Whitehall Manufacturing®
Manufacturer of Healthcare and Rehabilitation Products since 1946

Ligature Resistant ADA Compliant, Sensor Operated Drinking Fountain And Bottle Filler

Model WHBF6

IMPORTANT

Important: Some options may slightly alter installation. To ensure proper installation review the manual thoroughly and verify rough-ins before beginning any work. File this manual with the owner or maintenance personnel upon completion of installation.

Industry standard wall backing, for wall hung fixtures, is required. Installer provided wall anchors and wall anchoring hardware must be appropriate for wall construction.

ANSI, UFAS or ADA compliance is subject to the interpretation and requirements of the local code authority and is the responsibility of the installer for verification.

Valve Assembly: Recommended working water pressure is 30 psi (2.07 bars) minimum to 100 psi (6.89 bars) maximum. Maximum temperature is 130°F (54.4°C). Valve assembly must be drained prior to being subjected to freezing temperatures.

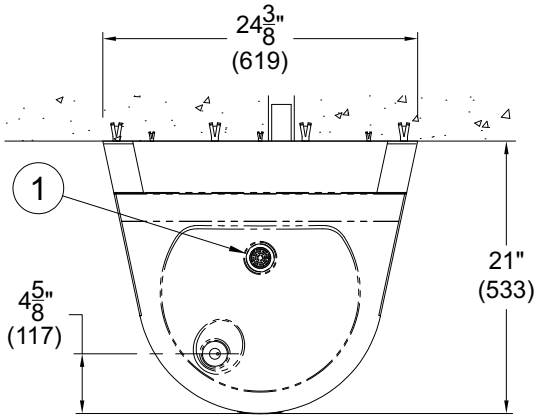
Prior to installation, supply lines must be flushed of all foreign material such as pipe dope, chips, or solder. Debris or foreign material in water supply may damage valve.

Teflon tape is recommended on all threaded waste and supply connections to reduce the possibility of leaks.

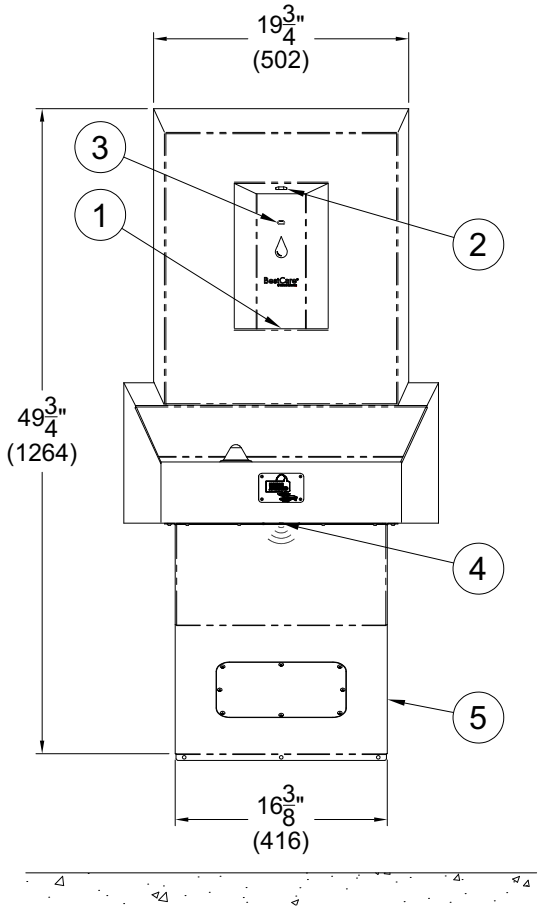
Provide 110-120VAC/60Hz/3A (MAX) electrical receptacle for factory supplied 120VAC/9VDC, 100mA plug-in transformer.

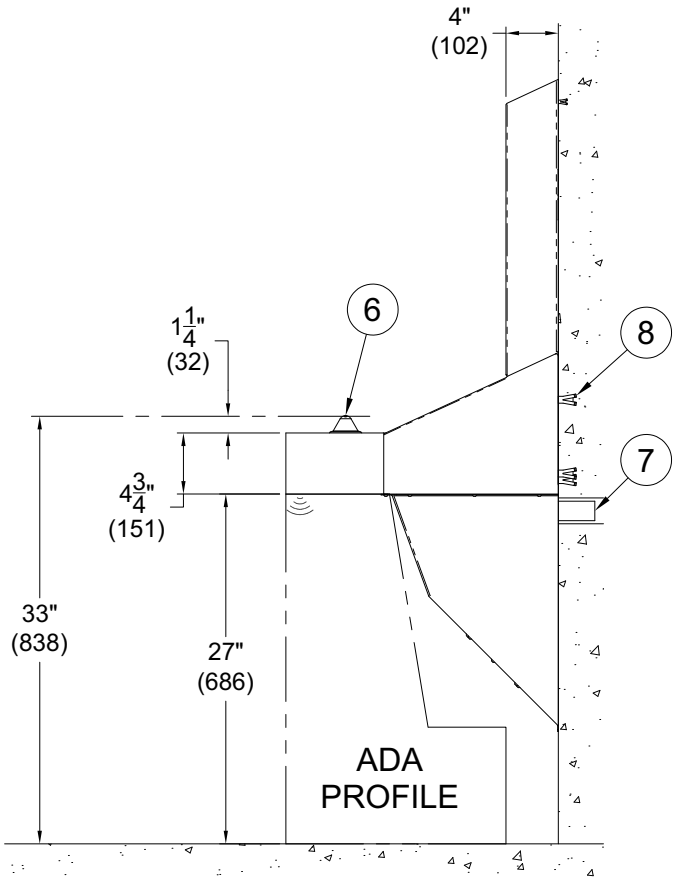
NOTE: Receptacle(s) must be wired to a GFCI protected circuit. Fixture must be earth grounded per N.E.C. (National Electrical Code).

6900-219-001 New: 10/22/2022



NOTES:
1. LIGATURE RESISTANT GRID STRAINER
2. BOTTLE FILLER SPOUT
3. BOTTLE FILLER SENSOR
4. CONCEALED DRINKING FOUNTAIN SENSOR
5. LIGATURE RESISTANT TRAP COVER WITH ACCESS PANEL
6. LIGATURE RESISTANT DRINKING BUBBLER
7. 1-1/2 O.D. WASTE OUTLET
8. WALL ANCHORING HARDWARE (BY OTHERS)





