of sanitizer has been dispensed, close the valve.

Step 8

Raise the prime plug only enough to allow a slight hissing sound. Place an empty pail under the door spout. When sanitizing solution begins to exit the relief port opening in the freezer door, lower the prime plug. Press the OFF key.





Step 9

Prepare two gallons (7.6 liters) of an approved 100 PPM sanitizing solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTUR-ER'S SPECIFICATIONS.

With the pail beneath the door spout, open the draw valve and relieve all pressure from the freezing cylinder. Remove the hopper cover. Slowly pour the two gallons (7.6 liters) of sanitizing solution into the mix hopper until the hopper becomes 1/4 full of sanitizing solution.

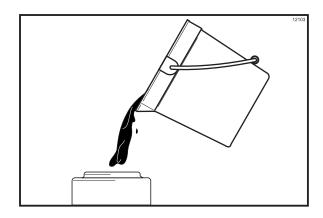


Figure 38

Step 11

With the brushes provided, brush-clean the mix hopper, mix inlet hole, mix level float switch, product fitting, CO_2 fitting and mix feed tube. Use caution when cleaning the float switch so as not to damage it.

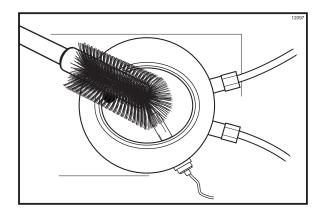


Figure 39

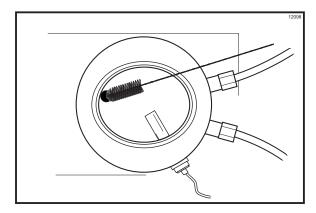


Figure 40

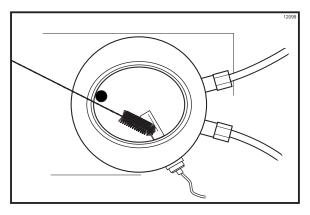


Figure 41

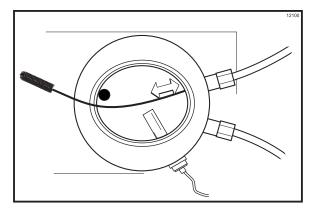
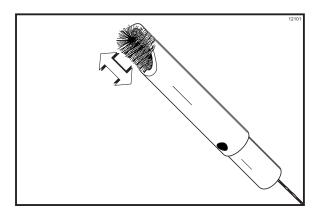


Figure 42





Install the mix feed tube into the mix inlet hole in the bottom of the mix hopper.

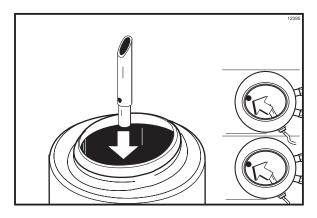


Figure 44

Step 13

Sanitize and install the hopper cover. Lock the cover into place. Attach the vinyl tube to the pressure relief valve on the hopper cover. Position the open end of the vinyl tube into the rear drip pan.

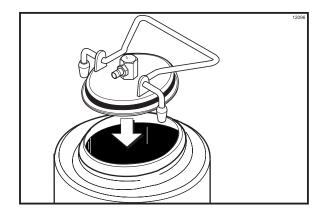


Figure 45

Step 14

Press the BEATER key. Agitate the solution in the freezing cylinder for five minutes.

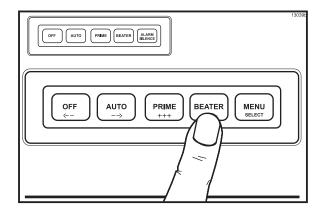


Figure 46

Step 15

With a pail beneath the door spout, open the draw valve and drain all the solution from the mix hopper and the freezing cylinder. Press the OFF key and close the draw valve.

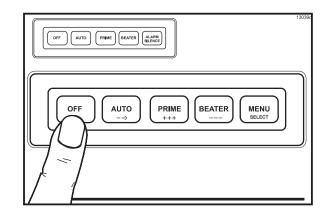


Figure 47

Step 16

Disconnect the syrup connector in the sanitizing solution.

