

Installation

SS-1N (bowl only)

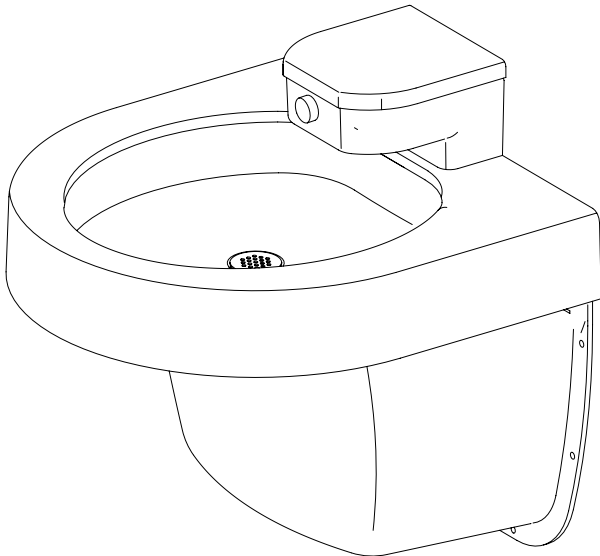
SS1N/IR

SS1N/BIR3

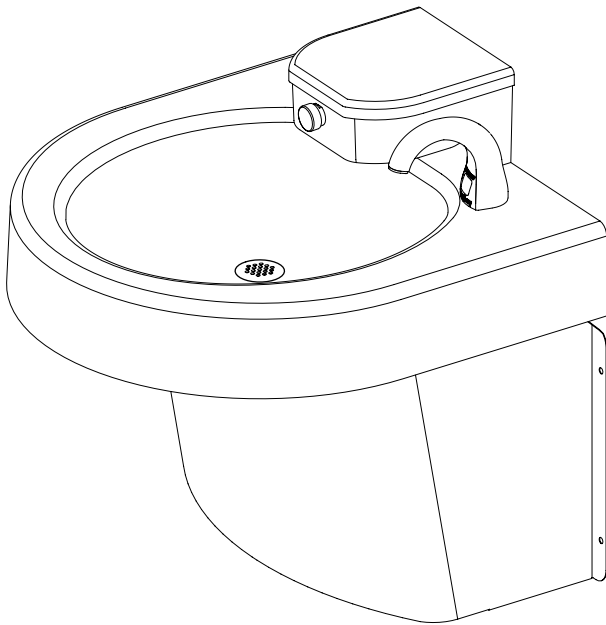
SS1N/TT

Express® Lavatory System
SS-Series

Patent Pending



SS-1N/IR Express Lavatory System
shown with optional polymer trap cover



SS-1N/TT Express Lavatory System
shown with optional stainless steel trap
cover and soap dispenser model 6315

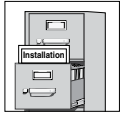
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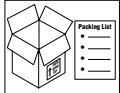


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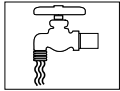
IMPORTANT!



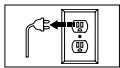
Read this entire installation manual to ensure proper installation. When finished with the installation, file this manual with the owner or maintenance department. Compliance and conformity to local codes and ordinances is the responsibility of the installers.



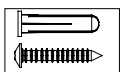
Separate parts from packaging and make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.



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.



Installer's hardware must be appropriate for wall construction. Wall anchors must have a minimum pull-out rating of 1,000 lbs.

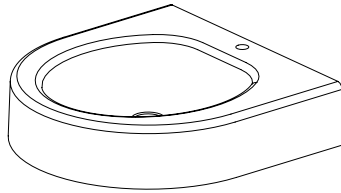


Product warranties may be found under "Products" on our Web site at bradleycorp.com.

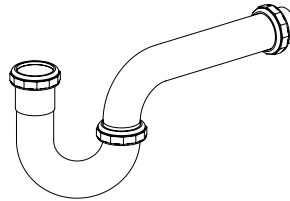
Supplies Required:

- ½" nominal copper tubing for hot and cold supplies
- 1½" NPT drain piping
- 110-volt GFCI protected electrical outlet for 110–24 VAC plug-in transformer (for SS-1N/IR and SS-1N/TT only)
- Six-volt lithium battery (for SS-1N/BIR3 only)
- Six ¼" wall anchors (used with optional surface-mounted bracket only) or in-wall carrier by others such as Josam model 17100-202 or equivalent
- Two #10 x 1½" long screws and anchors (for SS-1N/BIR3 with surface-mounted bracket only)
- OPTIONAL FOR STAINLESS STEEL OR HIGH IMPACT POLYMER TRAP COVER: #10 wall anchors, pan head fasteners and washers suitable for wall construction. (4) required for stainless steel trap. (6) required for polymer trap cover.
- OPTIONAL: 240/208-volt or 277-volt electrical hook-up for electric tankless water heater

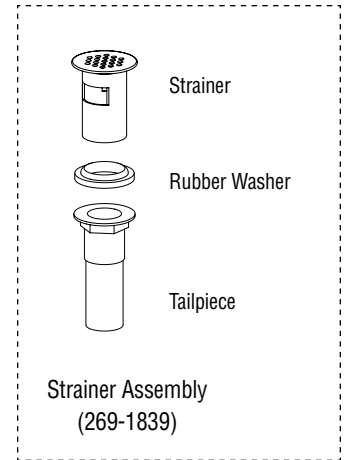
SS-1N – Components



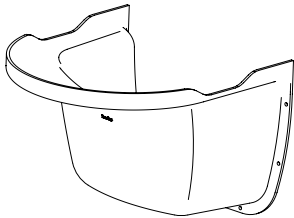
SS-1N Bowl (call your Bradley Representative for part number)



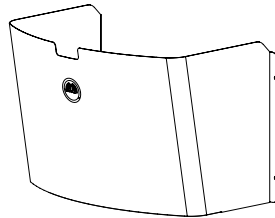
Standard PVC P-Trap (269-1697)
Optional Chrome-Plated Brass P-trap (S29-094)



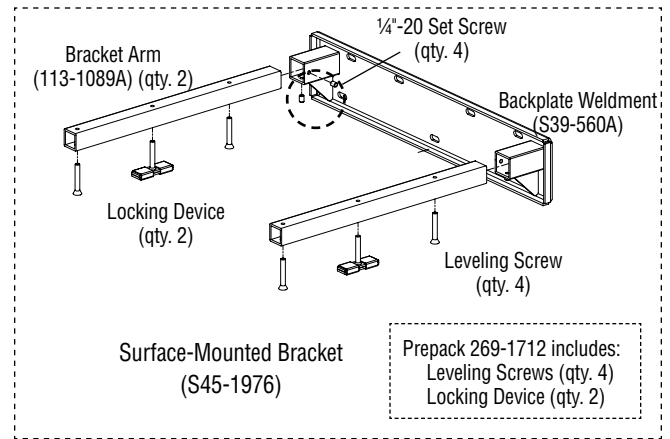
Strainer Assembly
(269-1839)



Polymer Trap Cover
Gray (186-1874)
Putty (186-1874A)
Coal (186-1874B)

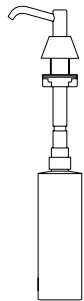


Stainless Steel trap Cover
(186-1864)

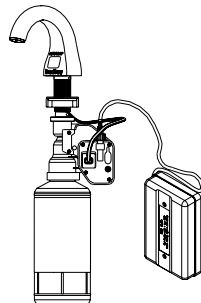


Surface-Mounted Bracket
(S45-1976)

Prepack 269-1712 includes:
Leveling Screws (qty. 4)
Locking Device (qty. 2)

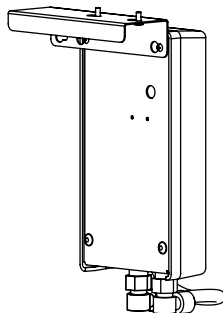


Soap Dispenser
(Model 6322)

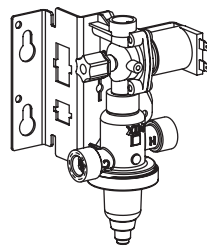


Battery Infrared Soap
Dispenser (Model 6315)

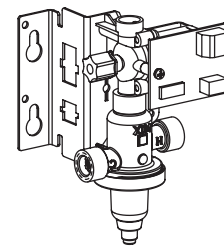
27-oz. 1000-shot Refills
Case of 4 (P19-232B)
54-oz. 2000-shot Refills
Case of 4 (P19-232A)
AC Plug-In Adapter
(P19-231F)



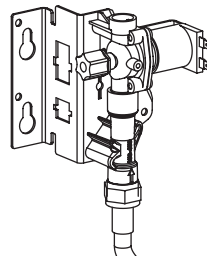
Water Heater
EX55TMLB (269-1765, 240/208 volts)
EX60TMLB (269-1766, 277 volts)



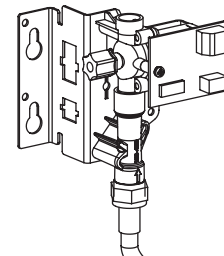
Navigator Mixing Valve for
IR Activation
(S08-1411TMA)



Navigator Mixing Valve for
BIR3 Activation
(S08-1431TMA)



