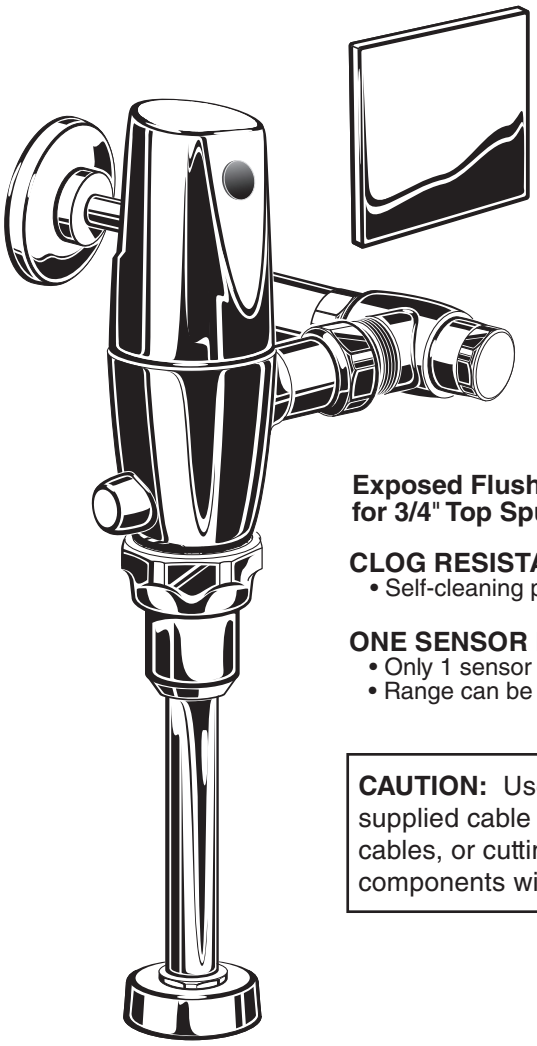
Installation Instructions

SELECTRONIC®

AC POWERED PROXIMITY EXPOSED URINAL FLUSH VALVE
0.125 0.25 0.5 & 1.0 GPF

MODEL NUMBERS			
6061.101	6061.051	6061.025	6061.013
6062.101	6062.051	6062.025	6062.013



Exposed Flushometer for 3/4" Top Spud Urinals

CLOG RESISTANT
- Self-cleaning piston valve prevents clogging and reduces maintenance.

ONE SENSOR FITS ALL
- Only 1 sensor for entire Selectronic™ line of faucets, urinals, and flush valves.
- Range can be adjusted manually or with optional remote control.

CAUTION: Use only American Standard supplied cable sets. Using non-AS supplied cables, or cutting, splicing or modifying any components will void the warranty.

Certified to comply with ASME A112.19.2

M965645 REV. 1.1 (12/14)

American Standard

NOTE TO INSTALLER: Please give this manual to the customer after installation.

To learn more about American Standard Selectronic® Products visit our website at: **www.americanstandard-us.com** or e-mail us at: **CRTTEAM@americanstandard.com**

For Parts, Service, Warranty or other Assistance, please call (844) CRT-TEAM / (844) 278-8326 (In Canada: 1-800-387-0369) (In Toronto Area only: 1-905-306-1093)

American Standard CRT Certified Response Technician

Thank you for selecting American-Standard...the benchmark of fine quality for over 100 years.To ensure that your installation proceeds smoothly--please read these instructions carefully before you begin.

UNPACKING

All American Standard Products Are Water Tested At Our Factory. Some Residual Water May Remain In The Valve During Shipping.

Remove the Flush Valve items from the carton. The illustration below shows all items after they have been removed from the carton. Some items may be packaged partially assembled to other items.

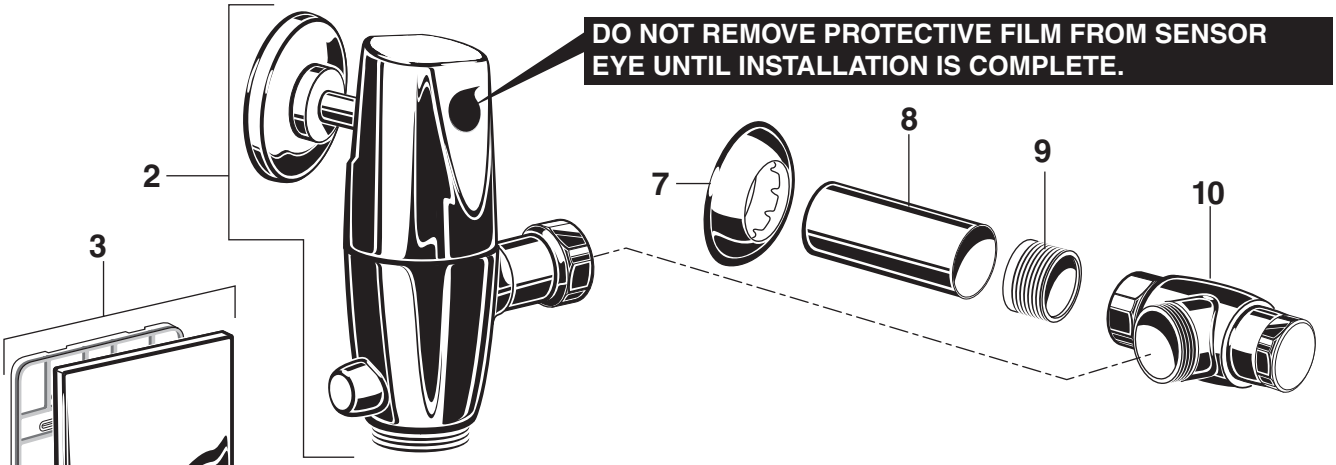
1. Installation Instructions
2. Flush Valve Body Assembly
3. Cover Plate
4. Vacuum Breaker Tube
5. Spud Coupling Nut and Washers
6. Spud Flange
7. Wall Escutcheon
8. Cover Tube
9. Sweat Adapter
10. Stop Valve
11. AC Hardwire Power Supply
12. 27" Extension Cable
13. Y-Adapter
14. 10' Extension

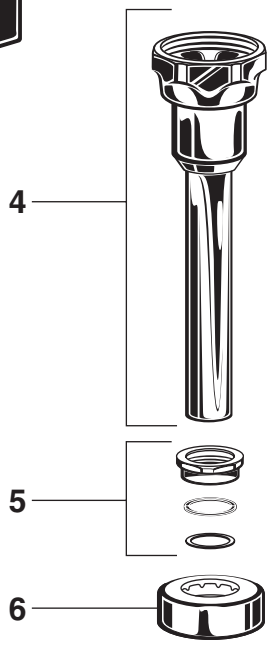
CARE INSTRUCTIONS:

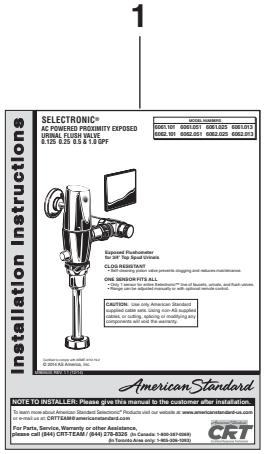
DO: CLEAN THE PRODUCT WITH CLEAR WATER. DRY WITH A SOFT COTTON FLANNEL CLOTH.

DO NOT: DO NOT CLEAN THE PRODUCT WITH SOAPS, ACID, POLISH, ABRASIVES, HARSH CLEANERS, OR A CLOTH WITH A COARSE SURFACE.

DO NOT REMOVE PROTECTIVE FILM FROM SENSOR EYE UNTIL INSTALLATION IS COMPLETE.

