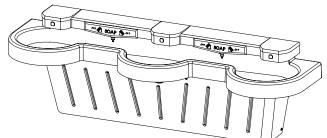


SS-3N with infrared activation, standard frame and liquid soap dispenser



SS-3N with infrared activation, wall-hung frame and liquid soap dispenser

# Installation

## SS-3N Infrared (Standard and Wall-Hung)

### Express® Lavatory System SS-Series

Express Lavatory Systems are ADA and TAS compliant U.S. Pat. Nos. 5,611,093, 5,369,818, D398,969 Other Patents Pending

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215-1493 Rev. K; ECN 17-08-010 © 2017 Bradley Page 1 of 14 5/18/2017 P.O. Box 309 Menomonee Falls, WI 53052 USA 800 BRADLEY (800 272 3539) +1 262 251 6000 bradleycorp.com



### WARNING

Make sure that all water supply lines have been flushed and then completely turned off before beginning installation. Debris in supply lines can cause valves to malfunction.

Turn OFF electrical power to the electrical outlets, then unplug all electrical units prior to installation. Electrical power MUST remain off until installation is complete. After installation is complete, turn on the water supply first, then turn on the electrical power.

Hardware supplied by installer must be appropriate for wall construction. Wall anchors must have a minimum pull-out rating of 1,000 lbs. Follow appropriate dimensions for standard or juvenile height based on configuration and required rim height. Overtightening fasteners can damage the Terreon® material. Use caution when tightening bowl and sprayhead fasteners.

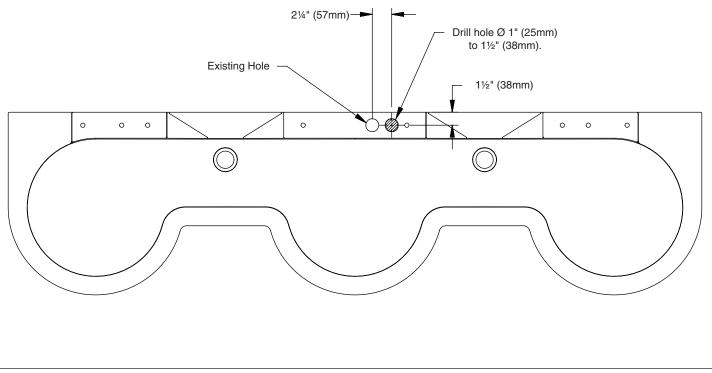
### **IMPORTANT**

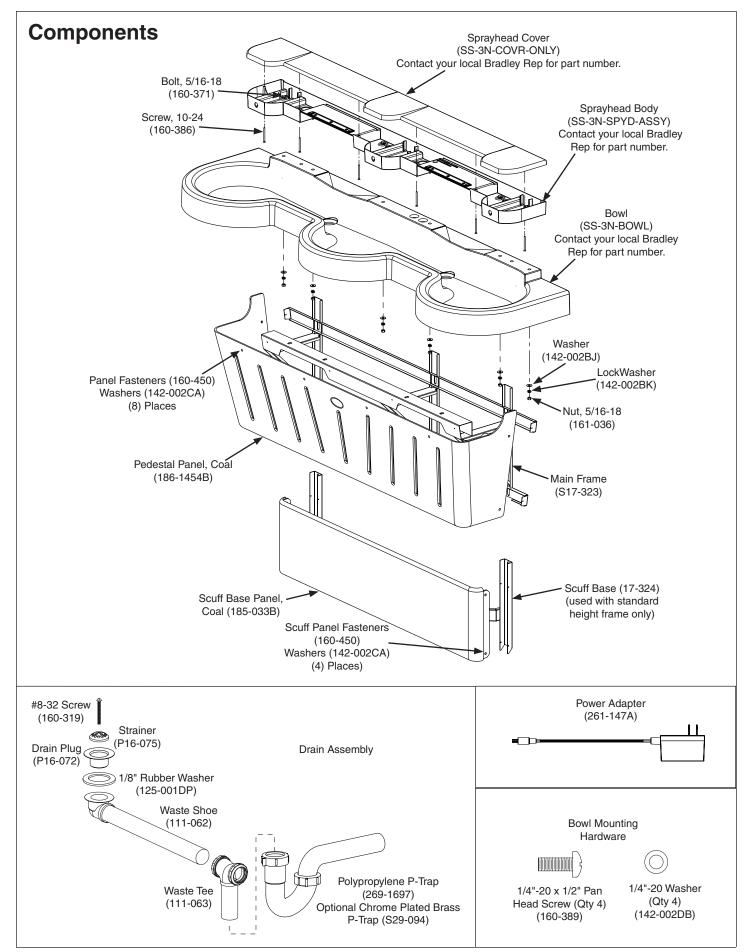
Read this entire installation manual to ensure proper installation. When finished with the installation, file this manual with the owner or maintenance department. Compliance and conformity to local codes and ordinances is the responsibility of the installer. Product warranties may be found under "Products" on our Web site at www.bradleycorp.com.

