

# Frosty Factory of America, Inc.

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## Owner's 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 modifications 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:

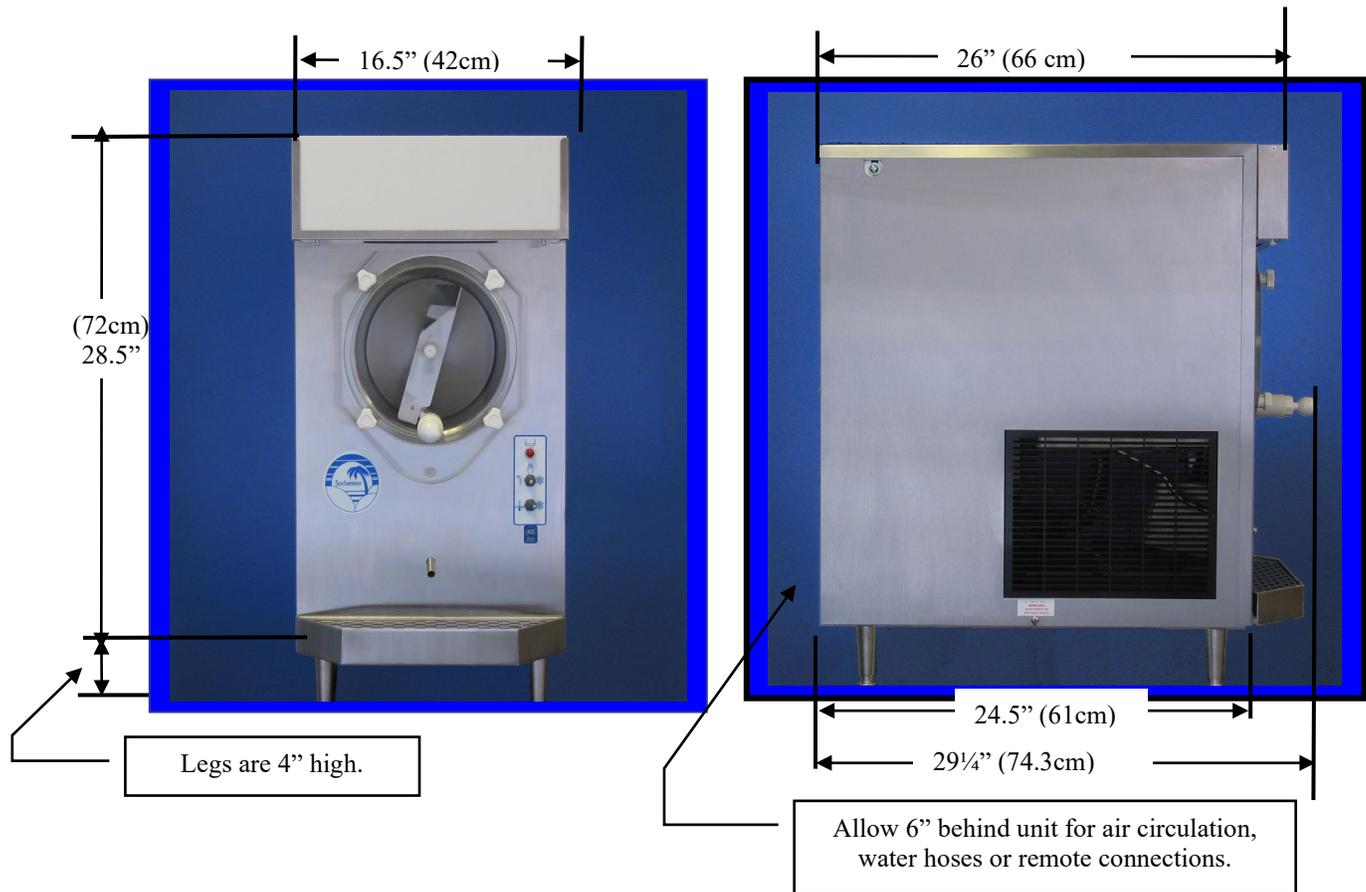


Beater Bar, Drip Tray, Faceplate,  
Faceplate Knobs, Hopper Cover,  
Petro-Gel, Sanitizer, Spare Faucet O-Rings,  
Wire Brushes, Manual.  
Remote fittings on 235R units.

### 1.3 DESCRIPTION



### 1.4 DIMENSIONS



## SECTION 2 LOCATION & INSTALLATION

### **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 Frozen Drink 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.

1. Uncrate your Frozen Drink Machine.
2. The Frozen Drink Machine 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.
3. These units are intended for use with a remote condensing unit. The Frozen Drink Machine requires 12" clearance on the top, 6" at the rear and 0" on each side.

**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.

4. Place the three-position switch in the OFF position (center).
5. Connect the power cord. The Frozen Drink Machine must be connected to a properly grounded receptacle. The electrical cord furnished as part of the Frozen Drink Machine has a three-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.



6. Install the drip tray, cover, beater bar and faceplate assemblies on the Frozen Drink

## SECTION 3 OPERATION

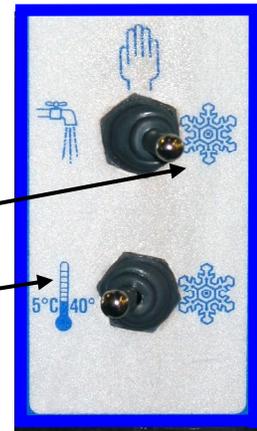
### 3.1 MACHINE CONTROLS

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.



**Cooling 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 counterclockwise (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.



**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 Frozen Drink Machine Model 235R with **three** dispensers operating from one condensing unit is approximately **30** minutes, with **two** dispensers operating **22** minutes, with **one** dispenser operating **12** minutes. Times are as above when **ideal conditions** are met. Such as, pre-cooled starting mix temperature of 40 degrees and condensing unit temperature at 80 degrees or less. The time will increase if the machine is not properly ventilated or is operated in a hot environment. Recipes with high alcohol or high sugar content will naturally take a little longer.

## SECTION 4 MAINTENANCE

### 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.

**NOTE:** Do not put hands or foreign matter into mix.

- (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. ) cleaning solution. Rinse all parts in clean rinse water and allow to air-dry before re-assembly.



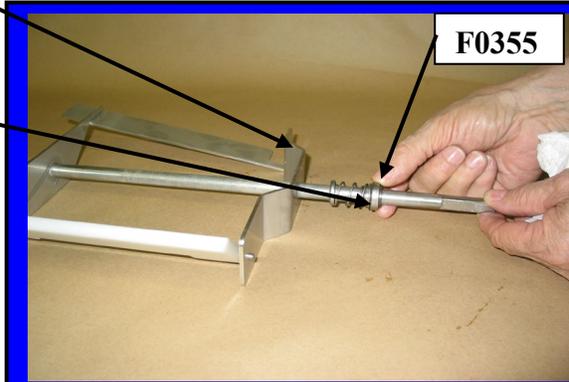
- (6.) Use cloth and cleaning solution to wipe any residue from cylinder and hopper.
- (7.) Re-assemble as shown in section 4.2 (next page).
- (8.) Mix two gallons of warm water (approximately 100 degree F) with two ounces of sanitizing powder to achieve 100 parts per million (PPM) sanitizing solution.
- (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.**  
Notice: 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 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 **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**

