

TAYHR

Operators Manual



MODEL:
HRF1-0

Hydra Rinse® Cleaning and Sanitizing System
for Soft Serve Ice Cream Machines

HYDRA RINSE®

CLEANS SIMPLE. SAFE. QUICK.

Complete for service reference information regarding your Hydra Rinse® product:

Model Number: _____

Serial Number: _____

Soft Serve Machine Model Number: _____

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TAYHR

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Table of Contents

	Page
Section 1: Installation Guidelines	1
Section 2: Operator Introduction	2
Section 3: Safety	3
Section 4: Product Introduction	4
• The Hydra Rinse® Eco System	
Section 5: User Interface	5, 6
• The "RESET-CUPS-PROGRAM" button functionality	
• The "ONE TOUCH" button functionality	
• The "PLAY/PAUSE" button functionality	
• The "STATUS INDICATORS" LEDs	
Section 6: LEXX™ Cups and Gallon Concentrate	7
• LEXX™ Liquid Sanitizer and Cleaner Concentrate	
Section 7: Registration of Token Tag	8
Section 8: Referenced Components	9
Section 9: Required Water and Drain Source	10
Water Source:	
• Temperature Mixing Valve	
• Dedicated Water Line	
• Drain Source:	
• Acceptable System Option	
Section 10: WSF128-169 Portable Wandstation	11
• Mounting Bracket	
• Hard Non-porous Food Contact Surfaces	
Section 11: Upgrade Components	12
• Upgrade Components	
• Machine Beater Shaft	

Table of Contents

	Page
Section 12: NSF Certified Hydra Rinse® Process	13
• 29 Step Reference Document	
Section 13: NSF Certified Flavor Change Process	14
• 31 Step Reference Document	
Section 14: Details of the Hydra Rinse® Process	15-27
• Detailed Training Instructions for Sections 12 & 13	
Section 15: Troubleshooting Guide	28, 29
• Table Defining Common Issues, with Potential Cause and Solution	
Section 16: Pro-control LEDs	30, 31
• Table Defining LED Process and Error Codes	
Section 17: Battery Installation/Replacement	32
Section 18: Replacement Components	33
Section 19: Warranty	34
Section 20: Appendix A	35
• Securing the Hydra Rinse® Pro-control on a 150-XX, 161-XX, 152-XX, 162-XX and 168-XX Taylor soft serve machines.	
Section 21: Appendix B	36
• Break-in Procedure for the Hydra Rinse® Pro-control	
Section 22: Appendix C	37, 38
Sanitizing solution test process	
• LEXX™ solution pH Test	
• LEXX™ solution Total Acid Test	

Section 1:

The information provided is to ensure that your **TAYHR** meets factory tested Performance.

Requirements



No additional tools or fasteners are required for proper mounting to the soft serve machine; attaching features are all inclusive.

For the **HRWAND128 "WSF128-169 Portable Wandstation"**: Depending on where the location of the "MOUNTING BRACKET" is installed e.g. concrete/drywall, etc., anchor bolts (**not included**) should be capable of supporting a minimum of 50 lbs. (Max screw diameter 3/16" actual size: 0.1875")

Care should be taken when installing your **TAYHR** to ensure proper performance and operation.

- Only **TAYHR** trained personnel should install and operate this device.
- Only Authorized **TAYHR** service personnel should make any necessary repairs

Note: *TAYHR is engineered to work exclusively with LEXX™ Liquid Sanitizer and Cleaner Concentrate.*

Protective Measures



Never submerge the Pro-control into any liquid. This product was manufactured and designed to meet IP65 standards:

- 6: Totally protected from dust contaminates.
- 5: Protected against low pressure jetting from water in all directions, limited ingress permitted.

Installation Guidelines

Site Pre-requisite



Water supply must be > 50 PSI, capable of flowing a minimum of 4.5 GPM, having a sanitary pH value of ~7.0-8.0.



We also recommend using a **Water Softener** to minimize hard water impact on the entire Hydra Rinse® Eco System.

Water Connection



Recommended outlet water temperature 110°F (43.3°C) but less than 120°F (48.9°C); Default: 112.5°F (44.7°C).

Note: No more than 130°F (54.4°C). Damage will occur to the Pro-control unit.

A backflow prevention device is required (**Not Included**) for the inlet water connection. Refer to applicable National, Federal, State and local codes.

Specific State Requirements:

California (Ca) Code: (Backflow Prevention, RPP)

Installed Backflow prevention device must meet or exceed specifications of Watts 9D Dual Check Valve(s) with intermediate Atmospheric Vent.

Section 2:

Operator Introduction

The following Hydra Rinse® product: **TAYHR** has been carefully engineered and manufactured to give you consistent operation.

To the Operator

Careful maintenance and operation of this unit will ensure product quality and consistent performance. The **TAYHR** will require frequent cleaning of the unit itself. Please take care in understanding the outlined procedures in this manual.

Important Messages



For optimal results, follow the cleaning and sanitizing procedures for both Sections 12 and 13 without "**Interruption**".

Using Hydra Rinse® does not eliminate the present concerns associated with manual cleaning and sanitizing procedures:

Soft serve machines must never be placed in "**Auto Mode**" in place of "**Wash Mode**" for any type of cleaning and sanitizing process. When the freezing barrel(s) become filled with cleaning and/or sanitizing solution as a replacement for product mix, permeant damage can and most likely will occur to the freezing cylinders if the solution is allowed to freeze, causing the soft serve machine to become inoperable. So when asked to place the machine into "**Wash Mode**" during the Hydra Rinse® process, be sure to never select "**Auto Mode**".

State Considerations:

(**Included**) with every **TAYHR** is a LEXX™ pH Test Strip Kit. The test strip is used for measuring the acceptable range of pH for proper sanitization (strip should indicate less than 3.5pH).

For States requiring a total citric acid concentration (grams/Liter) semi-quantitative measurement (**Sold separately**). Use QUANTOFIX® Total acid part no. 91353 (Strip should indicate between 2.0-2.5 g/L)

Note: *Warranty is valid as long as authorized TAYHR parts are acquired from an authorized TAYHR Distributor/Reseller along with service work being performed by an authorized TAYHR service technician. Hydra Rinse® reserves any right to deny warranty claims on device or parts if unofficial TAYHR components were installed in the unit. This also applies to any modifications that fall out of the scope of factory recommendations, apparent abuse or neglect.*

Note: *TAYHR is under continuous research and engineering; any improvements to our product will lead to information changes within this manual and are subject to change without notice (www.hydrarinse.com).*



Battery Disposal:

Hydra Rinse® is powered by 3 C Dry Cell Batteries

- **Do Not** place in fire or incinerator.
- **Do Not** dispose in refuse.
- **Do** remember to recycle in accordance with local regulations



Section 3:

Safety



Implementation with any one of our products requires a thorough understanding of factory recommendations; complete knowledge of this Operators Manual is recommended.

Important Message



Failures to adhere to the listed safety precautions may result in severe personal injury or even death. Personal, unauthorized service or repairs to this unit may result in inadvertent damages, and excessive service repair expense.

Visual Inspection



As a good practice, please take time to periodically inspect components for unforeseeable issues that may arise due to wear or damage (e.g. Water lines, supply hoses). Hoses can be an obstacle resulting in tripping and/or falling hazards that result in injury. Always work carefully around hoses avoiding injury to anyone within direct and/or indirect contact.

Water can wreak havoc with compromised systems, especially with unprotected surroundings like electrical receptacles that are unprotected by ground fault circuit interruption (GFCI). Worn out extension cords can lead to electrical shock when exposed to water.

Water/ Temperature



Do not operate the **TAYHR** with water temperatures above 130°F (54.4°C).

Batteries



The Pro-control is designed for non-rechargeable batteries. Regular "C DRY CELL BATTERIES" can be exposed to some water for a short period of time: If this is the case, make sure batteries are completely dry before inserting into the Pro-control Battery Case.

Never change or remove the batteries when water is present. Find a dry, clean area when replacing batteries. Since the Pro-control is always around water, never substitute "DRY CELL BATTERIES" for any rechargeable batteries i.e. li-ion; use of Professional Alkaline Batteries is suggested.

If water enters into the Pro-control Housing, discontinue usage immediately. Allow unit to air dry for 2 to 3 hours. If unit fails to operate correctly, replacement will be required; this failure is not covered under warranty.

HRWAND128 "WSF128-169 Portable Wandstation"

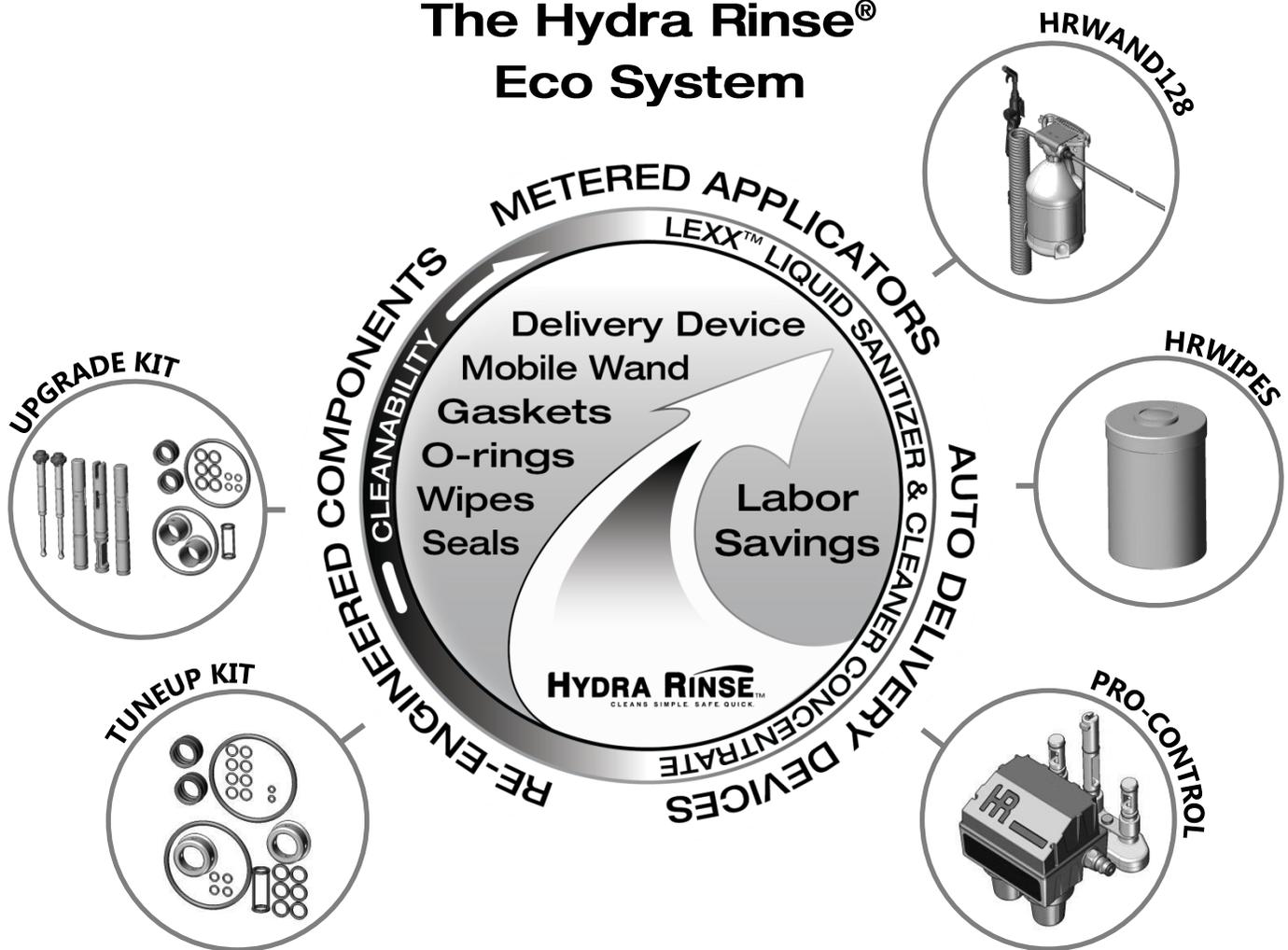
Never directly point the wand at anyone, for any reason. Never insert the Wand Tip into any orifice of any food dispensing device while beaters are in motion and/or electrically powered food equipment that may allow access to electrical circuitry/ components. When possible, always power off equipment before servicing to avoid electrocution/damage to device.

Section 4: Product Introduction

The Hydra Rinse® Eco System is comprised of a plurality of Hydra Rinse® products designed to work exclusively with **ProNatural® Brands** naturally derived **LEXX™ Liquid Sanitizer and Cleaner Concentrate (LEXX™)**. The Hydra Rinse® Eco System was designed for cleaning food dispensing equipment i.e. soft serve ice cream machines.

When you bring more components of The Hydra Rinse® Eco System into your cleaning process, the more time and money you begin to save while promoting a standardized cleaning solution for end users.

The Hydra Rinse® Eco System



Ask your participating Dealer for more information about Hydra Rinse® products and their applications.

Section 5:

User Interface 1 of 2



① The “RESET-CUPS-PROGRAM” button functionality:

- Reset the Pro-control processor/Read Firmware version
- Register cleaning/sanitizing cycles
- Read number of cleaning/sanitizing cycles available

② The “ONE TOUCH” button functionality:

- Initialize cleaning/sanitizing cycles
- Conclude cleaning/sanitizing cycle
- Self-clean mode when used simultaneously with the “PLAY/PAUSE” button

③ The “STATUS INDICATORS” LEDs:

- Power On/Cycle initiated
- Specific patterns of the cycles development
- Firmware Version
- Cycle paused
- Battery Low/Replacement
- Errors
- Number of registered cleaning/sanitizing cycles
- Cycle complete

④ The “PLAY/PAUSE” button functionality:

- Cancel initiated cleaning/sanitizing cycle
- Pause/Resume cleaning/sanitizing cycle
- Self-clean mode when used simultaneously with the “ONE TOUCH” button

Section 5:

User Interface 2 of 2

An audible “BEEP” may also accompany many of the Status Indicator LED patterns. Audible sounds indicate to the end users that some kind of action may need to be taken e.g. place soft serve machine in “WASH MODE”, pause cycle for full teardown of the soft serve machine, batteries need to be replaced, some error needs to be resolved before operations can continue.

Section 16: “Pro-control LEDs” includes a table that breaks down the different patterns of the Status Indicator LEDs, along with descriptions and specific actions that may be required by the end user.

A unique function of the Status Indicators helps with registering/reading a “TOKEN TAG”. The Status Indicators will “BLINK” out the number of cleaning/sanitizing cycles “REGISTERED” in the Pro-control when enabled.

