

## [See Operating Manual for More in Depth Instructions](#)

### Opening Procedures

Before performing the opening procedures, check the display panel for any error messages. Normally the display is blank, unless an operational fault has occurred. If a fault has been detected, investigate the cause and follow the instructions on the display before proceeding with the opening procedures. See Heat Treatment Cycle Failure Messages on page 5-5 and Faults Occurring Entering a Heat Treatment Cycle on page 5-14.

### Freezing Cylinder Assembly

*Note: Make sure your hands are clean and sanitized before performing these next steps.*

1. Before installing the beater drive shaft, lubricate the groove on the beater drive shaft.
2. Slide the beater drive shaft boot seal over the small end of the beater drive shaft and engage into the groove on the shaft.
3. Heavily lubricate the inside portion of the boot seal and also lubricate the flat end of the boot seal that comes in contact with the rear shell bearing.
4. Apply an even coat of lubricant to the shaft. Do not lubricate the hex end.
5. Insert the beater drive shaft through the rear shell bearing in the freezing cylinder and engage the hex end firmly into the drive coupling.
6. Before installing the beater assembly, check the scraper blades for any signs of wear or damage. If a scraper blade is nicked or worn, replace both blades.
7. If the blades are in good condition, install the scraper blade over the rear holding pin on the beater.
8. Holding the rear blade on the beater, slide it into the freezing cylinder halfway. Install the front scraper blade over the front holding pin.
9. Before installing the beater shoes, check the shoes for any nicks, cracks, or signs of wear. If any defects are present, replace the beater shoes.
10. If the shoes are in good condition, install the beater shoes.
11. Slide the beater assembly the rest of the way into the freezing cylinder. Make sure the beater assembly is in position over the drive shaft by turning the beater slightly until the beater is properly seated. When in position, the beater will not protrude beyond the front of the freezing cylinder.
12. Repeat steps 1 through 11 for the other side of the machine.
13. Before assembling the freezer door, check the following for nicks, cracks, or signs of wear: the door bearings, door gaskets, draw valves, O-rings, and all sides of the door assembly, including the inside of the draw valve bores. Replace any damaged parts.
14. Place the door gaskets into the grooves on the back of the freezer door.
15. Slide the two O-rings into the grooves on each prime plug. Apply an even coat of Taylor Lube to the O-rings and shafts.
16. Insert the prime plugs into the holes in the top of the freezer door, and push down.
17. To install the freezer door, insert the baffle rods through the beaters in the freezing cylinders.
18. With the door seated on the freezer studs, install the handscrews. Use the long handscrews on the top and the short handscrews on the bottom. Tighten them equally in a crisscross pattern to ensure the door is secured.
19. Slide the three O-rings into the grooves of each standard draw valve. Slide the H-ring and O-ring into

the grooves of the center draw valve. Lubricate the H-ring and O-rings.

20. Lubricate the inside of the freezer door spouts, top and bottom.
21. Insert the draw valves from the bottom until the slot in each draw valve comes into view.
22. Position each draw handle with the adjustment screw facing down. Slide the fork of each draw handle into the slot of each draw valve, starting from the right.
23. Slide the pivot pin through the draw handles as the handles are inserted into the draw valves.
24. Snap the design caps over the bottom of the door spouts.
25. Slide the two rear drip pans into the holes in the back panel. Slide the two drip pans into the holes in the side panels.
26. Install the front drip tray and splash shield under the door spouts.