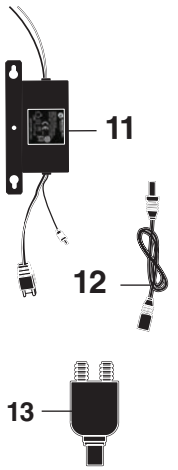




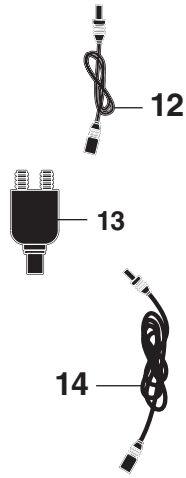


Power Source

AC Hard-Wire 6062. Series



AC Multi 6061. Series



M965645 REV. 1.1 (12/14)

Fig. 1

Roughing-in Dimensions

Right or Left Hand Installation

See **(Section 5)** for converting Flush Valve to Left Hand Installation.

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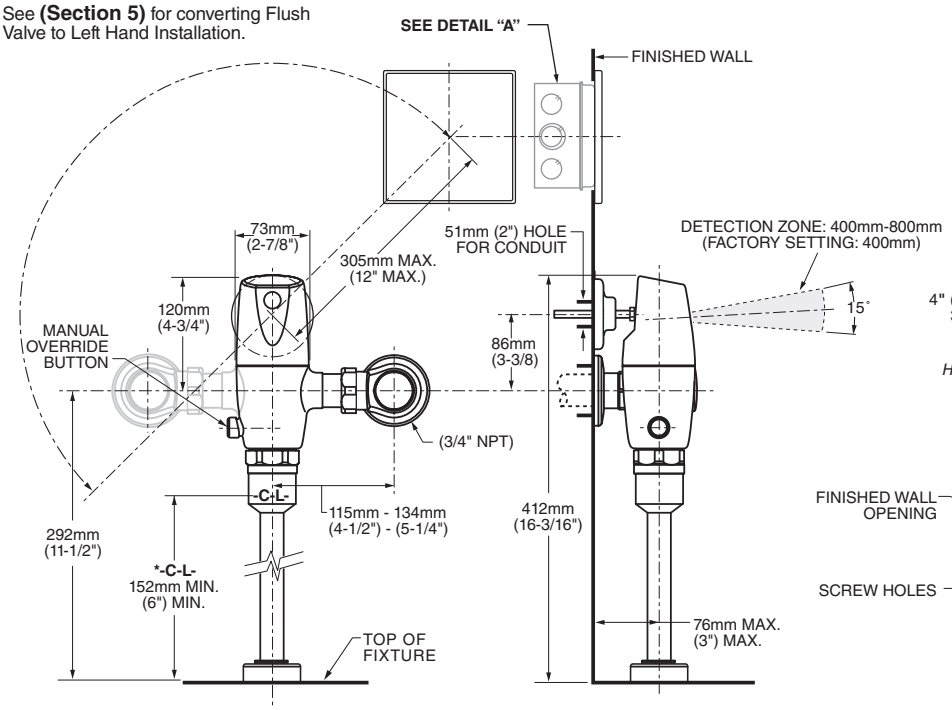
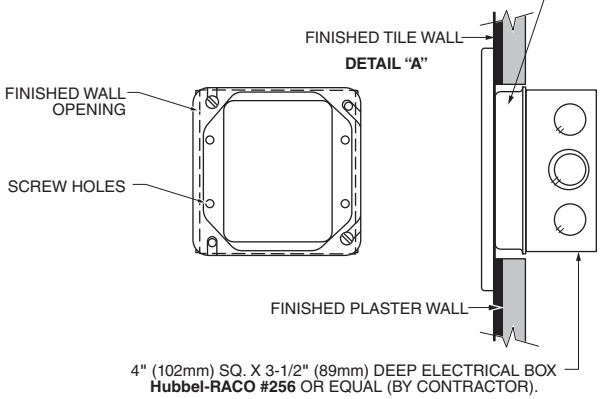


*Note: The Critical Line (-C-L-) on Vacuum Breaker must typically be 6" (152mm) above fixture. Consult Codes for details.



GENERAL DESCRIPTION:

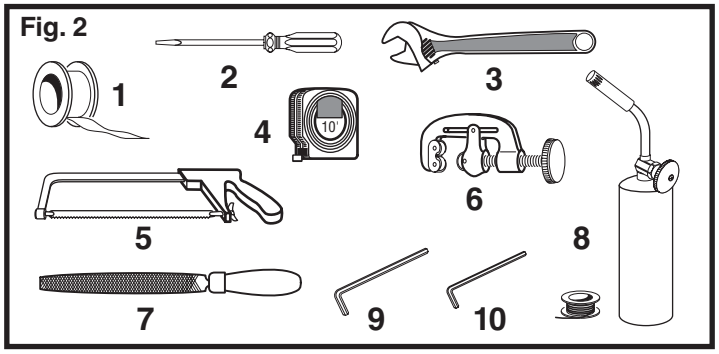
SELECTRONIC™ PROXIMITY TOILET FLUSH VALVE Exposed Flushometer for 3/4" Top Spud Fixtures

Exclusive, self cleaning piston-type flush valve with proximity operation and manual override. Operates on AC power. Recommended operating pressure 20psi (flowing) to 80 psi (static). Can install left or right-handed. Detection Zone can also be adjusted manually, or with optional remote control.

RECOMMENDED TOOLS; Fig. 2

1. Teflon Tape
2. Flat Blade Screwdriver
3. Adjustable Wrench
4. Tape Measure
5. Hacksaw
6. Tubing Cutter
7. File
8. For Sweat Connection; Solder and Torch
9. 2.5mm Hex Wrench
10. 1.5mm Hex Wrench

Fig. 2



PRIOR TO INSTALLATION

Note: ***Prior to installing the Selectronic™ Flush Valve the following items must be installed.***

1. Urinal
2. Drain line
3. Water supply line

IMPORTANT:

- All plumbing and electrical wiring must be installed in accordance with applicable codes, regulations and standards.
- The use of water hammer arrestors is strongly recommended for commercial applications. All piping behind the walls should be properly secured and fastened.
- Water supply lines must be sized to provide an adequate volume of water for each fixture.
- Flush all water lines prior to operation (**See Step 4**). Dirt and debris can cause flush valve to run continuously.
- **With the exception of Stop Valve Inlet, DO NOT use pipe sealant or plumbing grease on any valve component or coupling!**
- Protect the chrome or special finish on the Flushometer. DO NOT USE toothed tools on finished surfaces to install or service these valves. Also see "Care and Cleaning" section of this manual.
- This product contains mechanical and/or electrical components that are subject to normal wear. These components should be checked on a regular basis and replaced as needed to maintain the valve's performance.

FLUSH VALVE INSTALLATION

1 INSTALL SWEAT ADAPTER; Fig. 3

CAUTION **Turn water supplies off before beginning**

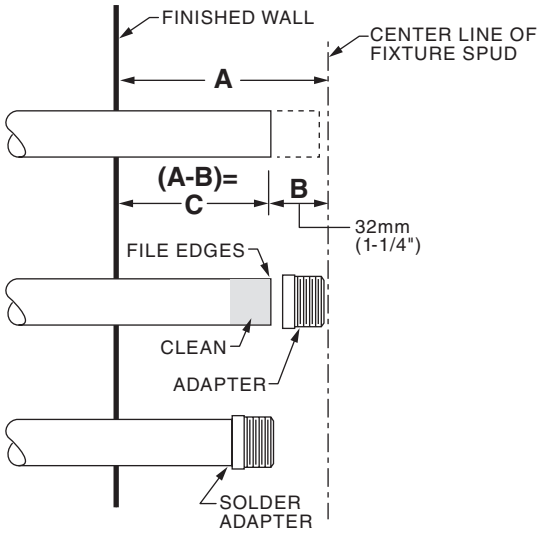
Note: ***Install Optional Sweat Adapter (Supplied) for copper pipe supply line.***

1. Measure the distance (A) from the finished wall to the center of the inlet spud on the fixture.

2. Cut the supply pipe 1-1/4" (A-B=C) shorter than the measurement taken in Step 1. File any rough edges off the end of the supply pipe.

