Service Manual

All technical data, pictures and drawings contained in this manual are not binding on the manufacturer nor can the manufacturer be held liable for any to the machine in whole or in part.

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SECTION 1
INTRODUCTION

1.1 USE OF THIS MANUAL
Your service manual has been prepared as a guide to help you get the most from your Frozen Drink Machine. It contains information about the installation and operation of your machine. The manual also contains instructions for service and care. The manual should be read carefully by the operator of the Frozen Drink Machine to become familiar with the machine and the correct operating procedures described within. The following notations are used throughout the manual to bring important facts to your attention:

“Warning” - This notation is used whenever the personal safety of the operator(s) might be jeopardized, if procedures are not followed correctly.

**WARNING**
DO NOT INSERT ANY OBJECTS INTO CYLINDER OR HOPPER WHILE MACHINE IS RUNNING!

“Caution” - This notation is used whenever the machine or related equipment may receive or cause damage if not observed.

**CAUTION**
RISK OF ELECTRICAL SHOCK. DISCONNECT POWER BEFORE SERVICING UNIT.

**CAUTION**
MOVING PARTS DO NOT OPERATE UNIT WITH PANELS REMOVED

“Note” - This notation is used to bring important information to your attention that will enhance the performance of your machine.

1.2 PRELIMINARY INSPECTION
Unpack the unit as soon as possible upon its arrival. Check the entire machine and its contents for possible shipping damage. Note damage, if any, and notify your carrier immediately. Frosty Factory of America cannot be responsible for damaged merchandise caused by shipping. Inventory the accessories to be sure they include the items you specified on your order. Normally the accessories include:

- Beater Bar
- Drip Tray
- Faceplate
- Faceplate Knobs
- Hopper Cover
- Petro-Gel
- Sanitizer
- Spare Faucet O-Rings
- Warranty Card
- Wire Brushes
- Water Hoses
- Manual

Water Hose
1.3 DESCRIPTION

Stainless Steel Cabinet
Stainless Steel Cylinder
Faceplate Knobs F0262
Clear Plastic Faceplate C6501
Drip Tube
Drip Tray F0195
Lighted Flavor Sign
Beater Bar C6527
Scraper Blade (not visible) C6510F
Faucet Assembly C6513
Fill Indicator Light F0207
Control Switches Top F0416 Bottom F0417

1.4 DIMENSIONS

Legs are 4” high.

Allow 6” behind unit for air circulation, water hoses or remote connections.

16.5” (42cm)
(72cm)
28.5”

26” (66 cm)
24.5” (61cm)
29¼” (74.3cm)
2.1 SAFETY PRECAUTIONS
Do not attempt to operate your Frozen Drink Machine until the safety precautions and operating instructions in this manual are read completely and are thoroughly understood.

Take notice of all warning labels on your machine. The labels have been put there to inform and protect persons operating or servicing your equipment. Care must be taken not to damage or destroy labels during installation and servicing. The labels have been designed to withstand routine cleaning and handling. Damaged or missing labels should be promptly replaced with approved labels from Frosty Factory of America Inc.

2.2 INSTALLATION
Placing your Frozen Drink Machine in a highly visible area will enhance sales. A suitable station will be able to support 250 pounds and will have a dedicated electrical outlet.

CAUTION: Do not attempt to share the dedicated electrical outlet with any other appliance; this will cause the circuit breaker to trip.

2. The unit must be placed on a sturdy platform able to hold the weight of the machine when full of product. Level the machine by turning the adjustable part of the leg. The machine must be level front to back as well as left to right.

NOTE: Locating the unit in direct sunlight, near cooking facilities or any high heat area will reduce the performance of your machine.

CAUTION: Extended operations under severe heat condition can damage the cooling system.

NOTE: Establishments that serve beverages from frozen drink machines are responsible for providing the necessary facilities for cleaning and sanitizing their food service equipment.

3. Place the three-position switch in the OFF position (center).
4. Connect the power cord. The unit must be connected to a properly grounded receptacle. The electrical cord furnished as part of the machine has a three or four prong grounding type plug. The use of an extension cord is not recommended. If one must be used, consult the national and local electrical codes. Do not use an adapter to get around grounding requirements.

