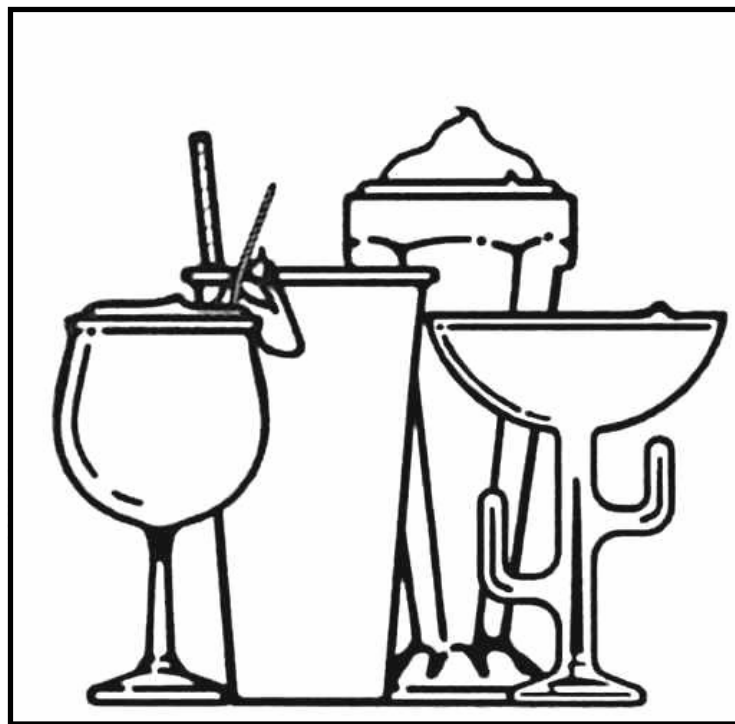


# SaniServ®

 An AFFINIS GROUP Company

*“Reliability from the team that Serves the Best”*



Model WB700J Frozen Beverage Dispenser  
with *AccuFreeze* Electronic Consistency Control

## Operation Manual

**Distributor Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Date of Installation:** \_\_\_\_\_

**Model Number:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**Installer/Service Technician:** \_\_\_\_\_

**SERVICE:** Always contact your SaniServ dealer or distributor for service questions or service agency referral. If your SaniServ dealer or distributor cannot satisfy your service requirements, he is authorized to contact the factory for resolution.

**Note:** It is the Owner's responsibility to maintain the Service Record located on the inside rear cover of this manual. An accurate record of service performed can greatly expedite troubleshooting of problems and significantly reduce repair costs.

**PARTS:** Always order parts from your SaniServ dealer or distributor. When ordering replacement parts, specify the part numbers, give the description of the part, the model number and the serial number of the machine.

**WARRANTY:** Remove the Check Test Start (CTS) form and fill it out in its entirety. Return the original (white) copy to SaniServ. The Dealer/Distributor retains the second (yellow) copy and the Owner/Operator retains the third (pink) copy.

The Manufacturer's Limited Warranty is printed on the reverse side of the Owner/Operator copy.

**IMPORTANT**

**TO VALIDATE THE WARRANTY, THE CTS FORM MUST BE COMPLETED AND RETURNED TO THE FACTORY WITHIN 30 DAYS OF INSTALLATION.**

**Note:** The Check Test Start function must be performed by a qualified technician.

**IMPORTANT**

**This machine was designed to produce frozen slush beverages only.**

**Do NOT attempt to operate this machine with soft serve or shake type product mix.**

**Damage to the machine may occur and warranty will be void.**

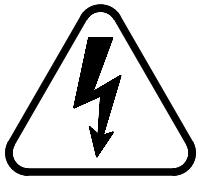
## NOTICE

This SaniServ manual has been developed in a format which complies with CE guidelines at the time of publication. Reference is made to 50 cycle units, but this manual applies to machines of all electrical power configurations.

### STATEMENT OF INTENDED USE

All SaniServ Machines covered in this manual are designed for one specific end use - to freeze and dispense frozen beverages.

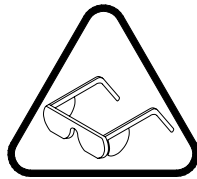
### PICTOGRAM LEGEND



**ELECTRICAL SHOCK HAZARD**



**TIP AND CRUSH HAZARD**



**PROTECT EYES SPLASH HAZARD**



**HAND PINCH OR ENTRAPMENT HAZARD**



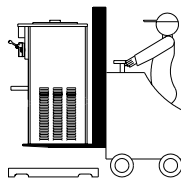
**SHARP MACHINE PARTS HAZARD**



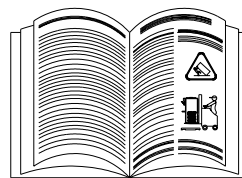
**CLEANOUT OPERATION**



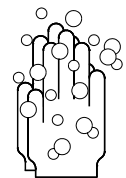
**FROZEN PRODUCT**



**USE MECHANICAL LIFT EQUIPMENT**



**READ AND UNDERSTAND**



**WASH HANDS BEFORE PROCEEDING**

<b>115 Volt 60 Cycle Single Phase Machine Specifications</b>	
<b>Model</b>	<b>WB700</b>
<b>Width</b> Inches (mm)	10.5 (267)
<b>Height</b> Inches (mm)	25.8 (656)
<b>Depth</b> Inches (mm)	26.0 (660)
<b>Machine Weight</b> lb (kg)	105 (48)
<b>Crated Weight</b> lb (kg)	135 (61)
<b>Circuit Amps - Minimum</b>	15
<b>Circuit Amps - Maximum</b>	15

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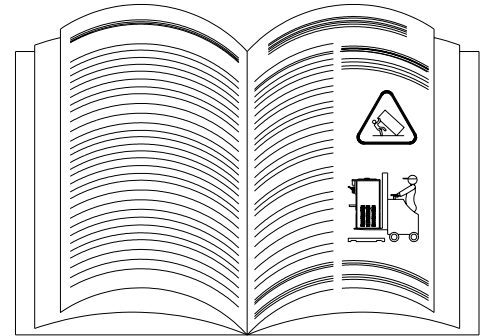
# Introduction

This manual provides a general system description of the SaniServ Soft Serve and Shake Dispensers. It has been prepared to assist in the training of personnel on the proper installation, operation, and maintenance of the machines.

Read and fully understand the instructions in this manual before attempting to install, operate, or perform routine maintenance on the machines.

The following sections of the manual must be performed in sequence:

1. Installation
2. Installer's Preoperational Check
3. Disassembly & Cleaning
4. Assembly & Lubrication
5. Sanitizing & Operation
6. Consistency Adjustment



## Installation



### WARNING

**ALWAYS USE A SUFFICIENT NUMBER OF PEOPLE OR MECHANICAL LIFTING EQUIPMENT TO PROTECT ALL PERSONNEL FROM PERSONAL INJURY DURING THE REMAINING STEPS.**

1. Carefully lower the machine and place it where it will be installed.
2. Level the unit by turning the bottom part of each leg clockwise or counterclockwise (Fig. 2). The machine **MUST** be level to operate properly.

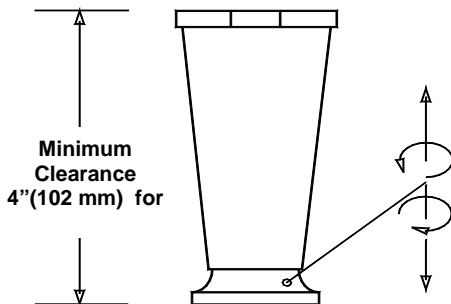


Fig. 1

A MINIMUM 6" (152 MM) CLEARANCE MUST BE MAINTAINED AT THE REAR AND SIDES OF THE MACHINE FOR ADEQUATE VENTILATION.

3. Electrical and refrigeration specifications are located on the data plate on the rear of the individual machines. Consult local authorities for information regarding plumbing and electrical codes in the area.

**Note: All SaniServ machines should have their own dedicated circuits whether they are cord connected plug-in devices or hard wired units.**

### IMPORTANT

**ALWAYS CHECK ELECTRICAL SPECIFICATIONS ON THE DATA PLATE OF THE MACHINE. DATA PLATE SPECIFICATIONS ALWAYS SUPERSEDE ELECTRICAL INFORMATION IN THIS MANUAL.**

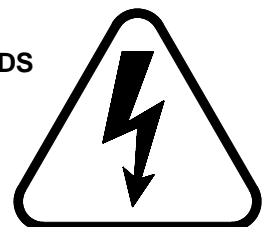


### WARNING

**FAILURE TO PROVIDE FOR PROPER EARTH GROUND ACCORDING TO LOCAL APPLICABLE ELECTRICAL CODES COULD RESULT IN SERIOUS ELECTRICAL SHOCK OR DEATH.**

**DO NOT USE EXTENSION CORDS**

**DO NOT TURN MACHINE ON**



# Installer's Preoperational Check

THE FOLLOWING ITEMS MUST BE PERFORMED BEFORE ATTEMPTING TO OPERATE THE EQUIPMENT:



## WARNING

Make certain that proper electrical connections have been made. Plug power cord into power outlet.



## CAUTION

**UNDER NO CIRCUMSTANCES SHOULD THE UNIT BE OPERATED WITH THE FREEZE AND DASHER SWITCH (Fig. 2) ON FOR MORE THAN THREE MINUTES WITH EMPTY FREEZING CYLINDERS . DOING SO WILL RESULT IN DAMAGE TO THE MACHINE.**

1. Position the dispensing head, autofill system and the condensing unit in the appropriate locations.
2. Cord connect as follows:  
Dispensing Head -12-3 electrical cord  
120V 15 amp service
3. Install precharged refrigeration copper lines from the dispensing head to the condensing unit. The copper tubes are soldered into the supplied quick connect / disconnect fittings, a 3/8" non-insulated copper for discharge (high side) and 5/8" insulated copper for the low side (suction).

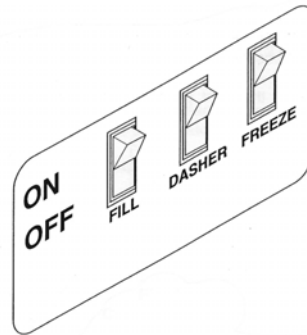


## CAUTION

**FAILURE TO PROVIDE FOR PROPER EARTH GROUND ACCORDING TO APPLICABLE ELECTRICAL CODES COULD RESULT IN SERIOUS ELECTRICAL SHOCK.**

4. A 3/8" barbed fitting is available on the back of the dispensing head for easy autofill installation. The product supply line should have the most pressure to the pan and not splash. Max pressure is 75 psi.