3. Clean the end of the supply pipe. Push the threaded Adapter until it is seated against the internal stop. Sweat the Adapter to the pipe.

Fig.3



2 INSTALL COVER TUBE, WALL ESCUTCHEON and STOP VALVE; Fig. 4

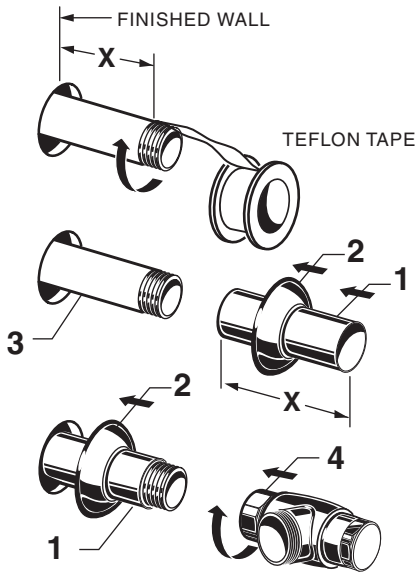
1. Measure from finished wall to first thread of Adapter or threaded supply pipe (dimension "X"). Cut COVER TUBE **(1)** to length (X). Apply Teflon Tape to the threaded end of the Adapter or supply pipe.

2. Push WALL ESCUTCHEON **(2)** onto the COVER TUBE **(1).** Slide both onto the SUPPLY PIPE **(3)**.

3. Push the COVER TUBE **(1)** in to expose the threads of the supply pipe. With a wrench thread the STOP VALVE **(4)** onto the SUPPLY PIPE **(3)**. Align and tighten.

4. Pull COVER TUBE **(1)** against STOP VALVE **(4)** and push WALL ESCUTCHEON **(2)** against finished wall.

Fig. 4



3 INSTALL VACUUM BREAKER TUBE; Fig. 5

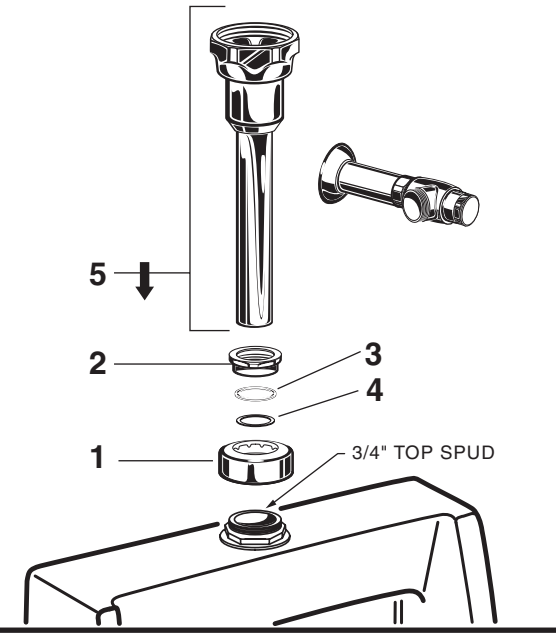
1. Place the SPUD FLANGE **(1)** over the spud on the Fixture.

2. Place FRICTION WASHER **(3)** and SEAL WASHER **(4)** inside SPUD COUPLING NUT **(2)** and thread onto Spud. Do not tighten fully.

3. Insert the VACUUM BREAKER TUBE **(5)** into the SPUD COUPLING NUT **(2)** and push it down.

Note: ***If cutting VACUUM BREAKER TUBE (5) to size, note that Critical Line (C/L) on Vacuum Breaker must typically be 6" (152mm) above fixture. Consult Code for details.***

Fig. 5



M965645 REV. 1.1 (12/14)

4 FLUSH OUT SUPPLY LINES; Fig. 6

1. Remove STOP VALVE COVER **(1)** from STOP VALVE **(2)**.

2. Open STOP VALVE **(2)** with a flat blade screwdriver.

3. Turn on water supply to flush line of any debris or sediment.

4. Close STOP VALVE **(2)** and replace STOP VALVE COVER **(1)**.

5 LEFT OR RIGHT HAND INSTALLATION; Fig. 7

The unit is shipped with the inlet flange on the right side. If needed, the orientation can be modified by following the steps below.

1. Loosen SET SCREW **(1)** with 2.5mm Hex Wrench **(4)** in back of FLUSH VALVE COVER **(2)**.

2. Rotate FLUSH VALVE COVER **(2)** to the right and pull off.

3. Rotate FLUSH VALVE BODY **(3)** 180˚

4. Replace COVER **(2)** and rotate until key engages. Tighten SET SCREW **(1)**.

6 INSTALL FLUSH VALVE; Fig. 8, 8a

1. Insert ADJUSTABLE TAILPIECE **(1)** into the STOP VALVE **(2)**. Lubricate the O-RING **(3)** with water if necessary. Lightly tighten COUPLING NUT **(4)**. **Fig. 8.**

Important: ***Do not use lubricants (other than water) or any type of thread sealing paste or tape.***

2. Align the FLUSH VALVE BODY **(5)** directly above the VACUUM BREAKER TUBE **(7)** and VACUUM BREAKER COUPLING NUT **(6). Fig. 8a.**

Note: ***There is a +13mm, -6mm (+1/2, -1/4) tolerance for the 121mm (4-3/4) dimension.*** **Fig. 8a.**

3. Pull the VACUUM BREAKER TUBE **(7)** up to meet the threaded FLUSH VALVE BODY **(5)**, hand tighten the VACUUM BREAKER COUPLING NUT **(6)**. Align all components of the flush valve assembly. **Fig. 8a.**

4. Lightly tighten the COUPLING NUT **(4)** connection first, then the VACUUM BREAKER COUPLING NUT **(6)** and finally the SPUD COUPLING NUT **(8)**. Once alligned correctly, use a wrench to tighten couplings to make water tight connections. **Fig. 8a.**