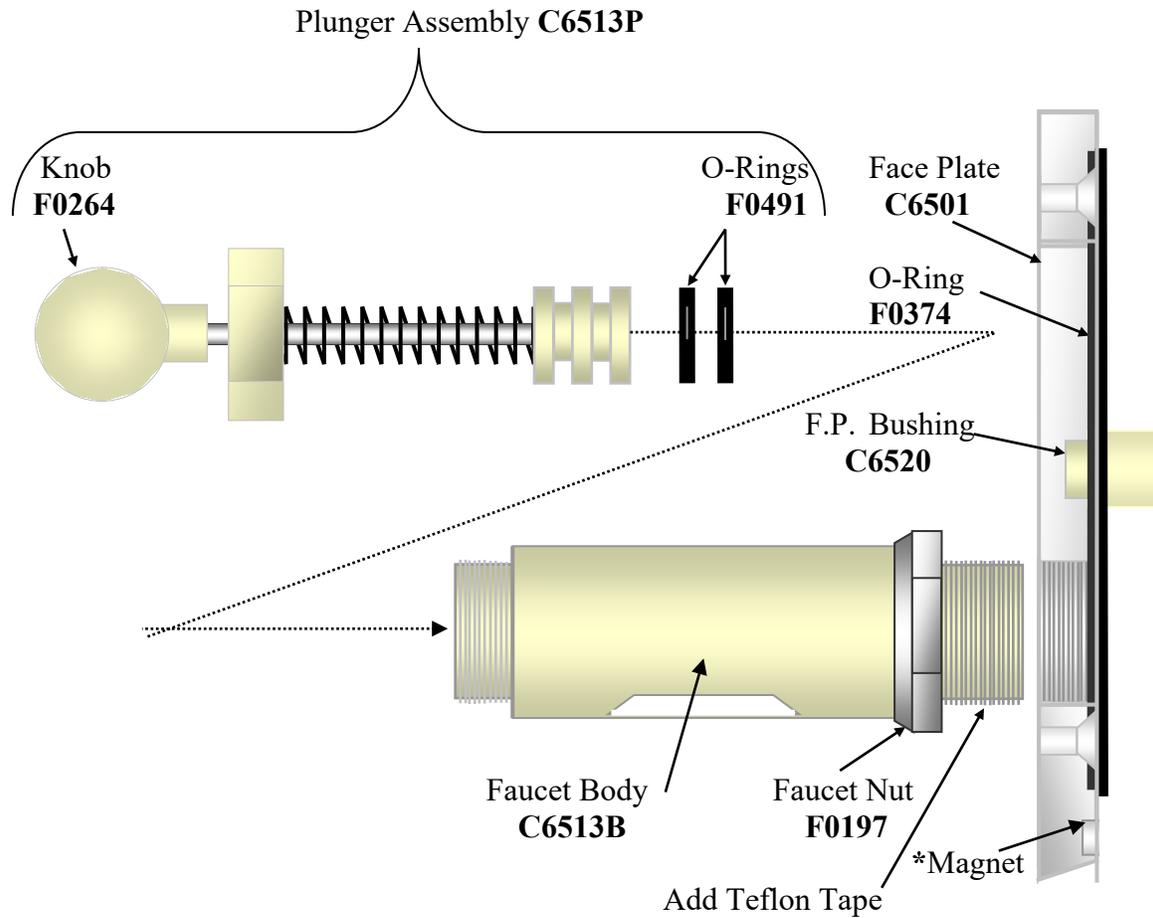
Refer to the following steps for storage of the machine over any long period of shutdown time:

- (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 all parts in clean water and dry. 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.

## 4.5 FACEPLATE/FAUCET ASSEMBLY

<u>Face Plate/Faucet Assembly</u>	<u>Part No.</u>
A. Face plate <u>assembly</u> with magnet	<b>C6501</b>
B. Faucet <u>assembly</u> with nut	<b>C6513</b>
C. Plunger Assembly (only)	<b>C6513P</b>
D. Faucet body (only)	<b>C6513B</b>



\*Motor Disconnect Magnet (Motor will not operate when faceplate is removed)

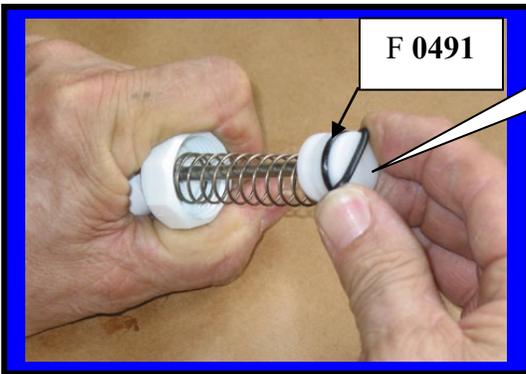
**4.5 FACEPLATE/FAUCET ASSEMBLY (continued)**



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

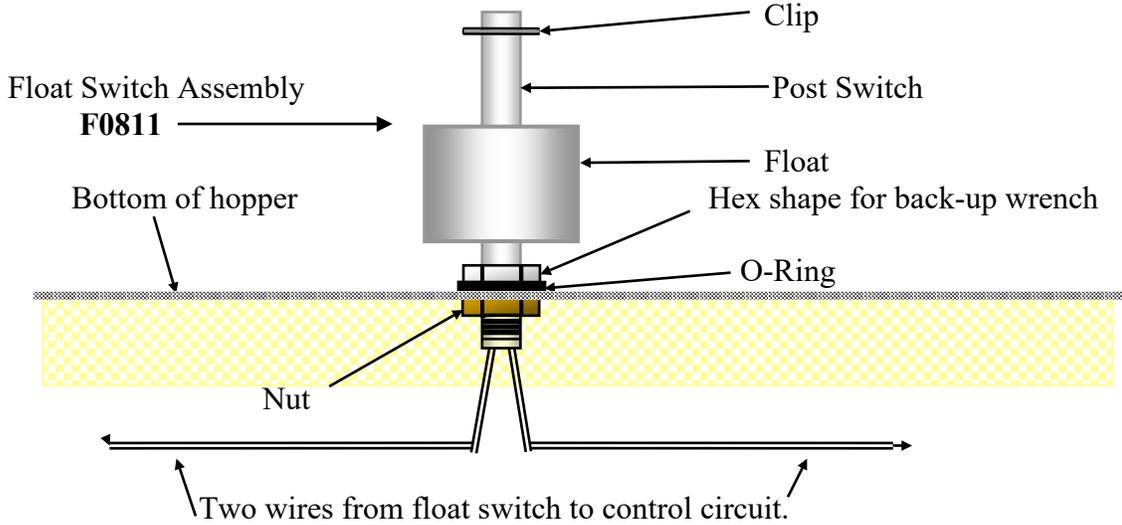


Installing **Faceplate** onto front of Machine.

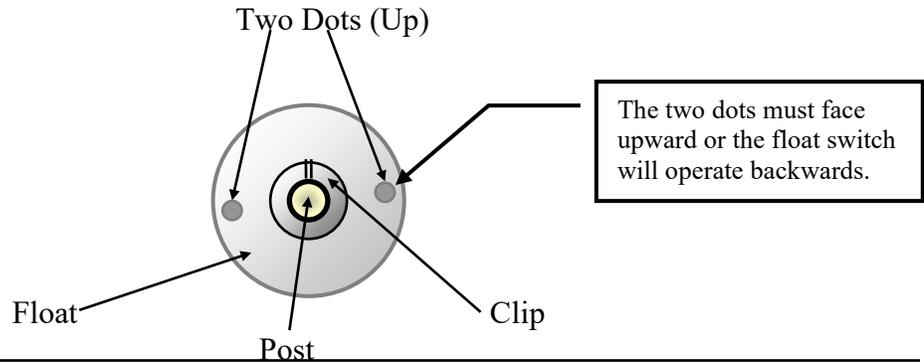


#### 4.6 FLOAT SWITCH ASSEMBLY

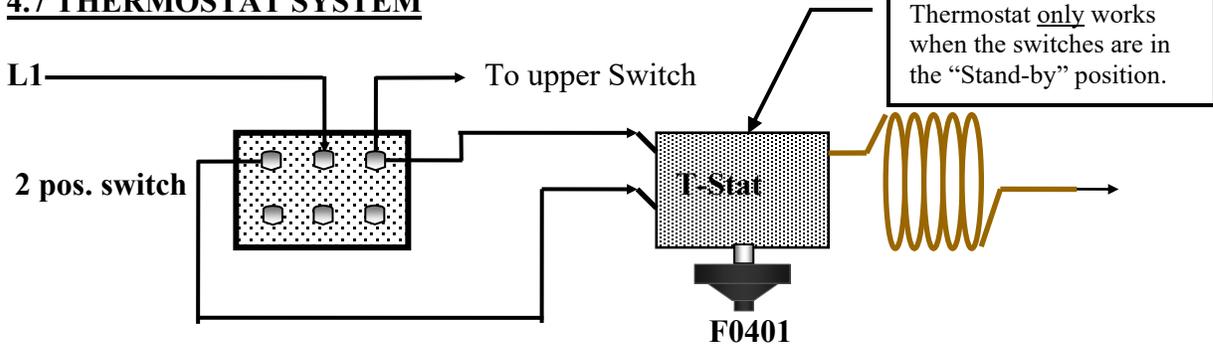
1. The float switch assembly consists of: Post switch, Float , Float clip, O-Ring and Nut.
2. There are two dots on one end of the float. When assembled the two dots must be on the top end of the float.
3. Place O Ring so that it will be inside the hopper (sink bottom) when finished.



