

SPACEMAN FROZEN BEVERAGE MACHINE TRAINING

*use this training guide for Spaceman USA models: 6450, 6455H, 6490H, 6650, 6690H, 6695H, 6795H









NOTES AND FUNCTIONS OF YOUR MACHINE



The machine you have purchased is a non carbonated frozen beverage machine. It is capable of producing a variety of frozen beverage products. All Spaceman USA Frozen Beverage machines are capable to freeze alcoholic beverages.

Most Spaceman beverage machines (*except for 6450 and 6650*) include refrigerated hoppers and a standby mode.

Product is poured into the hopper (product should be below 41°F) where it is kept until flowing into the freezing cylinder via the air tube.

Inside the freezing cylinder, the beater mixes the product while freezing to produce the final frozen beverage product.

On the front of the machine is an analog rocker switch that controls the function of the machine (off, wash, and cooling). Your machine may also include a lighted standby button and low mix light.



ROUTINE MAINTENANCE OPERATIONS



Clean and Lubricate Daily

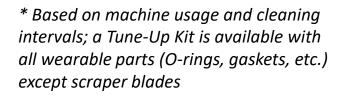


Replace Wearable Parts Every

1 to 3 months*



Internal Cleaning Quarterly**



^{**} Based on cleanliness of location and proximity to powder-based machines



Tune Op Kil JSA Frozen Beverage Training



For optimal machine performance and many years of efficiency and reliability from your machine, Spaceman USA recommends cleaning and sanitizing the machine and its parts daily. The machine comes equipped with a brush kit specifically designed to efficiently and properly clean the machine.



ROUTINE MAINTENANCE OPERATIONS



IMPORTANT:

Cleaning and sanitizing schedules are governed by state or local regulatory agencies and MUST be followed accordingly. Routine maintenance MUST be performed a minimum of once every 3 days.



CAUTIONS:

Do NOT run the machine without properly lubricating required parts.

Do NOT clean the machine with abrasive or toxic chemicals and cleaners. Doing so may cause damage to the stainless steel material.

ONLY use Spaceman-USA-included cleaning brushes and lubrication.

NEVER use metal objects to clean or operate the machine.

ALWAYS replace wearable parts a minimum of every 3 months.

ALWAYS prime machine prior to operating.

ALWAYS inspect parts for excess wear and damage.





NOTE

To expedite draining, turn off machine **30** minutes prior to soften product. To expedite process, keep a bucket nearby to temporarily store removed parts.

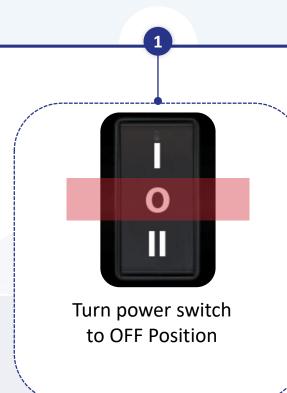


CAUTION

NEVER use warm water when rinsing the machine to prevent damage.









Remove hopper lid and agitator (if present)



Place a bucket or other container below draw valve to capture product as it drains

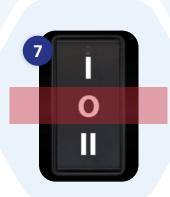


Turn power switch to WASH











Move draw handle to OPEN position (RIGHT) until all product runs out

Move draw handle to CLOSED position (LEFT)

Turn power switch to OFF

Remove product and dispose or refrigerate it



Use COOL water and the large brush to scrub the sides and bottom of the hopper; be VERY careful not to damage the lowmix sensor in the hopper

Place a bucket or other container below the draw valve



Fill hopper with a minimum of 2 gallons of COOL water



Use the small brush kit to clean inside the feed tube at the bottom of the hopper







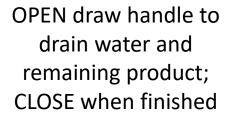








Turn power switch to WASH



Turn power switch to OFF

Repeat steps 9 to 14 until water exiting the draw valve is clear and free of product



NOTE

Prepare dishwashing area prior to disassembly, and use a bucket to temporarily store removed parts.

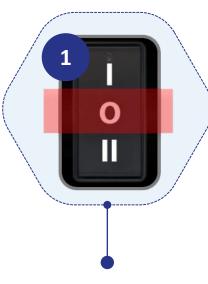


CAUTION

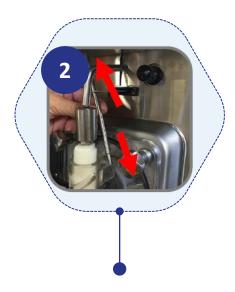
ALWAYS separate Orings and gaskets from metal parts to prevent damage while washing.



