



INSTALLATION, OPERATIONS & MAINTENANCE MANUAL

Please visit www.acorneng.com for most current specifications.

MERIDIAN® 3791-LO

MERIDIAN® MODEL 3791-LO

MODEL# 3791-LO-1-SO-DV
LEFT SIDE OFF-SET
CONFIGURATION

CORTERRA®
ADA-COMPLIANT
KURVE SINGLE BASIN



TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER: 1.800.591.9360

Technical Assistance E-mail: Fieldservice@acorneng.com

Please refer to the Link or QR code provided.

For Cleaning & Care Guide:

<https://www.acorneng.com/uploads/fileLibrary/9900-008-001.pdf>



REQUIRED ITEMS FOR INSTALLATION - NOT SUPPLIED

- ✂ Chalk Line
- ✂ Hammer
- ✂ Carpenters Level
- ✂ 1/2" NPS Supply Angle Stops And 1/2" NPS Supply Flex Hose(s)
- ✂ 7/16" Hex Wrench
- ✂ 1/4" Slotted Tip Screwdriver For Metering Adjustment
- ✂ Plumbers Putty
- ✂ Teflon Tape
- ✂ Fixture Wall Anchors and Anchoring Hardware (and Appropriate Tools) - For 3/8" Punching (13 Count)
- ✂ Driver For 1/4" Shank Bit - For Center Reject Bit

ACORN ENGINEERING COMPANY
P.O. BOX 3527 • CITY OF INDUSTRY, CA 91744 U.S.A.
TOLL FREE 800-488-8999 :: LOCAL 626-336-4561
www.acorneng.com

Part #: 9927-140-001

REVISED B: 10/5/2023

ACORN ENGINEERING COMPANY

ACORN ENGINEERING FIELD SERVICE
TOLL FREE 800-743-8259 • LOCAL 626-855-4866



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.

Single Temp 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). Maximum outlet temperature is recommended is 105°F (40.6°C). Valve assembly must be drained prior to being subjected to freezing temperatures. A checkstop is provided with this valve assembly.

T/P Mixing Valve Assembly: Recommended working water pressure is 30 psi (2.07 bars) minimum to 125 psi (8.62 bars) maximum. Maximum hot water temperature is 180°F (82°C). Temperature adjustment range is 85-115°F (29-46°C). Valve assembly must be drained prior to being subjected to freezing temperatures. The valve assembly has checks integral to the inlets however, angle stops are to be provided by the installer.

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.

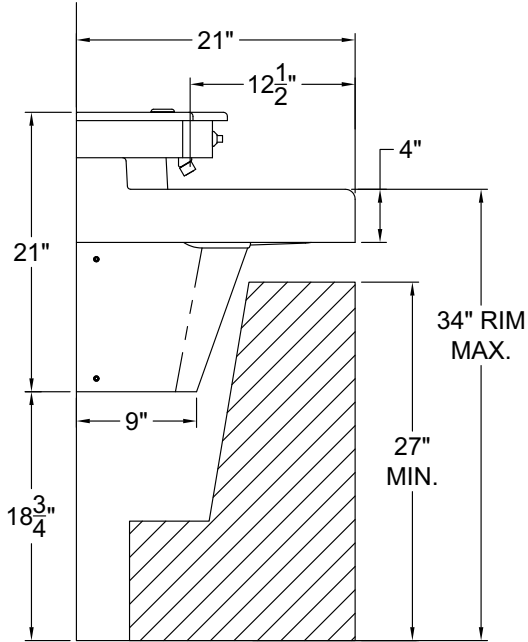
Provide 110-120VAC/60Hz/3A (MAX) electrical receptacle for factory supplied 120VAC/9VDC, 100mA plug-in transformer.

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

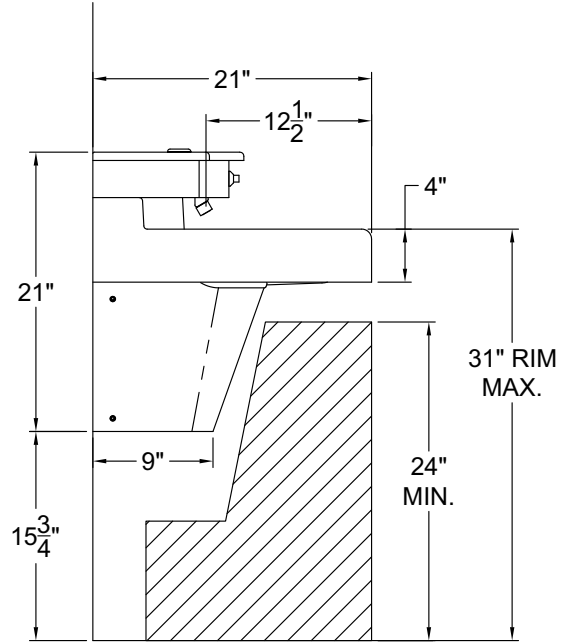


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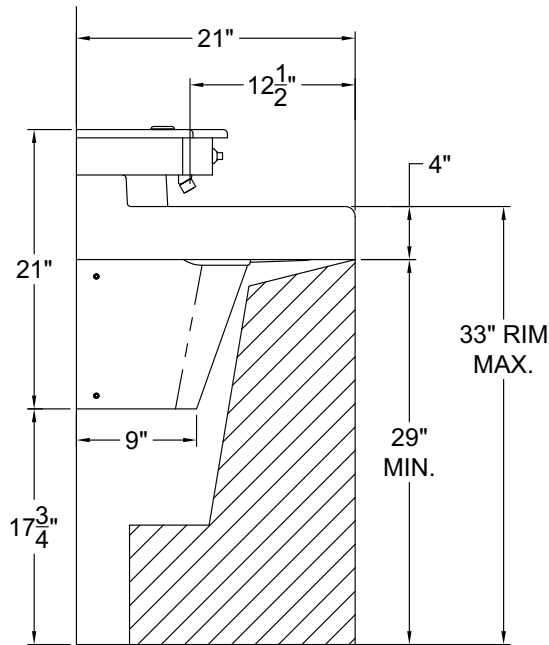
ACCESSIBILITY OVERVIEW



**ADA
Adult**



**ADA ages
6 thru 12**



OBC

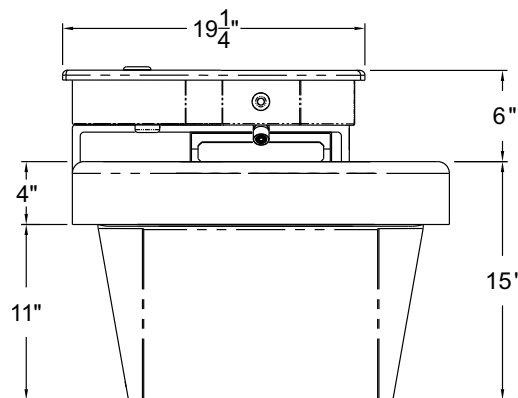
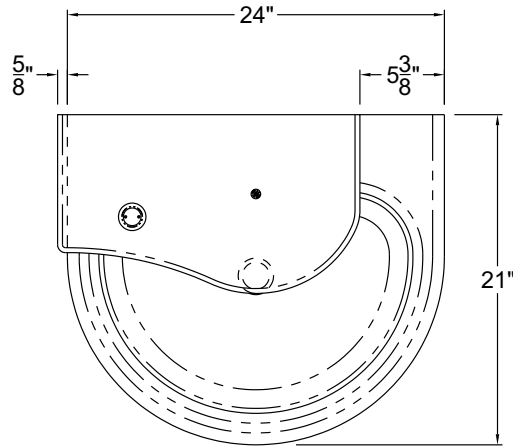
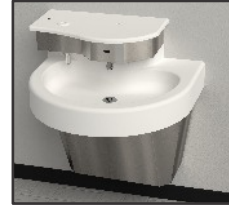


INSTALLATION, OPERATIONS & MAINTENANCE MANUAL

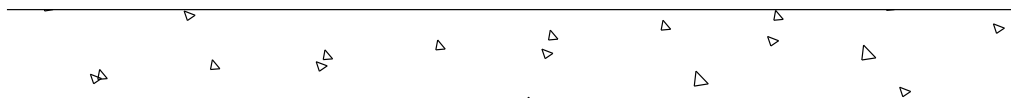
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DIMENSIONAL DATA



