



Cumberland Series™ Sensor-Operated Lavatory Foaming Soap Dispenser Installation, Operation, Maintenance and Parts Manual



**Z6956-FSD
Cumberland Series™**

**Sensor-Operated
Lavatory Soap Foaming Dispenser**

LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assumes all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and lists are approximate and are not guaranteed.

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

NOTE: The information in this manual is subject to change at any time without notice. Installations may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.

Specifications

Power Supply: AC110V; DC 6V
DC 6V (4x "D" Cell Alkaline Batteries)
Soap Bottle Volume: 1600 mL
Dispensed Volume: 1 g Max (4 Adjustable Settings)
Soap Viscosity: 1 - 10 cPs
Operating Temperature: 35°F to 104°F [2°C to 40°C]

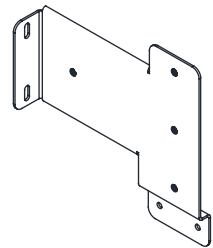
Important Safety Information

- Do not convert or modify this Zurn product. All warranties will be voided.
- All plumbing is to be installed in accordance with applicable codes and regulations.
- Sensor units should not be located across from each other or in close proximity to highly reflective surfaces.

Optional Accessories

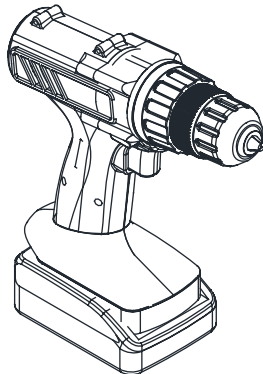


Magic Magnet
P6900-AT-MAG

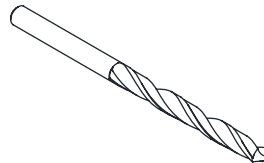


Stud Mounting Bracket
P6900-SD-BKT

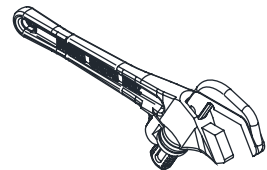
Required Tools



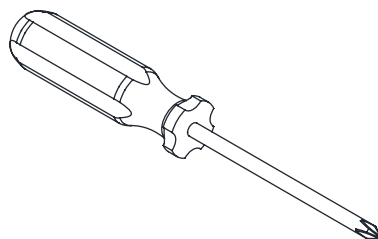
Hand Drill



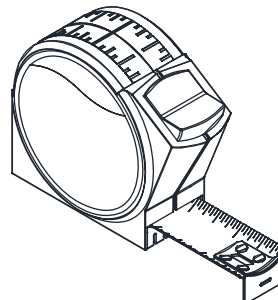
Drill Bits
-3/16", 1 1/4"



Smooth Jawed
Wrench

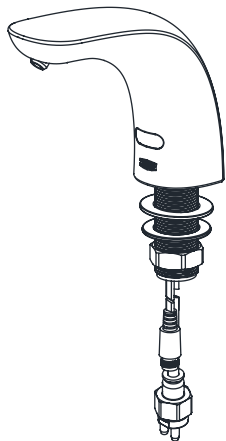


Phillips Head
Screwdriver

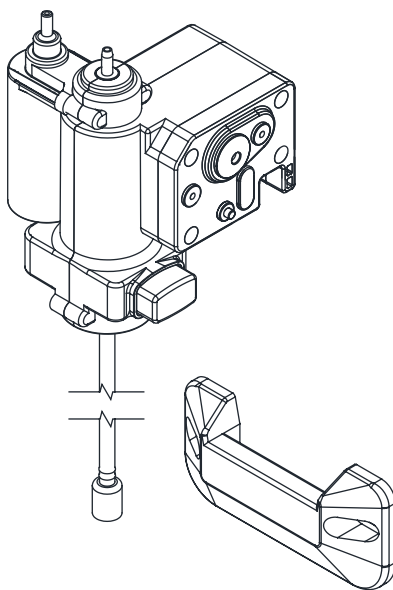


Measuring Tape

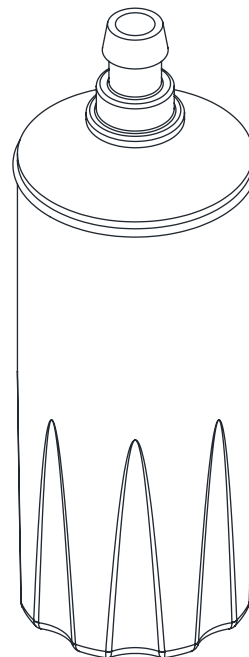
Package Contents



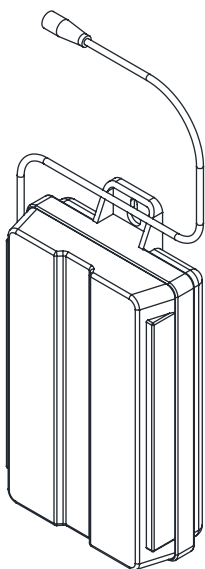
Cumberland Foaming Soap
Dispenser Assembly



