



**Whitehall Manufacturing®**  
Manufacturer of Healthcare and Rehabilitation Products since 1946

# **Ligature Resistant Corterra™ Basin ADA Compliant**

Model WH3775



WH3775-WH3377L

## **INSTALLATION, OPERATIONS AND MAINTENANCE MANUAL**



## **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 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 100 psi (6.89 bars) maximum. Maximum hot water temperature is 180°F (82°C). Temperature adjustment range is 85-115°F (29-46°C). Minimum hot water supply temperature must be 5°F (3°C) above desired set temperature. 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).

Upon receiving, verify count and inspect packaging for obvious signs of damage or missing containers. If there are any issues upon receiving make note on bill of lading and report to carrier and manufacturer promptly. Remove fixture assemblies from packaging and ensure all parts are present before beginning installation. Do not discard packaging until all parts have been accounted for. Refer to Acorn terms, conditions of sales and warranty for more information.



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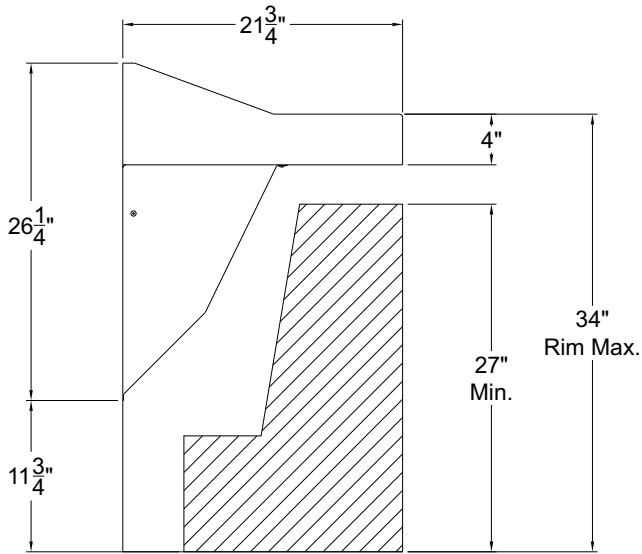
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## Required Items for Installation - Not Supplied

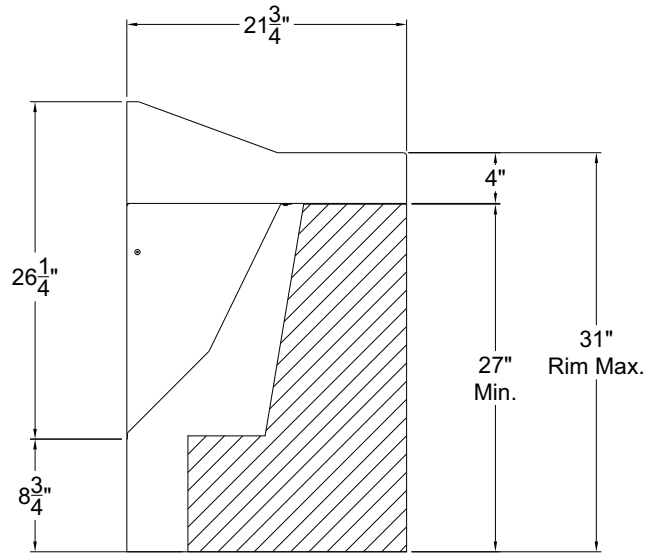
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✘ Chalk Line</li> <li>✘ Hammer</li> <li>✘ Carpenters Level</li> <li>✘ 1/2" NPS Outlet Angle Stops</li> <li>✘ 1/2" NPS Flexible Supply Hose<br/>(For -MXTP Valves Only)</li> <li>✘ 7/16" Hex Wrench</li> <li>✘ 1/4" Slotted Tip Screwdriver For Metering<br/>Adjustment</li> </ul> | <ul style="list-style-type: none"> <li>✘ Plumbers Putty</li> <li>✘ Teflon Tape</li> <li>✘ Fixture Wall Anchors and Anchoring Hardware<br/>(and Appropriate Tools) - For 9/16" (6 Places)<br/>&amp; 1/4" Punching (3 Places)</li> <li>✘ Driver For 1/4" Shank Bit - For Center Reject Bit</li> </ul> |
|--|---|



