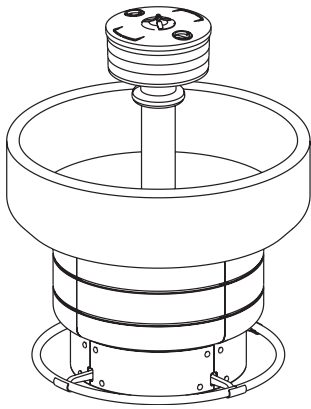
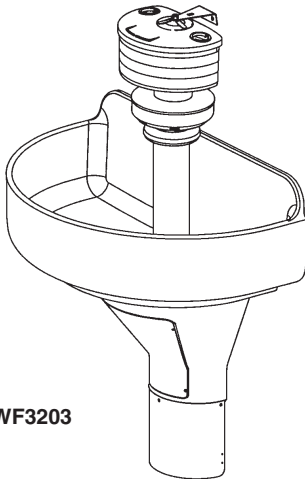


# Installation

WF2605



WF3203



**WF2500 Series Terreon Classic**

**WF2600 Series Terrazzo**

**WF2700 Series Stainless Steel**

**WF2800 Series Bradstone**

**WF3200 Series Terreon Deep Bowl**

**TDB3100 Series Terreon Deep Bowl**



**Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance and troubleshooting information.**

For questions regarding the operation, installation or maintenance of this product, visit [bradleycorp.com](http://bradleycorp.com) or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under "Products" on our website at [bradleycorp.com](http://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.





## **Safety Information**

### **Installation**

Turn OFF electrical supply to the unit before installation.

Compliance and conformity to drain requirements and other local codes and ordinances is the responsibility of the installer.

Proper installation in compliance with industry and government standards for metering faucets requires the following:

1. Adjust volume control until water spray strikes bottom of bowl, 4-inches in from the rim.
2. Air valve metering timing is factory pre-set.

Failure to follow these instructions may negatively affect energy and water use efficiency.

### **Product/Property Damage**

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



## Cleaning and Maintenance WF2500, WF2600, WF2700, WF2800, WF3200, TDB3100 Series

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### Cleaning and Maintenance for Terreon®

**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® and a green Scotch-Brite® 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® 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.

### 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.

**NOTICE!** 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.

**NOTICE!** 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.

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



## Cleaning and Maintenance WF2500, WF2600, WF2700, WF2800, WF3200, TDB3100 Series

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### Cleaning and Maintenance for Terrazzo

**Material Description:** Terrazzo is a mosaic-looking natural stone and concrete material polished to a high gloss and sealed with clear polyurethane resin for long lasting beauty. Terrazzo is precast and composed of 85% stone and 15% binder with steel reinforcing rods cast into the bowl.

**Routine Cleaning:** Clean daily or as often as conditions require with any standard detergent, warm water and a soft cloth.

**Stubborn Stains:** If stains have permeated the surface of the terrazzo, follow instructions for restoring the surface listed below.

**Restoring the surface:** Use paint stripper to remove the existing polyurethane (it is important to remove all of the old polyurethane to ensure a high quality finish). Then use light grit sand paper to remove any stubborn stains that have permeated the surface. Clean and thoroughly dry the bowl. Then apply 2 to 3 coats of polyurethane to the terrazzo in accordance with the manufacturer's instructions. Allow the polyurethane to dry completely per the manufacturer's recommendations before turning on the water.

**NOTICE!** If the bowl is not completely dry before applying the polyurethane, the polyurethane will not adhere to the surface.

**NOTICE!** Make sure the surface is completely covered with polyurethane to prevent water from penetrating the surface and damaging the terrazzo.

**Repair Kits:** Terrazzo repair kits are available. Contact your Bradley representative or distributor for part numbers and pricing.

**NOTICE!** Do not place acid or alkaline solutions (floor stripper or drain cleaners) into the terrazzo bowl or use them to clean the bowl. If these solutions come into contact with the terrazzo, rinse the bowl immediately with water and inspect for damage. If damage has occurred, follow the directions for restoring the surface. If bowl begins to haze, it is usually a sign that the terrazzo has come into contact with an acid or alkaline chemical or has been exposed to UV radiation. To repair this condition, follow the instructions for restoring the surface.

### Cleaning and Maintenance for Bradstone

**Material Description:** Bradstone is an extremely durable plastic material made of reinforced thermosetting polyester resins, finely ground inorganic fillers and fade resistant pigments. Bradstone is impervious to most chemicals and stains.

**Routine Cleaning:** Soap and dirt accumulations should be washed off with detergent cleaners. Abrasive and caustic cleaners are not recommended. An occasional waxing with automotive wax will make future cleaning even easier.

### 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.



## Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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*This document describes installation of washfountain bowl and pedestal only. Terreon Classic and Bradstone washfountains are shipped partially pre-assembled. Some optional equipment and accessories are shown for clarity. For activation, optional equipment and accessory installation, see installation documents included with those parts.*



*Before installation of bowl and pedestal assemblies, review all included instructions. Some options may require additional steps during the bowl and pedestal installation process.*

### Supplies Required by Installer

- (6) 1/2" lag bolts, screws or other fasteners to anchor washfountain pedestal
- 1" hot and cold water or tempered supply lines and fittings (see activation instructions)
- Reducing fittings and 1/2" nom. copper tubing supply lines for types with supplies from above (see activation instructions)
- Standard P-trap (vented trap supplied by Bradley when required)
- 2" drain lines and fittings (see activation instructions)
- 1-1/2" vent pipe on types vented through washfountain column
- Pipe sealant and plumber's putty



*Supply lines for one or two washfountains should be 1"; for three washfountains 1-1/4"; for more than three washfountains, pipe size should increase proportionally. Vent pipe to be 1-1/2" on models vented through washfountain.*



*Valving installations for Classic washfountains require rigid plumbing installation and connections to ensure proper operation and support of the valve assemblies, especially for foot control activated washfountains. Do not use flexible supply hoses unless specified in your activation instruction documentation and supplied with your washfountain.*

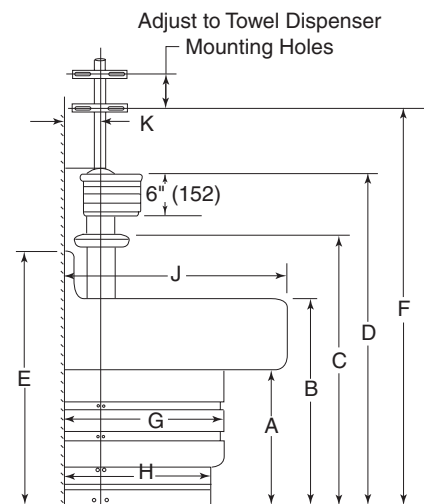


# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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## Semi-Circular Washfountain Dimensions

(mm)



**Approximate Dimensions in Inches\***

Material	Size	A	B	C	D	E	F	G	H	J	K
Terreon	54"	19	29-1/2	38-3/4	47-1/4	36-1/2	55-3/4	23-1/2	21-1/4	32-1/4	5-1/4
Terreon	36"	19	29-1/2	35-1/4	43-1/4	33-3/8	52-1/4	17-1/4	15-1/4	22-3/4	4-3/4
Bradstone	54"	19-3/4	29-1/4	37-1/2	46	35-1/4	54-3/8	26-1/4	24-1/4	35-1/4	8-1/4
Bradstone	36"	19-3/4	29-1/4	34	42-1/2	35-1/4	50-7/8	20-1/4	18-1/4	25-3/4	7-3/4

\* Subtract 4" from dimensions A through E for juvenile height. Bradstone not available in juvenile height.

**Approximate Dimensions in Millimeters\***

Material	Size	A	B	C	D	E	F	G	H	J	K
Terreon	1372mm	483	749	984	1200	927	1416	597	540	819	133
Terreon	914mm	483	749	895	1099	848	1327	438	387	578	121
Bradstone	1372mm	502	743	953	1168	895	1381	667	616	895	210
Bradstone	914mm	502	743	864	1080	895	1292	514	464	654	197

\* Subtract 102mm from dimensions A through E for juvenile height. Bradstone not available in juvenile height.



## Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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### Length of Tie Pipe Required for Vent Through Washfountain Column

Type	Pipe Length
54" Less Soap Dispenser	21-1/2" (543mm)
36" Less Soap Dispenser	18" (457mm)
54" with Soap Dispenser	30" (762mm)
36" with Soap Dispenser	26-1/2" (673)
54" Less Soap Dispenser with Towel Dispenser	55-1/2" (1410mm)
36" Less Soap Dispenser with Towel Dispenser	52" (1321mm)
54" with Soap Dispenser with Towel Dispenser	48" (1213mm)
36" with Soap Dispenser with Towel Dispenser	44-1/2" (1130mm)
54" with Cube Adapter	32" (813mm)
36" with Cube Adapter	28-1/2" (724mm)
54" with Cube Adapter with Towel Dispenser	50" (1270mm)
36" with Cube Adapter with Towel Dispenser	46-1/2" (1181mm)
54" with Cube Adapter and Soap Dispenser	40" (1016mm)
36" with Cube Adapter and Soap Dispenser	36-1/2" (927mm)



*Drain must be connected with 2" schedule 40 welded wrought iron pipe, minimum, to provide lower support for this installation. Vent or support pipe must be of the same material in 1-1/2". For detailed tie pipe information, see 215-1834-26.*



# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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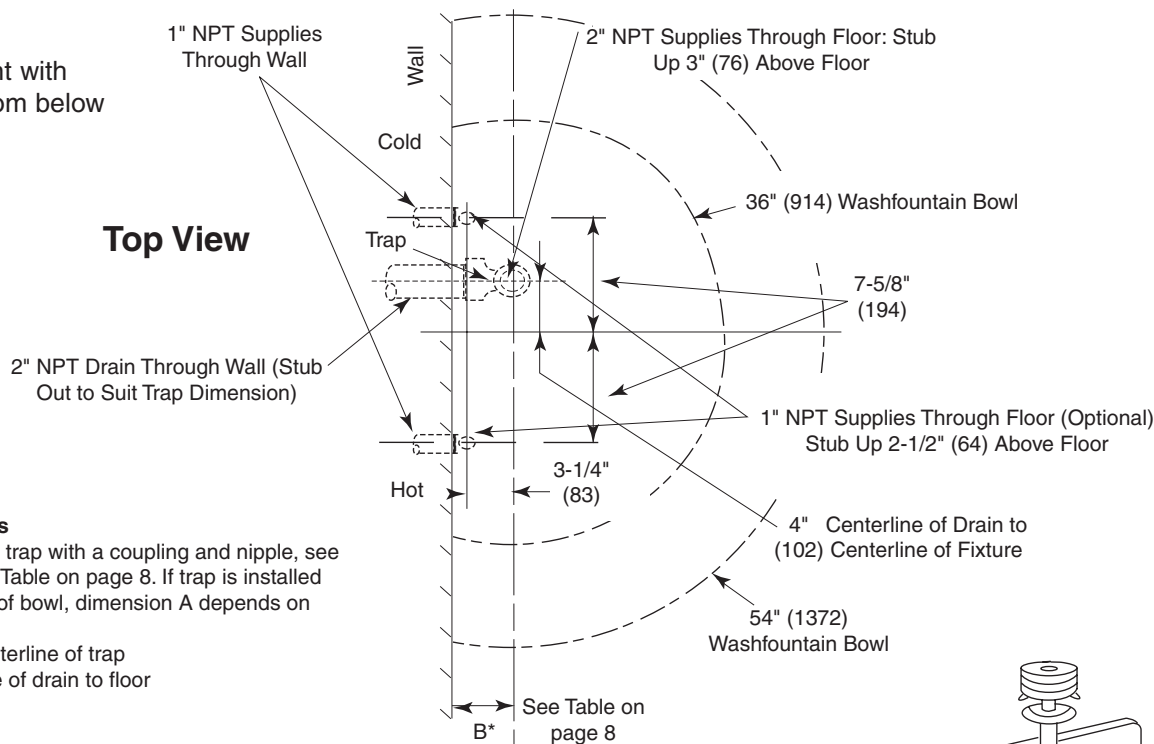
## Rough-In Specifications

(mm)

### Type A

Off-line vent with  
supplies from below

#### Top View



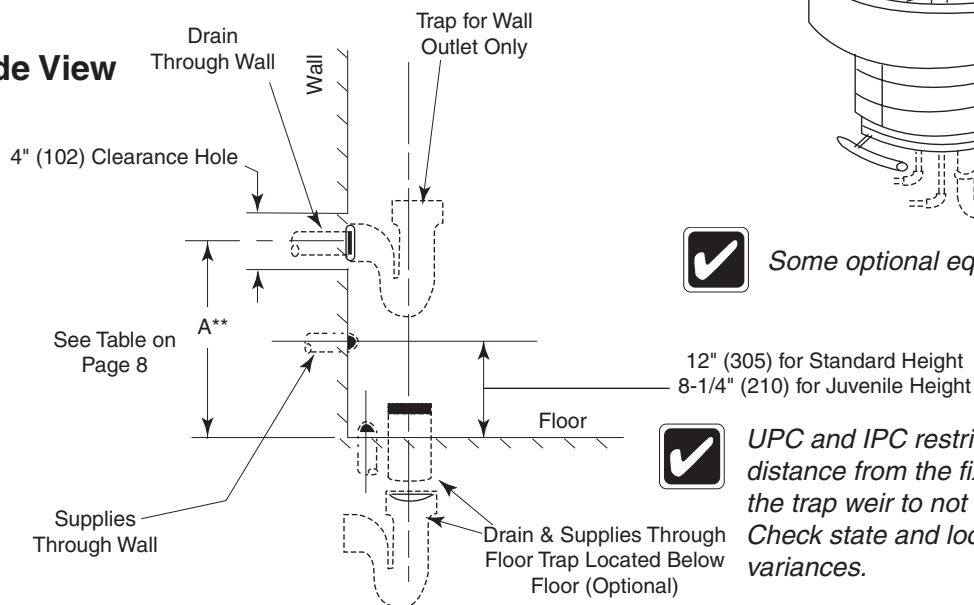
#### Installing Traps

When installing trap with a coupling and nipple, see dimension A in Table on page 8. If trap is installed tight to bottom of bowl, dimension A depends on design of trap.

\*B - Wall to centerline of trap

\*\*A - Centerline of drain to floor

#### Side View



Some optional equipment shown.



UPC and IPC restrict the vertical distance from the fixture outlet to the trap weir to not more than 24". Check state and local codes for variances.

#### Rough-In Notes

1. All pipes and fittings not furnished by Bradley are shown in broken lines.
2. Supply lines for one to two washfountains should be 1", for three washfountains 1-1/2"; for more than three washfountains, pipe sizes should be increased proportionately.
3. Overhead supplies must be reduced to 1/2" copper tube to pass through support tube.
4. Check valve inlets are 1/2" NPT.





# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

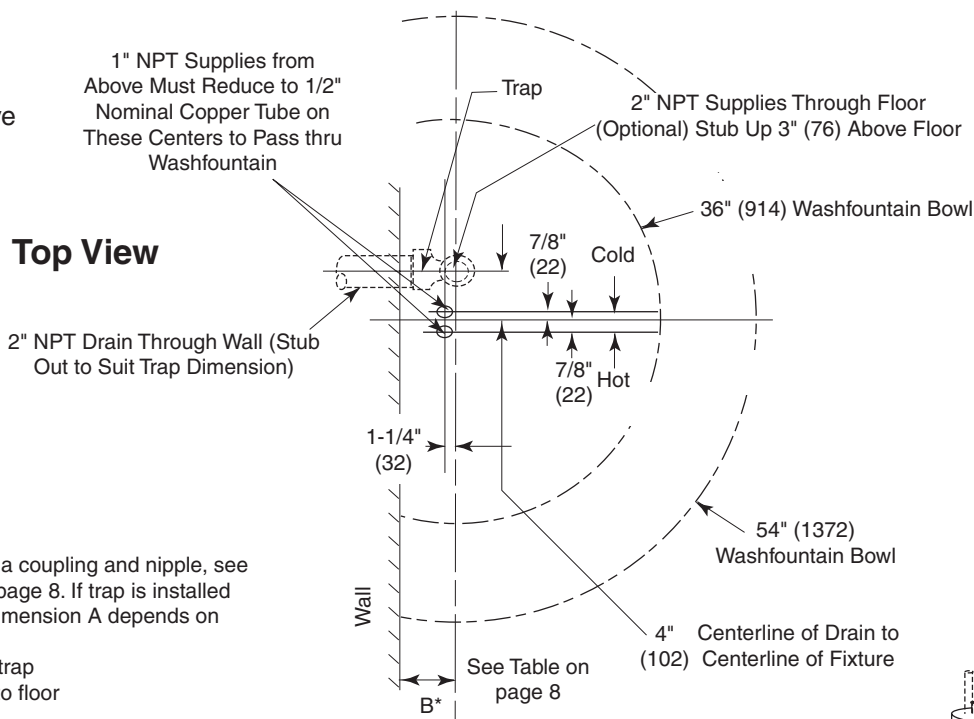
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## Rough-In Specifications

(mm)

### Type O

Off-line vent with  
supplies from above



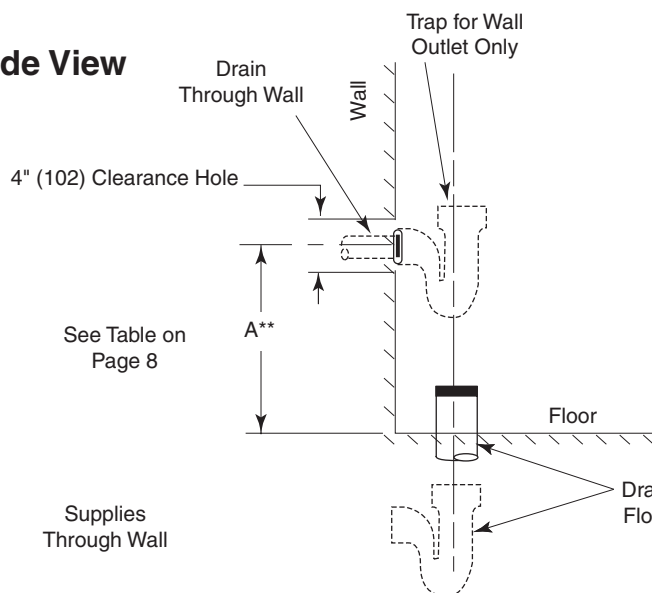
#### Installing Traps

When installing trap with a coupling and nipple, see dimension A in Table on page 8. If trap is installed tight to bottom of bowl, dimension A depends on design of trap.