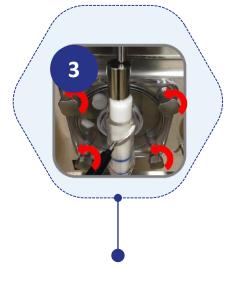




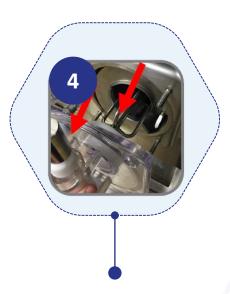
Verify the power switch is turned to OFF



Remove the torque arm, first pulling up out of the torque assembly and then down out of the flat sensor arm; DO NOT LIFT UP ON CURVED SENSOR ARM



Remove dispensing door hand-screws (4)



Remove dispensing door assembly, torque assembly (including torque guide), and beater assembly





Remove torque assembly O-ring using O-ring tool; remove torque guide



Remove scraper blades (2) from beater assembly; separate scraper blade clips (2) from scraper blades *some new models will not have blade clips



Remove dispensing door gasket using O-ring tool



Rotate draw valve until the flat part at the top is perpendicular to the clear face of the dispensing door (use towel if necessary)







Remove ice buster



Remove draw valve, twisting it while removing



Remove draw valve O-rings (2) using O-ring tool



Unscrew and remove prime plug from dispensing door





Separate drive shaft gasket from drive shaft

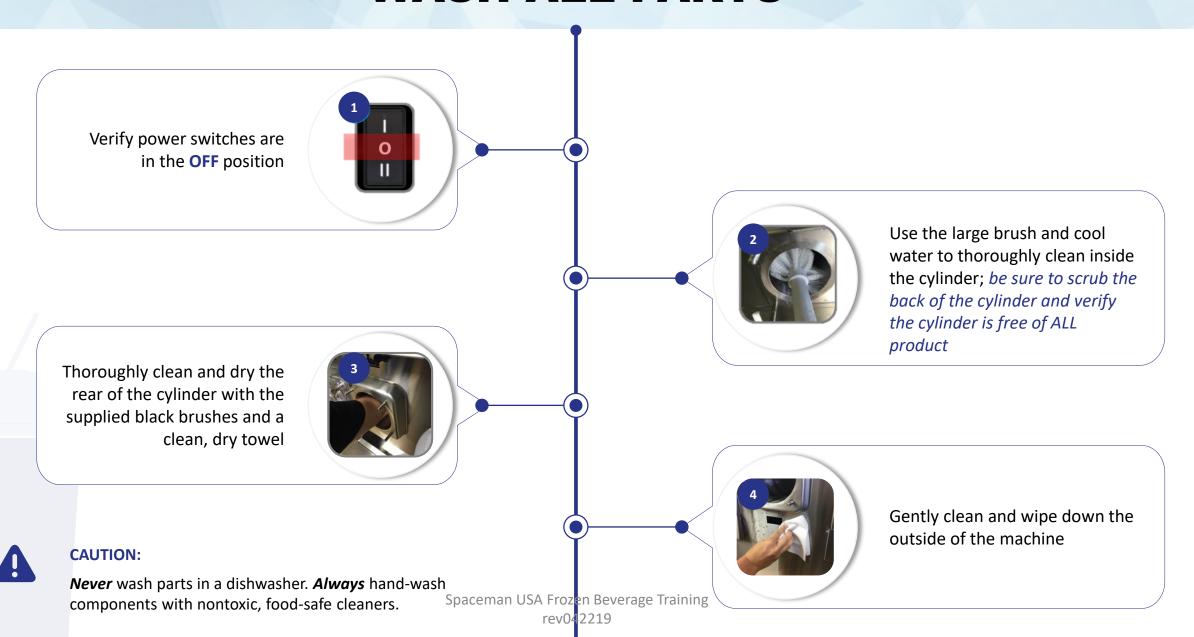


Use a towel to remove drive shaft at the back of the cylinder

Remove front drip tray and internal drip tray

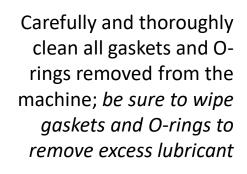
WASH ALL PARTS

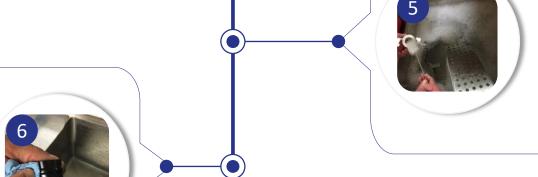




WASH ALL PARTS







Carefully and thoroughly wash all parts removed from the machine using supplied brushes, as well as sponges, and clean towels; when cleaning the dispensing door, clean the priming port with a small brush