5. Install and activate the autofill systems to fill and satisfy the probes. The purge button on the faceplate must be depressed to relieve as much air from the system as possible. This is only required during initial filling or after cleaning.



**Fig. 2  
Control Switch**

# Disassembly and Cleaning

**CONSULT YOUR LOCAL HEALTH AGENCY FOR LOCAL CLEANING AND SANITIZING REQUIREMENTS.**

This unit does not come pre-sanitized from the factory. Before serving product, the dispenser must be disassembled, cleaned, lubricated, and sanitized. Please be aware that these instructions are general guidelines. Cleaning and sanitizing procedures must conform to local Health Authority requirements.

## Emptying Machine

Prior to the disassembly and cleaning of parts, the machine must be emptied of product. Use the following procedures (Steps 1 through 3). If this is first time operation, disregard these steps.



**DO NOT INSERT ANY OBJECTS OR TOOLS (FIG. 3) INTO THE MIX INLET HOLE, RESTRICTOR TUBE HOLE, OR FRONT PLATE DISPENSING HOLE WHILE THE MACHINE IS RUNNING. DAMAGE TO THE MACHINE OR PERSONAL INJURY MAY RESULT**

1. Set the dasher switch (Fig. 4) to the "ON" position, turn off the fill and freeze switches, and dispense all product from the freezing cylinder by pulling downward on the spigot handle (Fig. 5) to empty the machine.
2. Set the dasher switch (Fig. 3) to the "OFF" position. Close the spigot handle (Fig. 5) before proceeding to cleaning.

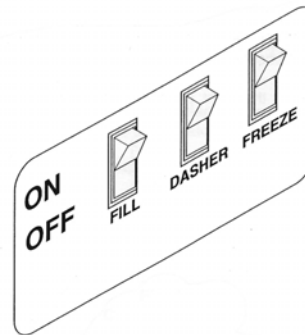


Fig. 4  
Control Switch

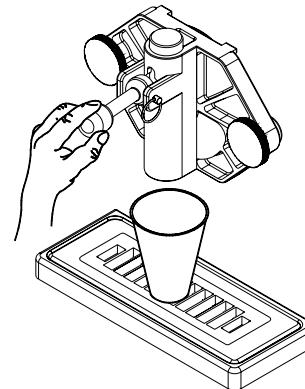


Fig. 5  
Dispensing Product

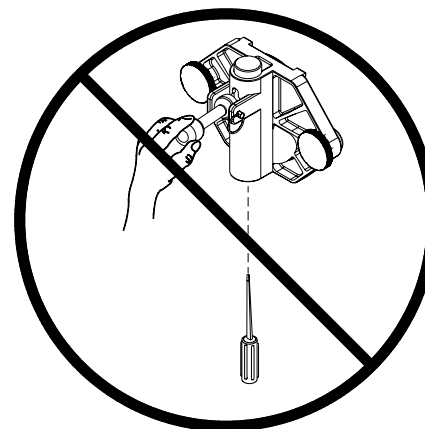
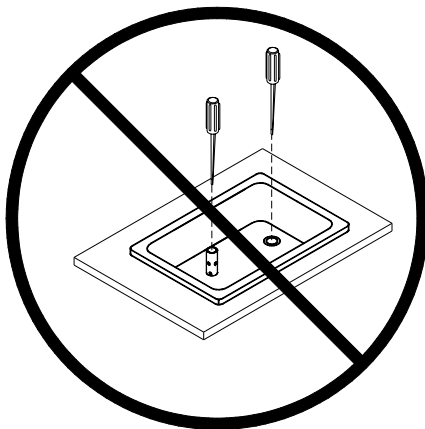


Fig. 3  
Do Not Insert Objects or Tools

## Disassembly and Cleaning Procedure

1. Fill the machine with cold water and set the dasher switch (Fig. 6) to the “ON” position. **DO NOT** use hot water which could damage the machine. Let the machine agitate 1 to 2 minutes, then drain the water by pulling downward on the spigot handle (Fig. 7). Repeat the above procedure as necessary to make certain all product is removed from the machine. After the machine is empty, set the dasher switch to the “OFF” position.

2. Prepare a suitable detergent and water solution at a temperature of approximately 125°F. (52°C.) to 130°F. (55°C.). For best cleaning results select a concentrated anti-bacterial dishwashing detergent containing biodegradable anionic and nonionic surfactants. **Avoid detergents containing phosphates. DO NOT** use an abrasive detergent on any part of the dispenser.

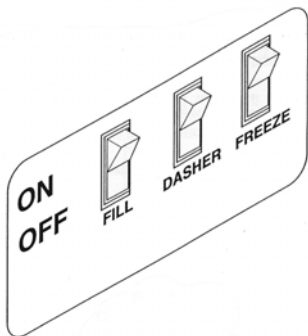


**CAUTION**

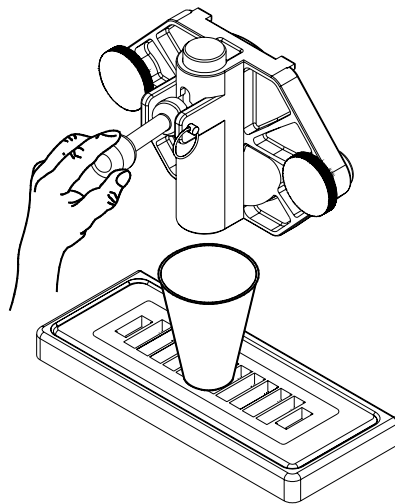
**DO NOT USE HOT WATER.  
DOING SO MAY DAMAGE THE MACHINE.**

3. Make certain that the machine is “OFF”. Fill the mix pan with the cleaning solution. Clean the mix pan thoroughly with a brush as the solution drains into the freezing cylinder(s). Clean the mix inlet tube(s) with the brush provided.

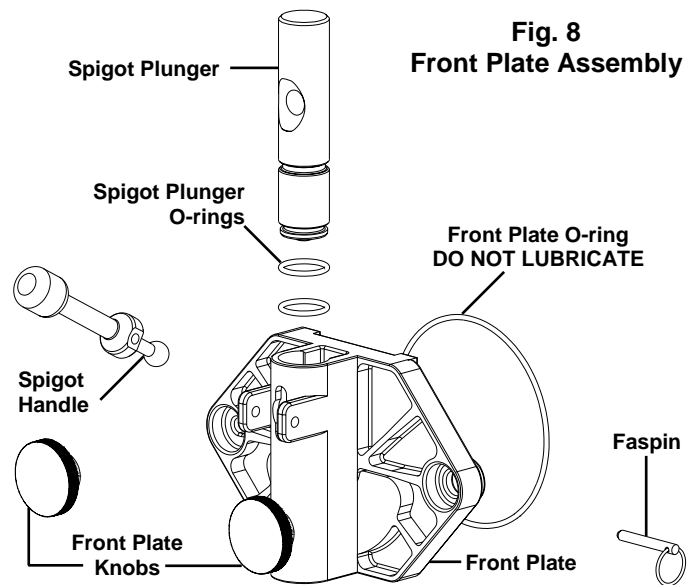
4. Set the dasher switch (Fig. 6) to the “ON” position and agitate for approximately 1 to 2 minutes and then drain the water by pulling down on the spigot handle (Fig. 7). After the unit is empty, set the dasher switch to the “OFF” position.



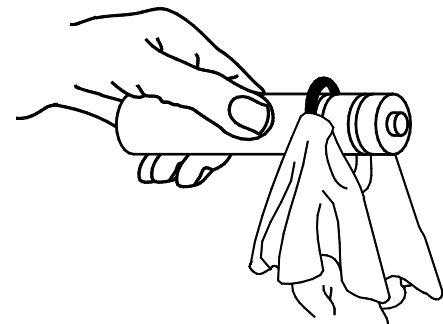
**Fig. 6  
Control Switch**



**Fig. 7  
Dispensing Product**



**Fig. 8  
Front Plate Assembly**



**Fig. 9  
O-Ring Removal**

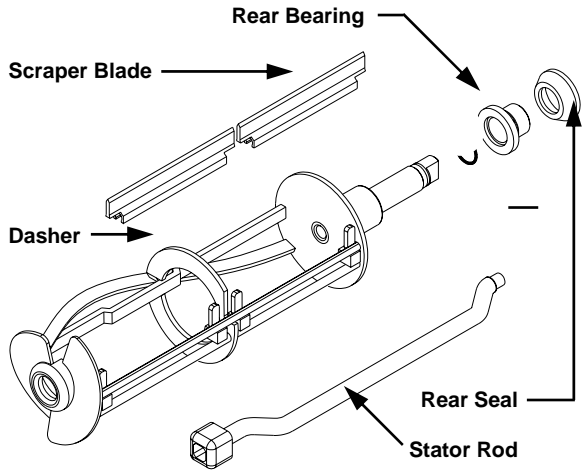
**CAUTION**

**DO NOT USE ANY TOOLS OR SHARP OBJECTS TO REMOVE ANY O-RINGS FROM THIS MACHINE. SHARP OBJECTS WILL DAMAGE THE O-RINGS.**

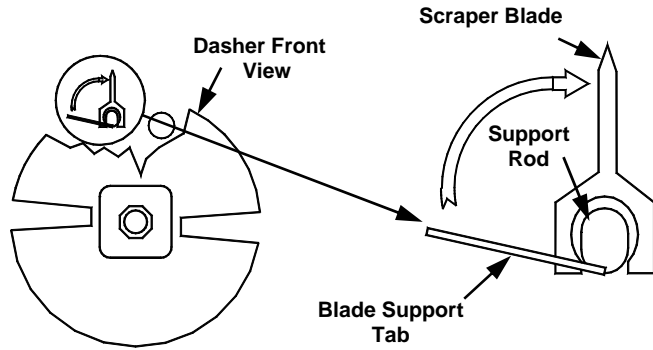
5. Remove the front plate by turning the black plastic knobs in a counterclockwise direction (Fig. 8). Disassemble the front plate in the following manner:

- Remove the faspin and spigot handle.
- Remove the front plate o-ring.
- With the spigot handle removed, push the spigot plunger out the top of the front plate and remove all lubricant from the spigot plunger.
- Remove the o-rings from the spigot plunger by grasping the part with one hand and with a dry cloth in the other hand, squeeze the o-ring upward. When a loop is formed, grasp the o-ring with the other hand and roll it out of its groove and off the spigot plunger (Fig. 9).

