

MANUAL FLUSH VALVE

Exposed Flushometer
for 1-1/2" top spud Toilets

MODEL NUMBERS



6047 Series
7017 Series



FOR TOP SPUD APPLICATIONS

CLOG RESISTANT

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

OPERATING PRESSURE:

- Overall Range: 20-125 psi **
- Recommended: 25 psi (flowing) - 80 psi (static)

FLOW REQUIREMENT:

- 25gpm (94.6 L/min).
- Flush valves include sweat solder kit.

**Water pressure over 80 psi is not recommended with most plumbing fixtures

Certified to comply with:

- ASSE 1037
- ANSI/ASME A112.19.2
- ADA Compliant

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M965022 Rev. 1.9

American Standard

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

To learn more about American Standard Faucets visit our website at: www.americanstandard.com
or U.S. customer's e-mail us at: faucetsupport@americanstandard.com

For Parts, Service, Warranty or other Assistance,
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(In Toronto Area only: 1-905-3061093)

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.

1. 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. Flush Valve Assembly
2. Down Tube and Vacuum Breaker
3. Spud Coupling Nut and Washers
4. Spud Flange
5. Sweat Solder Adapter
6. Cover Tube
7. Wall Escutcheon
8. Supply Stop
9. Installation Instructions

CARE INSTRUCTIONS:

DO: SIMPLY RINSE THE PRODUCT CLEAN 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.