WARNING: Do not attempt to alter the electrical plug. Serious injury or electrocution may result.

Notice: Your receptacle should look like one of these and match your unit voltage, amps on the data plate.

5. Install the drip tray, cover, beater bar and faceplate assemblies on the machine.
3.1 MACHINE CONTROLS

Two selector switches located on the front of the machine control operation of the Frozen Drink Machine. Selection of the right (snowflake) position, with both switches, will schedule the machine for normal operation. The compressor cycle is protected by a time delay circuit, which will engage the compressor approximately 2 minutes after normal operation is initiated. A red fill light located above the switches will illuminate when the level of mix is low in the hopper. A thermostat knob on the electrical control box of your machine is set at the factory and should not be changed or adjusted except by an authorized service repairman.

Refer to the information below for functions available with various combinations of switch positions.

**Normal Operation** – Both switches on snowflake. Machine will freeze mix to provide frozen beverage as desired.

**Standby/Overnight Operation** – Top switch on snowflake, Bottom switch on thermometer symbol. Machine will automatically come on whenever necessary to keep mix cooled to 5°C/40°F - used primarily for overnight storage of mix remaining in the machine.

**Cleaning Operation** - The drive motor will run in the faucet position to allow a stirring action of the rinse water while cleaning.

**Off** - The hand symbol is the recognized international symbol for “stop”. In this position, the machine will not run.
3.2 THE PRODUCT YOU SERVE

The Frozen Drink Machine will produce a fine grain, semi-frozen slush when the proper mix is used. When measured with a refractometer, the proper mix will measure 13 to 18 “brix”. Too little sugar in the mix will cause larger ice crystals to form. Too much sugar will lengthen the freeze time.

CAUTION: Any attempt to freeze water only will cause severe damage to your machine.

NOTE: Do not add sugar directly into the machine, as some of it will settle and result in an improper mix.

FRUIT JUICES with at least 32 grams of sugar per 8-oz. serving will freeze well in the Frozen Drink Machine. They will remain stable during the freezing process while retaining their natural color and flavor.

NEUTRAL BASES are used to produce a neutral frozen cocktail base. A wide variety of different drinks can be created from one neutral base by the addition of various flavors. Most brands of neutral bases specify a mixture of four parts water to one part neutral base. However, before use in the Frozen Drink Machine, be sure the “brix” level is 13 to 18.

The amount of ALCOHOL in the recipe will affect the freezing process. As a rule of thumb, for the mix to freeze properly, the recipe should contain no more than 25 percent alcohol.

Suggestion for optimum production and sales:
1) Use the finest ingredients available.
2) Test the product before serving it.
3) Keep the machine clean - ALWAYS!

3.3 PRODUCT CONSISTENCY

An exclusive torque sensing mechanism developed by Frosty Factory of America will produce consistent texture and thickness of your frozen beverages. The adjustment screw (accessible through the left side panel as you face the machine front) is pre-set at the factory. Various mix consistencies can be achieved by turning the screw clockwise (thicker drink) or counter clockwise (thinner drink). Turn the screw one full turn then allow enough time to lapse (about three minutes) for the compressor to complete a cycle before sampling. Continue this process until desired result is obtained.

TCC screw is visible through opening at rear of cabinet (as shown). Use straight slot screwdriver to adjust. Clockwise thickens beverage, counterclockwise makes beverage thinner.
### 3.4 START UP

**NOTICE:** Before start-up, be sure the machine has been sanitized in accordance with procedures set forth in the cleaning section of this manual.

Pour the mix into the hopper and allow it to drain into the cylinder.

When the cylinder is full and the hopper is filled to one inch from the top, the machine is ready to run. Turn on by selecting the “right” (snowflake) position of both switches on the front panel.

**NOTICE:** Always add mix as soon as the red, level indicator light, above the switches, comes on to prevent air from entering the cylinder.

**CAUTION:** Allowing air into the cylinder will cause a rocking motion of the machine. If the mix is not yet frozen the air can escape by turning the machine off for 20-30 seconds.

**WARNING:** Never under any circumstances, place your finger or any other object into the hopper or feed hole while the machine is in operation. Serious personal injury may occur.