9. Remove the dasher assembly (Fig. 10) being careful not to damage the scraper blades, then disassemble in the following manner:
  - a. Remove and take apart the rear seal assembly.
  - b. Remove the stator rod from the dasher.
  - c. Remove the blades from the dasher (Fig. 10) by first rotating blade upward (Fig. 11) and then unsnapping one end from the support rod.
  - d. Remove o-ring from the rear of the dasher.



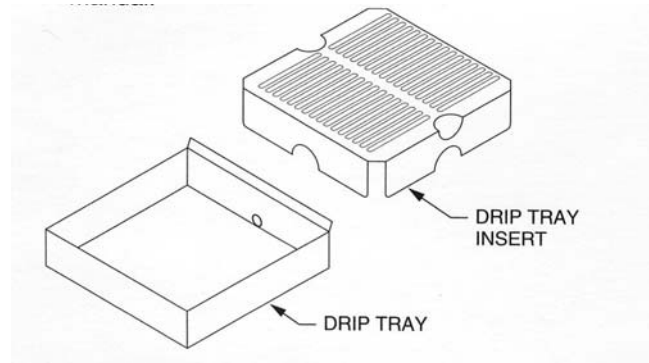
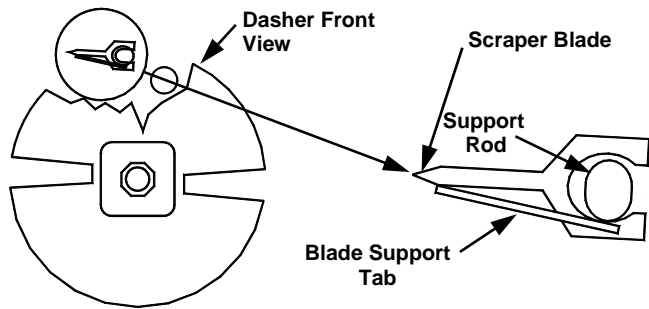
**Fig. 10**  
**Dasher Assembly**



**Fig. 11**  
**Scraper Blade Removal**

10. Remove the mix pan lid, drip tray and drip tray insert (Fig. 12).

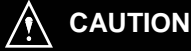
**BLADES MUST BE REMOVED FOR CLEANING**



**Fig. 12**  
**Drip Tray Assembly**

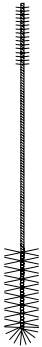
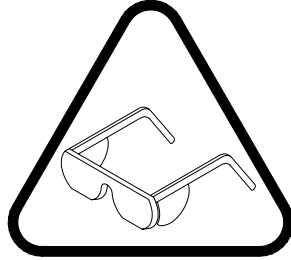
11. For best cleaning results select a concentrated anti-bacterial dishwashing detergent containing biodegradable anionic and nonionic surfactants.

**NOTE: Avoid detergents containing phosphates.**

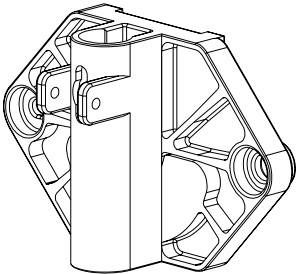


**WEAR SAFETY GLASSES  
- DO NOT SPLASH  
DETERGENT SOLUTION  
IN EYES**

Be certain to follow the manufacturer's mixing instructions when adding the dishwashing detergent concentrate to water.



**Fig. 13  
Clean ALL Holes and Ports  
with Brushes**



12. Place all parts in a three partition sink filled with the following solutions:

- In one partition, detergent solution diluted to the manufacturer's suggested concentration for use.
- In a second partition, clear rinse water.
- In a third partition, sanitizing rinse solution which will produce a 200 parts per million (PPM) Chlorine residual or whatever Chlorine residual is required by your Local Health Authority.

13. Use the brushes to clean all holes and ports in the parts (Fig. 13).



**DO NOT** use an abrasive detergent

14. After thoroughly washing the parts in the detergent solution, rinse them in the clear rinse water. Place the parts in the sanitizing solution for at least five minutes or whatever your Local Health Authority requires, and then air dry the parts before for assembly and lubrication.

**DO NOT ALLOW THE PARTS TO SOAK IN**



**SANITIZER FOR SEVERAL HOURS.  
DO NOT WIPE THE PARTS DRY - AIR DRY ONLY.**

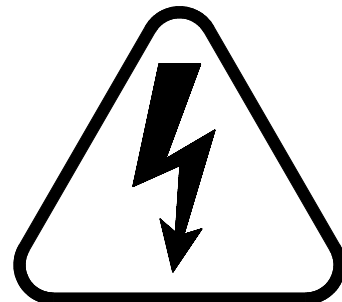
15. The remainder of the machine including the mix pan and freezing cylinder must be cleaned in place using a mild detergent solution followed by a clear rinse. Clean the exterior with a damp cloth.

**DO NOT** use an abrasive cleaner on the exterior of the machine or on any of the panels (guards).

**WHEN CLEANING THE MACHINE, DO NOT ALLOW**



**EXCESSIVE AMOUNTS OF WATER AROUND ANY  
ELECTRICALLY OPERATED COMPONENTS OF THE  
MACHINE. ELECTRICAL SHOCK OR DAMAGE TO  
THE MACHINE MAY RESULT.**



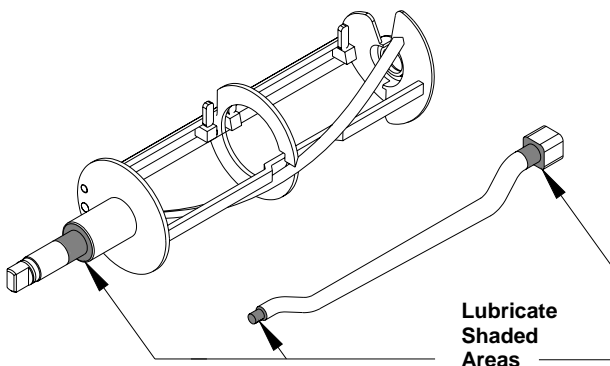
# Assembly and Lubrication

Use a food grade lubricant\* ONLY. Haynes Lubri-Film (SaniServ part number 1150) is recommended and is available from the factory or your local authorized SaniServ dealer or distributor. **Lubrication must be performed daily.**

\* The SaniServ recommended product is a colorless to white, odorless, tasteless food contact lubricant accepted by the United States Food and Drug Administration (FDA) with a USDA rating of H1 and certified for food contact by NSF International. Its useful temperature range is -15°F - 210°F (-26°C - 99°C) with a melt point of 93°C using ASTM D566 and a Saybolt viscosity of 55 at 210°F (99°C) when measured using ASTM D445

1. Lubricate and assemble the dasher assembly in the following manner:

- a. Apply a generous amount of lubricant to the shoulder of the dasher and the area of the shaft where the white plastic portion of the assembled rear seal contacts the shaft (Fig. 14). This is easily performed by running a 1/4" (6 mm) bead of lubricant around the shoulder of the dasher.
- b. Lubricate the two areas of the stator rod (Fig. 14) and slide the stator rod into the dasher (Fig. 15). Make certain that the end of the stator rod is inserted into the hole at the rear of the dasher.

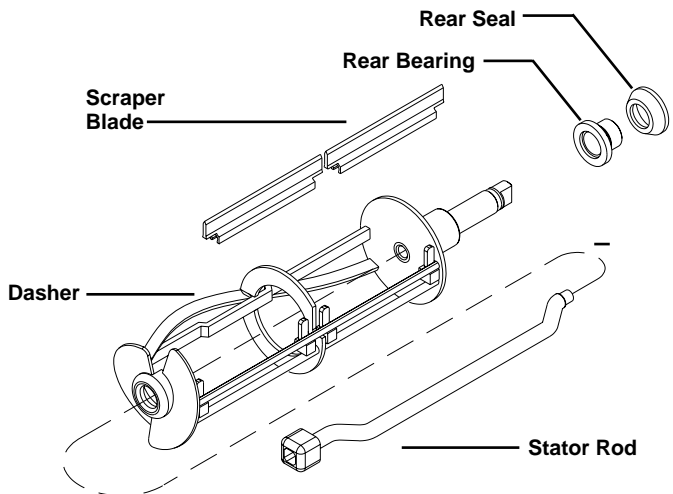


**Fig. 14**  
**Stator Rod and Dasher Lubrication**

**CAUTION**

- c. Assemble and install the rear seal with the rubber portion toward the rear of the freezing cylinder as indicated in Fig. 15.

**DO NOT LUBRICATE THE RUBBER PORTION OF THE REAR SEAL. LUBRICATION ON THE REAR SEAL WILL DAMAGE THE MACHINE.**

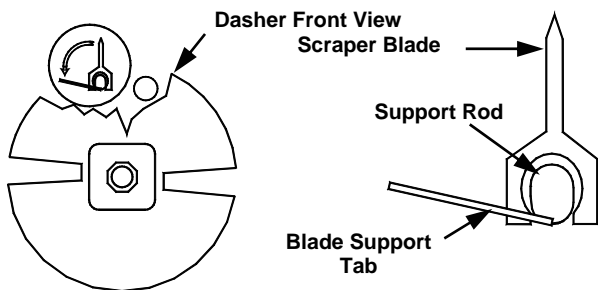


**Fig. 15**  
**Dasher Assembly**

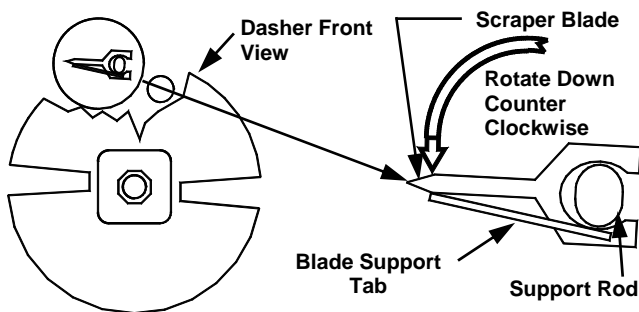
- f. Install the scraper blades onto the dasher assembly by holding the blades perpendicular to the tabs (Fig. 16) and then snapping them over the flat area of the support rod. Then rotate the blades downward in a counterclockwise direction as viewed from the front of the dasher (Fig. 17). **BE CERTAIN THAT THE SCRAPER BLADES REST UPON THE DASHER TABS.**

**Note:** Reverse the blades at each cleaning to maintain sharpness. In addition, the blades are equipped with a wear mark (Fig. 18). When the blade is worn to this wear mark, it must be replaced.