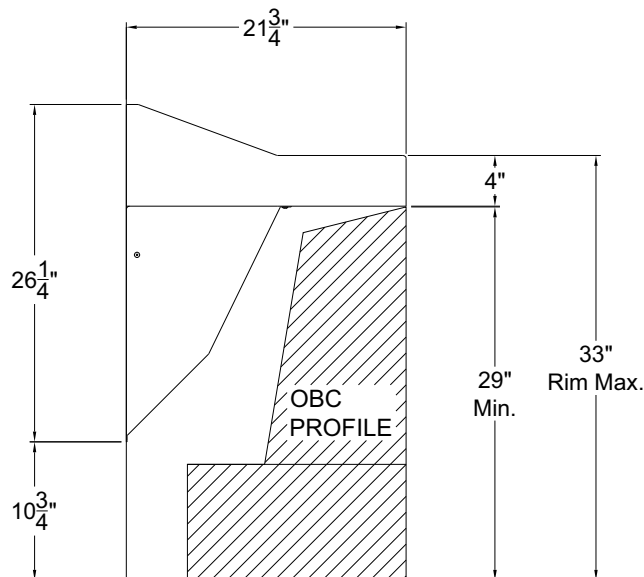
# ACCESSIBILITY OVERVIEW



ADA  
Adult



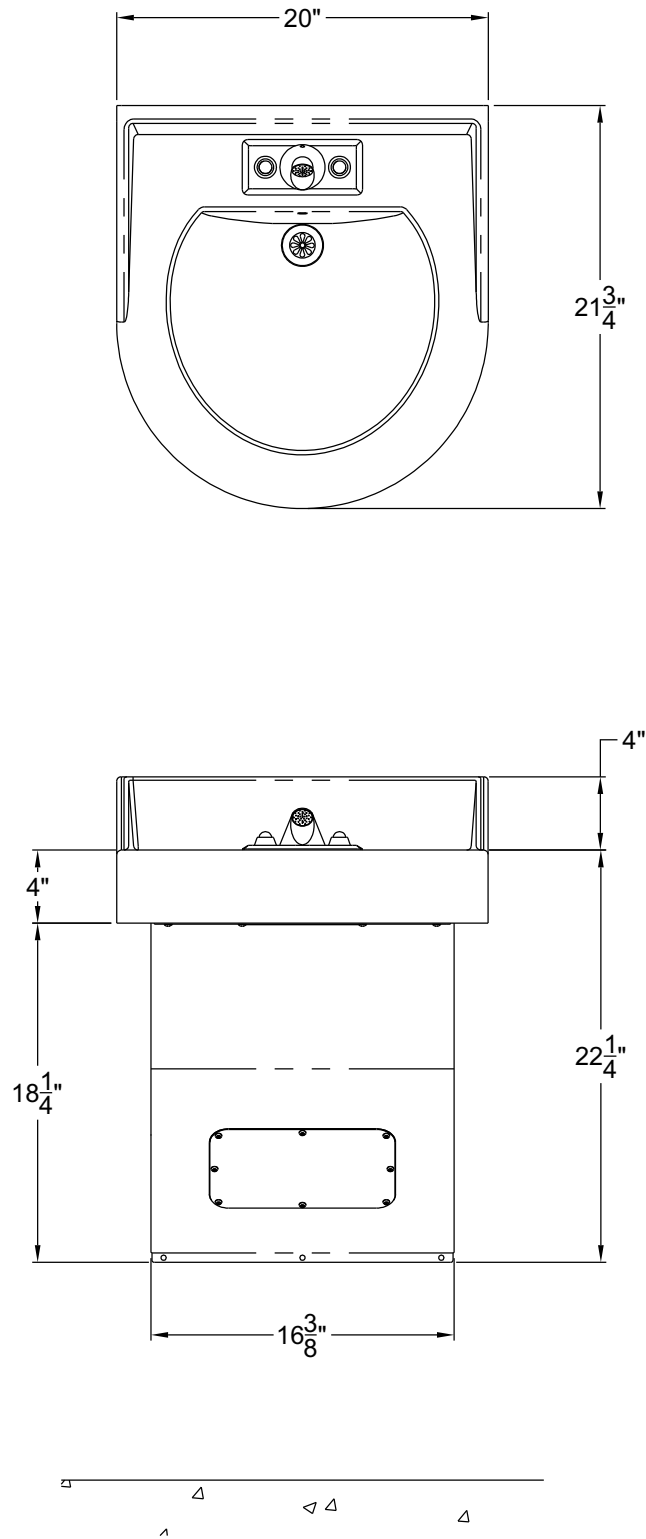
ADA ages  
6 thru 12



OBC

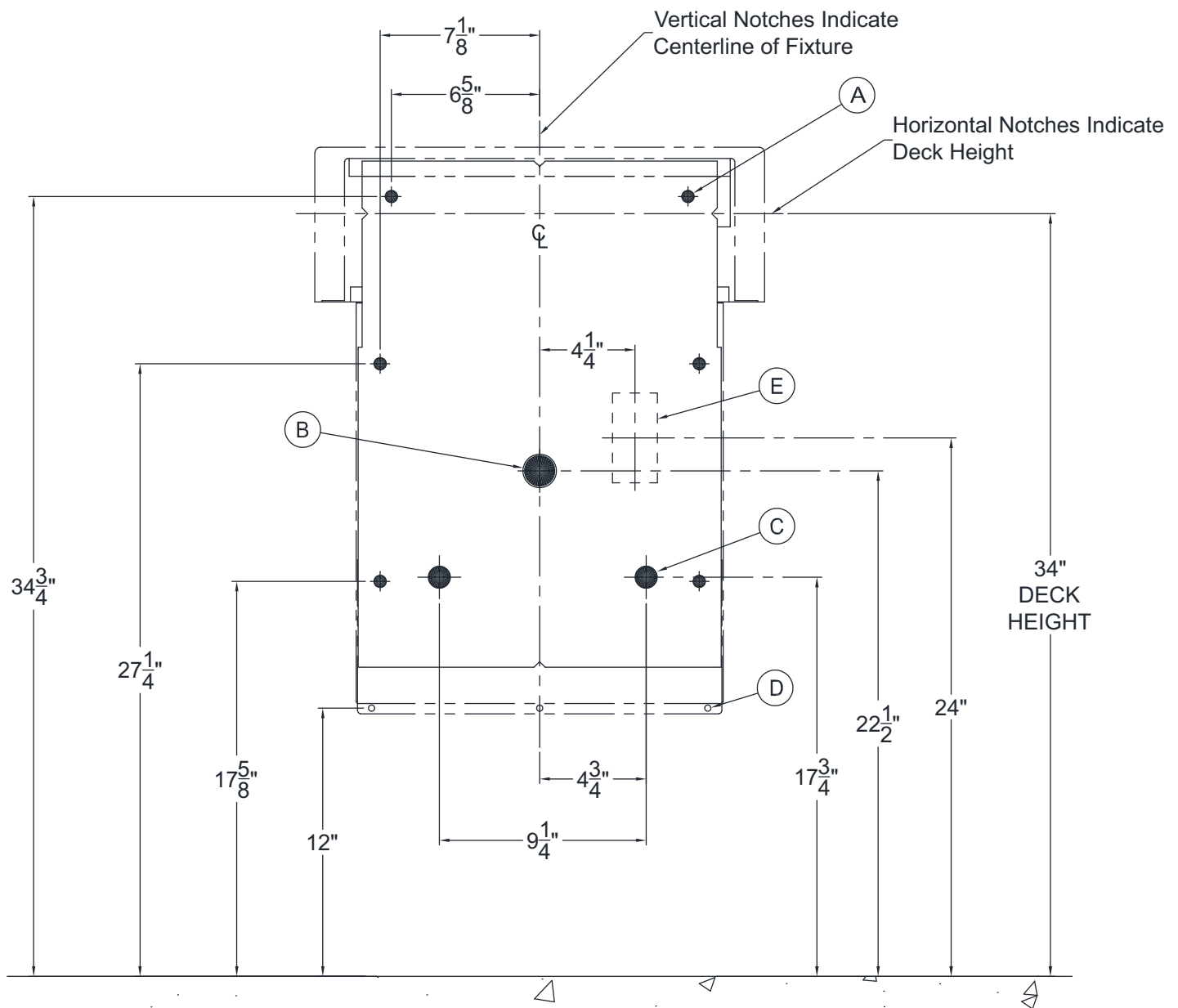


## DIMENSIONAL DATA





## ROUGH-IN DIMENSIONS -ADA (Adult)

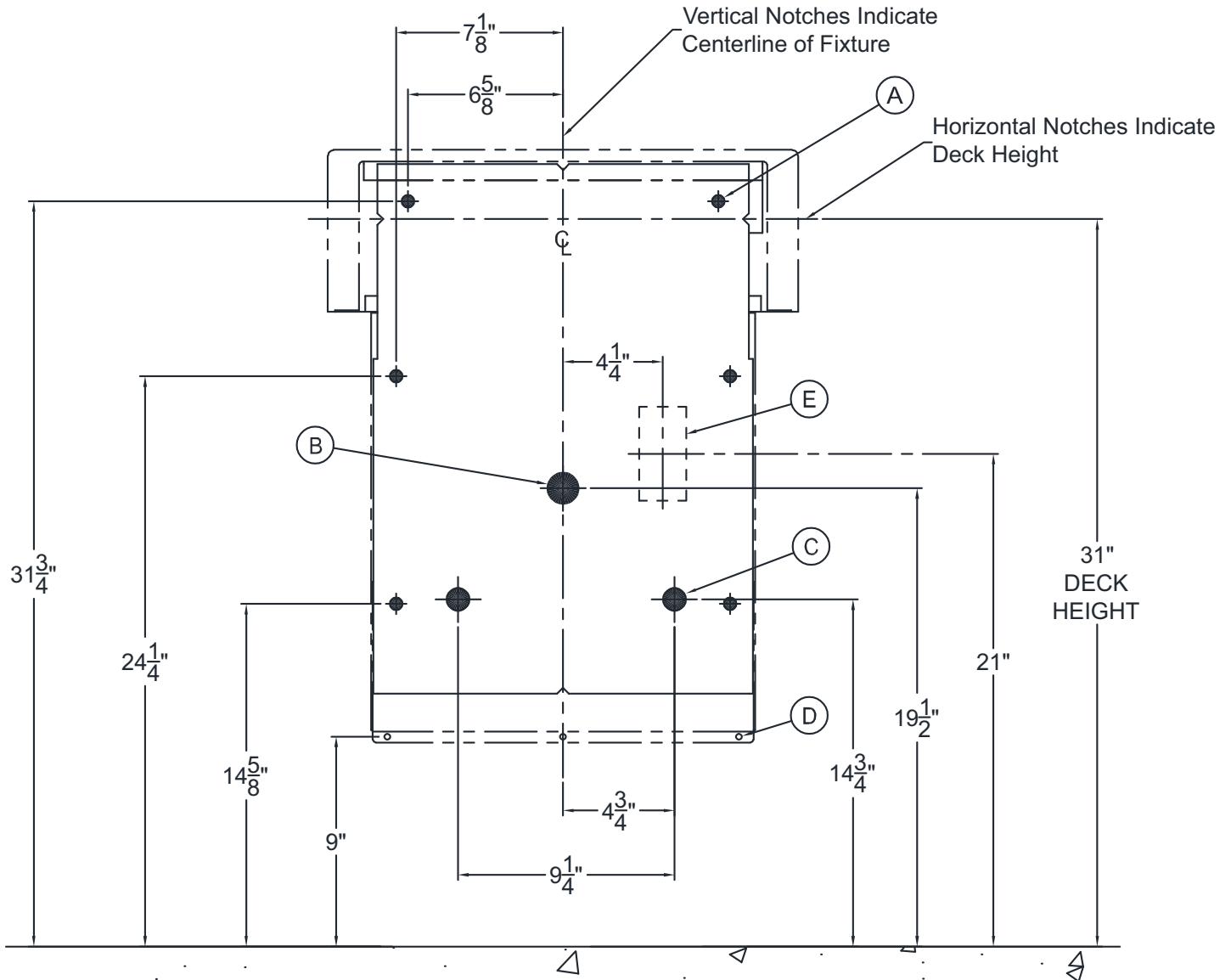


**VIEW FROM FRONT OF FIXTURE**

- (A) 9/16" Diameter Mounting holes (6) Places, Recommended 3/8" UNC Hardware.
- (B) 1-1/2" O.D. Tube Lavy Waste Outlet For Compression Joint.
- (C) 1/2" NPS Hot & Cold Angle Stops (By Others).
- (D) 1/4" Diameter Mounting holes (3).
- (E) 120VAC, 60Hz, 3A (Max) GFCI Protected, Electrical Receptacle.