Verify all parts are clean and free of all food

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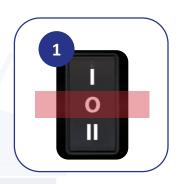




CAUTION:

NEVER force the installation of any parts. All parts fit correctly without force. If parts don't seem to fit, remove all parts and repeat assembly.

1. VERIFY MACHINE POWER SWITCH IS IN THE OFF POSITION



2. INSTALL DRIVE SHAFTS



Place drive shaft gasket on drive shaft



Seal gasket open space with Spaceman lubricant, extending onto drive shaft and avoiding the top square part

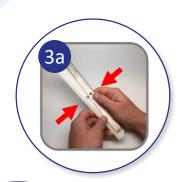


Insert drive shaft into rear shell bearing at the back of the cylinder, and turn it until the key engages firmly into the socket (when inserted correctly, the drive shaft will no longer turn 360°)



3.

Install beater assemblies



Install scraper blade clip(s) onto scraper blade(s)



Fit scraper blades onto beater



Insert assembly into cylinder; turn assembly until it engages the drive shaft key and no longer turns 360°



Important:

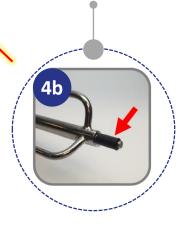
Failure to install torque guide (4b) will Result in machine damage and noise!

4. Install torque assembly

Place torque guide onto the short end of the torque assembly; **DO NOT lubricate this component**



Place O-ring on torque assembly, coating with Spaceman lubricant



Insert torque assembly into pilot hole in the center of the drive shaft (torque guide first), ensuring that torque guide

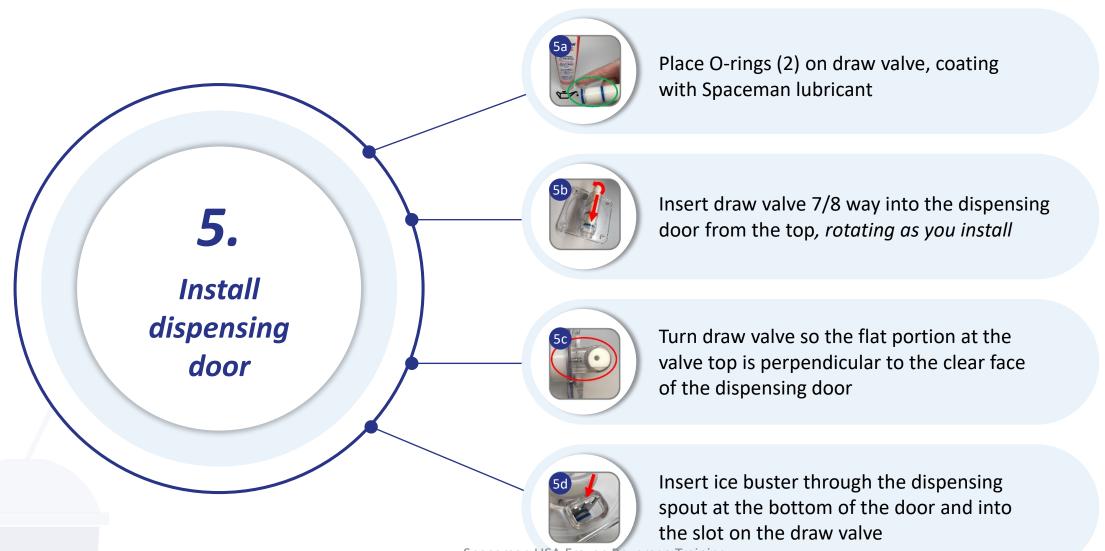
hole for the torque arm is vertical, facing up and down