### 3.5 FREEZE TIMES

The freeze time on the Model 137W is approximately 30 minutes. Times are as above when ideal conditions are met. Such as, pre-cooled starting mix temperature of 40 degrees and room temperature at 80 degrees. The time will increase if the machine in not properly ventilated or is operated in a hot environment. Recipes with high alcohol or high sugar content will naturally take a little longer.
4.1 CLEANING

The following cleaning procedure should be used for initial start-up and on an as needed basis to comply with the minimum cleaning and sanitizing frequencies specified by the Federal, state or local regulatory agency having jurisdiction.

1. Turn the machine to the off, “hand” position, then remove hopper cover.
2. If applicable, drain mix into a sanitized container as per local health code procedures.
3. Pour two gallons of cool water (75°F) into the hopper. Place upper switch in “faucet” position to let the machine stir for 2 minutes. Turn machine “OFF”, drain and dispose of the rinse water. Repeat until water is clear.
4. Remove the knobs from the faceplate by turning in a counter clockwise direction. Carefully pull the faceplate straight away from the front of the machine. Remove the beater bar assembly from the cylinder. Then slide the spring seal off the rear of the beater bar. Unscrew white faucet cap to remove faucet plunger from faucet body. Remove all o-rings for cleaning.

Note: Do not unscrew faucet body from faceplate to clean. (leak free service after disturbing the Teflon seal cannot be assured).

5. All parts removed during the above steps plus the drip tray and insert can now be cleaned in your warm (100°F) sanitized solution. Rinse all parts in clean rinse water and allow to air-dry before re-assembly.
6. Use cloth and cleaning solution to wipe any residue from cylinder and hopper.
7. Re-assemble as shown in section 4.2 (next page).

8. Mix two gallons of warm water (approximately 100°F) with two ounces of sanitizing powder to achieve 100 parts per million (PPM) sanitizing solution.
9. Pour the sanitizing solution into the hopper.
10. Place upper switch in “faucet” position. Let solution stir for 5 minutes. Turn upper switch “OFF” (hand) position. **Drain all solution.**
   
   Note: Do not leave the solution in the machine for more than 5 minutes.
11. Pour product into hopper. Replace hopper cover. Place both switches in right (snowflake) position when ready to freeze product.
4.2 RE-ASSEMBLY

Using Petro-Gel, (F0298) lightly lubricate the longer end of the beater shaft.

Slide beater seal (F0355) onto the shaft with the spring end toward the beater bar.

The **black carbon ring** must be facing the **end** of the beater bar so it will be in direct contact with the white ceramic seal inside the cylinder when the beater bar is re-installed.

Carefully insert the large beater bar C6527 (with beater seal) into the hole at the rear of the cylinder and **rotate until it fully engages** into the drive plate.

Re-install the large **faceplate** on the machine. First place the faceplate **bushing** onto the beater shaft. Then slide face plate onto the four studs. Install the faceplate knobs and tighten evenly until the faceplate O-ring is snug against the cylinder.
4.3 PREVENTATIVE MAINTENANCE
It is recommended that a maintenance schedule be followed to keep the machine clean and operating properly.

WARNING: Never attempt to repair or perform maintenance on machine until the main electrical power has been disconnected

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

B. WEEKLY
(1) Check O-rings and rear seal for excessive wear and replace if necessary.

(2) Clean the drip tray and front of the freezer with a mild soap solution.

4.4 EXTENDED STORAGE
Refer to the following steps for storage of the machine over any long period of shutdown time:
(1) Turn the three position switch to the OFF (center) position.

(2) Disconnect (unplug) from the electrical supply source.

(3) Clean thoroughly with a warm detergent all parts that come in contact with the mix. Rinse in clean water and dry all parts. Do not sanitize. Frozen Drink Machine parts can be left disassembled until ready for use.

   NOTE: Do not let the cleaning solution stand in the hopper or in the cylinder during the shutdown period.