For instance, the “GREEN LED” will represent the hundredths place, the “YELLOW LED” will represent the tenths place and the “RED LED” will represent the ones place (*e.g. 136 stored cycles is represented with 1 Green blink, 3 Yellow blinks and 6 Red blinks, indicating 136 available cycles are registered inside the unit.*)

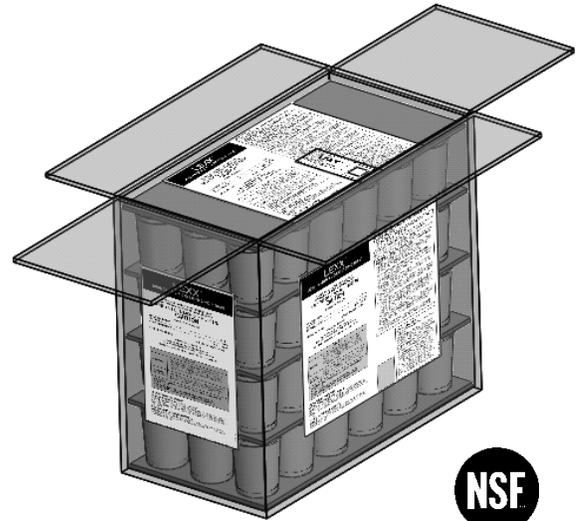


Section 6: LEXX™ Cups and Gallon Concentrate

“LEXX™ Liquid Sanitizer and Cleaner Concentrate” is the steam engine behind the Hydra Rinse® Process. It’s naturally derived ingredient provides for incredible efficiency, it also has no negative impact on product mix or residual taste when used as directed. Not only is it tasteless, it doesn’t require rinsing after application. LEXX’s ability to remove and prevent milkstone will be evident with every application.

The Hydra Rinse® System requires two different products of the same formulation. The “LEXX™ CUPS”, which come 72 per box provide for 36 automated cleaning cycles; one cup for cleaning and one cup for sanitizing.

Within the box of “LEXX™ CUPS” is a 36 cycle “TOKEN TAG”. You register the cups to the “Pro-control” using the included “TOKEN TAG”. This step ensures the Hydra Rinse® Process is using the specific sanitizer/cleaner it was created for; end user safety, cleaning and sanitizing results depend on LEXX™ Liquid Sanitizer and Cleaner Concentrate.



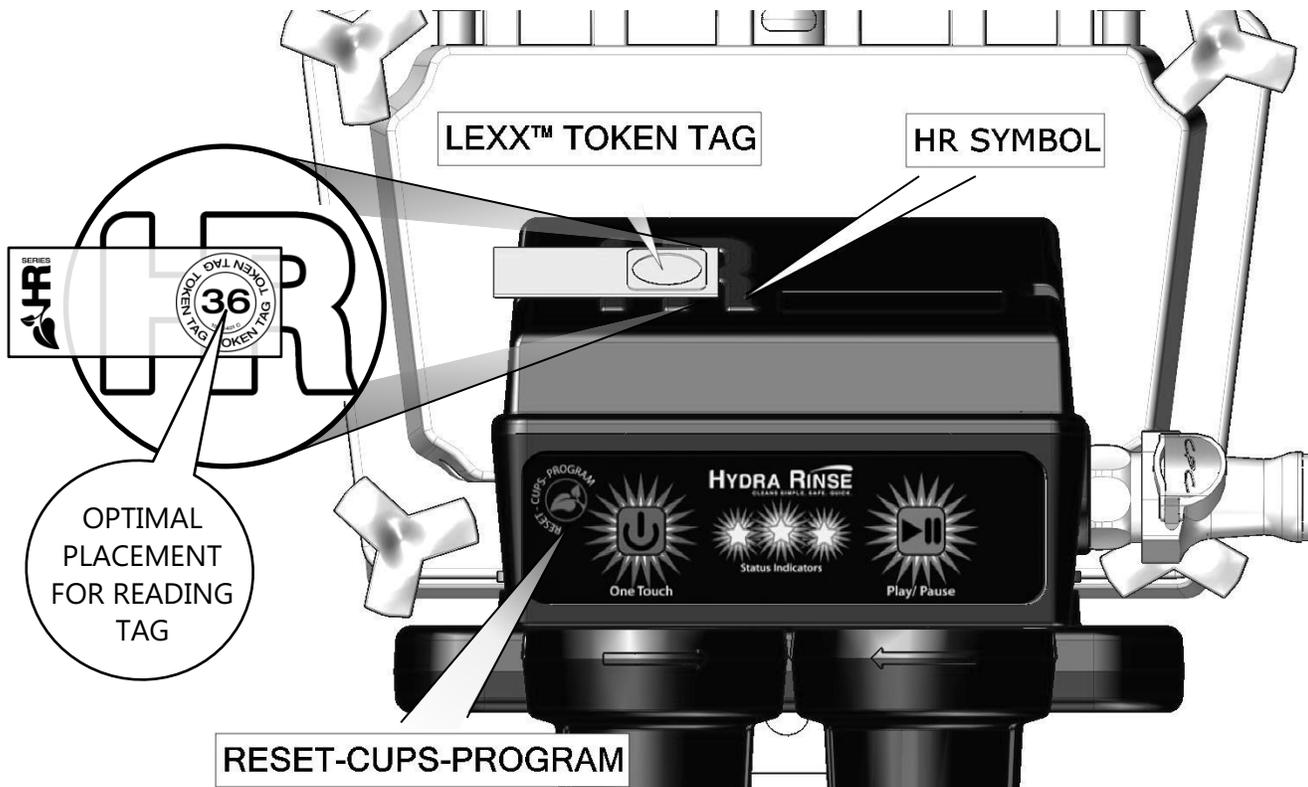
(Illustration of TOKEN TAG)

There is also the 1 gallon version of LEXX™ Liquid Sanitizer and Cleaner Concentrate. The 1 gallon container directly attaches to the HRWAND128 “WSF128-169 Portable Wandstation”.

The HRWAND128 will be used to perform many of the cleaning/sanitizing tasks within the Hydra Rinse® Process.



Section 7: Registration of Token Tag



(For reading out number of available cycles, use an old/previous registered "TOKEN TAG"!)

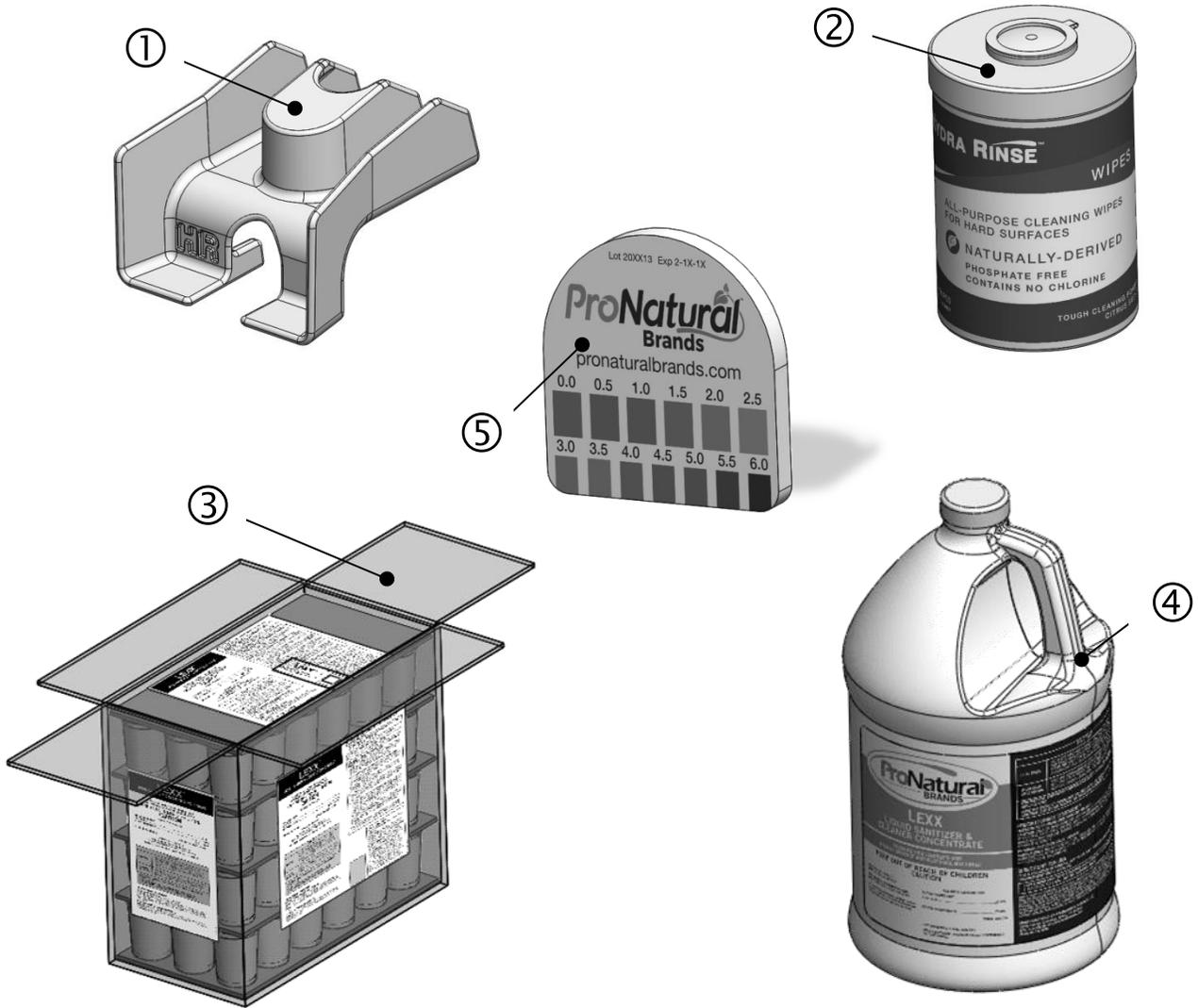
Before the Pro-control can be put into operation, first install batteries (**Section 17: Battery Replacement**), and Pro-control conditioning (**Section 21: Break-in Procedure for the Hydra Rinse® Pro-control**) followed by registration of the "TOKEN TAG". The "TOKEN TAG" can be found inside the box of HRLEXXCUPS72; more specifically it's directly attached to the LEXXTM Liquid Sanitizer and Cleaner Concentrate product insert card.

To register your new box of cups, hold the "TOKEN TAG" up against the "HR SYMBOL" located on the top cover of the Pro-control as illustrated; placing the portion of the Token Tag that contains the printed number of cycles up against the "HR SYMBOL" i.e. exactly in the center of the "HR SYMBOL" as illustrated.

While holding the "TOKEN TAG" in position, whether for registering or reading, press and then release the "RESET-CUPS-PROGRAM" button; the LEDs will begin to illuminate. Once the "TOKEN TAG" has been successfully registered a "BEEP" will be heard, followed by the "STATUS INDICATORS" blinking out the number of stored cycles within the Pro-control.

In order to conclude the "TOKEN TAG" registration process, once again press and then release the "RESET-CUPS-PROGRAM" button, but this time without the "TOKEN TAG" present. This will reset the Pro-control rendering it ready for use.

Section 8: Referenced Components



IMAGES FOR ILLUSTRATION ONLY

Item:	Description:
01	WEDGE TOOL (Sold Separately)
02	HYDRA RINSE® WIPES
03	LEXX™ CUPS
04	LEXX™ Liquid Sanitizer and Cleaner Concentrate
05	LEXX™ pH TEST STRIPS (Included with HRWAND128)

Section 9: Required Water and Drain Source

WATER SOURCE:

It's important to have proper water pressure, water flow and water temperature (**Section 1: Installation Guidelines**). To ensure water temperature stays constant during the automated sequence, a "TEMPERATURE MIXING VALVE" (1) is recommended; must be installed in accordance with all applicable Local, State, National and Provincial Codes, Ordances, Regulations and Laws.

Once the "FITTING, Y-GHT SPLITTER" item (17) is snug fitted to the "TEMPERATURE MIXING VALVE" item (1), continue to rotate the female GHT fitting counter clockwise for an additional 90-110° to insure a good tight fit. Repeat the same process for installing both the "25 FOOT POLYURETHANE 3/8" O.D. WATER SUPPLY ASSEMBLY" item (16) and for the combined "5 FOOT HOSE ASSEMBLY/EXTENDED WATER SUPPLY HOSE" item (15).

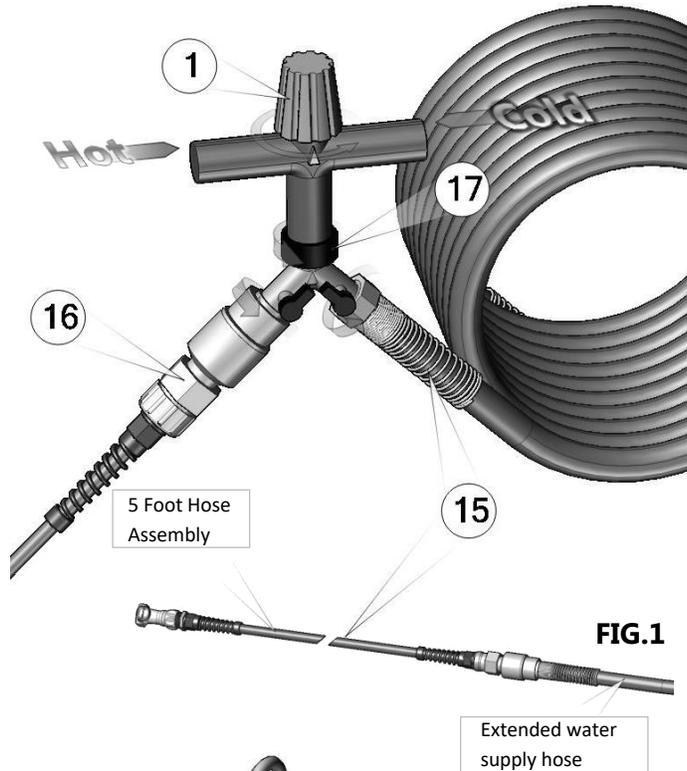


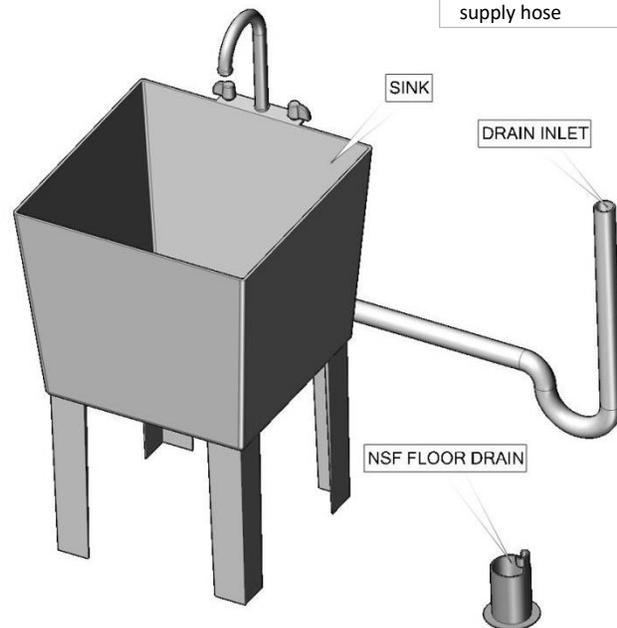
FIG.1

DRAIN SOURCE:

There are three approved methods for waste discharge that flows from the "25' BYPASS SYSTEM DRAIN HOSE", which extends from the "BYPASS SYSTEM".