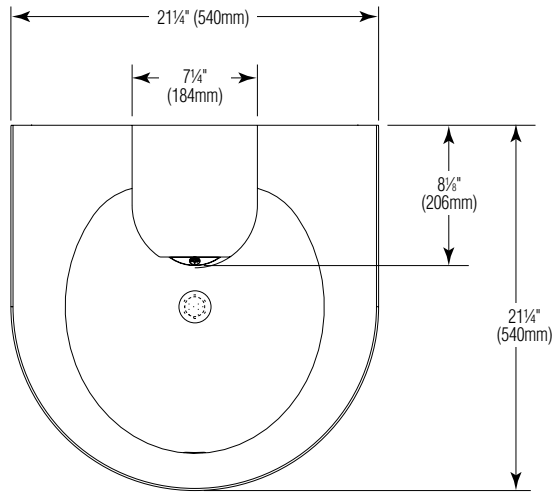
Tempered Line for IR Activation
(S08-1411TL)



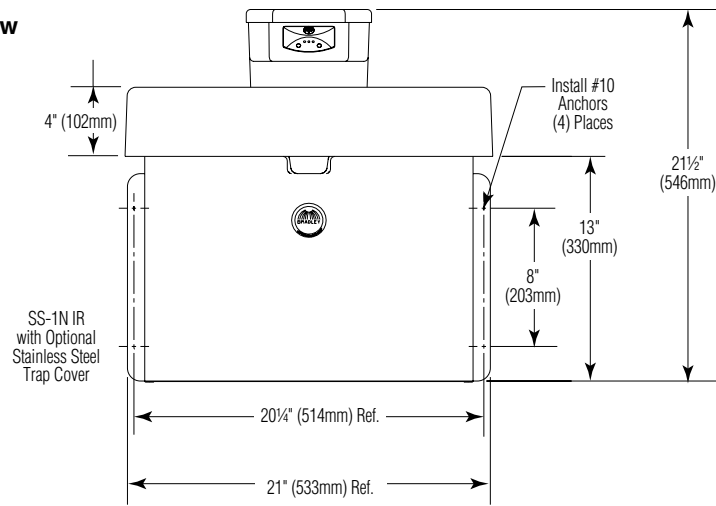
Tempered Line for BIR3 Activation
(S08-1431TL)

SS-1N – Dimensions

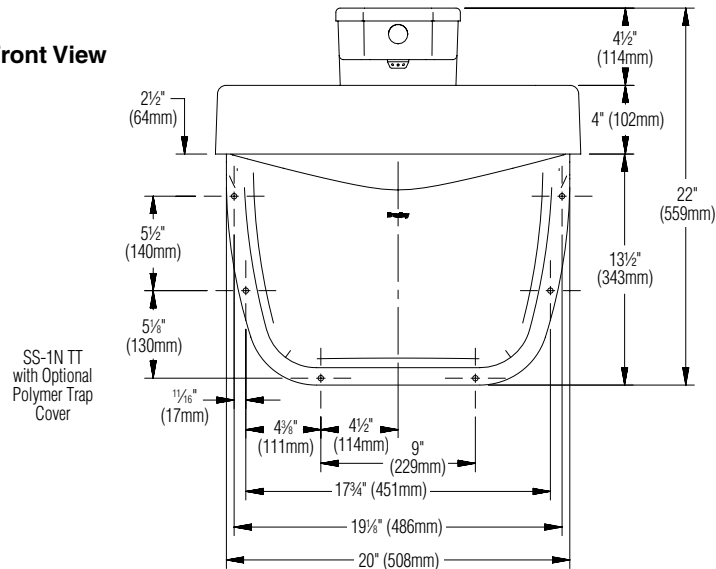
Top View



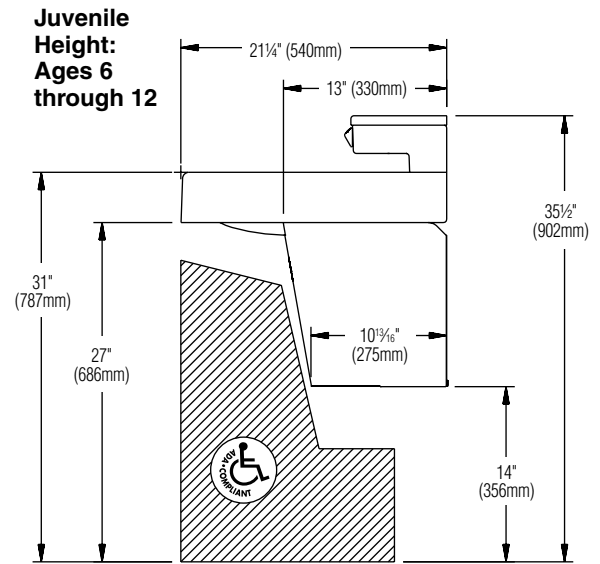
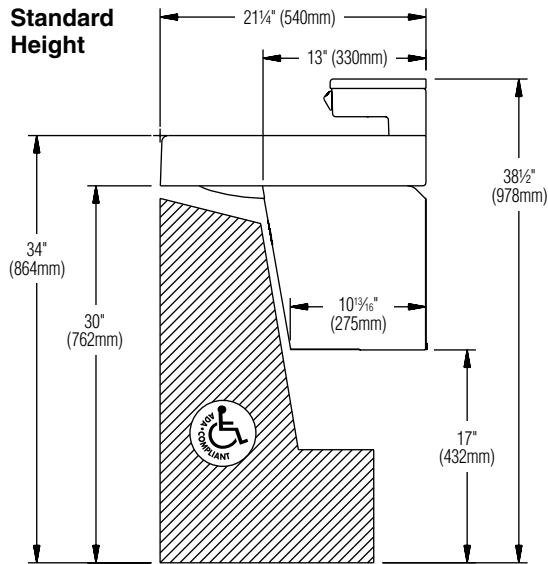
Front View



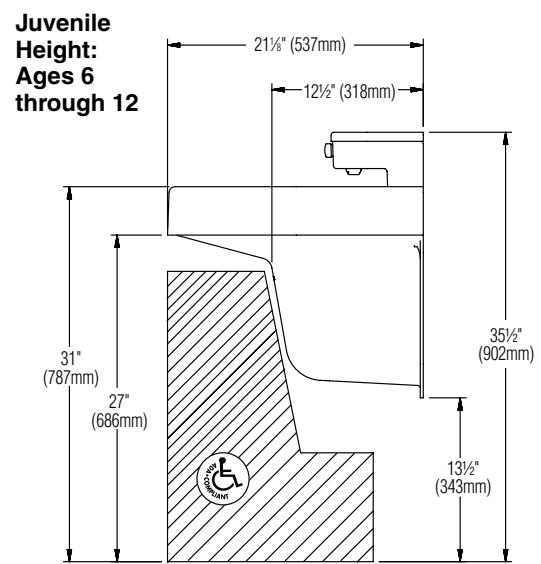
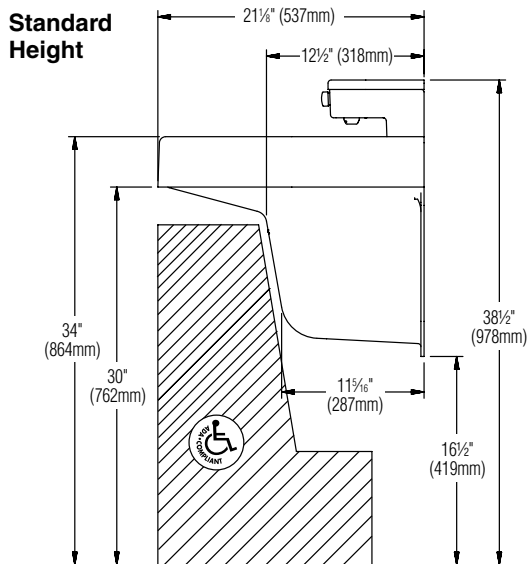
Front View