(4) Blow water out of the water condenser while manually holding the water valve open.
4.5 FACEPLATE/FAUCET ASSEMBLY

<table>
<thead>
<tr>
<th>Face Plate/Faucet Assembly</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Face plate assembly with bushing</td>
<td>C6501</td>
</tr>
<tr>
<td>B. Faucet assembly with nut</td>
<td>C6513</td>
</tr>
<tr>
<td>C. Faucet body (only)</td>
<td>C6513B</td>
</tr>
<tr>
<td>D. Plunger assembly</td>
<td>C6513P</td>
</tr>
</tbody>
</table>

Plunger assembly C6513P

Knob F0264

O-Rings F0491

Face Plate C6501

O-Ring F0374

F.P. Bushing C6520

Faucet Body C6513B

Faucet Nut F0197

Add Teflon Tape
4.5 FACEPLATE / FAUCET ASSEMBLY (continued)

Applying Teflon Tape to Faucet Body before installation

Align Faucet Assembly opening to bottom of faceplate then tighten nut

Install O-rings onto plunger

Lubricating O-rings with Petro-Gel

Installing Plunger Assembly into Faucet body

Installing large Faceplate onto front of Machine.
4.6 FLOAT SWITCH ASSEMBLY
1. The float switch assembly consists of: Post switch, Float, Float clip, O-Ring and Nut.
2. There are two dots on one end of the float. When assembled the two dots must be on the top end of the float.
3. Place O-Ring so that it will be inside the hopper (sink bottom) when finished.

![Diagram of Float Switch Assembly]

4.7 THERMOSTAT SYSTEM-STAND-BY

L1

2 pos. switch

To upper Switch

T-Stat

F0401

*Thermostat only works when the switches are in the “Stand-by” position.*
4.8 USING THE CLEANING BRUSHES

Clean ceramic ring with warm, wet rag. Remove any dried product from center of ceramic ring.

Insert long brush into drip tube

Push brush all the way in until it can be seen in the middle of the ceramic ring
4.9 BEATER BAR SEAL INSTALLATION

1. Using Petro-Gel (or other sanitary food grade lubricant), lightly lubricate the longer end of the beater shaft. Slide beater seal onto the shaft with the spring end toward the beater bar. (Refer to diagram in this section of your manual or on top of the hopper cover for correct installation of spring seal).

2. The black carbon ring must be facing the end of the beater bar so it will be in direct contact with the white ceramic seal inside the cylinder when the beater bar is re-installed. **This is a dry seal and must be kept free of lubricants.** Lube the beater bar shaft ONLY!

3. The beater seal may become damaged if the beater shaft is not lubricated before installation of the beater seal.

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**Diagram: Beater Bar Seal Assembly**

- Beater bar shaft
- Beater seal assembled and installed
- Beater bar assembly
- Rear wall of cylinder
- Ceramic seal inside cylinder (must be grease free)
- Carbon seal face (Must be grease free)
- Rubber seal
- Spring
- Spring cup
- Properly installed seal assembly
- Damaged seal. Do not re-use!
- Seal with normal wear.
4.10 BEATER BAR AND SPRING INSTALLATION

Step 1: Attach scraper blade spring F6512 as shown.

Step 2: Insert rod end into beater bar frame.

Step 3: Tap scraper blade rod until it is centered.

Step 4: Apply a small dab of Petro-Gel F0298.

Step 5: Install spring seal F0355.

Step 6: Squeeze and release spring. Be sure the spring returns to normal before installing into machine.

Step 7: Install large beater bar assembly C6527 into cylinder.

Step 8: Install large faceplate C6501 onto machine.
**4.11 CERAMIC SEAL REMOVAL AND RE-INSTALLATION**

*Note: Use this procedure only when necessary to replace a damaged ceramic seal*

**To remove old seal:**

1. Press the “Push button” on the puller tool to release the ball bearings.
2. Insert “T” handle through ceramic seal at rear of cylinder.
3. Release “Push button”.
4. Quickly pull “T” handle straight out and the ceramic seal will remain on the “T” handle as shown below.