WHBF16

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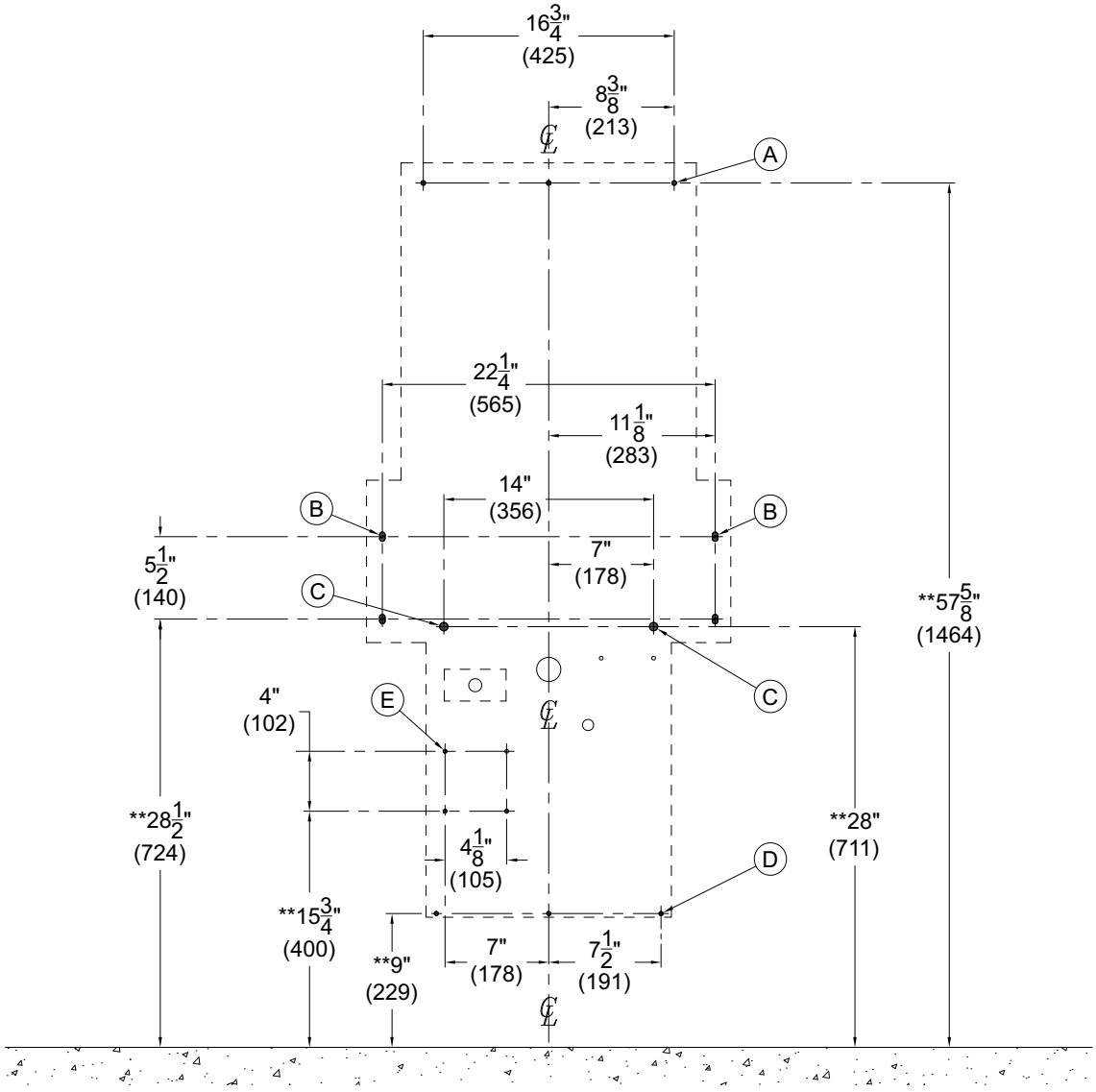
MOUNTING DIMENSIONS -ADA (Adult)



(A) * Bottle Filler Hanger Bracket Mounting Points (3) Ø5/16" Holes For Installer Provided Wall Anchors And Anchoring Hardware. Anchors With Min. Pull-Out Force Of 1000 LBS Per Anchor.

(B) * Fixture Support Mounting - (4) Ø3/8" x 5/8" Mounting Slots For Installer Provided Wall Anchors And Anchoring Hardware. Anchors With Min. Pull-Out Force Of 1000 LBS Per Anchor.

(C) * Fixture Support Mounting - (2) Ø9/16" Mounting Hole For Installer Provided Wall Anchors And Anchoring Hardware. Anchors With Min. Pull-Out Force Of 1000 LBS Per Anchor.

(D) * Trap Enclosure Mounting Points (3) Ø9/32" Holes For Installer Provided Wall Anchors And Anchoring Hardware. Anchors With Min. Pull-Out Force Of 1000 LBS Per Anchor.

(E) (4) Ø1/4" Valve Plate Mounting Holes

NOTE: Callouts with (*) requires proper backing to secure wall anchors for fixture support mounting.

NOTES: Dimensions indicated (**) are for ADA frontal approach installation. Adjust vertical dimension (**) as required to comply with federal, state, and local codes. For Child ADA compliant parallel approach, decrease Bubbler discharge height to 30" maximum above finished floor. Provide clear floor space as required.

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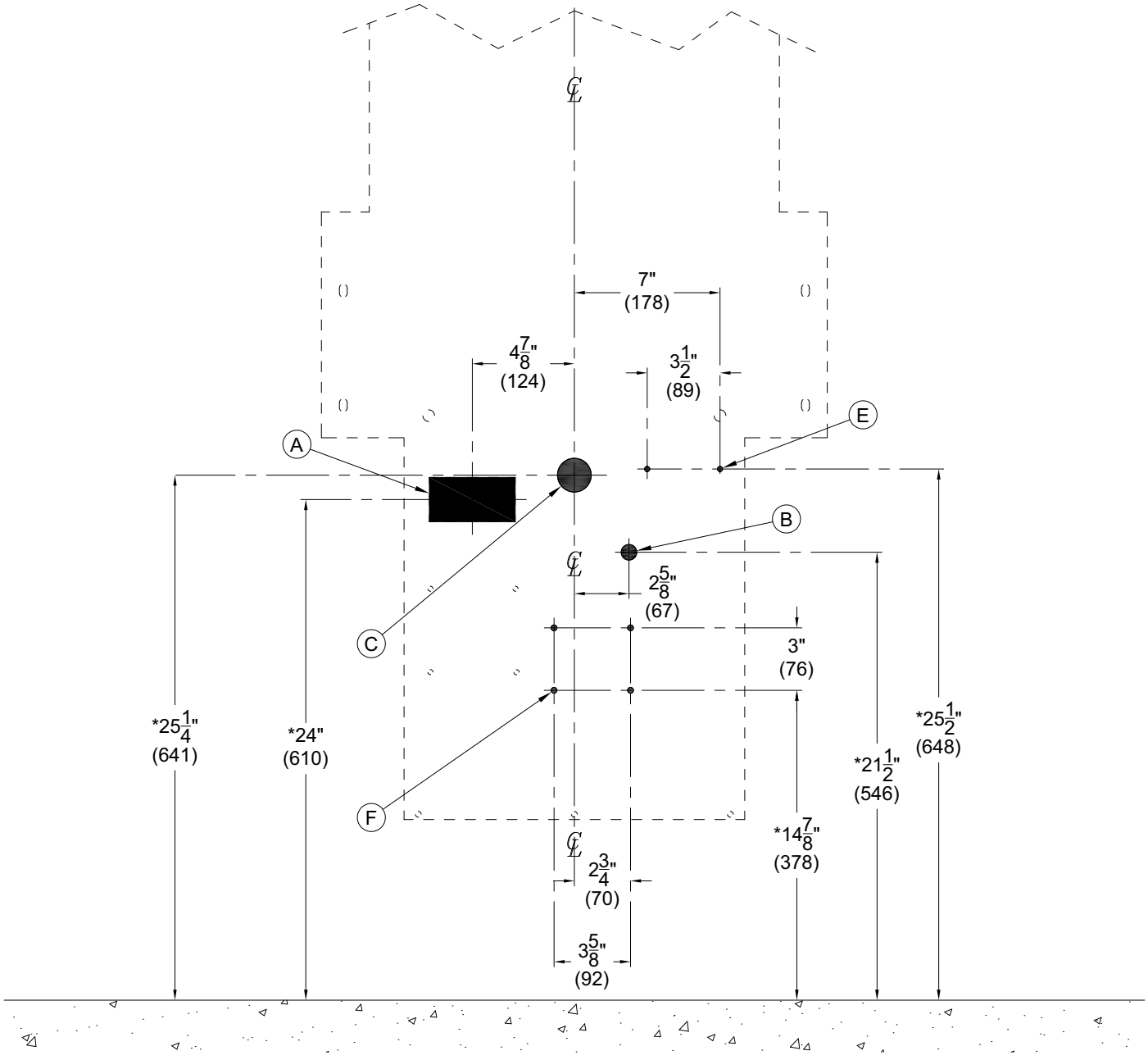
ROUGH-IN DIMENSIONS -ADA (Adult)