Separate parts from packaging and make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

## Special Note for Sprayhead/Bowl retrofit

to retrofit new SS-3N sprayhead onto existing SS-3 bowl



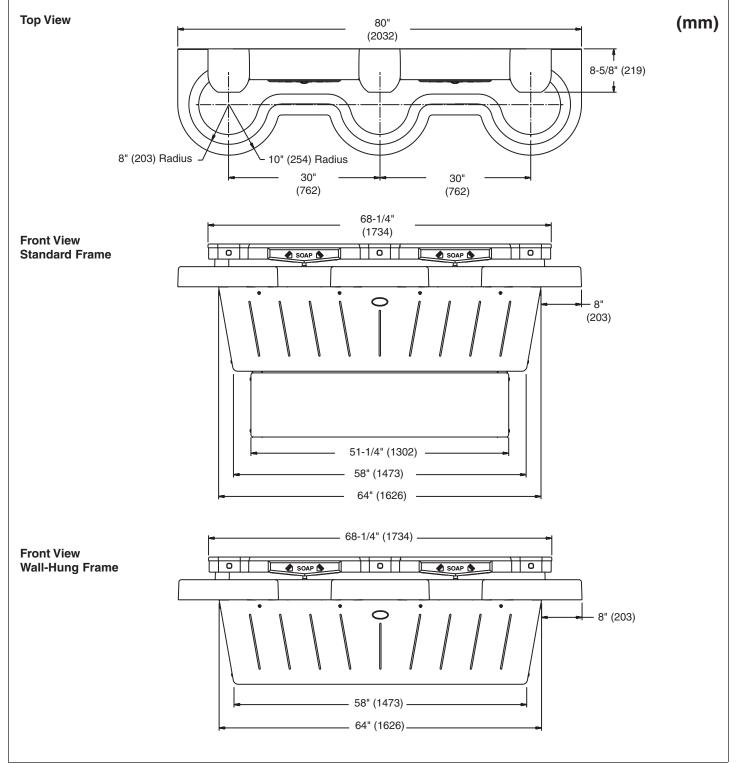


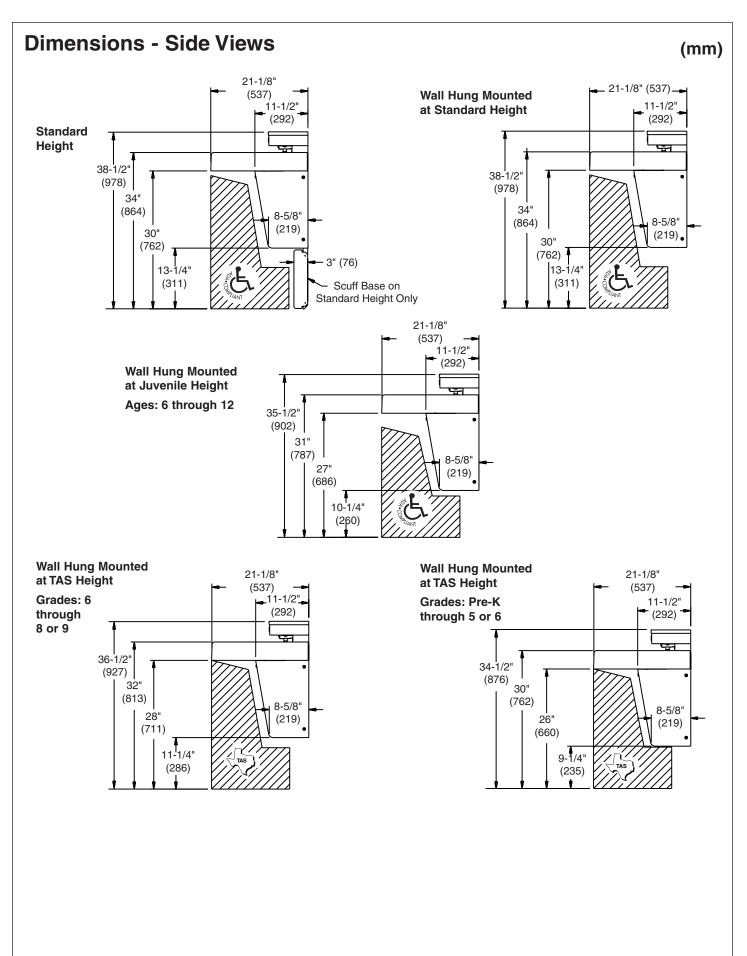
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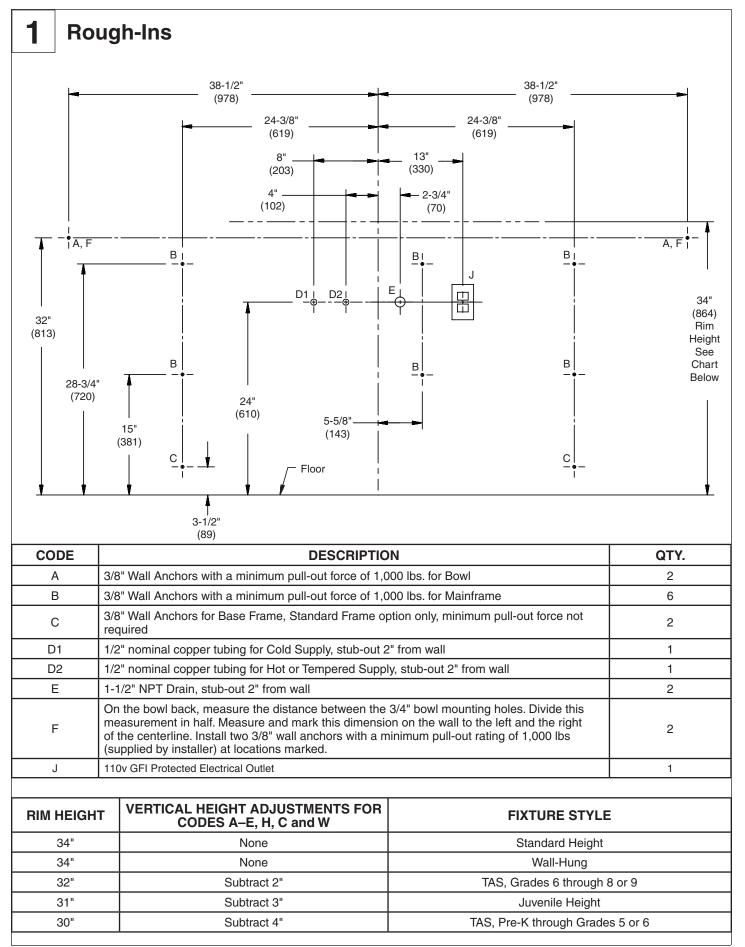
### **Supplies Required**