**To install new seal:**

1. Apply silicone around rear, **grooved surface**, of ceramic seal. (Put lubricant on the smooth side of the seal to prevent the silicone from sticking.)
2. Press seal into hole at rear of cylinder. Silicone coated surface goes in first.
3. Gently tap ceramic ring with wood or plastic rod (DO NOT USE METAL!) until the seal has completely bottomed out.
4. The smooth surface of the ceramic seal must be completely clean in order to provide proper sealing when the beater bar with spring seal is installed.
5. If possible allow at least **four hours drying time** for silicone to cure before filling machine with product.
6. Fill machine with product and check for leaks.
7. Machine is ready to run.
Typical Water cooled units

Compressor (Comp): Red, Black, White
Microswitch (Microswitch): Red, Black, White
Contactor (Contactor): Red, Black

Start Cap / Run Cap

Start Cap: 1, 2
Run Cap: 3, 4, 5

3 Pos. Switch: Blue, Red, Gray
2 Pos. Switch: Black, Gray

To Drive Motor: Black
To Transformer: Black
During Transformer: Black on L1

Motor: 24V to HP Switch

3 Pos. Switch:
- Blue to Switch 2
- Red to Switch 1
- White to Brown, Transistor
- Black to L1 @ Contactor

2 Pos. Switch:
- Black to #5 on Comp. Relay
- White from 24V Transistor
- Power Cord L1: Black from Switch

Timer:
- Blue-Switch 2
- Red-Switch 1
- White to Brown, Transistor
- Black to L1 @ Contactor

Microswitch:
- Purple to T-Stat
- Gray to T-Stat
5.2 CONTACTOR & TIMER

Frosty Factory Models

Contactor F0478

Adjustable timer F4998

Load 1 Amp Max

Input

Micro-switch F0346

High Pressure Switch
Water cooled F0660
Air cooled F0661

Multi volt transformer F4995
115 volt transformer F4997

Transformer

Primary Voltage

From SW2 term. Block

24V Blue

From L2 terminal
To increase belt tension, loosen the 4 motor mount screws and pry the entire motor assembly up until the belt is snug. Re-tighten the motor mount screws.

To test the belt tension, press on the belt at the mid-point (arrow). The belt should move easily for the first ½ inch. It should be difficult to press the belt more than ½ inch.

To align the drive pulley with the flywheel, loosen the Allen screw on the drive pulley and nudge the pulley forward or back as necessary.
1. U-Nuts (2) 5/16-18
2. Microswitch Friction Plate F tba
3. Microswitch F0346
4. Motor (ONLY) F732
5. Motor Assembly C732
   (Includes items: 1,2,3,4,6,9.13.
6. Motor Stop Bracket F1203
7. Tension Spring Lg F0469
8. Spring Adjustment Bracket F4202A
9. Motor Bearing F0738
10. Lock nuts (2) ¼-20
11. TCC Adjustment Screw ½-20x3”
12. Screw, Mtr mt. 5/16"x 18 phs
13. Motor Pulley F0471
5.5 SHIM PLACEMENT

1. Disconnect power before servicing unit.
2. Insert alignment shaft into cylinder where the beater bar is normally installed.
3. Install Faceplate assembly and 2 knobs to hold faceplate on.
4. Turn flywheel slowly and observe spacing between the alignment shaft and the ceramic ring at the rear of the cylinder.
5. If the shaft appears to be touching the ceramic ring at the top, place a shim between the bearing plate and the spacer block. (see drawing on next page)

Alignment Shaft & Ceramic Ring Positions, as viewed from the Front of the

Example of Shaft touching at upper position.

Proper alignment

Ceramic ring
Shaft

Place shim at upper shim position.

Example of alignment After shim placement

Example of upper shim placement as viewed from the back of the machine

Shim

Upper shim position
Stud

Left shim position

Spacer Block C2308

Right shim position

Lower shim position
### 5.6 REAR CYLINDER ASSEMBLY

**Belt Driven Models**

Model Numbers: 137, 237, 232, 289, 235R

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**ITEM NUMBER** | **DESCRIPTION**
---|---
1. F0811 | Fill Light Switch
2. F0355* | Ceramic Seal
3. C2308 | Spacer Block
4. C2306 | Bearing Plate
5. 5/16-18 | Bearing Plate Nuts
6. F0330 | Large Clip Ring
7. F0267 | Flywheel Bearing
8. F6525 | Flywheel (only)
9. C6525 | Assembly, Flywheel
   (Includes items: 4, 6, 7, 8, 9, 10)
10. F0331 | Small Clip Ring
11. C4403 | Drive Plate
12. 5/16-18x1” | Drive Plate Bolts
13. F2309 | 1/2” Drain Tube (stainless steel)
14. F7057 | Bearing Plate Seal (new 11-2015)