(A) 120VAC, 60Hz, 3A (Max) GFCI Protected, Electrical Receptacle

(B) 3/8" NCT Angle Stops (By Others)

(C) 1-1/2" O.D. Waste Outlet

(D) (2) Ø1/4" Mounting Holes for Optional Water Filter Bracket

(E) (4) Ø1/4" Mounting Holes for Optional -BAT Battery Pack Mounting Plate

NOTES: Dimensions indicated (*) are for ADA frontal approach installation. Adjust vertical dimension (*) as required to comply with federal, state, and local codes. For Child ADA compliant parallel approach, decrease Bubbler discharge height to 30" maximum above finished floor. Provide clear floor space as required.

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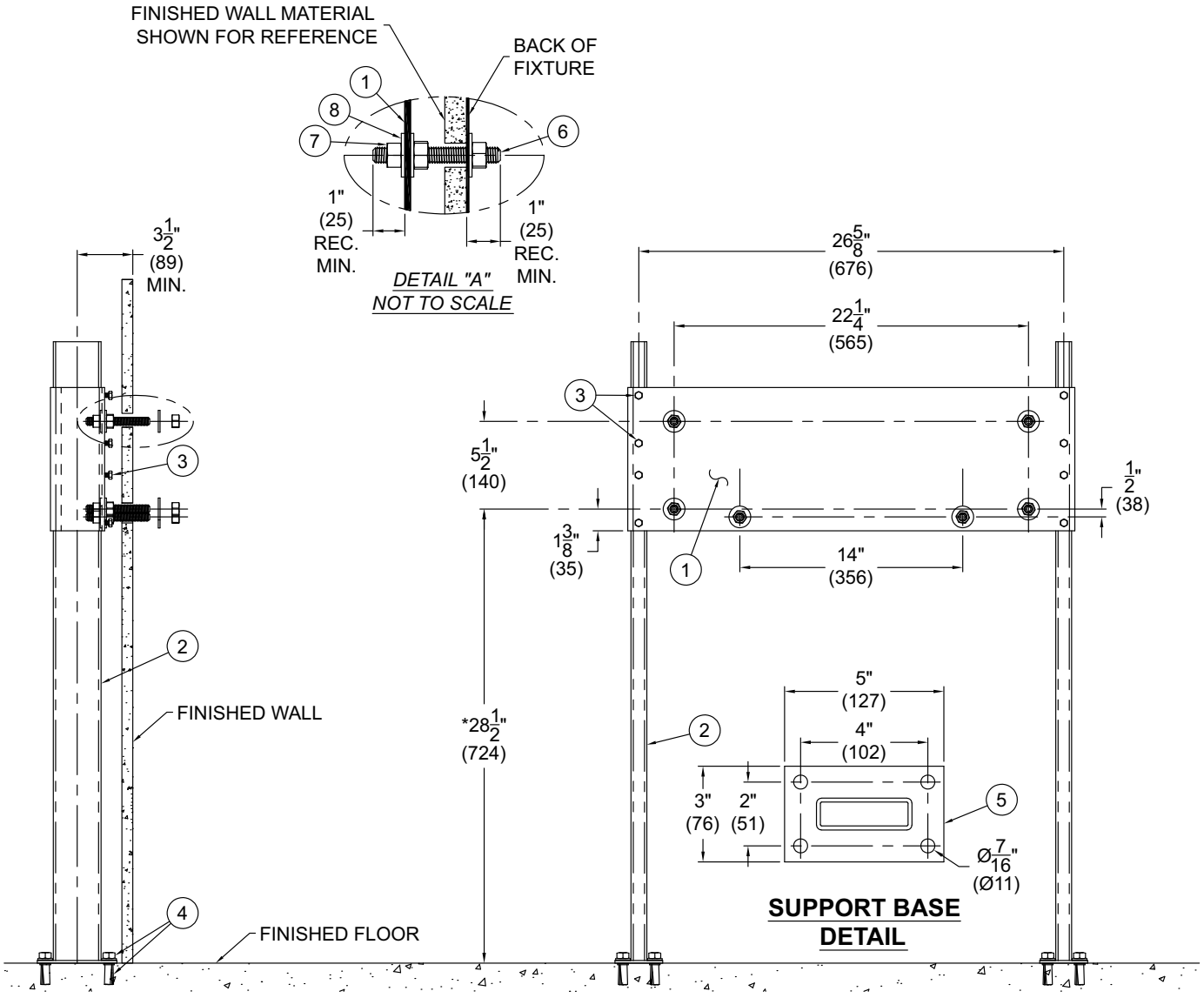
OPTIONAL -MC MOUNTING CARRIER



INSTALLATION INSTRUCTIONS:

A- INSTALL HORIZONTAL SUPPORT ① BRACKET ONTO VERTICAL UPRIGHTS ② TO OBTAIN PROPER VERTICAL SPACING USING 1/4-20 UNC x 1/2" BOLTS ③ PROVIDED.

NOTE: FLOOR ANCHORS AND FLOOR ANCHORING HARDWARE ④ ARE PROVIDED BY INSTALLER.

B- ANCHOR SUPPORT BASES ⑤ TO A RIGID FLOOR OR OTHER RIGID SUBSTRUCTURE WITH INSTALLER PROVIDED HARDWARE ④. SEE DETAIL.

C- INSTALL 1/2"-13 UNC x 4" THREADED MOUNTING STUDS ⑥ NUTS ⑦ AND WASHERS ⑧ ONTO HORIZONTAL SUPPORT BRACKET ①.

NOTE: ENSURE THERE IS AT LEAST 1" ENGAGEMENT OF MOUNTING STUDS ⑥ INTO BRACKET ① AND 1" BEYOND FINISHED WALL AS SHOWN IN DETAIL "A".