Unlike discharging waste through the "FREEZER DOOR" as in manual operations, the automated sequence of the Hydra Rinse® Process manages waste by removing it up through the food product mix inlet hole(s), completely opposite of traditional methods.

The uses of a Sink, Drain Inlet, or a NSF approved floor drain e.g. 1- 1/2" above drain gate, are all valid options for the waste discharge.



(Image for illustration only) FIG.2

Section 10: WSF128-169 Portable Wandstation

○ MOUNTING BRACKET:

The "MOUNTING BRACKET" performs three simple features:

1. It provides a sturdy nesting place for the HRWAND128 "WSF128-169 PORTABLE WANDSTATION".
2. It's designed to be NSF compliant, meaning that it requires no tools for easy cleaning and removal for going mobile.
3. The lower hanging feature allows for easy stowing of the "POLYURETHANE 3/8" O.D. WATER SUPPLY HOSE"

Note: There are two mounting holes (Section 1: Installation Guidelines) 5 7/8" apart for securing to a vertically solid surface (anchor bolts sold separately).

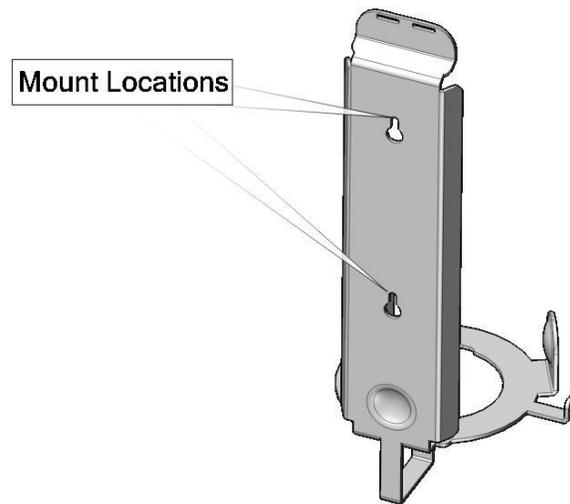


FIG.3

○ HARD NON-POROUS FOOD CONTACT SURFACES:

The HRWAND128 "WSF128-169 PORTABLE WANDSTATION" can be used on all hard non-porous food contact related surfaces of all soft serve equipment during the Hydra Rinse® Process. The Wandstation eliminates the need for manual mixing of sanitizer/cleaner solution.

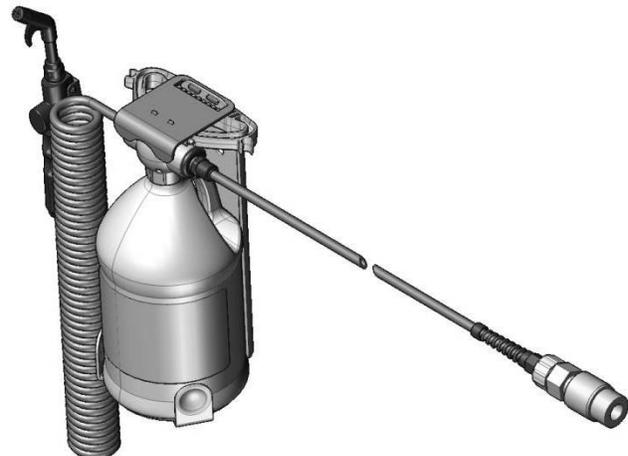


FIG.4

Section 11:

Upgrade Components

UPGRADE COMPONENTS:

Each **TAYHR** variant comes with one Upgrade Kit. Be sure to upgrade every soft serve machine that is intended for cleaning with the Hydra Rinse® System (www.hydrarinse.com). Hydra Rinse® upgrade components are specific for every **TAYHR** variant.

Installation of these upgrade components allows the Hydra Rinse® System to perform efficiently.

Food safe lube will no longer be applied to many of the illustrated component in **FIG.5**, with the exception to the machine "BEATER SHAFT".



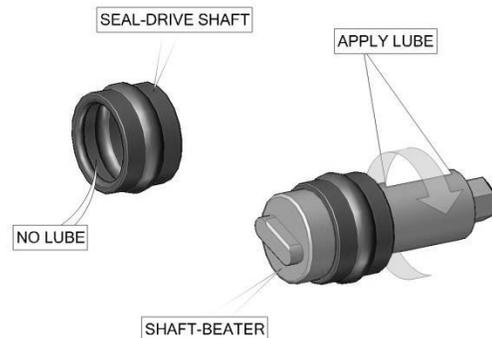
(Image for illustration only) **FIG.5**

MACHINE BEATER SHAFT:

As previously mentioned there will be no need for applying food safe lube directly to the upgraded Hydra Rinse® "BEATER SHAFT SEAL"; after cleaning "BEATER SHAFT", simply install the "BEATER SHAFT SEAL" as is.

But in order to maintain machine performance of the "BEATER SHAFT" itself, food safe lube will be required on the metal shaft as illustrated in **FIG.6**. This will ensure machine performance, while eliminating direct application of lube to your upgraded Hydra Rinse® "BEATER SHAFT SEAL".

NOTE: We recommend using "TAYLOR LUBE HP" for longer life and superior performance.



(Image for illustration only) **FIG.6**

Section 12: NSF Certified Hydra Rinse® Process

- Step 1:** Review Section 14: “Details of the Hydra Rinse® Process” before referencing this document.
- Step 2:** Place machine in “Standby Mode”. Wait approximately 4 to 5 hours for product to reach temperature >30°F (-1.1°C).
- Step 3:** Remove the top hopper cover(s) and clean/sanitize using wand solution, wipes and/or towels (place on sanitized surface).
- Step 4:** Remove the feed tube(s)/air tube(s) from hopper(s) and place into a sanitized catch bin or sink.
- Step 5:** Drain product from soft serve machine into a sanitized bucket if intended for rerun (immediately refrigerate)
- ✦ If pump(s) is present, replace feed tube(s) into mix inlet only, and use wand to dispense solution into hopper(s). Activate pump(s) to draw in solution for one minute (pre-clean before removing). Place feed tube(s) back in sanitized catch bin or sink when complete.
- Step 6:** Fill freezer barrel(s) with solution using wand while cleaning top hopper(s). Dispense solution for roughly one minute per top hopper. Power up the soft serve machine, and place each freezer barrel in “Wash Mode”. Allow the solution to reach the top of the mix inlet hole(s). If needed, dispense out enough solution to keep levels just below the mix inlet hole(s) i.e. roughly 2/3 full.
- Step 7:** Continue cleaning all top hopper(s) surfaces using wand, wipes and/or towels with OEM brushes. Ensure to brush the mix inlet hole(s) and temperature sensor(s); imperative that the machine is taken out of “Wash Mode” and powered down before using barrel brushes on mix inlet hole(s). After brushing, power up machine and place each freezer barrel back in “Wash Mode”.
- Step 8:** Wait 2 minutes. Drain grey water from the freezer barrel(s) into a catch bucket. Take soft serve machine out of “Wash Mode”.
- Step 9:** Remove design cap(s), draw valve(s)/handle(s) and pivot pin(s) from freezer door; flush draw valve port(s) with wand.
- Step 10:** Place a catch bucket under freezer door, and clean all exposed bottom surfaces using wand, wipes and/or towels along with OEM brushes.
- Step 11:** Remove prime plug(s) and rinse excess soil from surfaces. Flush the prime plug port(s) with wand and replace (if applicable).
- Step 12:** Apply one last application of wand solution to the top hopper(s) (momentarily place machine in “Wash Mode” to remove any remaining residual). Give the top of the soft serve machine one last wipe down.
- Step 13:** Wet Bypass Tube(s) with wand solution to lubricate and sanitize.
- Step 14:** Install bypass tube(s) into mix inlet hole(s) and replace top hopper cover(s).
- Step 15:** Place and secure the bypass drain hose to one of the three acceptable drain sources.
- Step 16:** Wet piston O-rings on the Pro-control with either the wand solution and/or wipes to lubricate.
- Step 17:** Install the Pro-control onto the freezer door. Engage the keeper to secure in place.
- Step 18:** Wet the quick connect on either the Pro-control or on the water supply hose with wand solution and/or wipes.
- Step 19:** Connect the water supply hose to the Pro-control. Remove cup housings from the Pro-control, and insert 1 new LEXX™ Cup into each Cup Housing. Re-attach the cup housings to the Pro-control.
- Step 20:** Review readiness check list. Press and then release the “ONE TOUCH” button to initialize cycle.
- Step 21:** Roughly 35 seconds and/or first sequential audible beeps from the Pro-control: Place soft serve machine in “Wash Mode” for each freezer barrel.
- Step 22:** Manually scrub clean and sanitize any components removed during Step 4 and 9, or simply begin prepping the next soft serve machine that is going to be cleaned with the Hydra Rinse® System.
- Step 23:** Roughly 3 ½ minutes into the cycle, pause the Pro-control when prompted (sequential audible beeps with all three LEDs Flashing). Take soft serve machine out of “Wash Mode” for each freezer barrel; power off the soft serve machine. Disconnect the water supply hose, drain machine (Section 14 page 22) and then remove the Pro-control from the freezer door. Remove freezer door and internal components of the soft serve machine for mechanical scrubbing; clean and then sanitize all components including all freezer door surfaces and freezer barrel surfaces. Re-assemble soft serve machine, and then re-install freezer door. Re-connect the Pro-control and the water supply hose. Power up the soft serve machine. Press and then release the “PLAY/PAUSE” button on the Pro-control to resume cycle. Place soft serve machine back into “Wash Mode” for each freezer barrel.
- Step 24:** When the “GREEN LED” is steadily blinking, the cycle is complete. Take machine out of “Wash Mode” for each freezer barrel. Place sanitized catch bucket under the Pro-control, pull either a prime plug or a bypass tube from the mix inlet hole. Remove the left cup housing to drain sanitizing solution from machine (option to momentarily place machine back in “Wash Mode” to remove any residual sanitizing solution from the freezer barrel(s)). Re-attach left cup housing after draining is completed.
- Step 25:** Disengage the keeper, and remove the Pro-control and the bypass system from soft serve machine.
- Step 26:** Wipe down soft serve machine outer shell with wipes and/or toweling. Replace top hopper cover(s). Check and clean all drip trays.
- Step 27:** Reconnect water supply hose to the Pro-control, and run “Self-clean Mode” while cleaning with wipes and/or towels (enter Self-clean Mode by holding down both the “ONE TOUCH” and the “PLAY/PAUSE” buttons simultaneously for 5 seconds).
- Step 28:** Sanitize bypass tube(s), OEM barrel brushes and anything else used during this process with wand solution before stowing.
- Step 29:** When adding product mix, be sure to prime machine in accordance with manufacturer’s instructions, re-install feed/air tube(s) and re-place hopper cover(s); place machine in “Auto Mode”. If product mix is not being added back into the soft serve machine within 72 hrs following this process: Remove the freezer door and all internal components for air drying.

Remember to perform a Pro-control self-cleaning cycle after every use.

Section 13: NSF Certified Flavor Change Process

- Step 1:** Review Section 14: "Details of the Hydra Rinse® Process" before referencing this document.
- Step 2:** Place machine in "Standby Mode". Wait approximately 4 to 5 hours for product to reach temperature >30°F (-1.1°C).
- Step 3:** Remove the top hopper cover(s) and clean/sanitize using wand solution, wipes and/or towels (place on sanitized surface).
- Step 4:** Remove the feed tube(s)/air tube(s) from hopper(s) and place into a sanitized catch bin or sink.
- Step 5:** Drain product from soft serve machine into a sanitized bucket if intended for rerun (immediately refrigerate)
- If pump(s) is present, replace feed tube(s) into mix inlet only, and use wand to dispense solution into hopper(s). Activate pump(s) to draw in solution for one minute (pre-clean before removing). Place feed tube(s) back in sanitized catch bin or sink when complete.
- Step 6:** Fill Freezer barrel(s) with solution using wand while cleaning top hopper(s). Dispense solution for roughly one minute per top hopper. Power up the soft serve machine, and place each freezer barrel in "Wash Mode". Allow the solution to reach the top of the mix inlet hole(s). If needed, dispense out enough solution to keep levels just below the mix inlet hole(s) i.e. roughly 2/3 full.
- Step 7:** Continue cleaning all Top Hopper(s) surfaces using wand, wipes and/or towels with OEM brushes. Ensure to brush the mix inlet hole(s) and temperature sensor(s); imperative that the machine is taken out of "Wash Mode" and powered down before using barrel brushes on mix inlet hole(s). After brushing, power up machine and place each freezer barrel back in "Wash Mode".
- Step 8:** Wait 2 minutes. Drain grey water from the freezer barrel(s) into a catch bucket. Take soft serve machine out of "Wash Mode".
- Step 9:** Remove design cap(s), draw valve(s)/handle(s) and pivot pin(s) from freezer door; flush draw valve port(s) with wand.
- Step 10:** Place a catch bucket under freezer door, and clean all exposed bottom surfaces using wand, wipes and/or towels along with OEM brushes.
- Step 11:** Remove prime plug(s) and rinse excess soil from surfaces. Flush the prime plug port(s) with wand and replace (if applicable).
- Step 12:** Apply one last application of wand solution to the top hopper(s) (momentarily place machine in "Wash Mode" to remove any remaining residual). Give the top of the soft serve machine one last wipe down.
- Step 13:** Wet bypass tube(s) with wand solution to lubricate and sanitize.
- Step 14:** Install bypass tube(s) into mix inlet hole(s) and replace top hopper cover(s).
- Step 15:** Place and secure the bypass drain hose to one of the three acceptable drain sources.
- Step 16:** Wet piston O-rings on the Pro-control with either the wand solution and/or wipes to lubricate.
- Step 17:** Install the Pro-control onto the freezer door. Engage keeper to secure in place.
- Step 18:** Wet the quick connect on either the Pro-control or on the water supply hose with wand solution and/or wipes.
- Step 19:** Connect the water supply hose to the Pro-control. Remove cup housings from the Pro-control, and insert 1 new LEXX™ Cup into each Cup Housing. Re-attach the cup housings to the Pro-control.
- Step 20:** Review readiness check list. Press and then release the "ONE TOUCH" button to initialize cycle.
- Step 21:** Roughly 35 seconds and/or first sequential audible beeps from the Pro-control: Place soft serve machine in "Wash Mode" for each freezer barrel.
- Step 22:** Manually scrub clean and sanitize any components removed during Step 4 and 9, or simply begin prepping the next soft serve machine that is going to be cleaned with the Hydra Rinse® System (roughly 7 minutes of free time).
- Step 23:** When the "GREEN LED" is steadily blinking, the cycle is complete. Take machine out of "Wash Mode" for each freezer barrel. Place sanitized catch bucket under the Pro-control and remove the left cup housing. Pull either a prime plug or a bypass tube from the mix inlet hole to drain sanitizing solution from machine (option to momentarily place machine back in "Wash Mode" to remove any residual sanitizing solution from freezer barrel(s)). Re-attach the left cup housing after draining is completed.
- Step 24:** Disengage the keeper, and remove the Pro-control and the bypass system from soft serve machine.
- Step 25:** Pull the prime plug(s) for thorough cleaning (if applicable)
- Step 26:** Use wand solution, OEM barrel brushes, wipes and/or towels to mechanically scrub draw valve port(s) and prime plug port(s) (if applicable)
- Step 27:** Reinstall draw valve(s), draw valve handle(s), pivot pin(s) and prime plug(s) (if applicable)
- Step 28:** Wipe down soft serve machine outer shell with wipes and/or toweling. Replace top hopper cover(s). Check and clean all drip trays.
- Step 29:** Reconnect the water supply hose to the Pro-control, and run "Self-clean Mode" while cleaning with wipes and/or towels (enter Self-clean Mode by holding down both the "ONE TOUCH" and the "PLAY/PAUSE" buttons simultaneously for 5 seconds).
- Step 30:** Sanitize the bypass tube(s), OEM barrel brushes and anything else used during this process with wand solution before stowing.
- Step 31:** When adding product mix, be sure to prime machine in accordance with manufacturer's instructions, re-install feed/air tube(s) and re-place hopper cover(s); place machine in "Auto Mode". If product mix is not being added back into the soft serve machine within 72 hrs following this process: Remove the freezer door and all internal component for air drying.