Fig. 6

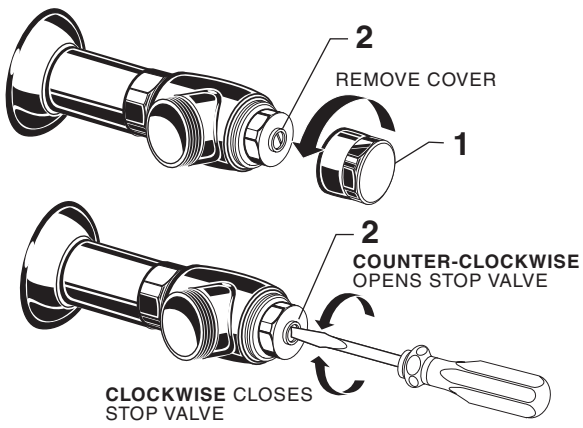


Fig. 7

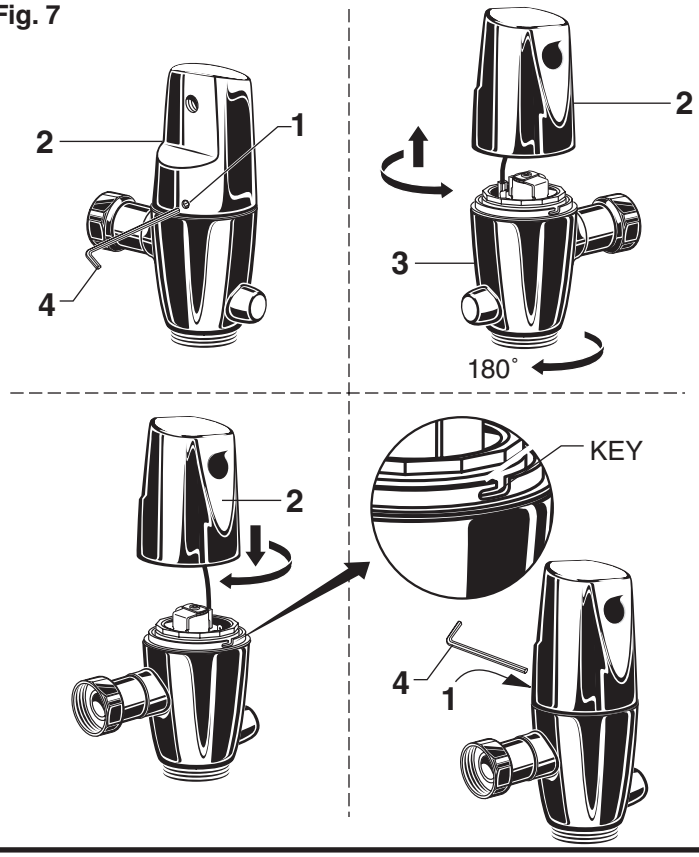


Fig. 8

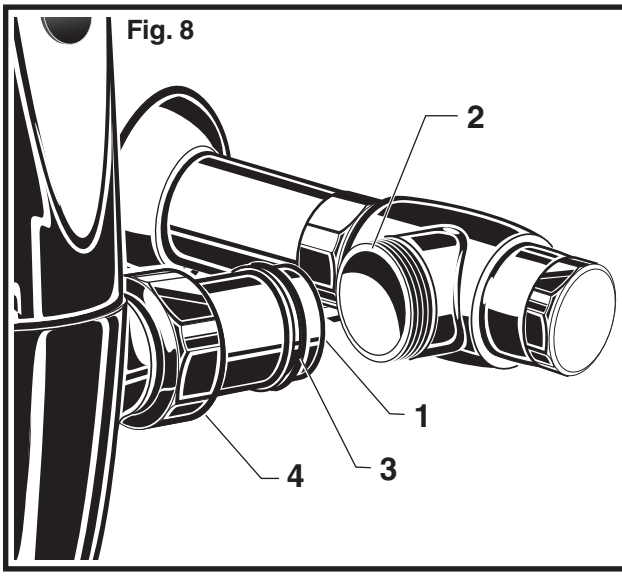
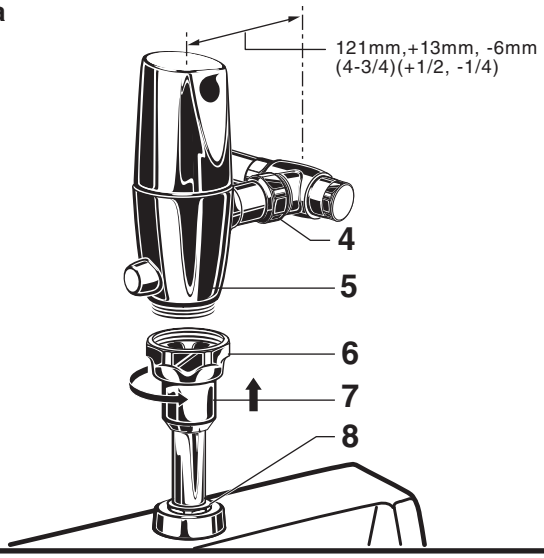


Fig. 8a



ELECTRICAL INSTALLATION

7 INSTALL ELECTRICAL BOX; Fig. 9

1. Drill a 2" diameter hole in the finished wall for the conduit tube from the flush valve at the dimension shown.

2. Cut a 105 x 105mm (4-1/8"x 4-1/8") opening in finished wall for ELECTRICAL BOX **(1)** (not supplied) at the dimensions shown.

Note: ***The ELECTRICAL BOX (1) can be installed in any location along the marked arc.***

3. Feed 27" EXTENSION CABLE **(2)** through wall opening and back out through 1"diameter hole.

Important: ***Make sure the smaller end of the SENSOR CABLE (2) goes through the 1" diameter hole.***

4. Install ELECTRICAL BOX **(1).**

8a INSTALL POWER SUPPLY AND MAKE ELECTRICAL CONNECTIONS; Fig. 10, 10a

CAUTION **Ensure that the line power to bathroom is OFF prior to making connections.**

1. Mount POWER SUPPLY **(1)** into ELECTRICAL BOX **(2).** Connect White and Black power connections to POWER SUPPLY **(1)**. **Fig. 10.**

2. Connect AC POWER SUPPLY **(1)** to the single terminal of the Y-ADAPTER **(4)**. **Fig. 10.**

3. Connect one end of the 27" EXTENSION CABLE **(3)** to one of the two available terminals of Y-ADAPTER **(4). Fig. 10.**

4. After POWER SUPPLY **(1)** is installed and wire connections are completed, install the COVER PLATE FRAME **(5)** onto the ELECTRICAL BOX **(2). Fig. 10a.**

5. Install the two Tabs on the back side of the COVER PLATE **(6)** into the two Slots located on the top edge of the COVER PLATE FRAME **(5).** Push on bottom until it snaps into place. **Fig. 10a.**

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Fig.9 (TOP SPUD FIXTURE ILLUSTRATED)