D- ALIGN AND POSITION FOUNTAIN ONTO MOUNTING STUDS ⑦. SECURE WITH REMAINING HARDWARE TO COMPLETE INSTALLATION.

NOTES: Dimensions indicated (*) are for ADA frontal approach installation. Adjust vertical dimension (*) as required to comply with federal, state, and local codes. For Child ADA compliant parallel approach, decrease Bubbler discharge height to 30" maximum above finished floor. Provide clear floor space as required.

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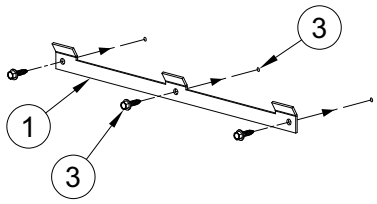
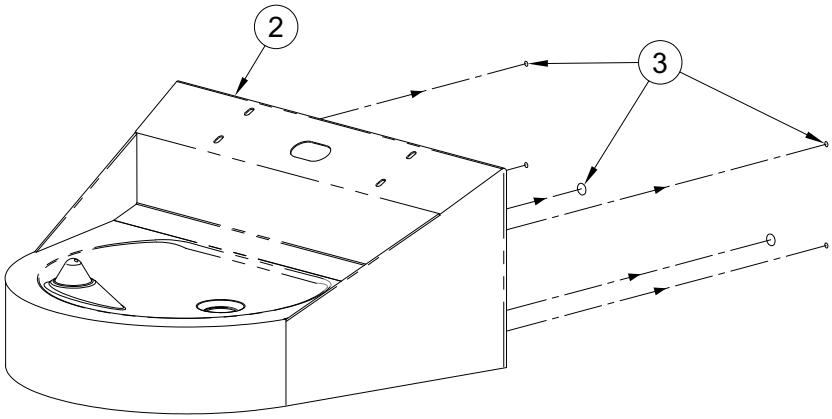
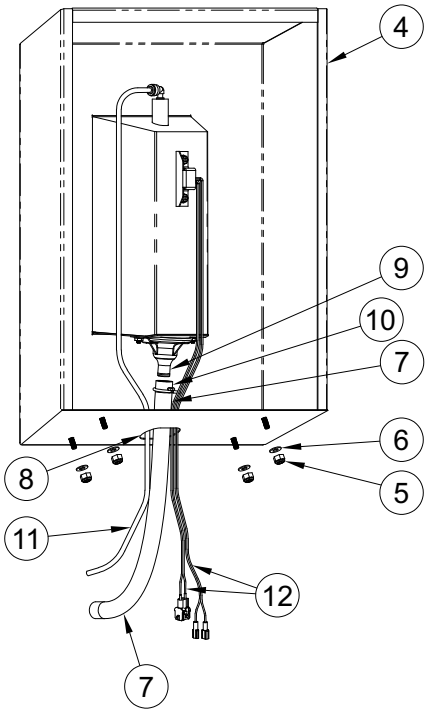
FIXTURE ANCHORING



1 Mount Bottle Filler Bracket ***1*** and Drinking Fountain Deck ***2*** to the wall using appropriate mounting and anchoring hardware ***3***, provided by installer.

HINT: It may be advantages to install deck trim such as faucets, soap dispensers or other accessories prior to wall mounting.





2 Prep the Bottle Filler Assembly ***4*** by removing the four (4) locknuts ***5***, washers ***6*** and setting them in a secure location. Insert bottle filler drain hose ***7*** through hole ***8*** at the bottom of bottle filler assembly ***4*** and connect to drain adapter ***9*** and secure with spring hose clamp ***10*** Feed bottle filler riser tube ***11*** and electrical wiring ***12*** through bottom hole ***8***.

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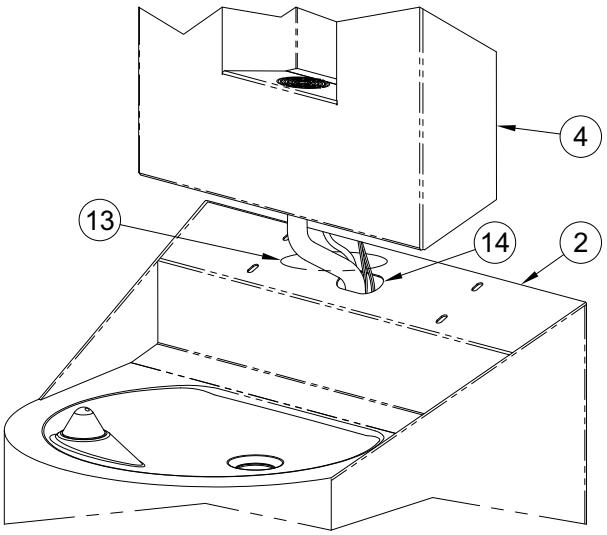
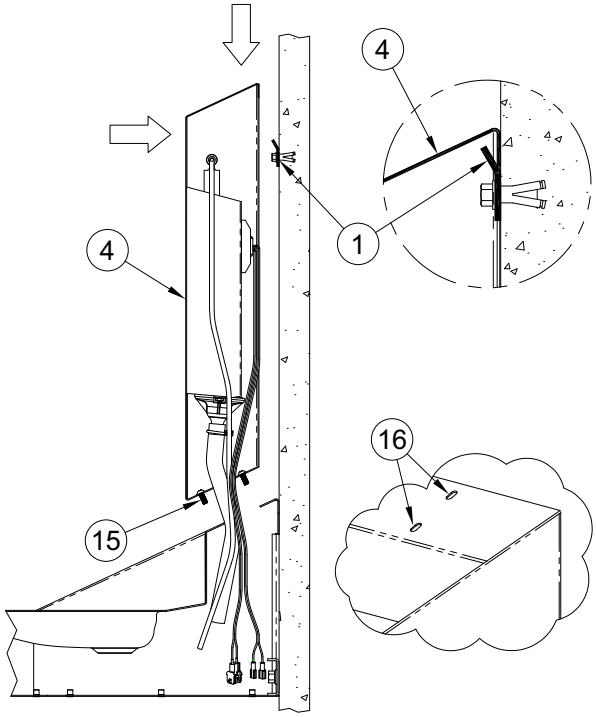
FIXTURE ASSEMBLY

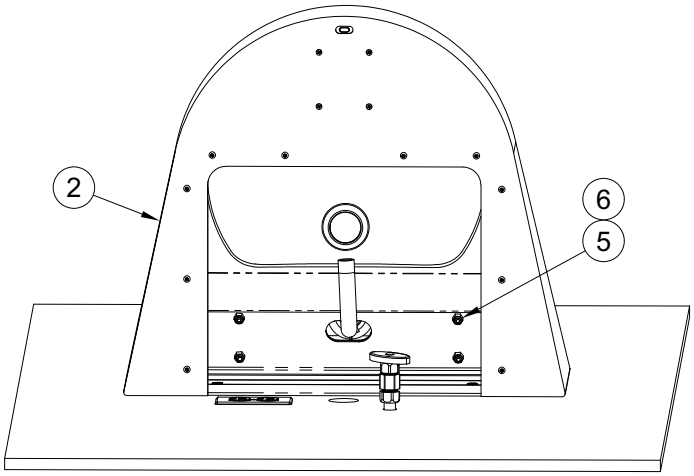
3 Feed Bottle Filler Waste Hose, Riser Tube and Electrical Wiring bundle ***13*** through fountain deck hole ***14***.