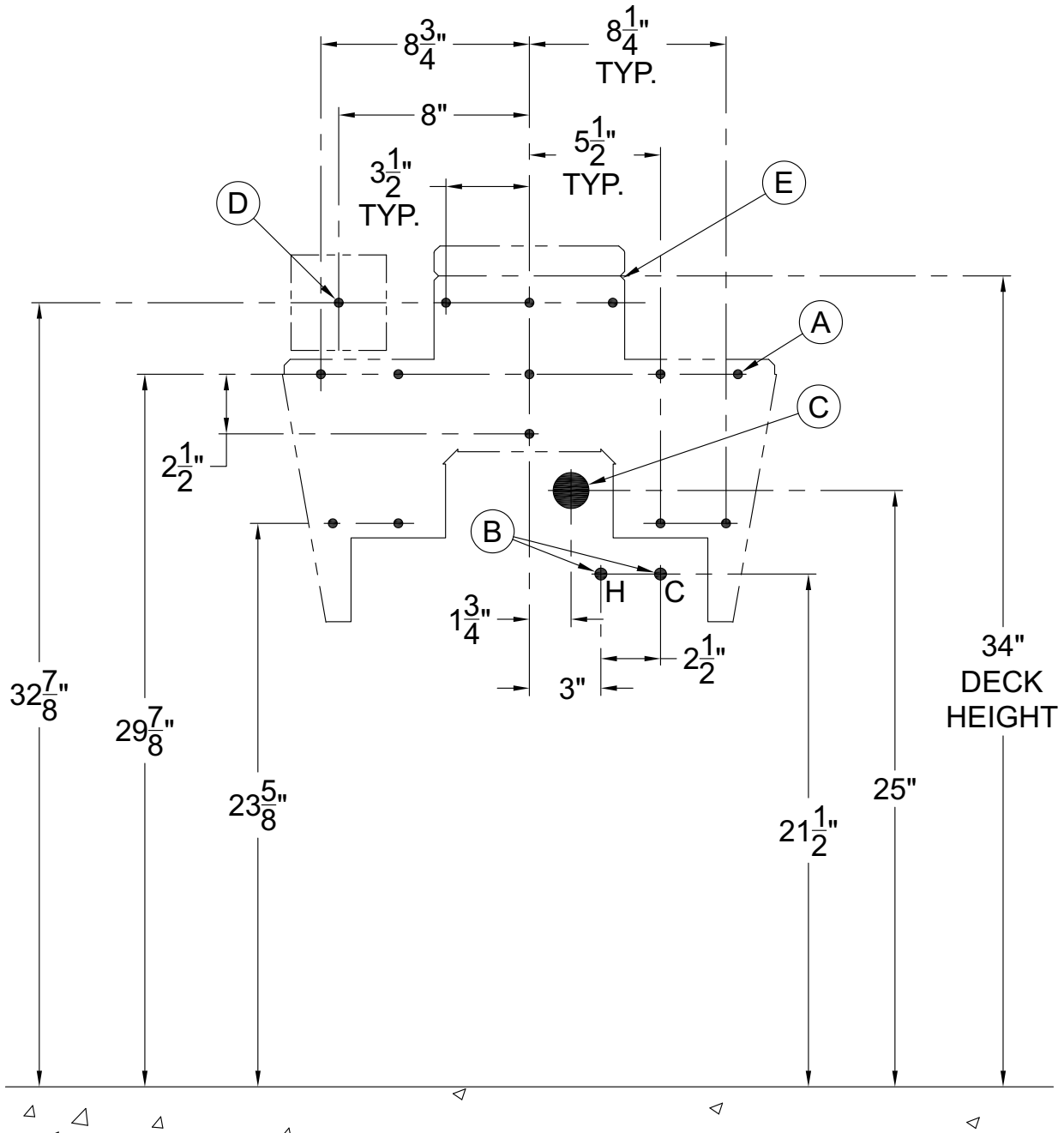
FIXTURE WEIGHT: 110LBS.





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ROUGH-IN DIMENSIONS -ADA (Adult)

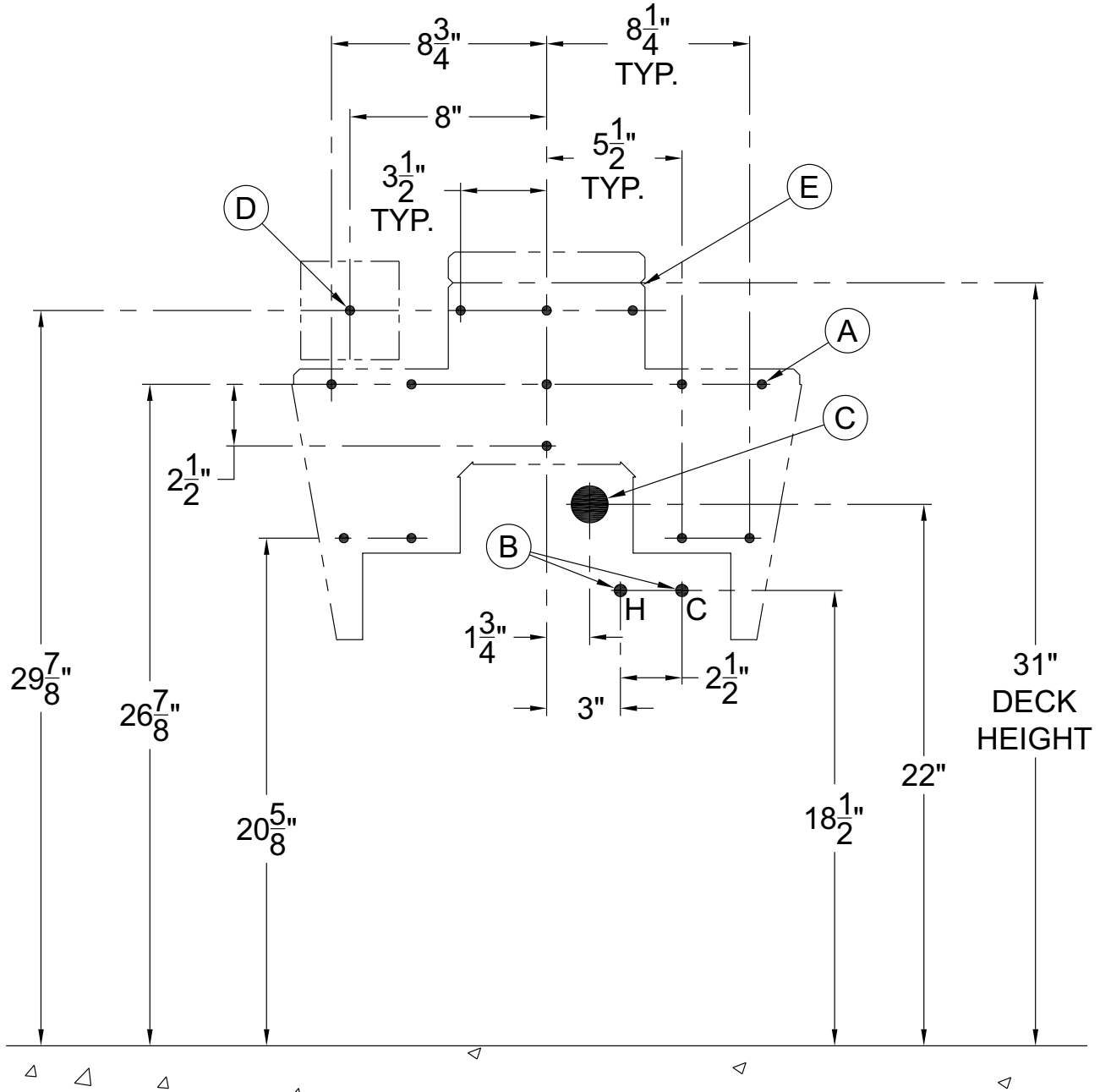


- Ⓐ - 3/8" Diameter Mounting Holes, For Anchoring Points, 13 Places.
- Ⓑ -Supply Stub-Outs with Stops for Valve 1/2" NPT Hot & Cold Supply Inlets.
- Ⓒ -Waste Outlet for 1-1/2" O.D. P-Trap.
- Ⓓ -120VAC, 60 Hz, 3A (Max.) GFCI Protected, Electrical Receptacle.
- Ⓔ -Frame "V" Notch.



Please visit www.acorneng.com for most current specifications.