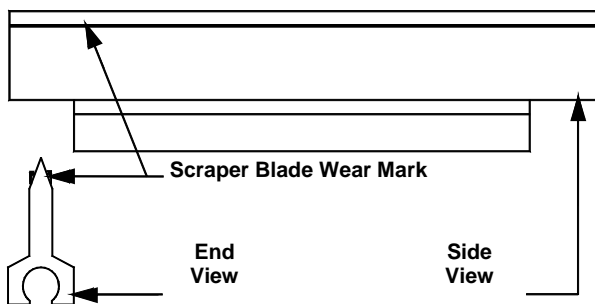
- g. Insert the dasher assembly into the freezing cylinder as far as possible (Fig. 19) being careful not to damage the scraper blades. Damage will occur to the scraper blades and the dispenser will not operate properly if the scraper blades are installed facing in a clockwise direction (Fig. 20).



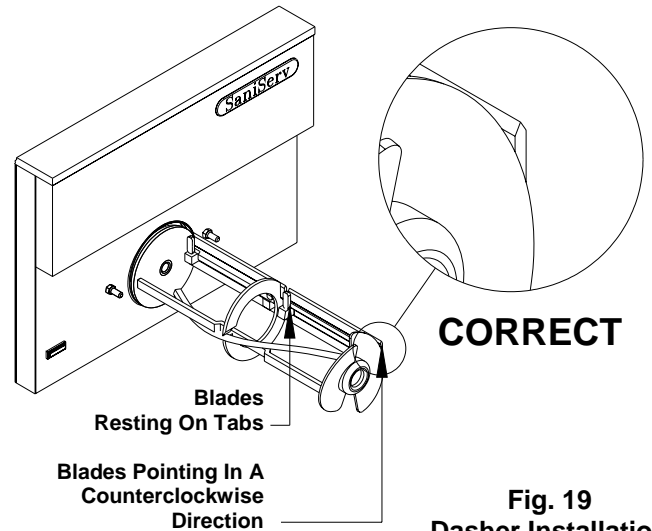
**Fig. 16**  
**Scraper Blade Installation**



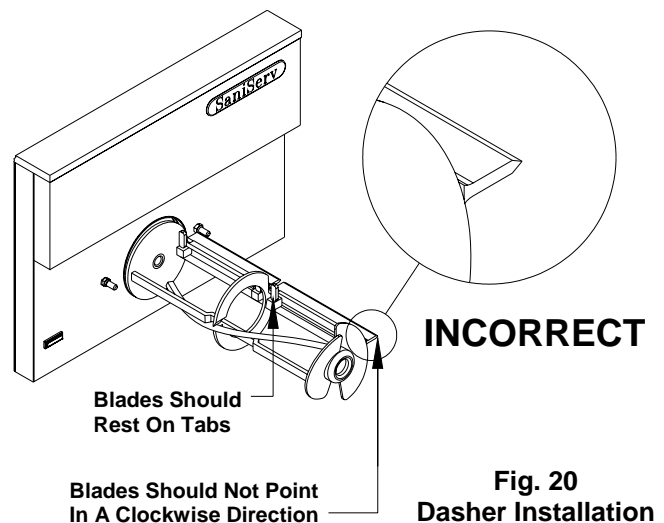
**Fig. 17**  
**Scraper Blade Installation**



**Fig. 18**  
**Scraper Blade Wear Mark**



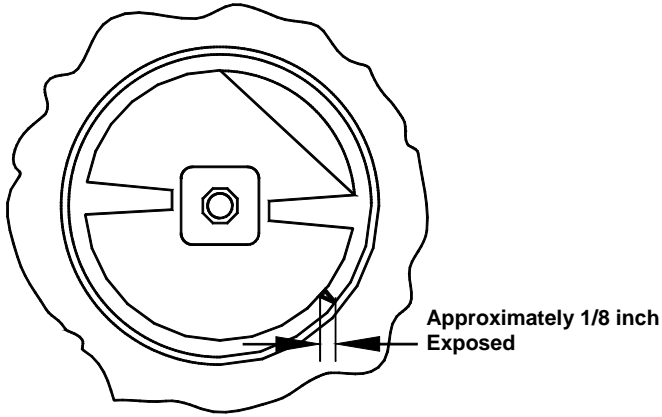
**Fig. 19**  
**Dasher Installation**



**Fig. 20**  
**Dasher Installation**

Note: The stator rod has been deleted from Fig. 19 and Fig. 20 for clarity only. The stator rod must be installed for proper machine operation.

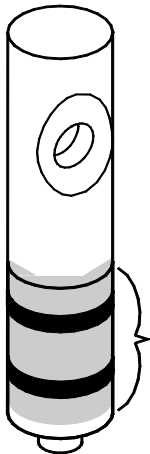
- h. While maintaining force against the dasher, rotate it slowly until the tongue of the dasher engages the groove in the drive system at the rear of the cylinder. The outer most portion of the dasher should be recessed approximately 1/4" (6 mm) to 3/8" (10 mm) inside the freezing cylinder. No part of the dasher should extend outside the cylinder. Scraper blades should be visible, extending approximately 1/8" (3 mm) beyond the dasher (Fig. 21).



**Fig. 21**  
**Dasher with Blade (Front View)**

2. Lubricate and assemble the front plate assembly in the following manner:

- a. Install the two o-rings on the spigot plunger by rolling them onto the plunger. Seat the o-rings in the grooves. Be certain that they are not twisted. Smooth the lubricant into the grooves and over the sides of the plunger assembly (Fig. 22).

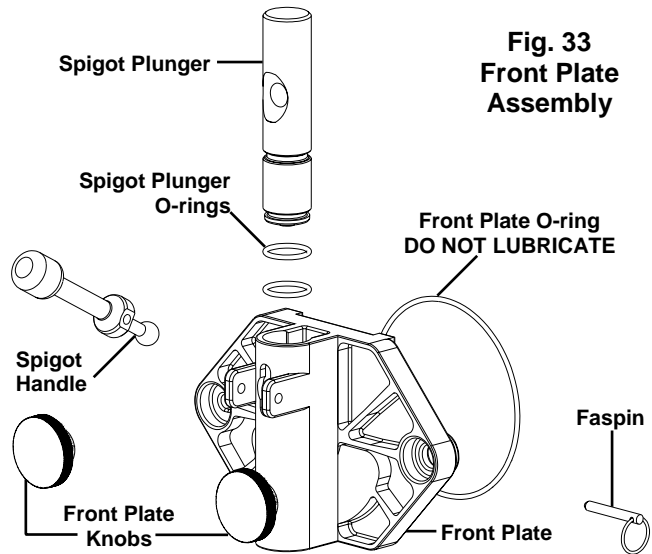


**Fig. 22**  
**Spigot Plunger Lubrication**

Lubricate Shaded Area

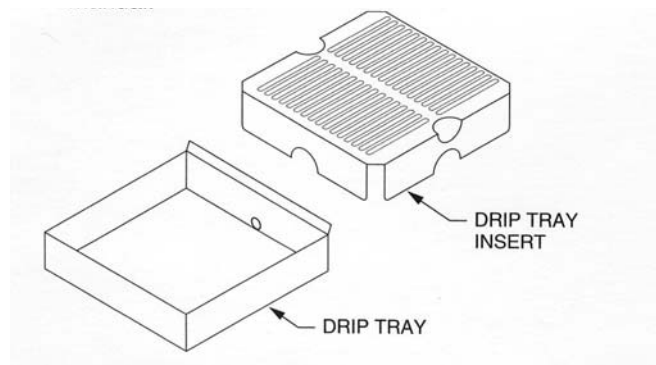
- b. Slide the lubricated spigot plunger into the front plate (Fig. 23) making certain that the spigot handle slot is aligned to the front.
- c. Insert the spigot handle and secure with the faspin.
- d. Install the front plate o-ring.

**DO NOT LUBRICATE THE FRONT PLATE O-RING**



**Fig. 23**  
**Front Plate Assembly**

- e. Secure the front plate assembly with the two plastic knobs. Simultaneously, turn the knobs in a clockwise direction. Tighten the knobs evenly. **DO NOT** tighten one knob all the way down and then the other. Doing so may result in front plate breakage. Only moderate force is required. **DO NOT** over tighten. Close the spigot plunger.
3. Install the drip tray and drip tray insert (Fig. 24).
4. Proceed to the “**Sanitizing**” section of this manual.



**Fig. 24**  
**Drip Tray Assembly**

# Sanitizing

Prior to operation, the machine must be sanitized. The unit must have already been cleaned and lubricated.

**Note: Sanitize immediately before use, not several hours before or the previous evening.**

1. First, wash hands with a suitable antibacterial hand soap. For best results select a concentrated anti-bacterial hand soap containing biodegradable anionic and nonionic surfactants.

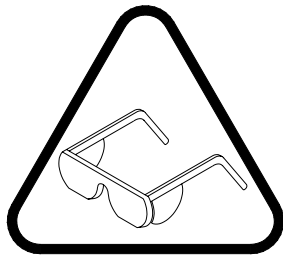
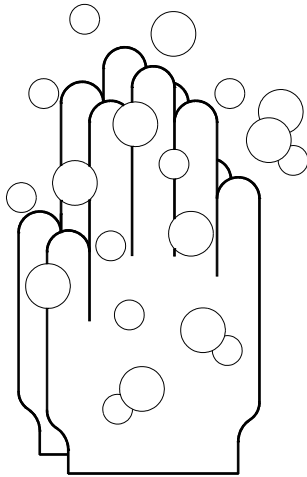
2. Prepare approximately 2 to 3 gallons (8 to 12 liters) of sanitizing solution equivalent to 200 ppm chlorine residual or the residual required by your local health agency.

3. Carefully pour the solution into the mix pan.

4. Using a sanitary brush, wipe the solution onto the sides of the mix pan, over the mixout probe in the bottom of the mix pan, and the underside of the mix pan lid.

5. Set the dasher switch (Fig. 25) to the "ON" position and let the unit agitate for approximately three to five minutes.

**NOTE: DO NOT** set the freeze switch to the "ON" position. Doing so would freeze the sanitizing solution and may result in damage to the machine.



**WARNING**

**DO NOT INSERT ANY TOOLS OR OBJECTS INTO THE MIX INLET HOLE, RESTRICTOR TUBE HOLE, OR THE DISPENSING HOLE IN THE FRONT PLATE. DAMAGE TO THE MACHINE OR PERSONAL INJURY MAY RESULT (FIG. 26)**

6. Set the control switch to the "OFF" position and drain the solution from the machine. Proceed directly to the "Operation" section of this manual.