\*B - Wall to centerline of trap

\*\*A - Centerline of drain to floor

### Side View



Some optional equipment shown.



UPC and IPC restrict the vertical distance from the fixture outlet to the trap weir to not more than 24". Check state and local codes for variances.

#### Rough-In Notes

1. All pipes and fittings not furnished by Bradley are shown in broken lines.
2. Supply lines for one to two washfountains should be 1", for three washfountains 1-1/2"; for more than three washfountains, pipe sizes should be increased proportionately.
3. Overhead supplies must be reduced to 1/2" copper tube to pass through support tube.
4. Check valve inlets are 1/2" NPT.



# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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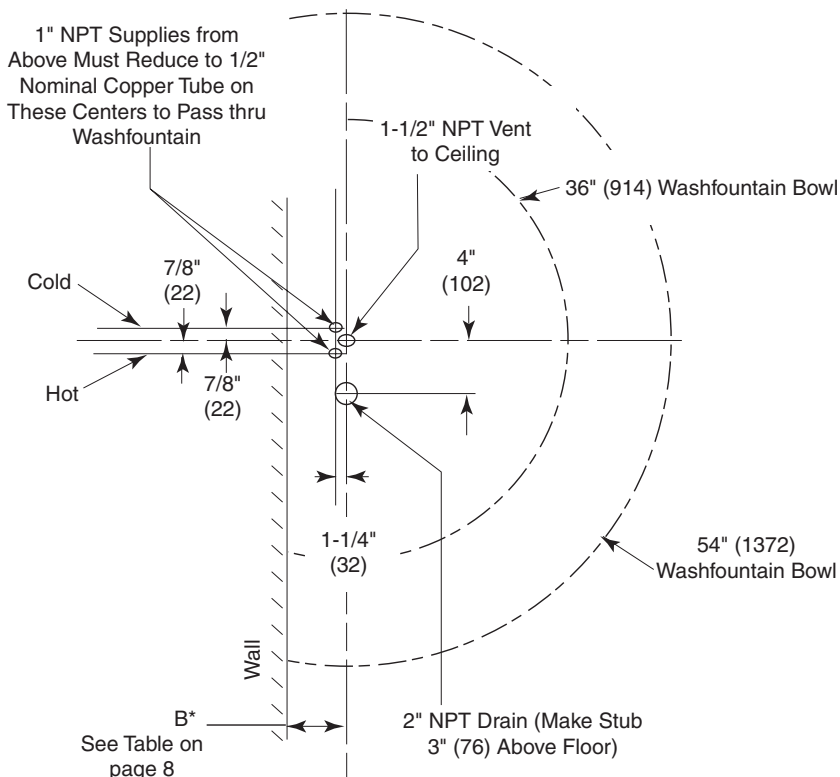
## Rough-In Specifications

(mm)

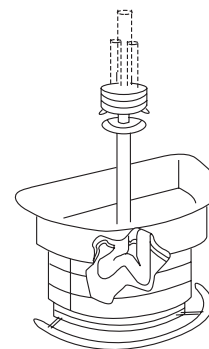
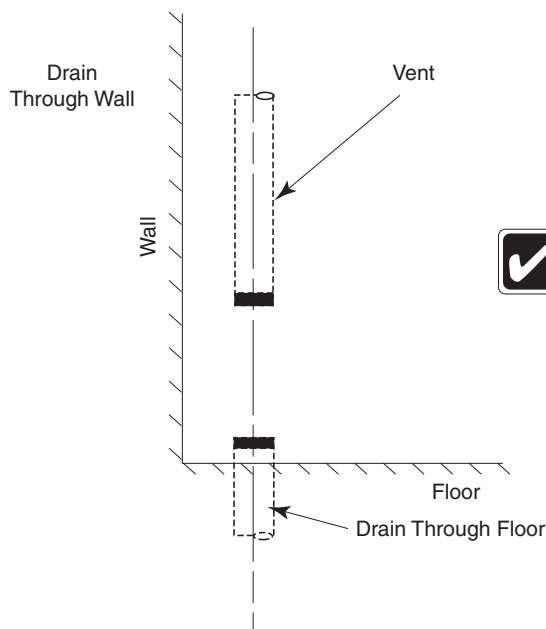
### Type B

Centrally Rising Vent  
with Supplies from  
Above

Top View



Side View



*Some optional equipment shown.*

### Rough-In Notes

1. All pipes and fittings not furnished by Bradley are shown in broken lines.
2. Supply lines for one to two washfountains should be 1", for three washfountains 1-1/2"; for more than three washfountains, pipe sizes should be increased proportionately.
3. Overhead supplies must be reduced to 1/2" copper tube to pass through support tube.
4. Check valve inlets are 1/2" NPT.
5. For maximum rigidity of sprayhead/support tube assembly, use 1-1/2" NPT galvanized pipe for vent. Use of plastic or copper for vent is not recommended.



# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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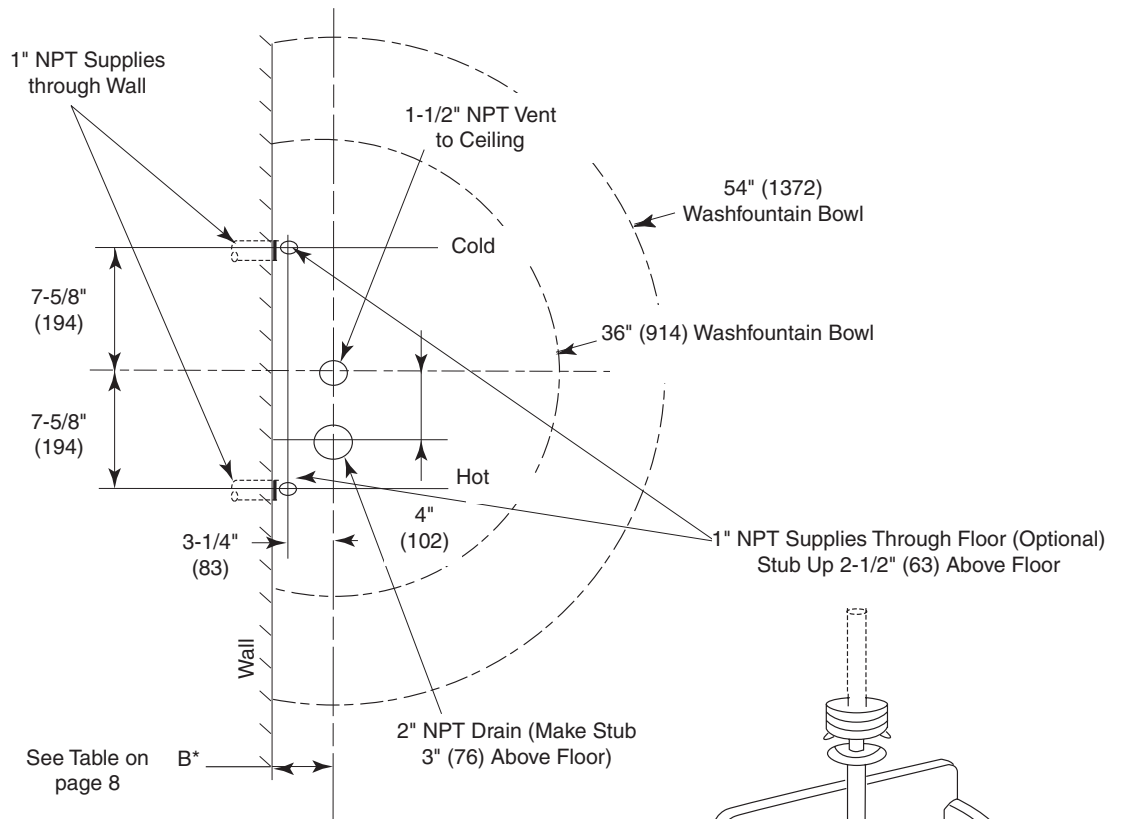
## Rough-In Specifications

(mm)

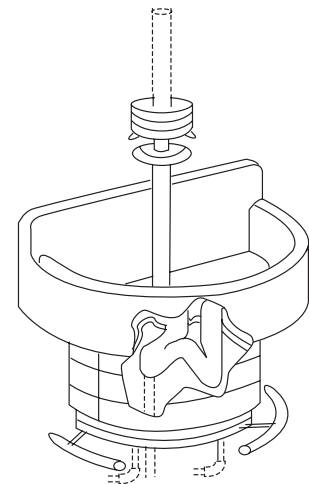
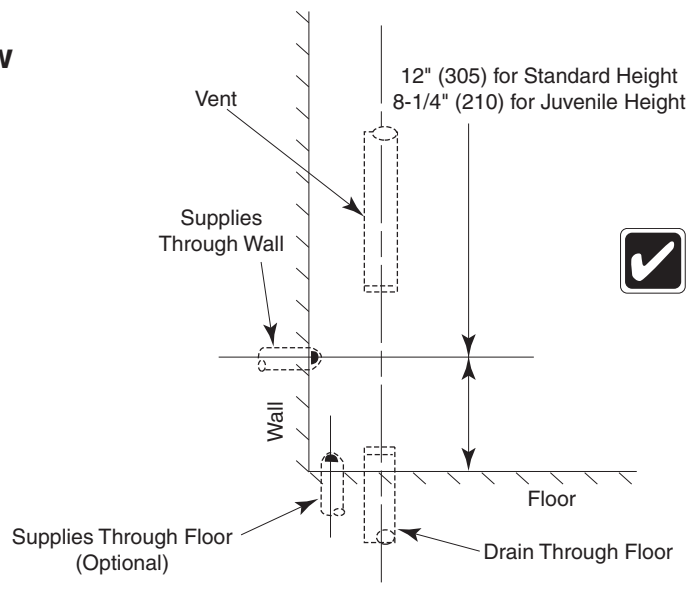
### Type H