Stainless Steel Trap Cover



High Impact Polymer Trap Cover



1 Rough-In

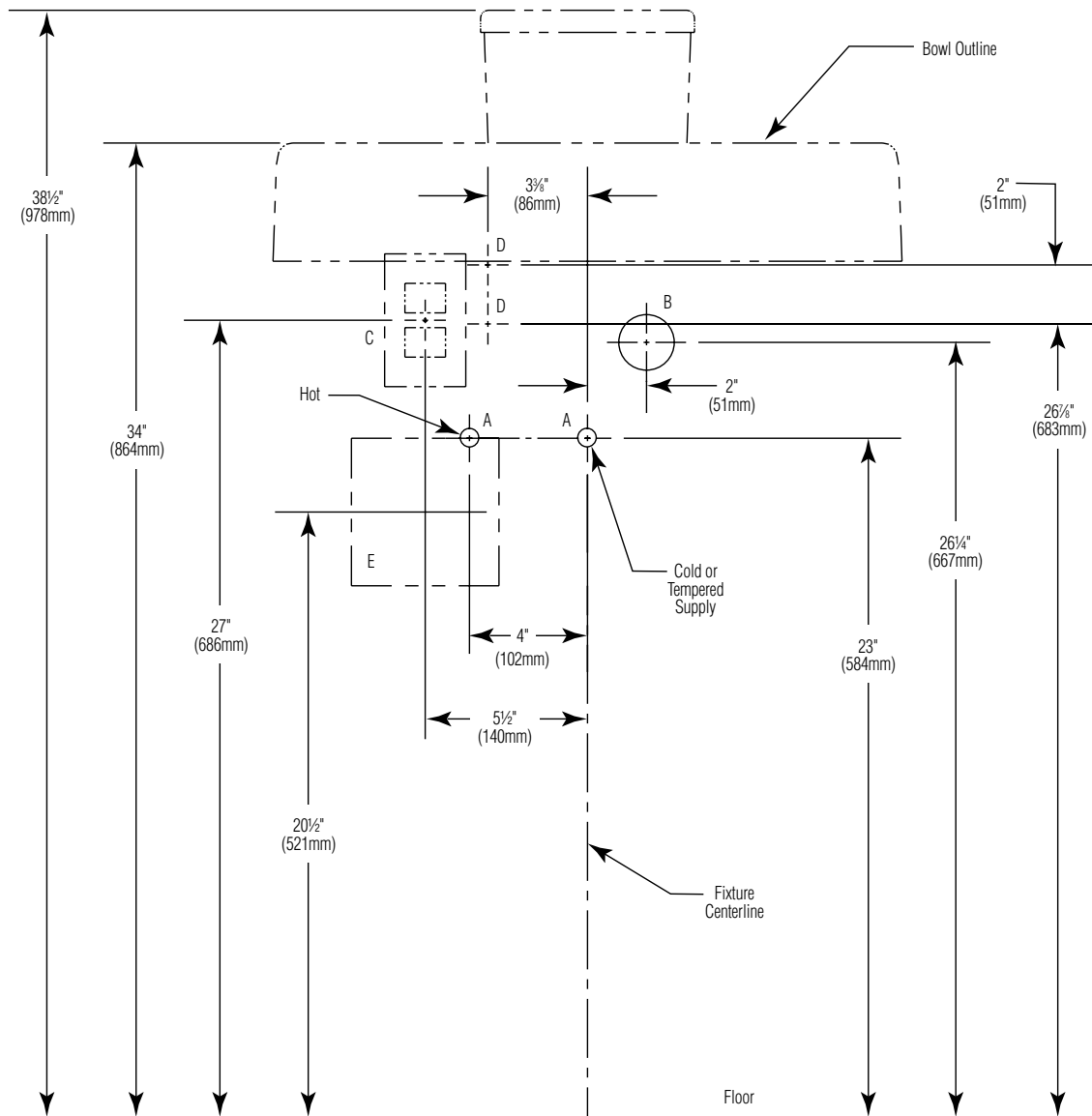


Chart 1

Rim Height	Vertical Height Adjustments A – E	Fixture Style
34"	None	Standard Height
34"	None	Wall-Hung
32"	Subtract 2"	TAS, Grades 6 through 8 or 9
31"	Subtract 3"	Juvenile Height
30"	Subtract 4"	TAS, Pre-K through Grades 5 or 6

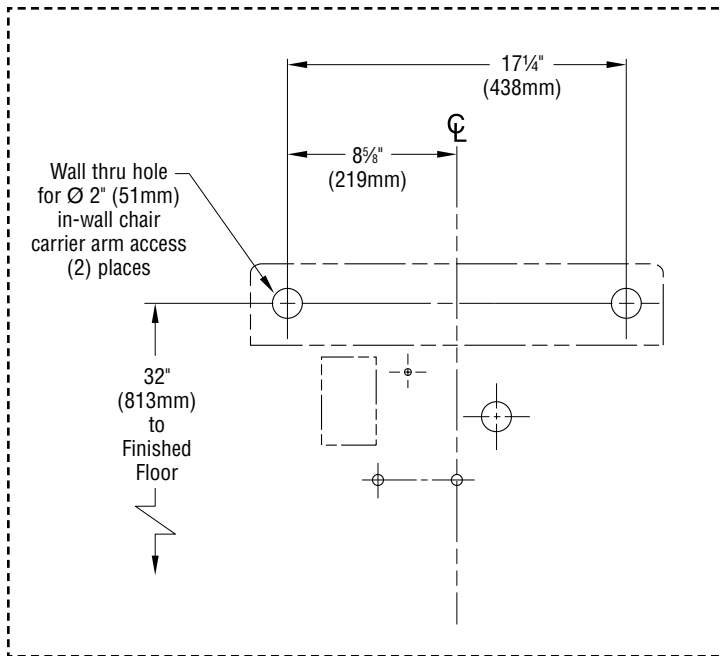
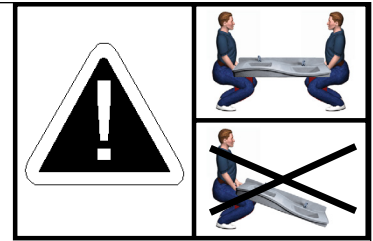
Chart 2

Code	Description	Qty.
A	1/2" Nominal Copper Tubing for Hot/Cold Supplies, Stub-Out 2" from Wall	2
B	1 1/2" NPT Drain, Stub-Out 2" from Wall	1
C	110V GFCI Protected Electrical Outlet. I.R. and TouchTime Only	1
D	#10 Fasteners/Wall Anchors, Optional	2
E	Optional Heater, Electric Box Location. 4" L x 4" W x 4" H	1

2a Bowl Mounting with In-Wall Carrier

- Before beginning bowl mounting, install an in-wall carrier (supplied by installer) to the wall following the manufacturer's instructions (ex. Josam 17100-202 or equivalent).

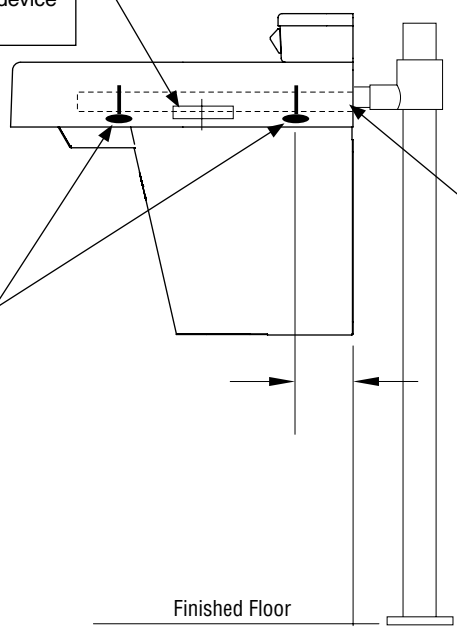
For standard height carrier mounting, do not exceed the recommended 32" distance from the floor.



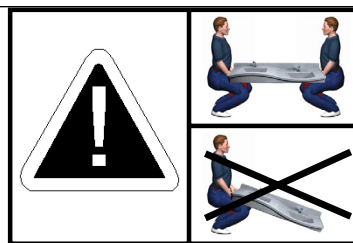
B Secure the bowl to the in-wall carrier from beneath the bowl by tightening down the locking device on each in-wall carrier arm.

C Adjust the two leveling screws from beneath the bowl on each in-wall carrier arm to level the bowl, if necessary. Refer to the in-wall carrier instructions for additional mounting information.

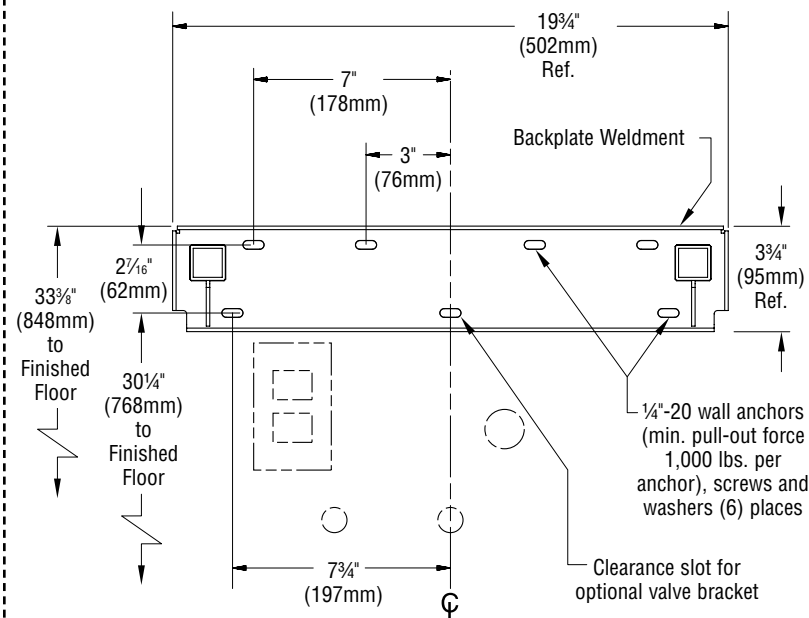
A Slide the bowl onto the in-wall carrier. The bowl should be in far enough so that the holes in the underside of the bowl pads are aligned with the screws on the in-wall carrier arm (ref. 3 1/4" dim. from wall to leveling screw).



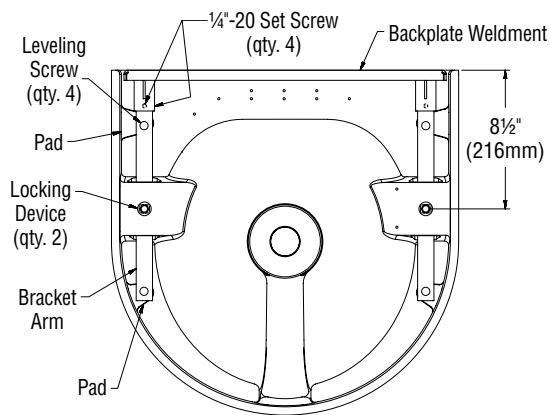
2b Bowl Mounting with Backplate Weldment



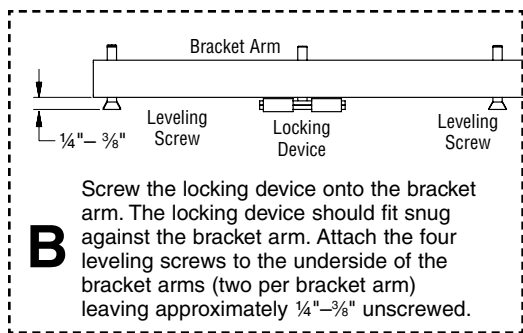
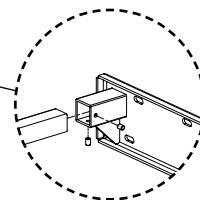
Dimensions are symmetrical about centerline.