**WARNING**

**DO NOT RINSE OUT THE MACHINE.**

**DO NOT ALLOW SANITIZING SOLUTION TO REMAIN IN THE MACHINE FOR SEVERAL HOURS. DOING SO COULD DAMAGE THE MACHINE.**

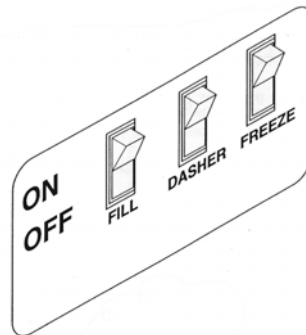


Fig. 25  
Control Switch

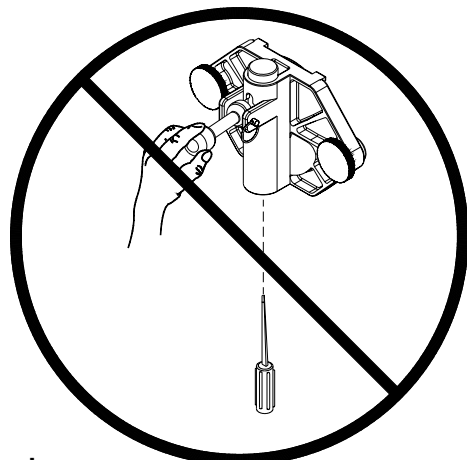
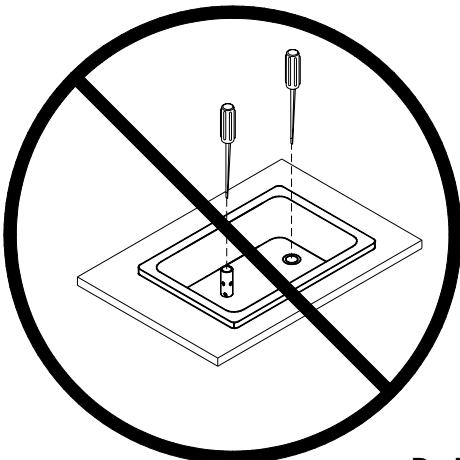
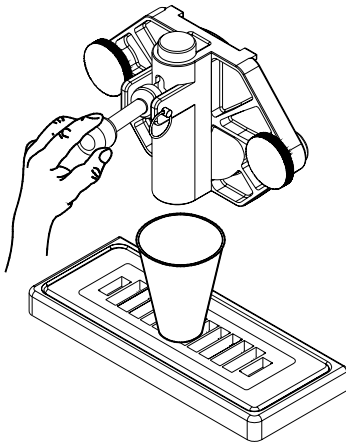


Fig. 26  
Do Not Insert Objects or Tools

# Operation (Filling and Starting)

Always start with a cleaned and sanitized dispenser as per previous instructions. Use only fresh mix when filling the units. Following these instructions is critical to the maximum operating efficiency of the machine.

1. Set the Control Switches to the "OFF" position..
2. Place a 16 oz. cup under the spigot and open the spigot handle (Fig 27). Turn on the fill switch. (This will chase the sanitizing solution from the mix pan and freezing cylinder.) Close the spigot handle when the sanitizer is purged from the system.



**Fig. 27**  
**Dispensing Product**

3. Hold in the vent button on the front plate until product begins to flow from the valve, then release the button.

**Note:** Air must be purged from the system.

A **MIXOUT** light (Fig. 28) located on the front of the machine is activated when the mix solution drops to a potentially damaging level.

Turn off the fill switch and fill the supply tank. Turn the fill switch back on.



**Fig. 28**  
**MIXOUT Light**

- 4 Set the three control switches to the "ON" position to start the machine.

5. Allow the compressor to cycle 3 or 4 times dispensing a sample of the product after each cycle to check for consistency. If the machine is not dispensing the product at the desired consistency after four full cycles, refer to the Consistency Control Section of this manual. Initial pull-down time is 20-30 minutes, but it may vary due to product and ambient conditions.

6. Replace the mix pan lid and always operate the machine with the lid on the mix pan reservoir.

**Note:** SaniServ dispensers are designed to run frozen beverage products having a Brix (sugar content) range of 12.5 to 14 with a dispense temperature of 26°F to 28 °F (-3.3°C to -2.2°C).

Brix reading is taken by placing a small sample of normally diluted concentrate on the viewer of a refractometer. If a refractometer is not available, contact the mix supplier.

**Do not use a mix with a Brix reading of less than 12.5. Doing so may result in serious damage to the machine.**

If the Brix reading is above 14.0 or the alcohol content is too high, the freezing point of the solution may be too low to form slush.

**DO NOT ATTEMPT TO MAKE FROZEN BEVERAGE USING ARTIFICIALLY SWEETENED PRODUCT.**

# Helpful Hints

**Front Plate:** This component is the plastic device from which the product is dispensed. It is designed and manufactured for strength and durability. However, through improper use, the front plate can be damaged. Use the following information for proper care:

- a. Do not over tighten the knobs.
- b. Always tighten knobs evenly. Do not attempt to turn one knob all the way down and then one of the other three knobs. Doing so will bind the front plate and could result in breakage.
- c. Improper installation of the stator rods can cause breakage. The stator rods must be properly seated in the dasher before installing the front plate. If the stator rods are improperly installed, subsequent tightening of the knobs will break the front plate.
- d. **DO NOT** attempt to wash the front plate or any other components in a dishwasher.

**Drip Tray:** This should be removed daily and cleaned to remove residue.

**Mix Pan Lid:** Be certain to leave the lid in place on top of the machine to prevent any foreign materials from contaminating the mix.

**Mixing:** Make certain that the product mix is prepared according to label instructions.

**Sanitizing:** Do not soak plastic parts in sanitizer overnight. Doing so can cause the plastic parts to become brittle and lead to premature failure.

**Winter Storage:** To protect the unit during seasonal shut-down, it is important that the dispenser be stored in the proper manner. Use the following procedures:

1. Turn off **ALL** power to the machine.
2. Wash all parts that come in contact with the mix with a warm mild detergent solution. Rinse in clear water and dry parts thoroughly.
3. Store the loose parts such as the mix pan components, front plate parts, and the dasher assembly parts outside of the machine.
4. Do not lay heavy objects on the plastic or rubber parts.
5. Cover the machine and all loose parts to protect them from dust or other contaminants while in storage. Place the machine in a dry location.

# Consistency Adjustment

## CAUTION !

This machine is designed with an electronic control board to manufacture **Frozen Slush Beverage Only!** Do not attempt to operate the machine with soft serve and or shake type products. Operating unit with soft serve or shake products will damage the machine and factory warranty will be voided.

**DO NOT ADJUST THE MACHINE!**  
**Improper consistency is due to improperly mixed product**

This equipment has been tested at the factory with slush product and has been shipped with FACTORY PRE-SETS. Non-Alcoholic beverage temperature will range from 25-28 degrees. Alcoholic beverage temperature will range from 17-22 degrees. If you feel a consistency adjustment is needed, check the temperature of the dispensed product before making an adjustment. If your product is within these temperature ranges and the consistency is incorrect, you may have improperly mixed product.

ADJUSTING THE MACHINE TO COMPENSATE FOR IMPROPERLY MIXED PRODUCT MAY CAUSE PRE-MATURE COMPONENT FAILURE AND MAY VOID WARRANTY.

Consistency adjustment is done by adjusting the potentiometer on the electronic control board (ECB). The ECB is located behind the front wiring box cover above the front dispensing plate.

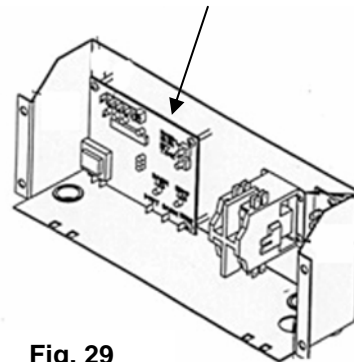
**CAUTION  
BEFORE PROCEEDING  
DISCONNECT THE POWER**

1. Remove two Phillips screws on the underneath side of the wiring box cover. The ECB is located on the left side of the wiring box as show in Fig. 29.
2. Locate the black potentiometer labeled **HARDNESS** as shown in Fig. 30. By turning the potentiometer to the right (clockwise) it will increase the thickness and lower the product temperature. Turning the potentiometer to the left (counter clockwise) will decrease the thickness and raise the temperature.
3. Reinstall the wiring box cover and reconnect the power.
4. Run the unit with product and allow the refrigeration system to cycle **TWO** times.
5. Draw product from the machine and check for desired consistency.
6. Repeat procedure if required.

**NOTE: ONLY TURN THE POTENTIOMETER IN SMALL INCREAMENTS.**

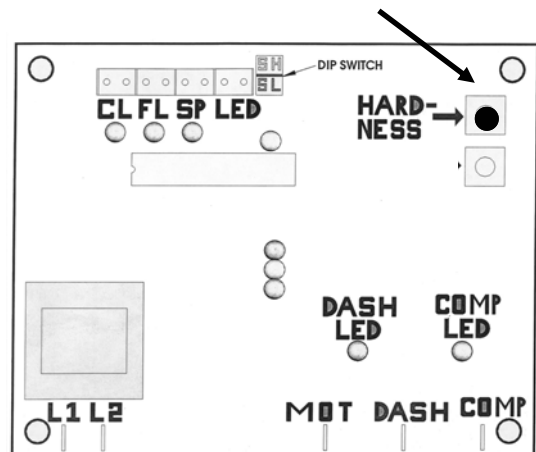
If you cannot adjust the product consistency to your desired thickness, contact your local **Certified SaniServ Service Provider**.

Electronic Consistency Control



**Fig. 29  
Wiring Box**

**Fig. 30  
Hardness Control**



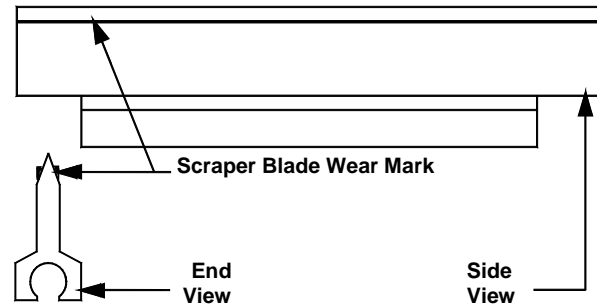
# Routine Maintenance (Owner-Operator)

## WARNING

**DISCONNECT THE MACHINE FROM ITS POWER SOURCE(S) BEFORE PERFORMING ANY ROUTINE MAINTENANCE. PERSONAL INJURY OR DAMAGE TO THE MACHINE COULD RESULT IF THIS PRACTICE IS NOT OBSERVED.**

**Daily:** Inspect the machine for signs of product leaks past seals and gaskets. If proper assembly does not stop leaks around gaskets or seals, check for improper lubrication and worn or damaged parts. Replace parts as needed.