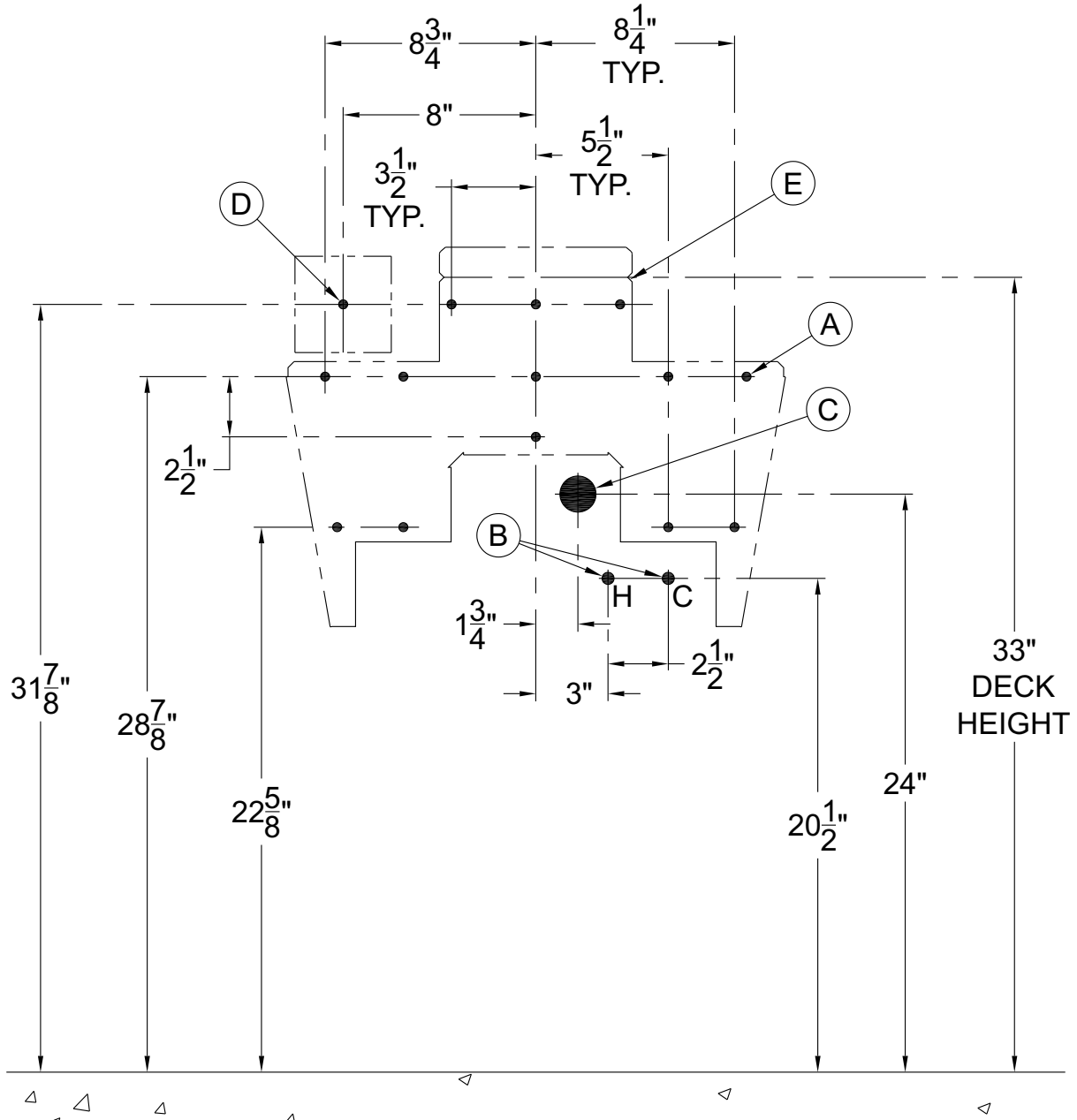
ROUGH-IN DIMENSIONS -ADA
AGES 6 THRU 12 YEARS



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ROUGH-IN DIMENSIONS -OBC ONTARIO BUILDING CODE



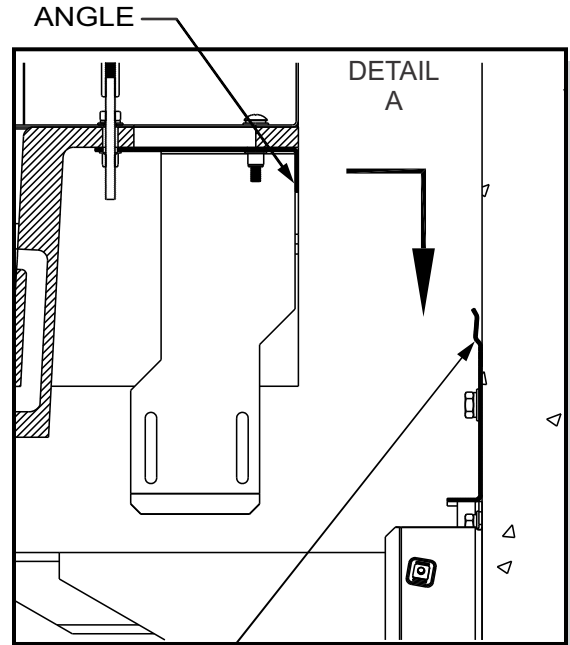
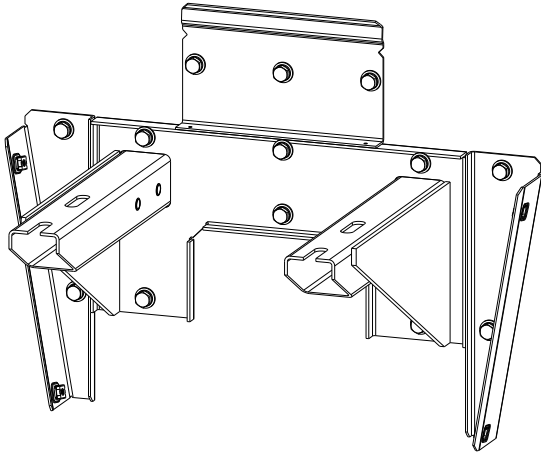
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FIXTURE ANCHORING

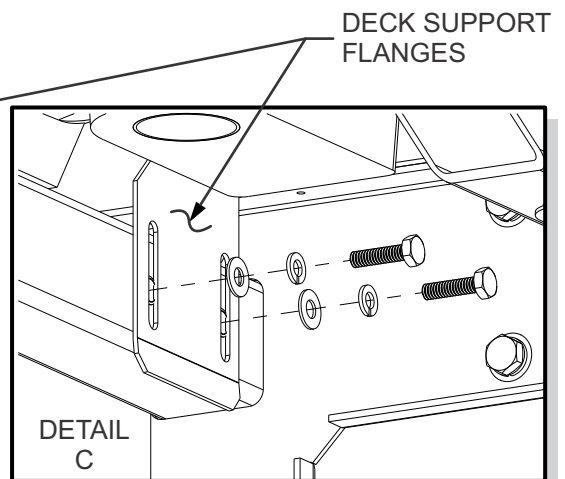
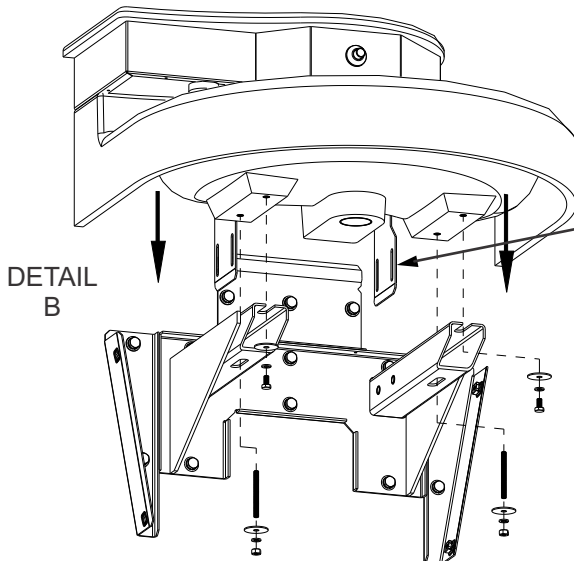
1 Disassemble access panels and deck assembly from frame. Anchor frame to wall using 3/8" mounting hardware by others.



2 -See **DETAIL A**. Place deck assembly on frame making sure angle engages behind frame joggle.

-See **DETAIL B**. Assemble underside of bowls to frame with 1/4-20 x 1/2" long hex bolts and 1/4-20 x 2-1/2" long threaded studs, 1/4" lock washers, fender washers and 1/4-20 hex nuts provided.

-See **DETAIL C**. Assemble deck support flanges to outside of frame using 1/4-20 x 1" long hex bolts, 1/4" lock washers and 1/4" flat washers provided.