Centrally Rising Vent  
with Supplies from  
Below

#### Top View



#### Side View



*Some optional equipment shown.*

### Rough-In Notes

1. All pipes and fittings not furnished by Bradley are shown in broken lines.
2. Supply lines for one to two washfountains should be 1", for three washfountains 1-1/2"; for more than three washfountains, pipe sizes should be increased proportionately.
3. Overhead supplies must be reduced to 1/2" copper tube to pass through support tube.
4. Check valve inlets are 1/2" NPT.
5. For maximum rigidity of sprayhead/support tube assembly, use 1-1/2" NPT galvanized pipe for vent. Use of plastic or copper for vent is not recommended.



# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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## 1 Installing the Drain

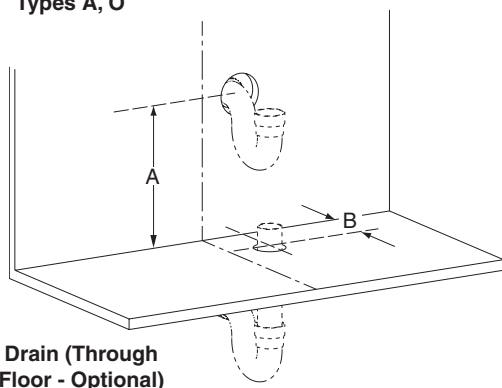
**A** Rough in supply and drain piping as required for your installation.

**B** Assemble the drain to the dimension shown below for the bowl size you are installing.

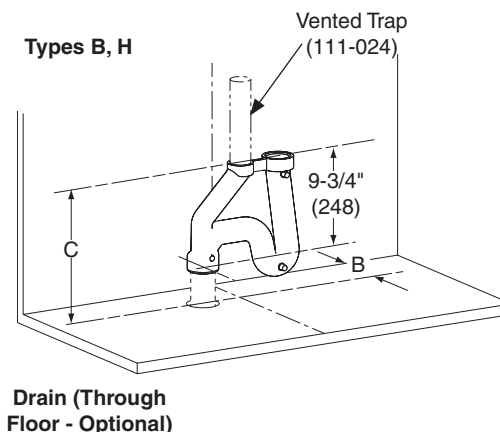


*All piping shown in dotted lines to be supplied by installer.*

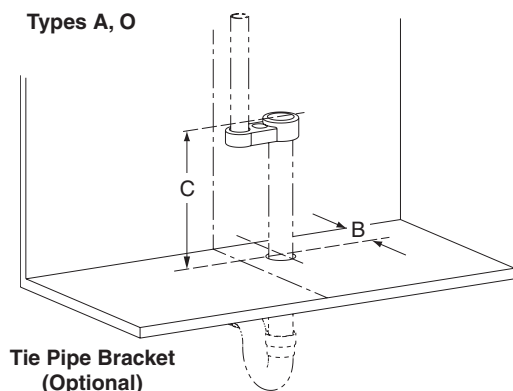
Types A, O



Types B, H



Types A, O



Trap Dimensions (mm)

	A		B	C	
Bowl Material & Size	Standard Height	Juvenile Height		Standard Height	Juvenile Height
54" Terreon	6" (152) to 13-1/4" (336)	6" (152) to 10-1/4" (260)	5-1/4" (133)	18-5/8" (473)	14-5/8" (371)
36" Terreon	6" (152) to 13-1/4" (336)	6" (152) to 10-1/4" (260)	4-3/4" (121)	18-5/8" (473)	14-5/8" (371)
54" Bradstone*	6" (152) to 11-5/8" (295)	N/A	8-1/4" (210)	17" (432)	N/A
36" Bradstone*	6" (152) to 12" (305)	N/A	7-3/4" (197)	17-3/8" (441)	N/A

\* Bradstone is not available in juvenile height.



# Semi-Circular Bowl and Pedestal Assembly (Terreon® and Bradstone®) WF2503, WF2504, WF2803, WF2804

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## 3 Bowl Assembly and Mounting

**NOTICE!** The pedestal must be level when secured to floor for proper drainage.

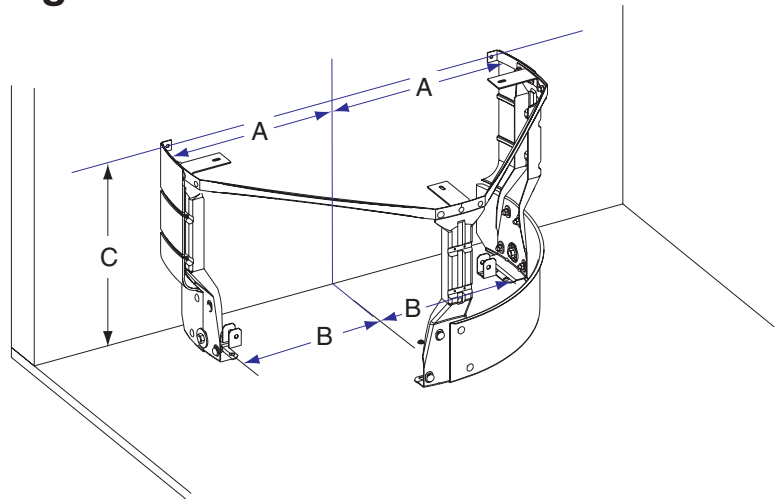
**CAUTION!** Use suitable lifting equipment to position bowl and pedestal assembly. Handle with care! Failure to do so could result in serious personal injuries.

**A** Position the bowl and pedestal assembly so that the bowl drain is in line with the trap or drain line.

**B** Drop the spud into the drain to ensure correct alignment.

**C** Level the bowl, if required, by placing washers under the legs. Check fit against the wall and adjust if necessary by loosening the screws attaching the bowl to the pedestal.

**E** Anchor the pedestal to the floor with suitable fasteners (supplied by installer).



Some optional equipment shown.

**Pedestal Anchoring Dimensions (mm)**

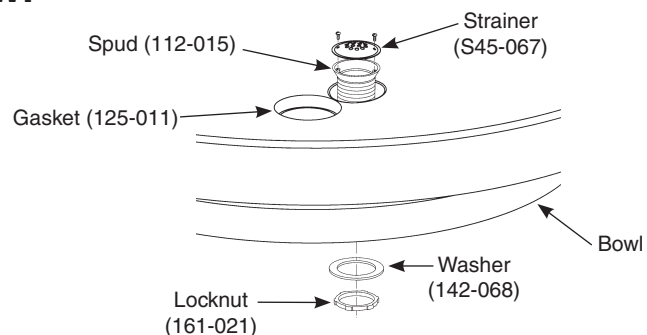
Bowl Material & Size	A	B	C	
			Std. Height	Juv. Height
36" Terreon	11" (279)	8-5/8" (219)	18-1/4" (464)	14-1/4" (362)
54" Terreon	16-1/2" (419)	14-1/8" (359)	18-1/4" (464)	14-1/4" (362)
36" Bradstone*	-	8-5/8" (219)	-	-
54" Bradstone	-	14-1/8" (359)	-	-

## 4 Installing Drain Spud in Bowl

**A** Secure drain spud with lock nut and washers as shown.



Seal between drain spud and drain hole with plumber's putty (supplied by installer).





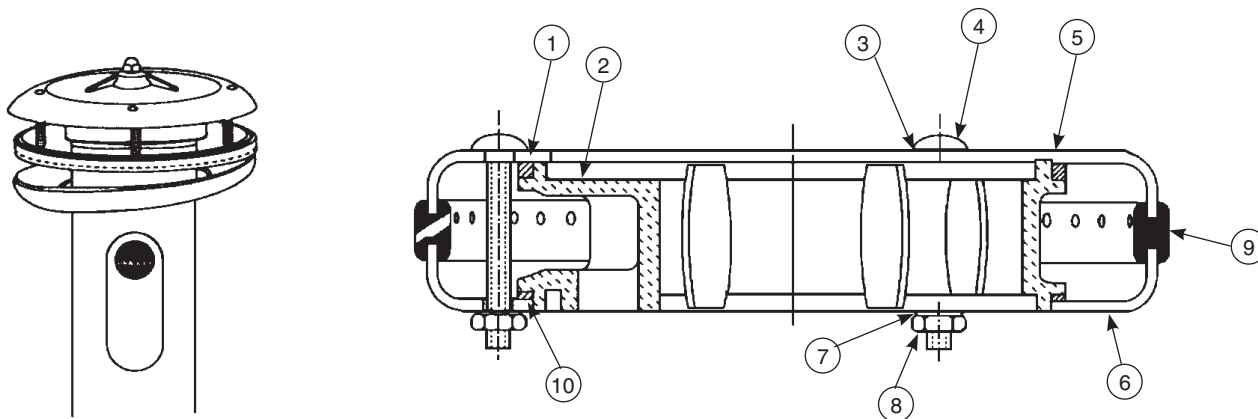
# Sprayheads WF2500, WF2600, WF2700, WF2800, WF3200, TDB3100 Series

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## Non-Sectional Sprayhead



Repair kit does not include sprayhead grommet. Order as a separate item.