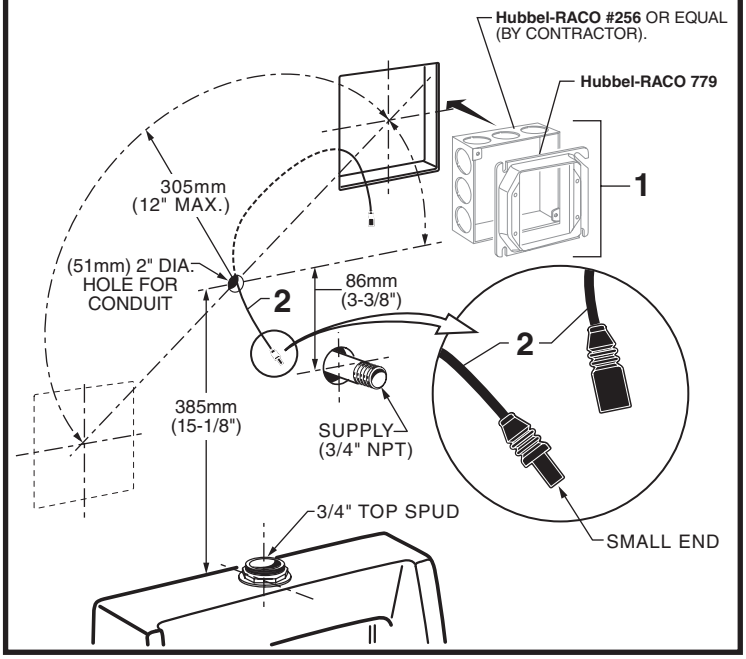


Fig.10

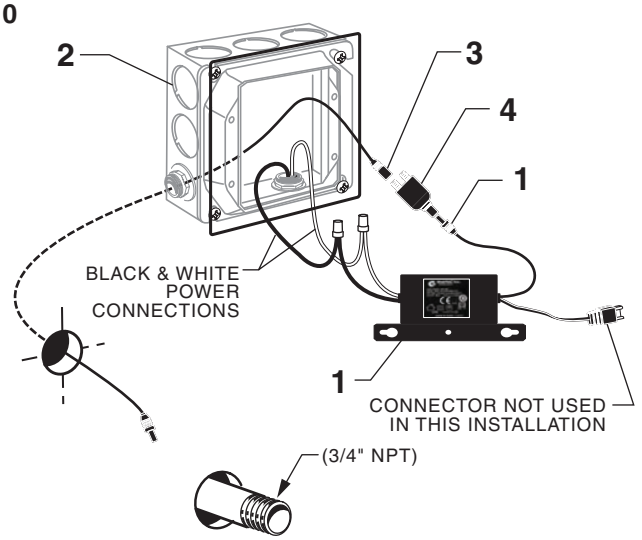
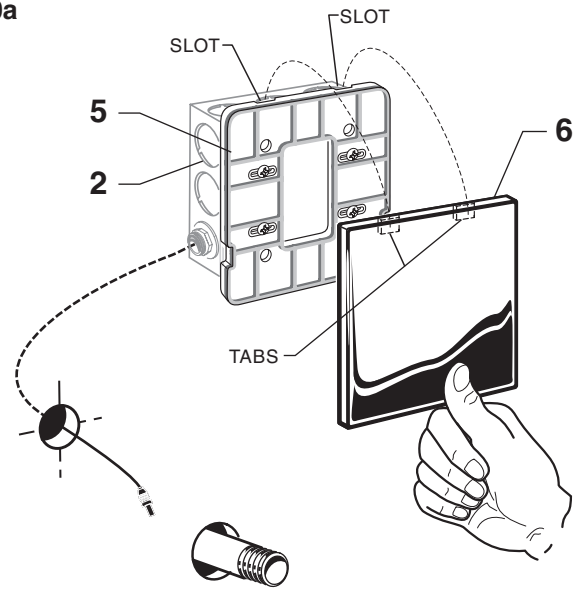
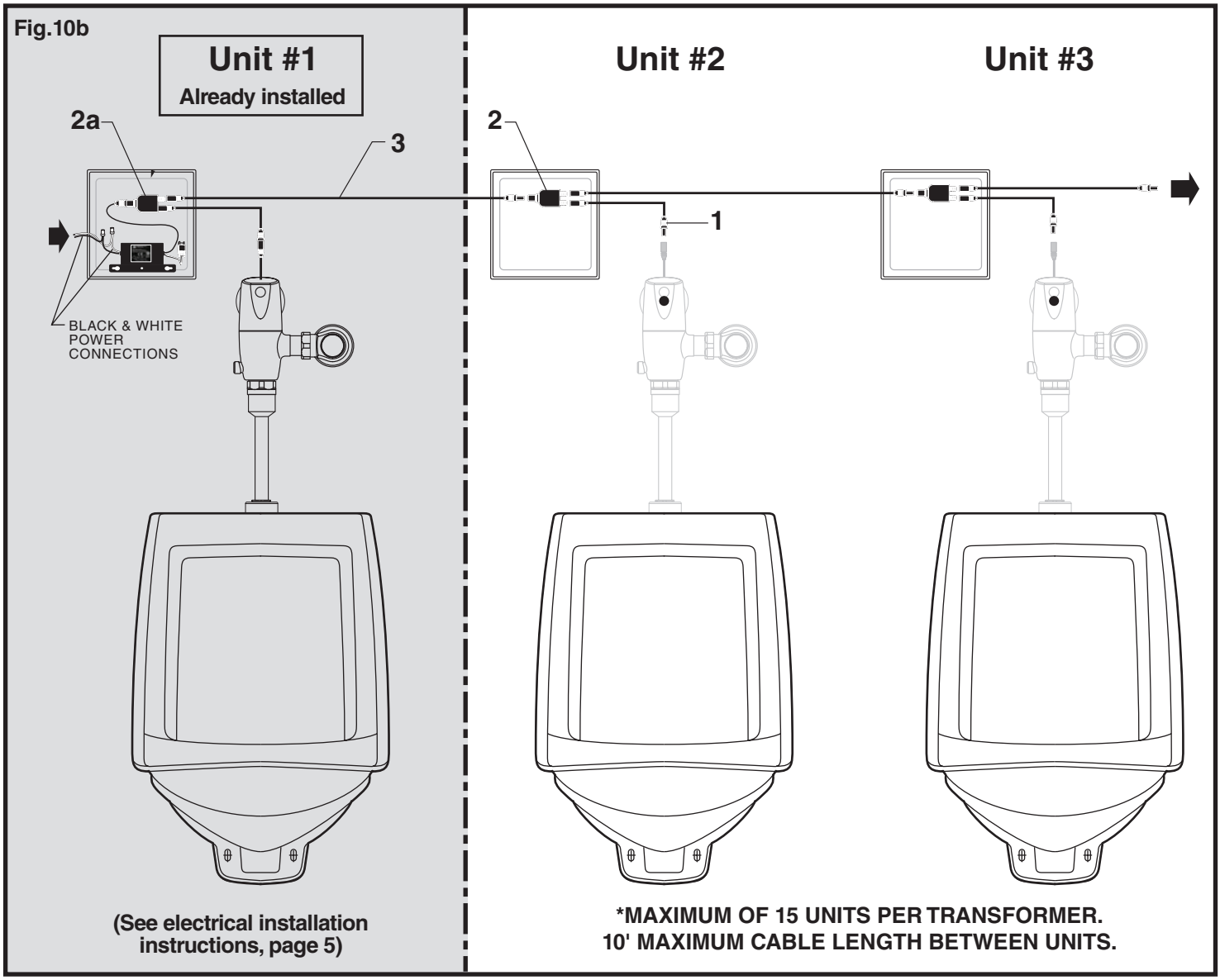


Fig.10a





8b MULTI-AC VERSION (DAISY-CHAIN); Fig. 10b

Important: ***All cover plates must be uninstalled before beginning to make daisy-chain connections. Disconnect the first unit's Y-Adapter from power supply before making daisy-chain connections.***

Note: ***For Unit #1 electrical instructions, refer to section #7 & #8a (page 5). For subsequent Units, refer to section #7 (page 5), as well as instructions below...***

1. Connect one end of the 27" EXTENSION CABLE **(1)** to one of the two available terminals on the one end of the Y-ADAPTER **(2)**.

2. Take the 10' EXTENSION **(3)** and connect one end to the single terminal of Y-ADAPTER **(2)**, and the other end to available terminal of the previous unit's Y-ADAPTER **(2a)**.