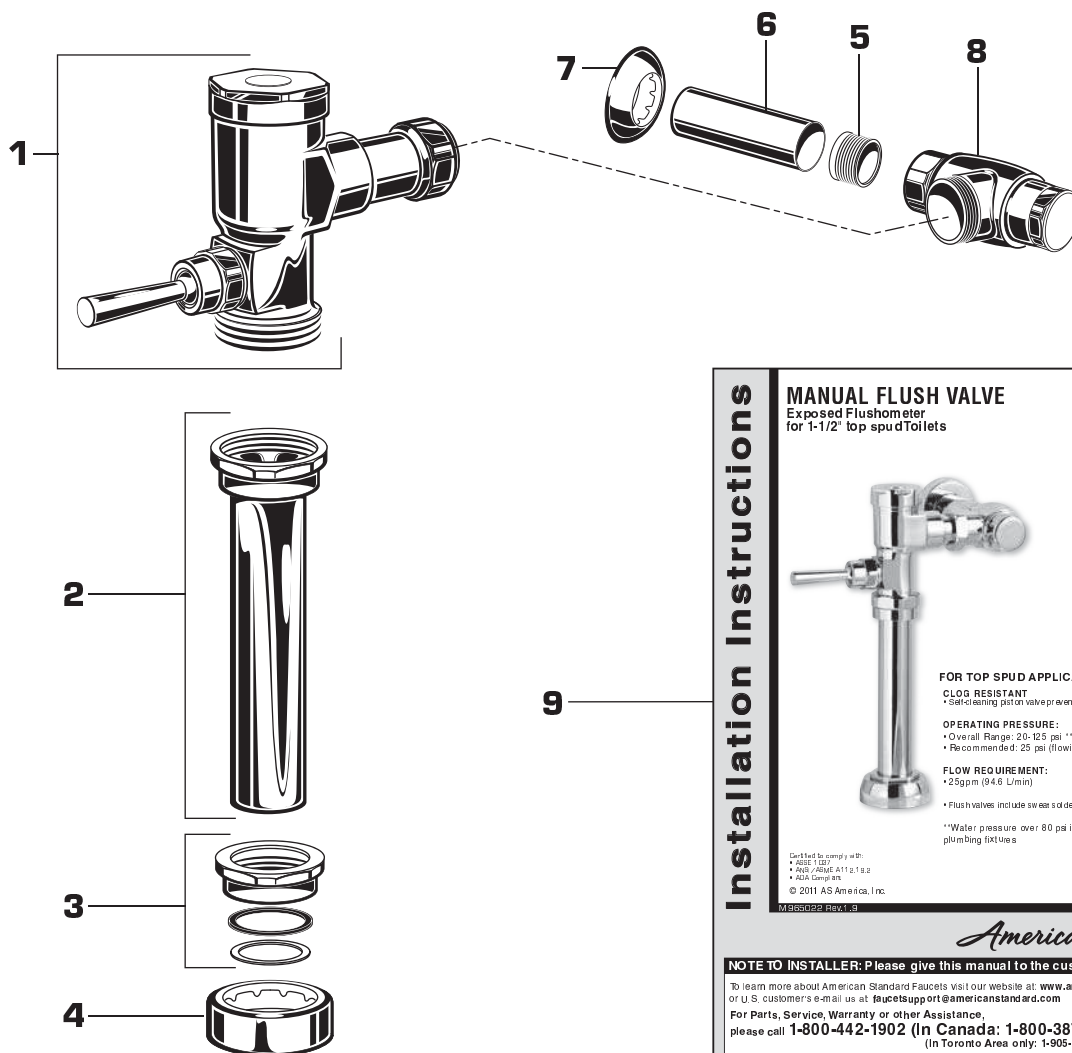
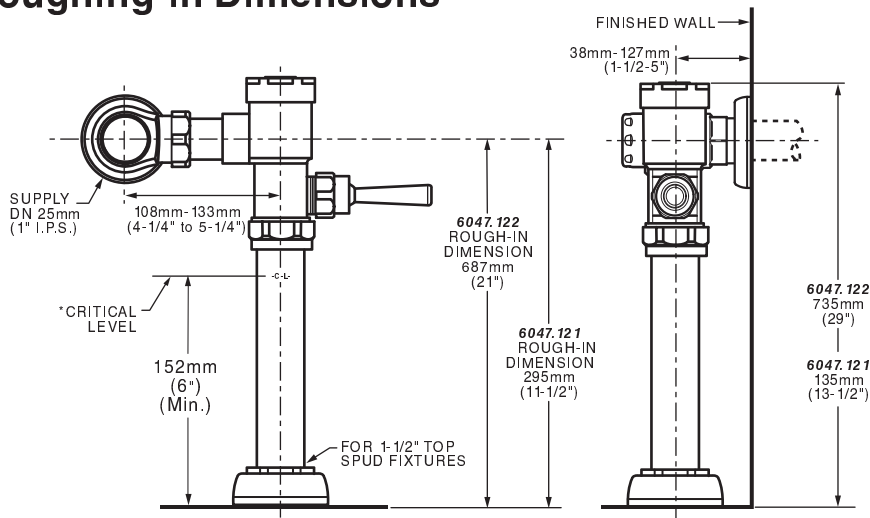


Fig. 1
Roughing-in Dimensions



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

GENERAL DESCRIPTION:

MANUAL FLUSH VALVE

Exposed Flushometer for 1-1/2" Top Spud Fixtures

Exclusive, self cleaning piston-operated flush valve.

OPERATING PRESSURE:

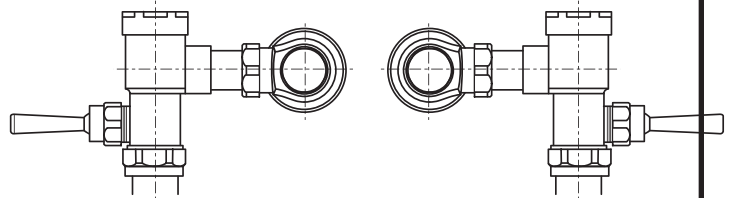
Overall Range: 20-125 psi **
Recommended: 25 psi (flowing)-
80 psi (static)

FLOW REQUIREMENT:

25gpm (94.6 L/min).