Remember to perform a Pro-control self-cleaning cycle after every use.

Section 14: Details of the Hydra Rinse® Process

○ REMOVE PRODUCT FROM MACHINE:

Place soft serve machine in "STANDBY" for a minimum of 4 hours; ensure cleaning utensils are sanitized before use e.g. buckets, brushes, etc.

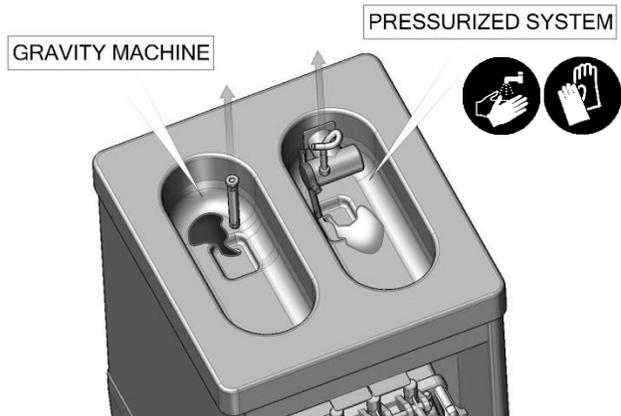
It doesn't matter what type of soft serve machine it is i.e. single hopper, double hopper, gravity or pressurized (relieve freezer barrel pressure for pump machines before removing feed tube(s)). You must remove the "AIR/FEED TUBE(S)", and fully drain the entire machine; never attempt to use the Hydra Rinse® Process with frozen or thawed product mix present in the "FREEZER BARREL(S)"; clean and sanitize "HOPPER COVER(S)" and place on a sanitized surface.

Note: Refer to State and local health codes for re-run permissibility.

○ CLEAN HOPPER(S) AND FREEZER BARREL(S):

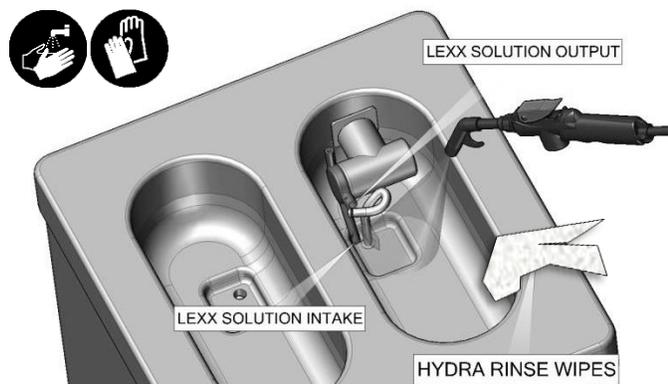
Chase all product mix residual from the "TOP HOPPER(S)" down into the "FREEZER BARREL(S)" using the HRWAND128 "WSF128-169 PORTABLE WANDSTATION".

While dispensing solution, use the "HYDRA RINSE® WIPES" to assist the process. After approximately 1 minute of dispensing, place the soft serve machine into "WASH MODE", then continue cleaning and dispensing solution into the "TOP HOPPER(S)"; if the "TOP HOPPER(S)" begins to fill with solution above the mix inlet hole(s), drain only enough solution to remove the overflow by drawing the corresponding "DRAW VALVE"; drain waste into a catch bucket. Allow "WASH MODE" to continue to agitate solution for approximately 2 minutes.



Disable "STANDBY", "AUTO", and "MIX REF." if applicable

(Image for illustration only) **FIG.7**



(Image for illustration only) **FIG.8**

TIP: If you are cleaning a machine with a "PUMP": Drain the product mix, and then replace the "AIR/FEED TUBE(S)" into the mix inlet hole(s) only; leaving it disengaged from the "PUMP(S)" as illustrated by **FIG.8**. Start filling the "HOPPER(S)" with solution and turn on the pump(s). Allow the solution to be drawn into the pump(s) for 1 minute. This will pre-clean the pump(s) prior to removing from the machine for full disassembly and thorough cleaning.

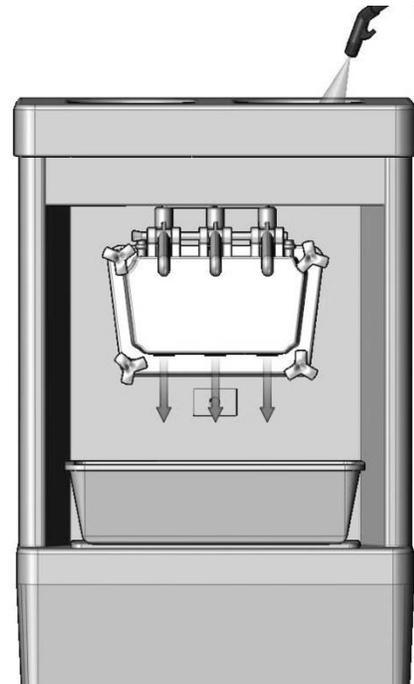
Section 14: Details of the Hydra Rinse® Process

○ DRAIN TOP HOPPER(S) AND FREEZER BARREL(S):

If you haven't yet, remove everything that needs to be manually cleaned from the "TOP HOPPER(S)" i.e. pump(s), air/feed tube(s), etc.; let soak in sanitizer/cleaner solution.

Next, drain the solution from the machine. Once completed, take the machine out of "WASH MODE". Remove "DESIGNER CAP(S)", "PIVOT PIN(S)", "DRAW VALVE HANDLE(S)" and "DRAW VALVE(S)".

Allow the sanitizer/cleaner solution to continue to drain from the machine. Again, take the "HRWAND128" and dispense into the "TOP HOPPER(S)" to give everything one last dose of fresh sanitizer/cleaner solution. Place machine in "WASH MODE" to help clear the "FREEZER BARREL(S)" of solution, and then immediately take the machine out of "WASH MODE" and turn power "OFF". Wipe surrounding surfaces down with "HYDRA RINSE® WIPES".



While machine is powered down, take a sanitized Barrel Brush to mechanically scrub the mix inlet port(s). Follow OEM procedure for cleaning "PUMP DRIVE SHAFT(S)". (**Optional Wedge Tool available for draining operations**).

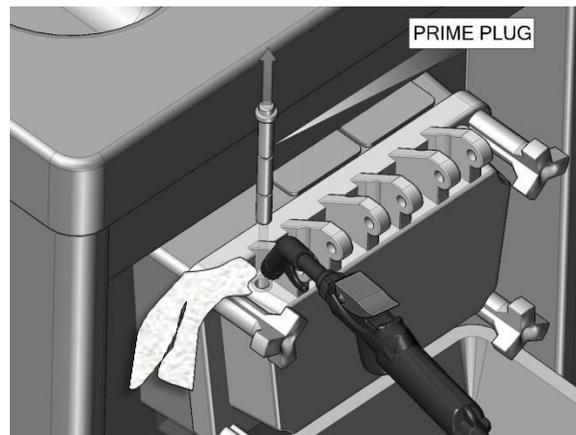
(Image for illustration only) **FIG.9**

○ PRE-RINSE PRIME PLUG(S):

Remove "PRIME PLUG(S)" if applicable, and rinse excess product mix off all soiled surfaces.

If you have access, chase some sanitizer/cleaner solution down the "PRIME PLUG PORT(S)" using the "HRWAND128" for roughly 5 seconds; a thorough cleaning and scrubbing will be performed at the end of this procedure. Once the "PRIME PLUG(S)" is deemed visually clean, replace back into the "FREEZER DOOR"; carefully inspect lower freezer door for mix residual and diligently scrub around the "DESIGN CAP(S)" mounting features.

Wipe surfaces clean using "HYDRA RINSE® WIPES".



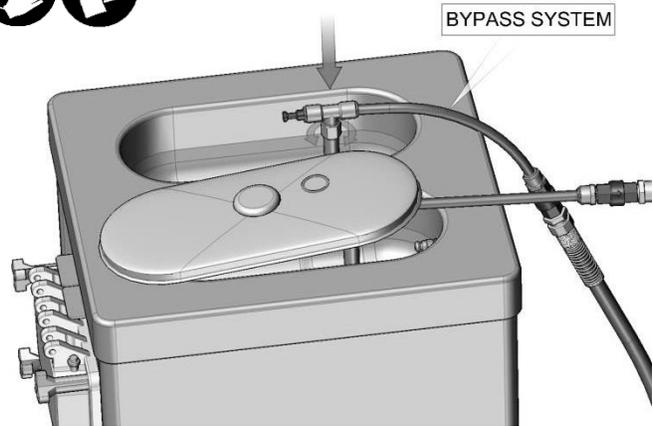
(Image for illustration only) **FIG.10**

Section 14: Details of the Hydra Rinse® Process

● INSTALLING BYPASS SYSTEM:

Each TAYHR variant comes with the required "BYPASS SYSTEM" for properly connecting to the "25' BYPASS SYSTEM DRAIN HOSE".

Before inserting the "BYPASS TUBE" into the product mix inlet hole(s), wet the O-rings on the "BYPASS TUBE" with either a "HYDRA RINSE® WIPE", or with the sanitizer/cleaner solution; for added ease of installation, gently wiggle the "BYPASS TUBE" back and forth while pressing downward. Ensure that the "HOPPER COVER(S)" have been cleaned and replaced over the top of the "BYPASS TUBE" to protect "TOP HOPPER(S)" from recontamination.

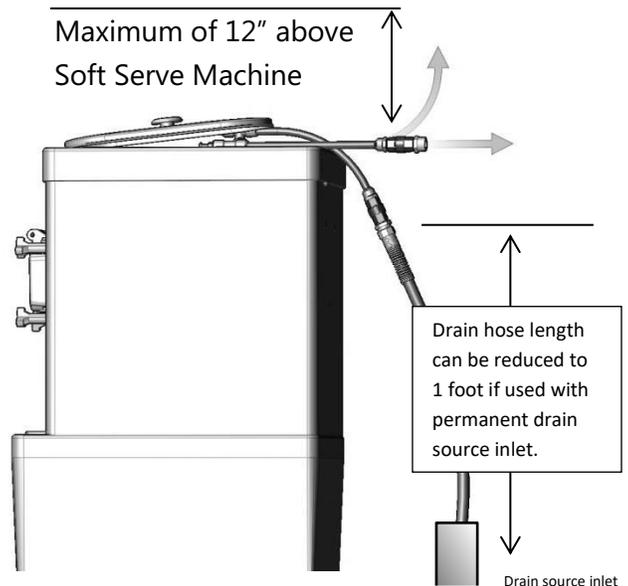


(Image for illustration only) **FIG.11**

Note: Never apply food safe lube to the "BYPASS TUBE(S)". If lube is already present on the mix inlet hole(s), it must be removed before inserting "BYPASS TUBE(S)".

● BYPASS SYSTEM LIMITATIONS:

The automated portion of the Hydra Rinse® Process will not work effectively if the "BYPASS SYSTEM" is installed more than 12 inches above the machine as illustrated **FIG.12**.



(Image for illustration only) **FIG.12**



WARNING

MAKE NO MODIFICATIONS TO THE "BYPASS SYSTEM" with one exception:

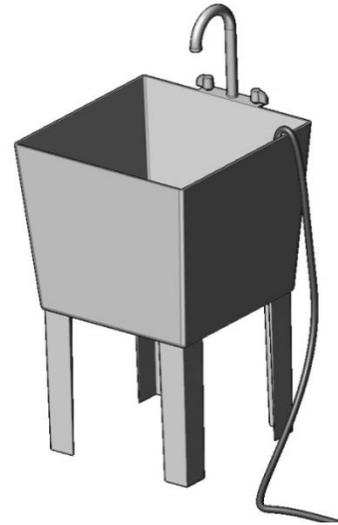
- 25' Bypass System Drain Hose can be reduced to a minimum of 1 foot as illustrated.

CAUTION: Ensure the Bypass System Drain Hose is never kinked or obstructed from flowing during operation.

Section 14: Details of the Hydra Rinse® Process

SECURING BYPASS DRAIN HOSE:

Whichever option you choose for your drain source (page 10), ensure that the "25' BYPASS SYSTEM DRAIN HOSE" is not only properly secured, but also properly positioned about the drain to ensure compliance with State and local health codes, which addresses backflow prevention.