**Periodically:** Inspect the scraper blades (Fig. 31) to see that they are straight and sharp. If worn, damaged or warped, the blades will not scrape the cylinder walls correctly and the freezing capacity will be reduced. Clean the drip chute assembly with warm water and detergent solution.



**Fig. 31**  
**Scraper Blade Wear Mark**



# Routine Maintenance (Trained Service Technician)

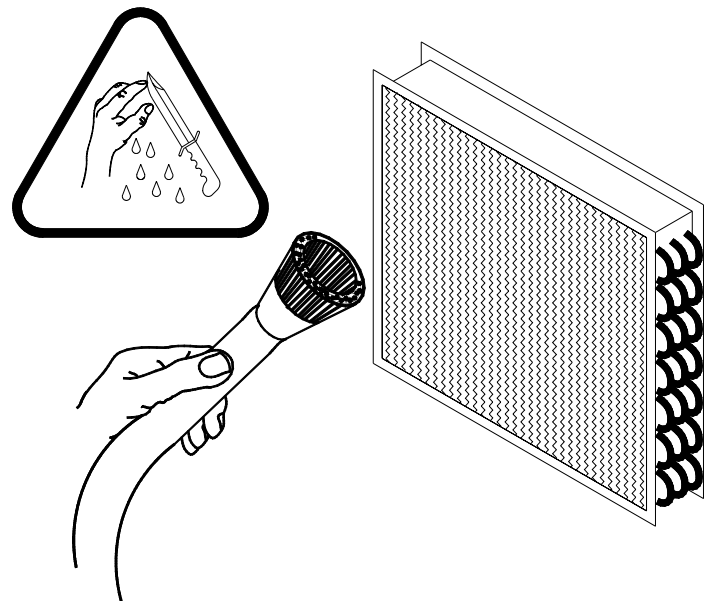


## WARNING

**CONDENSER FINS ARE VERY SHARP  
USE EXTREME CAUTION WHEN CLEANING**

**Quarterly:** Thoroughly clean the condenser fins on all air-cooled machines. Remove all lint and dust with a vacuum cleaner or compressed air (Fig. 32) to clean fins. A dirty condenser greatly reduces refrigeration capacity and efficiency. When using compressed air, place a damp cloth on the opposite side of the condenser to catch the flying dirt or lint.

**Annually:** Check the belts for signs of wear or cracking. Remove panels and clean all parts inside of the machine including the base, side panels, fan blades, condensers, etc.



**Fig. 32**  
**Clean Sharp Condenser Fins**

Please make these simple checks prior to contacting your service provider. Because adjustments to the machine are not covered under the terms of warranty, these tips can save you time and money. If you feel you are not comfortable performing trouble-shooting suggestions, please contact your local certified service provider.

<b>Machine will not start</b>	<ul style="list-style-type: none"> <li>✓ Make sure electrical cord is correctly seated in the electrical receptacle.</li> <li>✓ Check circuit breaker in electrical panel.</li> </ul>
<b>Product is Soft</b>	<ul style="list-style-type: none"> <li>✓ Do not make a consistency adjustment at this point. Always check product temperature first. Should be between 25-28 degrees non-alcoholic frozen beverage and 18-22 degrees alcoholic frozen beverage. See <b>Product Breakdown</b> in glossary section. Replace with fresh product. If using a frozen beverage product and temperature is lower than listed, product has too much sugar, alcohol or combination. Correct ingredients and start with freshly mixed product.</li> <li>✓ Check for properly <b>mixed product</b>. Replace as necessary</li> <li>✓ If using <b>Re-run</b> product, remove product and add fresh mix.</li> <li>✓ Check for dull <b>scraper blades</b>. Blades should be sharp. Replace every 6 months.</li> <li>✓ Check <b>Condenser</b> for dirt or obstructions. See Quarterly Maintenance</li> <li>✓ Confirm that the condenser fan is running.</li> <li>✓ Confirm 6" of airflow on all both sides and back of machine.</li> <li>✓ High <b>ambient temperature</b>. Recommended machine ambient temperature not to exceed 82 degrees.</li> </ul>
<b>Product is too Thick</b>	<ul style="list-style-type: none"> <li>✓ Check for properly <b>mixed product</b>.</li> <li>✓ Confirm <b>freezing cylinder</b> is not starved of product. See glossary (<b>Starved Cylinder</b>)</li> <li>✓ Check product temperature. Should be between 25-28 degrees non-alcoholic frozen beverage and 18-22 degrees alcoholic frozen beverage.</li> <li>✓ Check for missing scraper blade or stator rod. Check dasher assemblies.</li> <li>✓ Restrictor tube installed in rear hole. Install in front hole of mix-pan reservoir.</li> </ul>
<b>Front Plate Leaking</b>	<ul style="list-style-type: none"> <li>✓ Confirm <b>front plate</b> o-ring is not ripped or torn. Replace if necessary. Replace seals and o-rings every six months.</li> <li>✓ Do not lubricate <b>front plate</b> o-ring.</li> <li>✓ Confirm <b>spigot plunger</b> o-rings are not ripped or torn. Replace if necessary. Replace every six months.</li> <li>✓ Confirm spigot plunger o-rings are lubricated daily.</li> <li>✓ Tighten <b>front plate</b> knobs evenly.</li> <li>✓ Confirm <b>stator rod</b> is not worn or grooved.</li> </ul>
<b>Product leaking from the drip chute and or drip tube.</b>	<ul style="list-style-type: none"> <li>✓ <b>Rear Seal</b> is worn. Replace. Note: Replace seals, o-rings and gaskets every six months.</li> <li>✓ Do Not Lubricate the rubber portion of the <b>rear seal</b></li> <li>✓ The shaft of the <b>dasher</b> where the rear seal is installed must be lubricated daily.</li> <li>✓ Confirm <b>stator rod</b> is not worn or grooved.</li> <li>✓ Front plate knobs loose.</li> </ul>
<b>Squeaking , chirping noises and or vibration heard.</b>	<ul style="list-style-type: none"> <li>✓ Use properly <b>mixed product</b>. Replace as necessary.</li> <li>✓ Confirm <b>freezing cylinder</b> is not starved of product. See glossary (<b>Starved Cylinder</b>)</li> <li>✓ Check lubrication</li> <li>✓ Confirm all panel screws are installed and tightened</li> <li>✓ Adjust width of drip tray bracket.</li> <li>✓ Check for dull <b>scraper blades</b>. Blades should be sharp. Replace every 6 months.</li> </ul>
<b>Who to contact for service and parts</b>	<ul style="list-style-type: none"> <li>✓ If you do not have a local service and parts provider, contact your SaniServ Dealer/Distributor. Visit <a href="http://www.saniserv.com">www.saniserv.com</a> to locate a Distributor (Sales Section) or a Service Agent (Technical Support Section).</li> </ul>

**Note: Refer to glossary for those items selected in bold.**

## Trouble Shooting Glossary

**Ambient Temperature.** The temperature of the air in the immediate vicinity of the operating machine. High ambient temperature can reduce the capacity with an air-cooled condenser.

**Capacity.** The total capacity of frozen product that a freezer can produce in a given period usually stated in gallons per hour (G.P.H.).

**Condenser.** The part of the refrigeration mechanism that receives hot, high-pressure refrigeration gas from the compressor and cools gaseous refrigerant until it returns to a liquid state.

**Consistency.** The viscosity or thickness of the product in the freezing cylinder.

**Consistency Control.** A control that senses the thickness or viscosity of the product in the freezing cylinder.

**Dasher.** The part of the freezer that scrapes frozen product off the inside of the freezing cylinder and blends the product. In a gravity freezer, this assembly also moves the product forward to be dispensed.

**Front Plate.** Seals the front of the freezing cylinder and provides a means for dispensing the product. On gravity fed freezers, the front plate indirectly holds the dasher in place via the stator rod. It also provides compression for the rear seal.

**Front Plate Pressure Relief Valve.** Spring-loaded button located on the front plate when depressed will allow air to escape from the cylinder. Used only on specific frozen beverage machines.

**Freezing Cylinder.** The part of the refrigeration mechanism in which the refrigerant vaporizes and absorbs heat. This is the part of the freezer where the liquid product is frozen.

**Mix-pan.** Is the top container that product is poured into. It is used as storage until product is needed for the freezing cylinder.

**Mixing Product / Product Temperatures.** If your using a product that has to be mixed with water or other ingredients, it is imperative the product is mixed consistently everyday. If not, the machine will not run consistent and could possibly damage components. Always mix to the product manufactures recommendations. The machine is designed to operate with a frozen product that falls within these temperatures (non-alcoholic frozen beverage 25-28 degrees and alcoholic frozen beverage 18-22 degrees).

**Rear Seal.** This part is stationary during operation and must not move. When installed and lubed properly, seals mix in cylinder. When installed and lubed improperly, it causes main shafted bearing failure.

**Scraper Blades.** The component that scrapes the frozen product from the freezing cylinder surface. Blades must be sharp, as dull blades will leave product on the freezing cylinder, insulating the mix from the refrigerant.