## ROUGH-IN DIMENSIONS -ADA AGES 6 THRU 12 YEARS

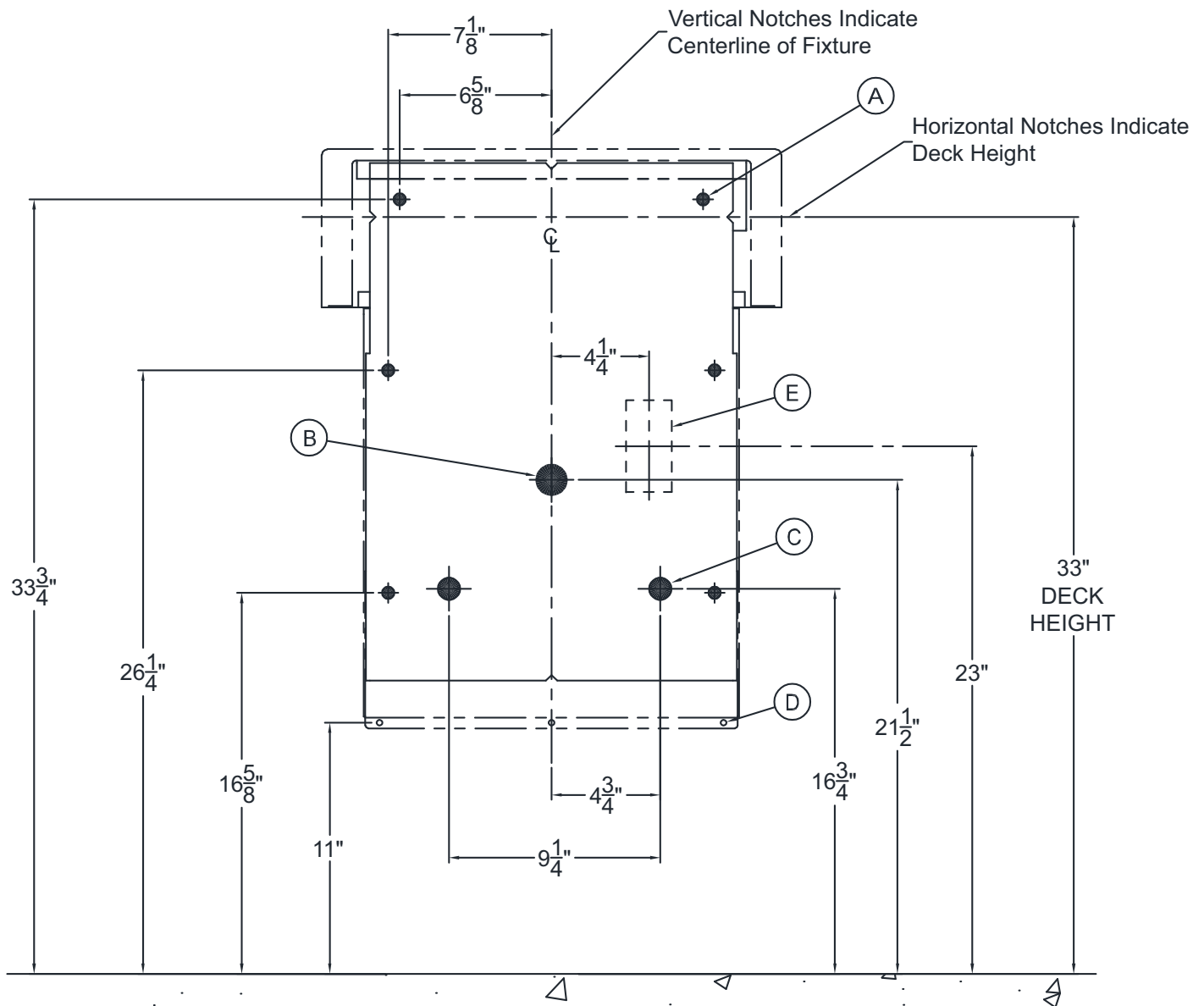


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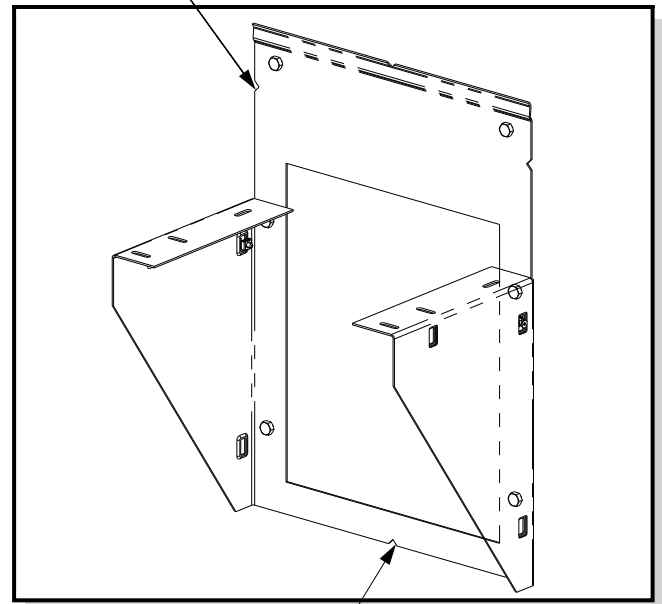
## FIXTURE ANCHORING

- 1 Disassemble access panels and deck assembly from frame. Strike a horizontal chalk line on finished wall to indicate required deck height. Strike a vertical chalk line to indicate centerline of fixture. Align frame assembly notches with vertical and horizontal chalk lines and mark and install wall anchors by others. Anchor frame to wall using 3/8" mounting hardware by others.