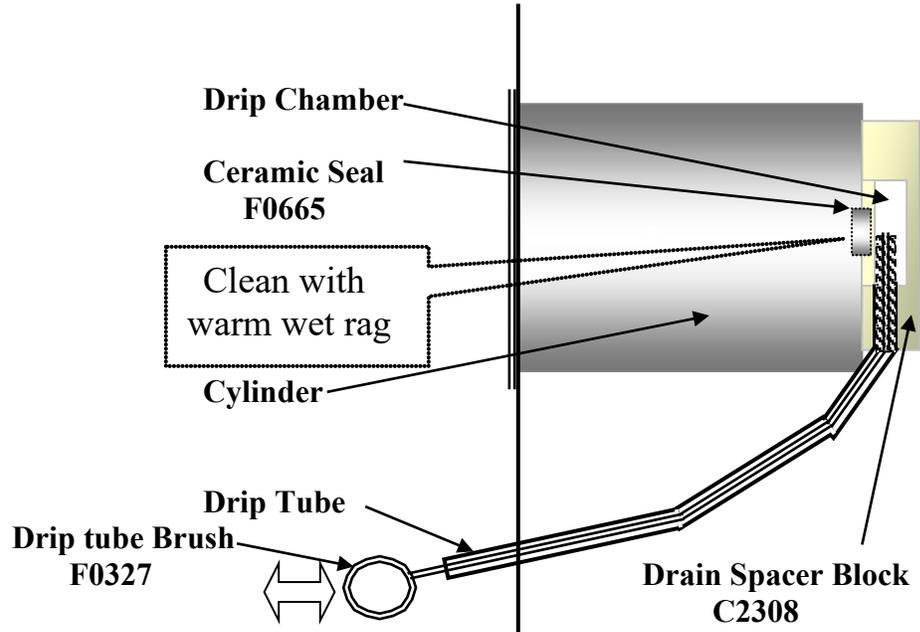
#### Top View of Float Switch



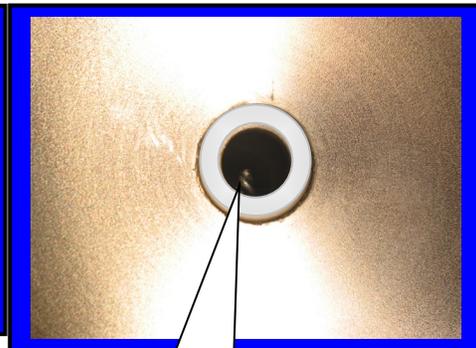
#### 4.7 THERMOSTAT SYSTEM



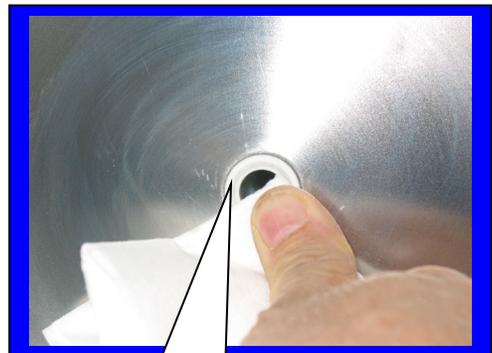
## 4.8 USING THE CLEANING BRUSHES



Insert long brush into drip tube



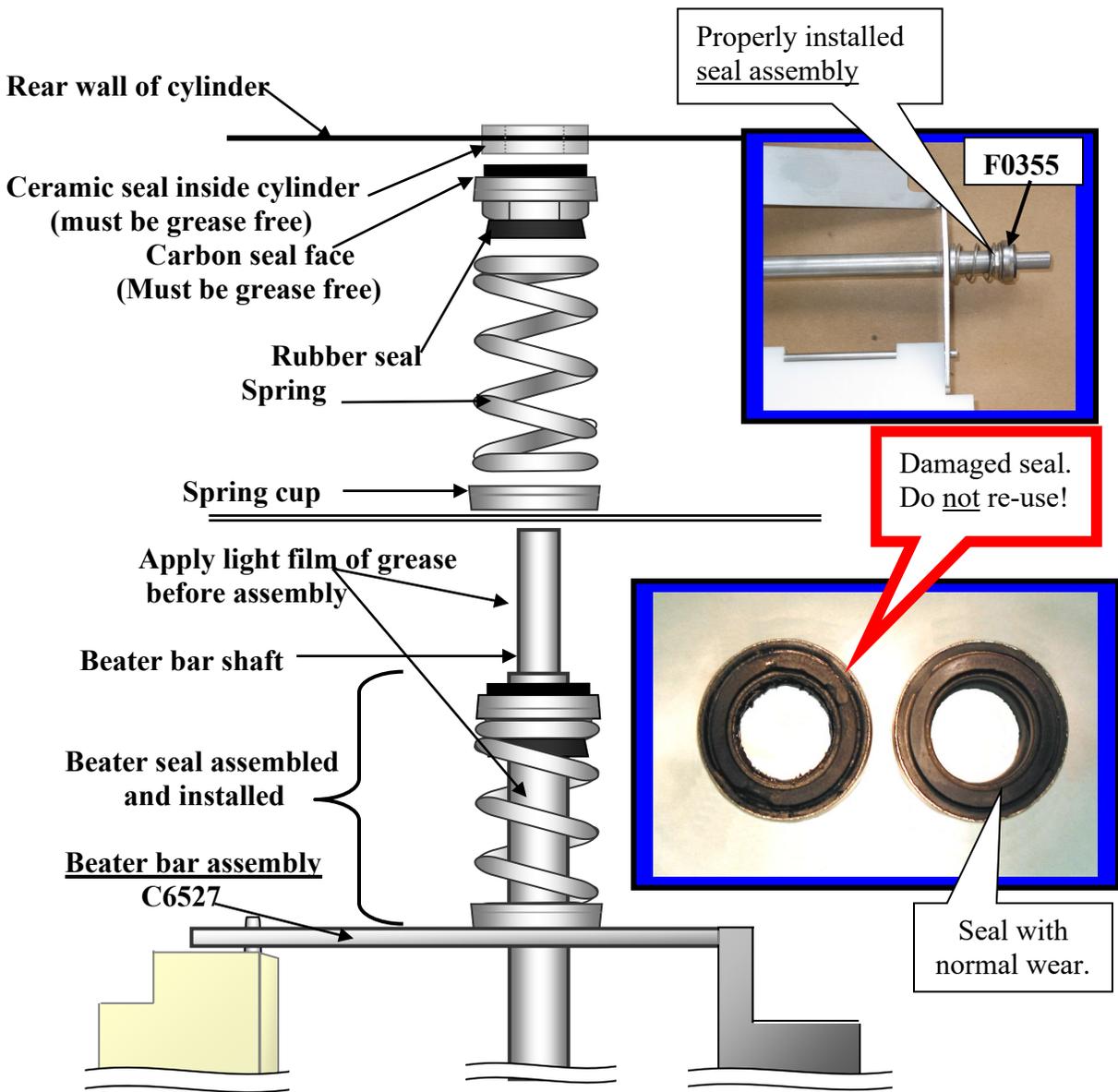
Push brush all the way in until it can be seen in the middle of the ceramic ring



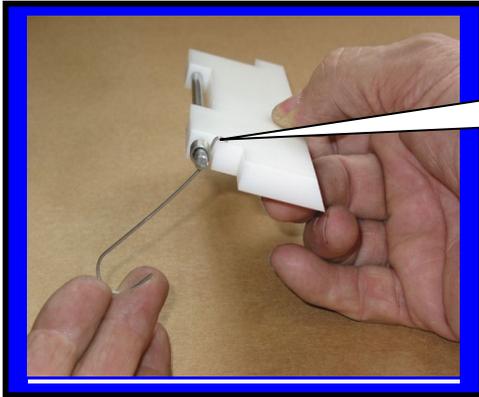
Clean ceramic ring with warm, wet rag. Remove any dried product from center of ceramic ring.

#### 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.

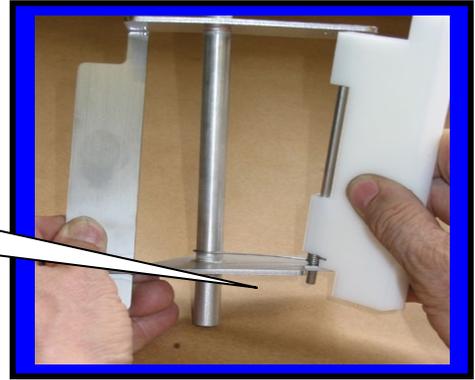


## 4.10 BEATER BAR AND SPRING INSTALLATION



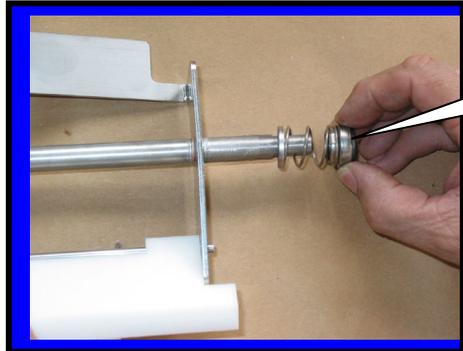
Step 1: Attach scraper blade spring F6512 as shown.