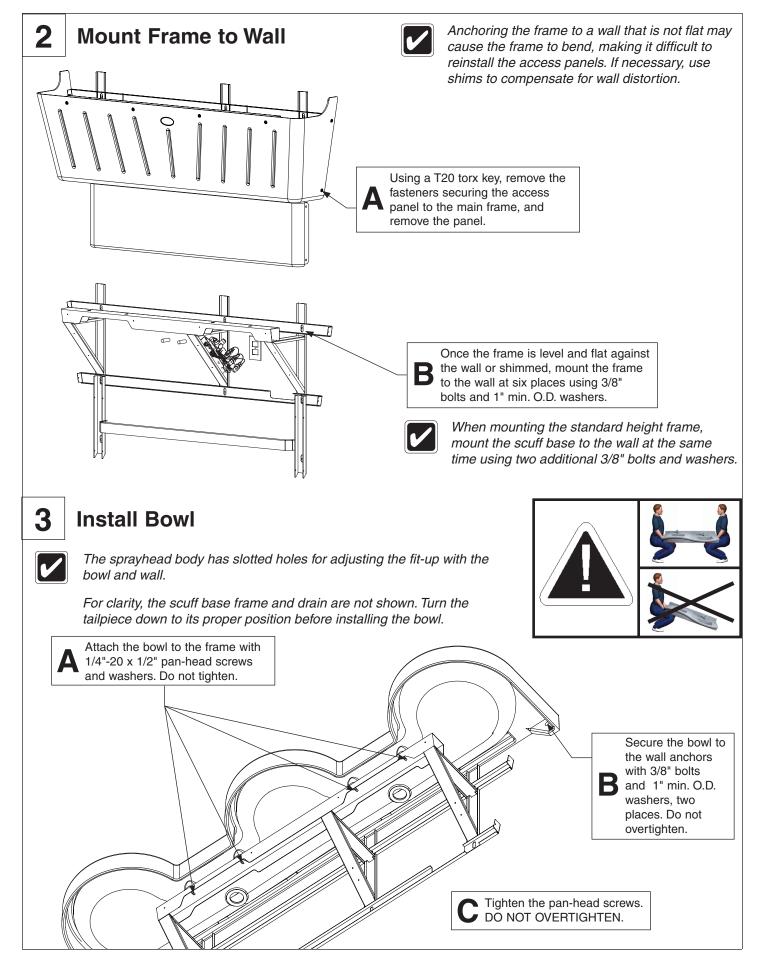
- (8) 3/8" wall anchors, bolts and 1" min. O.D. washers to mount main frame and bowl to wall (minimum pull-out rating of 1,000 lbs.)
- STD. HEIGHT ONLY: (2) 3/8" wall anchors, bolts and 1" min. O.D. washers to mount scuff base to wall
- 1/2" nominal copper tubing for hot and cold supplies and 1-1/2" NPT drain piping
- 120V/220V 50/60 Hz power source using Bradley supplied 120VAC/12V DC plug in adapter