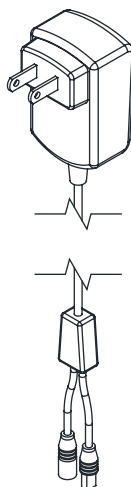
Control Box Assembly &
Mounting Bracket



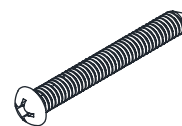
Soap Bottle



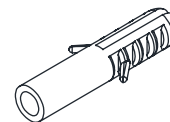
Battery Enclosure



AC Adapter



6x Mounting Screws



6x Plastic Wall Anchors



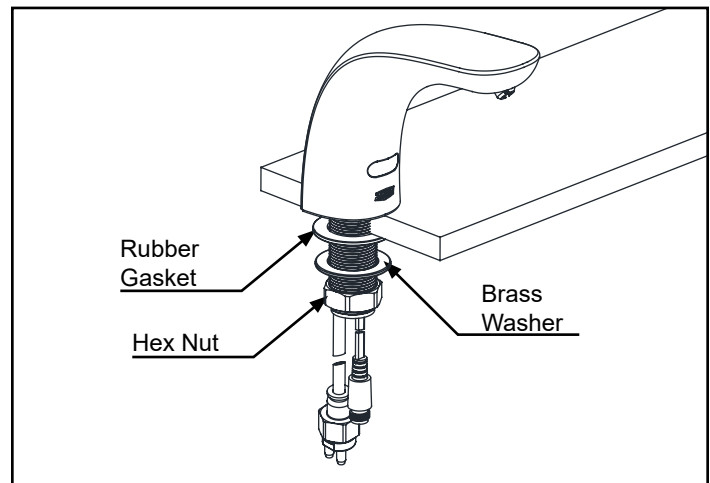
2x Hose Clamps

Spout Installation

1. Pass the sensor cable and both soap & air tube through the faucet hole on the sink or counter top. Insert the mounting shank through the same hole, make sure the dispenser lines up with the sink.

Note: The ideal hole size for this dispenser is 1" to 1 1/4".

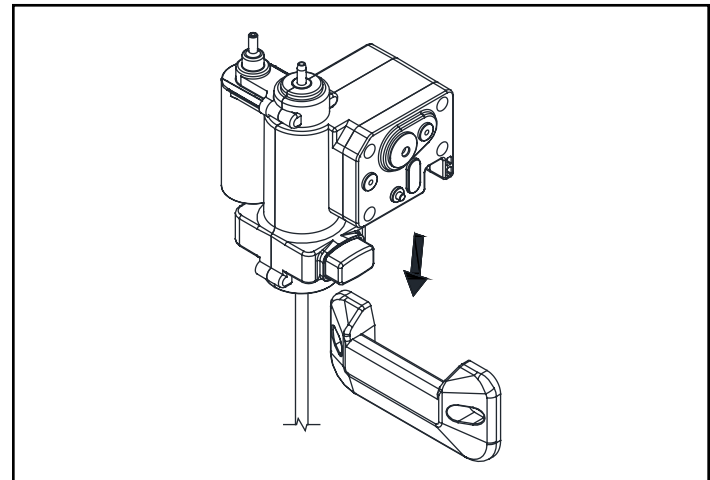
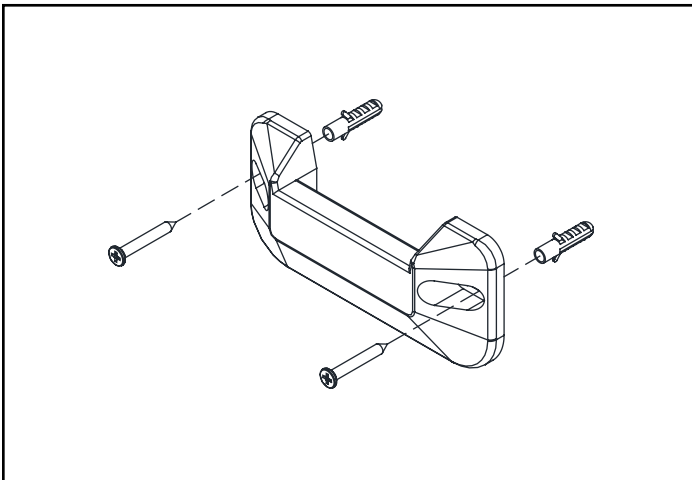
2. Next, put on the rubber gasket and brass washer onto the mounting shank, as shown. Use the hex nut to tighten the secure the dispenser in place