Repeat Steps 2 through 14 for the remaining freezing cylinder(s).

Step 17

Remove the right side panel and install the rear white drip pan.

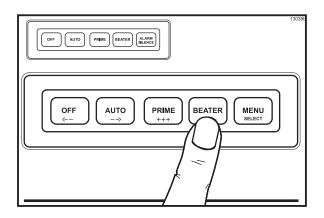
Priming/Brixing

Step 1

Connect the syrup line to the syrup tank (or the Bag in Box).

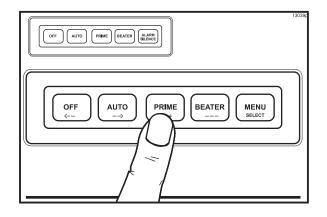
Step 2

Press the BEATER key to pressurize the freezing cylinder.





After three minutes, press the PRIME key. This will cause the product to flow to the mix hopper.





Step 3

Raise the prime plug enough to allow a slight hissing sound.

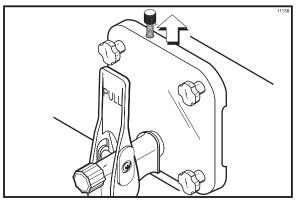


Figure 50

Note: The pressure in the freezing cylinder should be relieved very slowly.

Step 4

Slowly open the syrup sampling valve and let it run into a bucket until all the sanitizer is removed and full strength product is flowing. Do not open the valve so much that the syrup line to the hopper is drained.

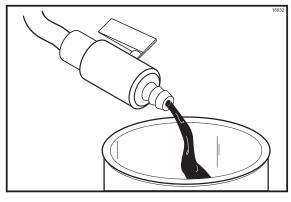


Figure 51

Brix is the ratio of syrup to water which will directly affect the quality and taste of the product. Brixing should be done before priming the freezer and when a change in syrup flavor has been made. Allow the product to flow over the refractometer. The brix reading should register 13 to 14. A reading higher than this would cause a darker, richer product. The refrigeration system would have to run longer to freeze this excess syrup. A reading lower than this could cause a freeze-up in the freezing cylinder because of the excess water.

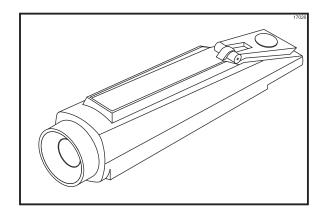


Figure 52

To adjust the brix, turn the adjustment screw located in the service panel. Clockwise adjustments increase the amount of syrup to water, and counterclockwise adjustments decrease the amount of syrup to water. Adjust the screw in small increments and check the brix again.

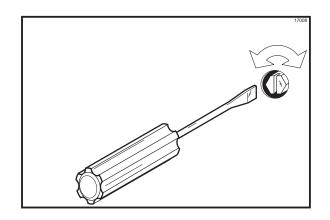


Figure 53

Repeat this step until a correct brix reading is registered.

Step 5

Once the proper brix has been achieved, close the sampling valve. Install the front drip tray and the splash shield on the front of the freezer.

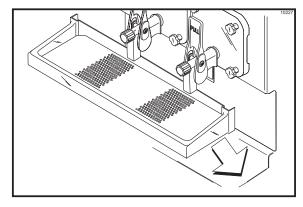


Figure 54

Step 6

With a pail beneath the door spout, press the BEATER key. Open the draw valve and drain the freezing cylinder. Close the draw valve. After three minutes, press the PRIME key. This will cause the product to flow to the mix hopper.

Step 7

Hold a large cup under the pressure relief port exit of the door, until the liquid level (not foam) reaches the pressure relief port. Lower the prime plug. Press the OFF key.

Note: A large amount of foam indicates that the prime plug was raised too high.

Repeat Steps 1 through 7 for the remaining freezing cylinder(s).

Step 8

To place the freezing cylinder in the AUTO mode, press the AUTO key. When the unit cycles off, the product will be at serving viscosity.

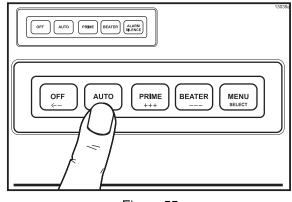


Figure 55

Repeat this step for the remaining freezing cylinder(s).