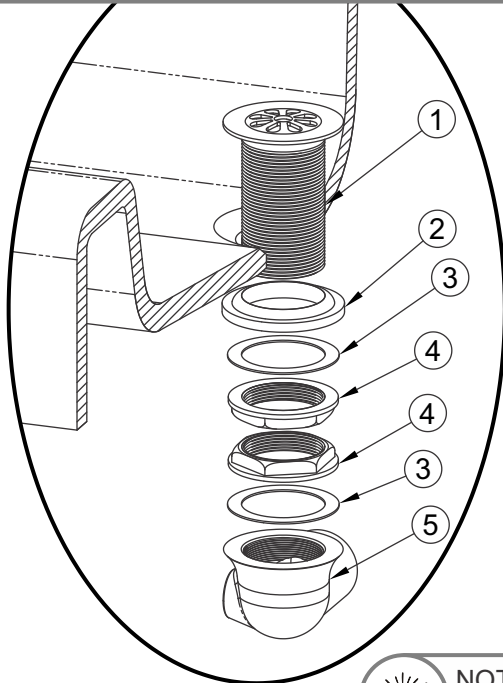
INSTALLATION, OPERATIONS & MAINTENANCE MANUAL

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

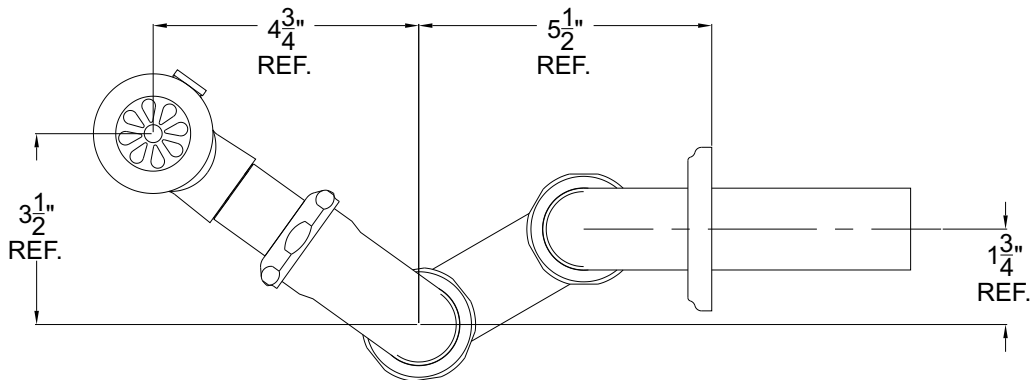


3 Install grid strainer and close elbow to bowl using plumber's putty.

- ① Grid Strainer w/ 1-1/2" -16 UNE Threads
- ② Rubber Gasket
- ③ Flat Fiber Washer
- ④ 1-1/2" -16 UNI Rough Chrome Brass Jam Nut
- ⑤ 1-1/2"-16 x 1-1/4" UNI Close Ell with 3/8" NPT Clean-Out Plug



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



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



VALVE INSTALLATION & ADJUSTMENT

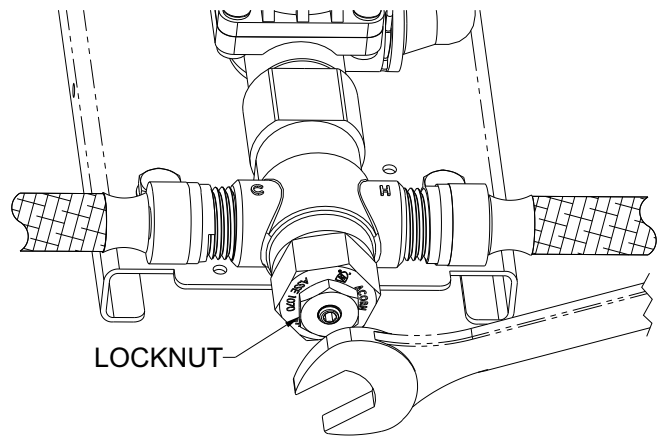
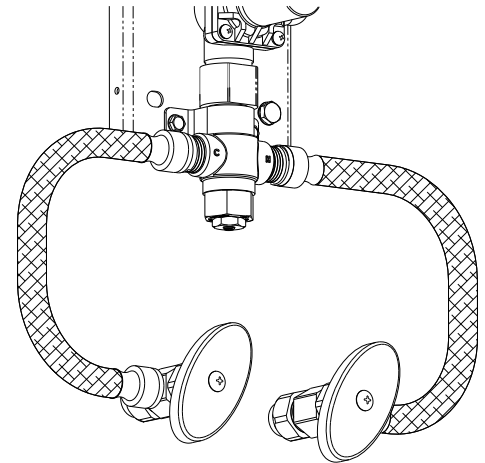
Valve Assembly Installation:


NOTE: Installation should be in accordance with accepted plumbing practices.

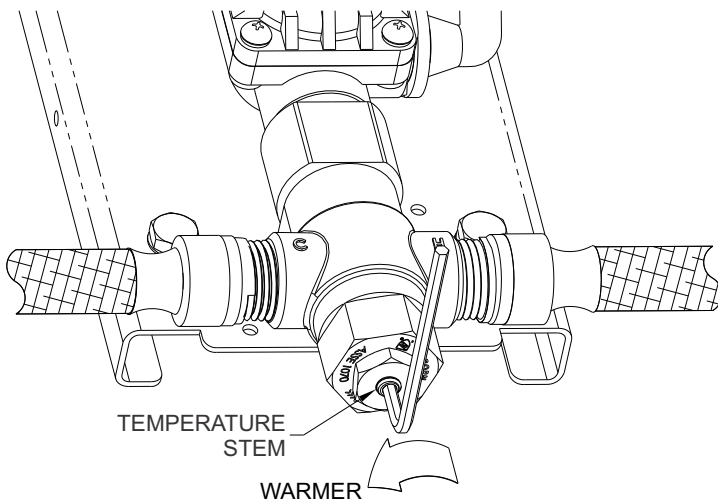
- 1) Locate suitable place for mounting the valve assembly. Valve assembly should be accessible for service and adjustment and as close to the point-of-use as possible. Wall anchors and anchoring hardware, for Ø3/8" mounting holes, provided by installer.
- 2) Connect hot and cold water to supply valve using 1/2" NPTE connections.
- 3) Connect outlet of tempering valve to spout(s) using 1/4" O.D. tube connections provided.
- 4) Turn on hot and cold water supplies. If any leaks are observed, hand tighten connections as necessary to stop leaks before proceeding.
- 5) Turn on fixture and allow water to flow for 2 minutes. Measure water temperature at outlet. If water is not at desired temperature, adjust as necessary.



Flush supply lines of all foreign material such as pipe dope, pipe chips, solder, sand etc. before making up supply connections.



 HINT: Angle stops are recommended and is the responsibility of the installer.



Temperature Adjustment:

- 1) Loosen locknut.
- 2) Turn on fixture and run water for at least 2 minutes. Allow supply temperature to stabilize.
- 3) Turn temperature stem counter-clockwise for hotter or clockwise for colder outlet temperature.
- 4) Tighten locknut to prevent accidental or unauthorized temperature adjustment.
- 5) Re-check outlet temperature.



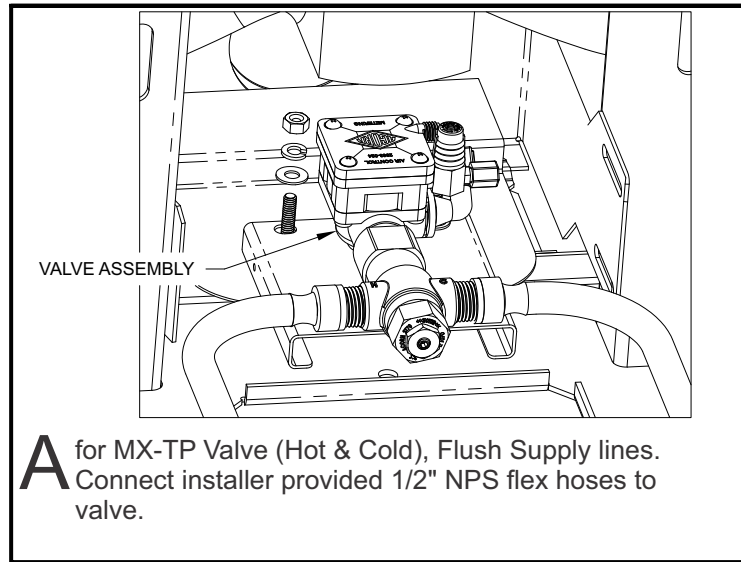
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VALVE INSTALLATION