(Image for illustration only) **FIG.13**

Note: The Hydra Rinse® "BYPASS SYSTEM" is equipped with a check valve.

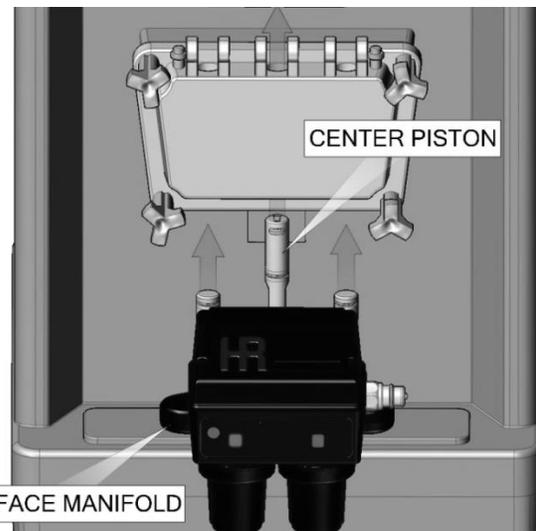
SECURING THE PRO-CONTROL:

To assist with installing the "PRO-CONTROL", wet the O-rings on the pistons with either a "HYDRA RINSE® WIPE" or with sanitizer/cleaner solution.



Simply use the "CENTER PISTON" to guide the unit up into the "CENTER DRAW VALVE PORT" **FIG.14A**; once the piston O-rings begin to make contact with the "DRAW VALVE PORT(S)", gently wiggle the unit while pushing upward on the ends of the underside of the "INTERFACE MANIFOLD ASSEMBLY".

Located on the top of the "CENTER PISTON" is a "KEEPER". The "PRO-CONTROL" is in position when the keeper can properly securing the unit into place.



(Image for illustration only) **FIG.14A**

Keeper
Switch

Draw Valve Handle
Keeper (Appendix A)

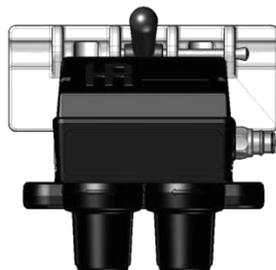


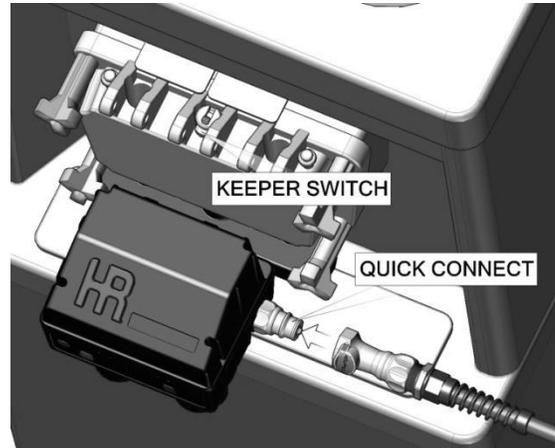
FIG.14B

Illustrations show variant Keeper applications for securing the Pro-control unit.

Section 14: Details of the Hydra Rinse® Process

○ WATER SUPPLY HOSE:

Prior to connecting the "WATER SUPPLY", wet the O-ring on the "PRO-CONTROL QUICK CONNECT" **FIG.15** with either a "HYDRA RINSE® WIPE" or with the sanitizer/cleaner solution; once connected, if the water source has not been turned on yet, you will need to do so before adding the "LEXX™ CUPS".



Note: Always ensure cup housings are present and that you haven't added new LEXX™ Cups until the water source is connected and turned on.

○ ADDING LEXX™ CUPS:

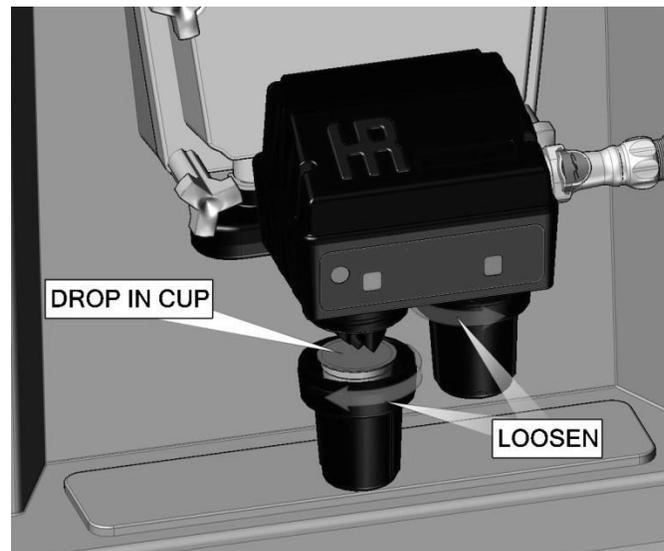
To remove the left "CLEANER CUP HOUSING", rotate outward from the center of the Pro-control for less than a quarter turn. To remove the right "SANITIZER CUP HOUSING", once again rotate outward from the center of the Pro-control for less than a quarter turn.



(Image for illustration only) **FIG.15**

Drop 1 ready to use 2 fl. oz. "LEXX™ CUP" into each of the cup housings.

While pushing the nested "LEXX™ CUP" up into the piercing features of the "PRO-CONTROL", align the mating features of the "CUP HOUSING" to the main body; pay close attention that the cup lid has been adequately pierced.



(Image for illustration only) **FIG.16**

Practice working with the "CUP HOUSINGS" prior to adding actual cups.

Note: Lube the cup housing face seal **FIG.16A** with food safe lube when "ALIGNMENT ARROWS" become difficult to align

Lube sealing face, not O-ring (Bottom View)

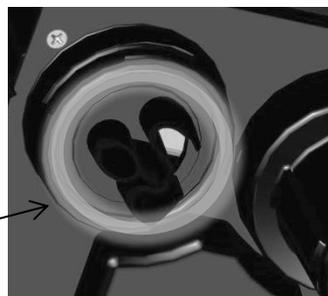


FIG.16A

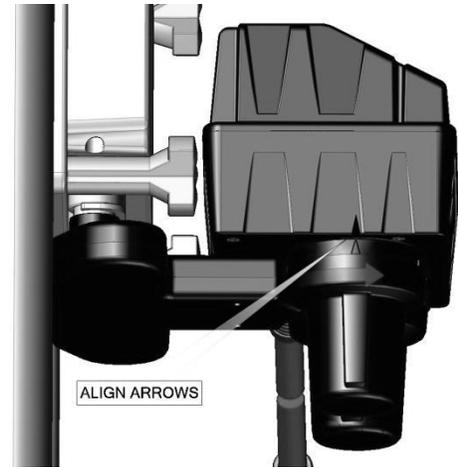
Section 14: Details of the Hydra Rinse® Process

○ TIGHTEN CUP HOUSINGS:

It's important that sanitizer/cleaner solution is present during every cycle, so too is proper tightening of both the "CLEANER CUP HOUSING" and the "SANITIZER CUP HOUSING".

To tighten the cup housings, rotate inward towards the center of the "PRO-CONTROL". As called out in **FIG.17**, there are corresponding "ALIGNMENT ARROWS" molded into the plastic components; for proper seal, ensure they are aligned together as illustrated.

Tip: (See "Storage", page 27 for proper arrow alignment for Pro-control when not in use.)

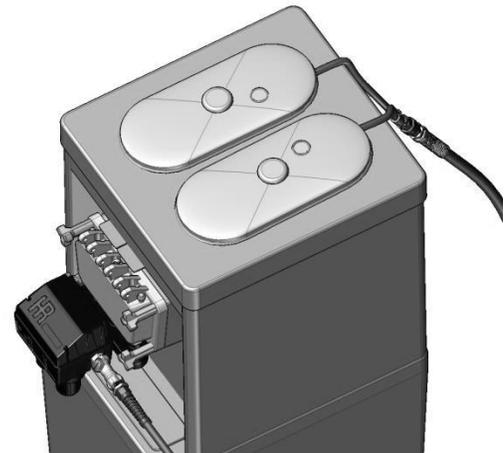


(Image for illustration only) **FIG.17**

○ START THE PRO-CONTROL CYCLE:

Run through this suggested check list before continuing:

- Bypass system in place, hopper cover(s) present.
- Bypass system drain hose is attached and secured to 1 of the 3 acceptable drain sources (page 10).
- Specified sanitary water source (page 1) connected and turned on.
- Re-install Prime plug(s) in freezer door if present.
- Fresh LEXX™ Cups present in both the cleaning and sanitizing cup housings.
- Soft Serve Machine Power is "ON"



(Image for illustration only) **FIG.18**

Section 14: Details of the Hydra Rinse® Process

Next, press and then release the “ONE TOUCH” button on the “USER INTERFACE” (you should see a green LED illuminate); “PRO-CONTROL CYCLE” initiated. After the yellow LED stops blinking, wait an additional 35 seconds and/or first beep sequence of the “PRO-CONTROL CYCLE” to place the soft serve machine in “WASH MODE”.

If for any reason there arises a need to quickly cancel the “PRO-CONTROL CYCLE”, press and then release the “PLAY/PAUSE” button within 15 seconds of pressing “ONE TOUCH”; the cycle will be canceled.

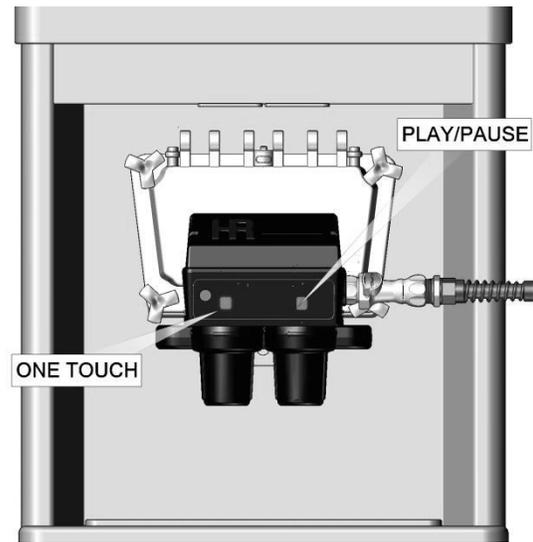
If it’s been longer than 15 seconds since pressing the “ONE TOUCH” button, the cycle cannot be canceled, only paused and the total available cycles will receive a “DING” i.e. $100 - 1 = 99$ remaining cycles.

Note: Pressing and releasing the “PLAY/PAUSE” button after the 15 second cancellation window has lapsed will only suspend the “PRO-CONTROL CYCLE” indefinitely until the “PLAY/PAUSE” button is pressed and released again to resume it; this allows end users to make necessary adjustments when required.

● ANCILLARY COMPONENTS:

While the “PRO-CONTROL CYCLE” is running for approximately 7 minutes, all previously removed components can be broken down for cleaning and sanitizing; use the “HRWAND128” in place of filling a three bay sink.

After components are deemed soil free, apply one last application of sanitizer/cleaner solution; **no rinsing** required prior to reassembly.



(Image for illustration only) **FIG.19**

Warning: If you press and then release the “RESET-CUPS-PROGRAM” button after the cycle has commenced, or any time before it has completed, your cycle will be aborted causing the “PRO-CONTROL” to reboot. You will be “DINGED” losing 1 cycle as if that cycle had completed successfully, so be mindful.



(Image for illustration only) **FIG.20**

Section 14: Details of the Hydra Rinse® Process

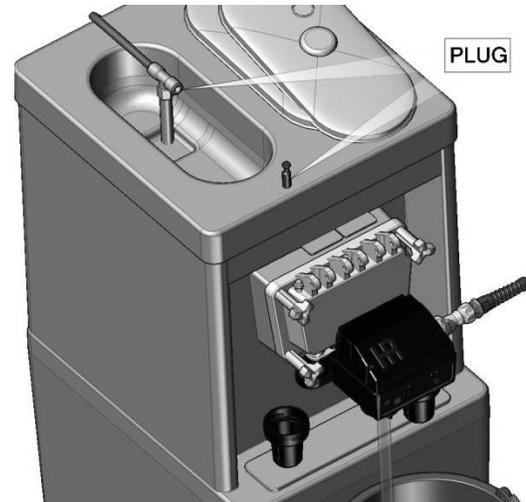
○ PRO-CONTROL CYCLE COMPLETE:

The Pro-control unit will beep 3 times, while the green LED begins to blink. Take the soft serve machine out of "WASH MODE", press and then release the "PLAY/PAUSE" button to conclude cycle, placing the Pro-control unit back into sleep mode. Drain solution and remove the "TAHYRPC PRO-CONTROL".

With a catch bucket below the unit, remove the "CLEANER CUP HOUSING"; left side as illustrated in **FIG.21**. Open the prime plug(s) if present to release back pressure and vacuum lock. An alternative option for relieving the vacuum lock, especially for machines without prime plug(s) is to remove the entire "BYPASS TUBE" from the product mix inlet hole; you'll find that pulling up on the prime plug(s) is more convenient.

Disconnect the "WATER SUPPLY" from the "PRO-CONTROL". Replace the cup housing, and then disengage the "KEEPER"; remove unit from the soft serve machine.

To simplify the removal of the "PRO-CONTROL": Simply wiggle the unit back and forth while pressing downward on the ends of the "PRO-CONTROL MANIFOLD", not the Pro-control itself **FIG.22**.



(Image for illustration only) **FIG.21**

Tip: Momentarily placing the soft serve machine in "WASH MODE" helps remove any remaining solution from the freezer barrel(s).

Note: Remember to periodically test Drained LEXX™ (**Appendix C**).