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### Diagram

- **Hopper**
- **Model Numbers**
- **Belt Driven Models**
- **Item Numbers**
- **Description**
- **Shim Placement**

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*Note: Diagram labels and annotations correspond to item numbers in the table.*
5.7 WATER BRACKET ASSEMBLY

(Exploded View)

1. Insert the water bulkhead fitting through the bracket hole.
2. Place the star washer over the threaded portion of the bulkhead fitting.
3. Install the nut onto the threaded portion of the bulkhead fitting.
4. Apply thread tape to the water hose fitting and install into the bulkhead fitting.
   Note: Do not over-tighten the water hose fitting.

Valves automatically open on pressure increase, close on pressure decrease. **Adjustment:** To raise valve opening point, turn adjusting screw, on top of valve, counter-clockwise. To lower operating point, turn clockwise. Opening point of valve should be raised just enough to cause valve to close when compressor is off.
1. Cap Tube .064
2. HP Switch F0660
3. Water Condenser F5548
4. Filter/Dryer F5543
5. Water Valve F5545
6. Compressor F8053 (120v) F8054 (220v)
7. Water Bracket Assembly
8. Service Valves (2)
9. 2 Way access “T”

Water out

Compressor Cord

5.8 TYPICAL PLUMBING ASSEMBLY
SECTION 6
TROUBLESHOOTING

1. **Machine does not run when turned on.**
   A. Be sure that the cord is properly plugged into wall outlet.
   B. Check to reset circuit breaker if necessary.
   C. Be sure that no other appliances are sharing the circuit.
   D. Some units require a magnet in the faceplate in order to operate.

2. **Beater motor starts but compressor doesn’t start.**
   A. Both switches must be in the right (Snowflake) position.
   B. Allow approximately one or two minutes for time delay to respond.
   C. Check that the micro-switch at the drive motor is depressed.
   D. If necessary adjust TCC screw to depress micro-switch.
   E. Check electrical components in junction box.

3. **Mix dripping from drip tube.**
   A. Spring seal on beater bar is dirty or improperly installed. Remove, clean and re-install spring seal assembly according to instructions and diagram on top of the hopper cover.
   B. Ceramic seal (inside the freezing cylinder) is dirty or loose or greasy. Clean ceramic seal. If loose re-install as necessary. Also check that the carbon ring on the seal is not chipped, cracked, dirty or greasy. Replace seal if necessary.

4. **Unit runs but product does not freeze to desired consistency.**
   A. Check recipe for proper amount of sugar.
   B. Check TCC screw, if necessary turn clockwise to increase thickness of drink.
   C. Check unit placement for adequate ventilation. (At least 8” clearance required on all sides.)
   D. Be sure the cylinder is full of mix.
   E. Check that the micro-switch “clicks” at the mid-point of its rocking motion. Adjust as necessary.

5. **Unit runs but produces a loud knocking sound during initial freeze down cycle.**
   A. Cylinder not full. Turn unit off and fill hopper with mix.
   B. Ice build-up. Check recipe for proper amount of sugar.
   C. To clear ice build-up, turn top switch to left (faucet) position until knocking stops then turn switch back to the right (snowflake) position. Repeat as necessary.

6. **Fill light is on when hopper is full of product.**
   A. Remove and re-install float with two dots facing up.
   B. If float is stuck, clean float and stem and re-assemble.

7. **Machine has gentle “rocking” motion.**
   A. Air in cylinder- Turn unit off for about one minute to allow air to escape from cylinder. Cylinder must be full to freeze properly.
   B. Be sure machine is level and all adjustable feet are touching counter top.
8. **No product comes out when faucet handle is pulled while unit is running.**
   A. Frozen product is blocking “feed hole”. **Turn machine off** then clear ice plug from feed hole.
   WARNING: **Never place fingers in the “feed hole” as serious personal injury may occur.**
   B. Mix is frozen solid. Low sugar content, product separation or cylinder not full.

9. **Compressor starts and stops intermittently.**
   A. Check that water supply is turned on.
   B. If the on/off time is 30 seconds or longer, this is normal if product is frozen and no product has been pulled in a while.
   C. If the problem is causing the breaker to trip, check electrical components in junction box.