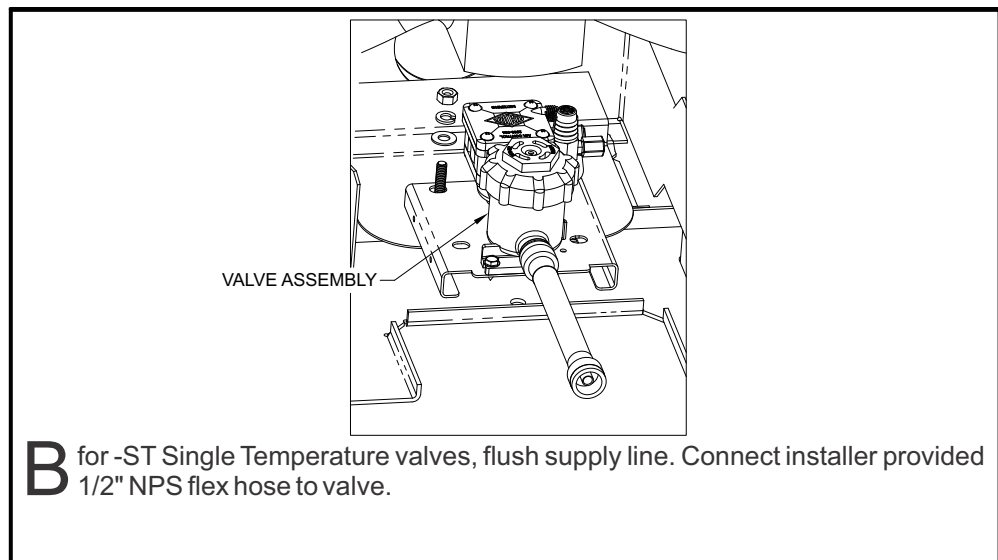
! IMPORTANT

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.

MX-TP VALVE (-H HAND OPERATED SHOWN)



-ST SINGLE TEMPERATURE VALVE (-H HAND OPERATED SHOWN)



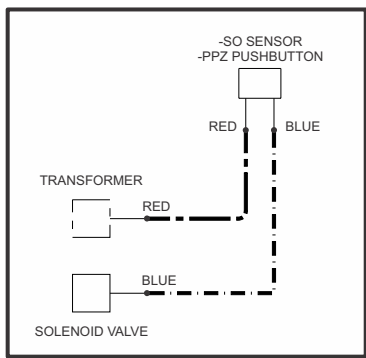
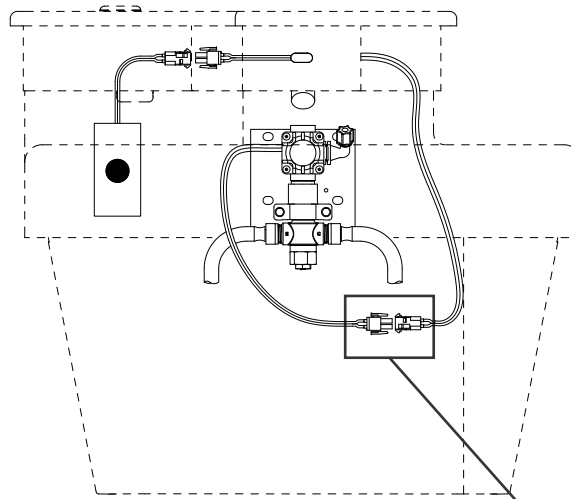


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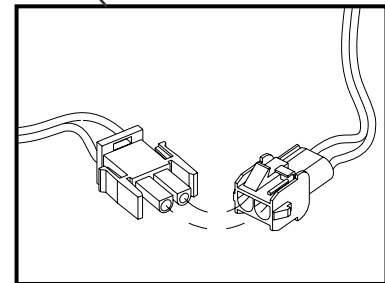
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SENSOR OPERATION & CONNECTIONS

-SO Sensor Operation or -PPZ Programmable Piezo Pushbutton



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





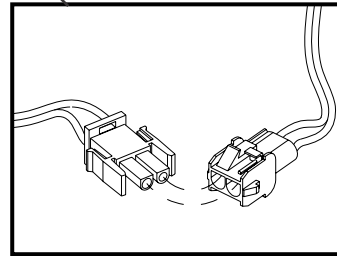
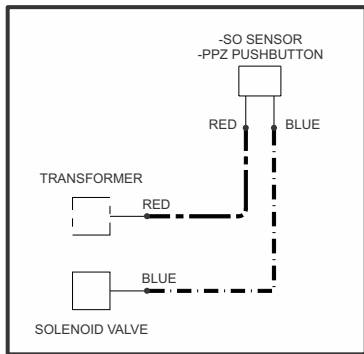
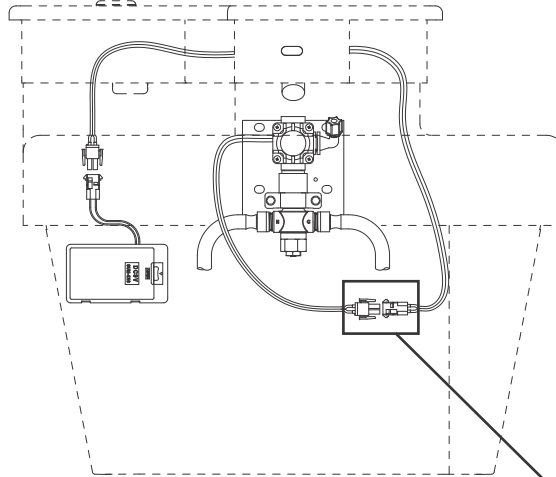
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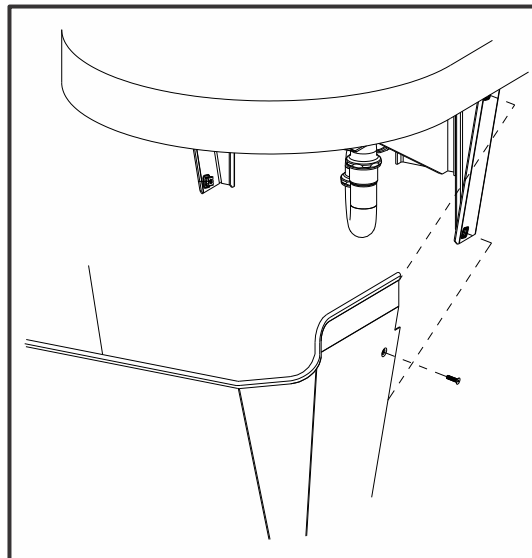
SENSOR OPERATION & CONNECTIONS -BATTERY OP

-SO-BAT

Sensor Operation Battery Powered



Acorn does not provide batteries for -BAT units. Each Pack requires (6) AA batteries.



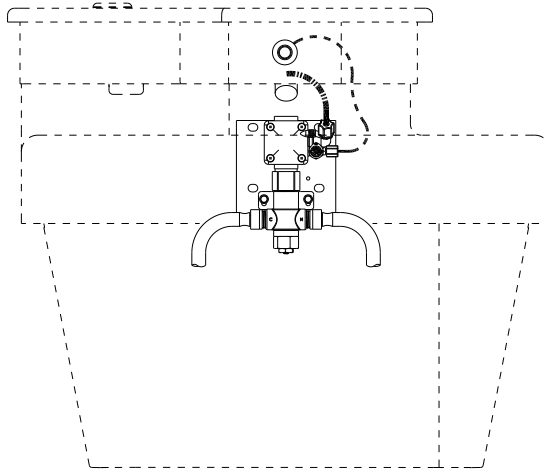
To service or install batteries remove access panel by removing (4) 10-32 x 3/4" screws from front of fixture using allen head bit provided (socket & driver by others). Replace access panel when finished.



Please visit www.acorneng.com for most current specifications.

HAND OPERATION & CONNECTIONS

-H Hand Operated

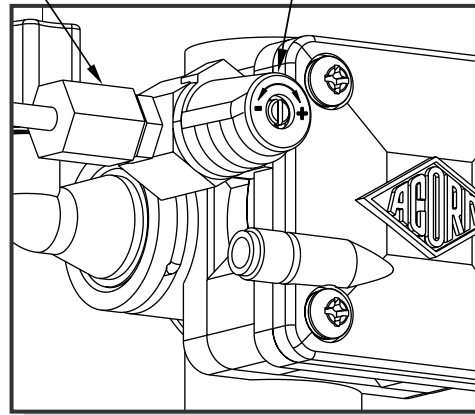


----- 1/8" O.D. AIR TUBE
----- 1/4" O.D. WATER LINE

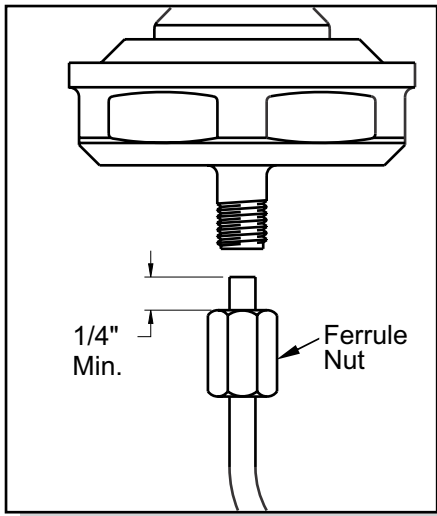
Ferrule Nut

Timing Screw
To adjust timing,
turn timing screw.