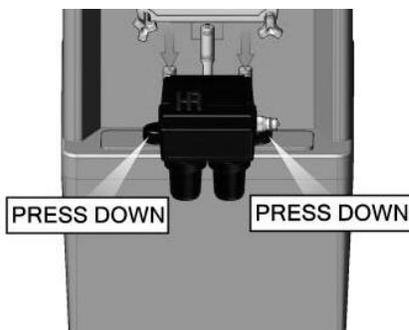
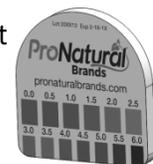


FIG.22

Section 14: Details of the Hydra Rinse® Process

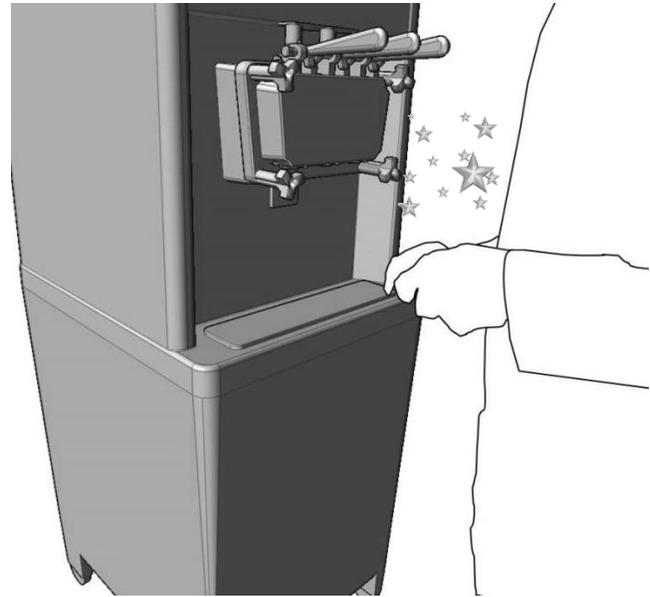
○ MACHINE RE-ASSEMBLY:



Take care when re-assembling the soft serve machine to ensure that you are not re-introducing any contaminants while handling the components; this is a good time to refresh your gloves! Prior to re-assembly of the freezer door, use an OEM barrel brush and give the draw valve port(s) a good mechanical scrubbing; this also applies to the prime plug port(s) if present. Adequately flush all mechanically scrubbed surfaces with the Wand and then precede to re-assemble the front freezer door.

This concludes the cleaning and sanitizing of the soft serve machine without mechanical scrubbing of the internal components.

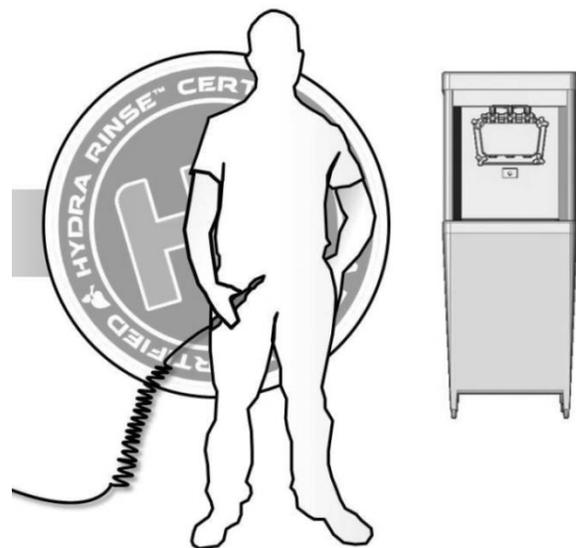
Tip: Use the "HRWAND128" to keep things wet during re-assembly! This will ensure sanitization while handling components, which also provides lubrication for the lubeless O-rings during re-insertion!



(Image for illustration only) **FIG.23**

○ FULL MACHINE TEARDOWN FOR MECHANICAL SCRUBBING OF INTERNAL COMPONENTS:

The "PRO-CONTROL" has a special function that enables the end user to pause the cleaning and sanitizing cycle for mechanical scrubbing. This function will be described next, "SEQUENCE FOR MECHANICAL SCRUBBING INTERNAL COMPONENTS".



(Image for illustration only) **FIG.24**

Section 14: Details of the Hydra Rinse® Process

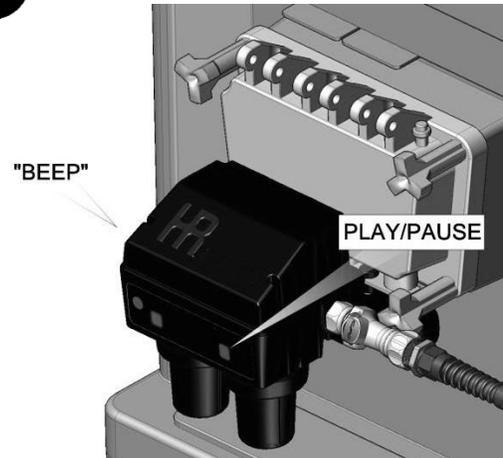
↓ SEQUENCE FOR MECHANICAL SCRUBBING INTERNAL COMPONENTS ↓

★ PAUSING THE PRO-CONTROL:

Roughly 3.5 minutes into the 7 minute cycle, the "PRO-CONTROL" will sequentially "BEEP" for 15 seconds while all three LEDs "BLINK" simultaneously.

During this sequence press and then release the "PLAY/PAUSE" button to suspend the cycle indefinitely, allowing for machine teardown and mechanical scrubbing.

Once in pause mode, the "GREEN LED" on the "USER INTERFACE" will blink and a "BEEP" will sound once every 30 seconds until the "PLAY/PAUSE" button is once again pressed and then released to resume the cycle.



(Image for illustration only) **FIG.25**

Warning: The sanitizer cup solution has not been dispensed yet so do not remove it.

★ SCRUBBING INTERNAL COMPONENTS:

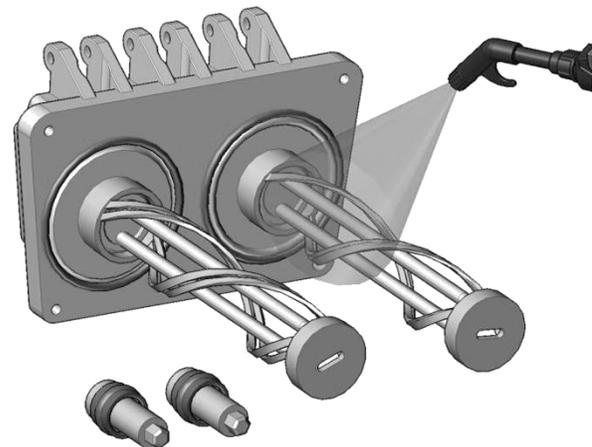
Power down the soft serve machine, "DRAIN SOLUTION", "DISCONNECT WATER SUPPLY" and remove the "PRO-CONTROL" (page 22).

Once the "FREEZER DOOR" is removed from the machine: Use the applicable brushes that were supplied with the OEM soft serve machine for mechanical scrubbing of all components and internal surfaces; including "PRIME PLUG(S)" if applicable. Use the HRWAND128 for dispensing sanitizer/cleaner solution instead of using a 3-bay sink.

Once the components are deemed soil free, apply one last application of sanitizer/cleaner solution; **no rinsing** required.

Re-install "INTERNAL COMPONENTS", "FREEZER DOOR" and all respective "EXTERNAL COMPONENTS".

Note: Lube is required on "BEATER SHAFT" only before re-assembly (page 12 **FIG.6**).



(Image for illustration only) **FIG.26**

Note: (some soft serve machines require the Freezer Door to be removed and powered down for 5 minutes in order to reset the "Brush Clean" display counter).

Section 14: Details of the Hydra Rinse® Process

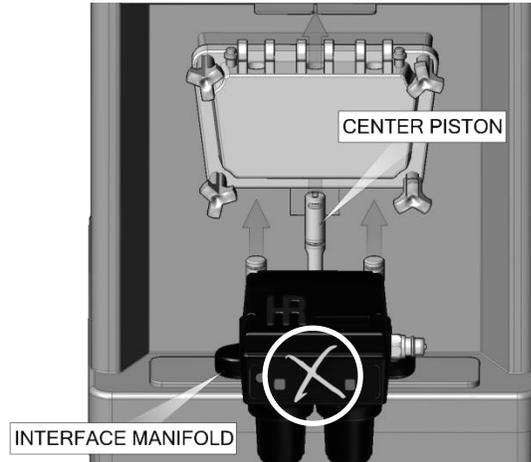
★ RE-INSTALL PRO-CONTROL:

The "PRO-CONTROL" is currently in pause mode, so take care not to press any buttons on the "USER INTERFACE" while re-installing.

To assist with installing the "PRO-CONTROL", wet the O-rings on the pistons with either a "HYDRA RINSE® WIPE" or with sanitizer/cleaner solution.

Simply use the "CENTER PISTON" to guide the unit up into the "CENTER DRAW VALVE PORT"; once the piston O-rings begin to make contact with the "DRAW VALVE PORT(S)", gently wiggle the unit while pushing upward on the ends of the "INTERFACE MANIFOLD ASSEMBLY".

Associated with the "CENTER PISTON" is a "KEEPER". The "PRO-CONTROL" is in position when the "KEEPER" can properly securing the unit into place.



(Image for illustration only) **FIG.27**

Note: Ensure Prime Plug(s) are re-installed prior to reattaching the Pro-control unit if applicable.

★ RESUME CYCLE:

"RE-ATTACH WATER SUPPLY" and the "BYPASS SYSTEM" if for any reason you needed to remove it. Press and then release the "PLAY/PAUSE" button to resume the cycle **FIG.28**. Place soft serve machine back into "Wash Mode" for each freezer barrel.

Note: All three LEDs will blink simultaneously on initial resumption of the cycle for approximately 20-30 seconds; sanitizer injection follows shortly thereafter.

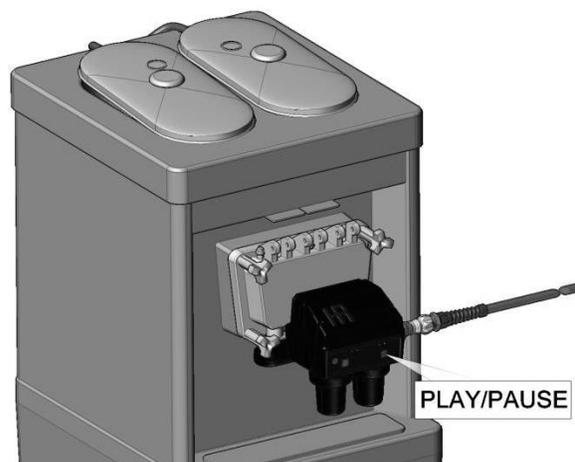


Image for illustration only) **FIG.28**

↑ SEQUENCE FOR MECHANICAL SCRUBBING CONCLUDED ↑

Section 14: Details of the Hydra Rinse® Process

UTILITY ITEMS:

When cleaning and sanitizing all utility items like waste catch buckets and OEM brushes; remember to integrate the "HRWAND128" and "HYDRA RINSE® WIPES" into all pre-established cleaning protocols for time savings and operator efficiency.

Tip: The HRWAND128 sanitizer/cleaner solution can also be applied to any non-porous hard food contact surface i.e. floors, food prep areas/counter tops, etc.

Note: OEM barrel brushes work great when addressing the "BYPASS TUBE(S)"; remove "PUSH-TO-CONNECT PLUG(S)" to allow full access for brushing.



(Image for illustration only) **FIG.29**

FINAL STEPS:

"BYPASS TUBE(S) and the "HYDRA RINSE® PRO-CONTROL" will always require periodic cleaning and sanitizing.

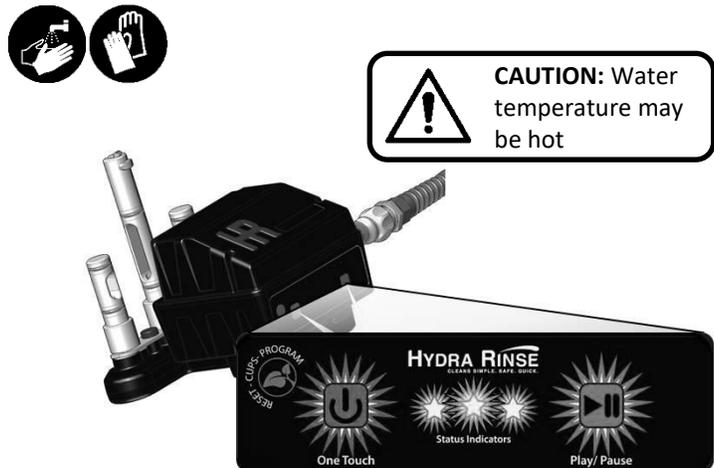
Remove the "BYPASS SYSTEM" from the soft serve machine. The "BYPASS TUBE(S)" is easily removable from the "BYPASS SYSTEM" for manual scrubbing, cleaning and sanitizing before stowing.

The "PRO-CONTROL" has a "SELF-RINSE CYCLE": To initiate, connect "WATER SOURCE" and ensure it's on. Press the "ONE TOUCH" and the "PLAY/PAUSE" buttons simultaneously and hold for ~5 seconds.

All three LEDs (Green, Yellow, and Red) on the "USER INTERFACE" will illuminate indicating that the "SELF-RINSE CYCLE" has commenced; release buttons.

Hold unit over a drain source or catch bucket while flushing is in process.

Tip: Wipe the "PRO-CONTROL" with "HYDRA RINSE® WIPES" while water is flowing from the unit to clean surfaces.



(Image for illustration only) **FIG.30**

Note: If the Green LED on the "USER INTERFACE" is still blinking, which indicates that the "PRO-CONTROL CYCLE" has completed successfully, the "PLAY/PAUSE" button will need to be pressed and then released prior to entering the "SELF-RINSE CYCLE"; cycle is approximately 30 seconds in duration. (repeat as many times deemed necessary)

Section 14: Details of the Hydra Rinse® Process

CLEANUP AND STORAGE

SUGGESTIONS:

After removal of the "BYPASS SYSTEM" and re-assembly of the soft serve machine i.e. "DRAW VALVE(S)", "DRAW VALVE HANDLE(S)", "PIVOT PIN(S)", "PRIME PLUG(S)" and "DESIGN CAP(S)" if applicable; re-introduce product mix into the machine by chasing some product mix through the freezer barrel(s) by momentarily holding open the draw valve(s); this will remove any residual solution.

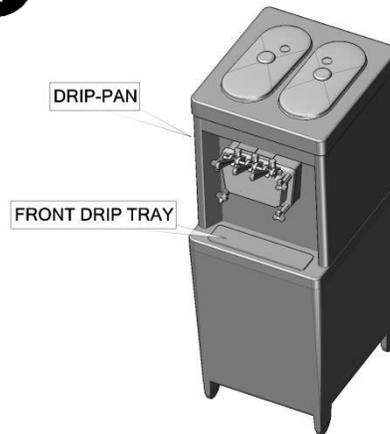
If intentions are to leave the machine empty for more than 72 hours, you will be required to power off the soft serve machine, remove the "FREEZER DOOR" and disassemble all internal components allowing them to air dry; this is usually the case for end of season storage of the soft serve machine.

Ensure "AIR/FEED TUBE(S)" and "PUMP(S)" if applicable is replaced prior to putting "HOPPER COVER(S)" back in place.

Wipe down "FRONT DRIP TRAY" and inspect all "DRIP PAN(S)" for cleanliness; give the machine a good wiping down too.