## Parts List

Item	Part No.	Description	Sprayhead Assembly	Repair Kit S45-051
			Qty	
1	125-001DE	Neoprene Washer - Top	1	1
2	139-031	Sprayhead Manifold	1	-
3	124-001AL	Washer	3	4
4	160-211	Carriage Bolt	3	4
5	115-061	Sprayhead Top	1	-
6	116-008	Sprayhead Bottom	1	-
7	124-001AT	Washer	3	4
8	161-025	Nut	3	4
9	124-020C	Sprayhead Grommet - Circle	1	-
9	120-020D	Sprayhead Grommet - Semi-Circle	1	-
9	120-020E	Sprayhead Grommet - Corner	1	-
10	125-001DF	Neoprene Washer - Bottom	1	1



## Sprayhead Troubleshooting

Problem	Cause	Solution
Water splashes over the rim of the bowl.	Foreign matter has reduced the size of the sprayhead slots, causing greater pressure at the open slots.	Clean the sprayhead: <ol style="list-style-type: none"><li>1. Disassemble the sprayhead and dislodge any dirt, lime build-up and foreign debris with a wire brush.</li><li>2. Sprayheads with rubber grommet spray rings may be cleaned by rubbing a coin over the grommet.</li></ol>
		Throttle down the volume control (water spray should strike the bowl without splashing outside of the bowl).
Water flow diminishes from the sprayhead.	Strainer portion of the stop-strainer-check valve is plugged.	Remove and clean the strainer screen from the stop-strainer-check valve.   <i>The non-sectional sprayhead includes a perforated neoprene spray ring grommet that is self-cleaning. The water pressure flexes the spray holes which slows accumulation of foreign matter and tends to "break loose" any such deposits that may have accumulated.</i>

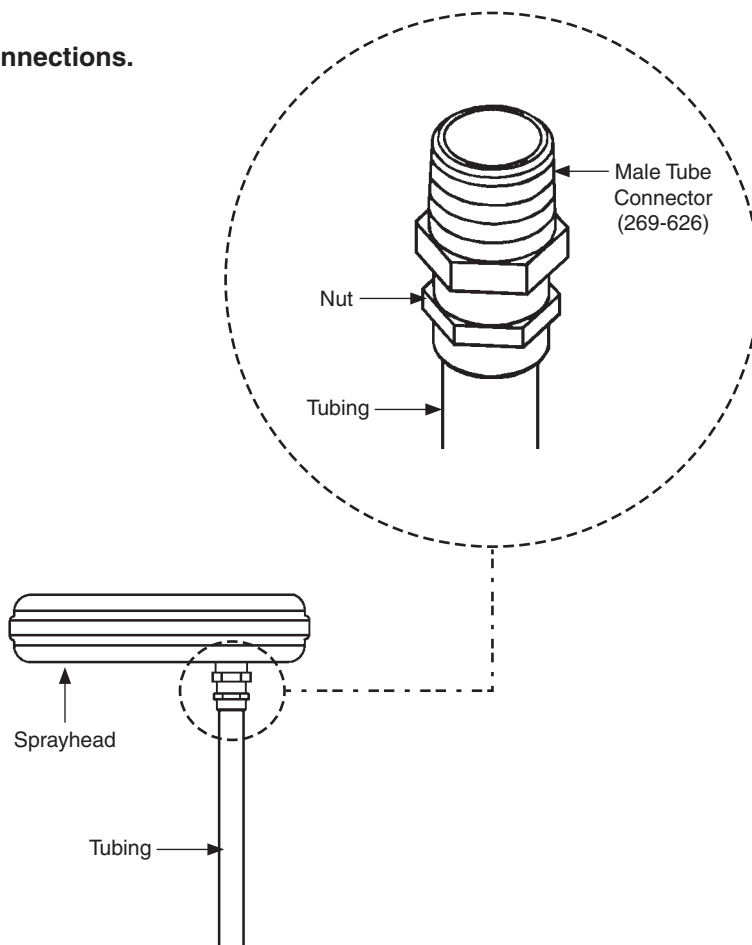
## Sprayhead Tubing Connections

**⚠ WARNING** Flush supply lines before making connections.

**A** Using a sharp razor, cut tubing squarely and remove any burrs. DO NOT pinch or crush end of tubing.

**B** Loosen nut on fitting. Moisten end of tube and push into fitting until it is firmly seated. Tighten nut to secure tube to fitting (make sure nut is securely tightened).

**C** If connector leaks, reseal tubing according to above procedure. If leaking persists, replace male connector, or call a Bradley representative for assistance.





## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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### Supplies Required by Installer

- 110 VAC GFI power source for 120VAC/12VDC plug in adapter.
- OPTIONAL: Bradley recommends installing an electrical cutoff switch to the unit. This feature allows no accidental water delivery during regular maintenance and service.

### Pre-Installation Information

#### Adaptive Infrared

The sprayhead is controlled by a solenoid valve, allowing the user to activate a flow of water. The infrared sensor will take a few minutes to adapt to its environment when the unit is powered up.

#### Solenoid Valve

An electronically controlled solenoid valve serves as the metering mechanism. Few moving parts provide reliable metering performance and the solenoid is unaffected by chemicals and minerals often present in municipal water supplies.



*Not all equipment shown in this document is available on all washfountains shown within these pages.  
See Tech Data for optional equipment available for your washfountain.*





# Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

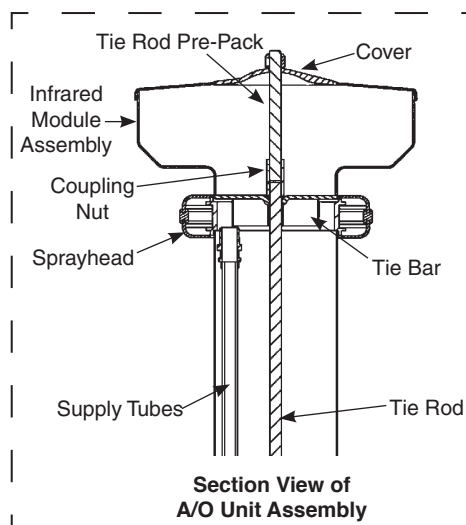
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## 1a Adaptive Infrared Assembly – A and O Units

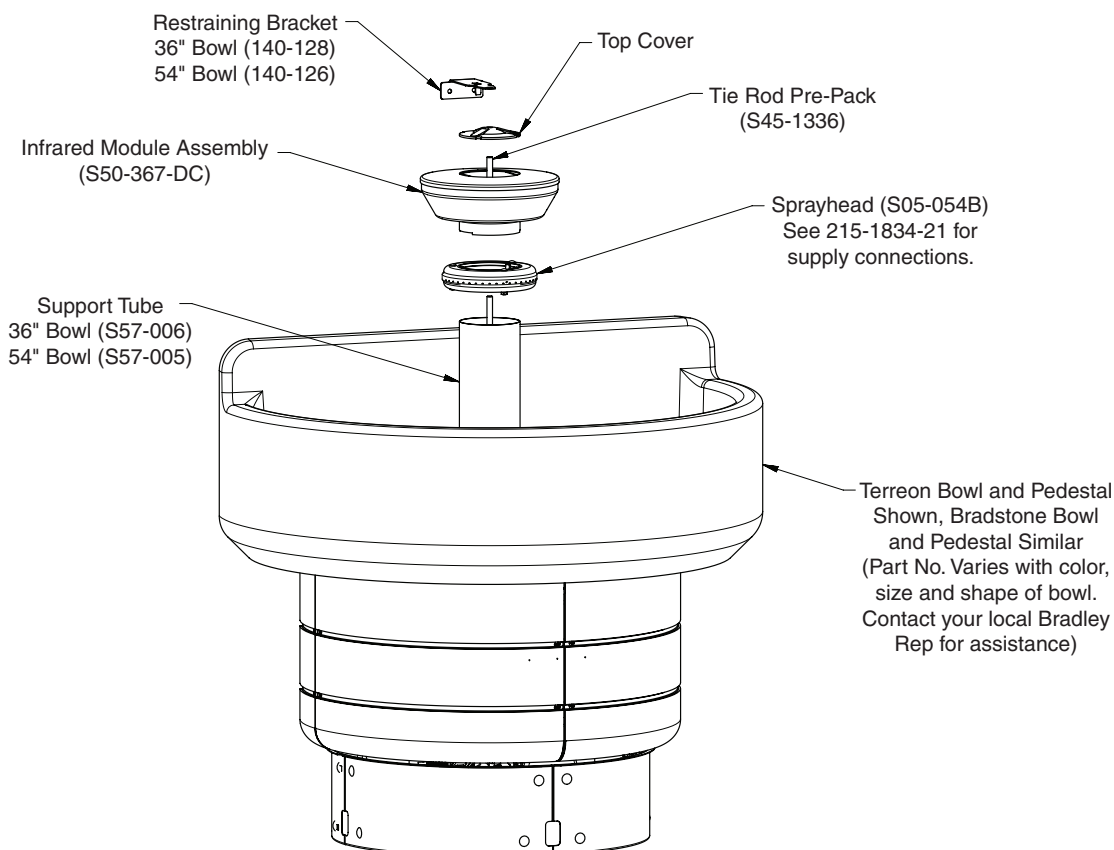
**A** Install hemmed end (not sharp end) of support tube with gasket onto bowl.