**Water pressure over 80 psi is not recommended with most plumbing fixtures

Right or Left Hand Installation

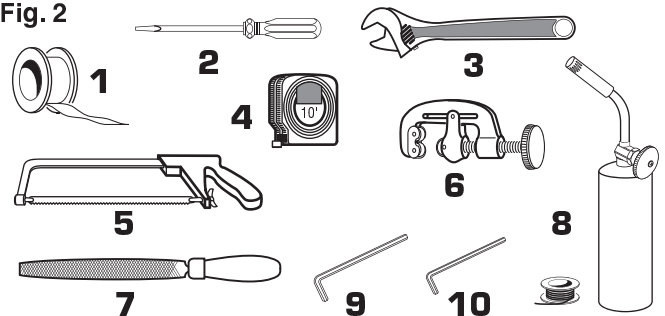


See (Section 8) for converting Flush Valve to Left Hand Installation.

RECOMMENDED TOOLS; Fig. 2

1. Teflon Tape
2. Flat Blade Screwdriver (For adjusting Supply Stop)
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. Toilet
2. Drain line
3. Water supply line

IMPORTANT:

- All plumbing must be installed in accordance with applicable codes and regulations.
- 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 5). Dirt and debris can cause flush valve to run continuously.

- With the exception of Supply Stop 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.

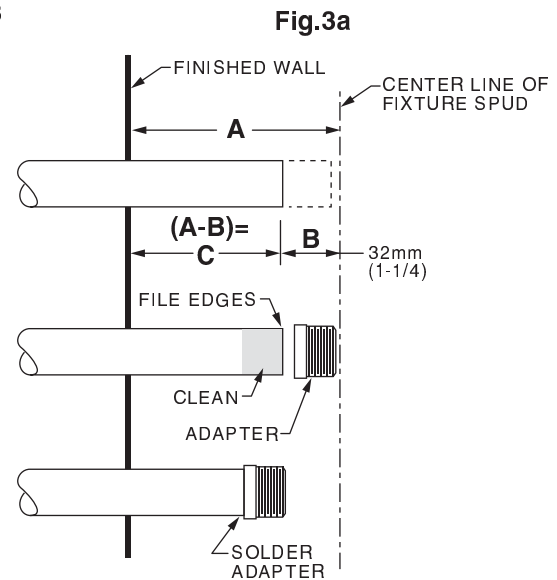
1 INSTALL SWEAT SOLDER ADAPTER; Fig. 3

CAUTION Turn water supplies off before beginning

Note: *Install Optional Sweat Solder Adapter (Supplied) for copper pipe supply line. Fig. 3.*

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 on until it is seated against the internal stop. Sweat the Adapter to the pipe.

Fig.3



2 INSTALL COVER TUBE, WALL ESCUTCHEON and SUPPLY STOP; 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. Fig. 4a.
2. Push the COVER TUBE (1) into the WALL ESCUTCHEON (2). Slide both onto the SUPPLY PIPE (3). Fig. 4b.
3. Push the COVER TUBE (1) in to expose the threads of the supply pipe. Fig. 4c. With a wrench thread the SUPPLY STOP (4) onto the SUPPLY PIPE (3). Align and tighten. Fig. 4c.
4. Pull COVER TUBE (1) against SUPPLY STOP (4) and push WALL ESCUTCHEON (2) against finished wall.

Fig. 4

Fig. 4a

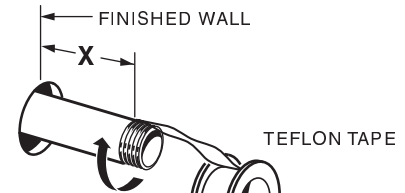


Fig. 4b

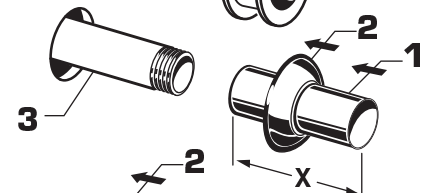
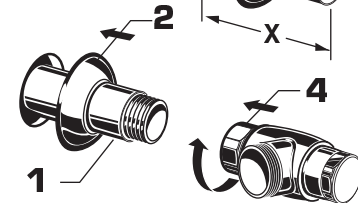