Stow the "25' BYPASS SYSTEM DRAIN HOSE", "WATER SUPPLY HOSE" and the "PRO-CONTROL" in a clean, dry place having a temperature range no less than 60°F (15.5°C) and no greater than 90°F (32°C).

"TOKEN TAG" registration is a onetime event for every box of "LEXX™ CUPS"; it's not required prior to every "PRO-CONTROL CYCLE". Keep the "TOKEN TAG", and do not dispose of it. As mentioned earlier, you can use a previously registered "TOKEN TAG" to read out the number of remaining cycles residing in the "PRO-CONTROL".



(Image for illustration only) **FIG.31**



Warning: Though our devices are engineered to the highest standard, it is recommended at the end of every day that the water source supplied to the HRWAND128 "WSF128-169 PORTABLE WANDSTATION" and the "PRO-CONTROL" is turned off; connections are not intended for permanent installation. Leaving the devices under constant static pressure could result in unwanted water damage or flooding.

Tip: After every usage, remember to back off the "CUP HOUSINGS" as illustrated **FIG.32**. This will reduce the force required to remove the cups on next use.

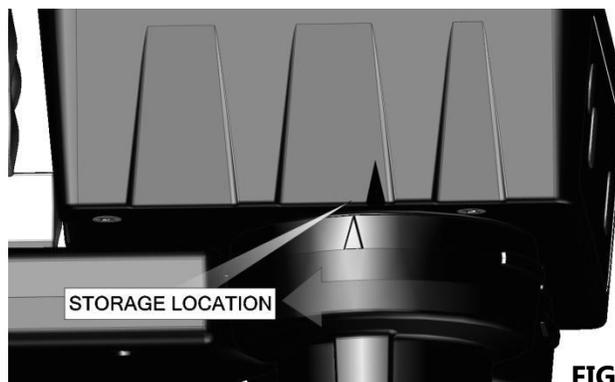
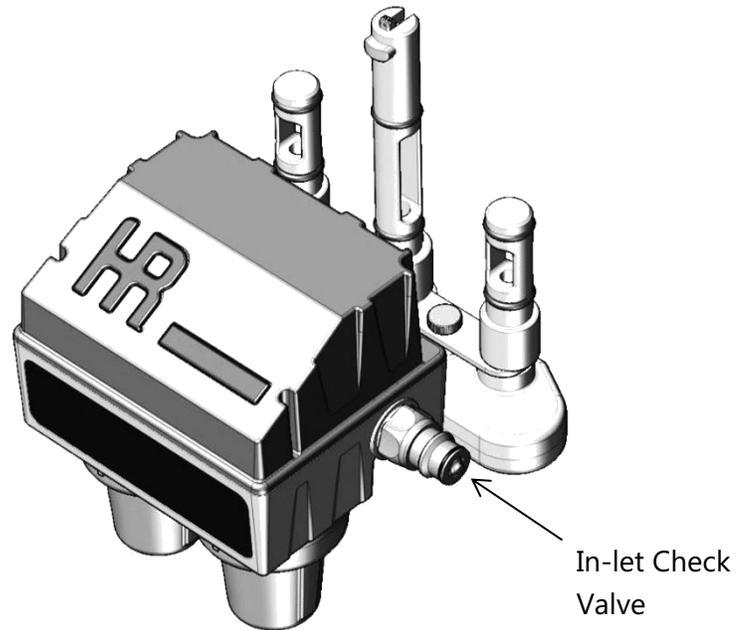


FIG.32

Section 15 : Troubleshooting Guide 1 of 2

Do to the sensitive nature of the "PRO-CONTROL"; always consult your local authorized Dealer/Reseller when an issue is unresolved.

Refer to the HRWAND128 "WSF128-169 PORTABLE WANDSTATION" Operators Manual for detailed and troubleshooting reference material regarding its practical operation.

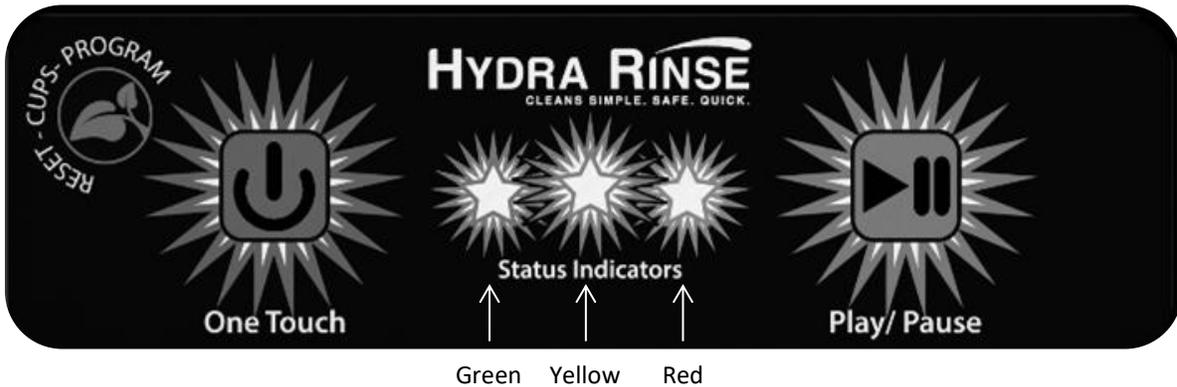


Issue:	Potential Cause:	Potential Solution:
Cycle won't start; Red LED blinks fast, Green and Yellow LEDs on.	<ul style="list-style-type: none"> The unit has no cycles left 	<ul style="list-style-type: none"> Need to register a new token tag "RESET-CUP-PROGRAM" button will need to be pressed to exit error
Red LED blinks slow, unit beeps every 15 seconds	<ul style="list-style-type: none"> Batteries are at end of life 	<ul style="list-style-type: none"> Install new batteries. "RESET-CUP-PROGRAM" button will need to be pressed to exit error.
Cycle started, no water flowing, but water is connected and turned on	<ul style="list-style-type: none"> Extened period of time that the unit has been sitting 	<ul style="list-style-type: none"> Refer to Appendix B Contact your local Hydra Rinse® Distributor/Reseller for more information
Unit will not power up	<ul style="list-style-type: none"> Check that batteries are correctly installed Corrosion on battery terminals 	<ul style="list-style-type: none"> Check and/or re-install batteries as required for proper operation Contact local Distributor/Dealer for replacement
Water lines leak	<ul style="list-style-type: none"> Improper engagement of push-to-connect to hose Loosely connected fittings 	<ul style="list-style-type: none"> Check and push hose into leaking fitting Tighten leaking fitting an additional, not to exceed 90-110° rotation

Section 15 : Troubleshooting Guide 2 of 2

Issue:	Potential Cause:	Potential Solution:
Cup housing(s) are hard to tighten	<ul style="list-style-type: none"> • Worn or no food safe lube present 	<ul style="list-style-type: none"> • Re-lube with food safe lube, replace O-ring(s) if problem unresolved
Cup housing(s) leak	<ul style="list-style-type: none"> • Ensure cups are properly engaged with the Pro-control housing 	<ul style="list-style-type: none"> • Replace O-ring(s)
Bypass Tube won't stay in Mix Inlet Hole	<ul style="list-style-type: none"> • O-ring(s) worn • Food safe lube present • Frozen mix left in Freezer Barrel(s) • Blocked discharge hose 	<ul style="list-style-type: none"> • Replace O-ring(s) • All lube must be removed • Never perform cycle with frozen mix • Ensure no kinks or blockages in hose
Quick connects leak	<ul style="list-style-type: none"> • Worn out, O-ring damaged 	<ul style="list-style-type: none"> • Contact local Distributor/Dealer for replacement parts/ O-ring

Section 16: Pro-control LEDs 1 of 2



LEDs are the communication portal between end users and the Pro-control. Here's a few to understand: (Status Indicators from Left to Right: Green, Yellow, Red)

= LED Blink, = LED On, = LED Off, S = Slow, F = Fast, (1st, 2nd, 3rd) = Order of Blink

PROCESS CODES:					
<u>GREEN</u> Hundreth	<u>YELLOW</u> Tens	<u>RED</u> Ones	<u>BEEP</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
			-	Pro-control "Power ON"	-
			-	Pro-control "Processing"	-
F			Every 30 seconds Double Beep	Pro-control "Pause Mode"	Press "PLAY/PAUSE" to resume cleaning sequence
S			-	Pro-control has completed a successful cycle	Press "PLAY/PAUSE" to conclude cycle
1 st	2 nd	3 rd	-	Left to Right LED sequence: Indicates Pro-control is in "Cleaning" Mode	-
1 st	2 nd	1 st	10 consecutive beeps	Inward LED sequence: Indicates Pro-control is in "Agitate Solution" Mode Inward LED sequence: Indicates Pro-control is in "Agitate Solution" Mode	- Place Soft Serve Machine in "Wash Mode" reminder

Section 16: Pro-control LEDs 2 of 2

= LED Blink,
 = LED On,
 = LED Off,
 S = Slow, F = Fast, (1st, 2nd, 3rd) = Order of Blink

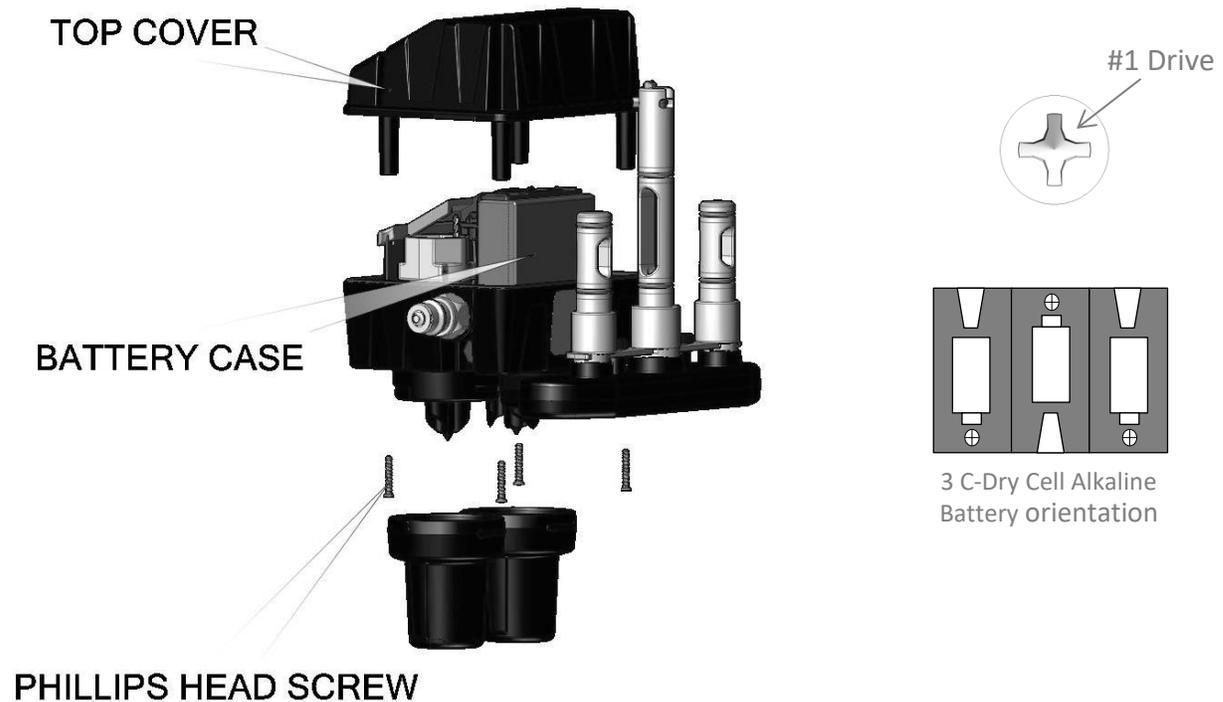
PROCESS CODES CONTINUED:

<u>GREEN</u> Hundreth	<u>YELLOW</u> Tens	<u>RED</u> Ones	<u>BEEP</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
			15 consecutive beeps	All LEDs Flash simultaneously: 20 seconds to halt cycle for full teardown All LEDs Flash simultaneously: End user pressed "PLAY/PAUSE" button resuming cycle after teardown	Press and then release the "PLAY/PAUSE" button Allow cycle to complete
3 rd	2 nd	1 st	-	Right to Left LED sequence: Indicates Pro-control is in "Sanitizing" Mode	-

ERROR CODES:

		F	Pulse Beep	End user pressed the "ONE TOUCH" button, no Tokens	Register Token Tag with Pro-control (Section 7)
		F	-	End user pressed the "ONE TOUCH" button, Pro-control is not programmed with a cleaning cycle script	CONTACT Dealer/Reseller
		S	Pulse beep every 15 sec	End user pressed the "ONE TOUCH" button, Battery is below allowable threshold	Replace Battery (Section 17)
		F	Pulse beep every second	Pro-control cannot presently accept any more Token Tag cycles, Tokens were not registered (750 Max Limit met)	Save Token Tag for later use. Press and then Release the "RESET-CUPS-PROGRAM" button
			-	End User Checked for available token count, and no cycles were available: cycles=0.	Ensure to register a valid Token Tag. Press and then Release the "RESET-CUPS-PROGRAM" button once for registering and once to reset

Section 17: Battery Installation/Replacement



(Image for illustration only) **FIG.33**

In order to gain access to the "BATTERY CASE":

Note: Before changing the battery(s), remove the Pro-control from any areas that may allow water to enter into the inner housing compartment.