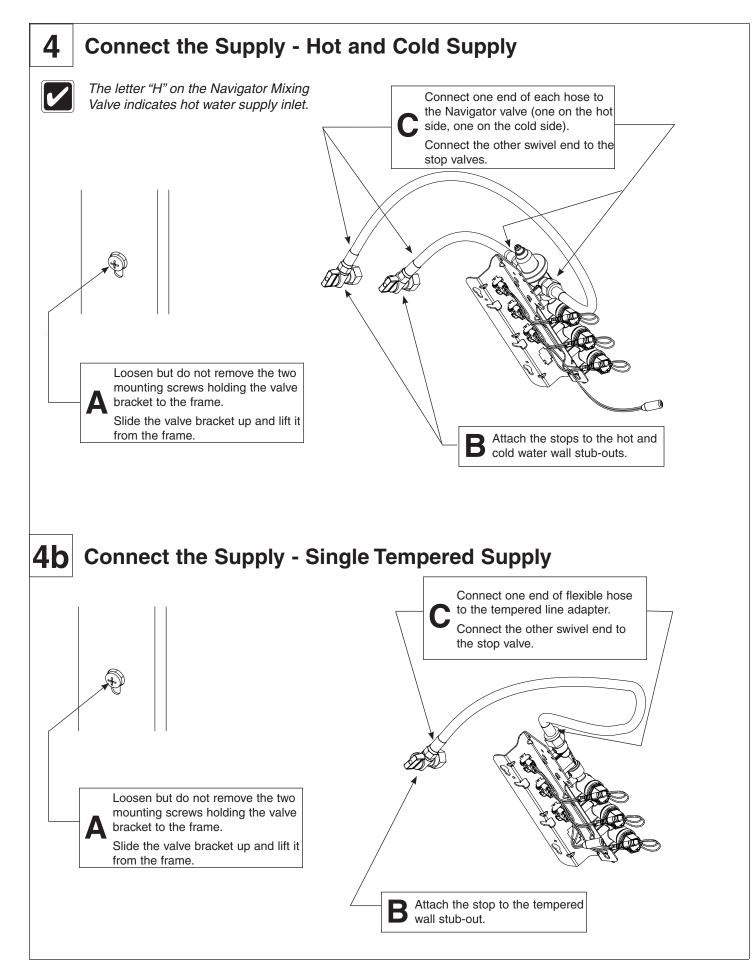
## **Dimensions - Front and Top Views**

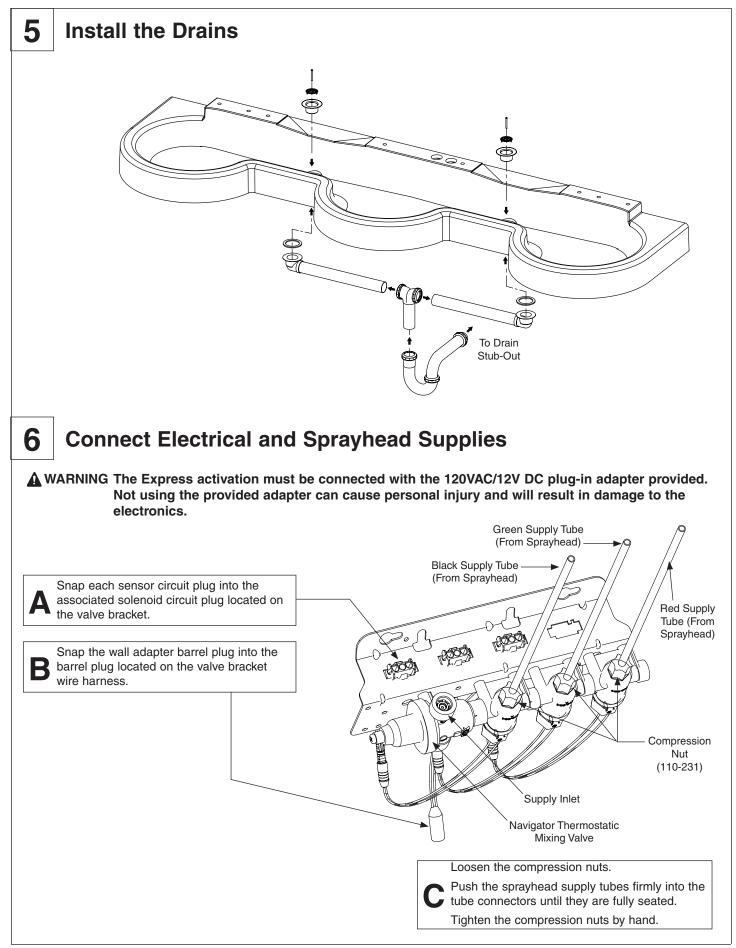












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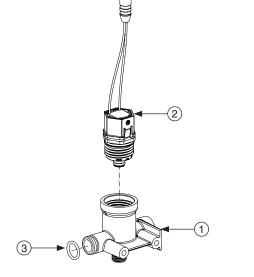
### 7 Adjust the Temperature Loosen Cap Screw about 1/4" (4-6 AWARNING This valve is NOT factory turns) and lift up cover (do not preset. Upon installation, remove). the temperature of this valve must be checked and adjusted to ensure delivery н of a safe water temperature. Using cover, turn cartridge gently until desired water temperature is reached. В Water in excess of 110°F Do not turn past stops as this may (43°C) may cause scalding. damage unit. Push cover down and tighten screw. Reinstall the valve bracket. Turn on the water supply and check for leaks. Turn on the electrical power to the electrical outlet and pass your hand in front of each station's sensor until all the air is purged from the lines and water is flowing smoothly. Reinstall the access panel. Wait two full minutes after making the power connection before using the lav. The sensors will take up to eight full minutes (while not in use) to adapt to the bowl if another object is detected during the two-minute start-up period. Sensor Assembly and Solenoid Valve Access To access sensors: 1. Remove the Phillips-head screws located in the bottom of the sprayhead body. 2. Lift the Terreon cover/shelf off. To reinstall sprayhead cover/shelf: 1. Position the cover/shelf on the sprayhead body. 2. Secure it to the sprayhead body using the screws provided. Sprayhead **Infrared Sensor** Components 269-1608HP-DC Nut, 1/2"-14 NSPM (110-115)Window (269 - 1241)Aerator Assembly (S05-180) O-Ring (125 - 157)

## Troubleshooting – Solenoid Valve: Part nos. S07-067-DC (closed body) & S07-067A-DC (thru body)



Turn off water supplies to the unit before troubleshooting.

Item	Qty.	Part No.	Description
1	1	118-334	Valve Body, 1/4" Closed
1	1	118-334A	Valve Body, ¼" Thru
2	1	S27-352	12VDC Valve Cartridge
3	1	125-165	O-Ring, #2-013



problem valve and reconnect to the adjacent valve	n the