**B** Connect 3/8" supply tubing to sprayhead with tube connector and place sprayhead onto support tube. Run the tubing down through the support tube to valve tube connector. Make sure the spray holes point away from the wall.

**C** Place the upper tie bar (notched at both corners of each end) on top of sprayhead. Connect the longer tie rod to the 4-1/4" tie rod using the coupling nut with hex head set screws. Run the tie rod assembly down through upper tie bar and secure from underneath the bowl using lower tie bar (no notches) and hex nut with socket head set screw.



*Some optional equipment shown.*





## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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### 1a Adaptive Infrared Assembly – A and O Units (cont...)

**D** Place the infrared module assembly on top of sprayhead. Rotate until infrared module locks in with tie bar. Drop infrared sensor cables down to valve assembly. Make sure sensors are facing away from the wall.



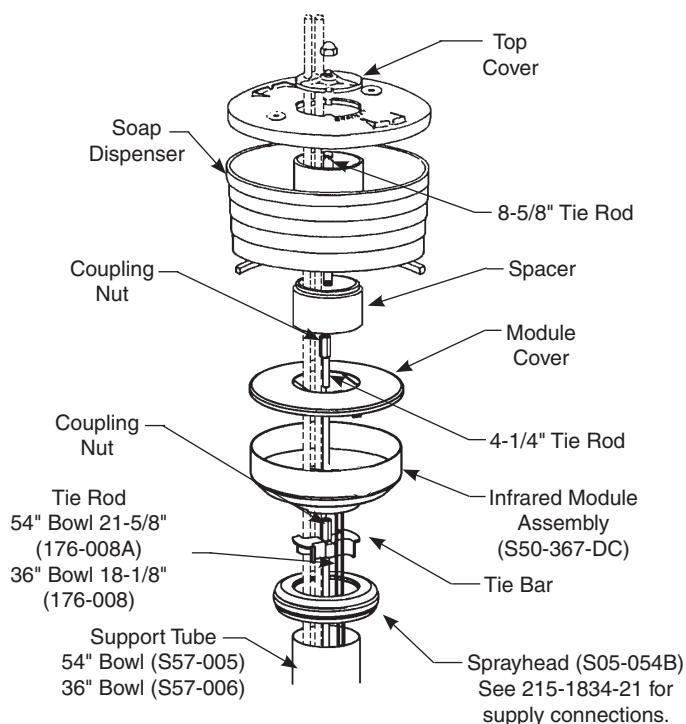
*Skip to step F for units without soap.*

**E** For units with soap option, install the spacer, soap dispenser and cover using the third tie rod (8-5/8" long) and second coupling nut as shown. Secure with acorn nut and set screw.

**F** Secure infrared module cover and top cover with sprayhead restraining bracket, acorn nut and set screw.

**G** **For O Unit:** Install 1/2" nominal copper tubing supply lines (pass them through holes in cover down through support column) and connect to stops using suitable fittings.

Unit with "O" Drain and Infrared Module Shown, Also Available with "A" Drain



*Some optional equipment shown.*



## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

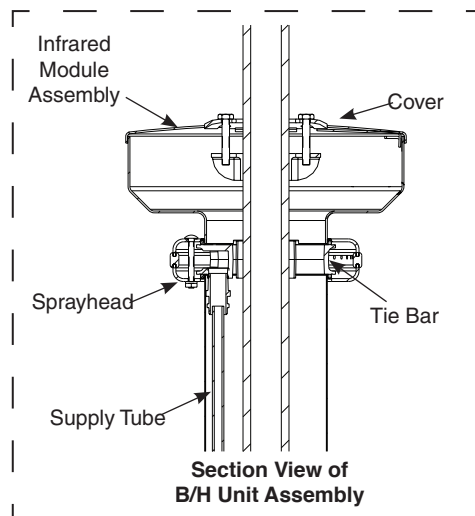
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### 1b Adaptive Infrared Assembly – B and H Units

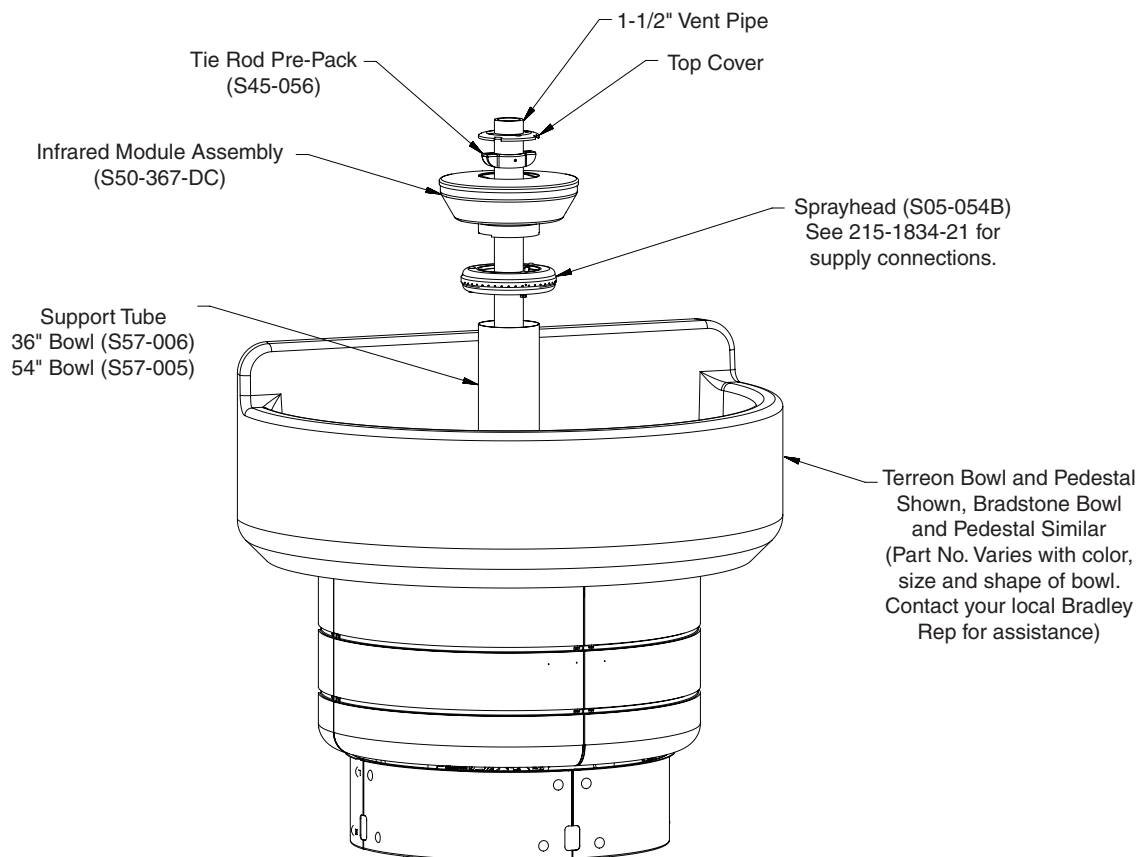
**A** Install hemmed end (not sharp end) of support tube with gasket onto bowl.

**B** Connect 3/8" supply tubing to sprayhead with tube connector and place sprayhead onto support tube. Run the tubing down through the support tube and connect to valve tube connector. Make sure the spray holes point away from the wall.

**C** Insert the 1-1/2" vent pipe (supplied by installer) down through the support tube and thread into vented trap.



*Some optional equipment shown.*





## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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### 1b Adaptive Infrared Assembly – B and H Units (cont...)

**D** Place the infrared module assembly on top of sprayhead. Rotate until infrared module locks in with tie bar. Drop infrared sensor cables down to valve assembly. Make sure sensors are facing away from the wall.

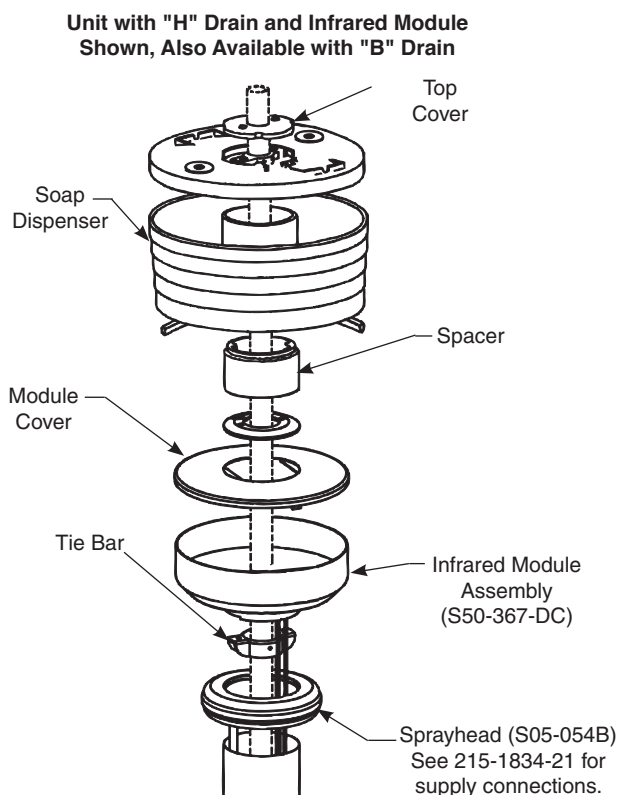


*Skip to step F for units without soap.*

**E** For units with soap option, slide the spacer and soap dispenser over the 1-1/2" pipe.

**F** Position the upper tie bar slightly below the module or soap dispenser and fasten securely to vent pipe with set screws provided. Secure top cover to tie bar with two cap screws provided.