4 Push Bottle Filler Housing ***4*** against the wall. Slide it downward so it engages with wall bracket ***1*** and the four bolt ***15*** go into the deck slots ***16***.

5 Secure Bottle Filler ***4*** to Drinking Fountain Deck ***2*** using the four lock nuts ***5*** and washers ***6***.



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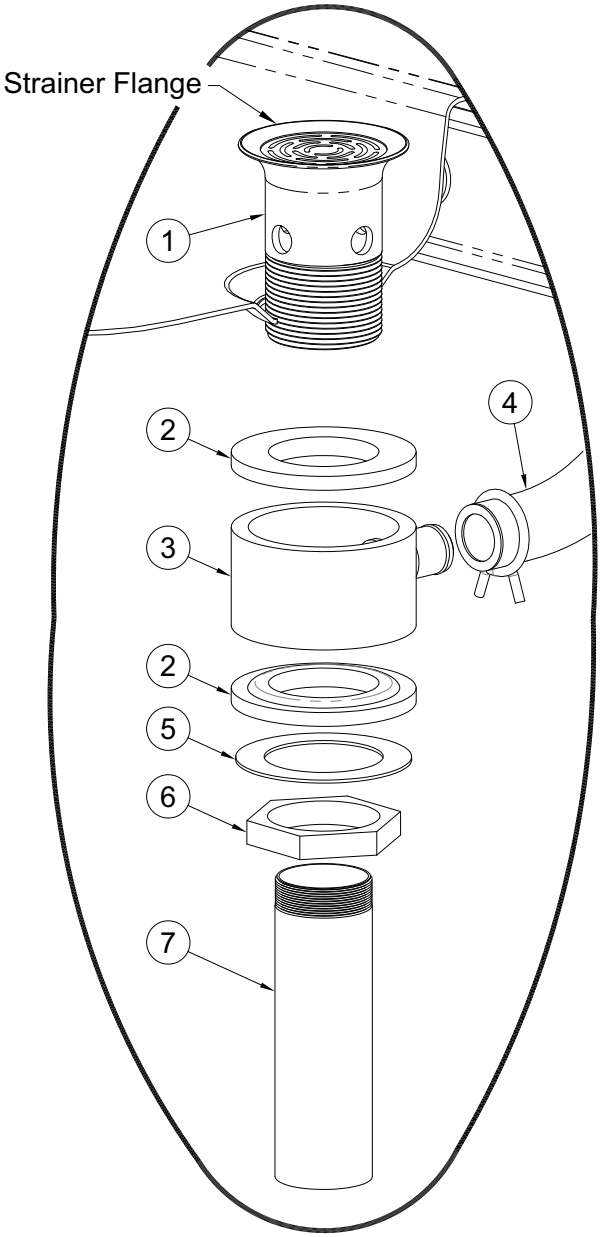
HINT: Teflon tape is recommended on all threaded waste and supply connections.



6 Install grid strainer ***1*** to basin using plumbers putty on underside of grid strainer flange. Insert rubber gasket ***2*** over the grid strainer ***1,*** then drain body collar ***3***, brass washer ***5*** and secure with chrome plated nut ***6***. Slide bottle filler drain hose ***4*** onto drain collar nipple ***3*** and secure with spring hose clamp. Screw 1-1/4" O.D. tailpiece ***7*** into bottom of grid strainer ***1***.

1. Strainer w/ 1-1/2" - 16 UNE Threads & 1-1/4"-27 UNI Threads
2. Rubber Gasket
3. Drain Collar Assembly
4. Bottle Filler Drain Hose With Spring Hose Clamp
5. Brass Washer
6. 1-1/2" - 16 UNI Rough Chrome Brass Nut
7. 1-1/4" - 27 UNE Tailpiece 4" Long

NOTE: Waste assembly may require field cutting and fitting by the installer.

7 Assemble waste piping using teflon tape on all threaded connections and make up waste connections to 1-1/2" P-trap.

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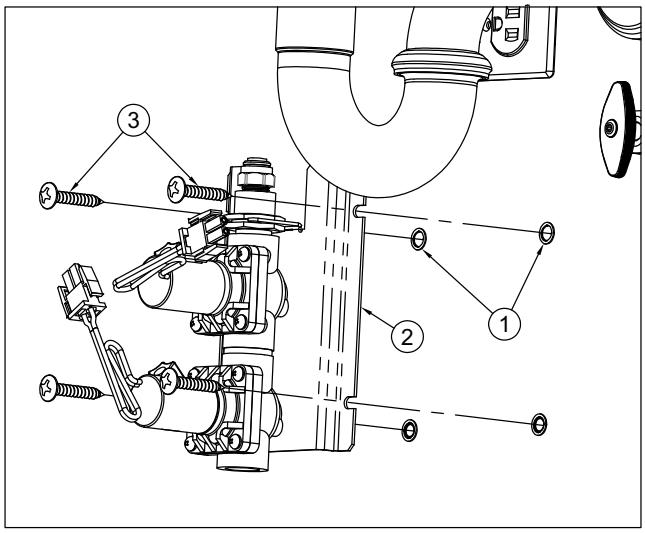
VALVE INSTALLATION

IMPORTANT

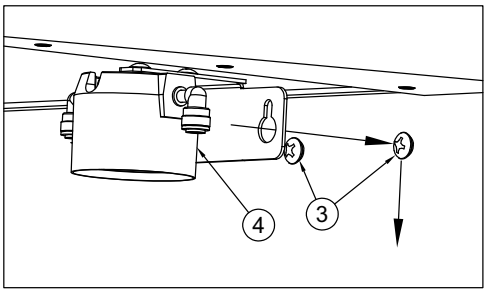
Before making up the supply connections, the supply lines must be flushed of all foreign material such as pipe dope, pipe chips, solder, sand, etc.



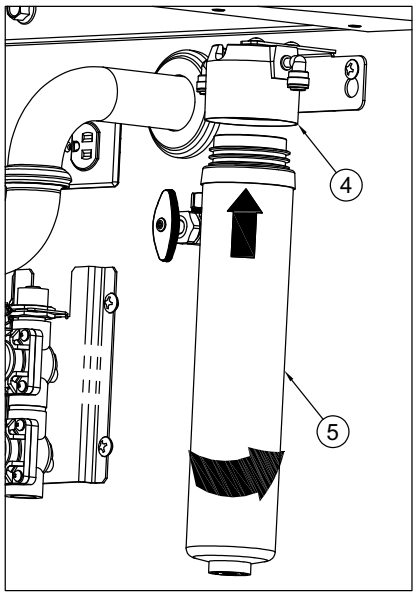
7 Install wall anchors ***1***, provided by installer, at Valve Plate dimensions on page (3). Secure Valve assembly ***2*** to wall using installer provided screws ***3***.

OPTIONAL FILTER INSTALLATION

HINT: It may be advantages to remove the filter from the filter head for easier installation, as shown.