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

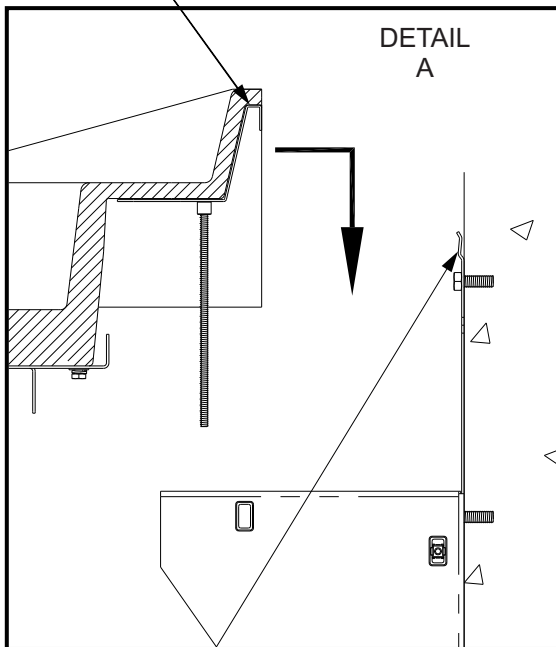
HORIZONTAL NOTCH



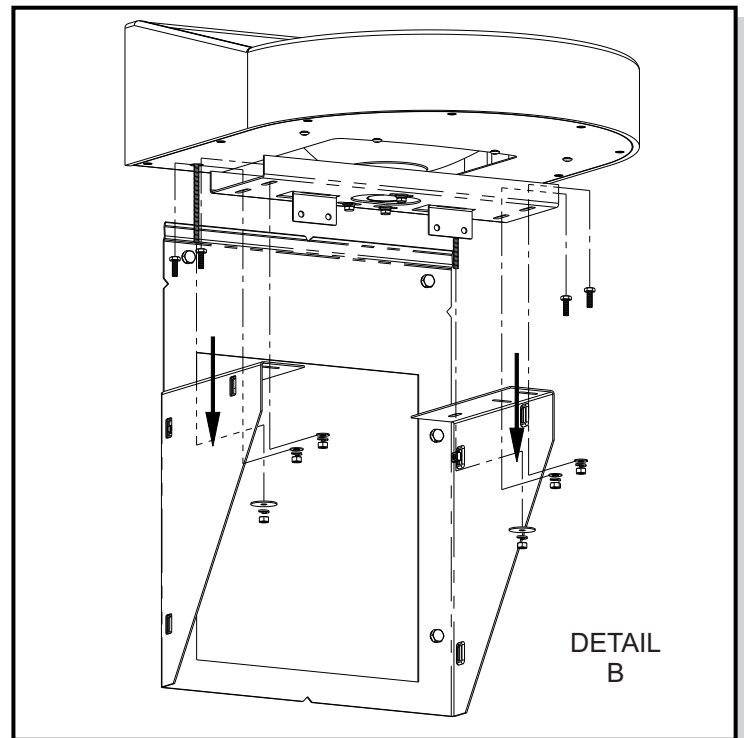
VERTICAL NOTCH

- 2 -See **DETAIL A**. Thread 1/4-20 x 7" long studs onto bottom of deck assembly, align with openings on frame and lower to frame assembly ensuring angle engages with frame joggle as indicated.  
-See **DETAIL B, C & D**. Secure deck assembly to frame using hardware provided.

ANGLE



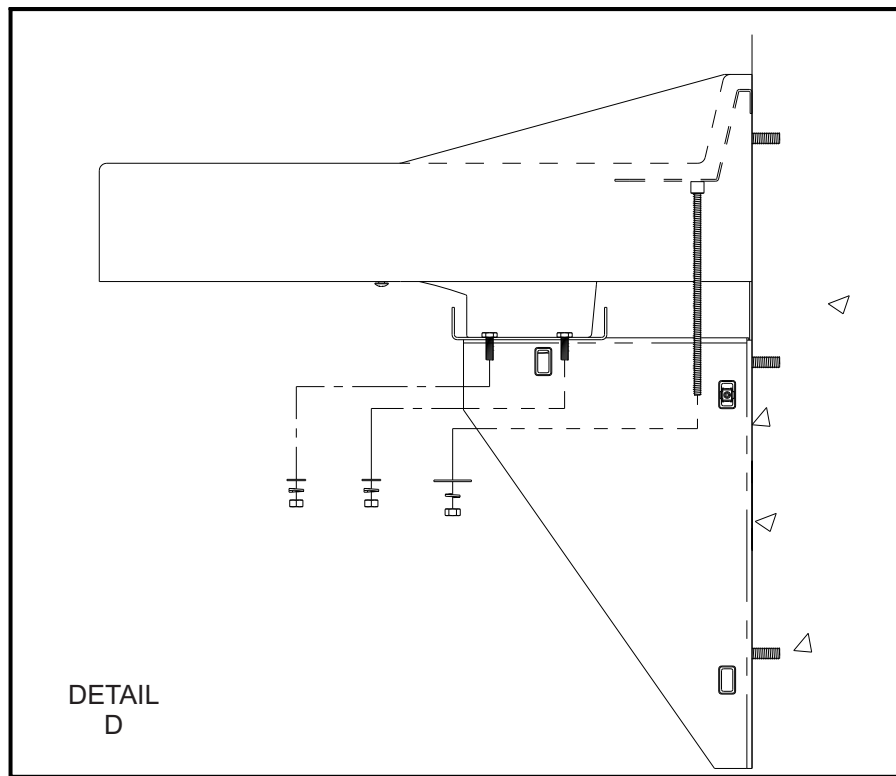
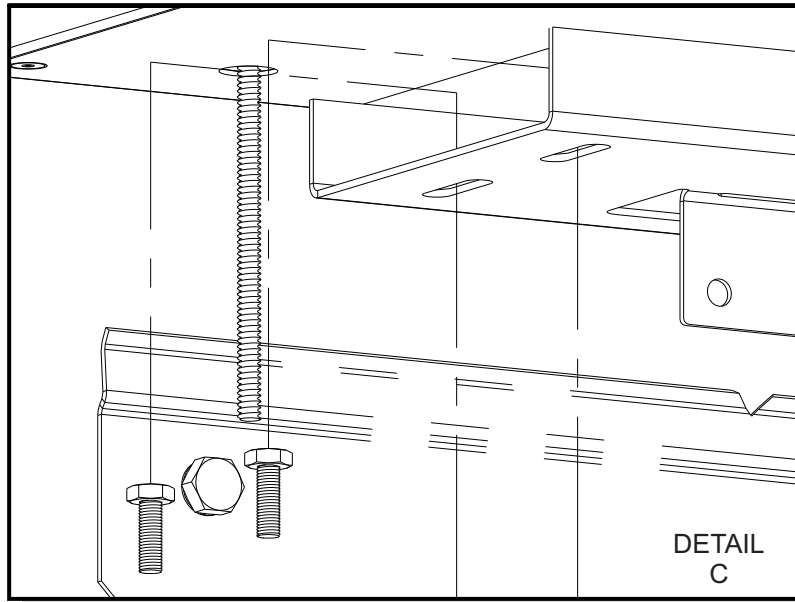
FRAME JOGGLE



DETAIL B



## FIXTURE ANCHORING

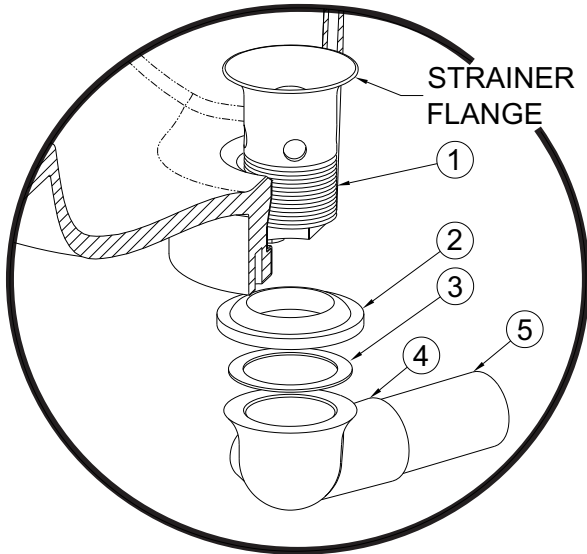




## WASTE ASSEMBLY



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



**3** Install strainer to basin using plumbers putty on underside of grid strainer flange. From beneath basin, assemble gasket, washer and jam nut as shown to strainer and tighten securely. Add close elbow to strainer assembly as indicated.