**G** **For B Units:** Install 1/2" nominal copper supply lines (pass through holes in cover and through support column) and connect supply lines to stops using suitable fittings.



*Some optional equipment shown.*



# Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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## 2 Connect Valve and Tubing for Non-Sectional Infrared Control



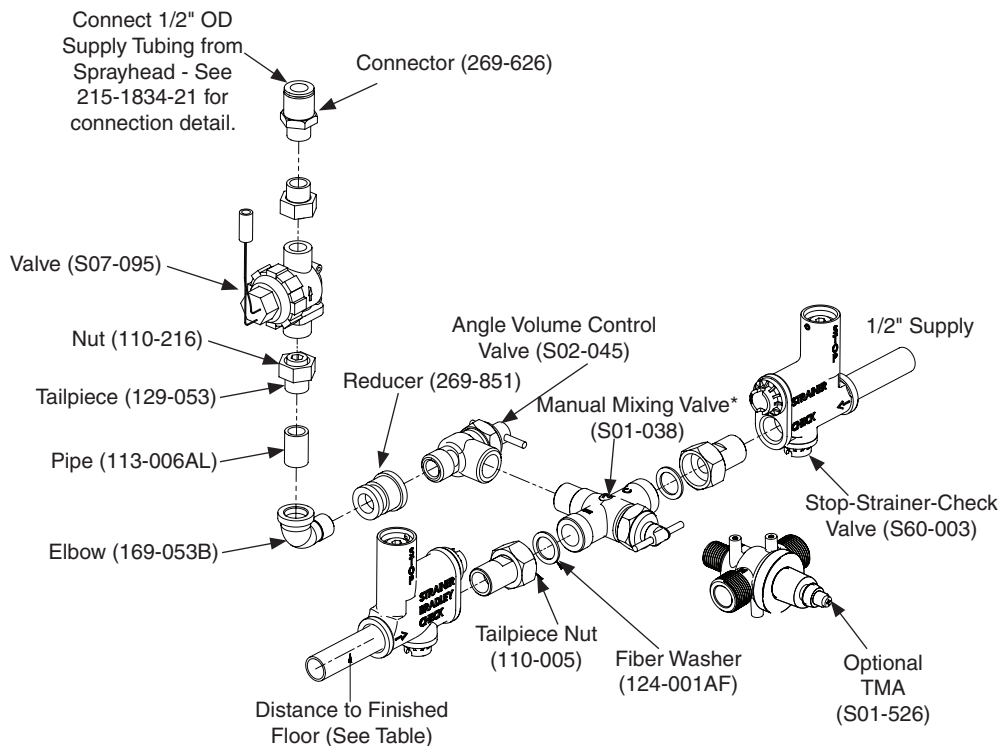
Flush supply lines before making connections.



Other components not shown for clarity.

**A** Connect 1/2" dia. tubing from the sprayhead to the solenoid assembly. The male connector for the valve assembly will remain tight and leakproof when tubing is cut and installed properly. Follow the procedures below when installing tubing to ensure that you achieve a leakproof seal.

- Using a sharp razor, cut tubing squarely and remove any burrs. DO NOT pinch or crush end of tubing.
- Loosen nut on fitting. Moisten end of tube and push into fitting until it is firmly seated. Tighten nut to secure tube to fitting (make sure nut is securely tightened).
- If connector leaks, reseal tubing according to above procedure. If leaking persists, replace male connector, or call your Bradley representative for assistance.



\* Not a temperature limiting device. Installer must provide an ASSE 1070 device where required per code.

Distance from 1/2" Supply to Finished Floor

Model	Type A	Type B	Type O	Type H
Standard Height	9" (229mm)	6-3/16" (157mm)	9" (229mm)	6-3/16" (157mm)
Juvenile Height	5-1/4" (133mm)	3-7/16" (87mm)	5-1/4" (133mm)	3-7/16" (87mm)

**B**

Connect the stop-strainer-check valves, mixing valve, volume control valve and solenoid valve assembly to the supplies as shown. Use pipe sealant to seal threads.



# Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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## 2 Connect Valve and Tubing for Non-Sectional Infrared Control (Cont...)



For "O" and "B" units (overhead supplies) skip steps C through E.



Bowl, tubing and supplies not shown for clarity.

**C**

For overhead supply, install 1/2" nominal copper supply tubing by passing lines through holes in the dispenser cover and then down through the support tube.

**D**

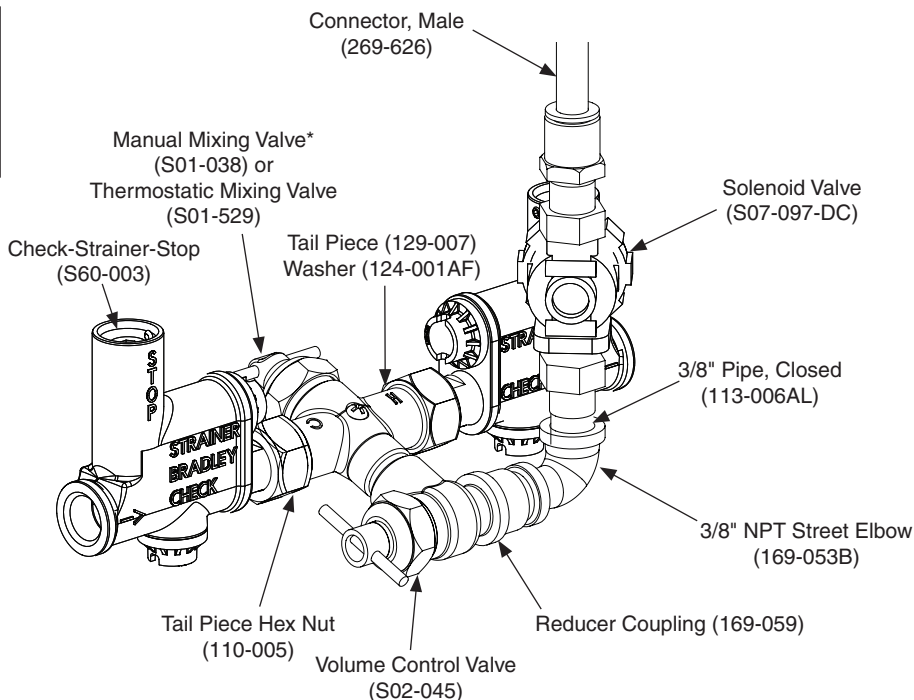
Using suitable fittings, install the complete valving assembly to the supplies as shown at the approximate height indicated in table on previous page.

**E**

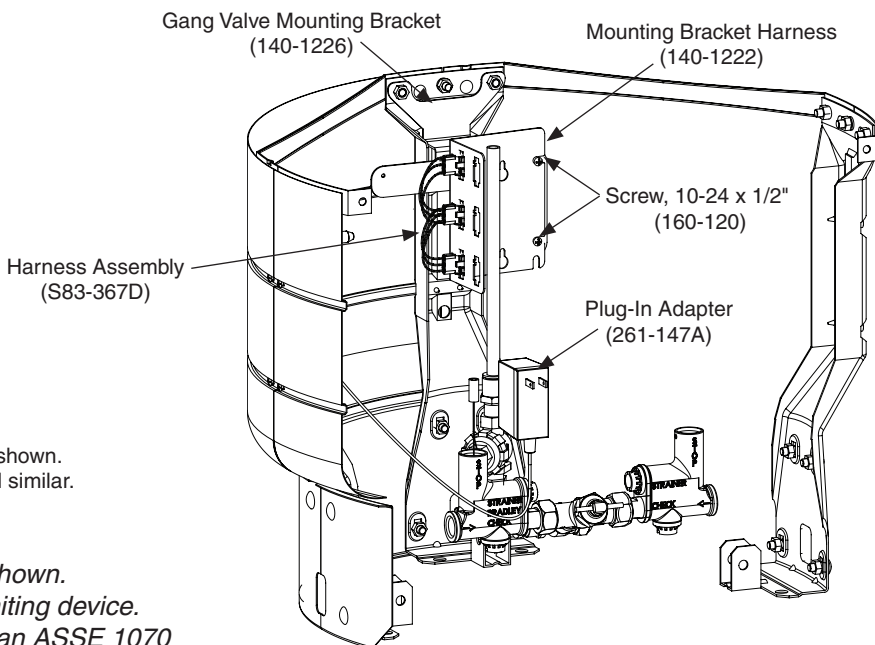
Connect the 1/2" supply tubing from the sprayhead to the solenoid valve assembly.