3. Repeat process for each subsequent unit.

4. Place Y-ADAPTERS **(2)** into respective electrical box.

5. Reconnect the first unit's Y-ADAPTER **(2a)** to power supply once all daisy-chain unit connections have been made.

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9 INSTALL CONDUIT, ESCUTCHEON AND SENSOR CABLE; Fig. 11

1. Remove COVER **(1)**. *See step #5 to remove the COVER* **(1)**.

2. Thread CONDUIT **(2)** into COVER **(1)** and secure by tightening LOCK NUT **(3)**.

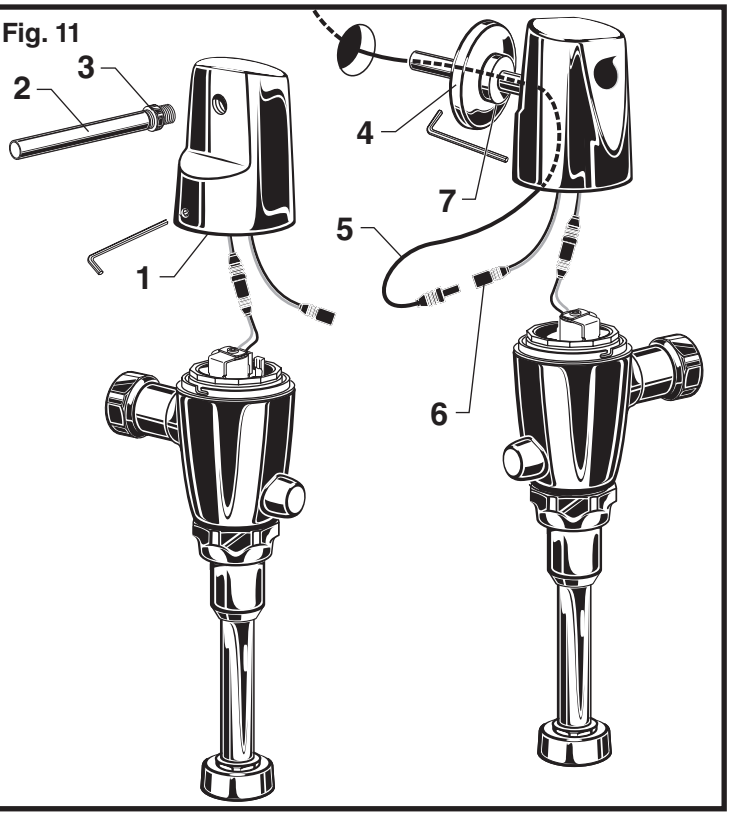
3. Slide ESCUTCHEON **(4)** onto CONDUIT **(2). Fig. 11.**

4. Feed the 27" EXTENSION CABLE **(5)** through CONDUIT **(2)** and connect to the SENSOR CABLE **(6)** from the COVER **(1)**. Tuck SENSOR CABLE **(6)** into COVER **(1).**

5. Insert CONDUIT **(2)** into hole in wall while replacing COVER **(1).** Rotate COVER **(1)** until key engages. Tighten set screw.

6. Slide ESCUTCHEON **(4)** tight against finished wall and secure by tightening SET SCREW **(7).**

Fig. 11



MAINTENANCE

A ADJUST STOP VALVE; Fig. 12

IMPORTANT: ***To avoid overflowing, the STOP VALVE (3) must never be opened to the point where the flow from the valve exceeds the flow capacity of the fixture.***

1. After installation is complete, peel off the PROTECTIVE FILM **(1)** from the sensor. Standing to one side, block the sensor with your hand for 10 seconds.

Remove your hand and listen for audible "click" from within the valve.

2. Remove STOP VALVE COVER **(2)** from STOP VALVE **(3)**. Turn on water supply 1/4 turn to 1/2 turn (CCW) and test for leaks.

Note: ***Unit may flush for approximately 5 to 10 sec. when water is first turned on. If flow persists, turn water off and repeat step #1 above.***

3. Actuate the FLUSH VALVE:
A) Cover sensor with hand for 10 seconds.

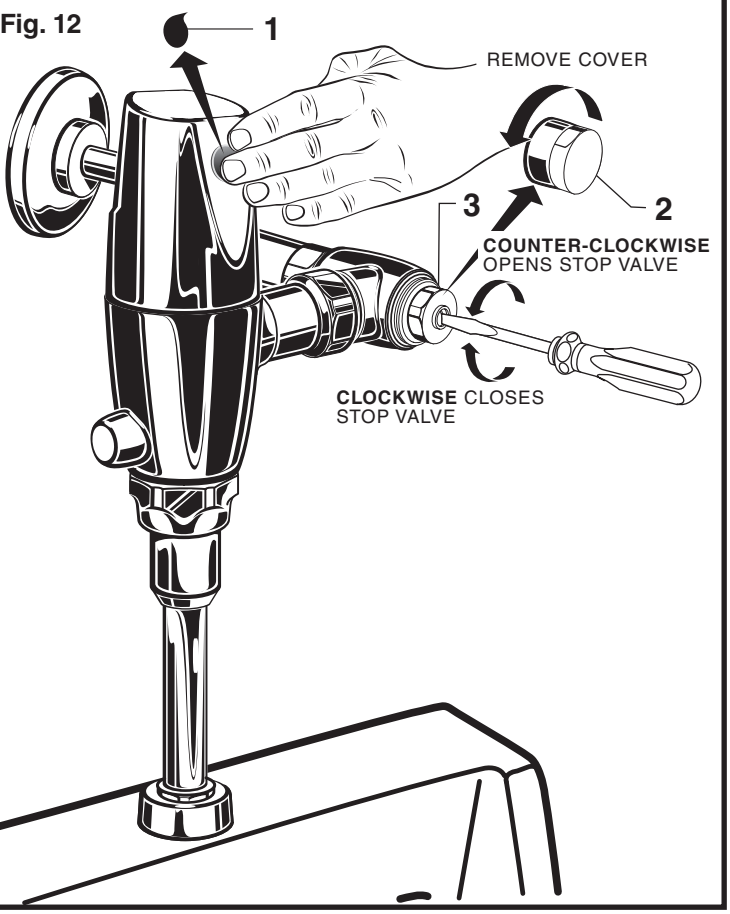
NOTE: Stand outside of sensor detection area.

B) Remove hand from sensor detection area; unit will flush in approximately 3 seconds.

4. Adjust STOP VALVE **(3)** after each flush until the stated flush volume is achieved, no splashing occurs and the fixture is properly cleansed.

5. When adjustment is complete, replace STOP VALVE COVER **(2)** and tighten to ensure vandal-resistance.

Fig. 12



B SET DETECTION RANGE (If Required) ; Fig. 13 & 14

Note: ***The detection distance is preset and ideal for most installations. Should an adjustment be required, follow the steps below.***

1. To remove the COVER PLATE **(1)**, insert WIRE KEY **(2)** (supplied) into the two holes located at the bottom of the COVER PLATE **(1)**. Push the WIRE KEY **(2)** up until it releases the bottom clips. Pull the bottom edge away and lift the COVER PLATE **(1)** off. **Fig. 13.**

2. Disconnect the 27" EXTENSION CABLE **(3)** from the Y-ADAPTER **(4)**, and reconnect.

Note: ***You have 5 seconds to begin entering the program code after power connection is made.***

3. While the SENSOR CONTROL LED **(1)** is blinking slowly, place your hand 1 to 2 in. (30-50mm.) in front of the sensor. **Fig. 14.**

4. When the LED **(1)** stops blinking and stays "ON", move your hand to the desired position from sensor and hold in place until the LED **(1)** begins to blink again.

Note: Detection Zone is 400mm - 800mm. (Factory Setting: 400mm)

5. Once the SENSOR CONTROL LED **(1)** begins to blink again, remove your hand from the detection zone. When the flashing stops, the detection distance is set.

6. Actuate the FLUSH VALVE:
A) Cover sensor with hand for 10 seconds.

NOTE: Stand outside of sensor detection area.

B) Remove hand from detection area; unit will flush in approximately 3 seconds.