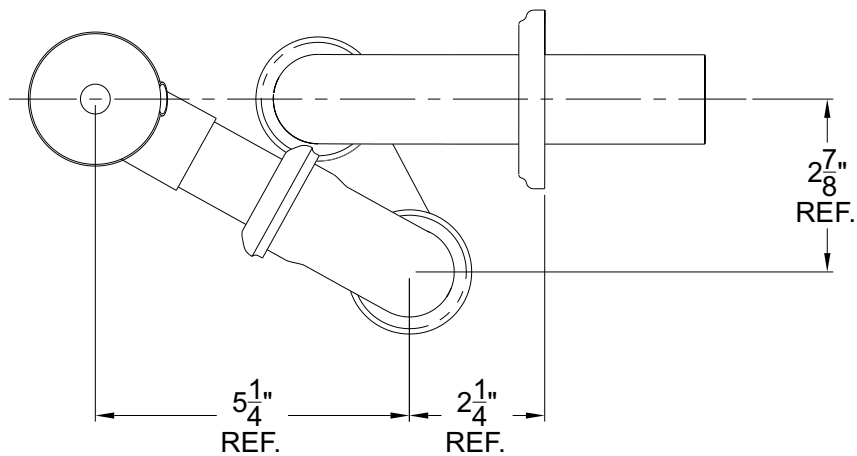
- ① Strainer w/ 1-1/2" -16 UNE Threads
- ② Rubber Gasket (1) required
- ③ Flat Fiber Washer (1) required
- ④ 1-1/2"-16 x 1-1/4" UNI Close Ell with 3/8" NPT Clean-Out Plug
- ⑤ Waste Outlet Connection



NOTE: Waste Assembly may be provided with Extra items not required in this assembly.



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.

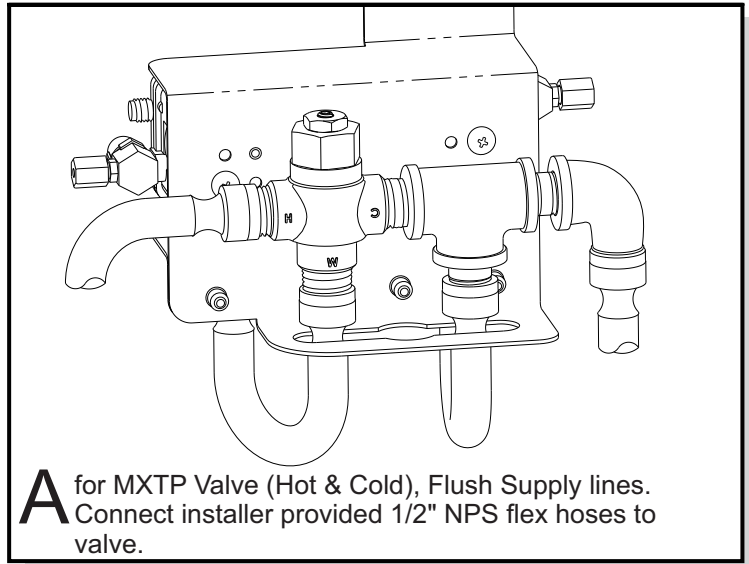


## VALVE INSTALLATION

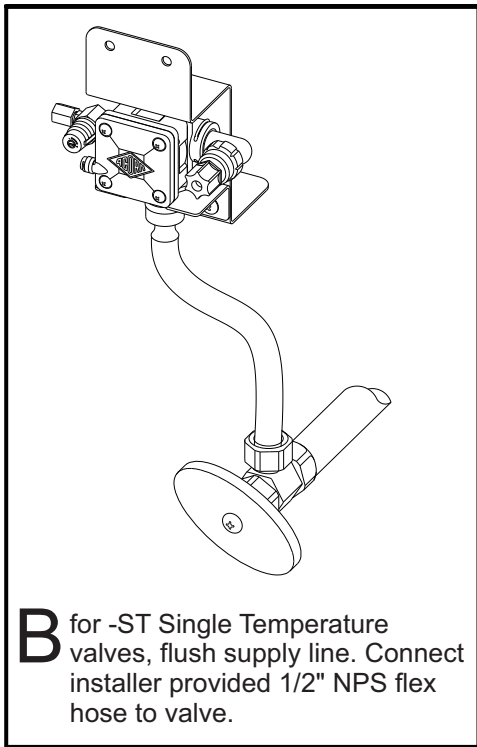
### **IMPORTANT**

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.

### DUAL TEMP. WITH MX-TP VALVE



### -03-M SINGLE TEMPERATURE METERING VALVE







## VALVE INSTALLATION & ADJUSTMENT

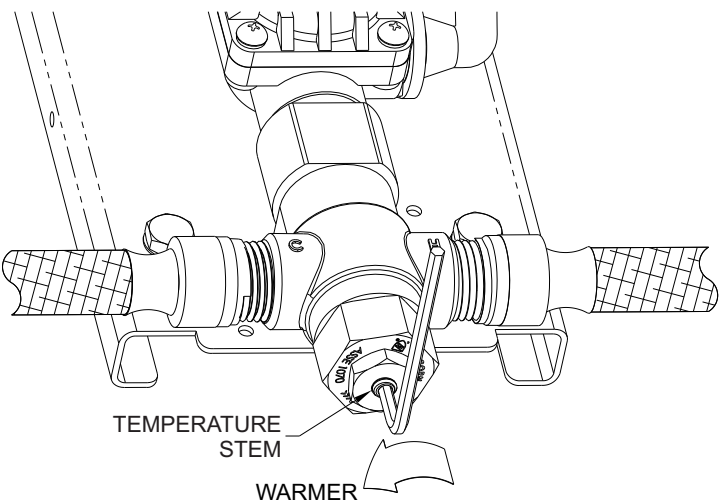
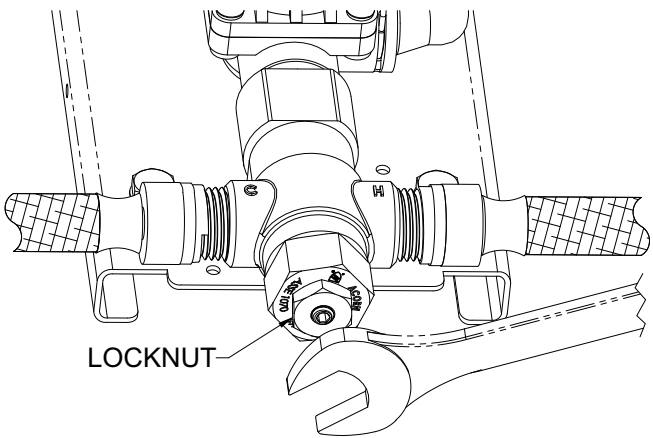
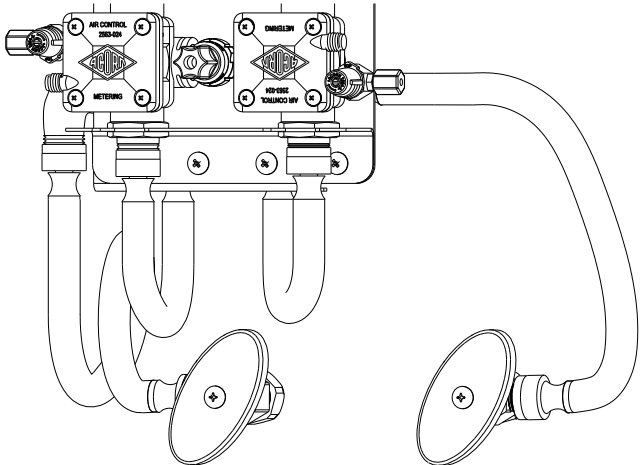
### Valve Assembly Installation:

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 are by others.
- 2) Connect hot and cold water to supply valve using 1/2" NPT 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.