Step 2: Insert rod end into beater bar frame.



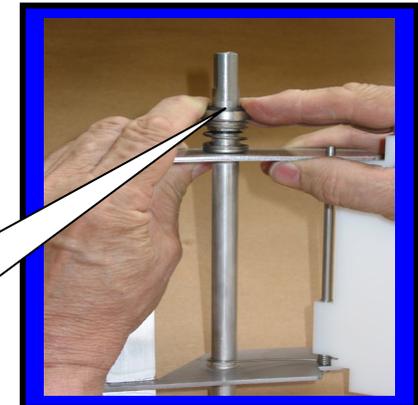
Step 3: Tap scraper blade rod until it is centered.

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 beater bar assembly C6527 into cylinder.

Step 8: Install faceplate C6501 onto machine

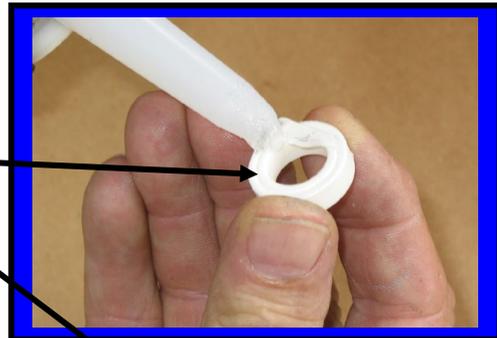
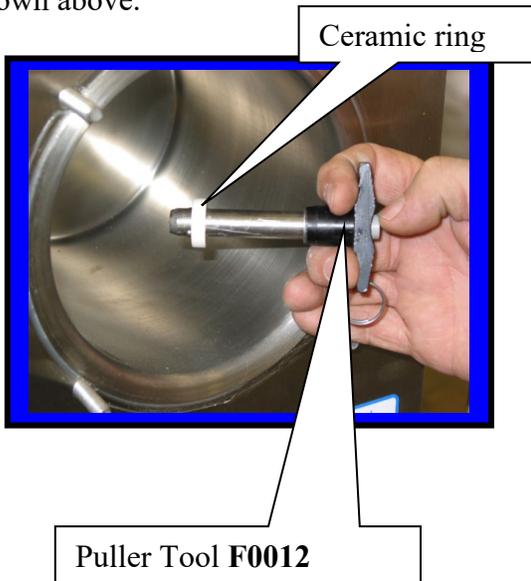


## 4.11 CERAMIC SEAL REMOVAL AND RE-INSTALLATION

**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 above.



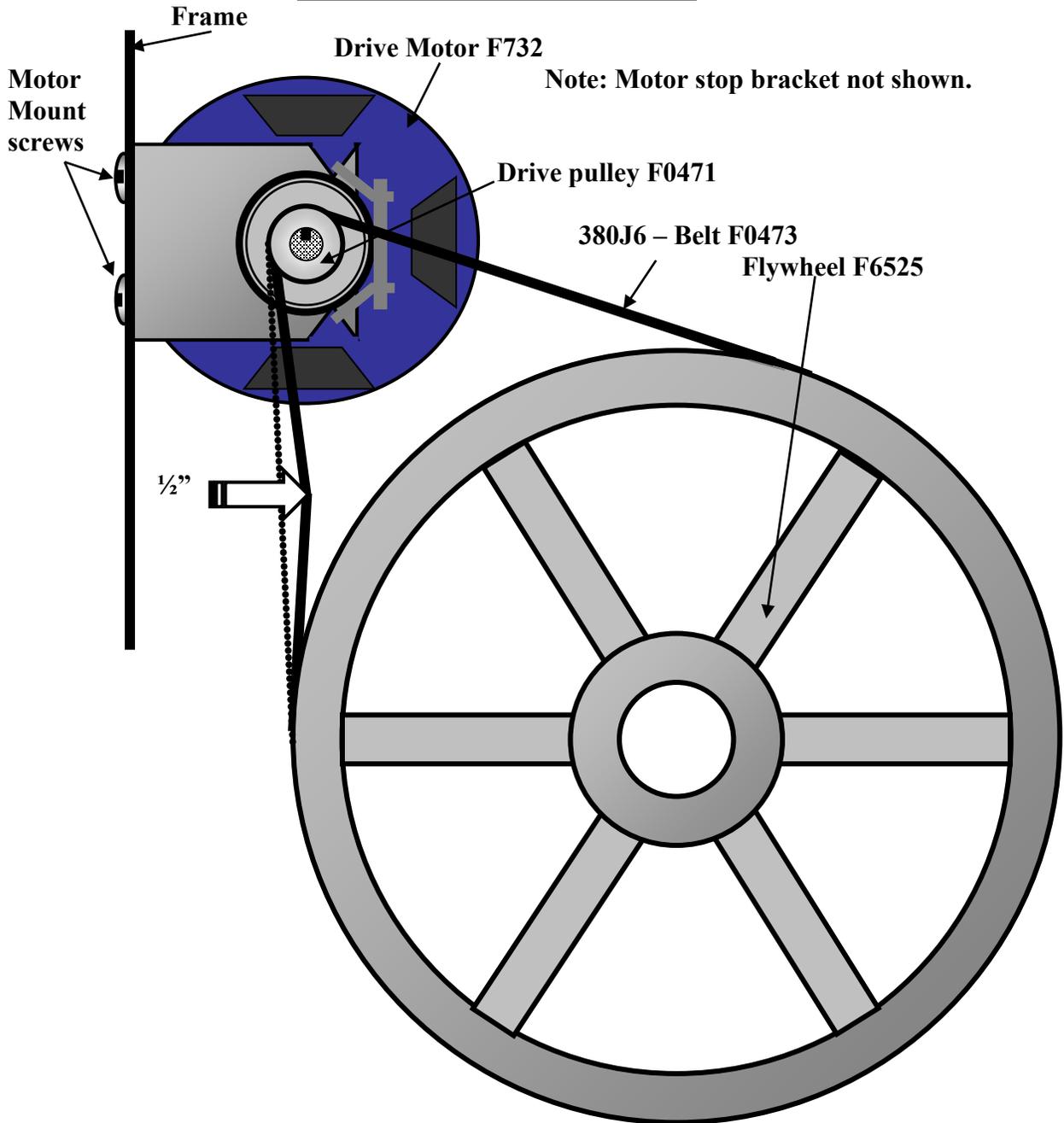
### To install new seal:

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.