Fig. 13

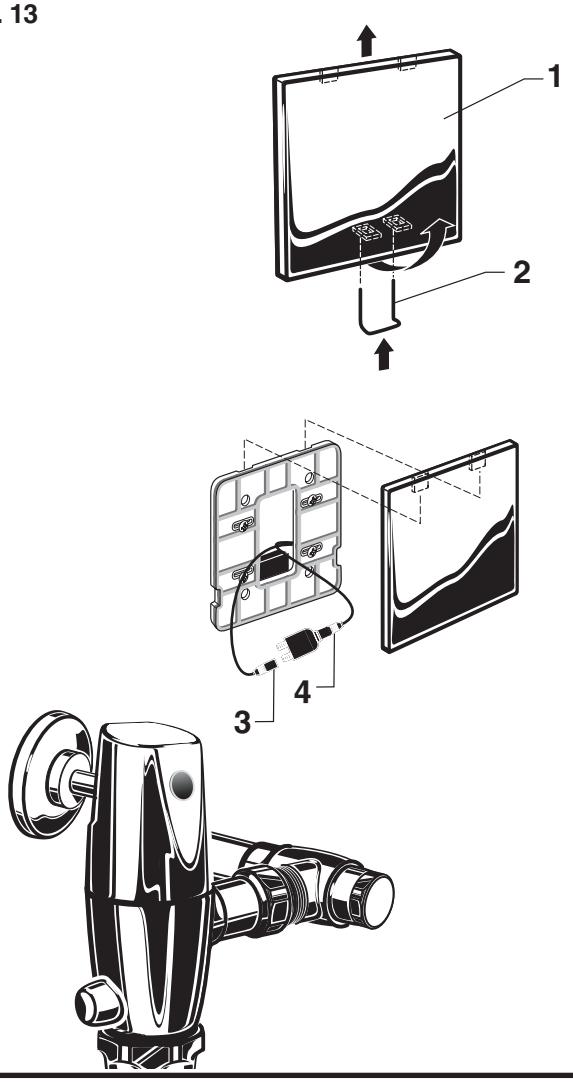
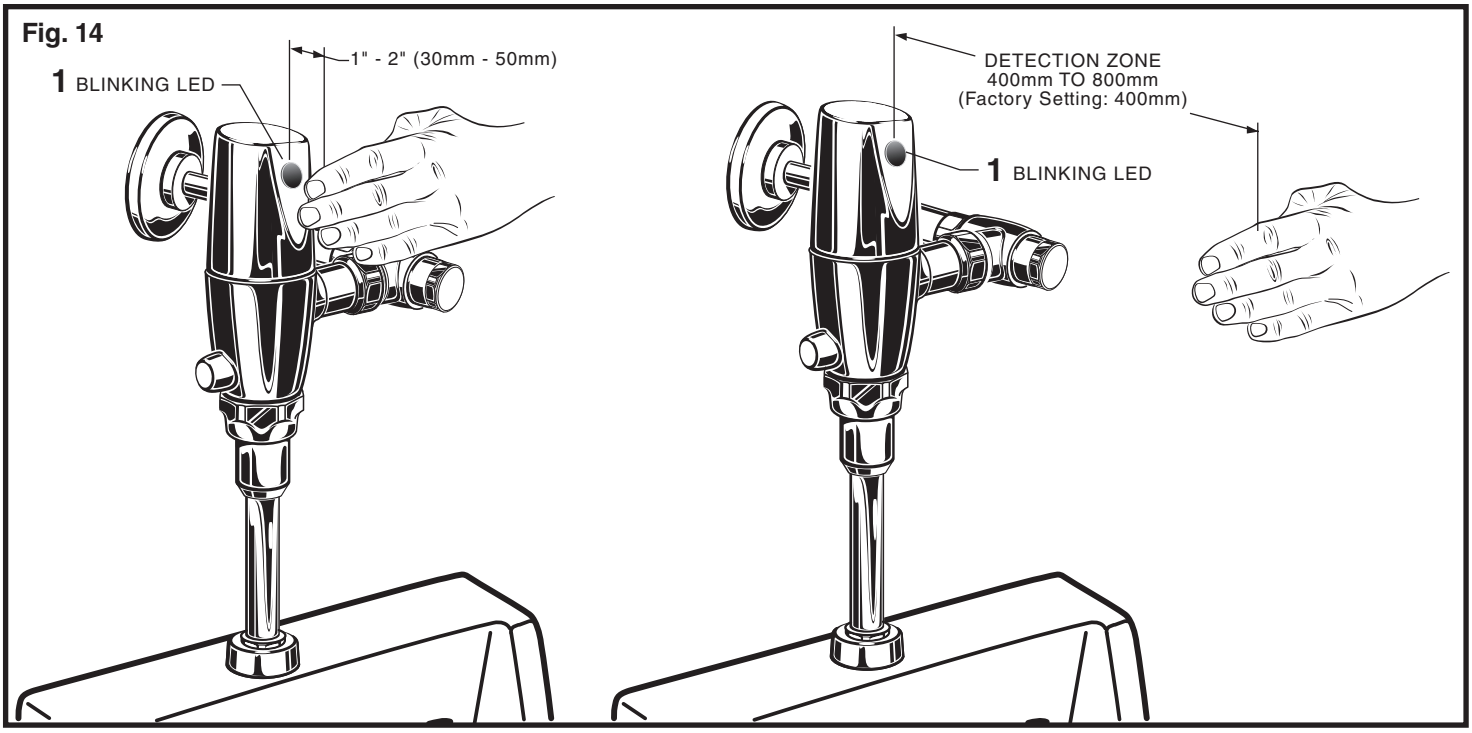


Fig. 14



TROUBLESHOOTING FLOW CHARTS

UNIT DOES NOT FUNCTION

IS ANGLE STOP OPEN?
- NO → OPEN VALVE
- YES ↓

REPEATED DOUBLE FLASH ON SENSOR?
- YES → CRITICALLY LOW BATTERY . INSTALL NEW BATTERY
- NO ↓

RECONNECT BATTERY TO SENSOR. FLASH ON SENSOR FOR 5 SECONDS?
- 1 → NO → 1 → DEAD BATTERY. INSTALL NEW BATTERY. REPEAT.
- 2 → NO → 2 → DAMAGED SENSOR WIRE. REPLACE SENSOR. (ONLY IF ABSOLUTELY NEEDED)
- YES ↓

PUSH MANUAL OVERRIDE BUTTON; WILL THE UNIT FLUSH?
- YES → DAMAGED SOLENOID. REPLACE SOLENOID
- NO ↓

REPLACE PISTON ASSEMBLY.

HOT LINE FOR HELP
For toll-free information and answers to your questions, call:
(844) CRT-TEAM / (844) 278-8326
Weekdays 8:00 a.m. to 6:00 p.m. EST
IN MEXICO 01-800-839-1200
IN CANADA 1-800-387-0369 (TORONTO 1-905-306-1093)
Weekdays 8:00 a.m. to 7:00 p.m. EST

To learn more about American Standard Selectronic® Products visit our website at: www.americanstandard-us.com or e-mail us at: CRTTEAM@americanstandard.com

UNIT WILL ONLY FLUSH MANUALLY

CLOSE ANGLE STOP AND OPEN AGAIN TO PRIME THE VALVE. DOES FLUSHING STOP?
- NO ↓

PUSH MANUAL OVERRIDE BUTTON. DOES IT RETURN TO ITS ORIGINAL POSITION FREELY?
- NO → DAMAGED MANUAL OVERRIDE BUTTON. REPLACE MANUAL OVERRIDE BUTTON
- YES ↓

RECONNECT BATTERY TO SENSOR. FLASH ON SENSOR FOR 5 SECONDS?
- 1 → NO → 1 → DEAD BATTERY. INSTALL NEW BATTERY. REPEAT.
- 2 → NO → 2 → DAMAGED SENSOR WIRES. REPLACE SENSOR. (ONLY IF ABSOLUTELY NEEDED)
- YES ↓

REPLACE PISTON & SOLENOID ASSEMBLY.