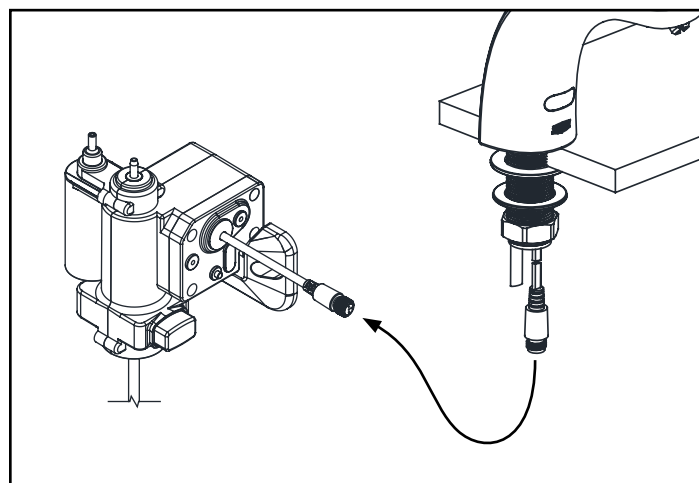
Control Box Installation

Note: It is recommended to test fit the assembly prior to installation to avoid interference with other components.

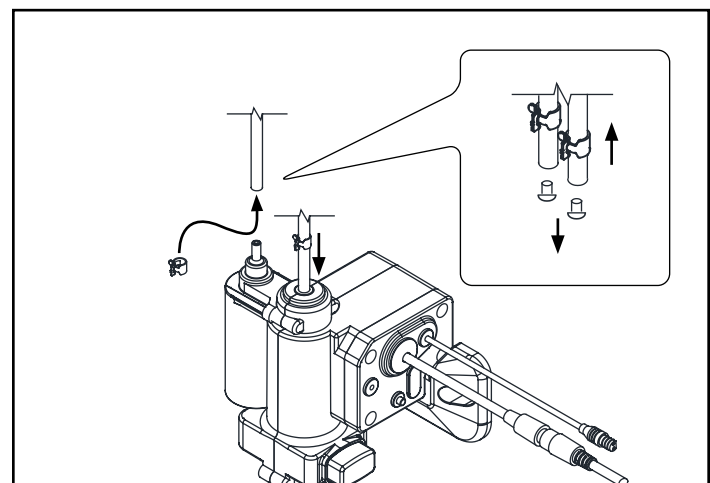
1. Use the wall hanger as a template to mark and drill 3/16" holes at the designated spots. Insert anchors flush with the wall, then secure the hanger with provided screws.
2. Hang the control box on the wall hanger. Ensure the control box is properly engaged with the wall hanger.



3. Connect the sensor cable from the dispenser to the control box. Press the two connectors together and tighten the cable nut.



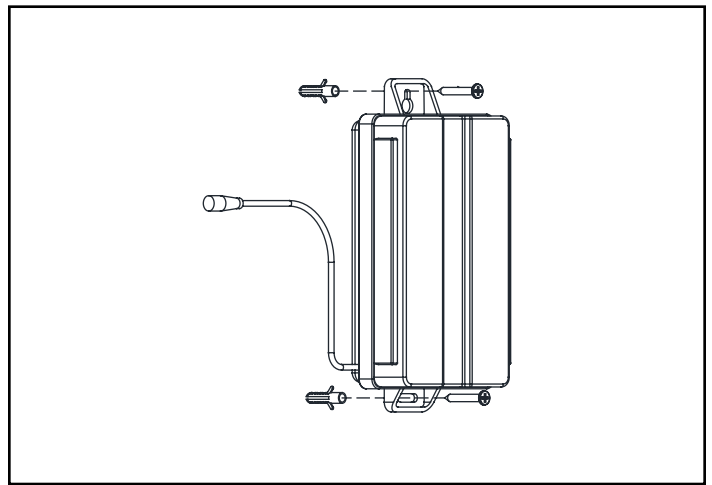
4. Remove brass caps & feed hose clamp(s) through soap (and air) tube from the dispenser. Connect either tube(s) to the control box's either soap (and Air) connections on the top. Then, slide the hose clamp(s) to secure the connection(s).