## 5.1 DRIVE BELT

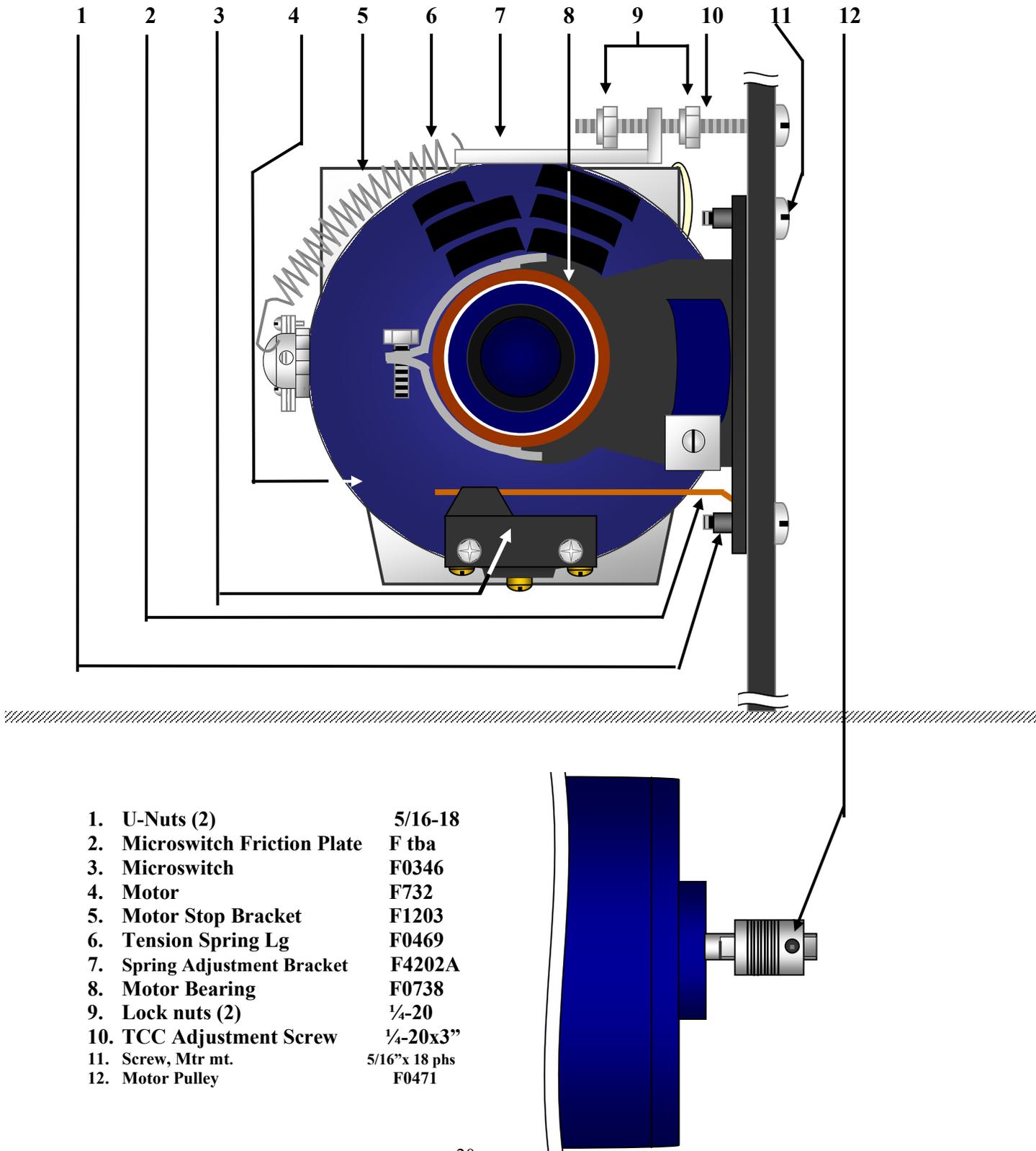
### All Frozen Drink Machine Models



1. 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.
2. To test the belt tension, press on the belt at the mid-point (arrow). The belt should move easily for the first 1/2 inch. It should be difficult to press the belt more than 1/2 inch.
3. 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.

## 5.2 FRANKLIN DRIVE MOTOR

### All Frozen Drink Machine Models

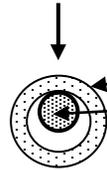


### 5.3 SHIM PLACEMENT

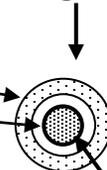
1. Disconnect power before servicing unit.
2. Insert alignment shaft into cylinder where the beater bar is normally installed.
3. Install Faceplate assembly and 2 knobs to hold faceplate on.
4. Turn flywheel slowly and observe spacing between the alignment shaft and the ceramic ring at the rear of the 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

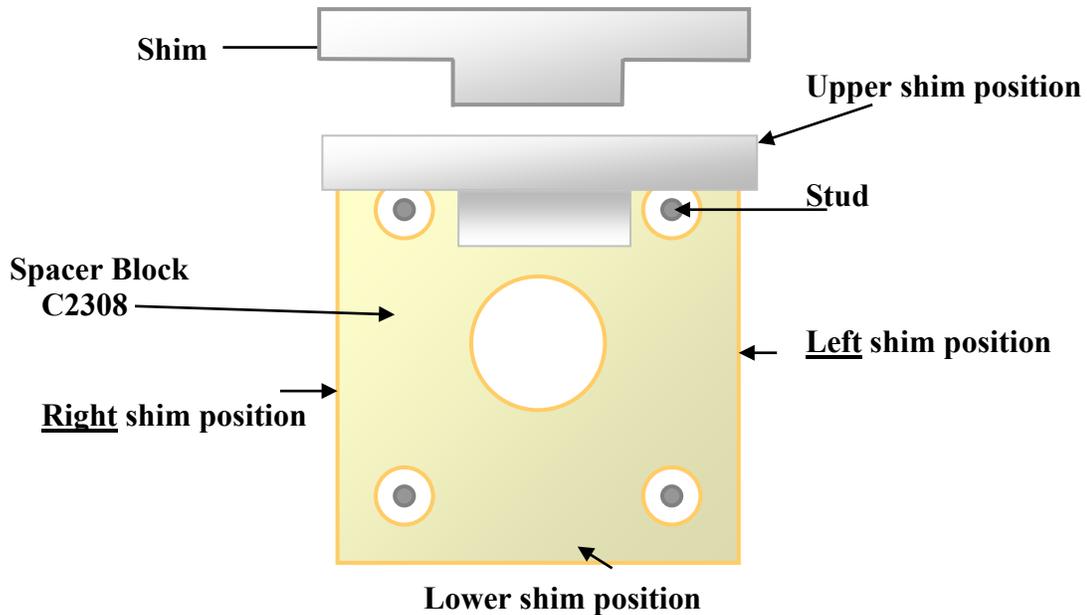


Place shim at upper shim position.



Example of alignment  
After shim placement

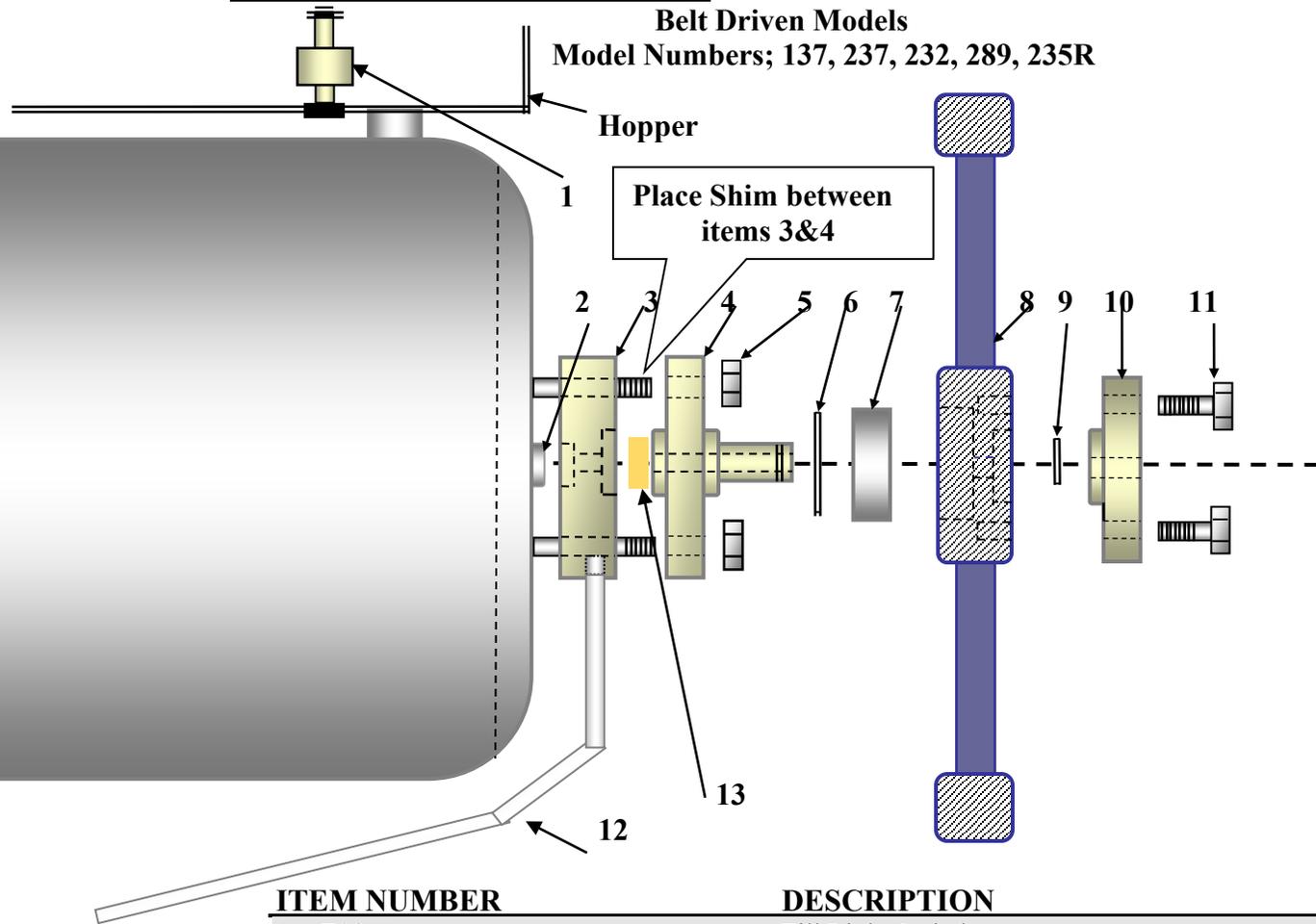
Example of upper shim placement as viewed from the **back** of the machine