! IMPORTANT
Do not over tighten ferrule nuts.



Turn timing screw clockwise to increase timing.



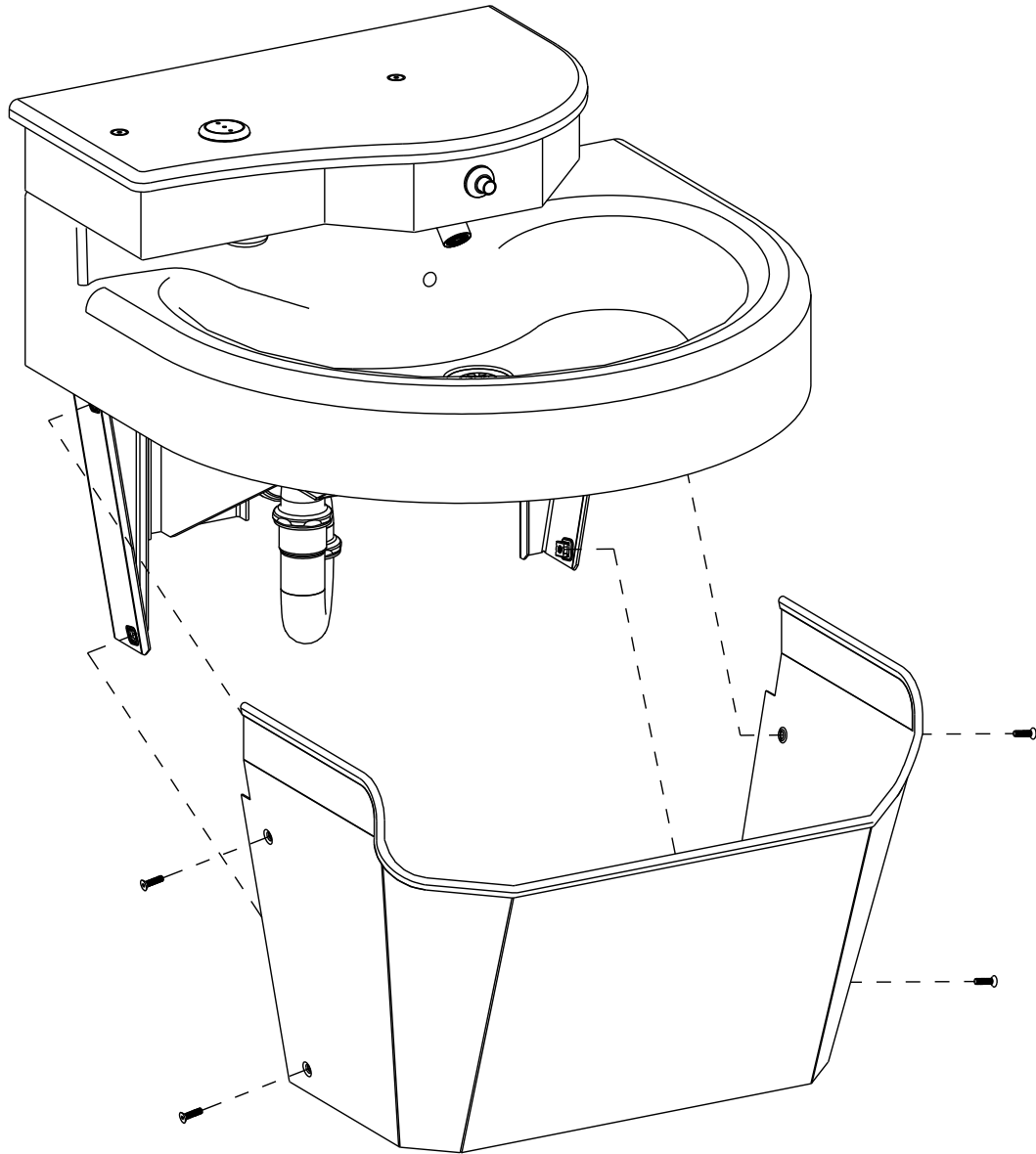
! IMPORTANT
Leave a minimum 1/4" of polyethylene tubing through the Ferrule Nut on the pushbutton assembly. This is necessary to ensure proper tubing connection.



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MERIDIAN® 3791-LO

ACCESS PANEL INSTALLATION



Install front and side access panels using 10-32 x 3/4" center reject hex head screws provided.



-DV SOAP OPTION RETRO-FIT & INSTALLATION

!WARNING Some soaps contain corrosive additives that can cause rust in soap dispensers. Acorn Engineering Company recommends user/ maintenance personnel review MSDS reports of soap and possible corrosive additives noted.

Do not exceed the capacity of the soap tank. Overfilling may result in spilling and pooling of soap solution within the sprayhead enclosure and outside the soap tank.

1 Remove top cover from unit. To remove cover, use Allen head bit provided and unscrew 10-32 x 3/4" long vandal resistant fasteners shown. Hex bit driver is installer provided.

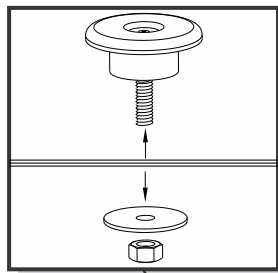
2 Remove Corterra plug from top cover and soap access plug from bottom of sprayhead enclosure.

3 Position and install soap tank in sprayhead enclosure as shown and install soap dispenser by aligning dispenser with drain adapter and fixing with set screws as shown

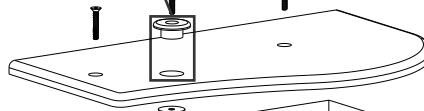
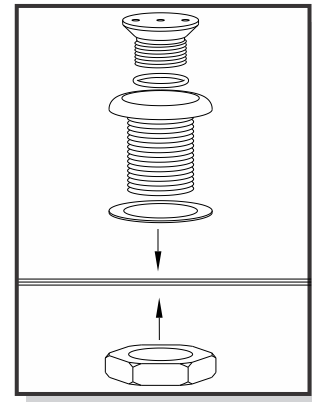
4 Install soap filler assembly to top cover and replace.

5 Fill soap tank by removing filler cap and pouring soap directly into tank. Do NOT overfill.

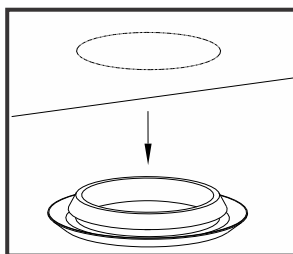
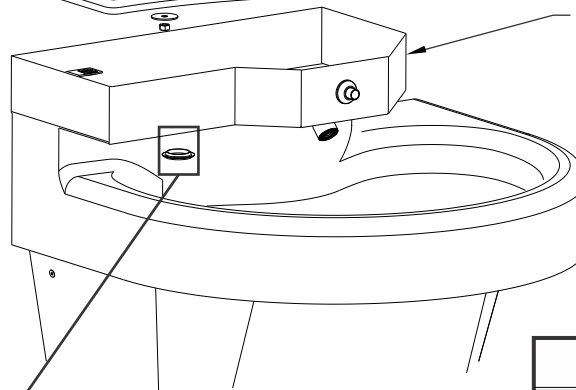
Remove Corterra Plug



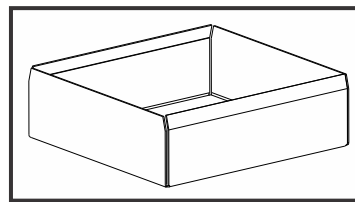
Install soap filler



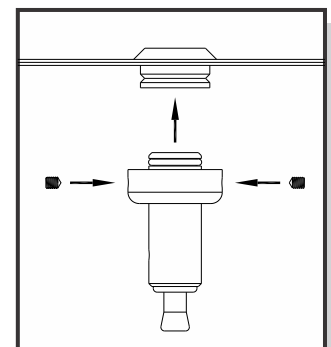
Sprayhead Enclosure



Remove Access Plug



Install Soap Tank



Install soap dispenser



NOTE: Soap Tank Capacity = 0.5 Gallons



Programable Piezo Pushbutton Programming Instructions (Flow Time Adjustment)

The Button is factory set an 8 sec. timing cycle, if an 8 sec. cycle is adequate, then **no** programming adjustment is required.