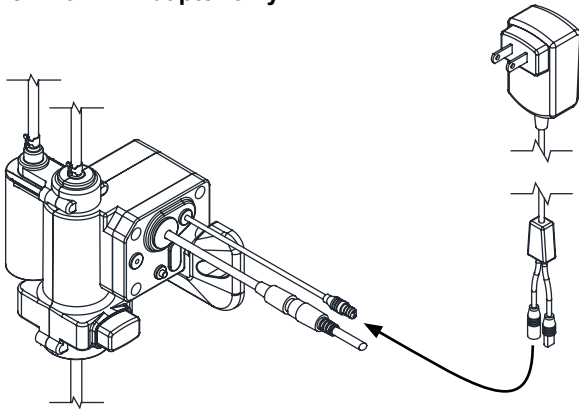
Power Source Installation

NOTE: This step is only necessary if utilizing the battery pack to power the unit. Mount the battery pack in an easily accessible area.

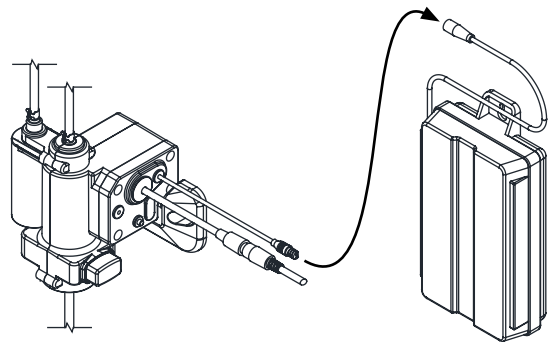
Use the battery enclosure as a template to mark and drill 3/16" holes at the designated spots. Insert anchors flush with the wall, then secure the hanger with provided screws.