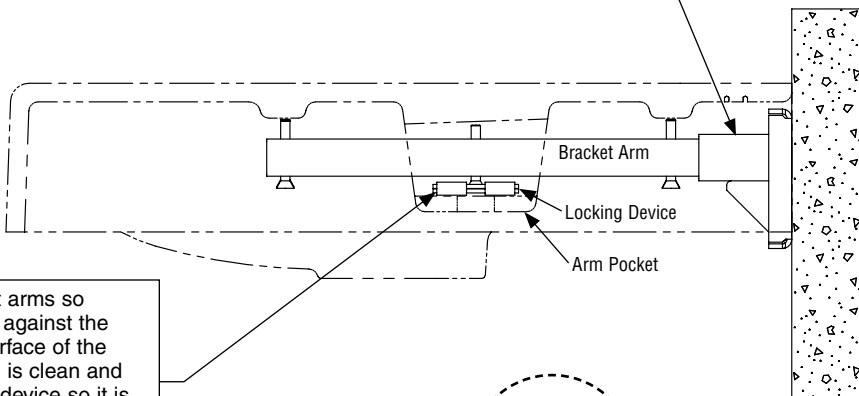
View of Underside of Bowl



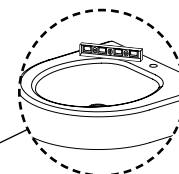
A Slide the bracket arms into the collars on the backplate weldment. The locking device on the bracket arm should be located 8 1/2" from the base of the backplate weldment. Install four 1/4"-20 set screws into the backplate collar (two set screws per collar) and tighten the set screws.



B Screw the locking device onto the bracket arm. The locking device should fit snug against the bracket arm. Attach the four leveling screws to the underside of the bracket arms (two per bracket arm) leaving approximately 1/4"-3/8" unscrewed.



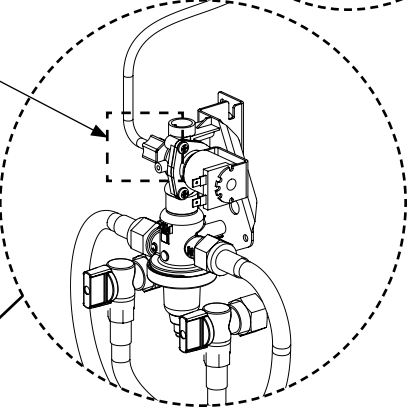
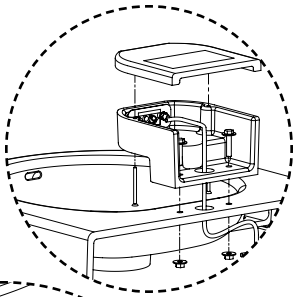
C Slide the bowl onto the bracket arms so the back of the bowl is tight up against the finished wall. Make sure the surface of the arm pocket in the Terreon bowl is clean and dust free. Unscrew the locking device so it is snug up against the arm pocket in the bowl. The locking device should be accessible from the access hole in the underside of the bowl.



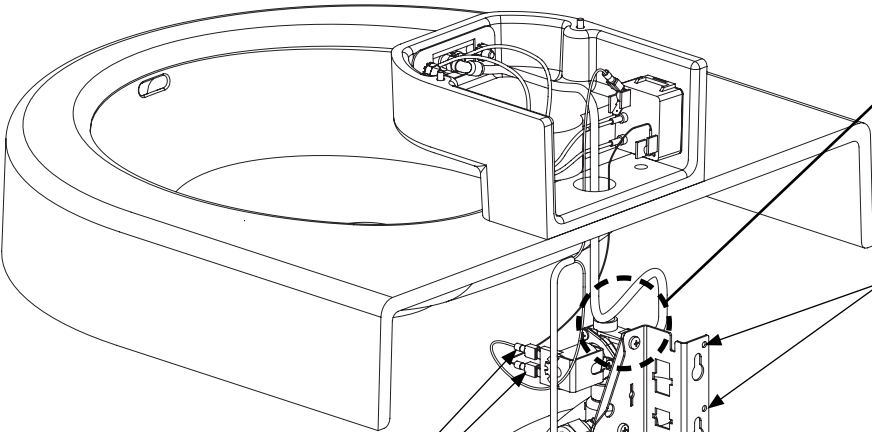
D Place a level onto the top side of the bowl and adjust the leveling screws until the bowl is level. Tighten the four leveling screws but do not overtighten. The leveling screws should come in contact with the pads underneath the bowl. Retighten the locking device.

3a Electronic Valve Installation - Adaptive Infrared Activation

C Loosen the compression nut. Push the sprayhead supply tube firmly into the tube connector until it is fully seated. Retighten the compression nut (hand-tight and then two full turns with a wrench).



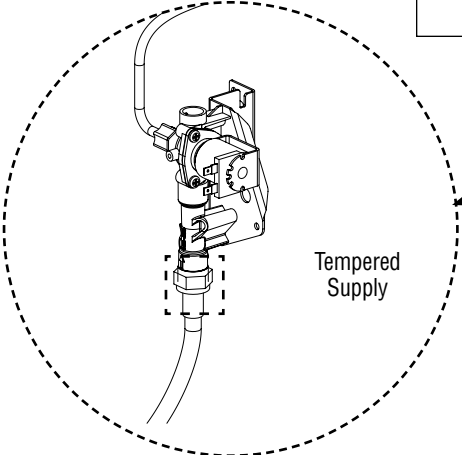
E Mount the valve bracket to the wall (using the two mounting holes on the bracket with two #10 screws and anchors provided by the installer).



A Attach the stops to the hot and cold water wall stub-outs.

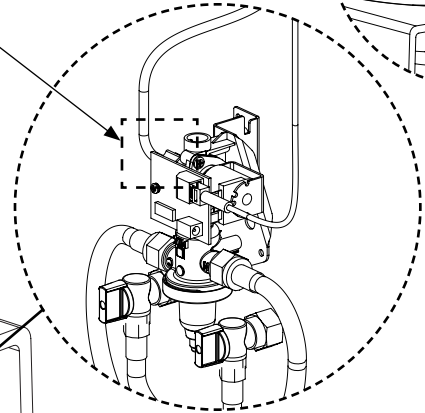
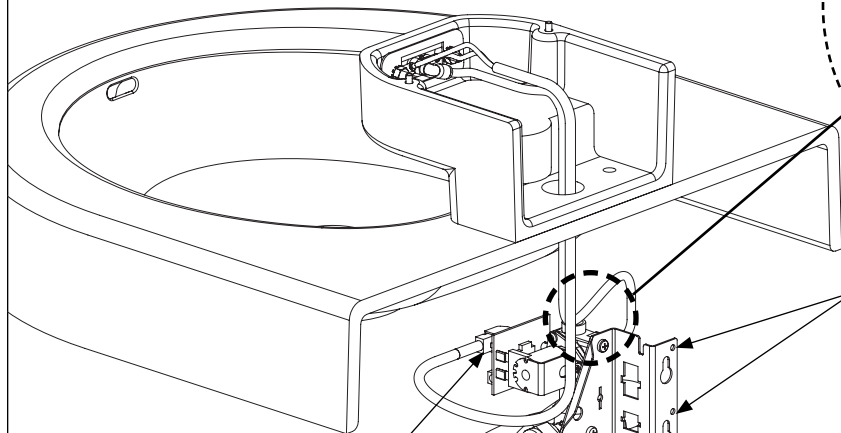
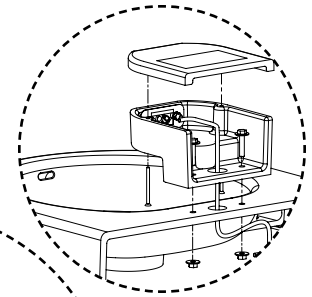
D Attach the female connector from the sprayhead sensor to the solenoid. Attach one female connector from the power cord to the solenoid. Attach the other two female connectors from the power cord to the two male connectors on the transformer.

B Attach the swivel end of the flexible hoses to the stop valves. Attach the other end of the hoses to the mixing valve, one on the hot side and one on the cold side.
Tempered supply is similar but has only one stop valve and hose.



3b Electronic Valve Installation - Battery Infrared Activation

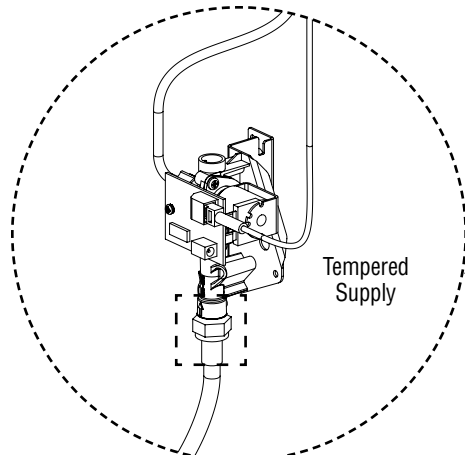
E Loosen the compression nut. Push the sprayhead supply tube firmly into the tube connector until it is fully seated. Retighten the compression nut (hand-tight and then two full turns with a wrench).



F Mount the valve bracket to the wall (using the two mounting holes on the bracket with two #10 screws and anchors provided by the installer).