NOTE: Read the entire document before trying to program the piezo pushbutton.

THE TIME SETTINGS PROGRAM USES 3 DIFFERENT TIMING MODES:

- **1 second timing mode:** Each push of the button adds 1 second to the total timing cycle.
- **5 second timing mode:** Each push of the button adds 5 seconds to the total timing cycle.
- **20 second timing mode:** Each push of the button adds 20 seconds to the total timing cycle.

To program the piezo pushbutton, you will need to be able to see the back of the piezo pushbutton.

Prevision must be made to access the back of the piezo pushbutton. There is an LED on the back of the piezo pushbutton under a layer of transparent epoxy, used as a programming indicator light.



NOTE: This programming procedure moves along rapidly, there is only about 2 or 3 seconds between programming operations.

In order to start the programming the piezo pushbutton, the button must be powered down. Disconnect the red power cable and wait 20 seconds, then reconnect the red power cable.

As soon as the cable is reconnected the LED will start flashing, it will flash 4 times, then stays on for 3 seconds. During the 3 second period, push the piezo button once, the LED will go out, now you are in the **1 sec timing mode** and each time the button is pushed the LED will flash, adding 1 sec to the total timing cycle.

To move on to the **5 sec timing mode**, pause and wait for the LED to flash 2 times, now you are in the 5 sec timing mode. Each time the button is pushed the LED will flash, adding 5 sec to the total timing cycle.

To move on to the **20 sec timing mode**, pause and wait for the LED to flash 3 times, now you are in the 20 sec timing mode and each time the button is pushed the LED will flash, adding 20 sec to the total timing cycle. After programing is complete, pause and wait for the LED to flash 4 times and then 5 times, which completes the programming.

- When a **timing mode is not required** then **do not** push the button and wait for the next timing mode.
- Each timing mode (1 sec, 5 sec or 20 sec timing mode) can be sequenced up to 100 times, that is the number of times, the button can be pushed, to increase the total timing cycle in each timing mode.



Programmable Piezo Pushbutton Programming Instructions (Flow Time Adjustment)

WORKSHEET

(FILL IN ALL BOXES, WHICH WILL SIMPLIFY THE PROGRAMMING PROCEDURE)

Fill in all the Boxes below
↓ ↓

PROGRAMING STEPS:

- Power down piezo button for 10 seconds.
- Reconnect power.
- LED flashes, then stay on.
- While the LED is steady on, push button.
- LED turns off.

Determine the number of seconds per timing cycle

1 Push = 1 Second
 x 1 = sec



- You are in the 1 sec timing mode, immediately push the button, 1 push equals 1 sec added to the total timing cycle.
- Pause and wait for the LED to flash 2 times.

ADD ↑↓

1 Push = 5 Seconds
 x 5 = sec



- You are in the 5 sec timing mode, immediately push the button, 1 push equals 5 sec added to the total timing cycle.
- Pause and wait for the LED to flash 3 times.

ADD ↑↓

1 Push = 20 Seconds
 x 20 = sec



- You are in the 20 sec timing mode, immediately push the button, 1 push equals 20 sec added to the total timing cycle.

EQUALS ↓

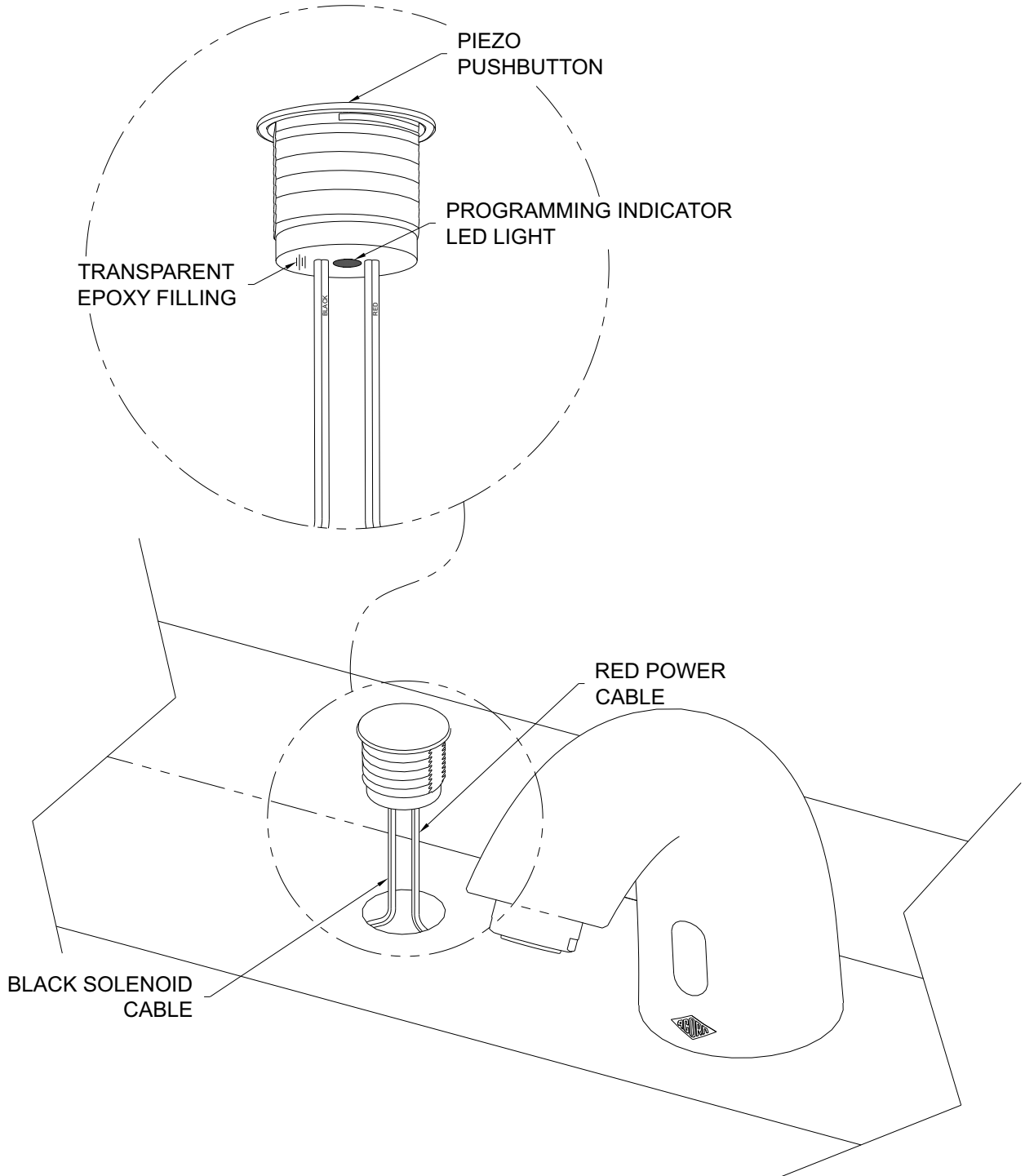
Total timing cycle equals
 seconds



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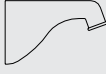
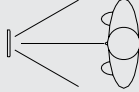


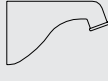
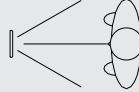
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TROUBLE SHOOTING FOR 9 VOLT DC SENSOR OPERATED VALVES

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  		
<i>Indicators</i>	<i>Probable Cause</i>	<i>Solution</i>
Sensor flashes continuously every 2 seconds when hands are within range.	Low battery warning	Replace battery
Sensor does not flash when the user's hands are within range.	Circuit breaker tripped.	Reset circuit breaker
	Battery completely used up.	Replace battery
	Defective 9V DC transformer	Replace transformer.
	Transformer polarity crossed	Replace transformer (sensor may be damaged and need replacement).
	Unit is in "Security Mode" after 90 seconds of constant detection.	Remove sources of detection and wait 30 seconds before checking.
	Sensor is picking up a highly reflective surface.	Eliminate cause of reflection and wait 30 seconds before checking.
	Defective sensor.	Replace sensor.
	Stops or water main closed.	Open stops or water main.
Sensor flashes once when user's hands are within range.	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: FALSE TRIGGERING; WATER FLOWS CONTINUOUSLY 		
<i>Indicators</i>	<i>Probable Cause</i>	<i>Solution</i>
Sensor flashes when user's 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 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.	Eliminate cause of reflection or correct lighting problem.
CONDITION: WATER FLOWS CONTINUOUSLY BUT STOPS WHEN HANDS ARE WITHIN RANGE   		
<i>Indicators</i>	<i>Probable Cause</i>	<i>Solution</i>
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.