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

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



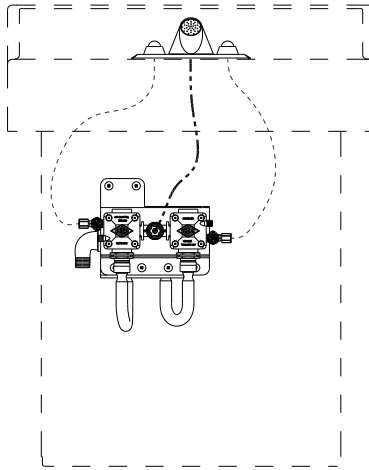
### Temperature Adjustment:

NOTE: Factory set temperature is 105° F

- 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.



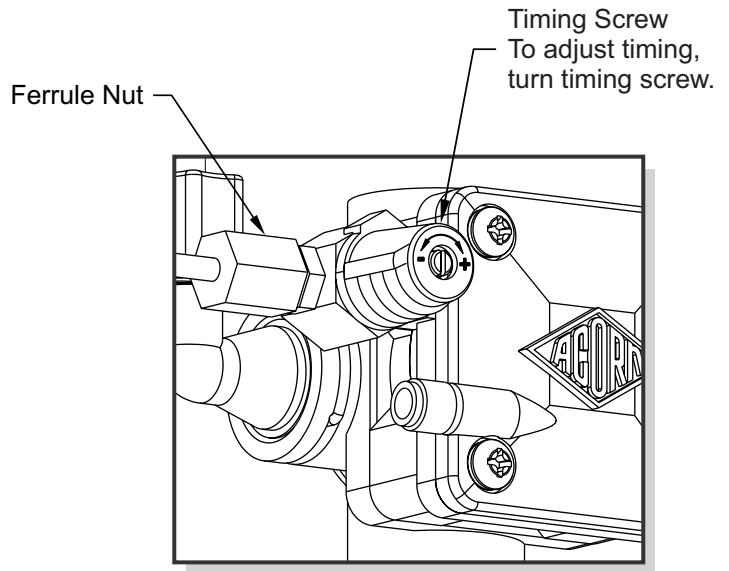
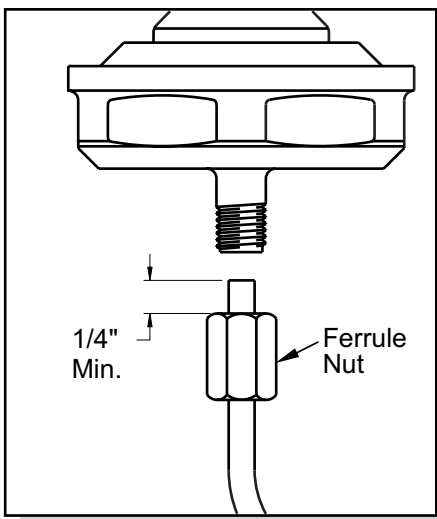
# VALVE CONNECTIONS




----- 1/8" O.D. AIR TUBE  
————— 1/4" O.D. AIR TUBE

## ! 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.



 Turn timing screw clockwise to increase timing.

## ! IMPORTANT

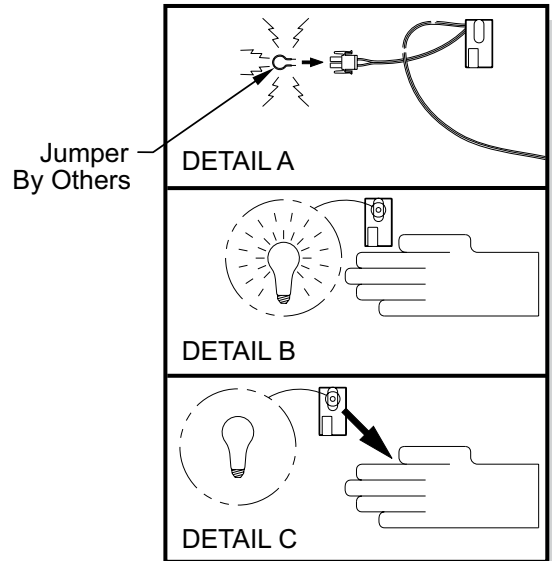
Do not over tighten ferrule nuts.



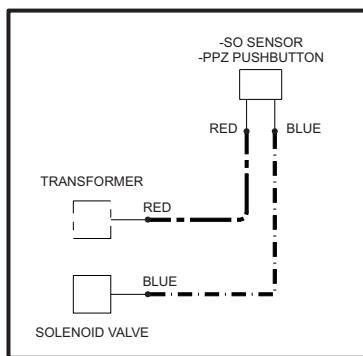
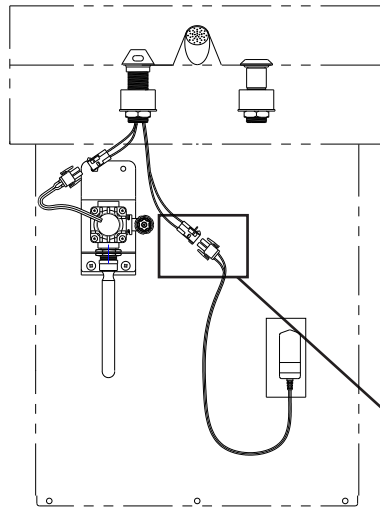
## SENSOR OPERATION & CONNECTIONS

### -SO Sensor Operation Range Adjustment

1. Make sure power supply is disconnected from sensor and make short circuit on red wires. See DETAIL A.
2. Connect power supply to sensor. Red light should be flashing.
3. Move hand in front of sensor to distance of 2" to 4" within 5 seconds and wait until red light flashes quickly.
4. Move hand to desired sensing distance. See DETAIL B.
5. Hold hand at desired sensing distance until red light stops flashing and solenoid activates. See DETAIL C.