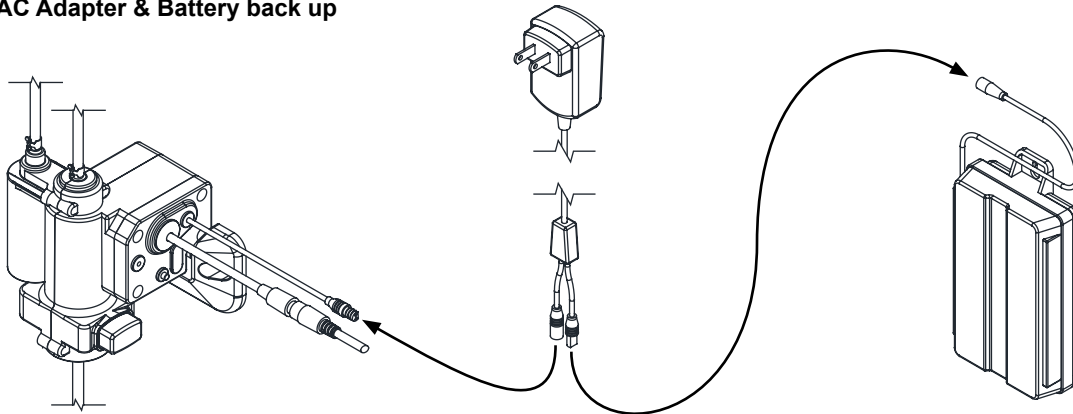
Power with AC Adapter only



Power with Battery Pack only

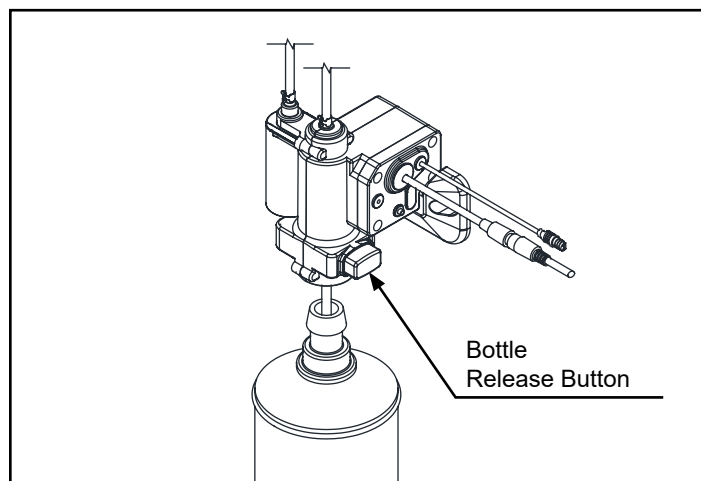


Power with AC Adapter & Battery back up

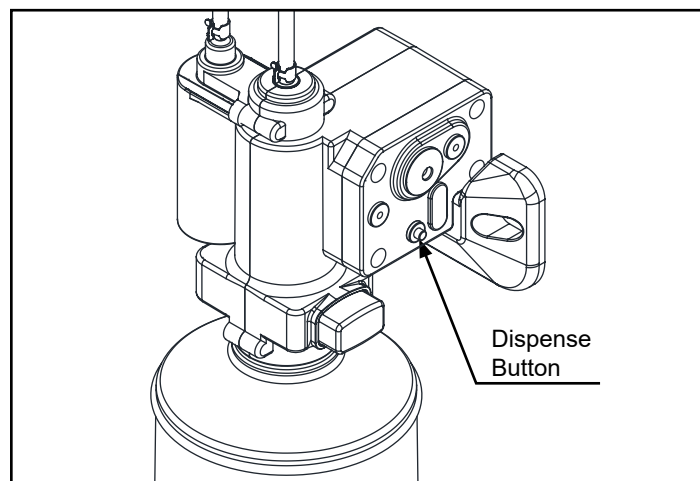


Preparing the Soap Dispenser

1. Fill up the soap bottle. Then, Slide the soap bottle up along the soap supply tube until the bottle release button clicked.



2. Press and hold the dispense button until soap emerges from dispenser nozzle. The dispenser is now primed and prepared for use.

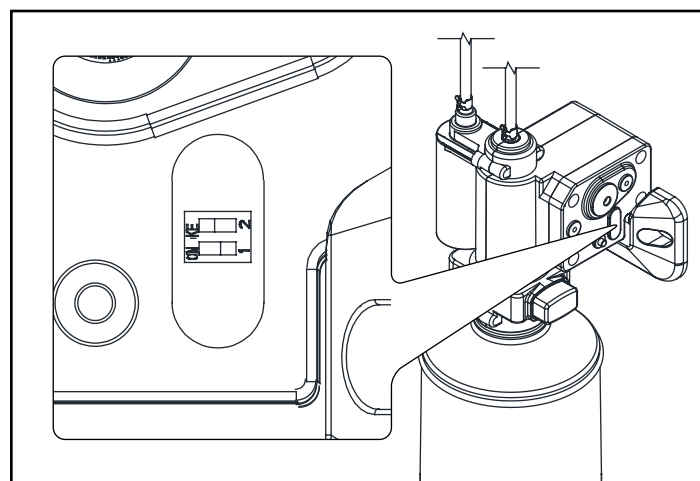


Soap Volume Adjustment

The Cumberland Foaming Soap Dispenser has four dispense volume settings. To access the Dip Switches for adjustment, remove the plastic boot located on the side of the control box.

Adjust the dispense volume by manipulating DIP switches according to the table provided below:

Dispense Volume	DIP switch #1	DIP switch #2
Low Volume	OFF	OFF
Normal Volume (Default)	OFF	ON
Medium Volume	ON	OFF
High Volume	ON	ON



Adjusting Calibration Distance

Each Cumberland Foaming Soap Dispenser comes calibrated from the factory to work optimally in most restroom environments. In low light or highly reflective environments. However, it may be necessary to adjust the calibration distance at times. To do this, a Zurn Magic Magnet may be used. To re-calibrate a Cumberland Foaming Soap Dispenser with a Magic Magnet, follow the procedure below:

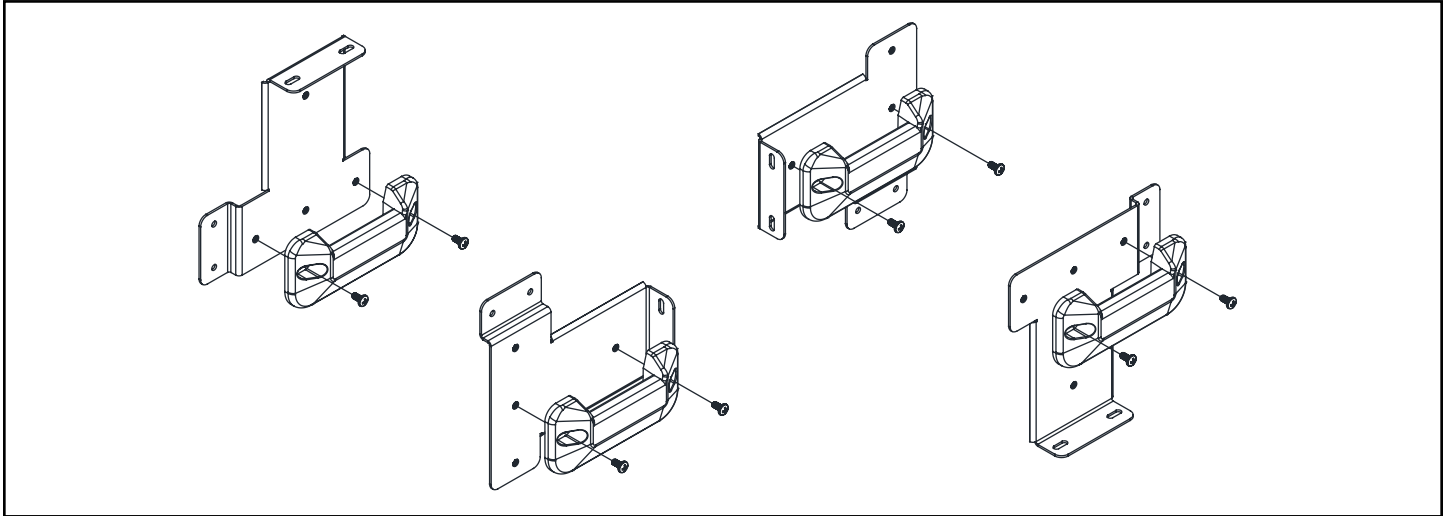
1. Hold a piece of white cardboard at the desired calibration distance:
2. Raise the Magic Magnet to the front of the sensor lens until LED flashing.
3. Remove the Magic Magnet and allow the LED to flash rapidly while keeping the cardboard at the same position. The calibration is finished when the LED stops flashing.

Optional Stud Mounting Bracket Installation

Zurn P6900-SD-BKT Stud Mounting Bracket can be incorporated with the provided standard control box mounting bracket to install in 4 different orientation to fit the soap dispenser control box assembly under the lavatory.

Reference any of the steps below based on your specific circumstance to mount the assembly.

1. Test fit the full assembly to determine the optimal orientation of P6900-SD-BKT Stud Mounting Bracket.
2. Attach the Control Box Mounting Bracket to P6900-SD-BKT Stud Mounting Bracket with the two provided machine screws.
3. Secure the P6900-SD-BKT Stud Mounting Bracket onto wooden wall studs using the slots or mounting holes with the provided thread forming screws. If the wall studs are made of different materials, use any appropriate commercially available mounting hardware.



Care and Cleaning Instruction

- Do not use any abrasive or chemical cleaners to clean the soap dispenser.
- If abrasives or chemicals are used it can lead to dulling of luster, attacking of chrome plating or decorative finishes.
- ONLY use mildly warm soapy water, and then wipe the device dry with a clean/soft towel or cloth.
- Upon cleaning other areas of the restroom be sure the sensor lenses are protected from other cleaning chemicals/solvents to prevent potential damages to the sensor and/or electronics.
- It is recommended to flush the system with warm water every 3 to 6 months.
 - With a minimal amount of soap in the soap bottle, fill the soap bottle with warm water.
 - Re-attach the soap bottle to the control box and press the dispense button. Hold the button down until all of the water has been flushed through the system.
 - Refill the soap bottle with soap and press the dispense button. Hold down the button until any residual water is pushed through the pump and soap is being dispensed. The dispenser is now ready to use.

Trouble Shooting Guide

PROBLEM	CAUSE	SOLUTION
No Soap Dispensed	There is air in the soap supply tube	Activate the sensor repeatedly until soap dispensed.
	Ambient temperature too low, soap is frozen.	Fill in small amount of warm water (About 140 °F)
	Not sufficient soap in soap bottle.	Refill soap bottle
	Soap too viscous	Substitute soap with the appropriate viscosity as indicated in viscosity range on page 1
Soap Dispensed as jet rather than foam.	Clogged foaming screen	Remove the nozzle, thoroughly clean the foaming screen, and then reinstall the nozzle
Continuous flow of soap.	Object detecting by sensor	Remove object or clean sensor lens
Short Battery Cycle	Incorrect Batteries	Change to 4 "D" cell alkaline batteries