### Mix Pump Assembly

1. Inspect the rubber and plastic pump parts. The O-rings, check ring, and gasket must be in 100% good condition for the pump and entire machine to operate properly. They cannot properly serve their intended function if nicks, cuts, or holes in the material are present. Inspect the plastic pump parts for cracks, wear, and delamination of the plastic. Replace any defective parts immediately.
2. Assemble the piston. Slide the red O-ring into the groove of the piston. **Do not** lubricate the O-ring.
3. Apply a thin layer of lubricant to the inside of the pump cylinder at the retaining pin hole end.
4. Insert the piston into the retaining pin hole end of the pump cylinder.
5. Assemble the valve cap. Slide the O-ring into the groove of the valve cap. **Do not** lubricate the O-ring.
6. Slide the pump valve gasket into the holes on the cap. **Do not** lubricate the gasket.
7. Insert the valve body cap into the hole in the mix inlet adapter.
8. Insert the mix inlet assembly into the pump cylinder. The adapter must be positioned into the notch located at the end of the pump cylinder.
9. Secure the pump parts in position by sliding the retaining pin through the cross holes located at one end of the pump cylinder.
10. Assemble the feed tube assembly. Slide the check ring into the groove of the feed tube.
11. Install one red O-ring on each end of the mix feed tube, and thoroughly lubricate.
12. Lay the pump assembly, pump clip, cotter pin, and mix feed tube in the bottom of the mix hopper for sanitizing.
13. Slide the large black O-ring and the two smaller black O-rings into the grooves on the drive shaft. Thoroughly lubricate the O-rings and shaft. **Do not** lubricate the hex end of the shaft.
14. Install the hex end of the drive shaft into the drive hub at the rear wall of the mix hopper.

### Cleaning & Sanitizing:

Prepare an approved 100 PPM sanitizing solution (examples: 2 gal. of Stera-Sheen®). **Use warm water and follow the manufacturer's specifications.**

1. Pour sanitizing solution over all the parts in the bottom of the mix hopper and allow it to flow into the freezing cylinder.
2. While the solution is flowing into the freezing cylinder, take particular care to brush clean the mix-

## [See Operating Manual for More in Depth Instructions](#)

level sensing probe, mix hopper, mix inlet hole, air/mix pump, pump clip, mix feed tube, and cotter pin.

3. Install the pump assembly at the rear of the mix hopper. To position the pump on the drive hub, align the drive hole in the piston with the drive crank of the drive shaft. Secure the pump in place by slipping the pump clip over the collar of the pump, making sure the clip fits into the grooves in the collar.
4. Install the pump end of the mix feed tube and secure with the cotter pin. Failure to follow this instruction could result in sanitizer spraying on the operator.
5. Prepare another pail of approved 100 PPM sanitizing solution.
6. Pour the sanitizing solution into the mix hopper.
7. Brush the exposed sides of the hopper.
8. Place the power switch in the ON position.
9. Press the Wash symbol. This will cause the sanitizing solution in the freezing cylinder to be agitated. Wait at least 5 minutes before proceeding with these instructions.
10. With an empty pail beneath the door spouts, raise the prime plug and press the Pump symbol.
11. When a steady stream of sanitizing solution is flowing from the prime plug opening in the bottom of the freezer door, open the draw valve. Momentarily open the center draw valve to sanitize the center door spout. Draw off the remaining sanitizing solution.
12. Once the sanitizer stops flowing from the door spout, press the Wash and Pump symbols and close the draw valve.

### **Priming:**

1. Place an empty pail beneath the door spouts. With the prime plug in the up position, pour 2-1/2 gal. (9.5 L) of fresh mix into the mix hopper and allow it to flow into the freezing cylinder.
2. Open the draw valve to remove all sanitizing solution. When only fresh mix is flowing, close the draw valve.
3. Once a steady stream of mix starts to flow from the prime plug opening in the bottom of the freezer door, push the prime plug down.
4. When mix stops bubbling down into the freezing cylinder, remove the cotter pin from the outlet fitting of the mix pump. Insert the outlet end of the mix feed tube into the mix inlet hole in the mix hopper. Place the inlet end of the mix feed tube into the outlet fitting of the mix pump. Secure with the cotter pin.
5. Select the Auto symbol.
6. Fill the hopper with fresh mix and place the mix hopper cover in position.

## [See Operating Manual for More in Depth Instructions](#)

### Closing Procedures:

To disassemble the Model C712, the following items will be needed.