<ul> <li>coperating station fails to turn on.</li> <li>cartridge for the valve or loose electrical connection to the terminal.</li> <li>1. Disconnect the wires from the cartridge of an adjacent valve. Disconnect the wires from problem valve and reconnect to the adjacent valve.</li> <li>2. Turn on electrical and water supplies to the unit. Pass your hand in front of the sensor problem station, and the adjacent station should turn on.</li> <li>If the adjacent valve fails to turn on, inspect the wires from the sensor cable and do the follow</li> <li>make sure there are no breaks and that the fully insulated disconnect terminals a crimped in place;</li> </ul>	n the
<ul> <li>the valve or loose electrical connection to the terminal.</li> <li>1. Disconnect the whes non the callinge of an adjacent valve. Disconnect the whes non the callinge of an adjacent valve. Disconnect the whes non the callinge of an adjacent valve. Disconnect the whes non the problem valve and reconnect to the adjacent valve.</li> <li>2. Turn on electrical and water supplies to the unit. Pass your hand in front of the sensor problem station, and the adjacent station should turn on.</li> <li>If the adjacent valve fails to turn on, inspect the wires from the sensor cable and do the follow</li> <li>make sure there are no breaks and that the fully insulated disconnect terminals a crimped in place;</li> </ul>	n the
connection to the terminal.       2. Turn on electrical and water supplies to the unit. Pass your hand in front of the sensor problem station, and the adjacent station should turn on.         If the adjacent station turns on and cycles normally, replace the cartridge on the problem valve fails to turn on, inspect the wires from the sensor cable and do the follow         • make sure there are no breaks and that the fully insulated disconnect terminals a crimped in place;	
If the adjacent valve fails to turn on, inspect the wires from the sensor cable and do the follow • make sure there are no breaks and that the fully insulated disconnect terminals a crimped in place;	of the
<ul> <li>make sure there are no breaks and that the fully insulated disconnect terminals a crimped in place;</li> </ul>	e.
<ul> <li>turn off the electrical and water supplies:</li> </ul>	
<ul> <li>reconnect to the adjacent valve and turn on the water supplies to the unit;</li> </ul>	
<ul> <li>pass your hand in front of the sensor. If the station still fails to turn on, replace the</li> </ul>	e senso