**Spigot Plunger.** The mechanism on the front plate through which the product is dispensed.

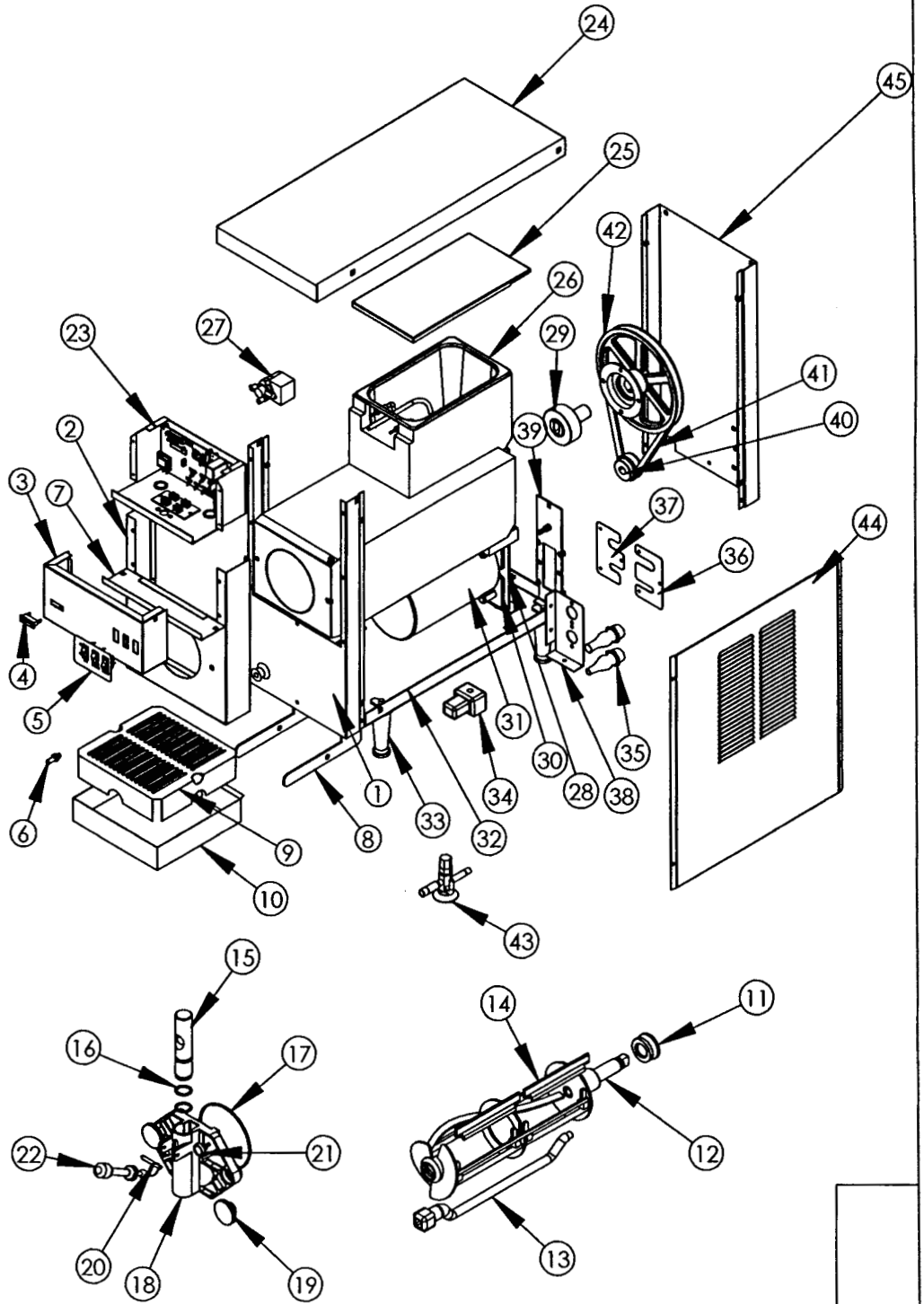
**Starved Cylinder.** A starved cylinder is often mistaken for a freeze up or product too thick. A starved cylinder (starving) is created when a larger percentage of frozen product is dispensed from the freezing cylinder than the percentage of liquid product entering the freezing cylinder from the mix-pan. There are several causes of starving.

1. **Overdrawing:** Dispensing more product from the machine than it's designed to do. This would occur if a machine were undersized for its application.
2. **Mix out light not working** therefore not alerting operator the need to add product.
3. **Pouring frozen or semi frozen product** into the mix-pan reservoir. This will form a blockage in the restrictor tube and not allow liquid product to flow into the cylinder.
4. **Mix-pan too cold,** allowing product to freeze in mix-pan and restricting product flow.
5. **Restrictor tube installed into the rear hole,** should be installed in the front hole of the mix-pan reservoir.

**Stator Rod.** Acts as a bearing surface. Helps enfold air for overrun. Transmits compression to the rear seal. Helps mechanical torque system sense torque. Be sure to lubricate.

PARTS LIST  
(115V, 1PH, 60 Hz)  
WB700J

- 1. Front Panel ..... 110125
- 2. Upper Front Panel ..... 110126
- 3. Wiring Box Cover ..... 110130
- 4. Mixout Light ..... 70423
- 5. Switch (3) ..... 70151
- Decal, Switch ..... 9584
- 6. Stud, Front Plate (2) ..... 7107
- 7. Bottom, Wiring Box Cover ..... 110128
- 8. Drip Tray Basket ..... 108623
- 9. Drip Tray Insert ..... 108624
- 10. Drip Tray ..... 108620
- 11. Rear Seal ..... 108541
- 12. Dasher ..... 3113-01
- 13. Stator Rod ..... 65633
- 14. Scraper Blade (2) ..... 104984
- 15. Spigot Plunger ..... 105503
- 16. O-Ring, Spigot (2) ..... 58923
- 17. O-Ring, Front Plate ..... 58911
- 18. Front Plate w/ valve ..... 105610
- 19. Knob, Front Plate (2) ..... 64065
- 20. Pin, Spigot Handle ..... 64255
- 21. Vent Valve Assy ..... 105612
- O-Ring Vent Plunger ..... 58952
- Screw, Valve ..... 60335
- Knob ..... 64420
- Spring, Vent Plunger ..... 64508
- 22. Spigot Handle ..... 65632-01
- 23. Wire Box Assembly ..... 15876
- Wiring Box Lid ..... 110131
- 24. Top Cover ..... 110133
- 25. Mix Pan Cover ..... 108208
- 26. Evaporator & Mix Pan Assy ..... 110134
- Drip Pan ..... 107242
- Drain Tube ..... 110135
- Drain Tube Nozzle ..... 109967
- 27. Product Solenoid ..... 65682
- 28. Evaporator Support ..... 110127
- 29. Bearing & Shaft Assy ..... 2858
- 30. Motor Mounting Gasket ..... 102427
- Motor Mounting Saddle ..... 104267
- 31. Dasher Motor ..... 75845
- 32. Base ..... 110124
- 33. Leg (4) ..... 64135
- 34. Solenoid Valve, Refrig. ..... 71079
- Coil, Solenoid ..... 71078
- 35. 3/8" Male Connector ..... 65637
- 5/8" Male Connector ..... 65638
- 3/8" Female Connector ..... 65639
- 5/8" Female Connector ..... 65640
- Mounting Flange, Connector ..... 65641
- 36. Left Hand, Cover Bracket ..... 108626
- 37. Right Hand, Cover Bracket ..... 108627
- 38. Refrig. Line Bracket ..... 107065
- 39. Product Line Bracket ..... 108716
- 40. Drive Pulley ..... 10653
- 41. Belt ..... 58857
- 42. Driven Pulley ..... 10654
- 43. Expansion Valve ..... 71151
- 44. Side Panel (2) ..... 110132
- 45. Rear Panel ..... 110129

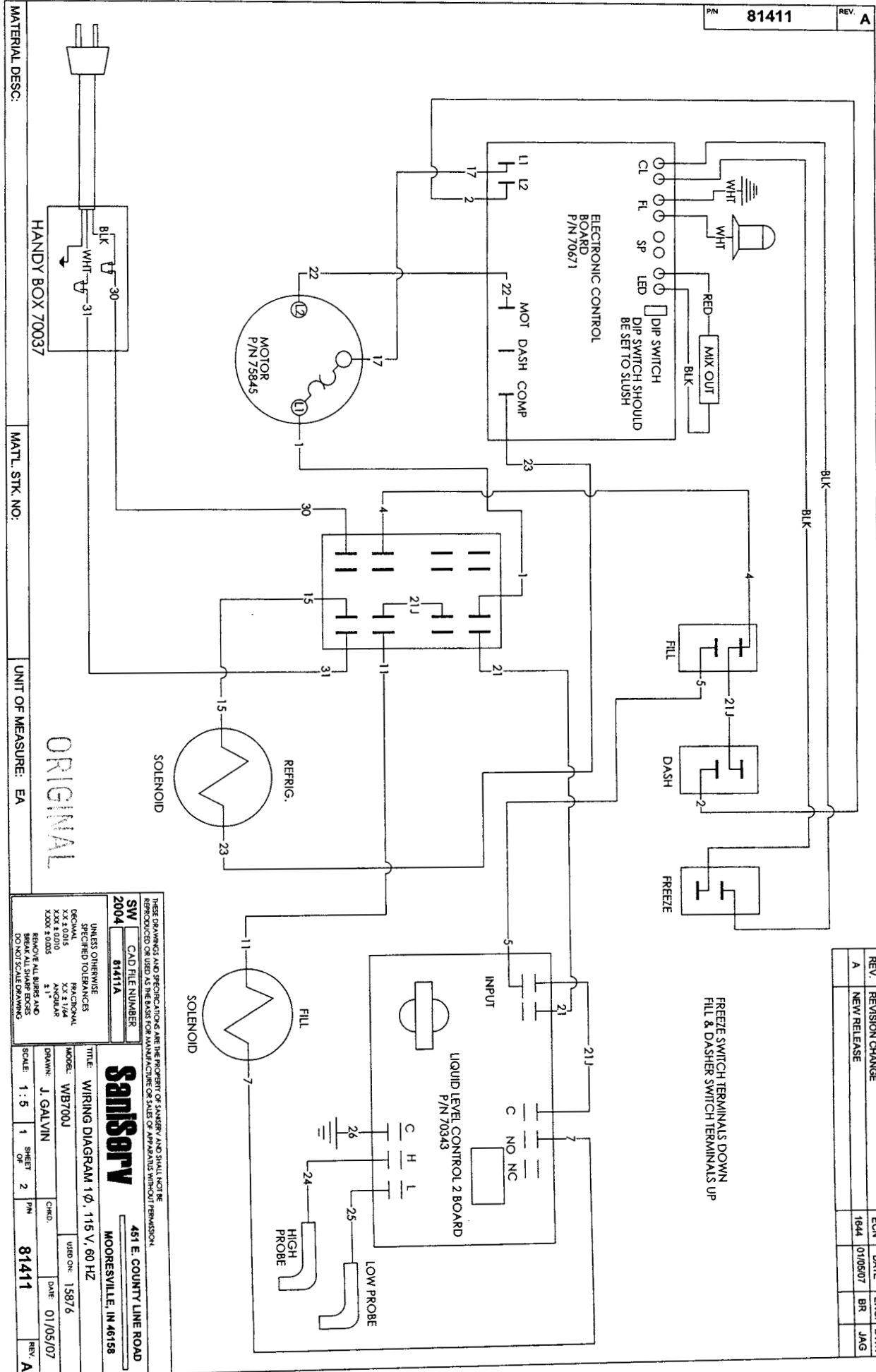


ORIGINAL

181070

SaniServ	Model WB700J	BOM 7000363	
	Description 115 V, 1 PH, 60 Hz	File 181070A.SLDDRW	
Exploded View	Wiring Box 15876	ECN 1644	Date 01/05/07
	Wiring Dia. 81411	Sheet 1 of 1	