8 With installer provided screw ***3*** not fully engaged, push Filter Head bracket ***4*** against the wall and push down onto screws ***3*** and secure bracket



9 With Filter Head Assembly ***4*** secured to the wall insert Filter ***5*** and turn clockwise to tighten.

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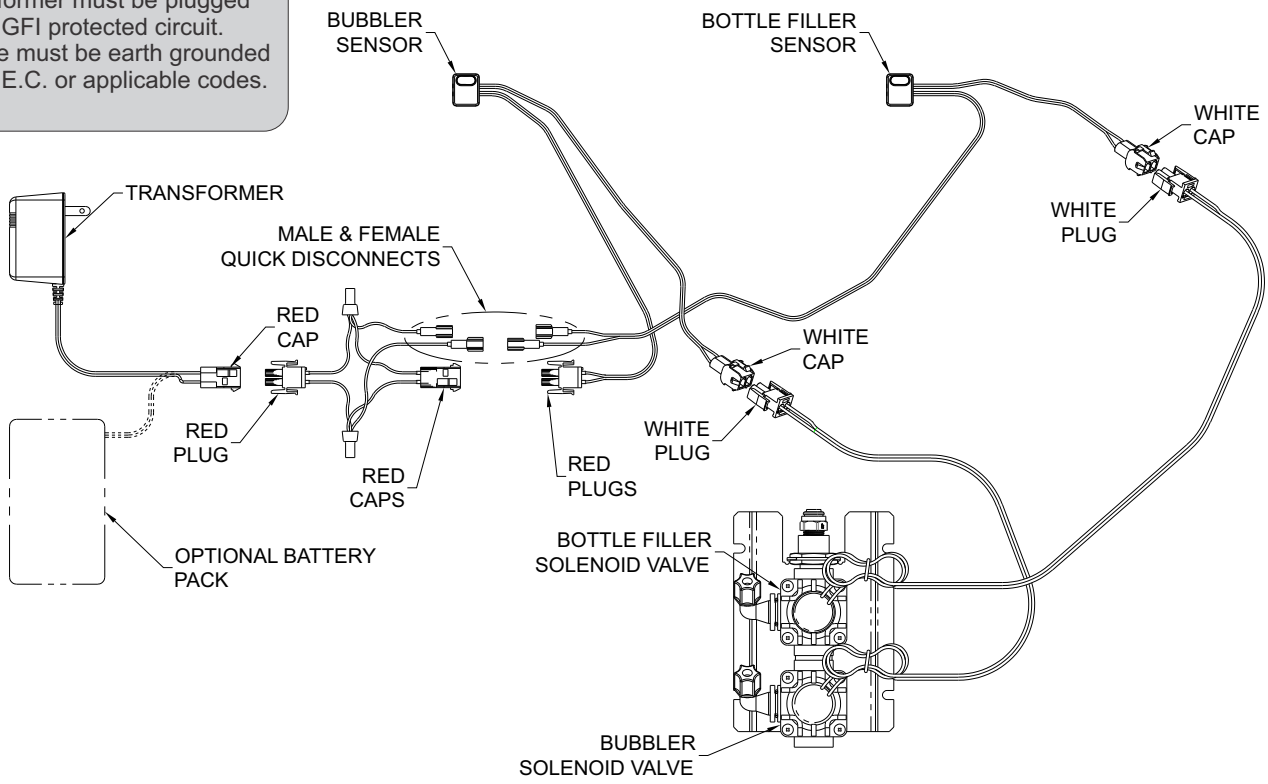
SENSOR OPERATION WIRING DIAGRAM;

IMPORTANT

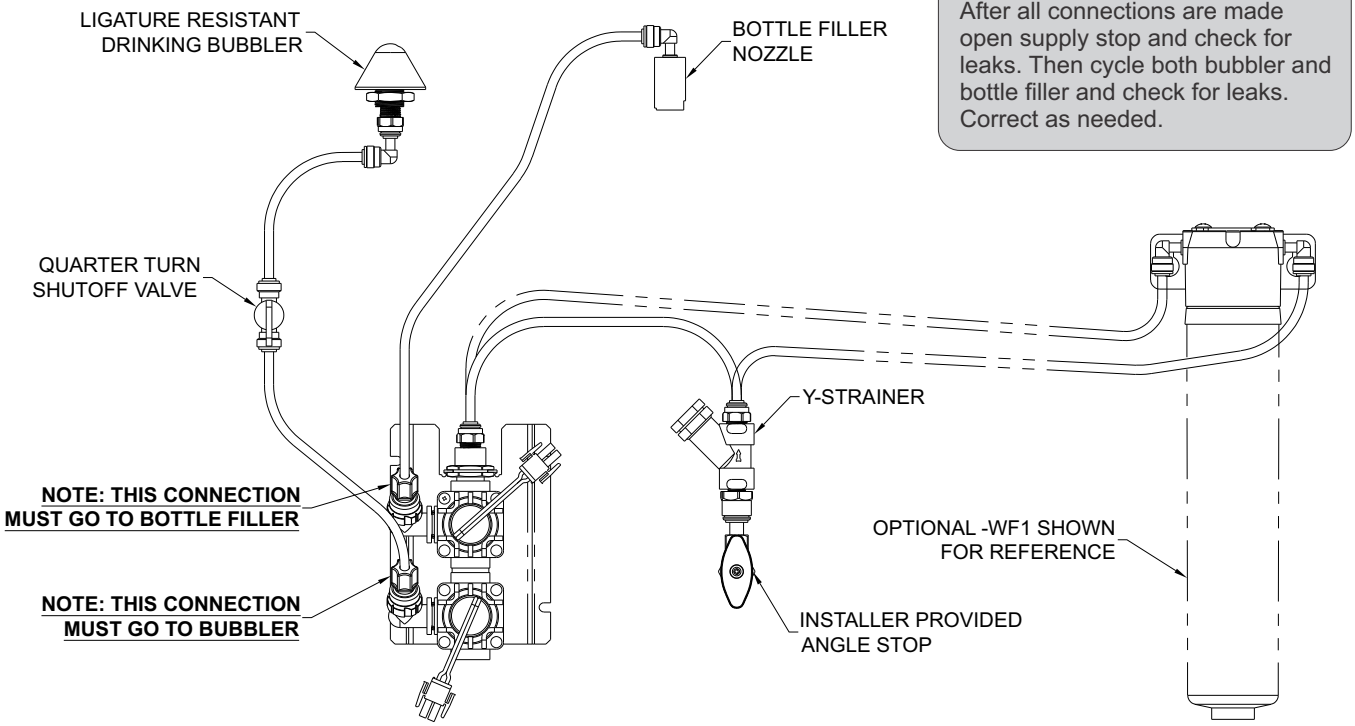
Transformer must be plugged into a GFI protected circuit. Fixture must be earth grounded per N.E.C. or applicable codes.



WATER PATH;

IMPORTANT

After all connections are made open supply stop and check for leaks. Then cycle both bubbler and bottle filler and check for leaks. Correct as needed.