Fig. 4c

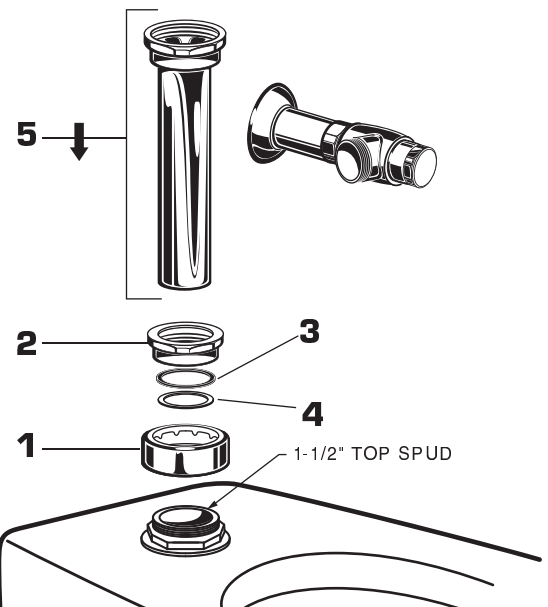


3 INSTALL DOWN TUBE AND VACUUM BREAKER; Fig. 5

1. Place the SPUD FLANGE (1) over the spud on the Fixture.
2. Thread SPUD COUPLING NUT (2) onto Spud. Make sure SEAL WASHER (3) and FRICTION WASHER (4) are installed. Do not tighten fully.
3. Insert the DOWN TUBE (5) into the SPUD COUPLING NUT (2) and push it down.

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

Fig. 5



4 INSTALL FLUSH VALVE;

Fig. 6a & 6b

1. As shown in **Fig. 6a**, insert the side INLET FLANGE (1) on the FLUSH VALVE (2) into the SUPPLY STOP (3). Lubricate the INLET FLANGE O-RING (4) with water if necessary. Lightly tighten COUPLING NUT (5). **Fig. 6a.** **Important: Do not use lubricants (other than water) or any type of thread sealing paste or tape.**

2. Align the FLUSH VALVE (2) (**Fig. 6b**) directly above the DOWN TUBE (7) and VACUUM BREAKER COUPLING NUT (6).

Note: There is a $\pm 13\text{mm}$, ($\pm 1/2$) tolerance for the 121mm (4-3/4) dimension. Fig. 6b.

3. Pull the DOWN TUBE (7) up to meet the threaded FLUSH VALVE CONNECTION (8) and hand tighten the VACUUM BREAKER COUPLING NUT (6). Align all components of the flush valve assembly. **Fig. 6b.**

4. Lightly tighten the COUPLING NUT (5) connection first, then the VACUUM BREAKER COUPLING NUT (6) and finally the SPUD COUPLING NUT (9). Once alligned correctly, use a wrench to tighten couplings to make water tight connections. **Fig. 6b.**