## 5.4 REAR CYLINDER ASSEMBLY

### Belt Driven Models

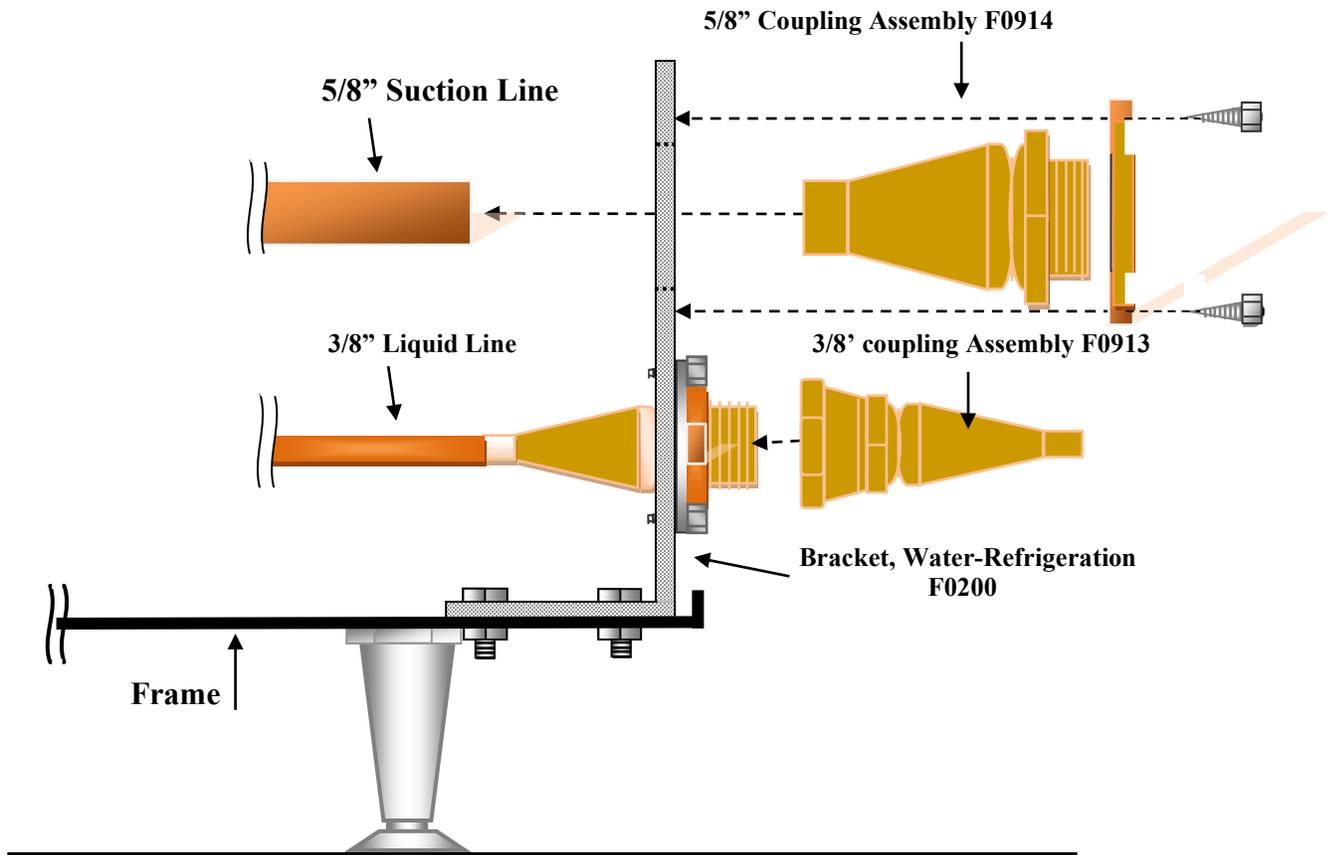
Model Numbers; 137, 237, 232, 289, 235R



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)
C6525	Assembly, Flywheel
(Includes items: 4,6,7,8,9,10)	
9. F0331	Small Clip Ring
10. C4403	Drive Plate
11. 5/16-18x1"	Drive Plate Bolts
12. F2309	1/2" Drain Tube(stainless steel)
13. F7057	Bearing Plate Seal (new 11-2015)

\*Note: F0355 is the part # for the Spring Seal Assembly which includes the ceramic seal. (No. 2 above)

## 5.5 REMOTE SELF SEALING COUPLING ASSEMBLY EXPLODED VIEW



**NOTE:** The assemblies with part numbers F0913 and F0914 include male and female halves as well as the hold-down washer.

1. The 5/8" "male half" of the assembly attaches into the upper hole of the bracket with 1/4" hex head screws, and "hold-down" washer, as shown.
2. The 3/8" "male half" of the assembly attaches into the lower hole in the bracket with 1/4" hex head screws, and "hold-down" washer as shown.
3. Both "female halves" can be soldered onto the main copper lines from the condensing unit prior to being vacuumed, leak checked and pre-charged.
4. After the service lines are assembled, the "self-sealing" couplings can be connected without loss of refrigerant. Both halves are "self-sealing".

**NOTE:** Use thread protectors on the male ends. Any damage to threads will create a leak hazard.

<b>SECTION 6 TROUBLESHOOTING</b>
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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. Be sure that a *faceplate with magnet* is installed on unit.
  
2. **Beater motor starts but condensing unit 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. If problem causes circuit breaker to trip, call service repairman.
  
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. Check the condenser to see if it has become clogged with lint, dust etc. Clean as necessary.
  - E. Be sure the cylinder is full of mix.
  - F. If problem remains, call service repairman.
  
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.
  - D. Scraper blade spring missing or broken.
  - E. Scraper blade dull
  
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 to see that the fan is turning freely.
  - 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, call service repairman.
10. **Unit continues to run when switched to stand-by.**
- A. Have qualified technician remove back panel and reset thermostat. (turn all the way off then turn all the way on again.)
  - B. If problem remains call service repairman.
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. Call service repairman.
  - E. Faulty motor. Call service repairman.
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 MACHINE FOR ANY REASON!!!** If the barrel becomes saturated with chlorine apply chlorine neutralizer as needed (obtain from swimming pool supply store).

<b>SECTION 7</b> <b>SPARE PARTS LIST</b>
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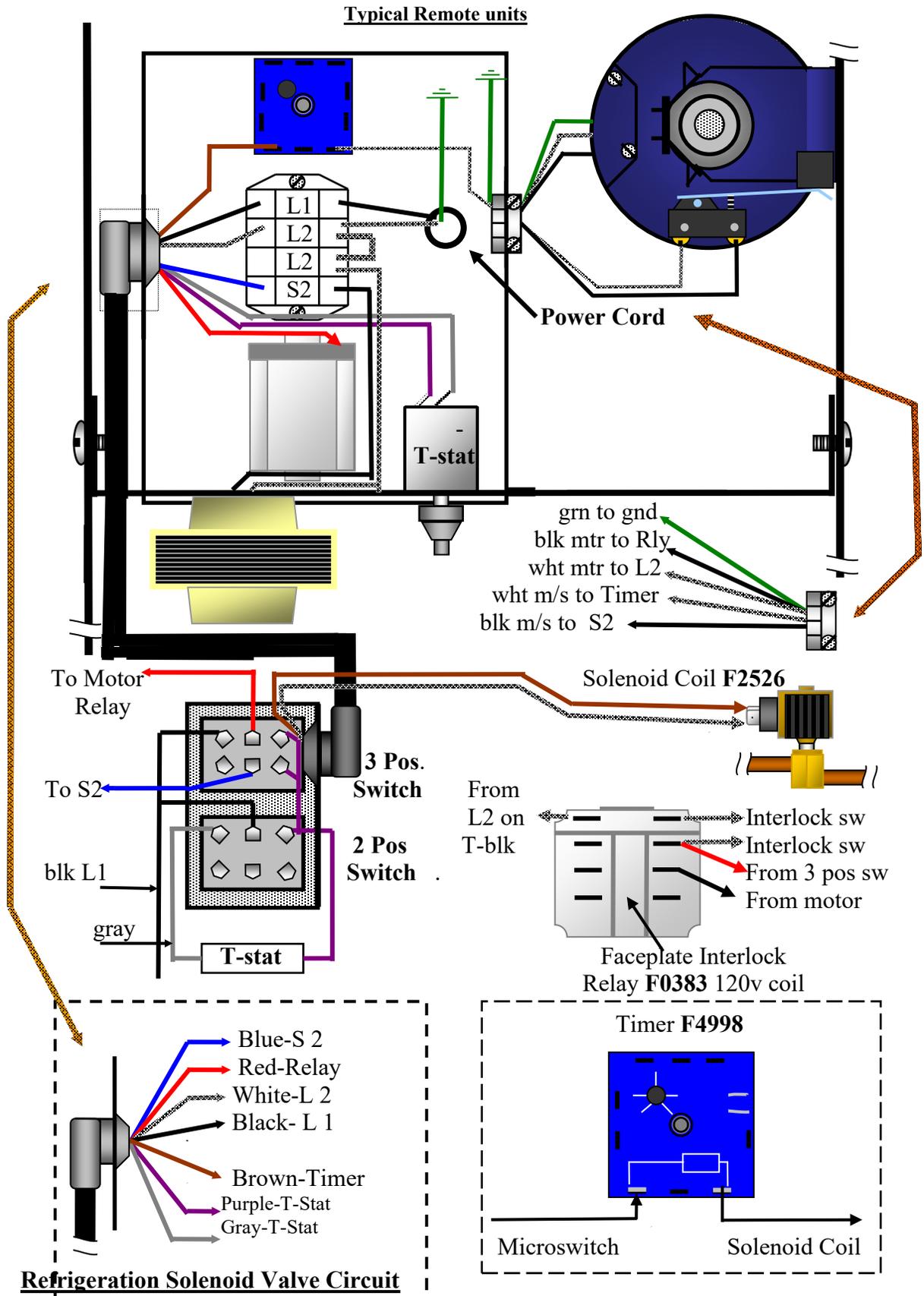
Revised 10/22/09