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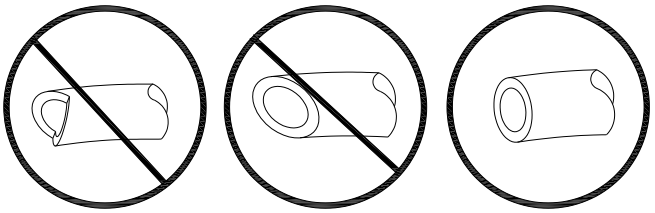
PUSH-IN FITTING INSTALLATION

NOTE: FITTINGS AND TUBE SHOULD BE KEPT CLEAN, BAGGED AND UNDAMAGED PRIOR TO INSTALLATION.

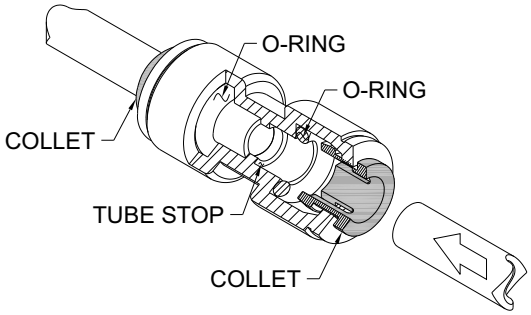
TO CUT TUBE:

Cut to fit length of 1/4" PE tubing and remove any burrs or sharp edges. Ensure that the outside diameter is free from score marks. Tube ends should be square.

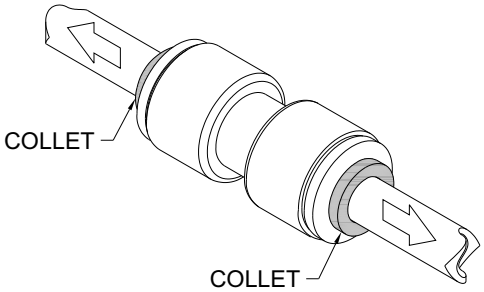


INSERTING THE TUBE:

1. Firmly and fully insert the tubing end into the push-in fitting up to the tube stop located approximately ½" deep.

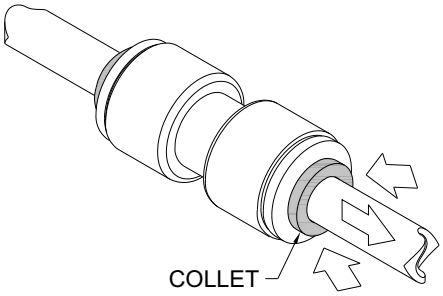


2. Pull on the fitted tubing to ensure it is secure. Tube should not come free from the fitting. Water test the connection assembly prior to leaving the site to ensure there are no leaks.



DISCONNECTING THE TUBE:

To disconnect the tube from the fitting ensure that the water line is depressurized. Push collet square towards the push-in fitting body and hold. While holding the collet in, pull on the PE tubing to remove from the push-in fitting.



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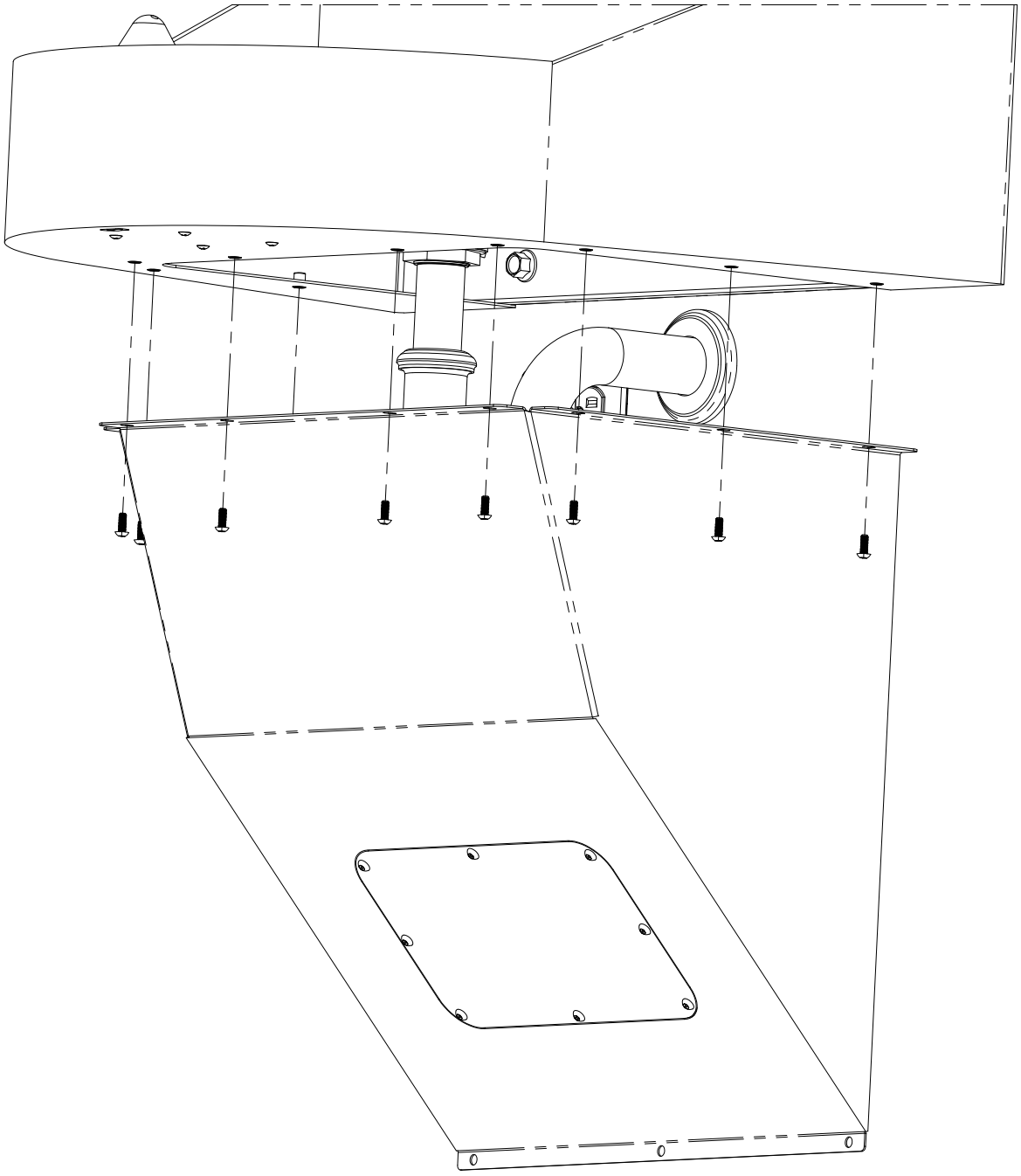
ACCESS PANEL INSTALLATION

IMPORTANT

BEFORE INSTALLING P-TRAP COVER ENSURE THERE ARE NO WATER LEAKS.



Install P-Trap cover using #10-32 x 1/2” center reject hex head screws provided. Secure bottom of P-Trap cover to wall with wall anchors and anchoring hardware provided by installer.