Fig. 6a

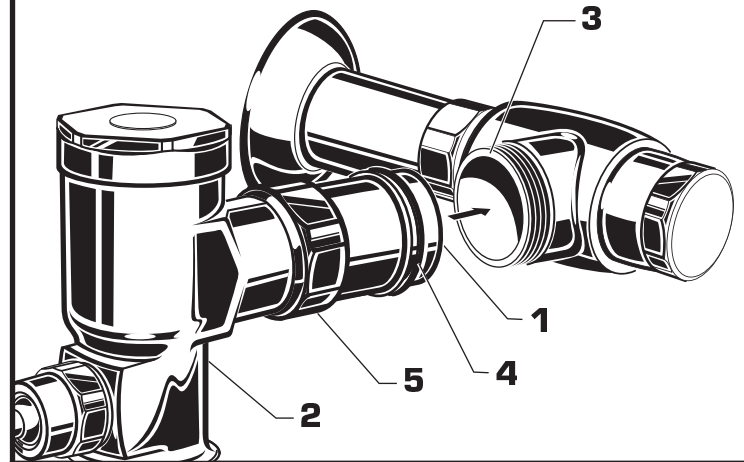
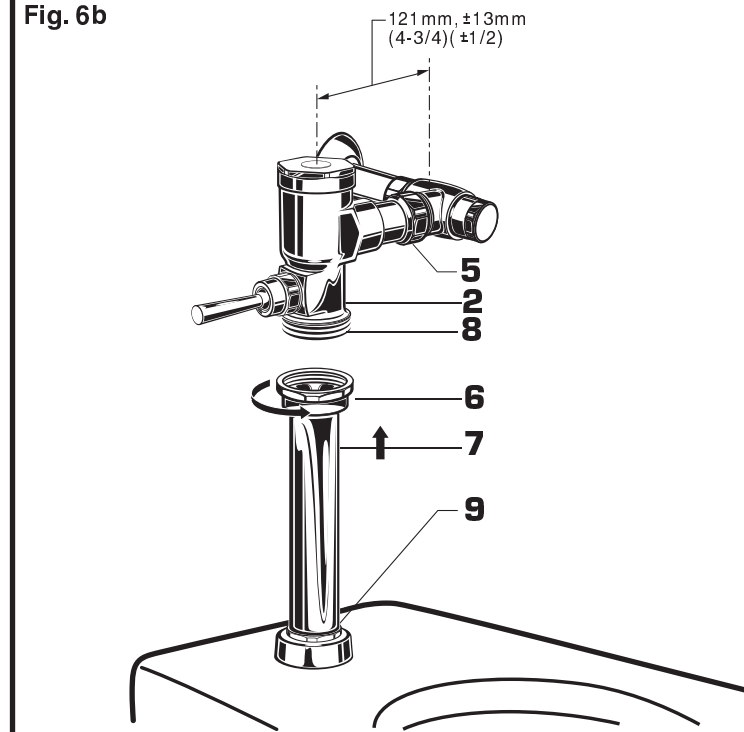


Fig. 6b



5 FLUSH OUT SUPPLY LINES; Fig. 7

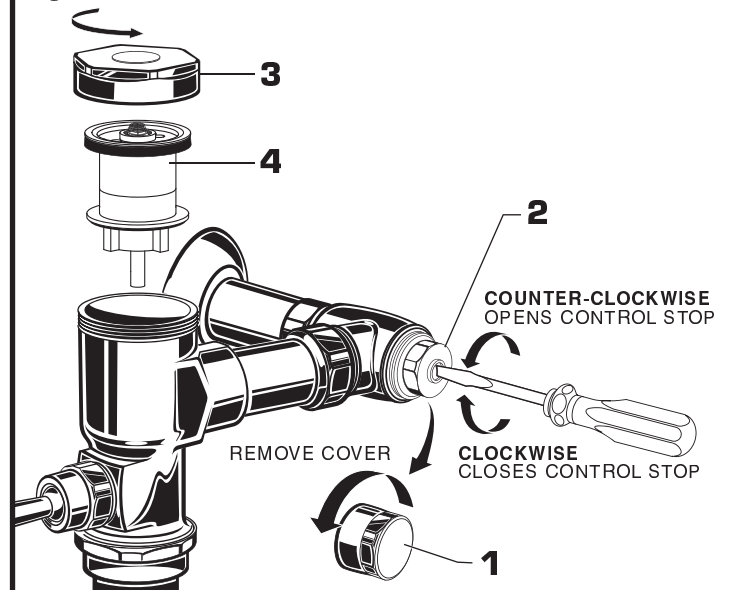
1. Remove COVER (1) from SUPPLY STOP (2). Make sure supply stop is closed.