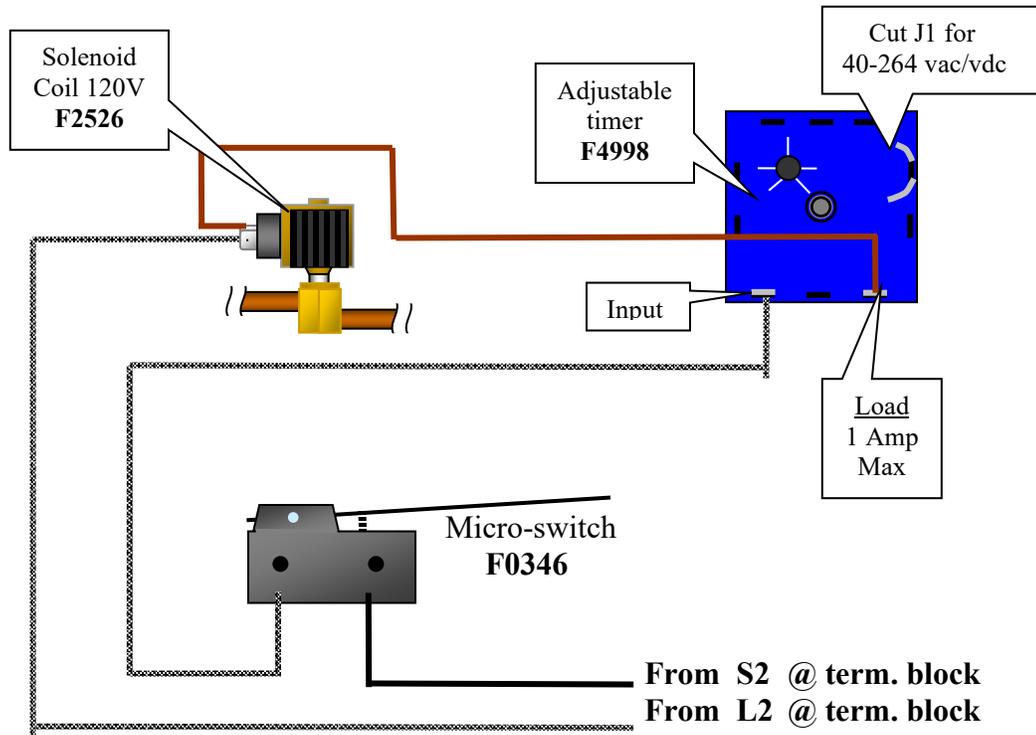
**7.1 SPARE PARTS FROZEN DRINK MACHINE MODELS 235R**

<b><u>DESCRIPTION</u></b>	<b><u>ITEM NUMBER</u></b>
Bearing Plate	C2306
Bearing, Motor (Obsolete)	F0474
Bearing, Motor	F0738
Beater Bar Assembly, Lg.	C6527
Beater Bar Frame, Lg.	C6509
Beater Bar Spring Seal	F0355
Block, Spacer Lg.	C2308
Brush, Drip Tube, Lg.	F0327
Clip Ring, Lg.	F0330
Clip Ring, Sm.	F0331
Coil, Ref. Solenoid 120Volt	F2526
Coil, Ref. Solenoid 230Volt	F1526
Computer Board, Auto Fill 110Volt	F0577
Computer Board, Auto Fill 220Volt	F0562
Coupling, Assembly 3/8"Ref.	F0913
Coupling, Assembly 5/8"Ref.	F0914
Coupling, Half 3/8"Female	F0912
Coupling, Half 5/8"Female	F0911
Drip Tray	F0195
Drip Tray Insert	F0196
Drip Tray Screws	F0905
Drip Tube Brush	F0327
Drive Belt	F0473
Drive Motor	F732
Drive Motor Assembly	C732
Drive Motor Pulley	F0471
Drive Plate	C4403
Dryer, Liquid Line 5Cu"	F5543
Face Plate with magnet	C6501
Face Plate Bushing	C6520
Face Place Interlock Relay Coil	F0383
Face Plate Knobs	F0262
Faucet Assembly	C6513
Faucet Body	C6513B
Faucet Brush	F0326
Faucet Nut	F0197
Faucet Plunger	C6513P
Faucet Spring	F0564
Fill Light	F0207
Float Clip	F0812