Rotate torque assembly so the



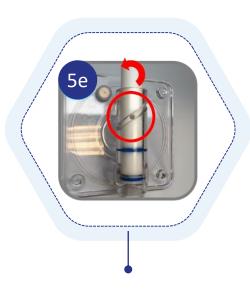
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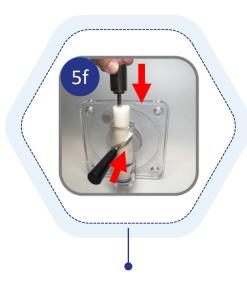


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5. Install dispensing door



Rotate draw valve to lock ice buster in place; turn valve until the hole for the draw handle is accessible on front



Insert draw handle; secure in place with valve pin



Screw prime plug onto dispensing door



Place dispensing door gasket on door, coating with Spaceman lubricant







Place beater guide onto dispensing door, with flange flush with the back of the door. Some models will not include this part, please make sure to check accordingly.

5.

Install dispensing door



Align door assembly with torque assembly and mounting bolts; carefully lift curved sensor arm out of the way, and install dispensing door until flush with machine; if needed, gently wiggle dispensing door to get the beater guide to line-up correctly inside the beater; DO NOT force the dispensing door onto the machine



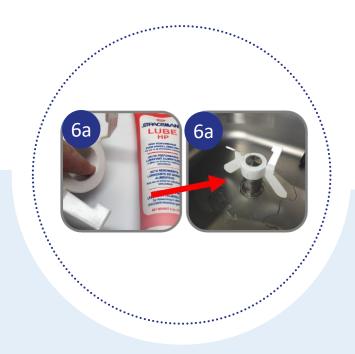
Lifting door up, tighten dispensing door hand-screws (4) in a cross-pattern



With tapered end down, install torque arm up through the flat sensor arm and then down into the torque assembly; torque arm should move freely back and forth; **DO NOT LIFT UP ON CURVED SENSOR ARM**



6. Install hopper assembly and drip trays





If machine has hopper agitator, lubricate inside it and install with arrow pointing up Spaceman

Install hopper lid and drip trays (internal and front)



After sanitizing the machine, **DO NOT** rinse or touch areas that have been sanitized. Product must be added immediately. If new product will not be added immediately, rinse machine with clean water and loosen door handscrews to allow cylinder to air-dry. Sanitize machine before using again.

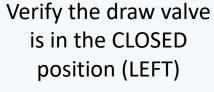


CAUTION

Always use food-grade, norinse sanitizer (Stera-Sheen green label or equivalent) to sanitize. If warm water is required to dissolve sanitizer, allow the solution time to cool before adding to machine.





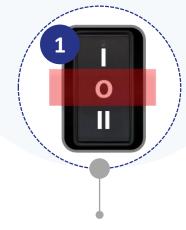




3 3

Mix a minimum of 2 gallons of food-grade sanitizer in a bucket or container

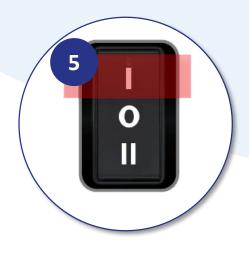
Pour food-grade sanitizer solution into the hopper



Verify assembly is complete and machine power is OFF







Turn power switch to WASH



Allow solution to agitate for 5 to 10 minutes;

NEVER leave machine on WASH for more than 10 minutes

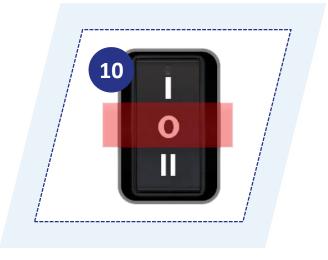


While agitating, gently use a clean brush to scrub and distribute sanitizer solution along hopper walls and hopper agitator (if present)









Place a bucket or container below the draw valve

OPEN the draw valve (RIGHT) and drain solution from the machine

Turn power switch to OFF

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Important:

DO NOT dispense product with low mix.

Doing so WILL cause freeze up and damage to your machine.





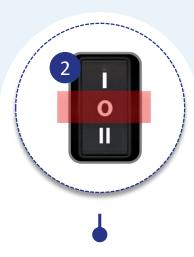
The MIX LOW light illuminates when the hopper is low on product mix and automatically turns off when machine is filled.