### **Thermostatic Mixing Valve Troubleshooting**

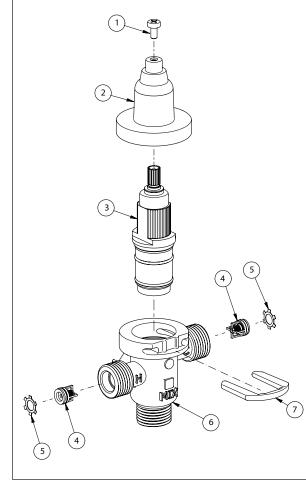
Before attempting to troubleshoot the valve or disassemble the components, check for the following conditions:

- If stop valves are used, make sure that they are fully open.
- Make sure that the hot and cold inlet pipes are connected properly, and that there are no cross-connections or leaking stop valves.
- Check the hot water heater output to make sure that it is at least 10° F above the set temperature.



Be sure to close the appropriate shut-off valves prior to disassembly of the valve and reopen the valves after inspection and repair is complete.

Problem	Cause	Solution
External leaks.	Damaged cartridge or O-rings.	Replace cartridge with part number 269-1927
Improper water temperature or	Hot water supply is not 10° above desired set point.	Increase hot water supply temperature
temperature fluctuation.	Valve temperature is not properly set.	Adjust the temperature as shown on page 7, step 5.
Limited water flow.	Dirt and debris have built up in the valve or strainer.	1. Check to make sure both hot and cold supplies are connected to the Navigator mixing valve and that they have water flow.
		2. Remove cover and U-clip. Remove the cartridge and clean the strainer. It is not required to grease cartridge, however if desired, use silicone grease only. Do not use grease on check valves.



### Parts List

Item	Part No.	Description	Quantity
nem	Part NO.	Description	S59-4000
1	160-463	Cap Screw	1
2	107-582	Cover 1	
3	269-1927	Thermostatic Cartridge 1	
4	198-014	Check Valve* 2	
5	132-051	Retaining Ring* 2	
6	118-319	Valve Body 1	
7	146-079	U-Clip 1	

\* Included with Prepack S65-326

**Tempered Line Adapter Option** Part no. S39-804 (replaces S59-4000 if tempered line is used) Strainer (173-028)

## Stop Valve Troubleshooting

Problem	Cause	Solution
Water dribbles or does not flow from the	Stop Valves may not be functioning properly.	<ol> <li>Close the stops and inspect the valves that supply water to the lavatory system.</li> </ol>
sprayhead.		<ol><li>Inspect the stop values to see that they have been properly installed.</li></ol>
Sprayhead delivers ONLY hot OR cold water.	Stop Valves may not be functioning properly.	<ol> <li>Close the stops and inspect the valves that supply water to the lavatory system.</li> </ol>
		<ol><li>Inspect the stop valves to see that they have been properly installed.</li></ol>
		<ol><li>Inspect the thermostatic mixing valve for proper installation and connection to hot and cold supplies.</li></ol>

## Cleaning and Maintenance for Terreon® (Bowl and Cover)

**Material Description:** Terreon is a densified solid surface material composed of bio based resin and is resistant to chemicals, stains, burns and impact. Surface can be easily repaired with everyday cleansers or fine grit abrasives. Because Terreon is a unique cast material, its aggregate flow and distribution, and shades of color can vary from product to product creating natural characteristics.

Routine Cleaning: For regular cleaning, use mild neutral base cleaners.

**Stubborn Stains:** Remove tough stains with Soft-Scrub<sup>®</sup> and a green Scotch-Brite<sup>®</sup> pad or lightly sand in a circular motion with 240 grit wet/dry sandpaper. The finish can then be renewed with a maroon Scotch-Brite pad.