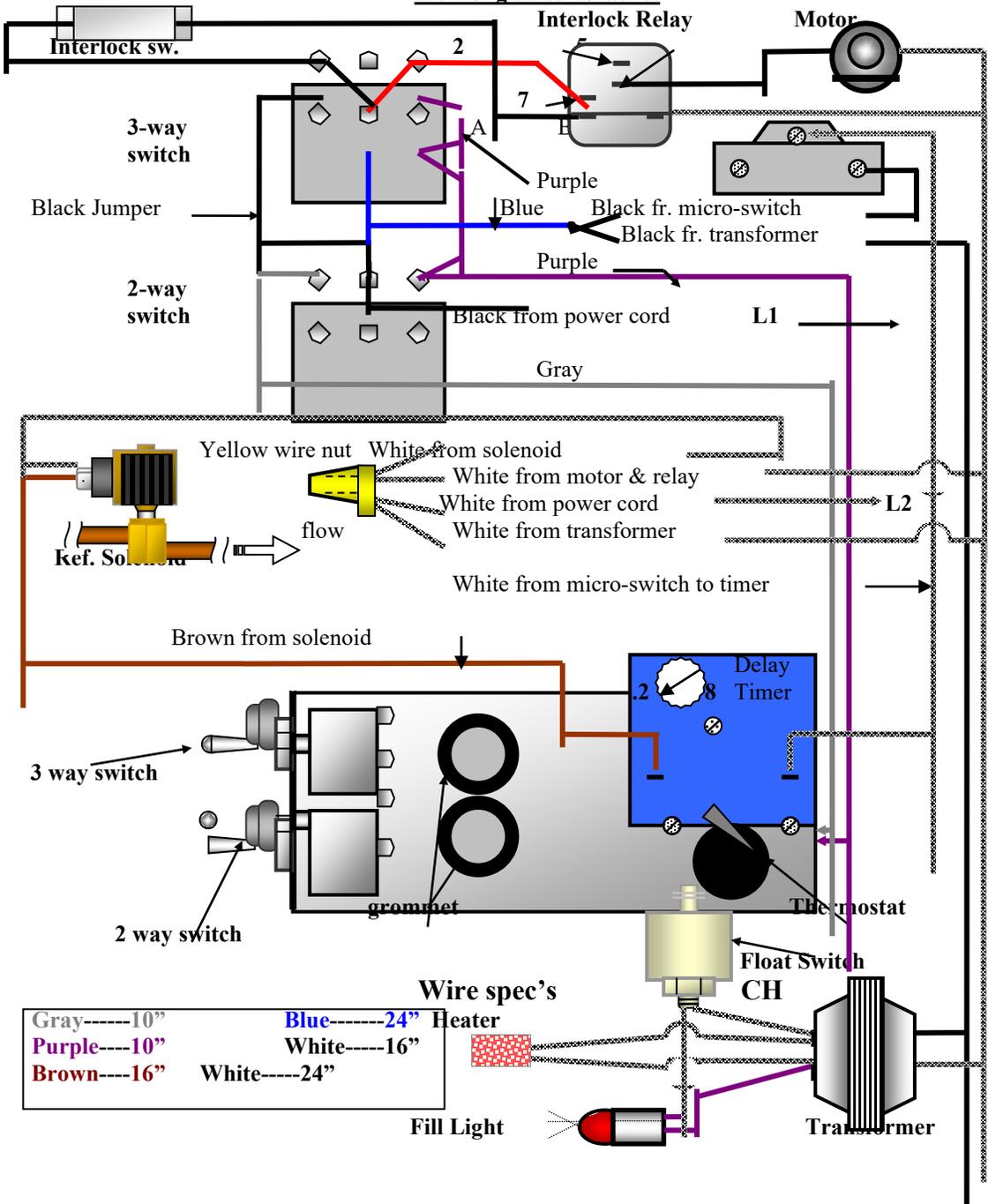
<b><u>DESCRIPTION</u></b>	<b><u>ITEM NUMBER</u></b>
Flywheel	F6525
Flywheel Bearing	F0267
Heat Sequencer	F0400
High Pressure Switch	F0660
Hopper Cover	F0497
Legs, 4" Stainless	F0800
Microswitch	F0346
Motor Spring Bracket	F1239
Motor Stop Bracket	F1203
O-Ring, Face Plate	F0374
O-Ring, Faucet	F0491
O-Ring, Fill Switch	F0161
Panel Louver	F0254
Panel, Left Side	F6405
Panel, Rear	F6407
Panel, Right Side	F6406
Petro-Gel	F0298
Puller tool (Ceramic ring)	F0012
Pulley, Drive Motor	F0471
Rear Cylinder Brace	F2005
Sanitizer	F0492
Scraper Blade	C6510F
Scraper Blade Spring	F6512
Seal, Ceramic	F0665
Sign Panel	F0170
Stainless Steel Legs	F0800
Switch Nut	F7003
Switch, 2-Position, Bottom	F0417
Switch, 3-Position, Top	F0416
Switch, Fill Light (Float)	F0811
Tension Spring	F0469
Thermostat	F0401
Time Delay (Adjustable)	F4998
Transformer (Multi-volt)	F4995
Valve, Expansion, 3 Gal.	F0529
Valve, Solenoid, 3/8" Ref.	F0526

**JUNCTION BOX**



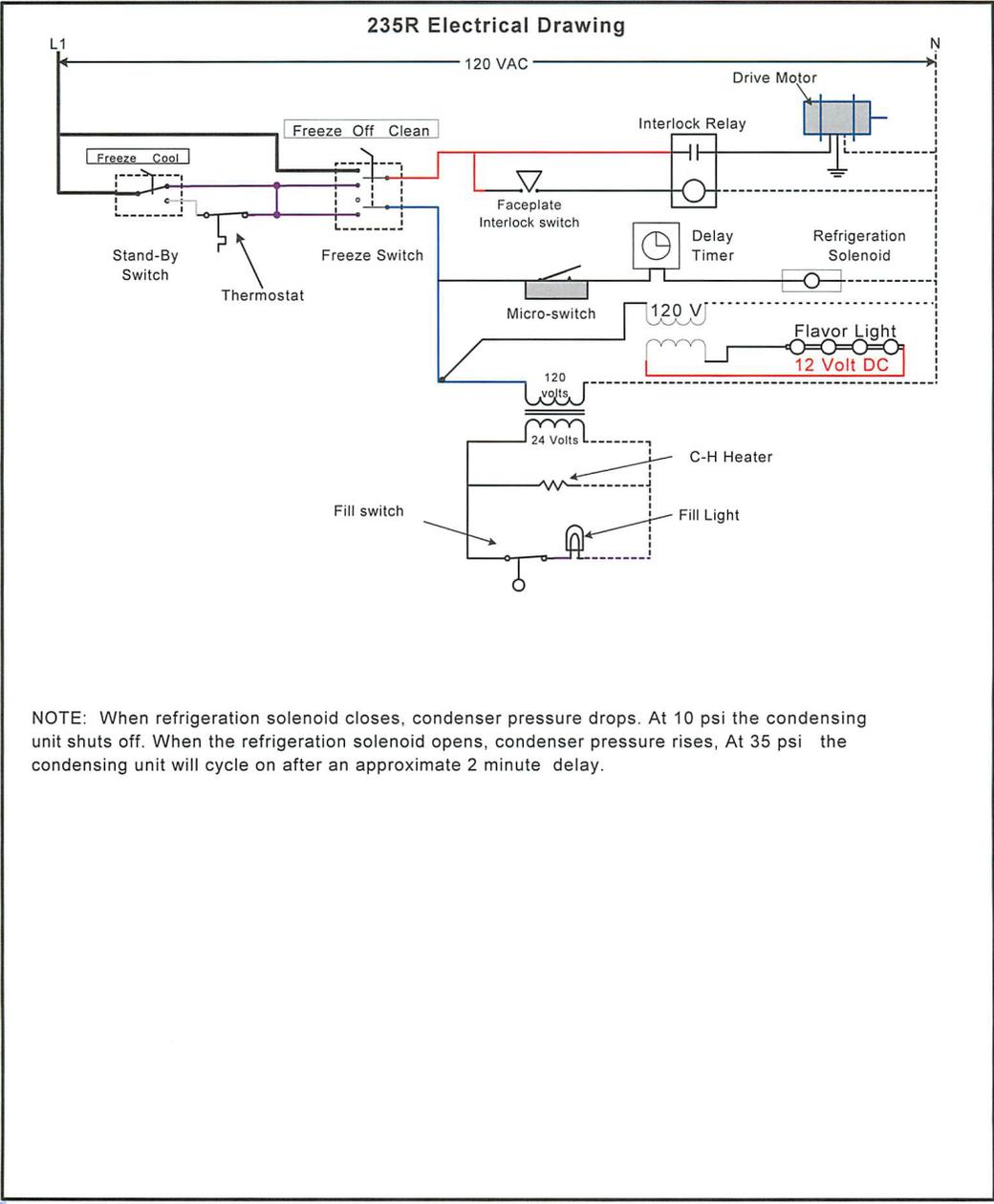


**Model 235R  
wiring diagram  
with long switch bracket**



**Wire spec's**

Gray-----10"	Blue-----24"
Purple-----10"	White-----16"
Brown-----16"	White-----24"





## LIMITED 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 exceptions below. The compressor and the evaporator have a warranty period of five years. During the warranty periods, Frosty Factory of America, Inc., agrees to repair or replace (at its option) without cost to purchaser-user, except for expedited shipping charges, 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. No item can be returned to the factory prior to a Return Authorization having been issued by the factory. Any item returned without a Factory Return Authorization affixed to it will not be accepted.

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. If the warranty is not registered 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 and comply with warranty processing guidelines. These guidelines include, but are not limited, to the end user opening a warranty ticket with Frosty Factory's tech support department, answering troubleshooting questions on the machine, conducting simple troubleshooting tasks, and sending any pictures requested by the tech support department.

Limits to this warranty:

1. This warranty does not apply to damage to said unit occurring in transit, or damage caused by unauthorized alternations, 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.
2. 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.
  3. This warranty excludes normal maintenance items, including but not limited to, O-rings, seals, belts, etc.
  4. This warranty does not cover issues that are caused by lack of maintenance that is to be performed weekly as per cleaning instructions.
  5. The equipment installation location must have suitable conditions as explained in the operator's manual or specification sheet including but not limited to, ambient temperature, water supply parameters, and space requirements.
  6. This warranty does not cover the adjustment of the viscosity for product thickness, or belt realignments once equipment is installed.
  7. This warranty does not cover end-user training on subjects included in the operation manual.
  8. Overtime, weekend, and holiday premiums will be the responsibility of the buyer.
  9. This warranty does not cover equipment failure caused by inadequate water quality, improper cleaning, harsh chemicals, or acids.
  10. Labor and travel charges due to return trips or waiting if the service provider is prevented from starting service work upon arrival. This exception includes labor charges incurred for limited access facilities and limited access to the equipment.

Rev. 12/1/23

Register your warranty online at: [www.frostyfactory.com/warranty-submission.php](http://www.frostyfactory.com/warranty-submission.php)