10. **Unit continues to run when switched to stand-by.**
    A. Remove back panel and reset thermostat. (Turn all the way off then turn all the way on again.)
    B. Mix is still warm (above 40°F)
    C. If problem remains replace thermostat.

11. **Beater bar does not turn.**
    A. Belt is broken. Replace as necessary.
    B. Belt off pulley or loose. Check pulley alignment, re-install and tighten belt.
    C. Mix is frozen solid. See item 8-B.
    D. Drive plate stripped. Replace drive plate
    E. Faulty motor. Replace motor

12. **Mix turns grey or pitting metal in the freezing barrel**
    A. Too much chlorine in sanitizing solution: Follow directions on product package
        To get 100 parts/million chlorine solution. Stir this solution in the machine for 1-2 minutes only. **DO NOT ALLOW SANITIZING SOLUTION TO SIT IN THE MACHINE FOR ANY REASON!!!** If the barrel becomes saturated with chlorine apply chlorine neutralizer as needed to remove (obtain from swimming pool supply store).
# SECTION 7
## SPARE PARTS LIST

Rev. 10/22/09

### 7.0 SPARE PARTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing Plate</td>
<td>C2306</td>
</tr>
<tr>
<td>Bearing, Motor (Obsolete)</td>
<td>F0474</td>
</tr>
<tr>
<td>Bearing, Motor</td>
<td>F0738</td>
</tr>
<tr>
<td>Beater Bar Assembly, Lg.</td>
<td>C6527</td>
</tr>
<tr>
<td>Beater Bar Frame, Lg.</td>
<td>C6509</td>
</tr>
<tr>
<td>Block, Spacer Lg.</td>
<td>C2308</td>
</tr>
<tr>
<td>Brush, Drip Tube, Lg.</td>
<td>F0327</td>
</tr>
<tr>
<td>Bulb, 12” Light</td>
<td>F0539</td>
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WARRANTY

Frosty Factory of America, Inc., the warrantor, providing that the conditions set forth herein are met by the Purchaser-User, warrants to the original purchaser-user that Frosty Factory Frozen Drinks machines, herein referred to as the “unit” is free from defects in factory workmanship and materials. This warranty is for the period of one year on all components of the unit with the exception of the compressor and the evaporator, which has a warranty period of five years. Also excluded are normal maintenance items i.e. O-rings, seals, belts, etc. During the warranty periods, Frosty Factory of America, Inc., agrees to repair or replace (at its option) without cost to purchaser-user except transportation charge any part or parts of said unit proved to the satisfaction of Frosty Factory of America, Inc. to be defective when sold. The warrantor shall not be responsible for any expenses incurred for service or repairs performed by a person or entity other than the Warrantor, unless specifically authorized by the Warrantor, and the repair falls in the 1 year labor warranty period. Past 1 year, service calls or repairs other than those covered by the conditions set forth in this Warranty will be made at the expense of the original Purchaser-User.

This warranty is in lieu of all other warranties, express or implied, including any warranties of merchantability or fitness for a particular use, and releases Frosty Factory of America, Inc. from all other obligations whatever. Frosty Factory of America, Inc. neither assumes nor authorizes any other person to assume from the Warrantor any other liability in connection with the identified unit. This warranty is not assignable. “Original Purchaser-User” shall mean only such person or entity for which the identified unit is originally purchased and installed. Return of the OWNER’S WARRANTY CARD to the Warrantor is required for warranty coverage. If not received by the warrantor, warranty coverage begins the date of shipment.

All inquiries to our Factory about unit must be accompanied by the unit serial number.

This warranty does not apply to damage to said unit occurring in transit, or damage caused by unauthorized alterations, fire, accidents, artificially generated electric currents, Acts of God, misuse or abuse, or by any other cause whatsoever other than defects in Factory workmanship or material. This warranty does not apply to damage or loss of any products, refrigerant, property, or loss of income or profits due to the malfunctioning of said unit, nor to transportation or special charges for state sales or other taxes. This warranty also does not cover issues that are caused by lack of maintenance that is to be performed weekly as per cleaning instructions, nor is the adjustment of the viscosity for product thickness.

01/2016