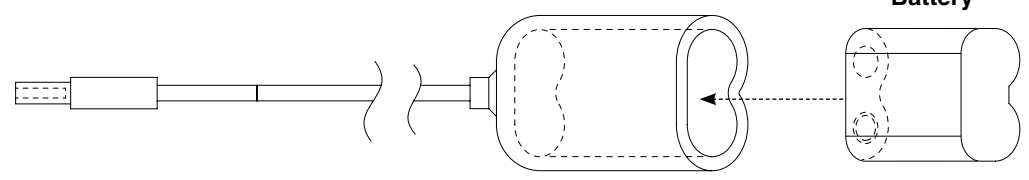
A Attach the stops to the hot and cold water wall stub-outs.

B Attach the swivel end of the flexible hoses to the stop valves. Attach the other end of the hoses to the mixing valve, one on the hot side and one on the cold side.
Tempered supply is similar but has only one stop valve and hose.



C Snap the sensor plug from the sprayhead into the valve's circuit board.

D Snap the battery cable plug into the female circuit board plug. Mount the battery holder in a convenient location using the hook-and-loop fastener provided.

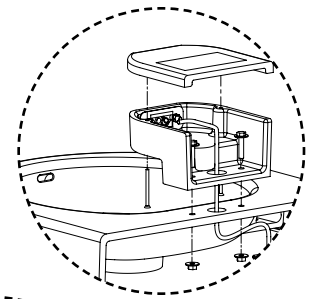


6-volt Lithium Battery

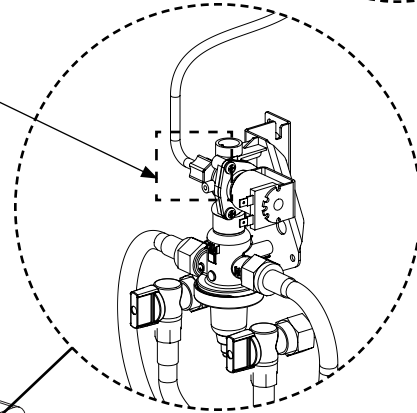
3c Electronic Valve Installation - TouchTime Activation



WARNING: The Express® control must be connected with the 24 VAC Class II transformer provided. Connections to 110 VAC can cause personal injury and will result in damage to the electronics. Connection of leads other than shown may cause permanent damage to the sensor.



C Loosen the compression nut. Push the sprayhead supply tube firmly into the tube connector until it is fully seated. Retighten the compression nut (hand-tight and then two full turns with a wrench).



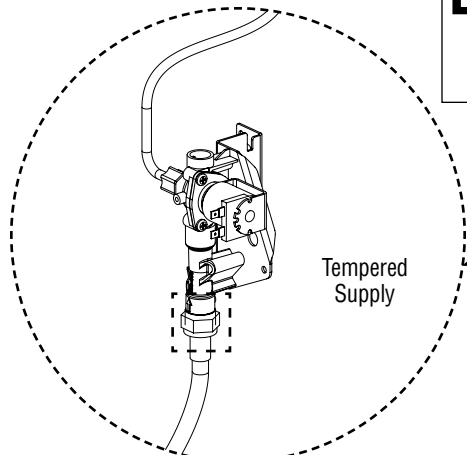
E Connect the brown and black input wires from the TouchTime button to the transformer.

F Mount the valve bracket to the wall (using the two mounting holes on the bracket with two #10 screws and anchors provided by the installer).

A Attach the stops to the hot and cold water wall stub-outs.

D Connect the green and gray output wires from the TouchTime button to the solenoid.

B Attach the swivel end of the flexible hoses to the stop valves. Attach the other end of the hoses to the mixing valve, one on the hot side and one on the cold side.
Tempered supply is similar but has only one stop valve and hose.



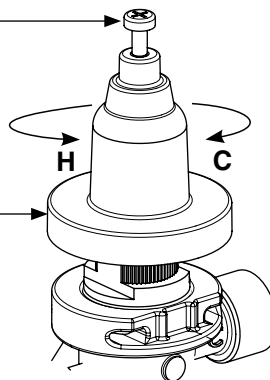
4 Adjust the Temperature



This valve is NOT factory preset. Upon installation, the temperature of this valve must be checked and adjusted to ensure delivery of a safe water temperature. Water in excess of 110°F (43°C) may cause scalding.

A Loosen the cap screw about ¼" (4–6 turns) and lift up the cover (do not remove).

B Using the cover, turn the cartridge gently until desired water temperature is reached. Do not turn past stops as this may damage the unit. Push the cover down and tighten the screw.



Turn on the water supply and check for leaks.

SS-1N/IR: Turn on the electrical power 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. **START-UP NOTE:** 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.

C **SS-1N/BIR3:** Pass your hand in front of each station's sensor until all the air is purged from the lines and water is flowing smoothly.

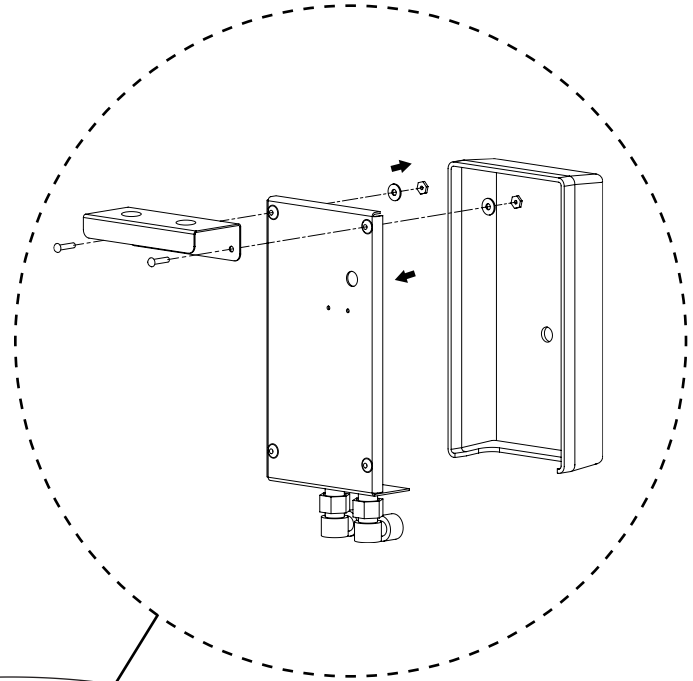
SS-1N/TT: Turn on the electrical power and trigger the TouchTime push button of each station until all air is purged from the lines and water is flowing smoothly. **START-UP NOTE:** Activation of the push button takes place only when it is released thereby preventing "hold open" activation. The timing is electronically controlled and set at 15 seconds.

Reinstall the access panel.

5 Optional Water Heater

WARNING: When installing water heater, to avoid personal injury or damage to unit, make all plumbing connections first, then follow with the electrical connections.

- Optional tankless heater is not available with BIR3 battery infrared activation or polymer trap cover.*
- 240/208 or 277 voltage is required for hot water heater. Refer to the installation manual provided with the hot water heater for further information.*

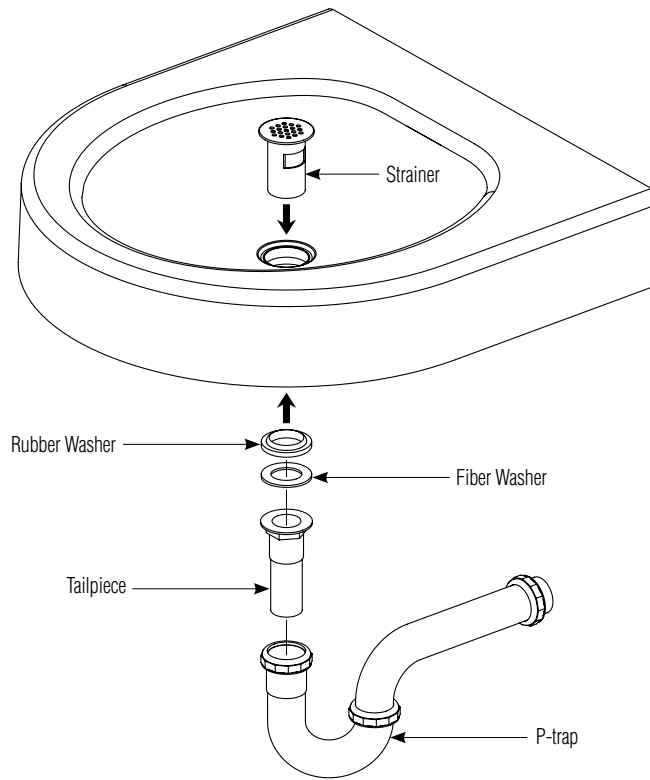


C Secure the water heater to the underside of the bowl using the two #10 screws supplied.

B Connect the ½" flexible hose (p/n 269-1735) from the hot water heater outlet to the female end of the flexible hose from the sprayhead.