- Two cleaning and sanitizing pails
  - Sanitizer/cleaner
  - Cleaning brushes (provided with machine)
  - Single-service towels
1. With a pail beneath the door spouts, open the draw valve. Press the Wash and Pump symbols. Drain the product from the freezing cylinder and the mix hopper.
  2. When the flow of product stops, press the Wash and Pump symbols, canceling the Wash and Pump modes. Close the draw valve and push the prime plug down.
  3. Remove the cotter pin, mix feed tube, pump clip, and assembled air/mix pump.

### Rinsing:

1. Pour 2 gal. (7.6 L) of cool, clean water into the mix hopper. With the white hopper brush, scrub the mix hopper and the mix-level sensing probe. Using the double-ended brush, brush clean the mix inlet hole.
2. With a pail beneath the door spouts, raise the prime plug and press the Wash symbol.
3. When a steady stream of rinse water is flowing from the prime plug opening in the bottom of the freezer door, open the draw valve. Drain all the rinse water from the door spout. Close the draw valve and push the prime plug down.
4. Press the Wash symbol, canceling the Wash mode.
5. Repeat steps 1–4 using clean, warm water, until the water being discharged is clear.
6. **Repeat steps 1–5 for the other side of the machine.**

### Hopper Cleaning:

Prepare a pail of approved 100 PPM cleaning solution (examples: 2-1/2 gal. [9.5 L] of Kay-5® or 2 gal. [7.6 L] of Stera-Sheen®). **Important! Use warm water and follow the manufacturer's specifications.**

1. With the prime plug pushed down, pour the cleaning solution into the hopper. Allow the solution to flow into the freezing cylinder.
2. Using the white hopper brush, clean the mix hopper and the mix-level sensing probes. Using the double-ended brush, clean the mix inlet hole.
3. Press the Wash symbol. This will cause the cleaning solution in the freezing cylinder to come in contact with all areas of the freezing cylinder. Wait at least 5 minutes before proceeding with these instructions.
4. Place an empty pail beneath the door spouts.
5. Raise the prime plug.
6. When a steady stream of cleaning solution is flowing from the prime plug opening in the bottom of the freezer door, open the draw valve. Draw off all the solution.
7. Once the cleaning solution stops flowing from the door spout, close the draw valve and the prime plug.
8. Press the Wash symbol, canceling the Wash mode.
9. **Repeat steps 1–8 for the other side of the machine.**

### Disassembly

**WARNING!** Make sure the power switch is in the OFF position. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

1. Remove the handscrews, freezer door, beater and scraper blades, and drive shaft with the drive shaft seal from the freezing cylinder.
2. Remove the drive shaft seal from each drive shaft.
3. From each pump cylinder, remove the retaining pin, mix inlet adaptor, valve cap, pump gasket, and piston. Remove the O-ring from the piston and valve cap.
4. Remove the freezer door gaskets, front bearings, pivot pin, draw handles, draw valves, prime plugs, and design caps. Remove the O-rings from the draw valves.
5. Remove the pump drive shafts from the drive hubs in the rear wall of the mix hoppers.
6. Remove the two small O-rings and one large O-ring from each pump drive shaft.
7. Remove the front drip tray and splash shield.
8. Remove all drip pans. Take them to the sink for cleaning.

### Manual Brush Cleaning:

Prepare a sink with an approved 100 PPM cleaning/ sanitizing solution (examples: Kay-5® or Stera-Sheen®). **Important! Use warm water and follow the manufacturer's specifications.** Make sure all brushes provided with the freezer are available for brush cleaning.

1. Thoroughly brush clean all disassembled parts in the cleaning solution, making sure all lubricant and mix film is removed. Be sure to brush all surfaces and holes, especially the holes in the pump components and the draw valve holes in the freezer door. Rinse all parts with clean, warm water. Place the parts on a clean, dry surface to air dry overnight.
2. Return to the freezer with a small amount of cleaning solution. Using the black brush, clean the rear shell bearing at the back of each freezing cylinder.
3. Using the black brush, clean the drive hub opening in the rear wall of each mix hopper.
4. Wipe all exterior surfaces of the freezer with a clean, sanitized towel.