Scratches: Remove scratches with a green Scotch-Brite pad. The finish can then be renewed with a maroon Scotch-Brite pad.

Hard Water Deposits: Remove hard water deposits with a mild solution of vinegar and water. Always rinse the unit thoroughly after cleaning.

**Restoring the surface:** Use Hope's<sup>®</sup> Perfect Countertop to refresh and protect the Terreon Solid Surface material. Dark Terreon colors may require additional care and maintenance. For complete instructions on this additional maintenance, visit bradleycorp.com.

**Repair Kits:** Terreon repair kits are available. Contact your Bradley representative or distributor for part numbers and pricing. Repair kits are made to order and have a shelf life of 30 days.

NOTICE! Do not use strong acid or alkaline chemicals and cleaners to clean Terreon. If these chemicals come in contact with the surface, wipe them off immediately and rinse with soapy water. Avoid contact with harsh chemicals such as paint remover, bleach, acetone, etc. Avoid contact with hot pans and objects.

### **Brand Names**

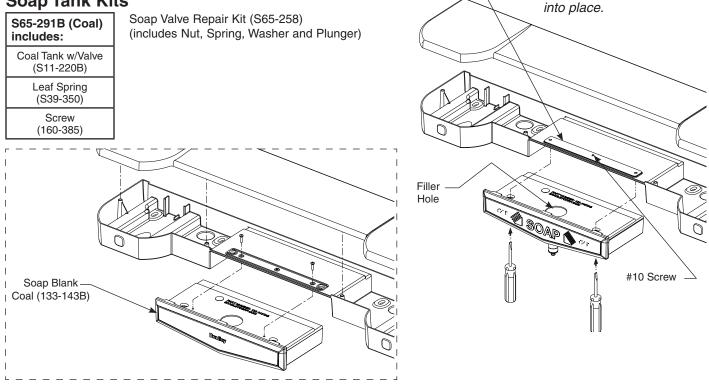
Use of brand names is intended only to indicate a type of cleaner. This does not constitute an endorsement, nor does the omission of any brand name cleaner imply inadequacy. Many products named are regional in distribution, and can be found in local supermarkets, department and hardware stores, or through your cleaning service. It is emphasized that all products should be used in strict accordance with package instructions.

when soap tank is pushed

### **Fill Soap Dispenser**

The soap valve will dispense vegetable/coconut oil liquid soaps, synthetic detergents, viscous lotion soaps, and antiseptic solutions. A 10-15% concentration is recommended for vegetable or coconut oil liquid soaps. Before filling, rinse out each soap tank with hot water to remove packing dust. Shake water out thoroughly and allow to dry. do not overFill! Leaf Spring will engage





### **Clean Soap Dispenser**

#### NOTICE! Do not use abrasive cleansers to clean the soap tank. Abrasive cleaners can damage the surface.

Regular cleaning of the soap dispenser is recommended to ensure optimum performance and maximum service life. Cleaning the soap dispenser monthly to remove soap residue, dirt, and other accumulations should become a regular part of your washroom cleaning routine and general maintenance program.

Clean exterior: Use warm water and soap to clean the exterior of the soap dispenser. Dry with a soft cloth.

Clean interior: Inspect the interior of the tank for residue or coagulation of soap. If necessary, clean the tank according to the following procedure:

- 1. Pour out any remaining soap in the tank.
- 2. Full the tank half-full of hot water and shake the tank to dislodge the soap residue.
- 3. Empty the water from the container and repeat steps 1 and 2 until the soap container is clean.



If rinsing alone does not remove the soap residue, place a small chain (24 inches long) into the tank with hot water and shake the container until the chain dislodges the residue. Then remove the chain and rinse out the tank.

Clean internal components: Pump hot water through the soap dispenser until a clean flow of water comes out of the valve.



To change soap, pour out all of the soap from the dispenser and rinse with hot water several times until all residue is removed. Pump the valve until clean water appears. Rinse the dispenser with ethyl alcohol; air dry before refilling.