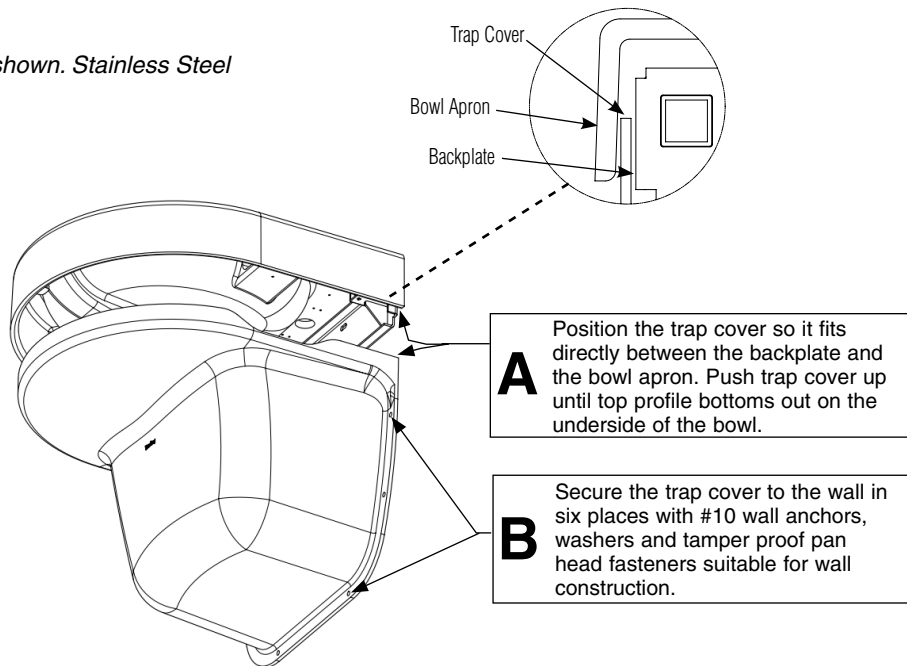
A Connect the ½" flexible hose (p/n 269-2053) from the tempered water supply stub-out to the hot water heater inlet.

6 Drain Assembly



7 Trap Cover

Polymer trap cover is shown. Stainless Steel trap cover is similar.



If in-wall carrier is used, ensure trap cover slides in-between inside of bowl apron and carrier arm. Trap cover should bottom out on the underside of the bowl.

Cleaning and Maintenance for Terreon®

Material Description: Terreon is an NAHB-certified densified solid surface material composed of polyester resin and is resistant to chemicals, stains, burns and impact. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives.

Routine Cleaning: Clean daily or as often as conditions require using a standard commercial or household cleaner such as Formula 409® or Windex®.

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

Special Situations for Terreon Material

Scratches: Remove scratches with a green Scotch-Brite pad. The finish can then be renewed with a maroon Scotch-Brite pad, followed by a white Scotch-Brite pad or 30-micron sandpaper.

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® Solid Surface cleaner and polish to refresh and protect the Terreon Solid Surface material. Bradley recommends additional care and maintenance for the darker colored Terreon. For complete instructions on this additional maintenance, visit bradleycorp.com.



Do not use strong acid or alkaline chemicals and cleansers 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.

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.



Terreon® is a unique, cast solid surface material. Aggregate flow and distribution as well as shades of color can vary from product to product creating natural characteristics.

Cleaning and Maintenance for Stainless Steel

Material Description: Stainless steel is extremely durable, and maintenance is simple and inexpensive. Proper care, particularly under corrosive conditions, is essential. Always start with the simplest solution and work your way toward the more complicated.

Routine cleaning: Daily or as often as needed use a solution of warm water and soap, detergent, or ammonia. Apply the cleaning solution per the manufacturer's instructions and always use a soft cloth or sponge to avoid damaging the finish.

Stubborn Stains: To remove stains from stainless steel use a stainless steel cleaner and polish such as Ball® stainless steel cleaner or a soft abrasive. Always follow the manufacturer's instructions and apply in the same direction as the polish lines.



Never use ordinary steel wool or steel brushes on stainless steel. Always use stainless steel wool or stainless steel brushes.

Fingerprints and Smears: To remove fingerprints or smears use a high quality stainless steel cleaner and polish in accordance with the manufacturer's instructions. Many of these products leave a protective coating that helps prevent future smears and fingerprints.

Grease and Oil: To remove grease and oil use a quality commercial detergent or caustic cleaner. Apply in accordance to the manufacturer's instructions and in the direction of the polish lines.

Precautions: Avoid prolonged contact with chlorides (bleaches, salts), bromides (sanitizing agents), thiocyanates (pesticides, photography chemicals, and some foods), and iodides on stainless steel equipment, especially if acid conditions exist.



Do not permit salty solutions to evaporate and dry on stainless steel.

The appearance of rust streaks on stainless steel leads to the belief that the stainless steel is rusting. Look for the actual source of the rust in some iron or steel particles which may be touching, but not actually a part of the stainless steel structure.

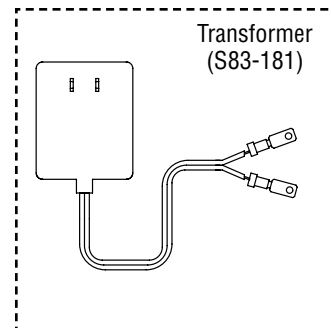
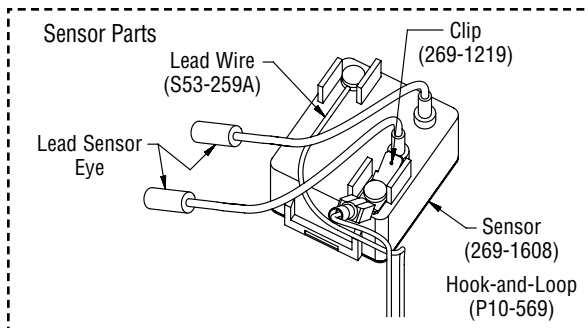
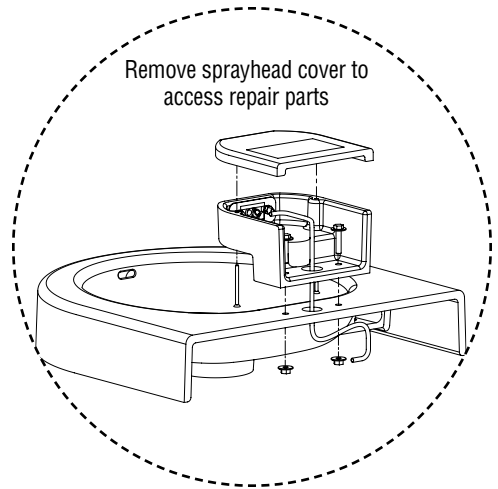
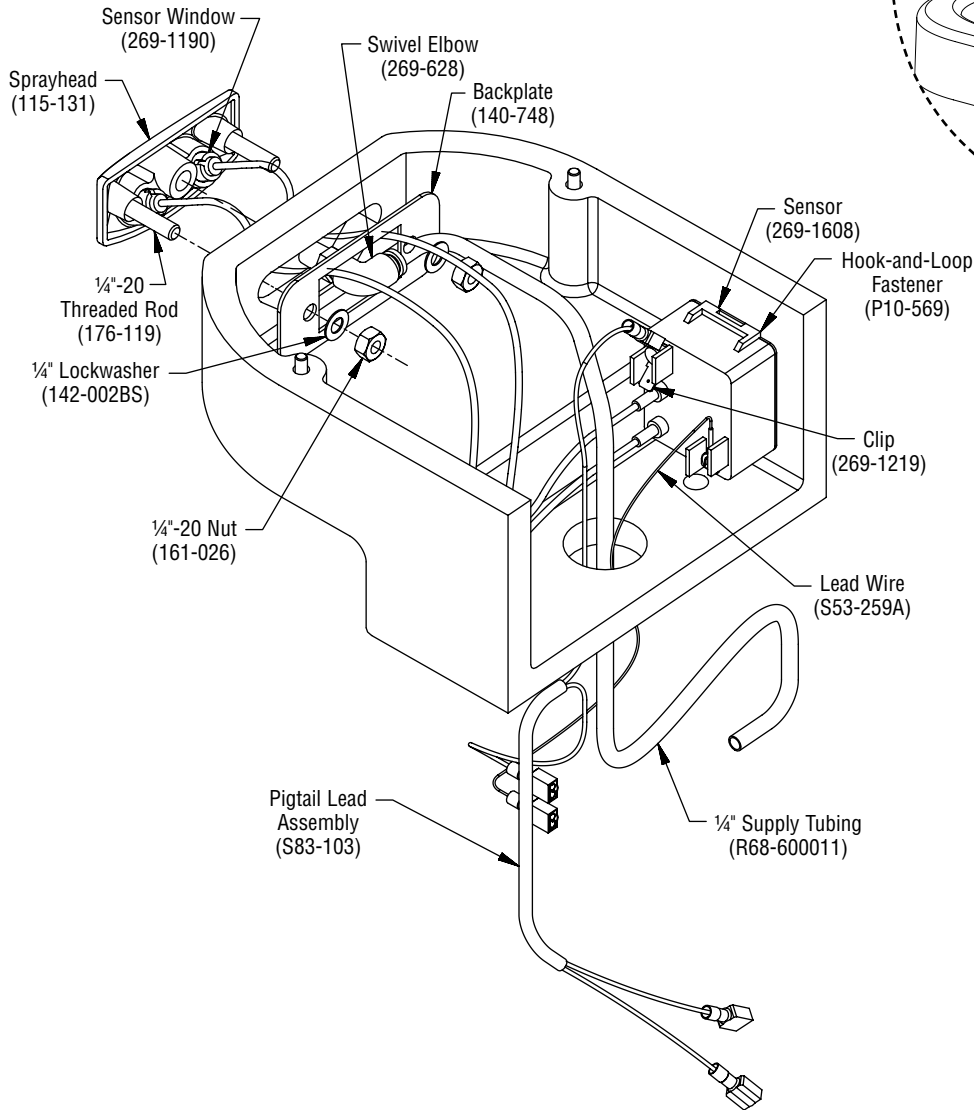


Strongly acidic or caustic cleaners may attack the steel causing a reddish film to appear. The use of these cleaners should be avoided.

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.