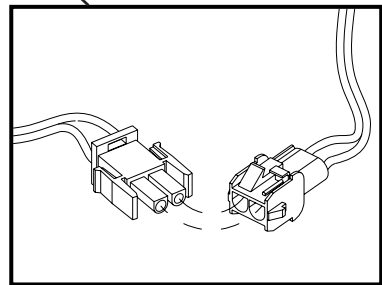


### -SO Sensor Operation or -PPZ Programmable Piezo Pushbutton



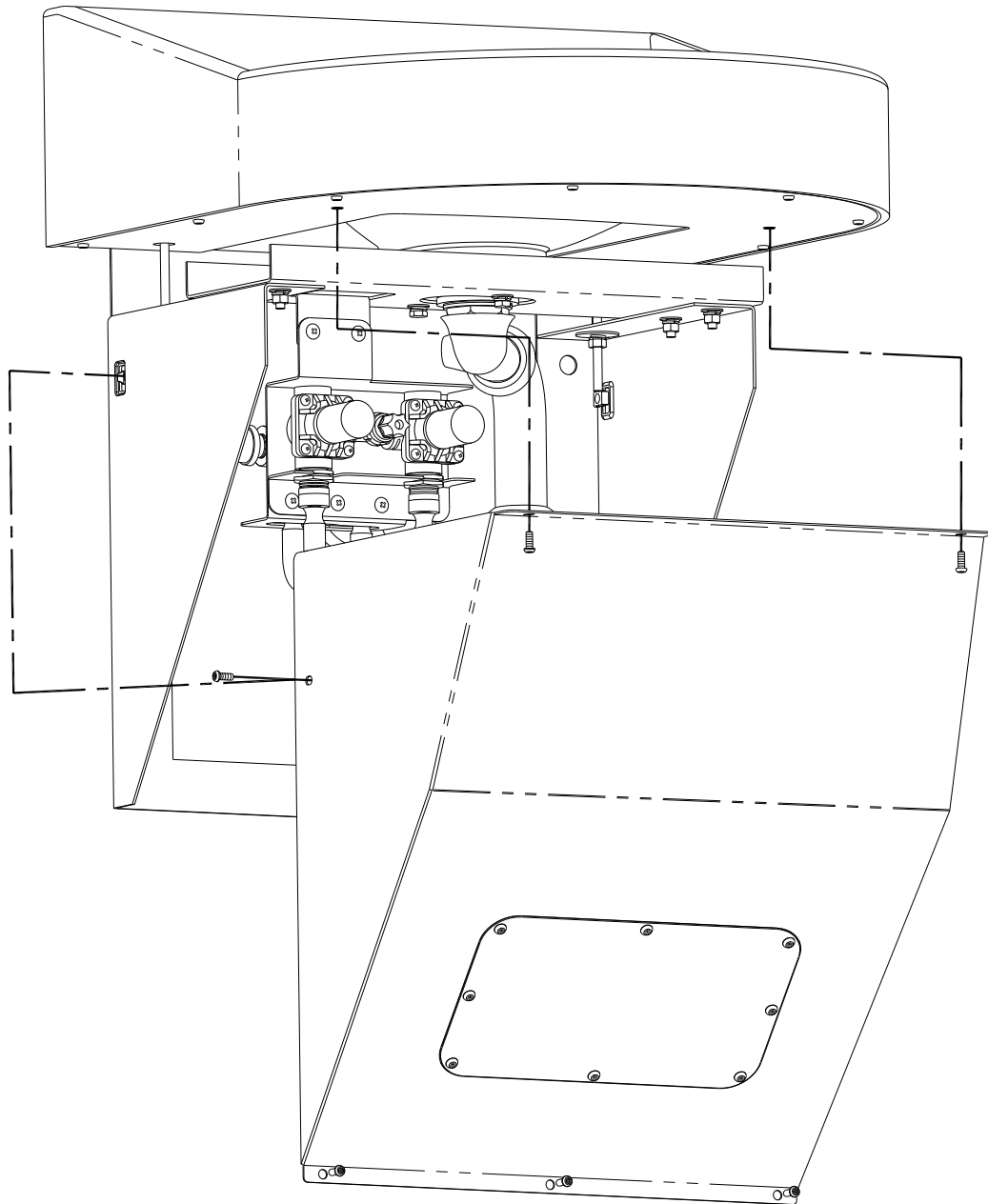
**! IMPORTANT**

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





## ACCESS PANEL INSTALLATION

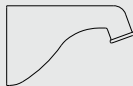


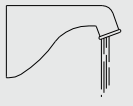
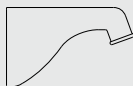



Install p-trap cover using #10-32 x 1/2" center reject hex head screws provided.  
Secure bottom of p-trap cover to wall with anchoring hardware (by others).





**TROUBLE SHOOTING FOR OPTIONAL PUSHBUTTON OPERATED VALVES**

<b>Normal Valve Function:</b> Hand pushbutton operated valve has an adjustable flow time from 5 to 60 seconds.	
<b>CONDITION: WATER DOES NOT FLOW</b>  	
<b>Probable Cause</b>	<b>Solution</b>
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.
<b>CONDITION: WATER DRIPS, WON'T SHUT OFF</b> 	
<b>Probable Cause</b>	<b>Solution</b>
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.
<b>CONDITION: REDUCED WATER FLOW</b> 	
<b>Probable Cause</b>	<b>Solution</b>
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.
<b>CONDITION: PREMATURE WATER SHUT OFF</b>  	
<b>Probable Cause</b>	<b>Solution</b>
Air leaks from 1/8" O.D. tubing or fittings.	Replace damaged tubing or fitting.
Pushbutton air diaphragm leaks.	Replace pushbutton air diaphragm.



## **CARE, CLEANING, AND REPAIR OF CORTERRA SOLID SURFACE**

### **CORTERRA SOLID SURFACE**

Acorn's densified solid surface material is composed of recycled solid-surface polymer resin, aluminum trihydrate and fillers. It is resistant to stains, impact and burns and complies with ANSI Z124.3. It is attractive, durable and easy to maintain.

#### **ROUTINE CLEANING**

Corterra should be kept clean at all times. If maintained, Corterra surfaces will retain their new, clean appearance indefinitely. Wash with a non-abrasive all purpose cleaner and water, then rinse. Wipe dry. (Never use cleaners with strong chemicals such as toilet bowl cleaners, rust removers, ceramic cook top cleaners, laquer thinners or oven cleaners). To remove persistent stains use a Scotch Brite pad and an abrasive cleaner or a solution of household bleach and water (1 part water to 1 part bleach).

#### **REPAIRING SURFACE DAMAGE**

Surface damage, such as minor chips, scratches, burn marks and graffiti can be repaired with a fine grit abrasive cleanser, such as a Scotch-Brite pad or fine grit sandpaper. For more serious physical damage caused by vandals, an Acorn Solid Surface Repair Kit is available. Contact the factory for details. Refer to drawing #9927-160-002.

## **CARE AND CLEANING OF STAINLESS STEEL SURFACE**

### **NORMAL CLEANING**

Clean weekly or more often, as needed (especially high polishing surfaces)

#### **RECOMMENDED CLEANING MATERIALS**

- Sponge – natural or artificial
- Nylon or other soft-bristle material brush
- Soft cloth (as used on automobile finishes)

#### **RECOMMENDED CLEANING SOLUTIONS**

- Hand dishwashing liquid/soft water solution
- Mild soap/soft water solution
- 3M Stainless Steel Cleaner/Polish
- White vinegar/soft water solution (for brightening, removing oil and hard water deposits)
- CLR Brand Cleanser or baking soda/soft water solution (for brightening, removing hard water deposits)
- Club soda and sponge

#### **FOR HIGH POLISH STAINLESS STEEL**

*Note: High polish stainless steel surfaces should never come into contact with any abrasive cleaning brush, cloth or cleaning agent.*

#### **To remove smudges and fingerprints:**

Wipe surfaces with a quality Stainless Steel Cleaner/Polish. Apply using a soft non-abrasive cloth, wipe surfaces with stainless steel cleaner/polish.

#### **To remove rust stains:**

Wipe surfaces with CRES (available from Acorn) or equivalent cleaner. Use recommended solutions. Apply using a soft non-abrasive sponge. Rinse surfaces immediately after application. Always follow cleaner product directions provided. Afterwards, using a soft, non-abrasive cloth, wipe surfaces with stainless steel cleaner/polish.

#### **FOR TOUGH PROBLEMS**

- CRES Cleaner specifically for rust stains (available from Acorn)

- Tarn-X for general stains
- #7 chrome polish
- Silver polish

#### **To remove stubborn spots or to treat a scratch (Standard Satin Finish Only):**

Use of synthetic, abrasive, general-purpose pads such as Scotch Brite is recommended. Apply the stainless steel cleaner/polish to the synthetic, abrasive pads and CAREFULLY rub out spot with cleaner/ polish. Be sure to rub in the direction of the grain! Do not allow steel wool to come in contact with the stainless steel. Steel particles can embed into the stainless steel surface and create rust!

