Preparing the Fill Valve for Installation

Before flush valve installation, ensure overflow pipe and water level of tank are correctly set.

1. THE TOP OF OVERFLOW PIPE (A) must be cut 1” below bottom of TANK LEVER HOLE (B). Remove tank to bowl bolts and locknut first. Insert flush valve into tank hole. Mark the flush valve for future reference.

2. WATER LEVEL (C) is set to top of overflow pipe (Fluidmaster recommends 1”).

Code Compliance helps protect your home & drinking water supply. Code Compliance helps protect your home & drinking water supply. Code Compliance helps protect your home & drinking water supply.

Installing New Fill Valve

A. Place fill valve in tank.
B. Align fill valve nip to face overflow pipe.
C. Press down on shank from inside until bottoming lockout.
D. Hand-tighten only – DO NOT OVERTIGHTEN!

Installing Flush Valve

A. Insert flush valve into tank hole. Position overflow pipe toward back of tank (Do not cover bolt holes of tank).
B. Holding flush valve in place, thread large brass bolts onto threads of flush valve. Hand tighten lockout and use large adjustable pliers to go 1/2 turn beyond hand tight. Do not overtighten.
C. Place tank to bowl gasket on bottom of flush valve lockout. Gasket should cover lockout.
D. NOTE: If you have a Gerber or Kohler two piece toilet, it is recommended you use a different tank to bowl gasket. Gerber: Use an extra thick Gerber gasket. Kohler: Use a triangular Kohler gasket (both Gerber and Kohler gaskets included).

Installing Toilet Bolts

1. Place one rubber washer on each tank bolt.
2. Place tank bolts through bottom holes of tank.
3. For reinforced connection: Under tank, place metal washers and thin hex nuts on thin washers on thin hex nuts and hand tighten to toilet tank. 

Installing Lever & Flapper Chain

A. Remove fill valve from tank.
B. Remove water supply coupling nut. Remove locknut from under tank.
C. Unhook flapper chain from tank lever.
D. Turn water on.
E. Touch and rotate flush valve and listen for water flow.
F. Remove and replace washers and washers on thin hex nuts and hand tighten to toilet tank. 

Installing New Parts

A. Position fill valve in tank – DO NOT FULLY INSTALL.
B. Set top of fill valve 3” above overflow (SIP).
C. Fill Valve Height Adjustment – If Necessary:
   A. DO NOT MOVE LOCK RING.
   B. Increase height – twist lower shank counter clockwise.
   C. Decrease height – twist lower shank clockwise.
D. Critical Level Mark (C.L Mark) MUST be positioned 1” above top of overflow pipe – Cut tube as necessary.
E. Install or cut off tube (“OUT”) with refill clip to the overflow pipe. Ensure refill clip is secure in the top groove of the bladder cartridge.
F. Place refill tube over flush valve – Cut tube as necessary.
G. Place tank to bowl gasket on bottom of flush valve lockout. Gasket should cover lockout.
H. Place “O” ring is secure in the top groove of the bladder cartridge.
I. Place valve in position. Tank should be level.
J. Squeeze tube clamps and lips to ends of tube and release.
K. Refill tube run down overflow pipe may cause significant water waste.

Installing Flush’n Sparkle® Self-Cleaning Toilet System (400AFSC only)

A. If you are installing the Flush’n Sparkle® Self-Cleaning Toilet System, hang the cartridge holder inside the tank as shown. Attach long tube (“OUT”) with refill clip to the overflow pipe. Ensure refill clip is secure in the top groove of the bladder cartridge. Position overflow pipe toward back of tank (“IN”).
B. Ease into position. The new lever will need to be bent like the lever that was just removed. To bend lever, bend 2 inches after 90 degree elbow. Do not bend arm quicky or bend and back repeatedly.
C. Push lever through tank to flush. Slide lever to flush. Lock new flush valve with arm at 90° of nut facing tank lever.

Installing Lever & Flapper Chain

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E. Touch and rotate flush valve and listen for water flow.
F. Remove and replace washers and washers on thin hex nuts and hand tighten to toilet tank. 

Adjusting Tank Water Level

A. When adjusting float cup, flush valve locknut may not be tight enough. Check and readjust.
B. Turn water on.
C. Turn water level adjustment screw to set float cup to desired water level. If water level is too high, turn screw clockwise. If water level is too low, turn screw counterclockwise.
D. Unlocking at Belts Anchor on Base of Up Tank

Note: For any tank with water outlet on the side (See Fig. 8). Please ensure all nuts are tightened. Tighten belts further until tank and flush valves do not rock and leak.

Troubleshooting

IF FILL VALVE DOES NOT TURN ON, WILL NOT TURN OFF, OR WILL NOT REFILL THE TANK AFTER THE FLUSH

A. Turn water off.
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Removing Old Parts

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Replacing Valve Cap

A. Turn upper portion of flapper on right to adjust performance.
B. Clockwise for greater flush volume.
C. Counterclockwise for lower flush volume.

Adjusting the PerforMAX® High Performance Lever

A. Turn nut portion of flapper left or right to adjust performance.
B. Clockwise for greater flush volume.
C. Counterclockwise for lower flush volume.

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