Adaptive Infrared Repair Parts

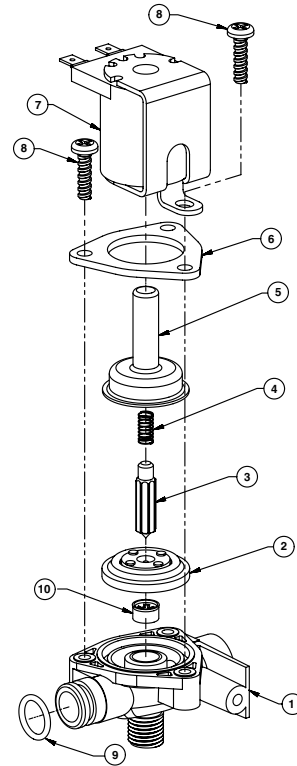


Troubleshooting – Solenoid Valve S07-068 (closed body VAC)



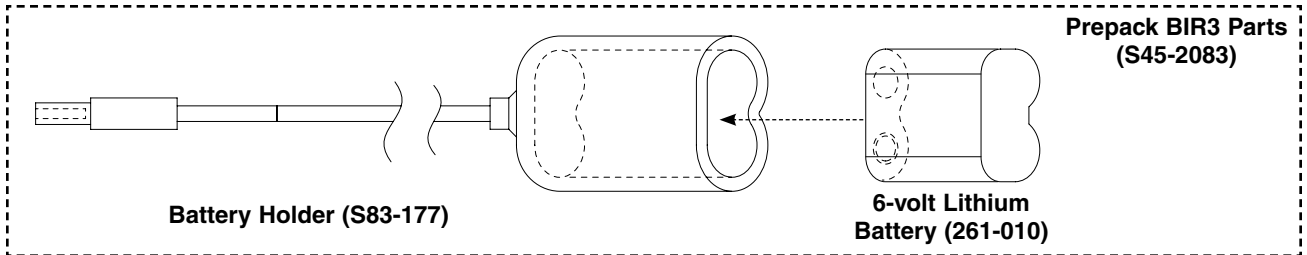
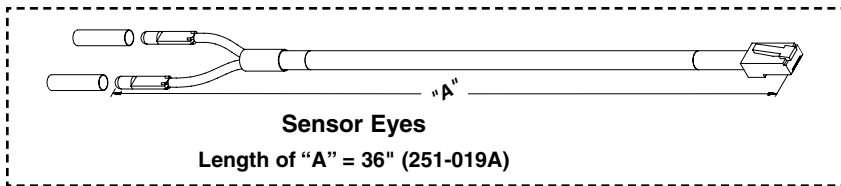
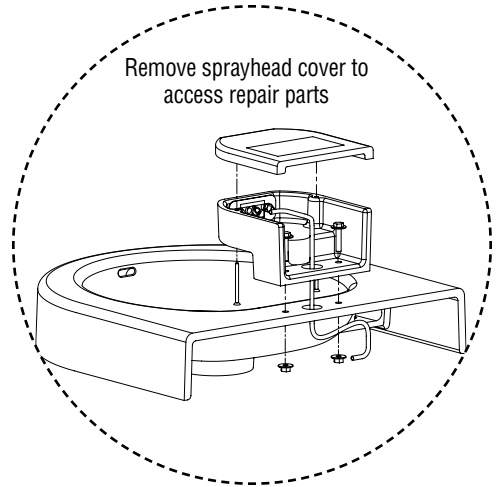
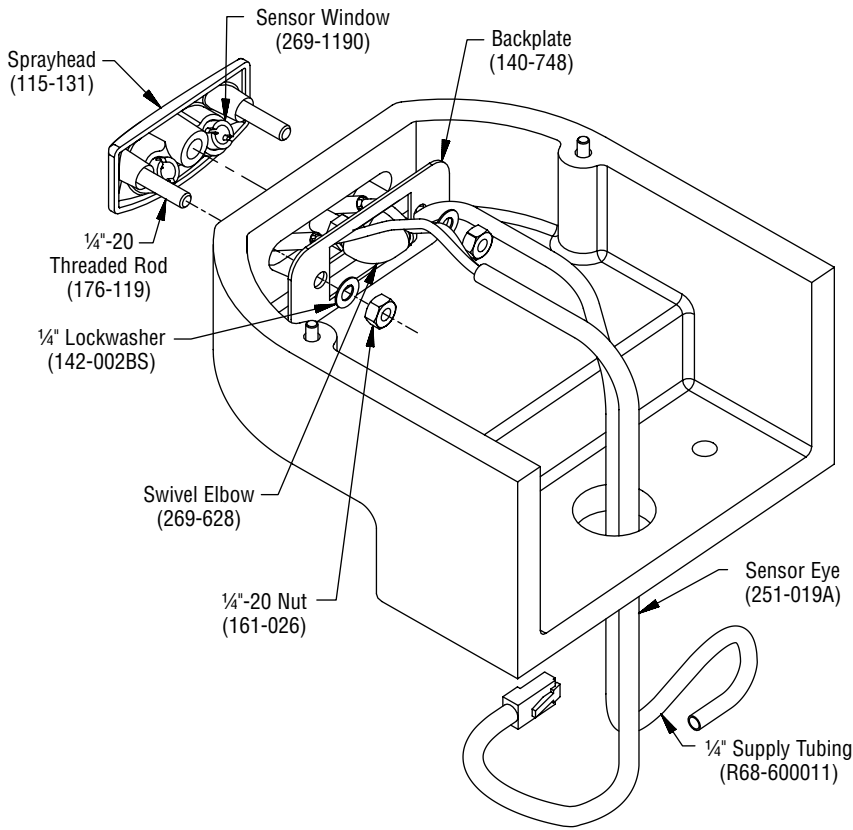
Turn off water supplies to the unit before troubleshooting.

Item	Qty.	Part No.	Description
1	1	118-307	Valve Body, ¼" Closed
2	1	269-983	Diaphragm
3	1	269-577	Armature
4	1	269-578	Spring
5	1	269-1729	Armature Housing
6	1	269-1730	Clamp, Armature Housing
7	1	269-579	Coil, Solenoid Valve
8	3	160-447	Screw, #8 x 5/8"
9	1	125-165	O-ring, #2-013
10	1	125-160	Flow Restrictor, .5GPM



Problem	Cause	Solution
An individual operating station fails to shut off and drips.	Debris is trapped between the diaphragm and the valve seat.	<p>Remove debris between diaphragm and the valve seat.</p> <ol style="list-style-type: none"> 1. Remove the three #8 Phillips-head screws that hold the solenoid valve assembly together. Be careful not to lose the armature or spring. 2. Remove the diaphragm. Remove any particles that have been trapped between the diaphragm and the valve seat. Rinse off the diaphragm and inspect for damage. Make sure the center orifice and both small side orifices are open. 3. Reassemble in reverse order (do not overtighten the Phillips-head screws or the plastic valve body may crack). Tighten until the armature plate makes contact with the plastic body. 4. Reconnect the wiring.
An individual operating station fails to turn on.	A failed coil for the valve or loose electrical connection to the terminal.	<p>Test the station to determine the cause.</p> <ol style="list-style-type: none"> 1. Disconnect the wires from the coil of an adjacent valve. Disconnect the wires from the problem valve and reconnect to the adjacent valve. 2. Turn on electrical and water supplies to the unit. Pass your hand in front of the sensor of the problem station, and the adjacent station should turn on. <p>If the adjacent station turns on and cycles normally, replace the coil on the problem valve.</p> <p>If the adjacent valve fails to turn on, inspect the wires from the sensor cable and do the following:</p> <ul style="list-style-type: none"> • make sure there are no breaks and that the fully insulated disconnect terminals are firmly crimped in place; • turn off the electrical and water supplies; • reconnect to the adjacent valve and turn on the water supplies to the unit; • pass your hand in front of the sensor. If the station still fails to turn on, replace the sensor.

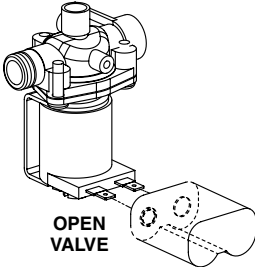
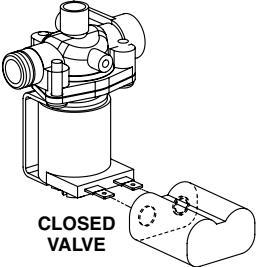
Battery Infrared Repair Parts



Troubleshooting – BIR3 Components



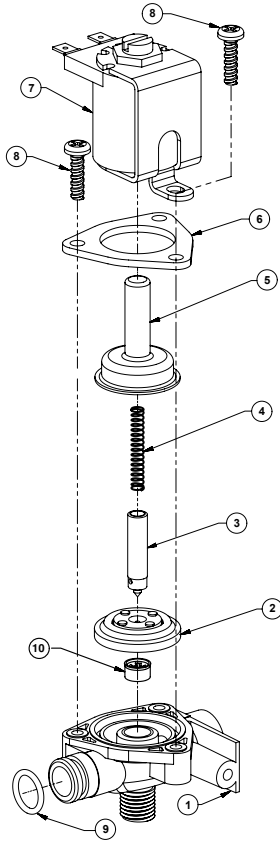
Turn off water supplies to the unit before troubleshooting.