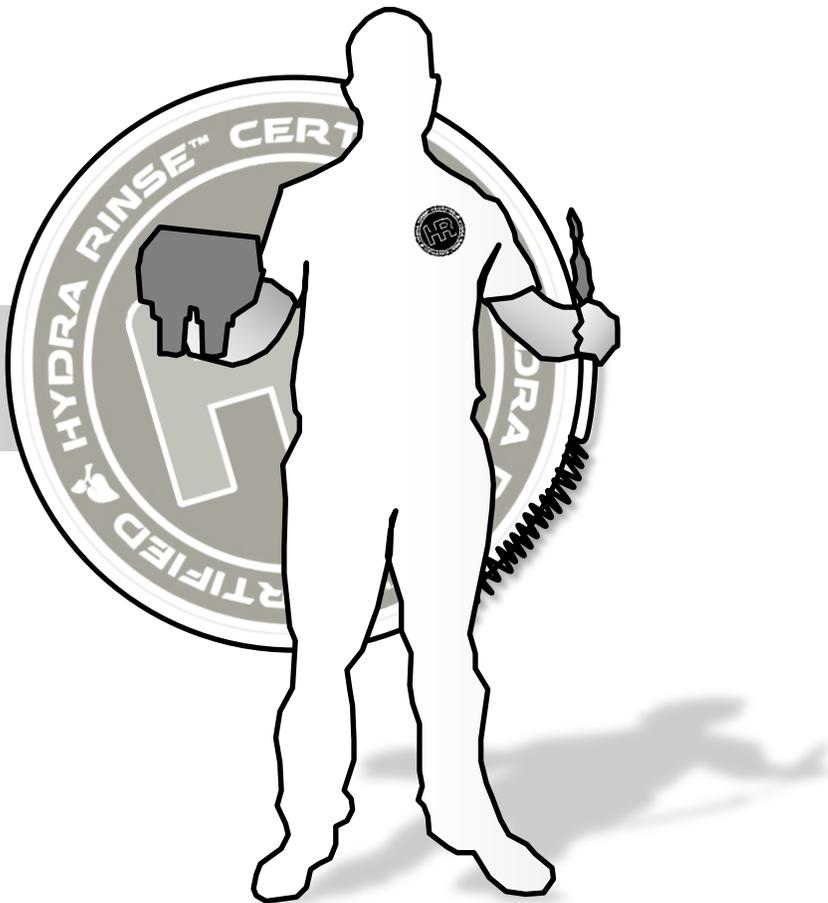
- Remove both "CUP HOUSINGS" from the "PRO-CONTROL".
- Remove the 4 "PHILLIPS HEAD SCREWS" that secure the "TOP COVER" to the "PRO-CONTROL HOUSING". (screws located on the underside of unit)
- Slide open the "BATTERY CASE COVER"; ensure batteries are correctly oriented **FIG.33**
- When replacing "PHILLIPS HEAD SCREWS", tighten in a cross pattern while paying close attention to "TOP COVER" gap. When "TOP COVER" meets the "PRO-CONTROL HOUSING" (no gap), stop tightening screw; over tightening may stress unit causing premature failure.

Section 18:

Replacement Components

FOR ORIGINAL EQUIPMENT
REPLACEMENT COMPONENTS PLEASE VISIT:

WWW.HYDRARINSE.COM



Section 19:

Warranty

The Seller warrants that the **TAYHR** will operate or substantially perform within the published specifications and be free from material and workmanship defects, when subjected to normal, proper and intended usage by properly trained personnel. Please visit www.hydrarinse.com for warranty registration.

Seller agrees during the Warranty Period, to repair or replace, at Seller's option, defective item(s) to allow the **TAYHR** to operate or substantially perform within the published specifications; provided the Buyer (a) promptly notifies the Seller in writing when the defect is discovered, and provides Seller the product model, serial number and details of the warranty claim; and (b) after Seller's review, Seller will provide Buyer with service data and/or a Return Merchandise Authorization ("RMA"), which may include product-specific handling instructions. At that time, the Buyer may return the defective item(s) to Seller with all return shipping costs paid by Seller. The Seller has the option to use new or refurbished replacement parts for warranty work. All replaced parts become the property of Seller. Shipment to Buyer of repaired or replacement parts/equipment will be made in accordance with the Seller's delivery policy.

The Seller has no obligation to make repairs, replacements or corrections, in whole or in part, as the result of: (i) normal wear and tear; (ii) accident, disaster or force majeure; (iii) the Buyer's misuse of the **TAYHR** or the Buyer's negligence; (iv) use of the **TAYHR** in a manner for which it was not designed or intended; (v) external causes such as, but not limited to, power failure or electrical power surges; (vi) improper storage or handling of the **TAYHR** by Buyer; or (vii) use of the **TAYHR** in combination with equipment not purchased directly from the Seller.

Any installation, maintenance, repair, service, relocation or alteration, or other tampering with, the **TAYHR** performed by any individual or entity other than the Seller, without Seller's prior written approval, or any use of replacement parts not supplied by Seller, shall immediately void and cancel this warranty. This warranty entitles to you specific rights, and you may also have other rights, which differ from state to state. No other warranties shall apply.

Section 20:

Appendix A

For Taylor Models: 150-XX, 161-XX, (C) 161-XX, 152-XX, (C) 152-XX, 162-XX, and 168-XX: The Center Draw Valve Handle will be repurposed to secure the Hydra Rinse® Pro-control to the soft serve machine as illustrated **FIG 1.4**.

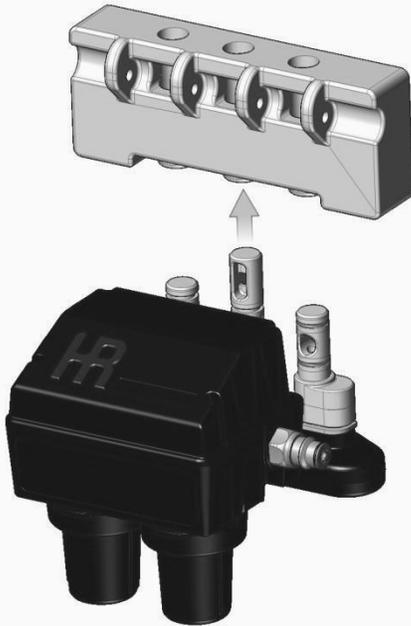


FIG.1.1

1.) Guide Pro-control into Freezer Door.

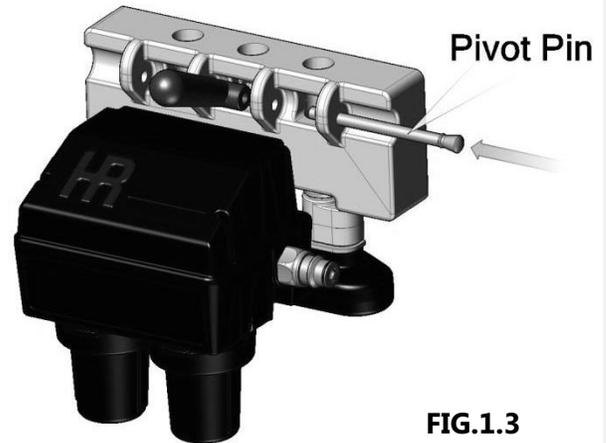


FIG.1.3

3.) While holding the Draw Valve Handle in place, reinsert the longer Pivot Pin as illustrated **FIG.1.3**.

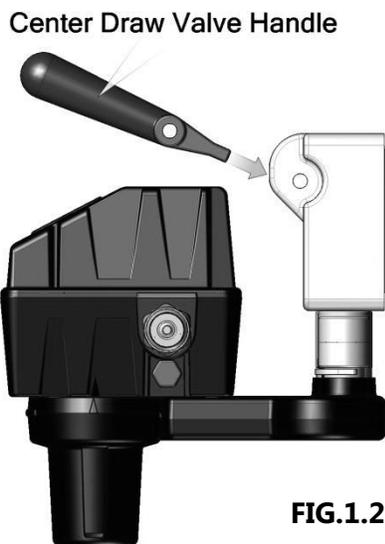


FIG.1.2

2.) With Pro-control in position **FIG.1.2**, reinstall Center Draw Valve Handle.

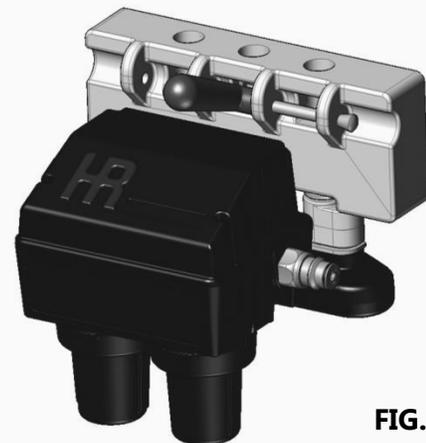


FIG.1.4

4.) The repurposed Center Draw Valve Handle will now secure the Pro-control in position during normal operation.

Section 21:**Appendix B**

FOR BREAK-IN PROCEDURES PERTAINING TO YOUR HYDRA
RINSE® PRO-CONTROL PLEASE VISIT
WWW.HYDRARINSE.COM/RESOURCES OR CONTACT YOUR
LOCAL HYDRA RINSE® DEALER



Section 22:

Appendix C

LEXX™ pH Solution Measurement

ProNatural® Brands pH Test Strip (HR-KT-0054)

Inspection Process:

1. Creating Test Solution:

Hydra Rinse® Pro-control:

After the completion of the Hydra Rinse® Pro-control cycle, drain LEXX™ solution from machine into a clean emptied catch bucket for collecting test solution (do not add used LEXX™ Cups to the drained solution in catch bucket)

Wand:

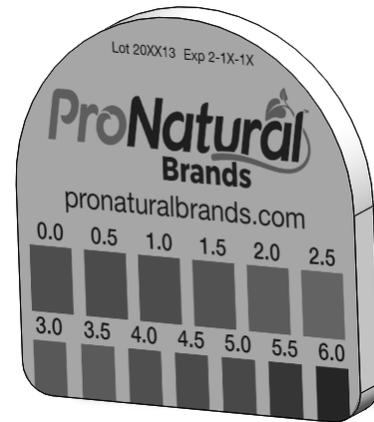
Allow solution to freely dispense into a catch bucket for a minimum of 30 seconds. Next collect at least 8 fl. oz. of solution into a clean emptied cup for collecting test solution.

2. Taking Measurement:

Submerge test strip (~2 inches in length from roll) in solution for 2 seconds. Compare wetted test strip immediately to the color scale.

3. Results:

Test strip should indicate ≤ 3.5 pH for an acceptable reading when testing with a LEXX™ pH Test Strip.



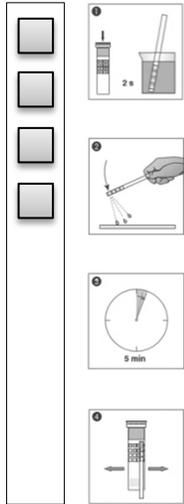
Section 22:

Appendix C

LEXX™ Total Acid Concentration (grams/Liter) Semi-quantitative Measurement (Sold separately)

QUANTOFIX® Total acid (Part no. 91353)

Inspection Process:



1. Creating Test Solution:

Hydra Rinse® Pro-control:

After the completion of the Hydra Rinse® Pro-control cycle, drain LEXX™ solution from machine into a clean emptied catch bucket for collecting test solution (do not add used LEXX™ Cups to the drained solution in catch bucket)

Wand:

Allow solution to freely dispense into a catch bucket for a minimum of 30 seconds. Next collect at least 8 fl. oz. of solution into a clean emptied cup for collecting test solution.

2. Taking Measurement:

Follow the instructions supplied with the QUANTOFIX® product to obtain the semi-quantitative total acid content.

3. Results:

Test strip should indicate between:
2.0-2.5 g/L



QUANTOFIX® Total acid

en

Description:
QUANTOFIX® Total acid are test strips for semi-quantitative determination of the total acid content. The total acid content is expressed as g of citric acid per L. QUANTOFIX® Total acid test strips are also suitable for reflectometric evaluation using the QUANTOFIX® Relax (REF 913 46).

Pack content:
1 aluminium can with 100 test strips

Measurement range

Visually: 2-5 g/L citric acid
Reflectometrically: 2-5 g/L citric acid

Color gradations:

0 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0

General indication:

Always withdraw test strip after 30 seconds.

Instructions:

1. Dip test strip into solution for 30 seconds.

2. Remove test strip and compare color with color chart.

3. Read result on color chart.

4. Dispose of test strip in accordance with local regulations.

5. Store test strips in original container.

6. Avoid exposure to moisture and high temperatures.

7. If stored properly, the shelf life is 12 months.

8. For more information, please contact our technical support.

9. The test strips are suitable for use in the following countries: USA, Canada, Mexico, Europe, Africa, Asia, Australia, New Zealand, South America, Middle East, and Africa.

10. The test strips are not suitable for use in the following countries: Russia, Ukraine, Belarus, and others.

11. The test strips are not suitable for use in the following countries: Cuba, Haiti, and others.

12. The test strips are not suitable for use in the following countries: North Korea, South Korea, and others.

13. The test strips are not suitable for use in the following countries: Israel, and others.

14. The test strips are not suitable for use in the following countries: Iran, and others.

15. The test strips are not suitable for use in the following countries: Iraq, and others.

16. The test strips are not suitable for use in the following countries: Syria, and others.

17. The test strips are not suitable for use in the following countries: Sudan, and others.

18. The test strips are not suitable for use in the following countries: Somalia, and others.

19. The test strips are not suitable for use in the following countries: Liberia, and others.

20. The test strips are not suitable for use in the following countries: Sierra Leone, and others.

21. The test strips are not suitable for use in the following countries: Ivory Coast, and others.

22. The test strips are not suitable for use in the following countries: Ghana, and others.

23. The test strips are not suitable for use in the following countries: Nigeria, and others.

24. The test strips are not suitable for use in the following countries: Kenya, and others.

25. The test strips are not suitable for use in the following countries: Tanzania, and others.

26. The test strips are not suitable for use in the following countries: Uganda, and others.

27. The test strips are not suitable for use in the following countries: Rwanda, and others.

28. The test strips are not suitable for use in the following countries: Burundi, and others.

29. The test strips are not suitable for use in the following countries: Malawi, and others.

30. The test strips are not suitable for use in the following countries: Zambia, and others.

31. The test strips are not suitable for use in the following countries: Zimbabwe, and others.

32. The test strips are not suitable for use in the following countries: Botswana, and others.

33. The test strips are not suitable for use in the following countries: Namibia, and others.

34. The test strips are not suitable for use in the following countries: Lesotho, and others.

35. The test strips are not suitable for use in the following countries: Swaziland, and others.

36. The test strips are not suitable for use in the following countries: Mauritius, and others.

37. The test strips are not suitable for use in the following countries: Seychelles, and others.

38. The test strips are not suitable for use in the following countries: Madagascar, and others.

39. The test strips are not suitable for use in the following countries: Comoros, and others.

40. The test strips are not suitable for use in the following countries: Mauritania, and others.

41. The test strips are not suitable for use in the following countries: Mali, and others.

42. The test strips are not suitable for use in the following countries: Niger, and others.

43. The test strips are not suitable for use in the following countries: Chad, and others.

44. The test strips are not suitable for use in the following countries: Cameroon, and others.

45. The test strips are not suitable for use in the following countries: Gabon, and others.

46. The test strips are not suitable for use in the following countries: Congo, and others.

47. The test strips are not suitable for use in the following countries: Democratic Republic of Congo, and others.

48. The test strips are not suitable for use in the following countries: Republic of Congo, and others.

49. The test strips are not suitable for use in the following countries: Equatorial Guinea, and others.

50. The test strips are not suitable for use in the following countries: Guinea-Bissau, and others.



Consult your local and state health codes for your requirements

*Recommend purchasing from CTL Scientific. Toll-Free: 888-686-3454

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