Step 9

Replace the side panels and close the lighted display. Install the hood in position on top of the freezer.

90 Day Closing Procedure

We recommend that the machine be completely disassembled and cleaned at least every ninety days using the following procedures.



ALWAYS FOLLOW LOCAL HEALTH CODES

To disassemble a freezer, the following items will be needed:

- Two cleaning pails
- Necessary brushes (provided with freezer)
- Cleaner
- Single service towels

Draining Product From the Freezing Cylinder

Step 1

Press the BEATER key. This will allow the beater to operate and CO_2 pressure will be maintained to push the product from the freezing cylinder. Open the draw valve and drain the product from the machine until the CO_2 begins to jet.

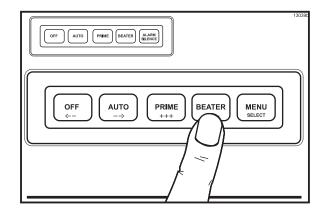


Figure 56

Step 2

When all the product has been drained from the mix hopper and the freezing cylinder, close the draw valve and press the OFF key. Discard this product.

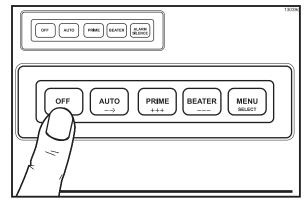


Figure 57

Repeat Steps 1 and 2 for the remaining freezing cylinder(s).

Cleaning

Step 1

Open the lighted display door from the front of the machine. Remove the hood and side panels to gain access to the hoppers.

Step 2

Prepare two gallons (7.6 liters) of an approved cleaning solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFI-CATIONS.

Important: Make sure the cleaner is completely dissolved.

Step 3

Pour the solution into a clean, empty bucket. Place the syrup line with old syrup connection into the bucket of sanitizer.

Step 4

Press the PRIME key. This will cause the cleaning solution to flow through the lines and into the mix hopper.

Step 5

Remove the front drip tray. Place a pail beneath the sampling valve located behind the front drip tray. Slowly open the sampling valve and allow cleaner to flow through this line and out into the pail. After approximately 1/2 gallon of cleaner has been dispensed, close the valve.

Step 6

Raise the prime plug. Place an empty pail under the door spout. When cleaning solution begins to exit the relief port opening in the freezer door, lower the prime plug. Press the OFF key. Open the draw valve and relieve all pressure from the freezing cylinder. Remove the hopper cover. Remove the mix feed tube and take it to the sink for further cleaning. Close the prime plug.

Step 7

Prepare two gallons (7.6 liters) of an approved cleaning solution (example: Kay-5[®]). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 8

Slowly pour two gallons (7.6 liters) of cleaning solution into the mix hopper until the hopper becomes 1/4 full of cleaning solution.

Step 9

With the brushes provided, brush-clean the mix hopper, mix inlet hole, mix level float switch, product fitting, and CO_2 fitting. Use caution when cleaning the float switch. Failure to do so will cause damage to the component.

Step 10

Clean and install the hopper cover. Lock the cover into place. Attach the vinyl tube to the pressure relief valve on the hopper cover. Position the open end of the vinyl tube into the rear drip pan.

Step 11

Press the BEATER key to agitate the solution in the freezing cylinder.

Step 12

With a pail beneath the door spout, open the draw valve and drain all the solution from the mix hopper and the freezing cylinder. Press the OFF key and close the draw valve.

Step 13

Disconnect the syrup connector.

Repeat Steps 2 through 13 for the remaining freezing cylinder(s).

Disassembly

Step 1

Be sure the control switch is in the OFF position. Open the draw valves to make sure all pressure has been relieved.

Step 2

Raise the prime plug. Leave the bleed port open when removing the freezer door to insure that all pressure is relieved from the freezing cylinder.

Step 3

Remove the following parts from the freezer and take them to the sink for brush-cleaning: handscrews, freezer doors, beater assemblies and scraper blades, drive shafts, hopper covers, front drip tray, splash shield.