UNIT IS CONTINUOUSLY FLUSHING

REPEATED DOUBLE FLASH ON SENSOR?
- YES → CRITICALLY LOW BATETRY. INSTALL NEW BATTERY
- NO ↓

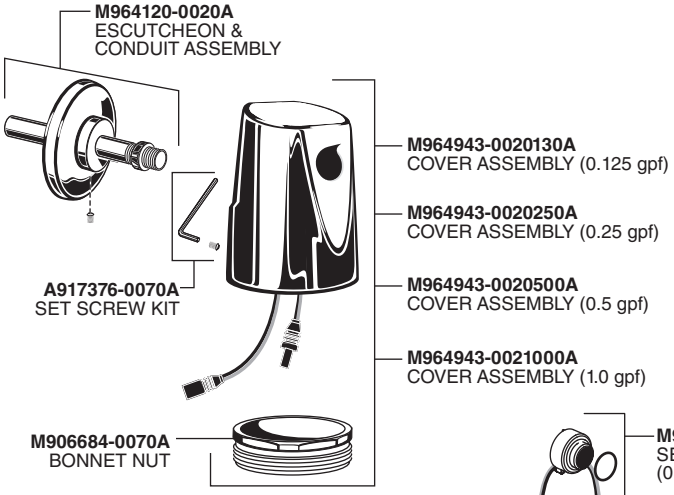
RECONNECT BATTERY TO SENSOR. FLASH ON SENSOR FOR 5 SECONDS?
- 1 → NO → 1 → DEAD BATTERY. INSTALL NEW BATTERY. REPEAT.
- 2 → NO → 2 → DAMAGED SENSOR WIRES. REPLACE SENSOR. (ONLY IF ABSOLUTELY NEEDED)
- YES ↓

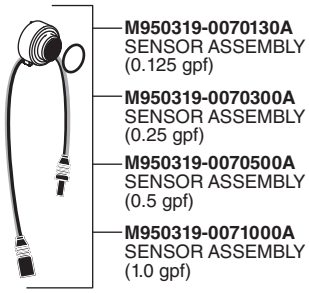
REPLACE SOLENOID.

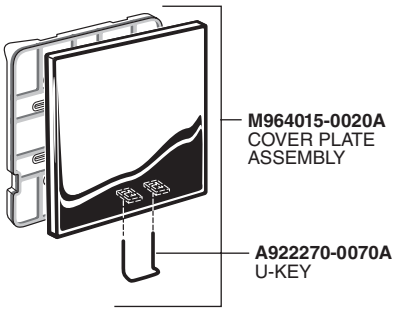
American Standard

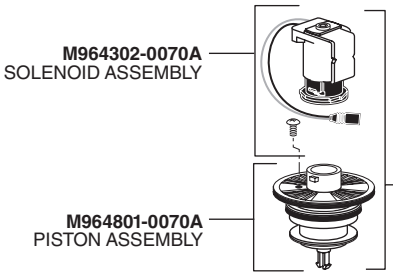
SELECTRONIC®
AC POWERED PROXIMITY EXPOSED URINAL FLUSH VALVE
0.125 0.25 0.5 & 1.0 GPF

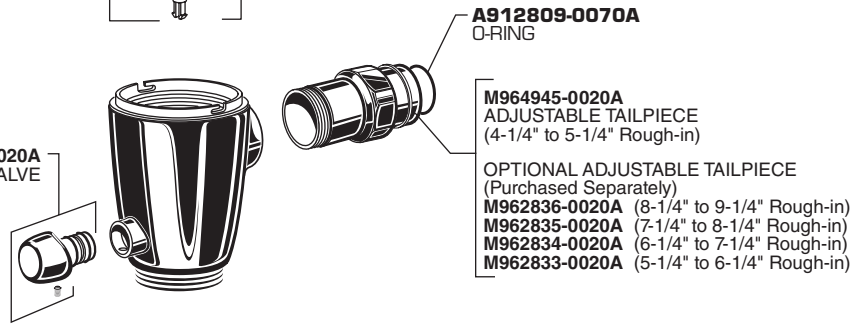
MODEL NUMBERS			
6061.101	6061.051	6061.025	6061.013
6062.101	6062.051	6062.025	6062.013

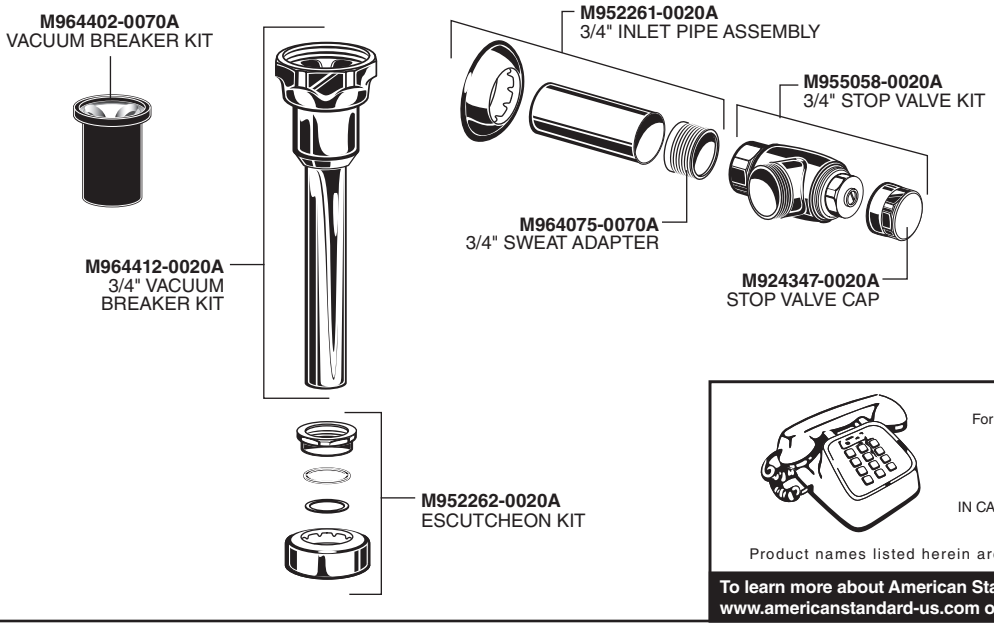






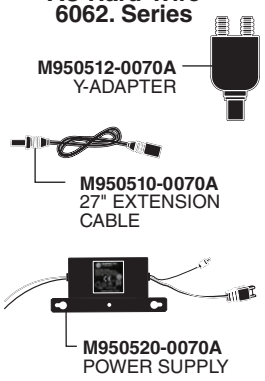




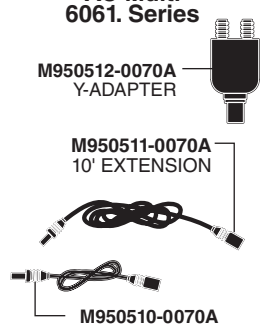


POWER SOURCE

AC Hard-Wire 6062. Series



AC Multi 6061. Series



HOT LINE FOR HELP
For toll-free information and answers to your questions, call:
(844) CRT-TEAM / (844) 278-8326
Weekdays 8:00 a.m. to 6:00 p.m. EST
IN MEXICO 01-800-839-1200
IN CANADA 1-800-387-0369 (TORONTO 1-905-306-1093)
Weekdays 8:00 a.m. to 7:00 p.m. EST

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