TROUBLE SHOOTING FOR OPTIONAL PUSHBUTTON OPERATED VALVES

Normal Valve Function: Hand pushbutton operated valve has an adjustable flow time from 5 to 60 seconds.	
CONDITION: WATER DOES NOT FLOW	
Probable Cause	Solution
Water main closed.	Open water main.
Checkstops closed.	Open checkstops.
Debris or scale in checkstop strainer	Remove checkstop strainer and clean.
Air leaks from 1/8" O.D. tubing or fittings.	Replace damaged tubing or fitting.
Pushbutton air diaphragm leaks.	Replace pushbutton air diaphragm.
Servomotor diaphragm center hole is blocked.	Remove blockage.
Servomotor upper diaphragm is damaged.	Replace servomotor upper diaphragm.
Low or no water pressure at supplies.	Increase water pressure to 30 PSI minimum.
CONDITION: WATER DRIPS, WON'T SHUT OFF	
Probable Cause	Solution
Servomotor diaphragm offset hole is blocked.	Remove blockage.
Servomotor seat is damage	Replace servomotor seat.
Servomotor plate or diaphragm is obstructed.	Remove cause of obstruction.
Servomotor timer assembly is damaged.	Replace servomotor timer assembly.
CONDITION: REDUCED WATER FLOW	
Probable Cause	Solution
Valve riser tubing is crimped.	Straighten valve riser tubing.
Debris or scale in checkstop strainer	Remove checkstop strainer and clean.
Blockage in valve flow control.	Remove blockage.
Low water pressure at supplies.	Increase water pressure to 30 PSI minimum.
Lime deposits in hot water pipes.	Remove lime deposits with appropriate cleaning solution.
CONDITION: PREMATURE WATER SHUT OFF	
Probable Cause	Solution
Air leaks from 1/8" O.D. tubing or fittings.	Replace damaged tubing or fitting.
Pushbutton air diaphragm leaks.	Replace pushbutton air diaphragm.

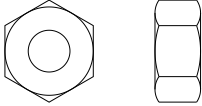
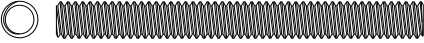
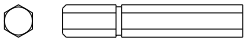
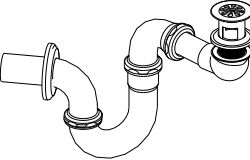

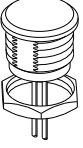
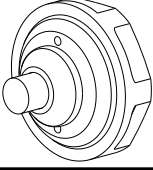
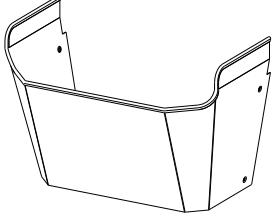


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COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
1/4"-20 Hex Nut	0302-005-000	
1/4"-20 Threaded Stud	0243-024-000	
Allen Head Bit With Center Reject	0296-025-199	
COMBINED WASTE ASSEMBLY		
P-trap Assembly	4970-001-001	
Elbow Grid Strainer	4926-062-001	
PUSHBUTTONS		
Blank Piezo Pushbutton	0709-067-001	
Pushbutton Assembly	2566-050-001	
ENCLOSURES		
Cover Plate	6214-150-001	

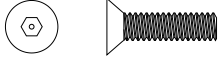
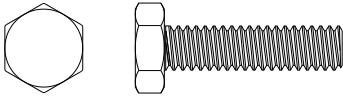
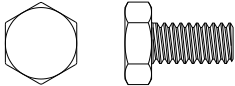

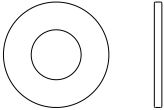
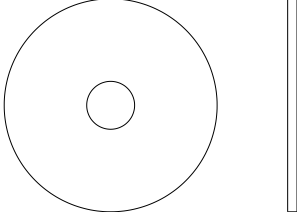


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COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
MOUNTING HARDWARE		
10-32 UNF x 3/4" Center Reject Hex Socket Head Screw	0152-006-000	
1/4"-20 UNC x 1" Hex Head Cap Screw	0206-002-000	
1/4"-20 UNC x 1/2" Hex Head Cap Screw	0206-004-000	
1/4" Lock Washer	0337-050-000	
1/4" Flat Washer	0331-005-000	
1/4" Fender Washer	0331-031-000	

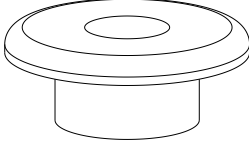

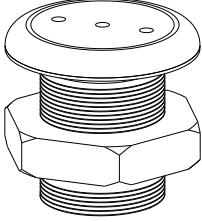
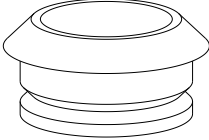
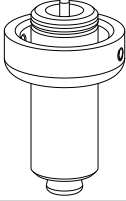
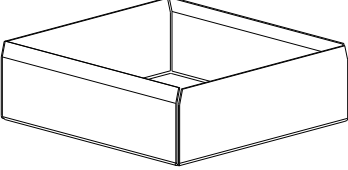


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COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
DV- SOAP OPTION		
Corterra Plug Contact factory for color selection	6214-109-101	
Access Plug	6213-129-000	
Soap Filler Assembly	6214-004-001	
Soap Tank Drain Adapter	6214-012-199	
Soap Dispenser Assembly	6214-009-001	
Soap Tank -1/2 Gal. Capacity	6214-206-199	

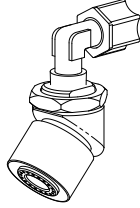
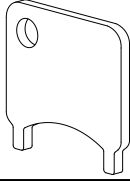
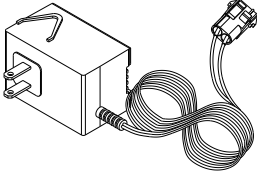
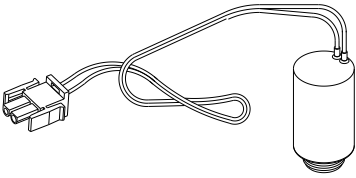
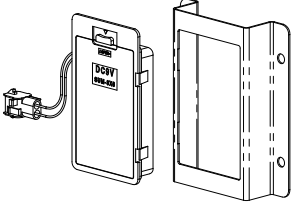
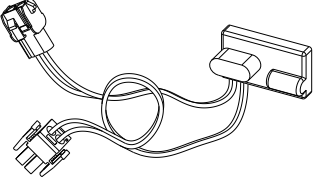


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COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
SPOUTS ASSEMBLIES		
Nozzle Assembly	6214-005-001	
Spanner Key For Spout Aerator And Soap Filler	2998-055-199	
ELECTRONIC HARDWARE		
9 VDC Plug-In Transformer	0711-410-001	
9 VDC Solenoid	2563-326-001	
9 VDC Battery-Pak Assy (6 AA Batteries Not Included)	0710-358-001	
Battery-Pak Mounting Bracket	6155-013-199	
Sensor Assembly	2562-373-001	

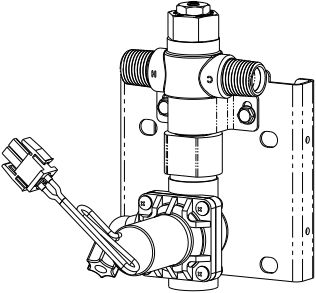
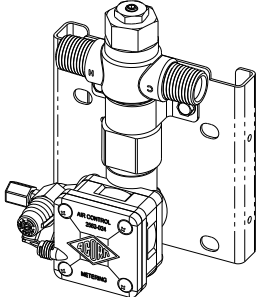
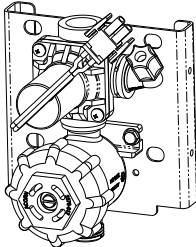


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COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
VALVE		
T/P 1-Station, 9VDC Solenoid, ASSE 1070, Mixing Valve Assembly	2598-231-001	
Optional T/P 1-Station, Hand Operated, ASSE 1070, Mixing Valve Assembly	2598-201-001	
Optional 2-Station, 9VDC Solenoid, Single Temp Valve Assembly	2598-331-001	
Optional 1-Station, Hand Operated, Single Temp, Metering Valve Assembly	2598-301-001	