A



MATERIAL DESC: **ORIGINAL**  
 MATL. STK. NO.:  
 UNIT OF MEASURE: EA

REV.	REVISION CHANGE	ECN	DATE	ENG	DWN
A	NEW RELEASE	1644	01/05/07	BR	JAG

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMAL FRACTIONAL  
 XX.X (0.01) XX.X (1/64)  
 X.XXX (0.005) 5.1 (3/64)  
 REMOVE ALL BURRS AND  
 BREAK ALL SHARP EDGES  
 DO NOT SCALE DRAWING

2004 CAD FILE NUMBER 81411A

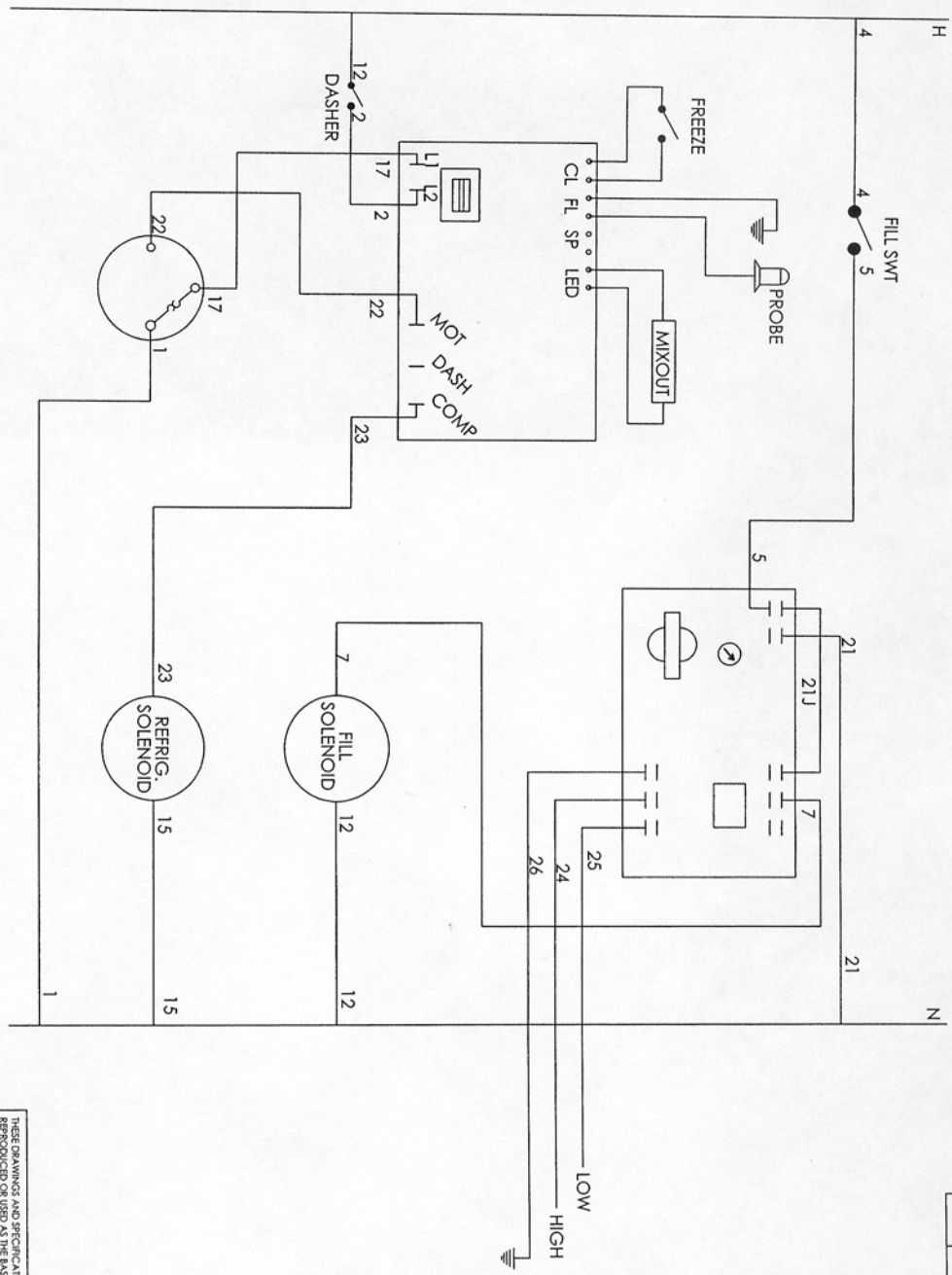
**Sanisorv**  
 451 E. COUNTY LINE ROAD  
 MOORESVILLE, IN 46158

MODEL: WB700J  
 DRAWN: J. GALVIN  
 SCALE: 1:5  
 SHEET 2 OF 2

DATE: 01/05/07  
 P/N 81411  
 REV. A

MATERIAL DESC: MATL. STK. NO: UNIT OF MEASURE: EA

ORIGINAL



REV.	REVISION CHANGE	ECN	DATE	ENG.	DWN
A	NEW RELEASE	1644	01/05/07	BR	JAG

UNLESS OTHERWISE SPECIFIED TOLERANCES:  
 DECIMAL XX ± 0.015  
 FRACTIONAL XX ± 1/64  
 ANGULAR ± 1°  
 REMOVE ALL BURRS AND DO NOT SCALE DRAWING

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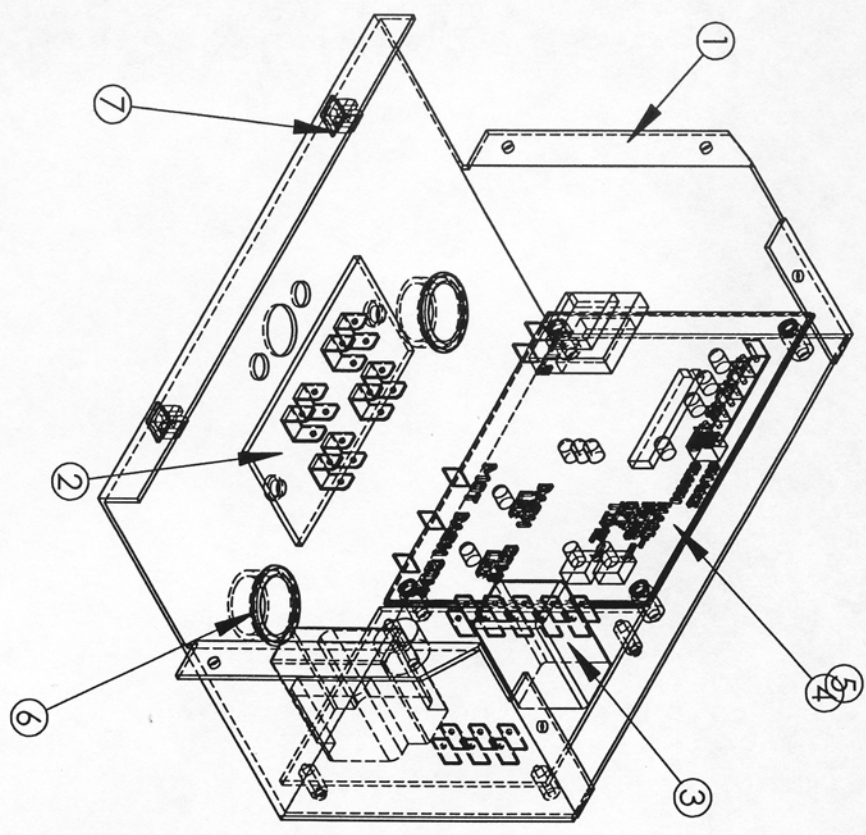
**Saniserv**  
 451 E. COUNTY LINE ROAD  
 MOORESVILLE, IN 46158

TITLE: WIRING DIAGRAM 1 φ, 115 V, 60 HZ  
 MODEL: WB700J  
 DRAWN: J GALVIN  
 SCALE: 1 : 5

USED ON: 15876  
 DATE: 01/05/07

2 SHEET OF 2 P/N 81411 REV. A

MATERIAL: \_\_\_\_\_ STOCK NO. \_\_\_\_\_ UNIT OF MEASURE: EA. P/N **15876** REV. A



PC.	PART No.	DESCRIPTION	QTY.
1	110123	WIRE BOX	1
2	61073	TERMINAL BOARD	1
3	70343	LIQUID LEVEL CONTROL 2 BOARD	1
4	70671	ELECTRONIC BOARD 115/60/1	1
5	70654	3/8" STANDOFF	4
6	61132	BUSHING, SNAP 7/8"	2
7	59973	GROMMET, NUT	2

ORIGINAL

FOR REFERENCE:  
 WIRE DIAGRAM : 81411  
 WIRE CUTLIST : 13459

REV.	REVISION CHANGE	ECN	ENG	DR	DATE
A	NEW RELEASE	1644	JMP	JAG	01/05/07

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**2004** 15876A

UNLESS OTHERWISE SPECIFIED TOLERANCES  
 DECIMAL XX ±0.015 FRACTIONAL XX 31/64  
 ANGULAR 2 ±°  
 REMOVE ALL BURRS AND BREAK ALL SHARP EDGES  
 DO NOT SCALE DRAWING

**Saniserv**  
 451 E. COUNTY LINE ROAD  
 MOORESVILLE, IN 46158

TITLE: WIRE BOX ASSEMBLY  
 MODEL: WB700J  
 DRAWN: J. GALVIN  
 SCALE: 1 SHEET OF 1  
 USED ON: 7000363  
 CHKD.: \_\_\_\_\_ DATE: 01/05/07  
 P/N **15876** REV. A





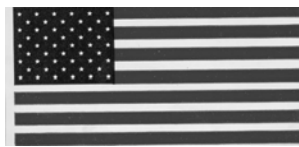
## Notes

# SaniServ®

 An AFFINIS GROUP Company

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P.O. Box 1089  
Mooresville, Indiana 46158-5089

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**[www.saniserv.com](http://www.saniserv.com)**



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