2. Remove FLUSH VALVE CAP (3). Pull out PISTON (4). Replace FLUSH VALVE CAP (3) and tighten.

2. With a flat blade screwdriver open SUPPLY STOP (2) to flush line of any debris or sediment.

4. Close SUPPLY STOP (2). Remove FLUSH VALVE CAP (3). Replace PISTON (4). Replace FLUSH VALVE CAP (3) and tighten.

Fig. 7



6 ADJUST SUPPLY STOP; Fig. 8

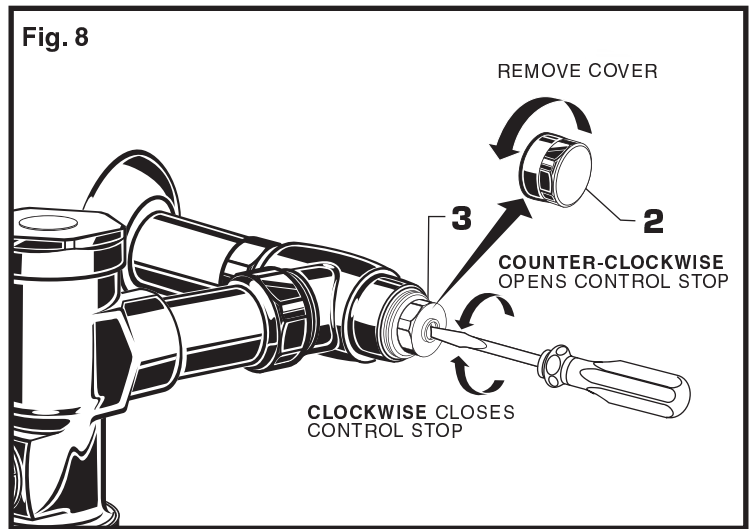
IMPORTANT: To avoid overflowing, the **SUPPLY STOP (3)** must never be opened to the point where the flow from the valve exceeds the flow capacity of the fixture. The fixture and drain must be able to handle a continuous flow in case of a flush valve failure. Valve is designed to provide stated flush volume with a 25 GPM flow rate.

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

2. Actuate the FLUSH VALVE by pulling handle down.

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

4. When adjustment is complete, replace COVER (2) and tighten to ensure vandal-resistance.



7 HOW TO RETROFIT OUR VALVE; Fig. 9

(Replaces Industry Standard Manual and Electronic Valves)

Note: In most Retrofits the wall escutcheon, supply stop, cover tube and vacuum breaker do not have to be replaced. If these items do need replacement they must be purchased separately or order the complete flush valve assembly from American Standard.

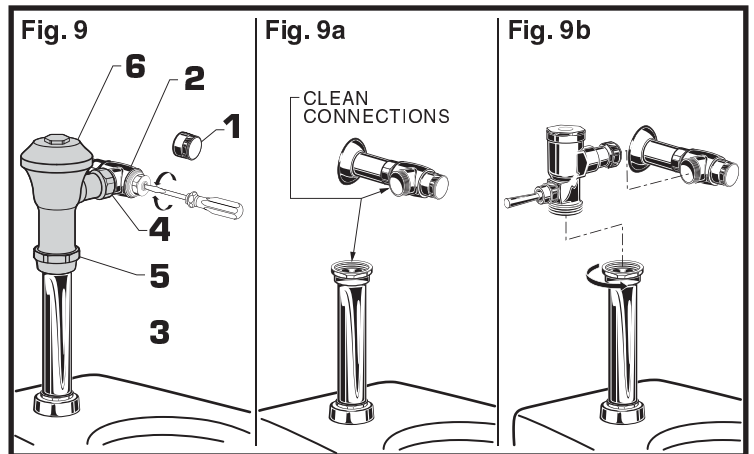
1. Remove COVER (1) from SUPPLY STOP (2) if installed. **Fig. 9.**