ADD PRODUCT TO MACHINE



Verify machine has been recently sanitized (within 1 hour); if machine has **not** been recently sanitized, verify door hand-screws are tight, and perform sanitizing steps (Page 13)



Turn power switch to OFF



Thoroughly mix and prepare at least 2 gallons of product according to manufacturer instructions; mix should be cool and smooth (free of large chunks)



Place a bucket or container below the draw valve

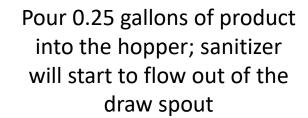


ADD PRODUCT TO MACHINE

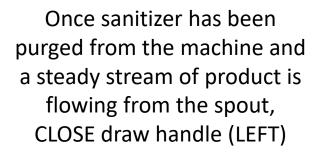














ADD PRODUCT TO MACHINE



Pour remaining product into the hopper



Open the prime screw (counter-clockwise) on the front of the dispensing door and allow the cylinder to fill with product to the desired

level; cylinder must be at least

75% full to operate Spaceman USA Frozen Beverage Training rev042219



Close the prime screw and tighten completely



Replace hopper lid



FREEZE PRODUCT



Verify cylinder is full of mixed product



Turn power switch to FREEZE and verify STANDBY mode is off (see below)



The motor will begin to agitate the product, and the cooling system will begin to freeze the product



Freezing product takes approximately 10 minutes; product is at the adjusted viscosity when the flat sensor arm is switched to the RIGHT



When the product reaches the desired viscosity, it is ready to dispense

MACHINE POWER RESET



IMPORTANT

Machine shuts down automatically if cylinder experiences freeze-up (usually because the viscosity is set too high for the selected product to prevent motor damage.

Use the green reset button on the machine's back panel to return the machine to normal operation.



PROPER MACHINE RESET

- 1. Turn power switch to OFF
- 2. Firmly press green reset button
- 3. Wait 15 to 20 minutes.
- 4. Turn power switch to WASH
- 5. Observe machine performance



CAUTION:

If machine makes any abnormal noise during reset, immediately turn power switch OFF and contact service team.



NOTE:

If machine doesn't turn on, turn power switch OFF, wait 30 minutes, and repeat steps 1 to 4. If problem persists, contact service team.



DISPENSE PRODUCT



OPEN

OPEN draw handle (RIGHT) until the desired amount is dispensed



CLOSE

CLOSE the draw handle (LEFT) when finished dispensing



STANDBY MODE



IMPORTANT

- When the machine will NOT be utilized for several hours, place it in STANDBY mode to conserve electricity and reduce product loss.
- In *STANDBY*, product remains below 41°F in both the cylinder and hopper, but will *NOT* be frozen.

To enter STANDBY mode:

(Light may be amber in color)



- Press STANDBY indicator light on front of machine. Light may be amber color.
- Light illuminates green when machine is in STANDBY mode.

To exit STANDBY mode:



- Press STANDBY indicator light on front of machine, and green light will de-illuminate.
- Allow 5 to 10 minutes for machine to begin freezing again.



ADJUST PRODUCT CONSISTENCY



- The viscosity adjustment screw, located above the draw handle, controls the firmness of dispensed product. The higher the viscosity, the more firm the product. Viscosity settings should **NOT** need continuous adjustment.
- To adjust product consistency, use a #2 Phillipshead screwdriver to turn the viscosity adjustment screw. Make small adjustments each time, and allow at least 10 to 15 minutes between adjustments to evaluate product firmness.



Increase viscosity (more firm):

- Turn viscosity adjustment screw clockwise.
- Turn a maximum of two full turns per adjustment.



Decrease viscosity (less firm)

- Turn viscosity adjustment screw counterclockwise.
- Turn a maximum of two full turns per adjustment.



WARNING

STOP turning viscosity adjustment screw if you feel any increase in resistance to prevent damage.

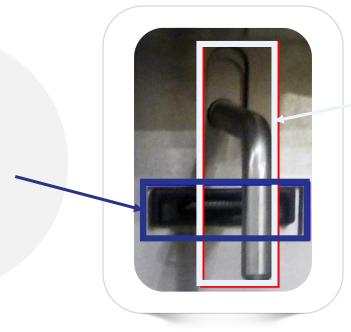


MANAGE SENSOR ARMS



Located directly above the draw valve, this arm tells the machine when product is being dispensed and how firm the product is. Beater and cooling systems are turned on and off based on information from the sensor arms.

- Flat arm moves left and right and tells machine when product is at desired consistency.
- Switched RIGHT means consistency is correct. Switched LEFT or IN THE MIDDLE means consistency is not yet correct.



- Curved arm moves up and down and tells machine when product is being dispensed.
- It moves UP when draw handle is in the OPEN position.