**F**

When tubing and wiring connections (see electrical connections section) are complete, angle volume control valve is to be used as volume control to control spray pattern from sprayhead. Also verify that each push button activates sprayhead.



\* Not a temperature limiting device. Installer must provide an ASSE 1070 device where required per code.



Terreon pedestal shown.  
Bradstone pedestal similar.



Manual mixing valve shown.  
(Not a temperature limiting device.  
Installer must provide an ASSE 1070  
device where required per code.



## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

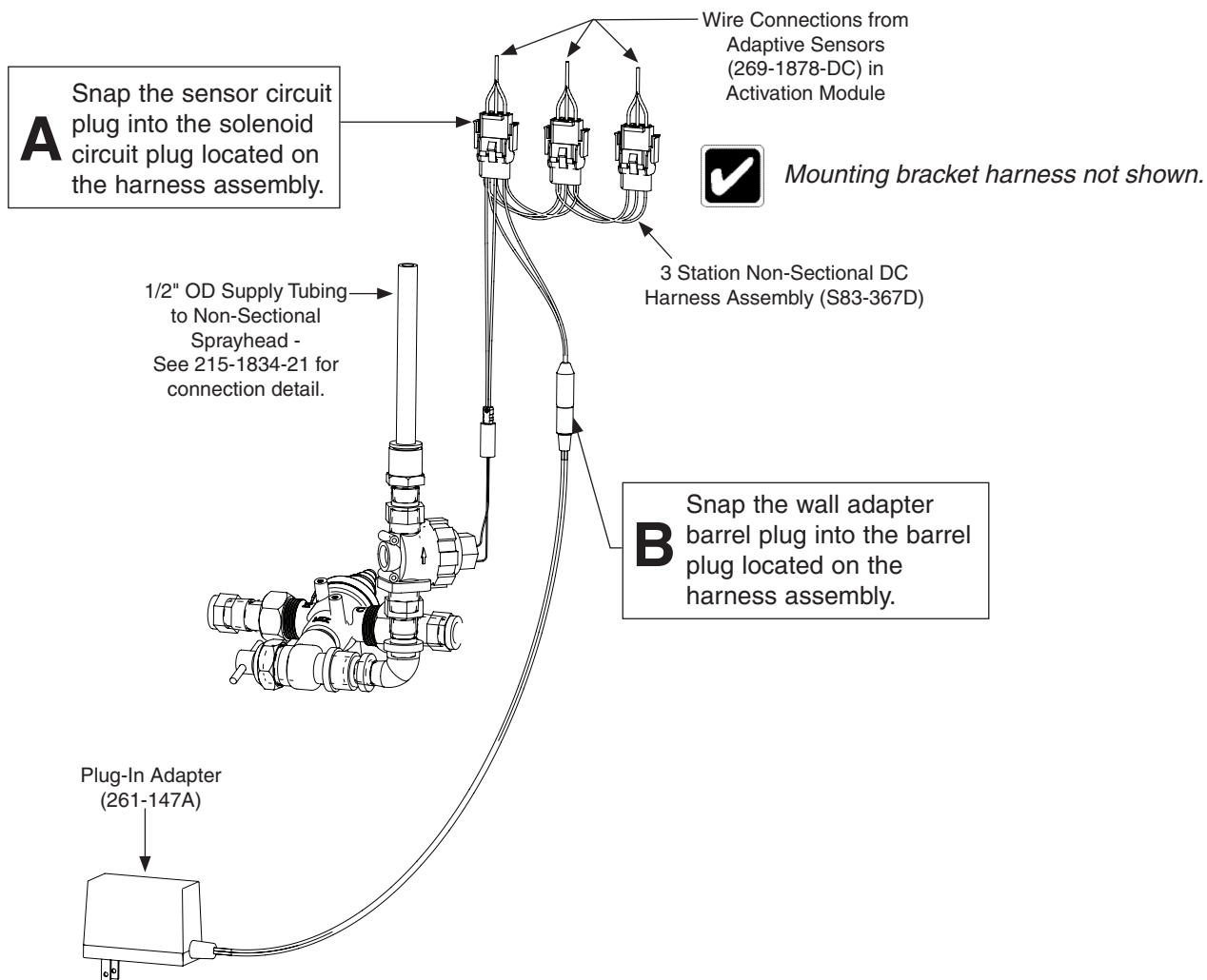
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### 3 Make Electrical Connections

**⚠ WARNING!** The Adaptive Infrared activation must be connected with a 12V DC plug in adaptor.  
Connections to 110 VAC can cause personal injury and will result in damage to the electronics.



**STOP!!!** If installing optional Shroud/Slip Ring or Towel Dispensers, complete those installations before proceeding to Step 4 (see Optional Equipment Installation page).







## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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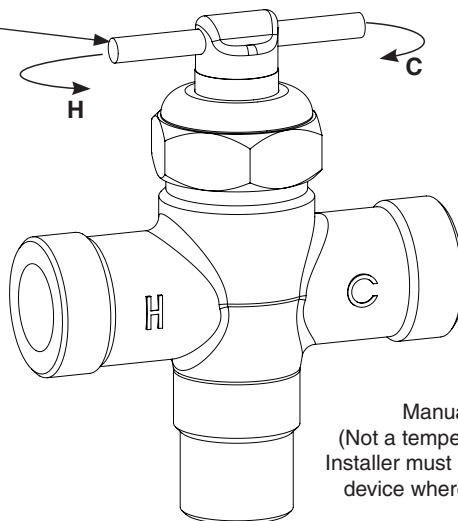
### 4 Turn on Water and Electricity, Test and Adjust Unit

**A** Turn on power to plug-in adapter. The solenoids will buzz when a sensor is activated. If no buzz, check wiring.



*Check to make sure stop valves are open before turning on water.*

**C** Gently turn handle of manual mixing valve until desired water temperature is reached.



**B** Turn on water supply and check for leaks. Activate each infrared sensor to purge air from the lines.



*On units ordered with optional TMA, temperatures are NOT factory preset. Upon installation, the temperature of these valves must be checked and adjusted to ensure delivery of a safe water temperature. Water in excess of 110°F (43°C) may cause scalding.*

Manual Mixing Valve  
(Not a temperature limiting device.  
Installer must provide an ASSE 1070  
device where required per code.)





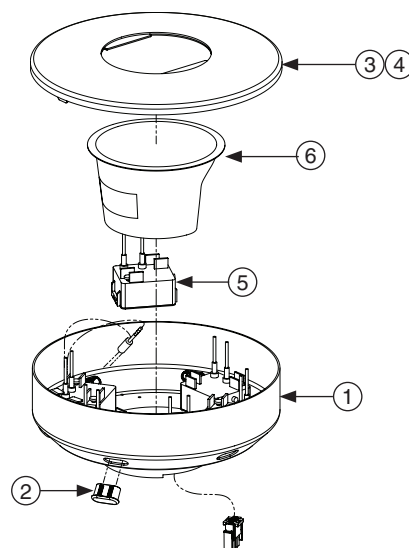
## Infrared Activation Modules - Non-Sectional Semi-Circular Washfountains WF2503, WF2504, WF2803, WF2804

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### Infrared Module Components

Item	Qty.	Part No.	Description
1	1	219-033A	Shell Assembly, Non-Sectional Semi-Circular
2	3	269-1351	Window, Washfountain Sensor
3	1	S04-083	Module Cover Assembly
4	1	124-067	Gasket, Cover
5	3	269-1878-DC	Sensor - Adaptive Infrared
6	1	144-066	Module Sleeve

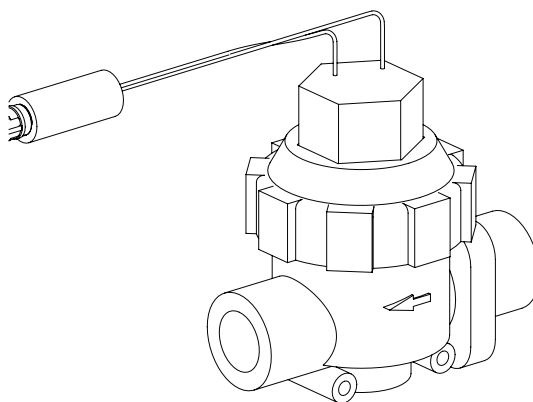
\*S50-367-DC module shown. Other modules similar. Some components and quantities vary by model.



### Troubleshooting – Solenoid Valve: Part nos. S07-095



Turn off water supplies to the unit before troubleshooting.



Problem	Cause	Solution
An individual operating station fails to shut off and drips.	Internal cartridge failure.	Replace cartridge S27-352B.
An individual operating station fails to turn on.	A failed cartridge 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"><li>1. Disconnect the wires from the cartridge of an adjacent valve. Disconnect the wires from 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 of the problem station, and the adjacent station should turn on.</li></ol> <p>If the adjacent station turns on and cycles normally, replace the cartridge 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"><li>• make sure there are no breaks and that the fully insulated disconnect terminals are firmly crimped in place;</li><li>• turn off the electrical and water supplies;</li><li>• reconnect to the adjacent valve and turn on the water supplies to the unit;</li><li>• pass your hand in front of the sensor. If the station still fails to turn on, replace the sensor.</li></ul>