2. Turn water supply off. **Fig. 9.**

3. Loosen SPUD COUPLING NUT (3). Unthread COUPLING NUT (4) and VACUUM BREAKER COUPLING NUT (5). Remove FLUSH VALVE (6). **Fig. 9a.**

4. Clean all threaded connections before installing the new flush valve. **Fig. 9a.**

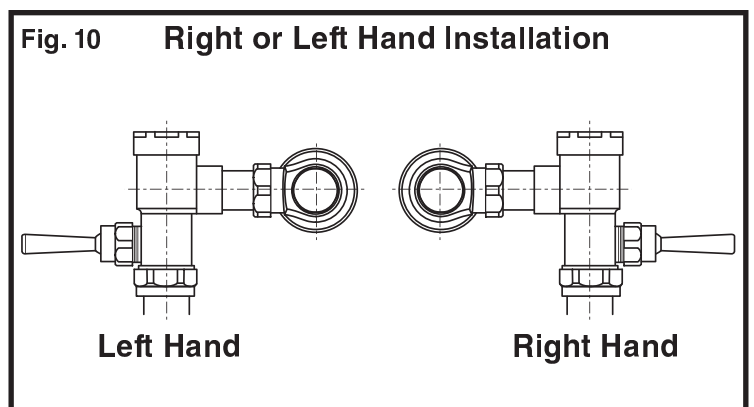
5. Refer to **Sections 4, 5 and 6** to complete the retrofit installation. **Fig. 9b.**



8 LEFT OR RIGHT HAND INSTALLATION; Fig. 10

1. The FLUSH VALVE can be installed either as a right or left hand installation.

2. Orientate the FLUSH VALVE as shown in Fig. 10 to desired position for a left or right hand installation.



MANUAL FLUSH VALVE

Exposed Flushometer
for Top Spud Toilets

MODEL NUMBERS

6047 Series
7017 Series

M962921-0070A
CAP SEAL

M962938-0070A
CUP SEAL

M964905K-0071100A (MODEL 6047.111, 7017.111)
M964905A-0071600A (MODEL 6047.161, 7017.161)
M964905B-0071280A (MODEL 6047.121, 7017.121)
PISTON ASSEMBLY

M962918-0020A
HANDLE ASSEMBLY

OPTIONAL ADJUSTABLE TAILPIECE
(Purchased Separately)

M962836-0020A (8-1/4" to 9-1/4" Rough-in)

M962835-0020A (7-1/4" to 8-1/4" Rough-in)

M962834-0020A (6-1/4" to 7-1/4" Rough-in)

M962833-0020A (5-1/4" to 6-1/4" Rough-in)

M962920-0020A
ADJUSTABLE TAILPIECE
(4-1/4" to 5-1/4" Rough-in)

M964402-0070A
VACUUM BREAKER
REPAIR KIT

M962928-0020A
STAMPED FLANGE

M962927-0020A
COVER TUBE

M962926-0070A
SWEAT ADAPTER

A955056-0020A
1" SUPPLY STOP

A955057-0020A
INLET PIPE ASSEMBLY

M924347-0020A
SUPPLY STOP CAP

M964411-0020A
VACUUM BREAKER
ASSEMBLY 11-1/2"
(220mm) ROUGH-IN

M964413-0020A
VACUUM BREAKER
ASSEMBLY 27"
(610mm) ROUGH-IN

M952269-0020A
ESCUTCHEON KIT



HOT LINE FOR HELP
For toll-free information and answers to your questions, call:
1 (800) 442-1902
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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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AS AMERICA, INC. ONE YEAR LIMITED WARRANTY FOR COMMERCIAL FIXTURES

If inspection of this AS America, Inc. ("American Standard®") plumbing product, within one year after its initial purchase, confirms that it is defective in materials or workmanship, American Standard® will repair or, at its option, exchange the product for a similar model.

If the commercial fixture is purchased with a matching American Standard flush valve, American Standard will extend the limited commercial warranty for the commercial fixture to five years. Proof of purchase is required and must show that the commercial fixture and flush valve are purchased together and in the same proof of purchase document.