Stainless steel should be kept clean at all times. If maintained, stainless steel surfaces will retain their new, clean, polished appearance indefinitely. To remove water spots or rust spots, stainless steel cleaner/polish on a cloth is recommended.

**IF SPOTS ARE STUBBORN OR IF YOU WISH TO TREAT A SCRATCH:** synthetic, abrasive, general-purpose pads such as Scotch Brite are recommended. Apply the stainless steel cleaner/polish to the synthetic, abrasive pad and CAREFULLY rub out spot with cleaner/polish. **Be sure to rub in the direction of the grain!** Do not allow steel wool to come in contact with stainless steel. Steel particles can embed into the stainless steel surface and create rust.



**COMPONENTS & REPAIR PARTS**

Description	Part No.	Diagram
<b>HARDWARE</b>		
1/4"-20 Hex Nut	0302-005-000	
1/4"-20 x 8" Threaded Stud	0243-022-000	
Allen Head Bit With Center Reject	0296-025-199	
<b>COMBINED WASTE ASSEMBLY</b>		
1-1/4" OD Waste Bend Connection	4970-180-001	
1-1/2" OD Tubular P-Trap	4953-001-000	
Ligature Resistant Elbow Strainer	4926-080-001	
<b>ENCLOSURES</b>		
P-Trap Cover	NZA0A427-001	
<b>ELECTRONIC HARDWARE</b>		
9VDC Plug-In Transformer	0710-735-001	
9 VDC Battery-Pak Assy (6 AA Batteries Not Included)	0710-358-001	
Battery-Pak Mounting Bracket	6155-013-199	

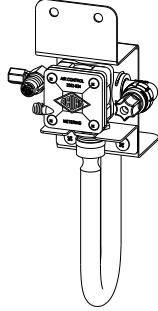
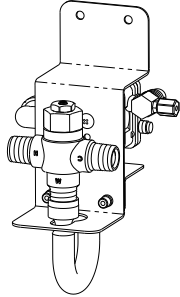
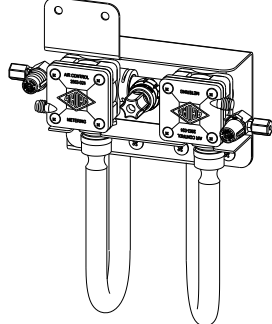
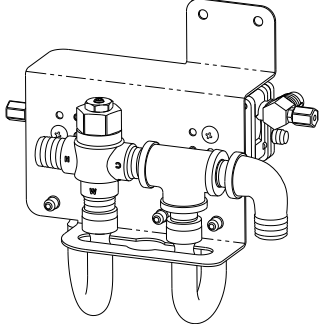


### COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
MOUNTING HARDWARE		
#10-32 x 1/2" S/S Hex C/R BTN HD Screw	0112-002-000	
1/4"-20 UNC x 3/4" Hex Head Cap Screw	0206-008-000	
1/4" Lock Washer	0337-050-000	
1/4" Flat Washer	0331-004-000	
1/4" Fender Washer	0331-031-000	

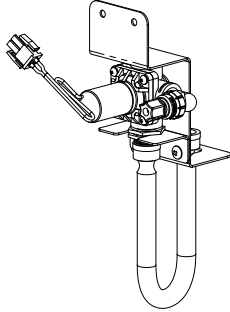
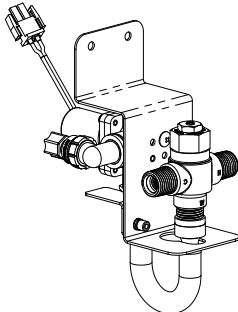
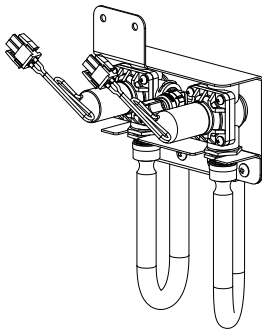
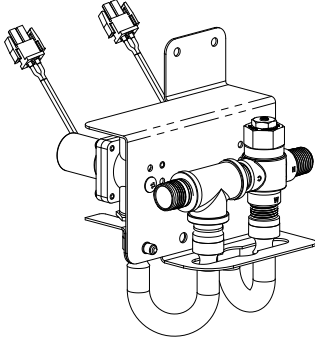


**COMPONENTS & REPAIR PARTS**

Description	Part No.	Diagram
<b>VALVE</b>		
<p>-WH3376L</p> <p>Optional -03-M Single Temp, Metering Valve Assembly</p>	<p>2590-900-001</p>	
<p>-WH3376L-MXTP</p> <p>Optional -03-M-MXTP, Single Temp, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant</p>	<p>2590-901-001</p>	
<p>-WH3377L</p> <p>Optional -04-M Hot &amp; Cold, Metering Valve Assembly</p>	<p>2590-910-001</p>	
<p>-WH3377L-MXTP</p> <p>Optional -04-M-MXTP, Hot &amp; Cold, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant</p>	<p>2590-911-001</p>	



### COMPONENTS & REPAIR PARTS

Description	Part No.	Diagram
<b>VALVE</b>		
<p>-WH3377L-PPZ -WH3377L-WSF-SO -WH3375L-WSF-SO</p> <p>Optional Electronic Metering Valve Assembly, Single Temperature</p>	2590-905-001	
<p>-WH3377L-PPZ-MXTP -WH3377L-WSF-SO-MXTP -WH3375L-SO-MXTP</p> <p>Optional Electronic Metering Valve Assembly, Single Temp, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant</p>	2590-906-001	
<p>-WH3377L-PPZ</p> <p>Optional Electronic Metering Valve Assembly, Hot and Cold</p>	2590-915-001	
<p>-WH3377L-PPZ-MXTP</p> <p>Optional Electronic Metering Valve Assembly, Hot and Cold, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant</p>	2590-916-001	



**Whitehall Manufacturing®**  
Manufacturer of Healthcare and Rehabilitation Products since 1946

**Mailing Address:**

P.O. Box 3527 • City of Industry, CA 91744-0527 U.S.A

**Physical Address:**

15125 Proctor Avenue • City of Industry, CA 91746 U.S.A

Phone 800-782-7706 • 626-968-6681

Fax 626-855-4862

Web: [www.whitehallmfg.com](http://www.whitehallmfg.com)

E-mail: [info@whitehallmfg.com](mailto:info@whitehallmfg.com)

**MANUFACTURER'S WARRANTY**

Go to [www.whitehallmfg.com](http://www.whitehallmfg.com) to fill out eWarranty Registration, keyword search: WARRANTY.

Whitehall Manufacturing Company warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Whitehall's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Whitehall is notified in writing within one year from date of shipment, F.O.B. Industry, California.

**This warranty does not cover installation or labor charges, and does not apply to materials which have been damaged by other causes such as mishandling or improper care or abnormal use.** The repair or replacement of the defective materials shall constitute the sole remedy of the Buyer and the sole remedy of Whitehall under this warranty. Whitehall shall not be liable under any circumstances for incidental, consequential or direct charges caused by defects in the materials, or any delay in the repair or replacement thereof. This warranty is in lieu of all other warranties expressed or implied. Product maintenance instructions are issued with each fixture, and disregard or non-compliance with these instructions will constitute an abnormal use condition and void the warranty. If you have any questions or require technical assistance, please call 800-743-8219.

**NOTICE TO KEEP ORIGINAL PACKAGING-** Regarding warranty claims: customer must retain original packaging for one year upon receipt of product. If packaging is discarded, it is the customer's responsibility to provide adequate packaging. Any shipping claims that are a direct result of customer-provided packaging materials will be handled by the shipper.