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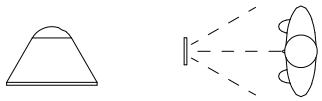
9 VOLT DC SENSOR OPERATED VALVES

NORMAL VALVE FUNCTION: 9 Volt DC sensor operated valve has flow time of 90 seconds maximum. To reactivate, the user must move out of and return to the sensing area.

CONDITION:

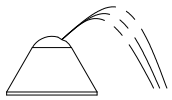
WATER DOES NOT FLOW



INDICATORS:	*PROBABLE CAUSE:*	*SOLUTION:*
Sensor flashes continuously every two seconds when hands are within range.	- Low battery warning.	- Replace battery.
Sensor does not flash when the users hands are within range.	- Circuit breaker tripped.	- Reset circuit breaker.
	- Battery completely used up.	- Replace battery.
	- Defective 9VDC transformer.	- Replace transformer.
	- Transformer polarity crossed.	- Replace transformer. (Sensor may be damaged & need replacement.)
	- Unit is in "Security Mode" after 90 seconds of constant detection.	- Remove sources of detection. Wait 30 seconds before checking.
	- Range is too short.	- Increase range.
	- Range is too long.	- Decrease range and wait 30 seconds.
	- Sensor is picking up a highly reflective surface.	- Eliminate cause of reflection. Wait 30 seconds before checking.
	- Defective sensor.	- Replace sensor.
Sensor flashes once when the users hands are within range.	- Stops or water main closed.	- Open stops or water main.
	- Bad sensor to solenoid connection.	- Ensure wires make proper contact.
	- Debris or scale in solenoid assembly.	- Remove solenoid, pull out plunger and spring, and clean with scale remover solution or pressurized air.
	- Debris or scale in diaphragm.	- Remove diaphragm and clean.
	- Debris or scale in strainer.	- Remove strainer and clean.

CONDITION:

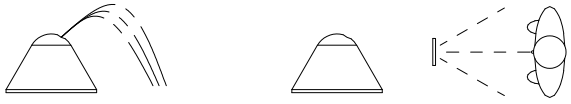
WATER CONTINUOUSLY



INDICATORS:	*PROBABLE CAUSE:*	*SOLUTION:*
Sensor flashes when users hands are within range.	- Debris or scale in diaphragm.	- Remove diaphragm and clean.
	- Diaphragm is defective or torn.	- Replace diaphragm.
Sensor does not flash when the users hands are within range.	- Sensor is dirty or covered.	- Clean or uncover sensor and wait 30 seconds.
	- Range too long or Highly Reflective Surface, Sunlight, Bright Lights, etc. are Triggering Sensor.	- Decrease range and wait 30 seconds.
		- Eliminate cause of reflection or Correct Lighting Correct Lighting Problem.

CONDITION:

WATER FLOWS CONTINUOUSLY BUT STOPS WHEN HANDS ARE WITHIN RANGE



INDICATORS:	*PROBABLE CAUSE:*	*SOLUTION:*
Water runs continuously when sensor not activated. Sensor flashes when hands are within range and water shuts off.	- Solenoid polarity crossed.	- Disconnect solenoid and reverse polarity.

MINIMUM / MAXIMUM WATER PRESSURE (PSI) 30 / 100. MAXIMUM WATER TEMPERATURE 130°F.

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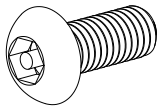
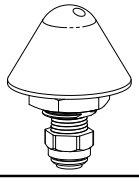
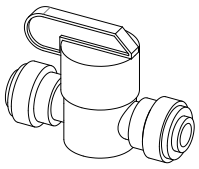
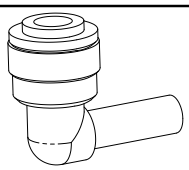
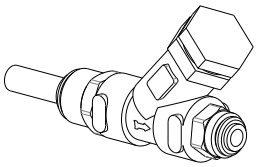
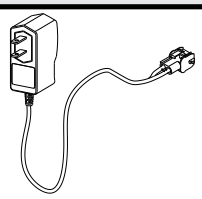
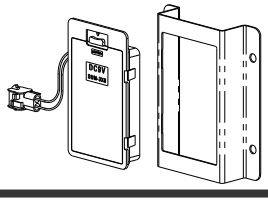
COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
HARDWARE		
#10-32 x 1/2" UNF White Button Head Screw With Center Reject Pin	0112-044-000	
1/4"-20 UNC Nylon Locknut	0304-018-000	
PIPING COMPONENTS		
Ligature Resistant Bubbler	4854-020-001	
1/4" O.D. Tube Push-In 1/4 Turn Valve	7000-420-000	
1/4" O.D Push-In x 1/4" O.D. Stem Elbow	1895-709-000	
Y-STRAINER	7000-021-001	
ELECTRONIC HARDWARE		
9VDC Plug-In Transformer	0710-735-001	
9 VDC Battery-Pak Assy (6 AA Batteries Not Included) Battery-Pak Mounting Bracket	0710-358-001 6155-013-199	

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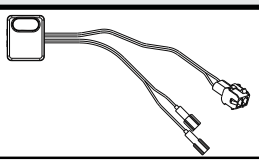
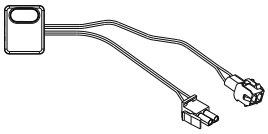
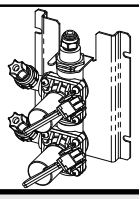
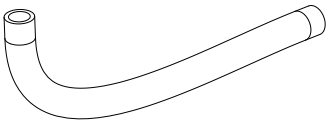
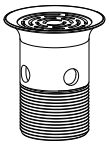
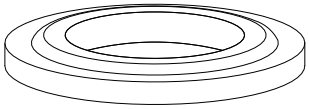
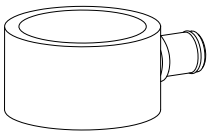
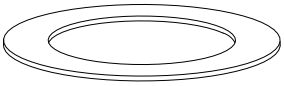
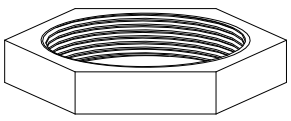
COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
ELECTRONIC HARDWARE (Continued)		
Bottle Filler Nano Sensor Assembly	2563-380-001	
Drinking Fountain Nano Senor Assembly	2563-390-001	
2-Station Electronic Valve Assembly	GVL00B19-001	
WASTE COMPONENTS		
Bottle Filler Drain Hose	GVL00B02-199	
Ligature Resistant Strainer	KYSCY002-001	
Rubber Gasket	4935-011-000	
Drain Collar	GVL00B01-003	
BRASS WASHER	4950-007-000	
Spring Hose Clamp	7003-184-000	
Strainer Hex Nut	4950-006-199	

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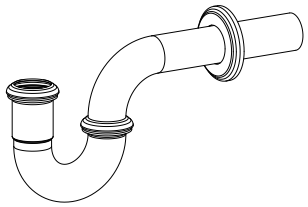
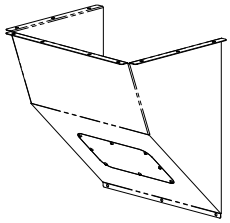
COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
WASTE COMPONENTS (Continue)		
1-1/2” O.D. Chrome Plated P-Trap	4953-001-000	
ENCLOSURES		
P-Trap Cover	GVL00B13-001	

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