This limited warranty applies only to the original purchaser and installation of these products. In the event of a limited warranty claim, proof of purchase will be required – **save sales receipt**.

This limited warranty does not apply to local building code compliance. Since local building codes vary considerably, the purchaser of this product should check with a local building or plumbing contractor to insure local code compliance before installation.

This limited warranty is void if the product has been moved from its initial place of installation; if it has been subjected to faulty maintenance, abuse, misuse, accident or other damages; if it was not installed in accordance with American Standard®'s instructions; or if it has been modified in a manner inconsistent with the product as shipped by American Standard®.

American Standard®'s option to repair or exchange the product under this limited warranty does not cover any labor or other costs of removal or installation. **IN NO EVENT WILL AMERICAN STANDARD® BE LIABLE FOR THE COST OF REPAIR OR REPLACEMENT OF ANY INSTALLATION MATERIALS, INCLUDING BUT NOT LIMITED TO, TILES, MARBLE, ETC.** American Standard® will not be responsible for any other incidental or consequential damages attributable to a product defect or to the repair or exchange of a defective product, all of which are expressly excluded from this limited warranty. This limited warranty does not cover any liability for consequential or incidental damages, all of which are hereby expressly disclaimed, or the extension beyond the duration of this limited warranty of any implied limited warranties, including those of merchantability or fitness for an intended purpose. (Some states or provinces do not allow the exclusion or limitation of implied limited warranties, so this exclusion may not apply to you.)

This limited warranty gives you specific legal rights. You may have other statutory rights that vary from state to state or from province to province, in which case this limited warranty does not affect such statutory rights.

AS AMERICA, INC. LIMITED WARRANTY FOR CHAMPION® PRO AND CHAMPION®4 TOILETS

This toilet comes with a limited lifetime warranty on chinaware, a limited 10 year warranty on all mechanical parts of the toilet and a limited 1 year warranty on the toilet seat if included with product. If inspection of this AS America, Inc. ("American Standard®") plumbing product, inclusive of the chinaware and all mechanical parts, confirms that it is defective in materials or workmanship, American Standard® will repair or, at its option, exchange the product for the same or a similar model.

This limited warranty applies only to the original non-commercial purchaser and installation of the products. In the event of a limited warranty claim, proof of purchase will be required – **save sales receipt**.

For this warranty to become effective, the warranty registration process must be completed via the internet or telephone per the warranty registration instructions.

This limited warranty does not apply to commercial installations. The warranty for commercial installations is 1 year on chinaware and mechanical parts and 1 year on the toilet seat if included with product.

This warranty **does not apply** to local building code compliance. Since local building codes vary considerably, the purchaser of the product should check with a local building or plumbing contractor to ensure local code compliance before installation.

This warranty **will be void** if the product has been moved from its initial place of installation; if it has been subjected to faulty maintenance, abuse, misuse, accident or other damage; if it was not installed in accordance with American Standard®'s instructions; or if it has been modified in a manner inconsistent with the product as shipped by American Standard®.

WARNING: This warranty **DOES NOT COVER** any damages caused by the use of in-tank cleaners. These products can seriously corrode the fittings in the tank. This damage can cause leakage and property damage. **American Standard® will not be responsible or liable for any damage caused by the use of in-tank cleaners.**

American Standard®'s option to repair or exchange the product under this warranty does not cover any labor or other costs of removal or installation including any costs of any surrounding material such as tile or marble. **American Standard® is not responsible for any other incidental or consequential damages attributed to a product defect or to the repair or exchange of a defective product, all of which are expressly excluded from this warranty.** (Some states or provinces do not allow the exclusion or limitation of implied warranties, so this exclusion may not apply to you.)

This warranty gives you specific rights. You may have other statutory rights that may vary from state to state or province to province, in which case this warranty does not affect such statutory rights.