Problem	Cause	Solution
An individual operating station fails to shut off and drips.	Debris is trapped between the diaphragm and the valve seat.	<p>Remove debris between diaphragm and the valve seat.</p> <ol style="list-style-type: none"> 1. Disconnect the plug from the battery to the circuit board of the problem valve. 2. Remove the three #8 Phillips-head screws that hold the solenoid valve assembly together. Be careful not to lose the armature or spring. 3. Remove the diaphragm. Remove any particles that have been trapped between the diaphragm and the valve seat. Rinse off the diaphragm and inspect for damage. Make sure the center orifice and both small side orifices are open. 4. Reassemble in reverse order (do not overtighten the Phillips-head screws or the plastic valve body may crack). Tighten until the armature plate makes contact with the plastic body. 5. Reconnect the battery plug. Turn on water supplies to the unit.
An individual operating station fails to turn on or off.	A dead or faulty battery.	<p>Test the station to determine the cause and replace battery if required.</p> <ol style="list-style-type: none"> 1. Disconnect the sensor cable from the circuit board of the problem valve. Disconnect the sensor cable from the circuit board of an adjacent working valve. 2. Connect the battery plug from the adjacent working valve to the problem valve. Wait for ten seconds. Activate the problem station's sensor ten times. The station should turn on. <p>If the adjacent station turns on, and cycles normally, replace the battery.</p>
	Faulty sensor eyes.	<p>Test the station to determine the cause and replace sensor eyes if required.</p> <ol style="list-style-type: none"> 1. Disconnect the plug from the battery to the circuit board of the problem valve. Disconnect the plug from the battery to the circuit board of an adjacent valve. 2. Connect the sensor cable from the adjacent working valve to the problem valve. Activate the problem station's sensor. The station should turn on. <p>If the adjacent station turns on, and cycles normally, replace the sensor eyes.</p>
 <p>OPEN VALVE</p>  <p>CLOSED VALVE</p>	Faulty solenoid valve.	<p>Test the station to determine the cause and replace solenoid valve if required.</p> <ol style="list-style-type: none"> 1. Remove the screw, circuit board and standoff from the problem valve. Remove the battery holder. 2. With a good working battery, briefly contact the solenoid valve directly with the battery. The contact should cause the valve to open. With the battery holder removed, briefly contact the solenoid valve with the battery in the position shown. This should cause the valve to close. If the valve does not operate when directly contacted with a good battery, and the solenoid valve has already been cleaned as outlined at the beginning of this troubleshooting section, replace the solenoid valve. <p>If problems persist:</p> <p>Pass your hand in front of the problem station, while at the same time looking to see if the indicator light on the circuit board flashes (the indicator light is located near the hole in the circuit board where the standoff is mounted). If it does not flash, and the battery and sensor eyes have already been tested as outlined above, the problem may be with the circuit board. Make a note of the numbers printed on the circuit board, then contact your Bradley representative for assistance.</p>

Solenoid Valve S07-073 (closed body BIR3)



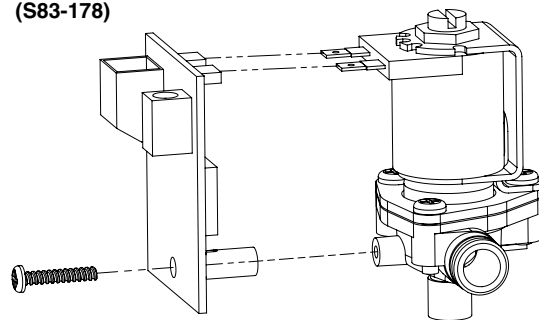
Turn off water supplies to the unit before troubleshooting.



Item	Qty.	Part No.	Description
1	1	118-307	Valve Body, ¼" Closed
2	1	269-983	Diaphragm
3	1	192-017	Armature
4	1	135-093	Spring
5	1	269-1729	Armature Housing
6	1	269-1730	Clamp, Armature Housing
7	1	269-1731	Coil, Solenoid Valve
8	3	160-447	Screw, #8 x 5/8"
9	1	125-165	O-ring, #2-013
10	1	125-160	Flow Restrictor, .5 GPM

**Solenoid Valve with Circuit Board
Closed Body (S07-083)**

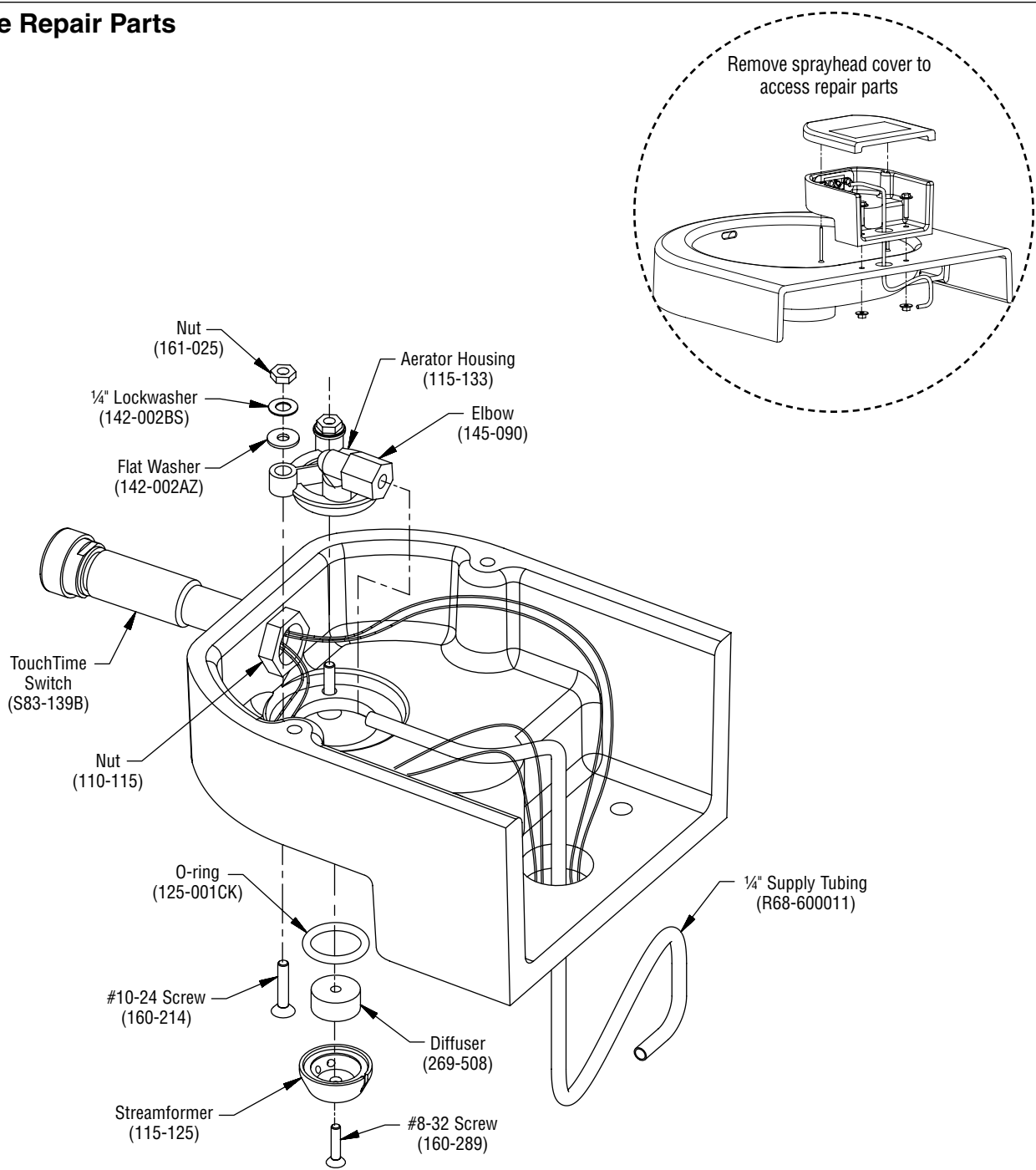
**Circuit Board with Standoff
(S83-178)**



**Pan-head Screw 6-19 x 3/4"
(160-451)**

**Valve Assembly
Closed Body (S07-073)**

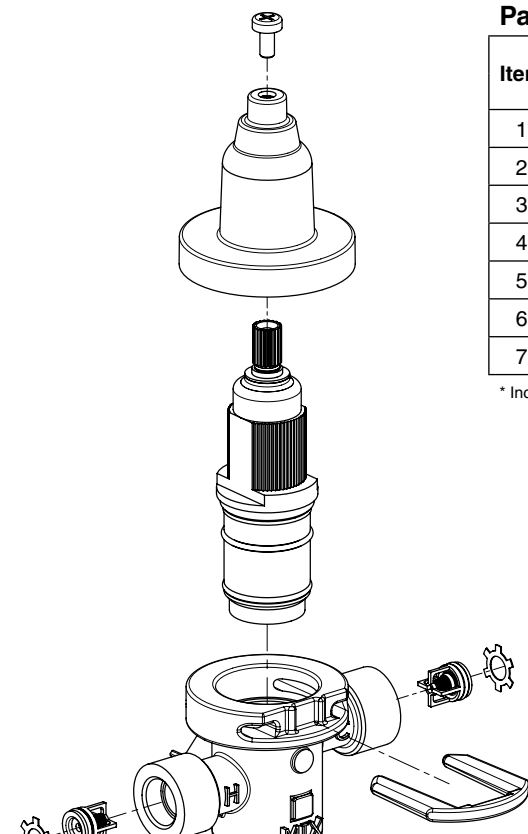
TouchTime Repair Parts



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 temperature fluctuation.	Hot water supply is not 10° above desired set point.	Increase hot water supply temperature
	Valve temperature is not properly set.	Adjust the temperature as shown on page 13, step 4.
Limited water flow.	Dirt and debris have built up in the valve or strainer.	<p>1. Check to make sure both hot and cold supplies are connected to the Navigator mixing valve and that they have water flow.</p> <p>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.</p>



Parts List

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

* Included with Prepack S65-326

Tempered Line Adapter Option Part no. S39-804

(replaces S59-4000 if tempered line is used)