Brush Cleaning

Step 1

Prepare a sink with an approved cleaning solution. USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS (example: Kay-5®). **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. Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2

Return to the freezer with a small amount of cleaning solution. With a single service towel, wipe clean the bearing surface. Brush-clean the rear shell bearings at the back of the freezing cylinders with the black bristle brush.

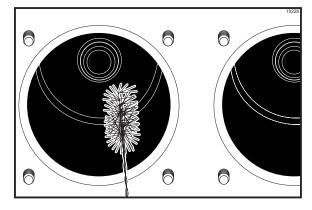


Figure 58

Step 3

Remove the rear drip pan. (Does not apply to the Model 349.)

Step 4

Remove the right side panel and take the rear, white drip pan to the sink for further cleaning.

Step 5

Remove the following parts: seals and o-rings from the drive shafts, drive shaft seal bushings from drive shaft seals, caps and springs from freezer doors, screws and draw handle slides from freezer doors, pivot pins from draw valves, draw valve handles from freezer doors, draw valves from freezer doors, o-rings from draw valves, prime plugs from freezer doors, o-rings from prime plugs, o-rings and front bearings from freezer doors, o-rings from mix hopper covers.

Discard all o-rings and replace them with new ones.

Note: To remove o-rings, use a single service towel to grasp the o-ring. Apply pressure in an upward direction until the o-ring pops out of its groove. With the other hand, push the top of the o-ring forward. It will roll out of the groove and can be easily removed. If there is more than one o-ring to be removed, always remove the rear o-ring first. This will allow the o-ring to slide over the forward rings without falling into the open grooves.

Step 6

Using a single service towel, wipe the lubricant off the parts. Brush-clean all disassembled parts in the cleaning solution. Make sure all lubricant and syrup is removed. Place all the cleaned parts on a clean, dry surface to air-dry.

Step 7

Wipe clean all the exterior surfaces of the freezer.

During Cleaning and Sanitizing



ALWAYS FOLLOW LOCAL HEALTH CODES

Cleaning and sanitizing schedules are governed by your State or local regulatory agencies and must be followed accordingly. The following check points should be stressed during the cleaning and sanitizing operations.

WE RECOMMEND CLEANING AND SANITIZING EVERY 90 DAYS.

Troubleshooting Bacterial Count

- Thoroughly clean and sanitize the machine regularly, including complete disassembly and brush cleaning.
- 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all product 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. Using a screwdriver and a cloth towel, keep the rear shell bearing and the female hex drive socket clean and free of lubricant and product deposits.
- 6. 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.

- 7. Clean and sanitize the syrup lines regularly to prevent syrup residue build-up that would restrict the proper flow of syrup.
- 8. On a regular basis, take a brix reading to assure a consistent quality product.

Regular Maintenance Checks

- □ 1. Replace scraper blades that are nicked, damaged or worn down.
- 2. Before installing the beater, be certain that the scraper blades are properly attached over the pins.
- Check the rear shell bearing for signs of wear (excessive product leakage from the rear drip pans to the front drip tray).
- □ 4. Dispose of o-rings or 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. Check the condenser(s) for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the machine. Condensers should be cleaned **monthly** by removing the poly-flo filter and cleaning it. Remove the service panel and side panels to expose the condenser(s). Never use screwdrivers or other metal probes to clean between the fins.

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.

Your local Taylor Distributor can perform this service for you.

Wrap detachable parts of the freezer such as the beater, the scraper blades, the drive shaft, and the freezer door. Place these parts 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.

Note: 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.

	PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
1.	Product is too stiff.	a. Too much water to syrup ratio. Improper brix adjustment.	a. Adjust the brix accordingly.	33
		 b. Consistency control needs adjustment. 	b. Contact a service technician.	
		c. Torque coupling bound in WARM position.	c. Contact a service technician.	
2.	Product is too soft.	a. Freezer in a defrost cycle.	a. Wait for defrost cycle to end.	
		 b. Consistency control needs adjustment. 	b. Contact a service technician.	
		c. Torque coupling bound in COLD position.	c. Contact a service technician.	
		d. Broken springs in torque coupling.	d. Contact a service technician.	
	No product is being dispensed.	a. Product frozen-up in freezing cylinder.	a. See problem No. 1.	
	Freezer will not operate in the BEATER or AUTO mode.	a. Unit is unplugged.	a. Check the plug at wall receptacle.	
		b. Blown fuse, or the circuit breaker is off.	b. Replace the fuse or turn the breaker on.	
		c. Beater motor is out on overload. Check fault description screen.	c. Allow the motor to cool. Press the AUTO key. Call a service technician if the beater motor goes out on overload again.	18
	No compressor operation in the AUTO mode.	a. Beater motor is out on overload. Check the fault description screen.	a. Allow the motor to cool. Press the AUTO key. Call a service technician if the beater motor goes out on overload again.	18
		 b. The torque coupling is bound in the COLD position. 	b. Contact a service technician.	
		c. Condenser dirty, A/C.	c. Clean condenser monthly.	38
		d. Water supply off, W/C.	d. Turn the water on.	

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
 Unable to remove the drive shaft from the rear shell bearing. 	a. Rounded corners of hex end of drive shaft, drive coupling, or both.	a. Replace the drive shaft, or call a service technician to replace the direct drive unit.	
	b. Lubrication of hex end of drive shaft.	 b. Do not lubricate the hex end. If necessary, contact a service technician for removal. 	24
7. Excessive loss of CO ₂ .	a. Leak in the CO_2 system.	a. Contact a service technician.	
8. Leakage from rear drip pan(s) into front drip tray.	a. Seal or o-ring on drive shaft is worn, missing, or incorrectly installed.	a. Replace or install correctly on drive shaft.	24
	b. Worn rear shell bearing.	 b. Contact a service technician to replace rear shell bearing. 	
9. Excessive mix leakage from door spout.	a. Inadequate lubrication of draw valve o-rings.	a. Lubricate properly.	26
	 b. Wrong type lubricant on draw valve o-rings. 	 b. Use food grade lubricant (example: Taylor Lube HP). 	24
	c. Worn or missing draw valve o-rings.	c. Replace or install o-rings on draw valve.	26/ 42
10. Unable to adjust brix.	a. Syrup lines need to be cleaned and sanitized.	a. Clean and sanitize syrup lines.	
	b. Blocked flow control.	b. Contact a service technician.	
11. Lack of syrup being supplied to machine.	a. Loss of CO ₂ to propel syrup.	a. Contact a service technician.	
	b. Clogged or kinked syrup lines.	 b. Sanitize syrup lines regularly. If kinked, repair or replace. 	
12. Product does not enter mix hopper.	a. Machine is not in the AUTO or PRIME mode.	a. Place the machine in the AUTO or PRIME mode.	34
	b. The mix level float switch is inoperative.	b. Contact a service technician.	
 Carbonated water or sulfuric aroma is evident in the faucet or sewage system. 	a. Faulty check valve in carbonation system.	a. Call a service technician to replace the check valve.	

PART DESCRIPTION	EVERY 3 MONTHS	EVERY 6 MONTHS	ANNUALLY
Scraper Blade		X	Minimum
Drive Shaft Seal	Х		
Drive Shaft O-Ring	Х		
Freezer Door O-Ring	X		
Draw Valve O-Ring	X		
Door Spout O-Ring	X		
Hopper Cover O-Ring	X		
Front Bearing	X		
Prime Plug O-Ring	X		
Black Bristle Brush, 1" x 2"		Inspect & Replace if Necessary	Minimum
Double Ended Brush		Inspect & Replace if Necessary	Minimum
White Bristle Brush, 1-1/2" x 2"		Inspect & Replace if Necessary	Minimum
White Bristle Brush, 3" x 7"		Inspect & Replace if Necessary	Minimum

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 Shakes	Refrigeration compressor (except service valve)	Five (5) years
Smoothies	Beater motors	Two (2) years
Frozen Beverage	Beater drive gear	Two (2) years
Batch Desserts	Printed circuit boards and Softech controls beginning with serial number H8024200	Two (2) years
	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 **<u>not</u>** 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.

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.

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^{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.